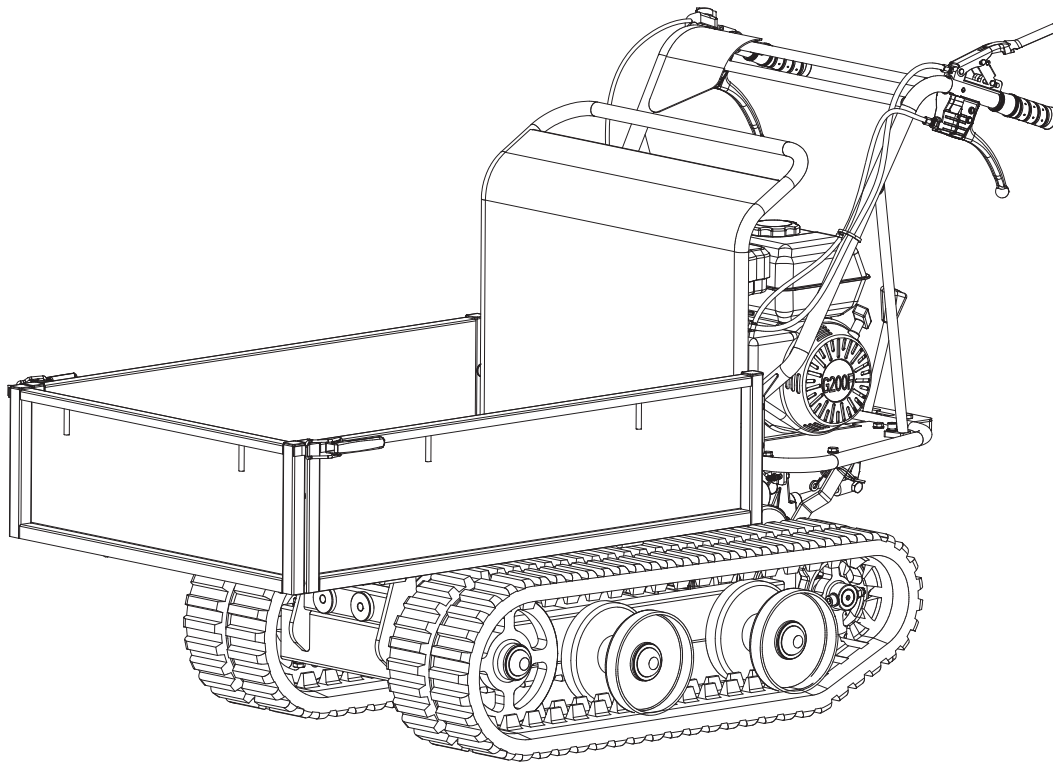


# Mini Dumper Catalogue

QTP300B.....	02
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# Mini Tracked Dumper

## Operator's Manual

**MODEL NUMBER :**      ☐ QTP300B

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**



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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.	QTP300B	
Engine	196cc, 6.5HP	
Transmission	3F+1R	
Load Capacity	300 kg	
Box Length	907-1040 mm	
Box Width	600-860 mm	
Box Depth	204 mm	
Track Width	180 mm	
Sound power level	101 dB(A) $k=2$ dB(A)	
Sound pressure level	81.5 dB(A) $k=2$ dB(A)	
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
	Right	11.3 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
Weight	178 kg	

## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper  
with the protection and safety  
devices.



No smoking, sparks, or flames



Do not touch parts that are hot  
from operation. Serious burns  
may result.



Keep your hands clear from all  
rotating parts.



Never start or run the engine  
inside a closed area.



Do not operate on slopes with  
angle over 20° or tip loading at  
an inclined position.



Be aware, objects may be  
thrown while in use.



The exhaust fumes are dangerous,  
containing carbon monoxide.  
Staying in the environment can  
lead to unconsciousness and  
death.



Always turn off the engine  
before starting maintenance.



Keep children and bystanders  
off and away.

GB

## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service

on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

## Specific Safety Rules

Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

**Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.**

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

Never operate the machine on slopes where angle is over 20°.

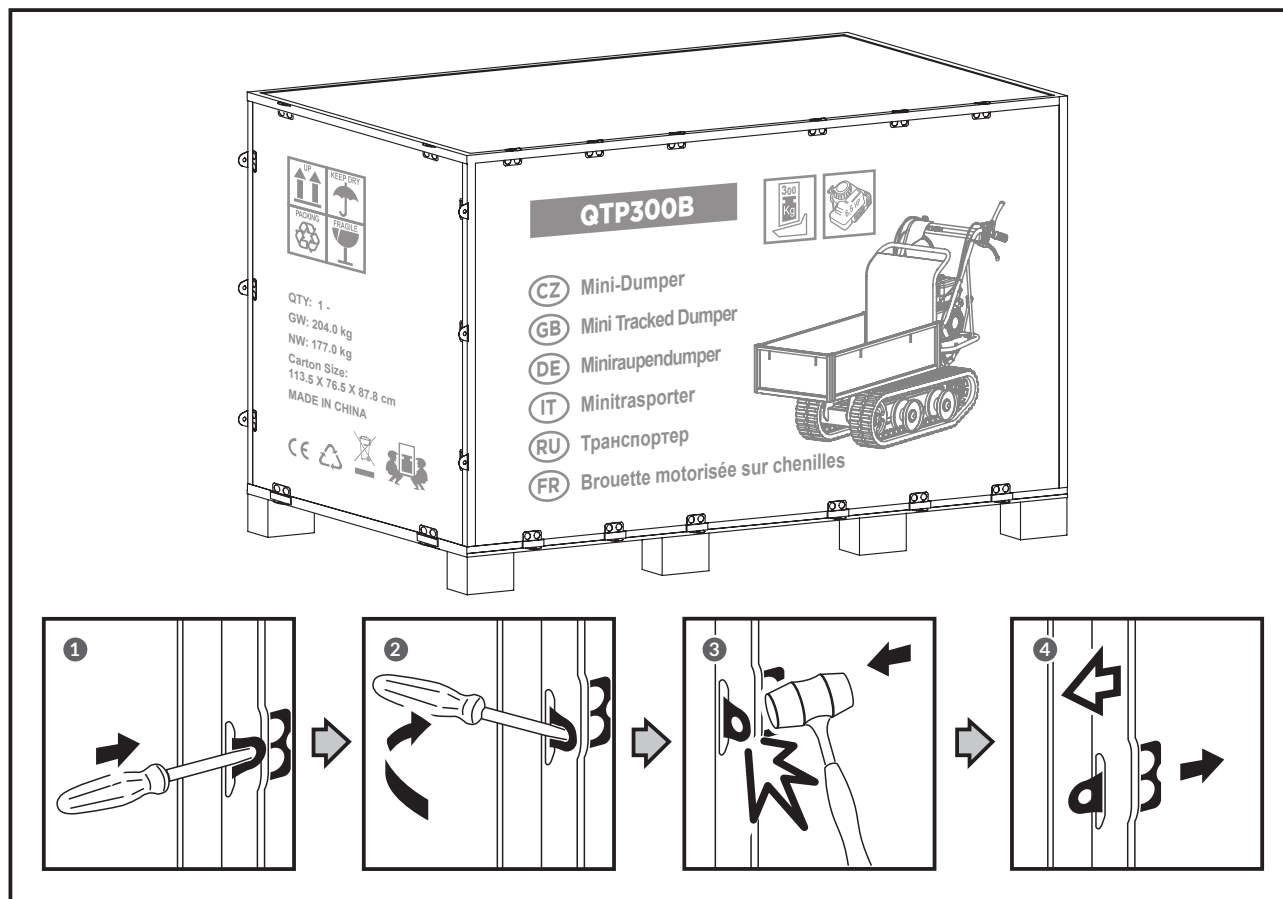
When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.

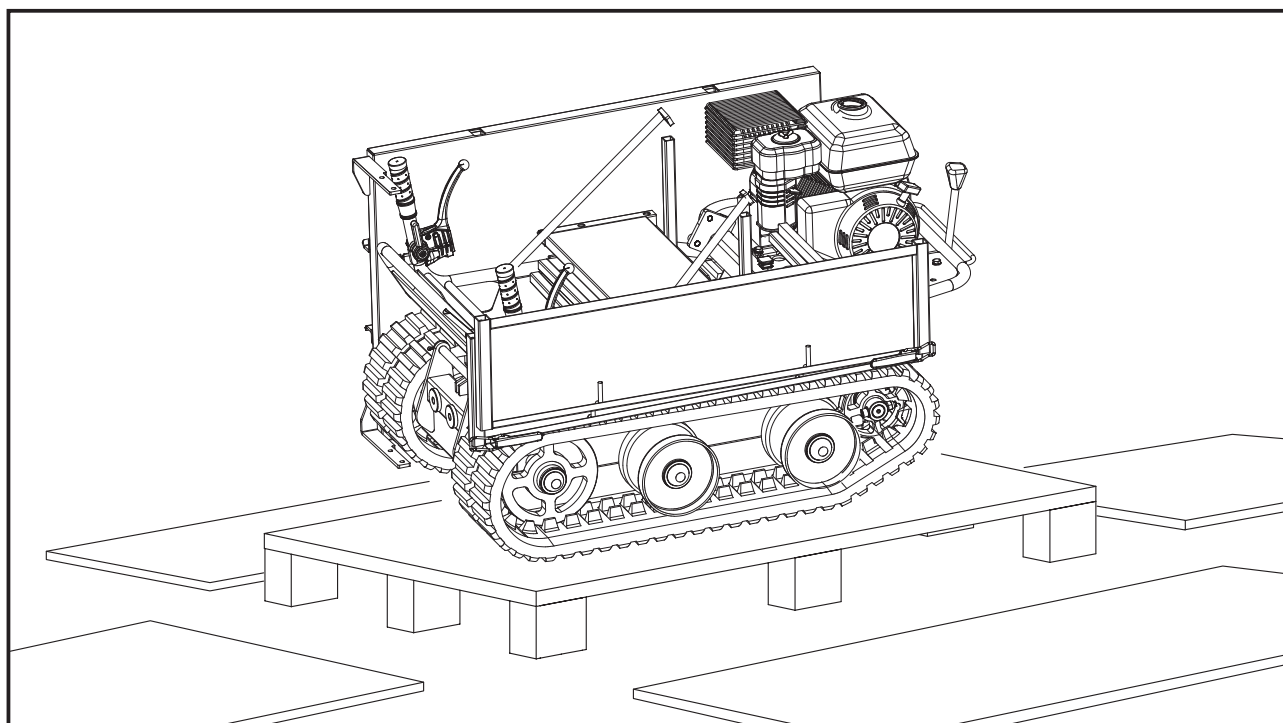
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.

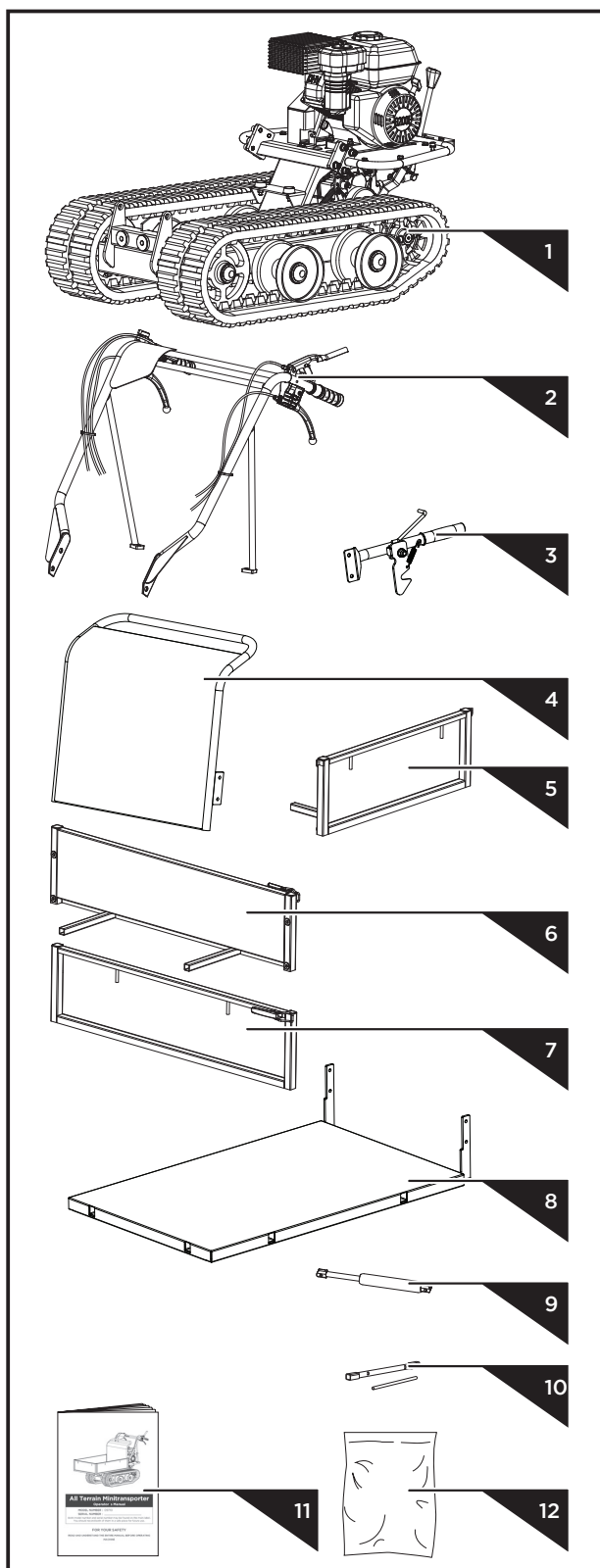


MINI TRACKED DUMPER

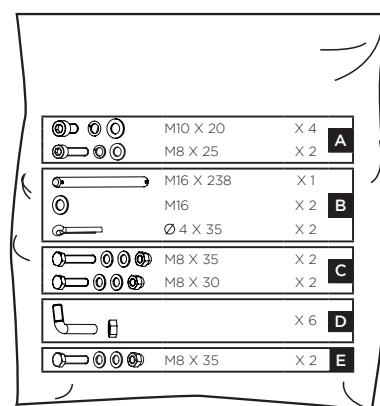
7

## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Main Frame
2. Handlebar Assembly
3. Tipping Handle
4. Engine Guard
5. Panel (Rear)
6. Extendable Left Side
7. Extendable Right Side
8. Panel (Bottom)
9. Gas Spring (Optional)
10. Tools for Spark Plug Assembly
11. Operator's Manual & Engine Manual
12. Hardware Bag, Including



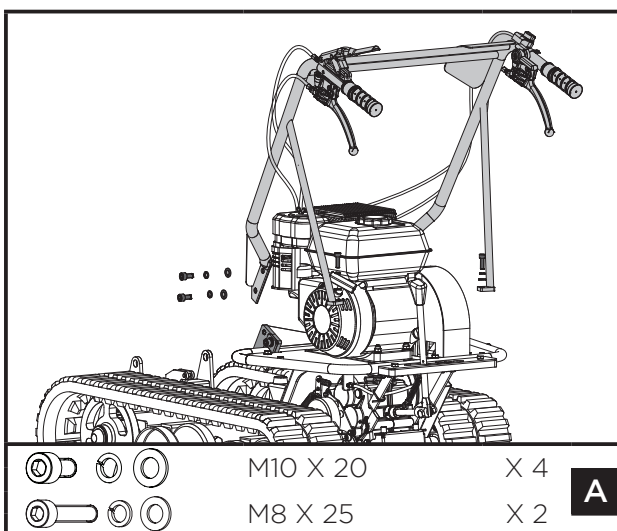


# ASSEMBLY

Following the assembly directions below, you will assemble the machine in a few minutes.

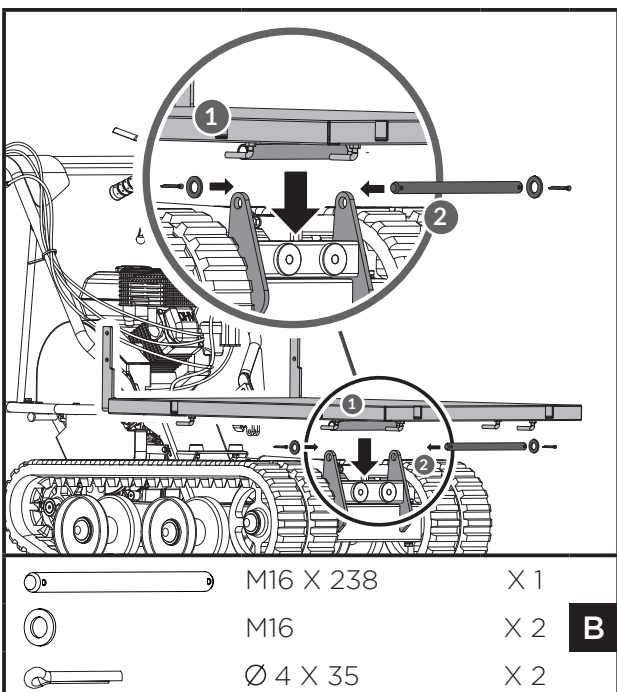
## Handlebar Assembly

Align the holes of the handlebar with the mount bracket and secure each with a spring washer, flat washer and a M10x20 bolt. Fasten each handlebar support onto the engine deck with a spring washer, flat washer and a M8x25 hex bolt.



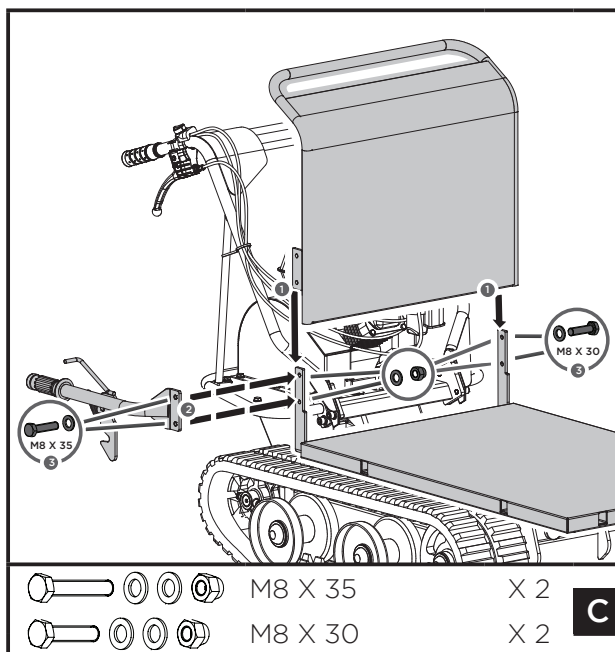
## Panel (Bottom)

Position the bottom panel inside the mounting bracket. Align the holes with the mounting bracket. Insert a long pin through holes and secure each side with a flat washer and cotter pin.



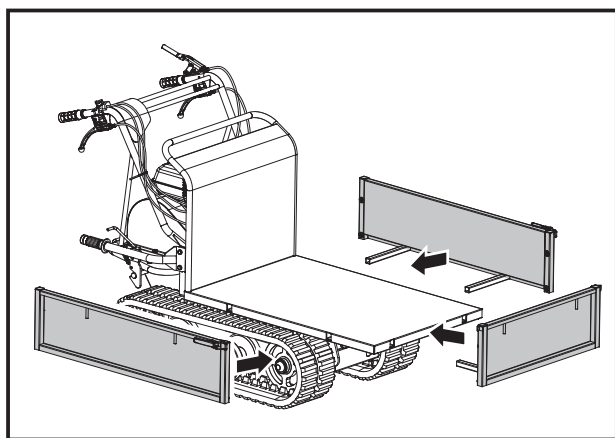
## Tipping Handle & Engine Guard

Place the engine guard inside the mounting bracket and align with the mounting bracket holes. Secure panel left side with two M8x30 hex bolts, four washers and two nuts. Mount the tipping handle on panel right side. Align holes and fasten with two M8x35 hex bolts, four washers and two nuts.

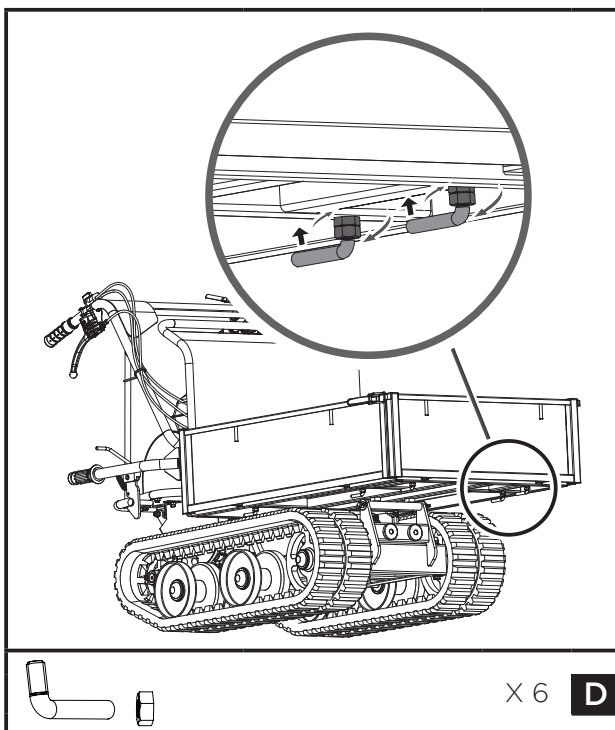


## Panel (Rear) & Extendable Left/Right Side

Insert the extendable sides into mounting slots located on the bottom panel and fasten each at the bottom with two L pins and locknuts.

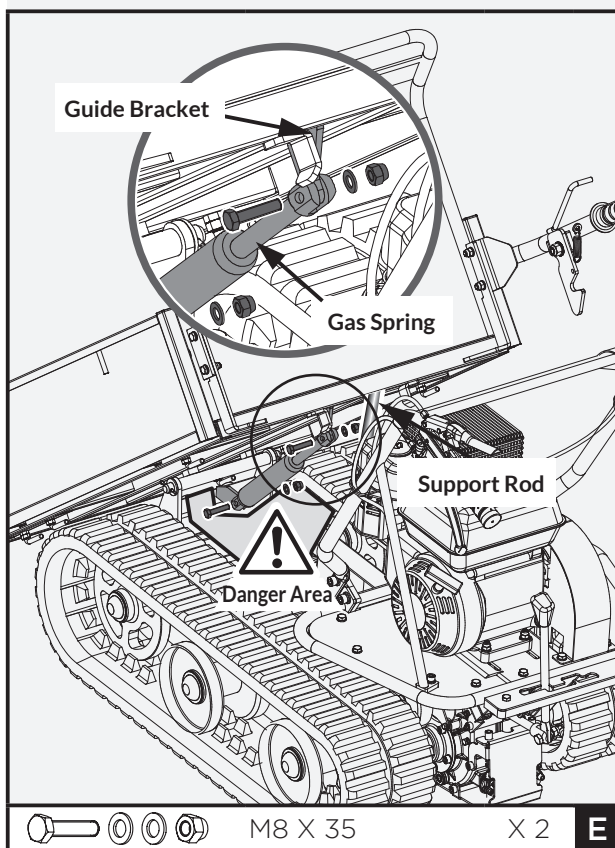






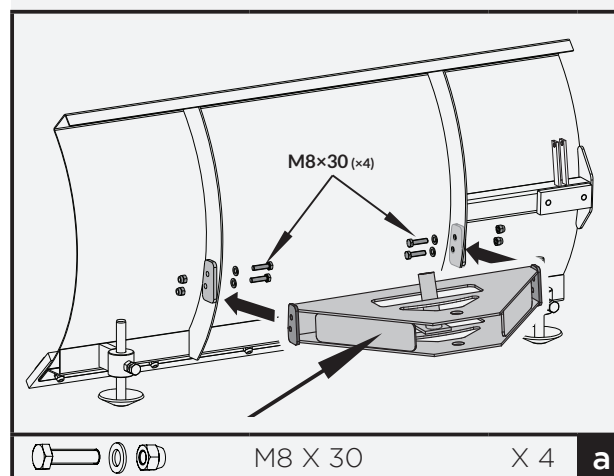
### Gas Spring (Optional)

Lift up the hopper and insert a support rod for safety purpose. Align the holes in the gas spring with the holes in both guide brackets and insert M8x35 bolts, washers and nuts to tighten.

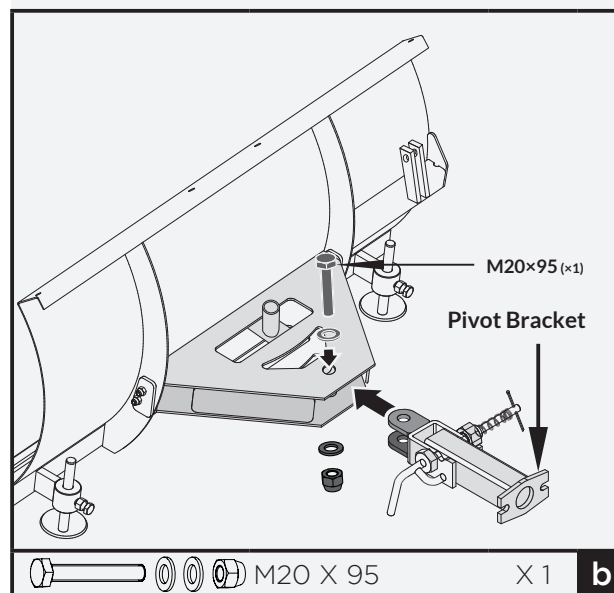


### Plow Blade (Optional)

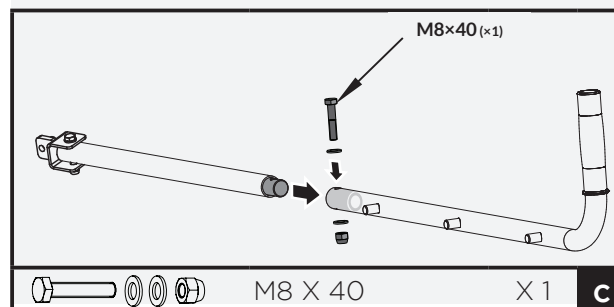
Mount the mounting bracket to the blade using M8X30 hex bolts, washers and nuts.



Position the pivot bracket inside the mounting bracket and align with mounting bracket holes. Secure with M20X95 hex bolt, washers and nut.



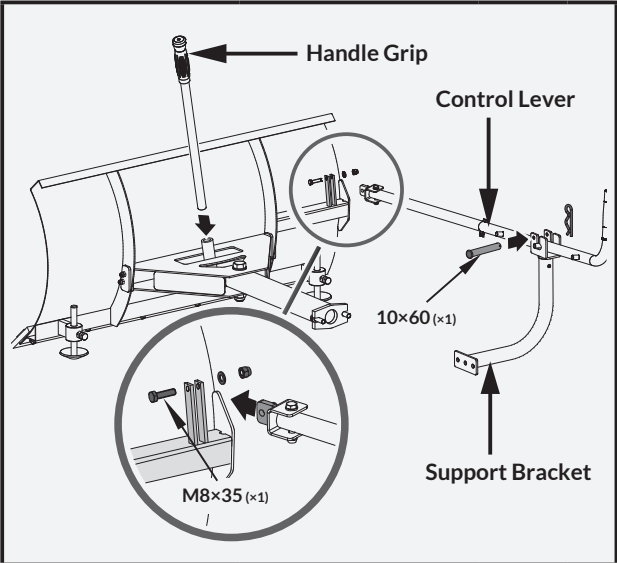
Insert the shorter control lever into the longer lever. Align holes and fasten with M8X40 hex bolt, washers and nut.



Attach control lever to the guide tube. Line up holes and fasten with M8X35 bolt, washers and nut.

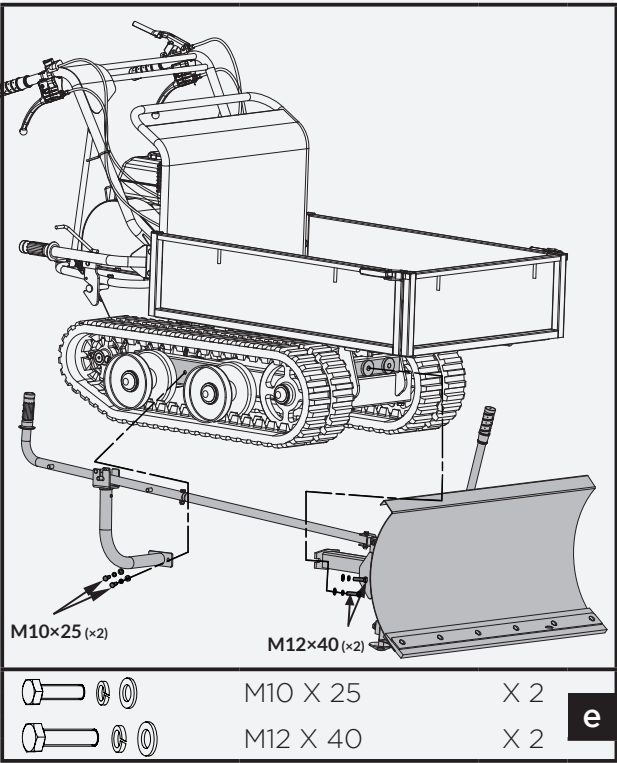
Insert the handle grip into the holder.

Secure the support bracket into the control lever with pin 10x60 and bridge clip.



	M8 X 35	X 1
	10 X 60	X 1
	2 X 11 X 35	X 1


Install the already assembled plow blade to the trackbarrow as shown.



	M10 X 25	X 2
	M12 X 40	X 2

### Engine Oil

**OIL HAS BEEN DRAINED FOR SHIPPING.**

 **Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.**

Add oil according to **Engine Manual** packed separately with your tiller.

# KNOW YOUR MACHINE

## Features and Controls

*Engine Switch*

*Throttle Control*

*Right Steering Lever*

*Clutch Control Lever*

*Left Steering Lever*

*Hopper*

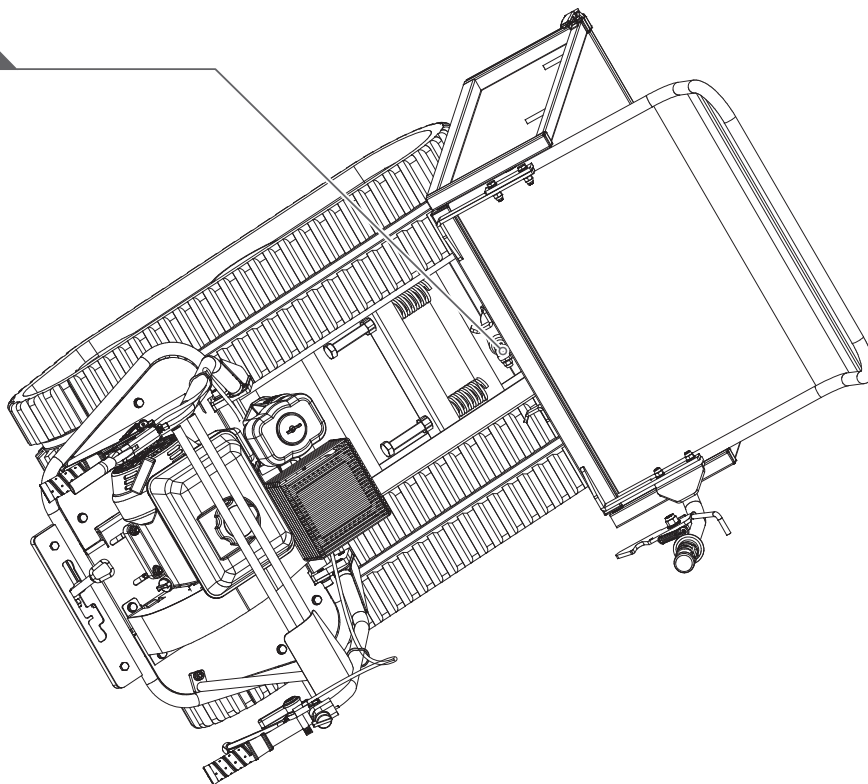
*Tipping Handle*

*Gear Selection Lever*

*Track*

*Gearbox*

*Gas Spring Assistance (Optional)*

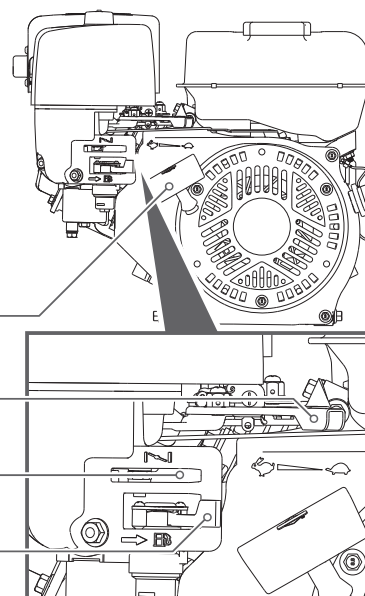


Recoil Starter Handle

Throttle Control

Choke Control

Fuel Shut-Off Valve



### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



***Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the power trackbarrow.***

Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the power trackbarrow.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



***Operate the steering levers only at a reduced speed.***

### Gas Spring Assistance (Optional)

The gas spring assistance provides support when lifting and lowering the hopper.

### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The recoil starter handle is used to start the engine.



### Fuel Shut-Off Valve

The fuel shut-off has two positions:

CLOSED (FD) - Use this position to service, transport, or to store the unit.



OPEN (ED) - Use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST , SLOW , and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED  and CHOKE OPEN  positions.



**Never use choke to stop engine.**

### Clutch Control Lever

Squeeze the control lever, clutch engaged.  
Release the lever, clutch disengaged.

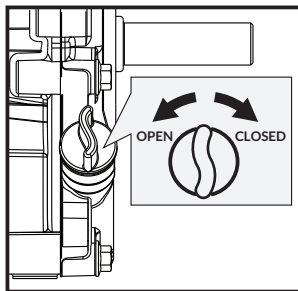
## Operation

### Add Oil To Engine



**The engine is shipped without oil. Do not start the engine before adding oil. Please refer to your engine manual for the proper grade of oil to add.**

1. Make sure the power trackbarrow is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Gasoline To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)



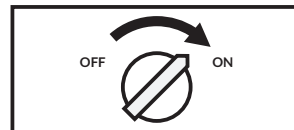
### **IMPORTANT: DO NOT OVERFILL!**

**This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.**

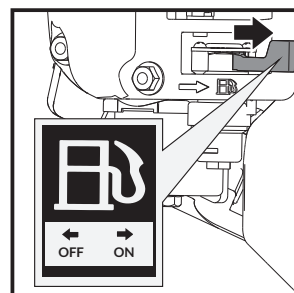
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

### Starting Engine

1. Move the engine switch to the ON position.



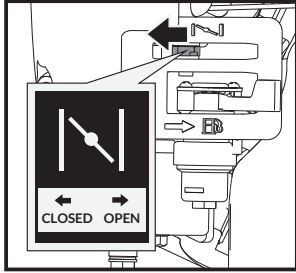
2. Open the fuel shut-off valve.



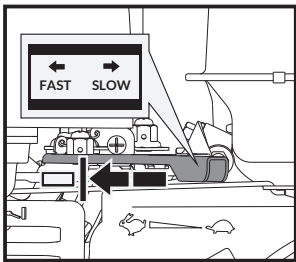


3. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

### Operating

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the power trackbarrow will start moving.

The power trackbarrow has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to

turn. When the machine is fully loaded, more pressure is required.

The power trackbarrow has a maximum load capacity of 660 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is, therefore, advisable to cover uneven or rough terrain using a low gear, and to take extra precautions. In such situations, the machine should be kept in low gear for the entire stretch.

Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the power trackbarrow unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

### STOP ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🛑) position.



***Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.***



***Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.***

## MAINTENANCE

Maintaining your mini tracked dumper will ensure long life to the machine and its components.

### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the power trackbarrow. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Check the spark plug wire regularly for signs of wear, and replace when needed.

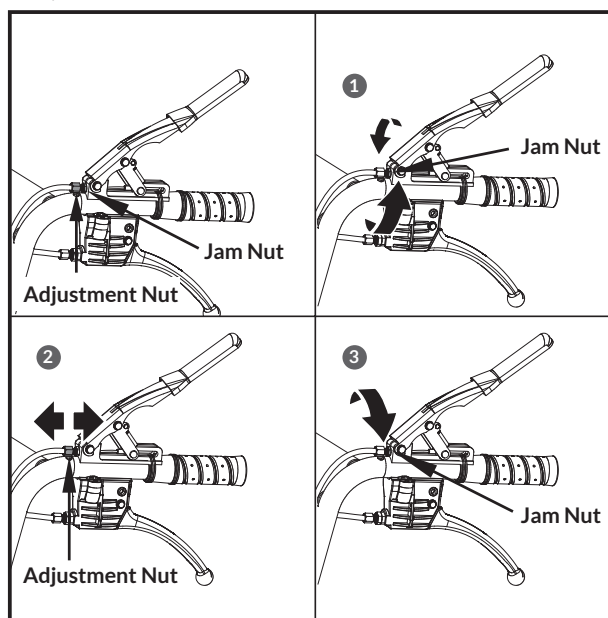


***Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.***

### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

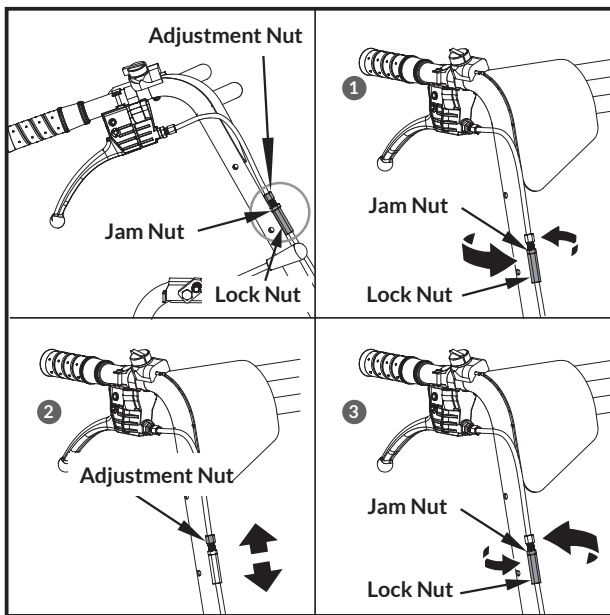
1. Loosen the jam nut by turning it counter clockwise with 10mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

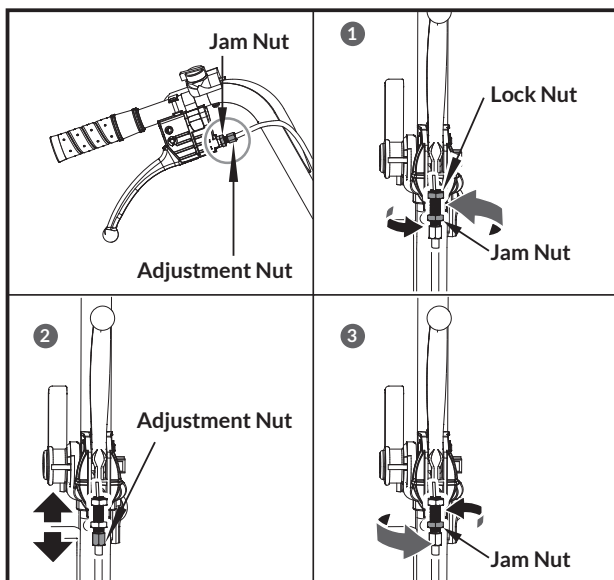
If steering becomes difficult to engage, follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



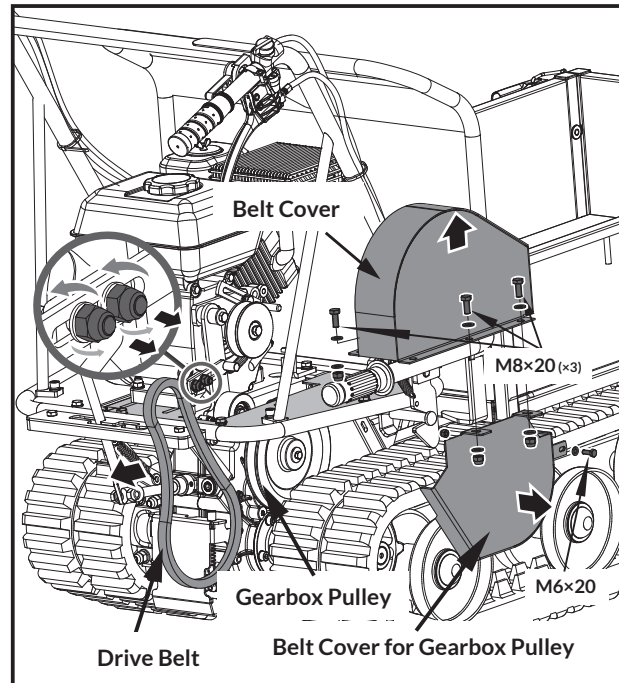
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Replacing Drive Belt

Remove belt covers as shown and pull out the belt.



**You may need to loosen the belt guide bracket and slide back before removing belt.**

### Lubrication

#### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.

#### Gearbox Lubrication

The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

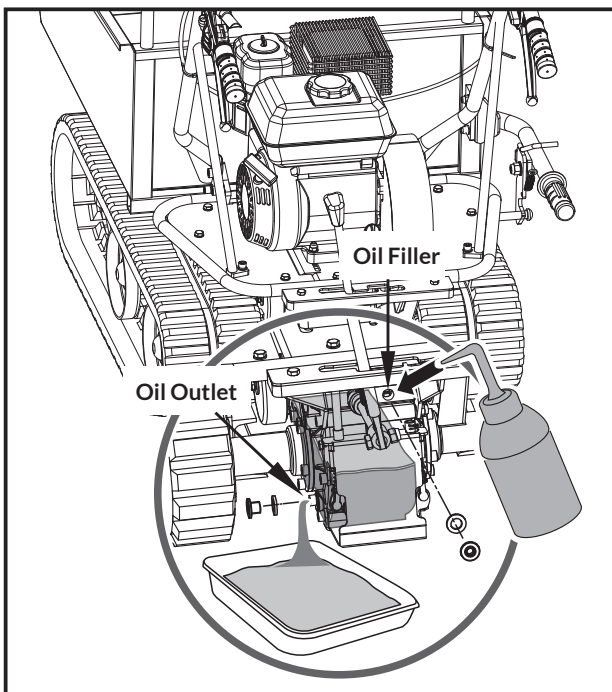
After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.



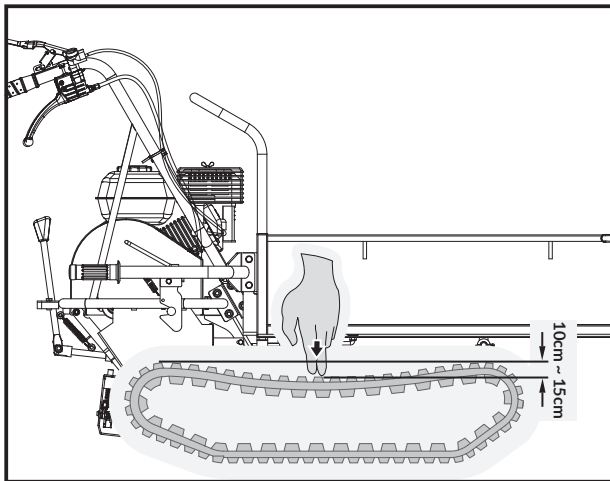


### Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

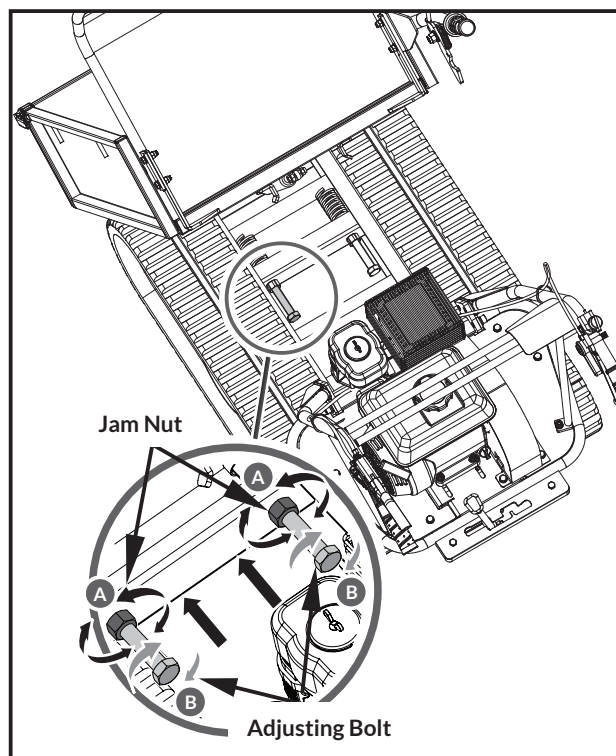
To check track tightness, proceed as follows.

1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 4" off the ground.
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10cm~15cm.



If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.



**Do not over-tighten your track.**  
The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

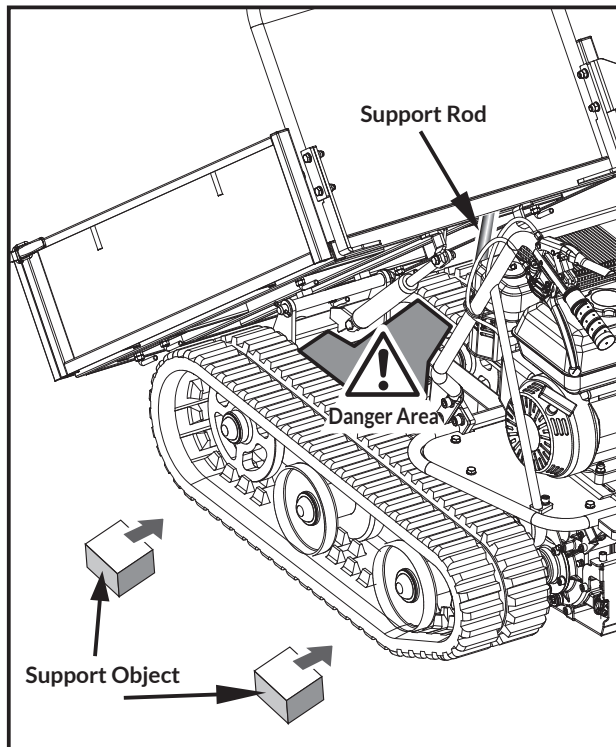


**If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.**

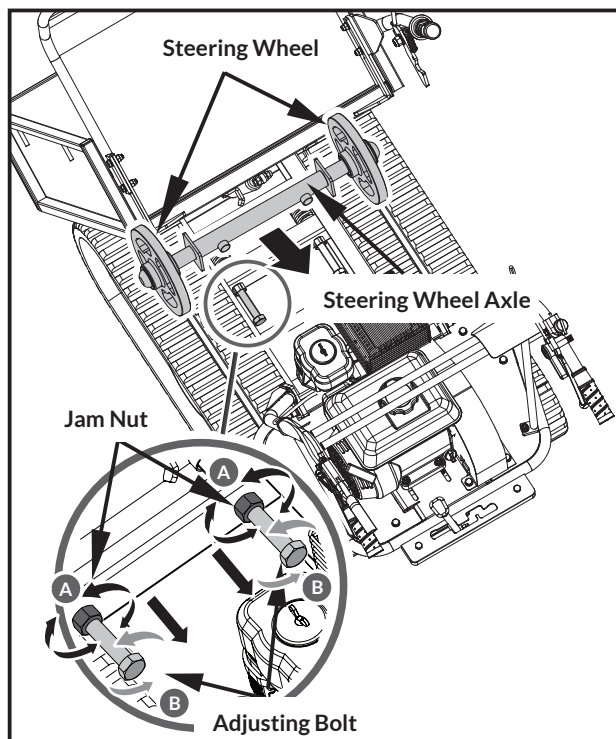
### Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

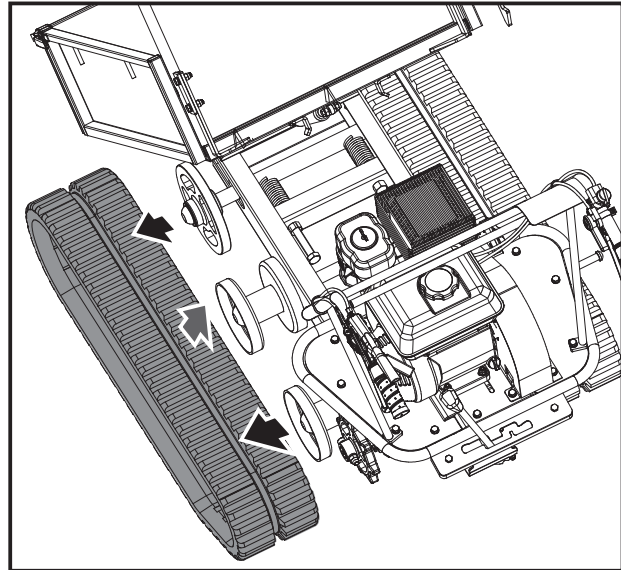
1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 4" off the ground.



3. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.



4. Pull out the whole track.



*When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.*

### Engine Maintenance

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



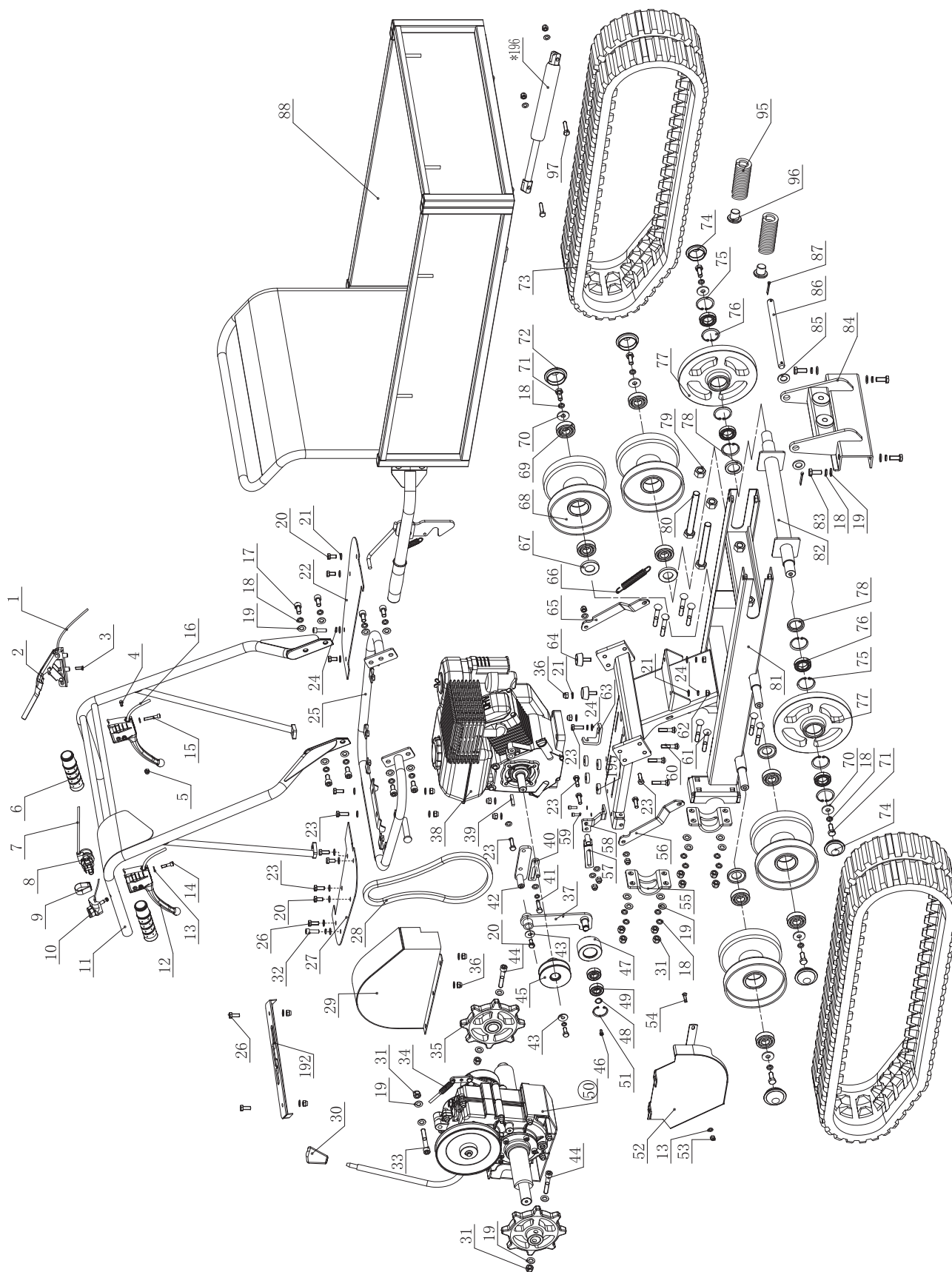
***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***

## TROUBLE SHOOTING

GB

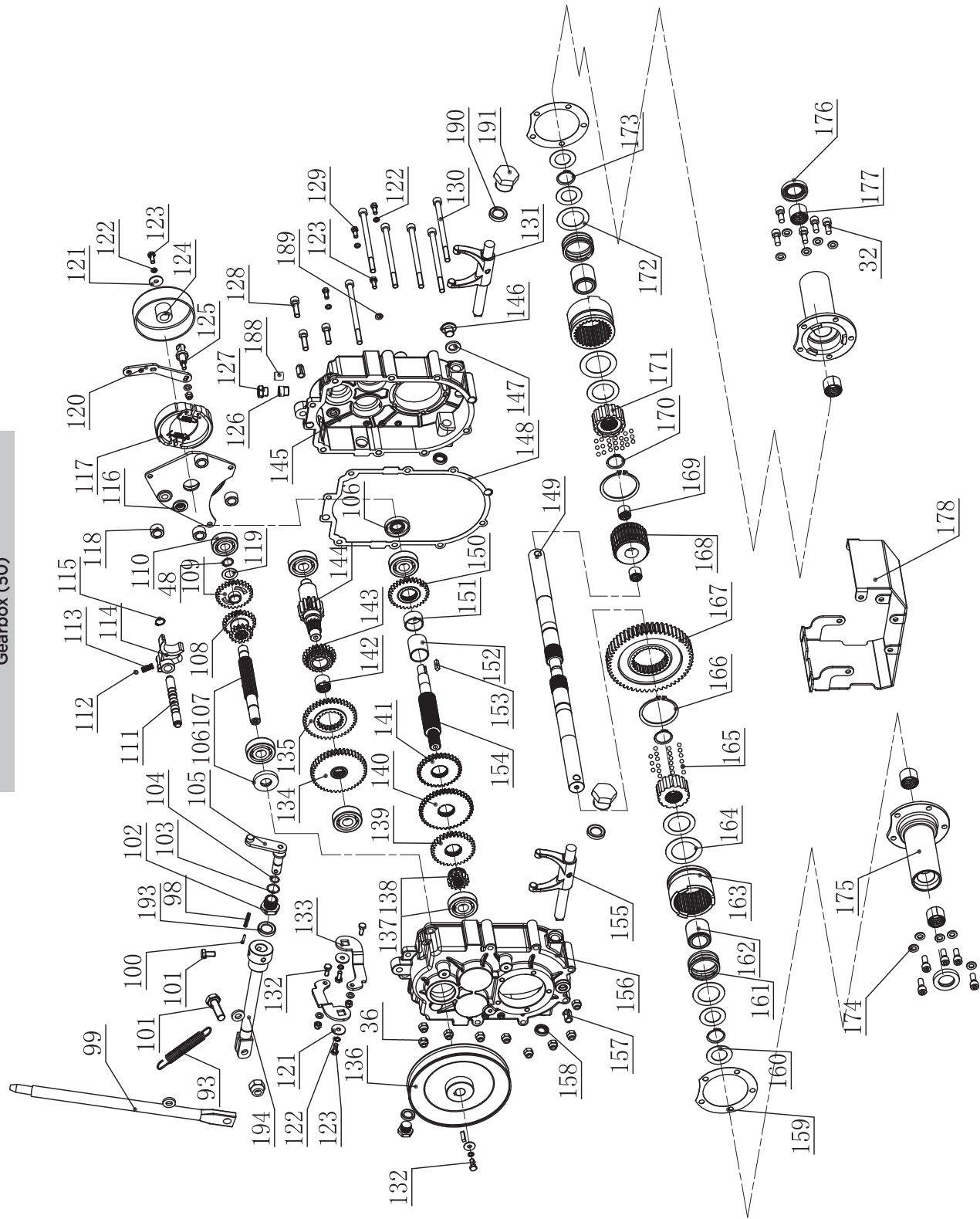
Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"> <li>1. Spark plug wire disconnected.</li> <li>2. Out of fuel or stale fuel.</li> <li>3. Choke not in open position.</li> <li>4. Blocked fuel line.</li> <li>5. Fouled spark plug.</li> <li>6. Engine flooding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug.</li> <li>2. Fill with clean, fresh gasoline.</li> <li>3. Throttle must be positioned at choke for a cold start.</li> <li>4. Clean the fuel line.</li> <li>5. Clean, adjust gap, or replace.</li> <li>6. Wait a few minutes to restart, but do not prime.</li> </ol>
Engine runs erratically.	<ol style="list-style-type: none"> <li>1. Spark plug wire loose.</li> <li>2. Unit running on CHOKE.</li> <li>3. Blocked fuel line or stale fuel.</li> <li>4. Vent plugged.</li> <li>5. Water or dirt in fuel system.</li> <li>6. Dirty air cleaner.</li> <li>7. Improper carburetor adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire.</li> <li>2. Move choke lever to OFF.</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li> <li>4. Clear vent.</li> <li>5. Drain fuel tank. Refill with fresh fuel.</li> <li>6. Clean or replace air cleaner.</li> <li>7. Refer to Engine Manual.</li> </ol>
Engine overheats.	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Dirty air cleaner.</li> <li>3. Air flow restricted.</li> <li>4. Carburetor not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil.</li> <li>2. Clean air cleaner.</li> <li>3. Remove housing and clean.</li> <li>4. Refer to Engine Manual.</li> </ol>
One of the two tracks is blocked.	Foreign bodies have worked their way between the track and the frame.	Remove the foreign body.
Machine does not move while engine is running.	<ol style="list-style-type: none"> <li>1. Gear is not properly selected.</li> <li>2. Driving tracks not tight enough.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears.</li> <li>2. Tighten driving tracks.</li> </ol>

## PARTS SCHEDULE

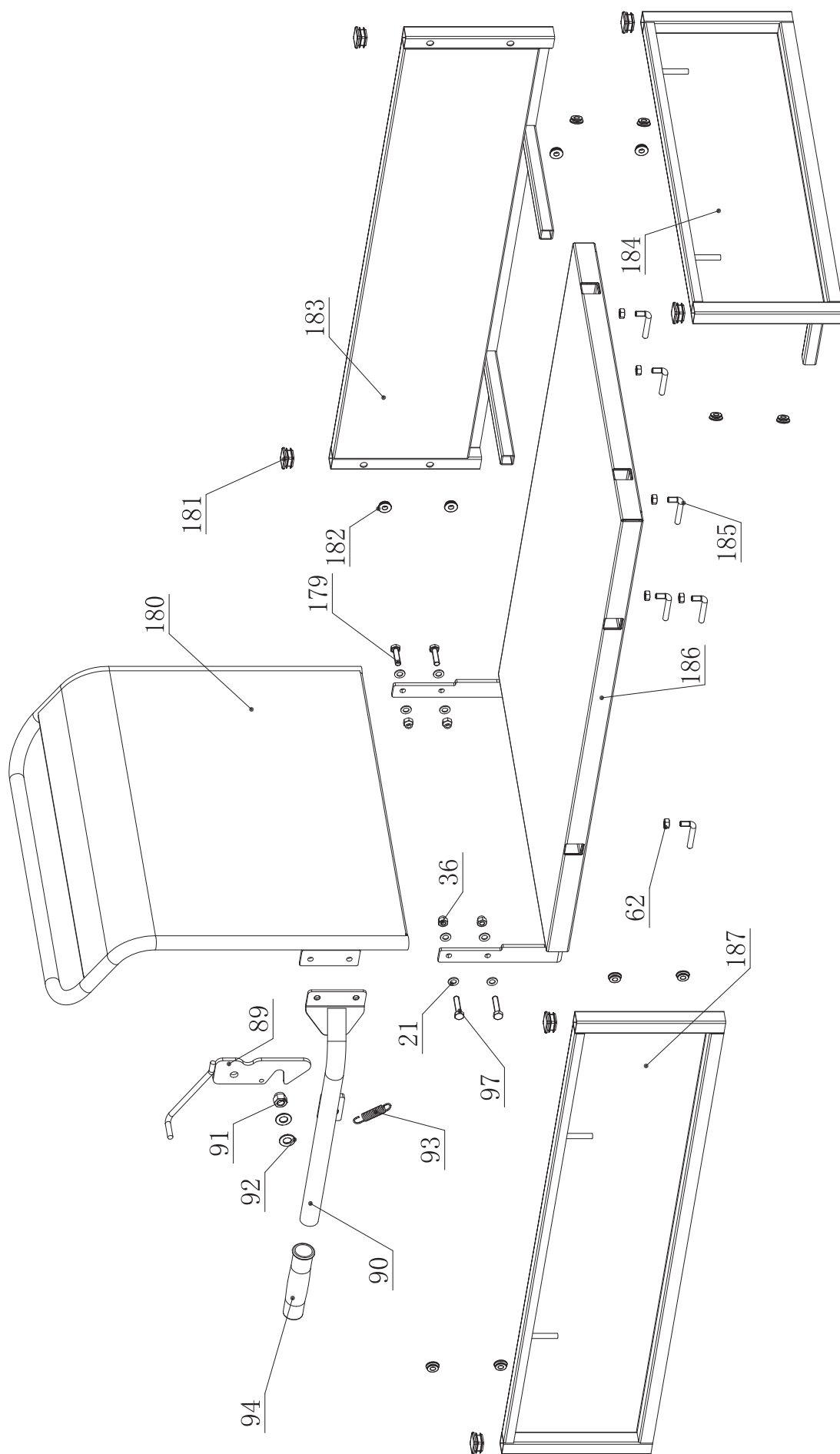




Gearbox (50)



Box (88)



# PARTS LIST

GB

No.	Description	Q'ty
1	Tensioner Pulley Cable	1
2	Safety Control Handle	1
3	Screw M6x16	1
4	Screw M5x20	2
5	Nut M5	2
6	Handle Sleeve	2
7	Throttle Cable	1
8	Throttle Lever	1
9	HOOP	1
10	ON/OFF Switch	1
11	Handle Frame Assembly	1
12	Lower Handle	2
13	Washer ø6	11
14	Screw M6x35	1
15	Screw M6x60	1
16	Right/Left Steering Lever Cable	2
17	Screw M10x20	8
18	Washer10	26
19	Washer10	22
20	Bolt M8X16	6
21	Washer8	41
22	Soleplate (left)	1
23	Bolt M8X25	11
24	Washer8	7
25	Handle Mounting Frame	1
26	Bolt M8X20	3
27	Soleplate (right)	1
28	Belt B32	1
29	Pulley Cover Weldment	1
30	Lever Knob	1
31	Lock Nut M10	11
32	Screw M8x20 w/glue	12
33	Bolt M10X70	1
34	Brake Cable	1
35	Driving Wheel	2
36	Nut M8	25
37	Tensioner Pulley Bracket	1
38	Engine	1

No.	Description	Q'ty
39	Key 5x35	1
40	Belt Protect Frame	1
41	Bolt M8x30	3
42	Fixed Bracket	1
43	Washer 8	2
44	Bolt M10x60	2
45	Belt Pulley	1
46	Screw M5x12	1
47	Tensioner Pulley	1
48	Circlip 15	1
49	Bearing 6202-2RS	2
50	Gear Box	1
51	Circlip 35	1
52	Large Belt Pulley Cover	1
53	Nut M6	3
54	Bolt M6x20	1
55	Wheel Axle Press Board	2
56	Support Plate (right)	1
57	Belt Plate	1
58	Connecting Angle Block	1
59	Bolt M6X25	2
60	Bolt M8x40	4
61	Bolt M10x65 w/glue	8
62	Nut M8	14
63	Cable Fixing Base	1
64	Rubber Mat	2
65	Support Plate (left)	1
66	Long Extension Spring	1
67	Skeleton Oil Seal	4
68	Weight Supporting Wheel Weldment	4
69	Bearing 6204-2RS	8
70	Washer 10	6
71	Bolt M10X25	6
72	Axle Head Cover(47)	4
73	Track 180x60	2
74	Axle Head Cover(42)	2
75	Circlip 42	8
76	Bear 61905-2RS	4

MINI TRACKED DUMPER



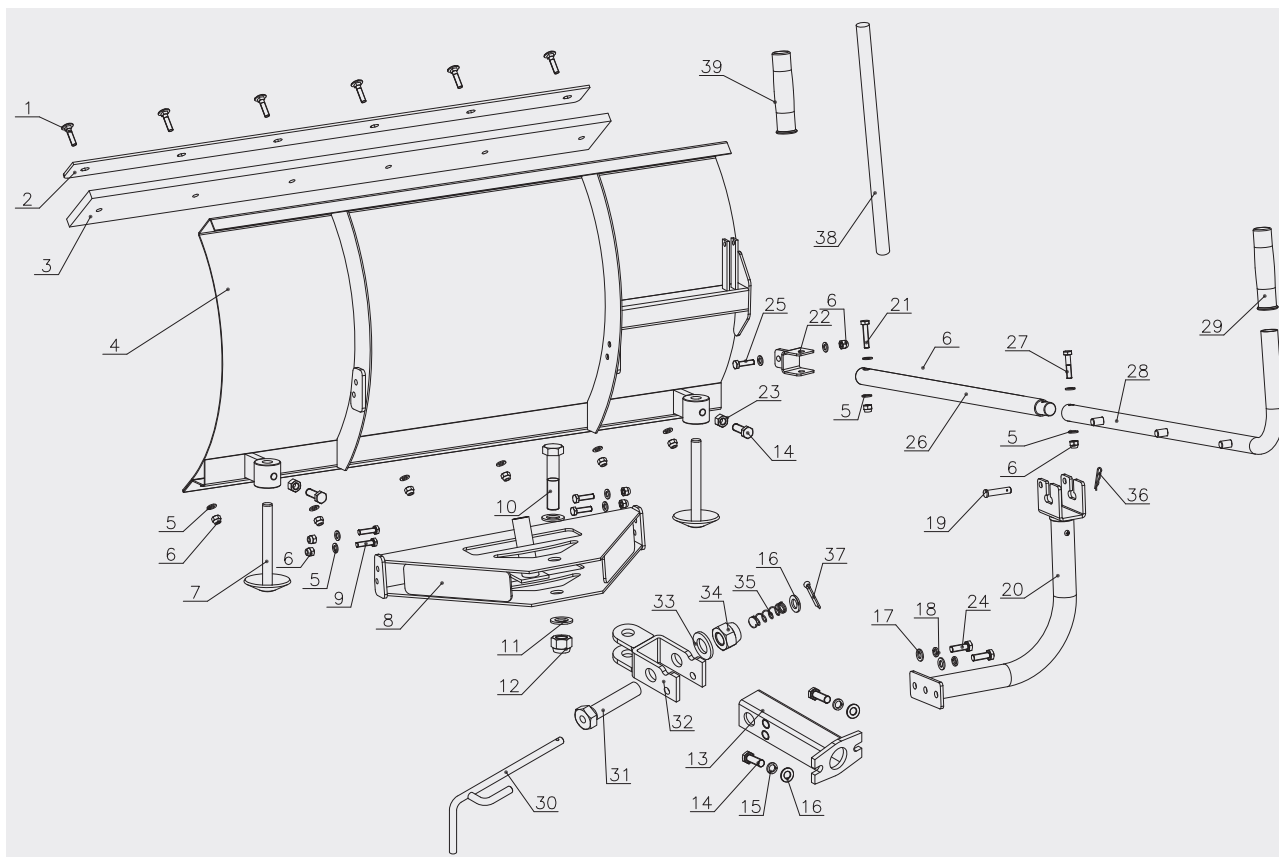
No.	Description	Q'ty
77	Guiding Wheel	2
78	Sealing Ring30X42X7	2
79	Nut M16	2
80	Bolt M16x110	2
81	Underframe Weldment	1
82	Guide Wheel Axle	1
83	Bolt M10X20	4
84	Support Bracket	1
85	Flat Gasket 16	2
86	Plain Shaft	1
87	Pin 4X35	2
88	Dumper Box	1
89	Operation Lever Frame	1
90	Handle Frame Weldment	1
91	Nut M12	1
92	Washer 12	2
93	Extension Spring	2
94	Handle Sleeve	1
95	Guiding Spring	2
96	Locating sleeve	2
97	Bolt M8X35	4
98	Pin 5x30	1
99	Gearshift Lever	1
100	Pin 3*30	1
101	Bolt M8*12 w/glue	1
102	Orientation Nut	1
103	Washer GroupwareD20	1
104	O-Ring 11.2x1.8	1
105	Lever Mount Bracket	1
106	Seal FB17X40X7	2
107	Spline Shaft I	1
108	Duplex Slip Gear	1
109	Gear	1
110	Bearing 6302	1
111	Gearshift Fork Guide Pin	1
112	Spring	1
113	Steel Ball 6	1
114	Gearshift Fork	1

No.	Description	Q'ty
115	Circlip 12	1
116	Rivet Assembly	1
117	Brake Disk	1
118	Joint Bolt	3
119	Plate	1
120	Brake Pull Plate	1
121	Washer6	4
122	Washer6	2
123	Bolt M6x16	4
124	Expansion Brake Cover	1
125	Stud	1
126	Vent-Plug Bushing	1
127	Vent-Plug	1
128	Screw M8X30	3
129	Expansion Brake Lock Bolt	3
130	Screw M8X130	6
131	Clutch Fork Shaft (L)	1
132	Bolt M6X20	3
133	Swing Plate	2
134	Gear III-4	1
135	Gear III-3	1
136	Large Belt Pulley	1
137	Bearing 6303	5
138	Gear II-5	1
139	Gear II-4	1
140	Gear II-3	1
141	Gear II-2	1
142	Gear III-2 Bush	1
143	Gear III-2	1
144	Gear Shaft III	1
145	Gear Box Case ( L)	1
146	Plug M14x1.5	2
147	Washer Groupware 14	2
148	Gear Box Case	1
149	Output Shaft	2
150	Gear II-1	1
151	Bush 2	1
152	Bush 1	1

No.	Description	Q'ty
153	Key C5x20	2
154	Spline Shaft II	1
155	Clutch Fork Shaft (R)	1
156	Gear Box Case ( R)	1
157	Pin 12x20	2
158	Seal FB16x22x4	2
159	Output Shaft Bush Gasket	2
160	Gasket 1	4
161	Clutch Spring	2
162	Spring Guide Bush	2
163	Clutch Sleeve	2
164	Spring Gasket	2
165	Steel Ball 5	70
166	Circlip 58	2
167	Output Gear	1
168	Intermediate Joint Bush	1
169	Intermediate Joint Bush Composite Bushing	2
170	Circlip 26	2
171	Joint Bush	2
172	Spring Gasket	4
173	Circlip 25	2
174	Washer 8	10
175	Output Shaft Bushing	2
176	Seal FB25x42x7	2
177	Output Shaft Composite Bushing	4
178	Guard Cover	1
179	Bolt M8x30	2
180	Panel (Front)	1
181	Plug	6
182	Shock Absorber pad	12
183	Extendable Side (Left)	1
184	Panel (Rear)	1
185	L Pin	6
186	Panel (Bottom)	1
187	Extendable Side (Right)	1

**GB**

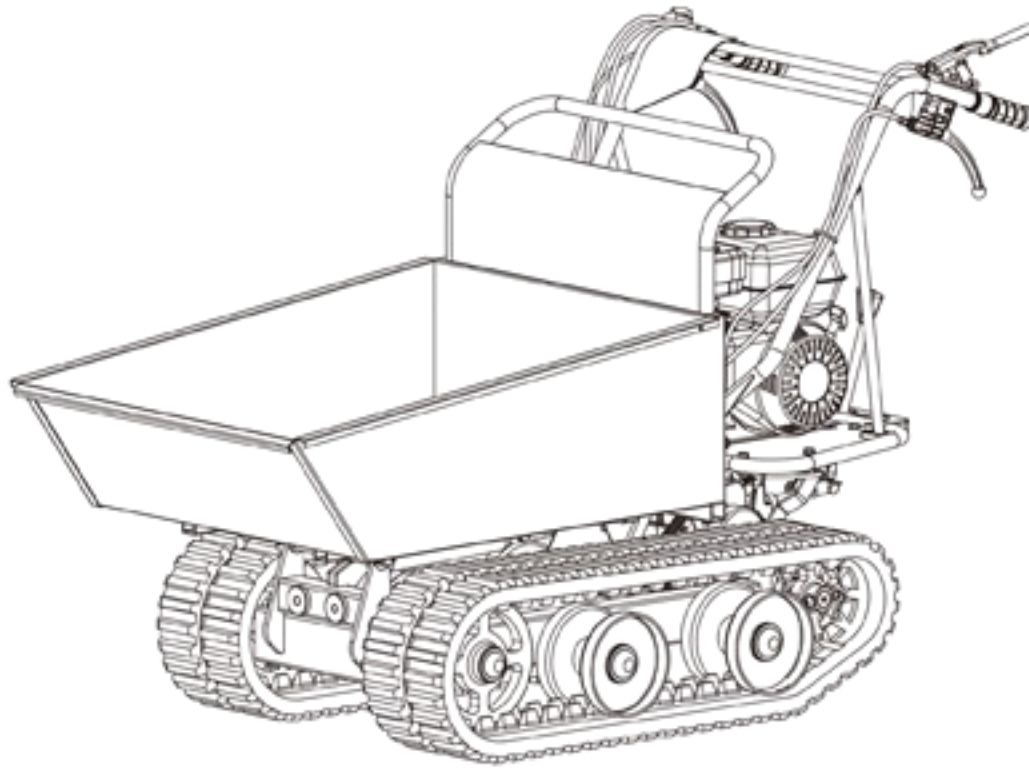
## Plow Blade (Optional)



## Parts List

No.	Description	Q'ty
1	Bolt M8X35	6
2	Shave Plate	1
3	Rubber Plate	1
4	Blade Weldment	1
5	Washer8	16
6	Nut M8	13
7	Landing Leg Weldment	2
8	Blade Fixed Bracket Weldment	1
9	Bolt M8X30	4
10	Bolt M20X95	1
11	Washer20	2
12	Nut M20	1
13	Blade Connecting Bracket Weldment	1
14	Bolt M12X40	4
15	Washer12	2
16	Washer12	3
17	Washer10	2
18	Washer10	2
19	Pin 10X60	1
20	Curved Support Bracket Weldment	1

No.	Description	Q'ty
21	Bolt M8X50	1
22	Active Connecting Weldment	1
23	Nut M12	2
24	Bolt M10X25	2
25	Bolt M8X35	1
26	Adjusting Rod Weldment B	1
27	Bolt M8X40	1
28	Adjusting Rod Weldment A	1
29	Handle Sleeve 28	1
30	Limiter Rod Wedment	1
31	Bolt M24X110	1
32	Limiter Weldment	1
33	Washer24	1
34	Lock Nut M24	1
35	Spring	1
36	Bridge Pin 2X11X35	1
37	Pin 4x40	1
38	Handle Grip 2	1
39	Handle Sleeve 25	1



# Mini Tracked Dumper

## Operator's Manual

MODEL NUMBER : ☐ QTP300C

SERIAL NUMBER :

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

### FOR YOUR SAFETY

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE

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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



*Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.*

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.	QTP300C	
Engine	196cc, 6.5HP	
Transmission	3F+1R	
Load Capacity	300 kg	
Box Length	860 mm	
Box Width	630 mm	
Box Depth	290 mm	
Track Width	180 mm	
Sound power level	101 dB(A) $k=2$ dB(A)	
Sound pressure level	81.5 dB(A) $k=2$ dB(A)	
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
	Right	11.3 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
Weight	179 kg	

## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper  
with the protection and safety  
devices.



No smoking, sparks, or flames



Do not touch parts that are hot  
from operation. Serious burns  
may result.



Keep your hands clear from all  
rotating parts.



Never start or run the engine  
inside a closed area.



Do not operate on slopes with  
angle over 20° or tip loading at  
an inclined position.



Be aware, objects may be  
thrown while in use.



The exhaust fumes are dangerous,  
containing carbon monoxide.  
Staying in the environment can  
lead to unconsciousness and  
death.



Always turn off the engine  
before starting maintenance.



Keep children and bystanders  
off and away.

GB



## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service

on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

#### **Engine Safety**

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

#### **Fuel Safety**

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.



## Specific Safety Rules

Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

**Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.**

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

Never operate the machine on slopes where angle is over 20°.

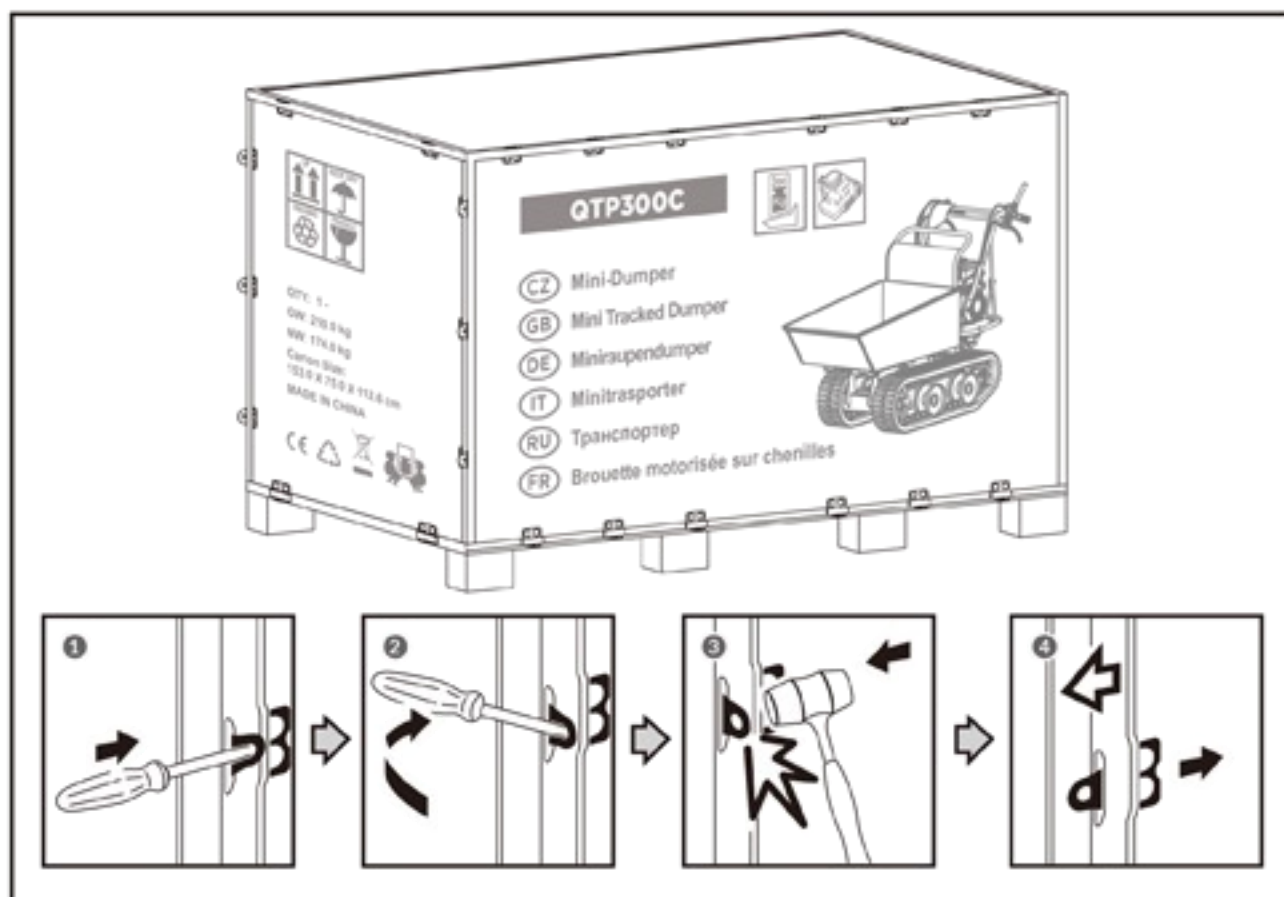
When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.

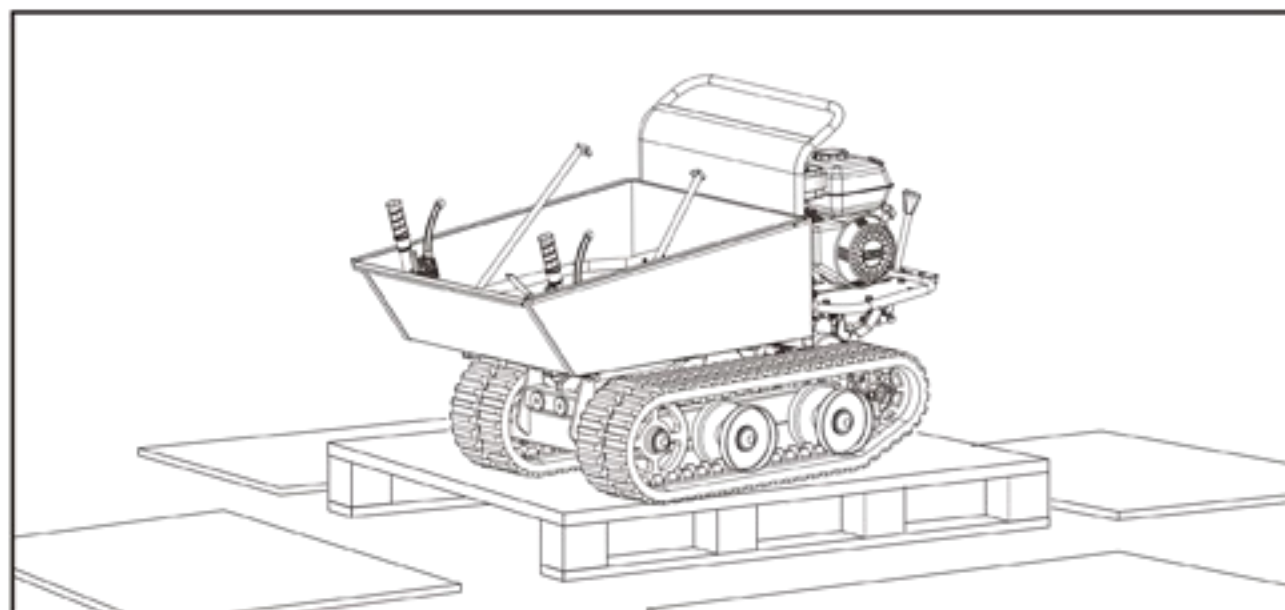
## UNPACKING THE CONTAINER

GB

Use the screwdriver and hammer to open all the side locks.

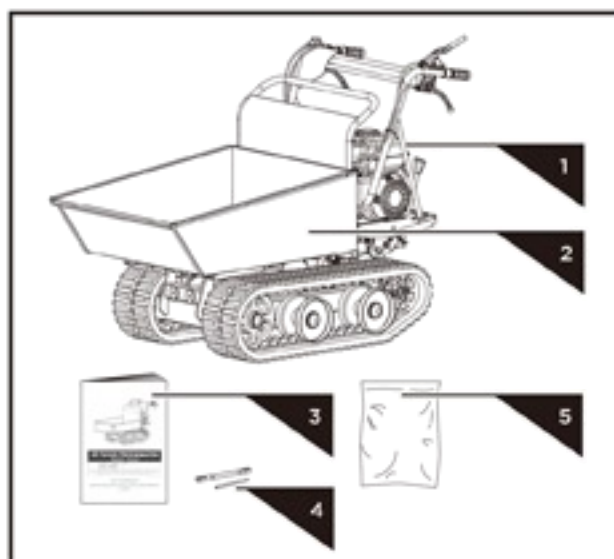


Remove all the plywood plates, and remove all the loose parts on the bottom pallets.



## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Handles
2. Machine
3. Operator's Manual & Engine Manual
4. Tools for Spark Plug Assembly
5. Hardware Bag, Including

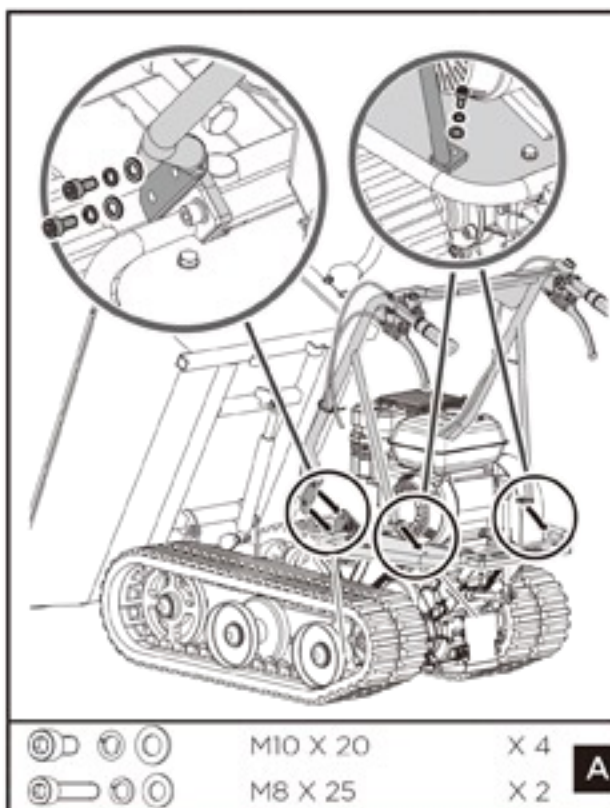


## ASSEMBLY

Following the assembly directions below, you will assemble the machine in a few minutes.

### Handlebar Assembly

Align the holes of the handlebar with the mount bracket and secure each with a spring washer, flat washer and a M10x20 bolt. Fasten each handlebar support onto the engine deck with a spring washer, flat washer and a M8x25 hex bolt.



### Engine Oil

**OIL HAS BEEN DRAINED FOR SHIPPING.**



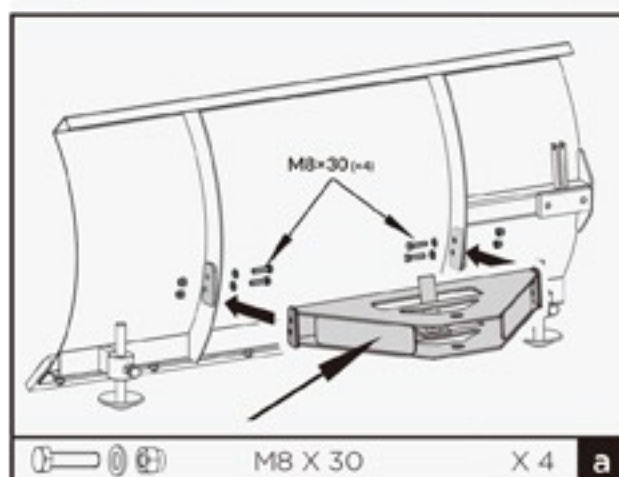
**Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.**

Add oil according to **Engine Manual** packed separately with your tiller.

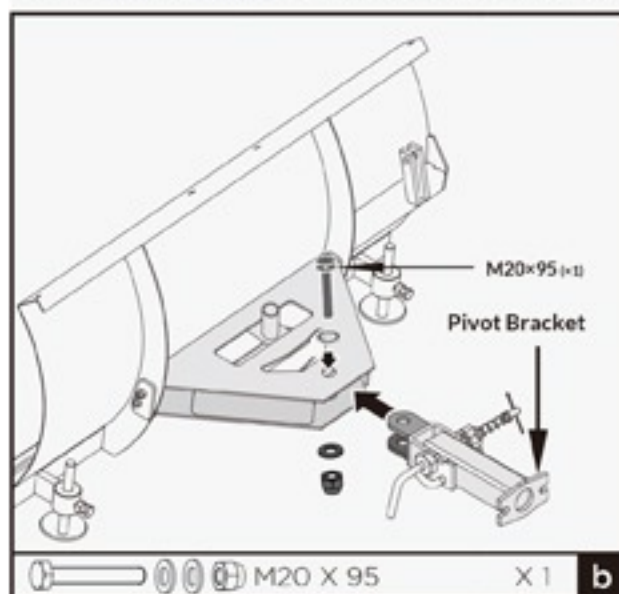


**Plow Blade (Optional)**

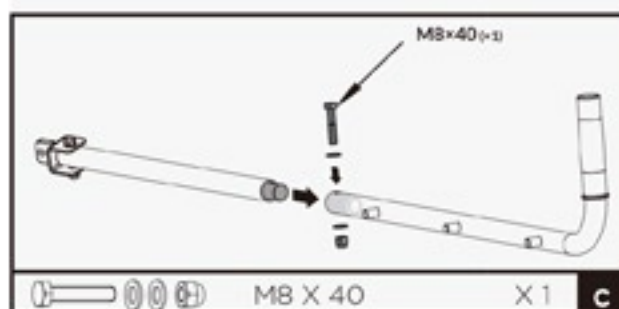
Mount the mounting bracket to the blade using M8X30 hex bolts, washers and nuts.



Position the pivot bracket inside the mounting bracket and align with mounting bracket holes. Secure with M20X95 hex bolt, washers and nut.



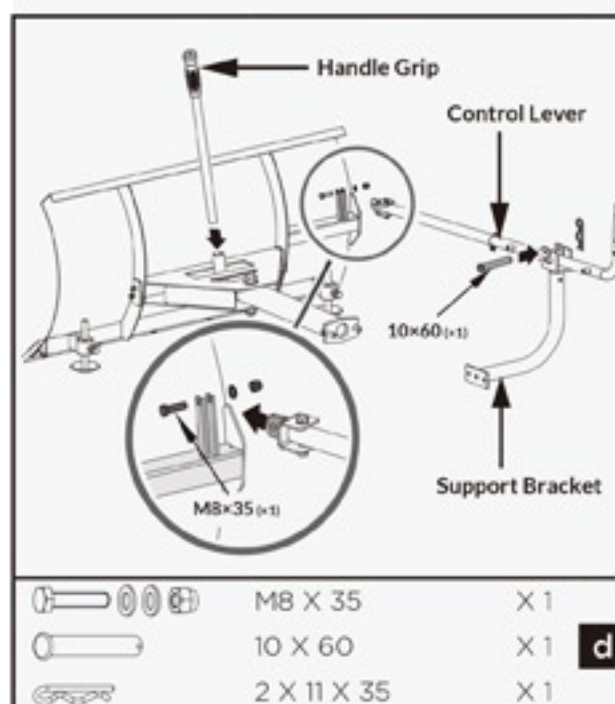
Insert the shorter control lever into the longer lever. Align holes and fasten with M8X40 hex bolt, washers and nut.



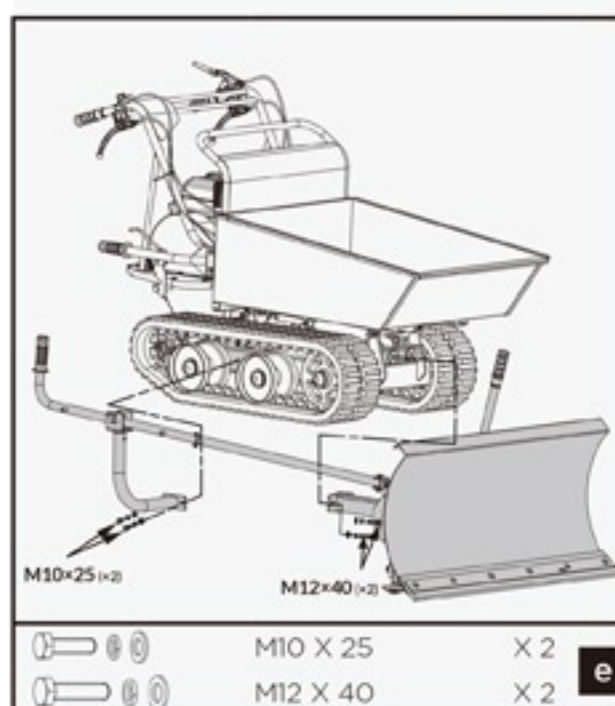
Attach control lever to the guide tube. Line up holes and fasten with M8X35 bolt, washers and nut.

Insert the handle grip into the holder.

Secure the support bracket into the control lever with pin 10x60 and bridge clip.



Install the already assembled plow blade to the trackbarrow as shown.



## KNOW YOUR MACHINE

### Features and Controls

Engine Switch

Throttle Control

Right Steering Lever

Clutch Control Lever

Left Steering Lever

Hopper

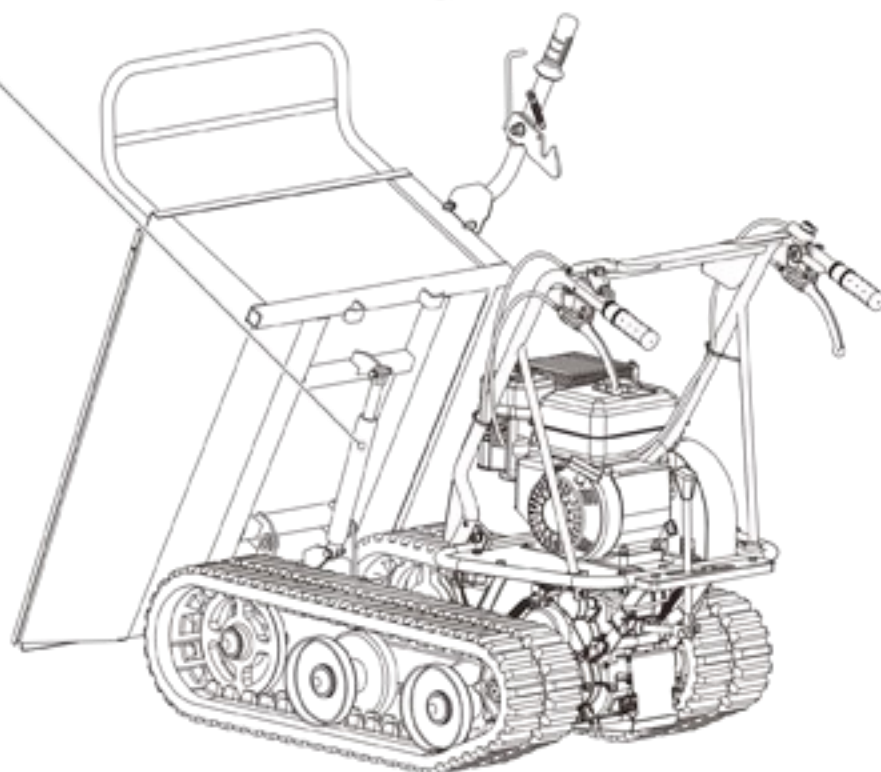
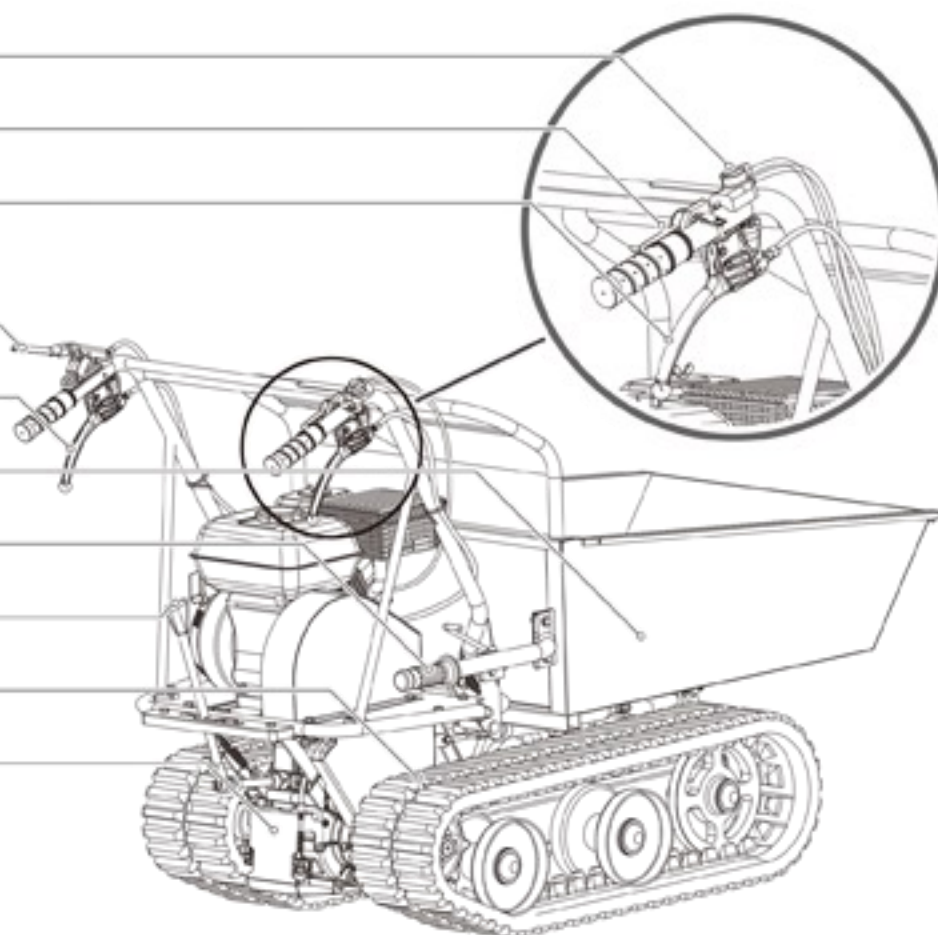
Tipping Handle

Gear Selection Lever

Track

Gearbox

Gas Spring Assistance



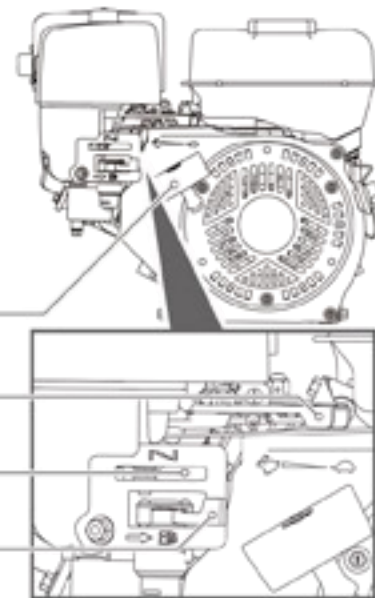


Recoil Starter Handle

Throttle Control

Choke Control

Fuel Shut-Off Valve



### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the power trackbarrow.**

Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the power trackbarrow.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**

### Gas Spring Assistance

The gas spring assistance provides support when lifting and lowering the hopper.

### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The recoil starter handle is used to start the engine.

### Fuel Shut-Off Valve

The fuel shut-off has two positions:

CLOSED (B) - Use this position to service, transport, or to store the unit.

OPEN (B) - Use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST (F), SLOW (S), and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED (C) and CHOKE OPEN (O) positions.



**Never use choke to stop engine.**

### Clutch Control Lever

Squeeze the control lever, clutch engaged.  
Release the lever, clutch disengaged.

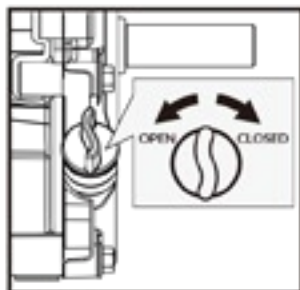
## Operation

### Add Oil To Engine



**No oil in the engine originally, but a bottle of engine oil is in scope of delivery. Don't start the engine before adding oil.**

1. Make sure the power trackbarrow is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Gasoline To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)



### IMPORTANT: DO NOT OVERFILL!

**This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.**

3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

### Starting Engine

1. Move the engine switch to the ON position.

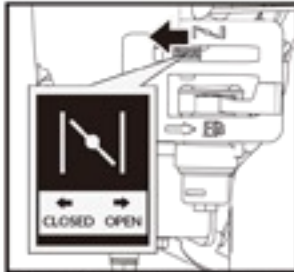


2. Open the fuel shut-off valve.

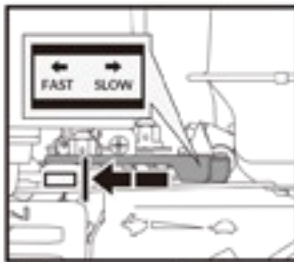


3. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

### Operating

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the power trackbarrow will start moving.

The power trackbarrow has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to

turn. When the machine is fully loaded, more pressure is required.

The power trackbarrow has a maximum capacity of 660 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.

Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the power trackbarrow unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

### STOP ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🚫) position.





**Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.**



**Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.**

## MAINTENANCE

Maintaining your mini tracked dumper will ensure long life to the machine and its components.

### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the power trackbarrow. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Replace the spark plug wire.

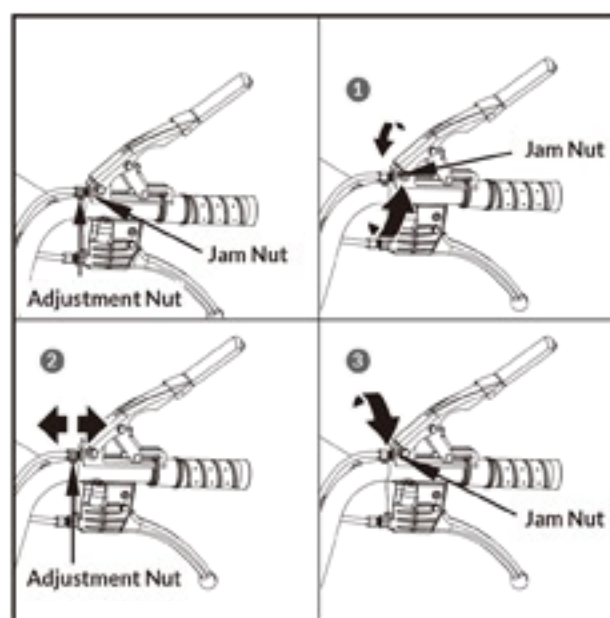


**Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.**

### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

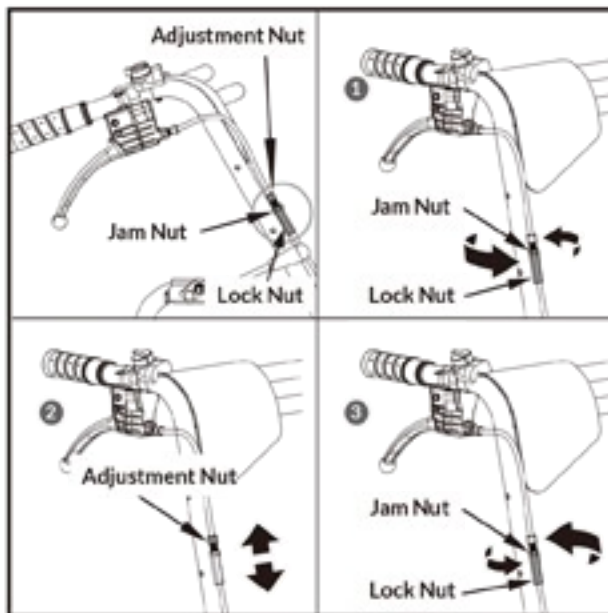
1. Loosen the jam nut by turning it counter clockwise with 10mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

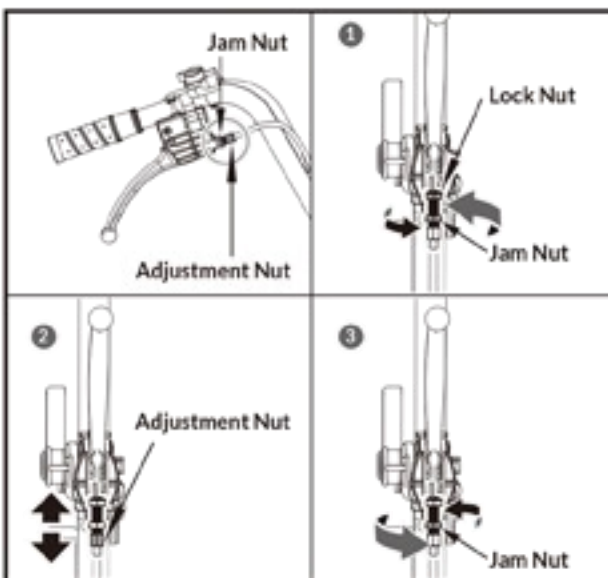
If steering becomes difficult to engage follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



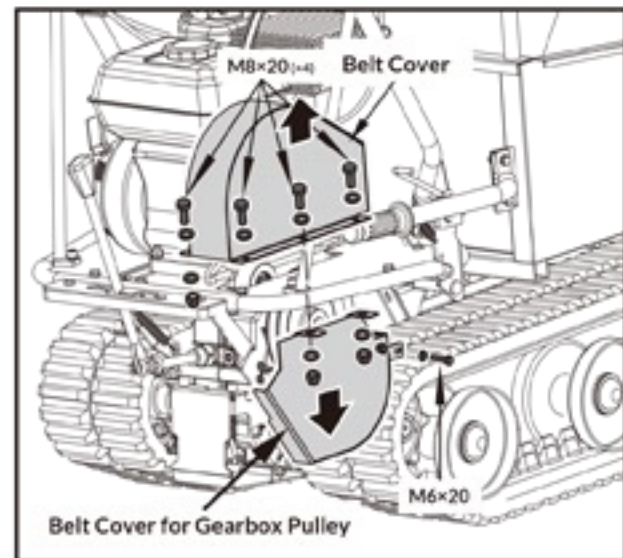
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.

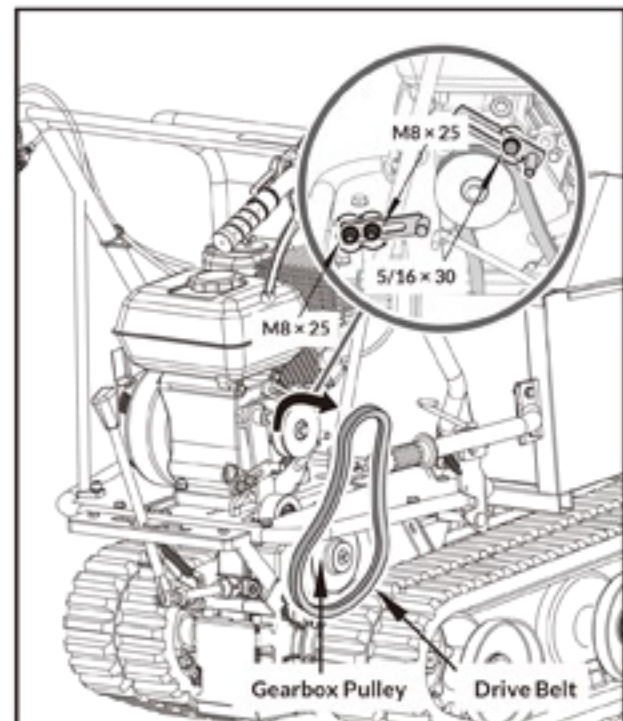


### Replacing Drive Belt

Remove the belt covers as show.



Loosen the two bolts M8X25 and one bolt 5/16X30 that fix the two belt blockers, no need to remove them. Pull out the belt.



*You may need to loosen the belt guide bracket and slide back before removing belt.*

### Lubrication

#### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.



### Gearbox Lubrication

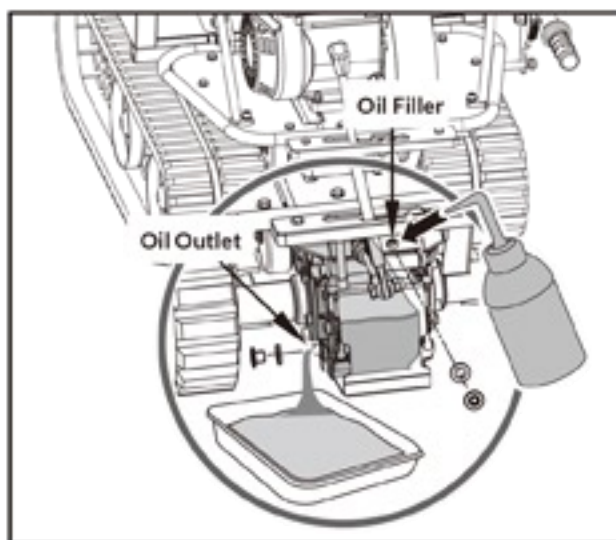
The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.



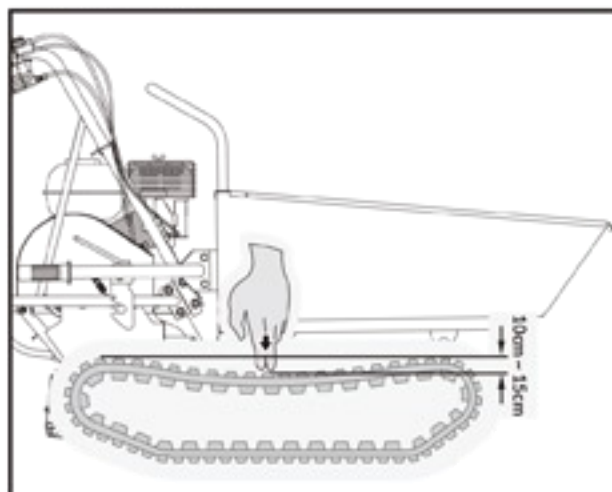
### Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

To check track tightness, proceed as follows.

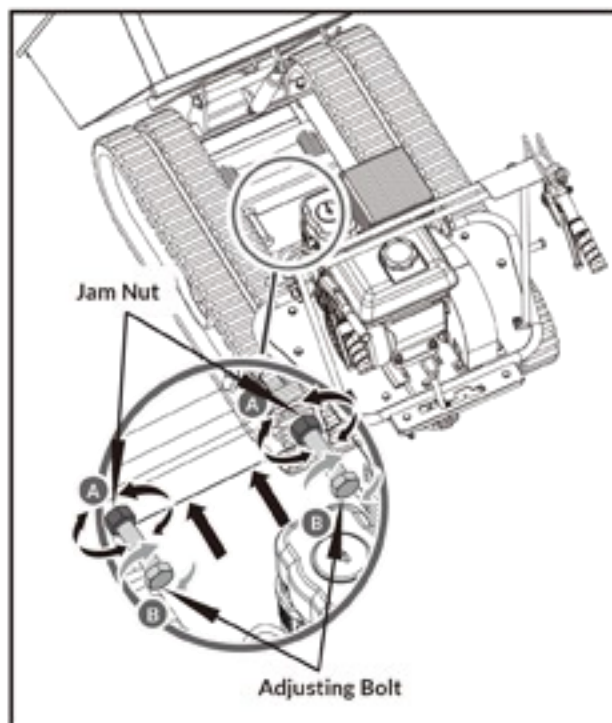
1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 4" off the ground.

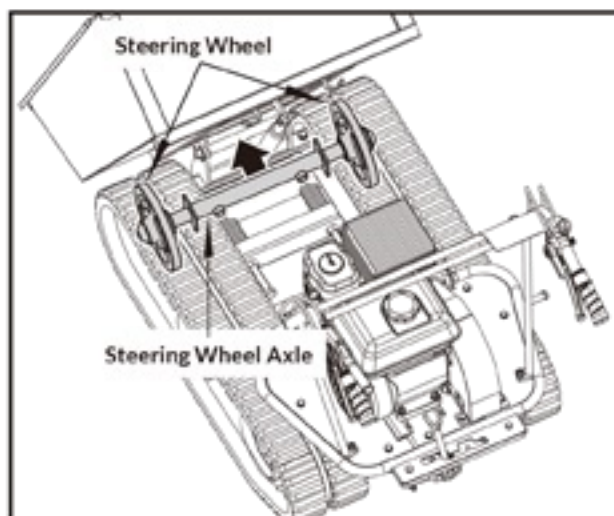
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10cm-15cm.



If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.





*Do not over-tighten your track. The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.*

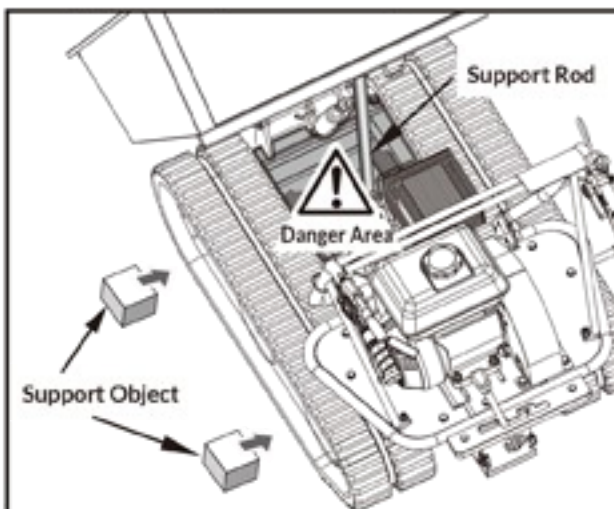


*If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.*

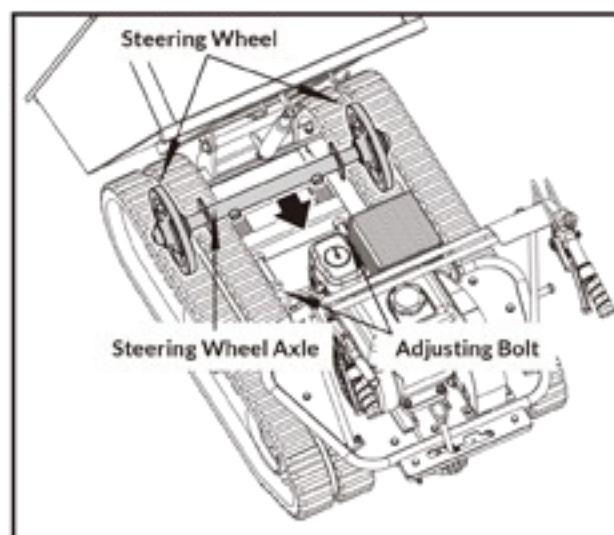
### Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

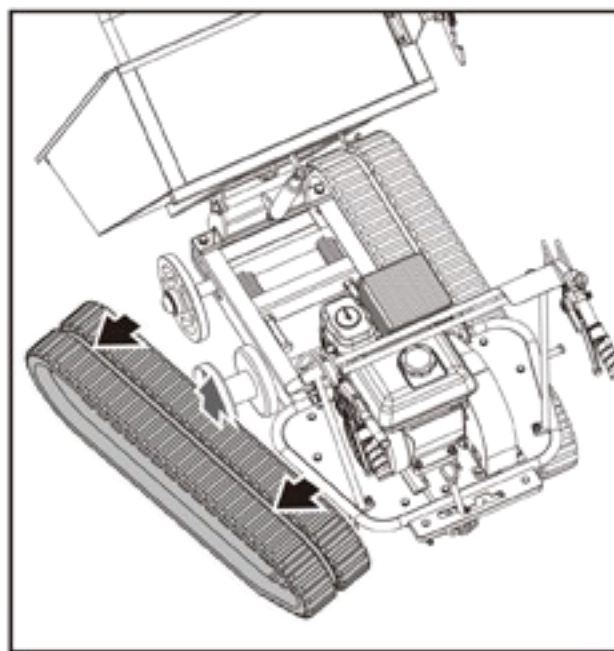
1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 4" off the ground.



3. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.



4. Pull out the whole track.



*When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.*

### Engine Maintenance

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.



## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.

4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



**Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.**

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



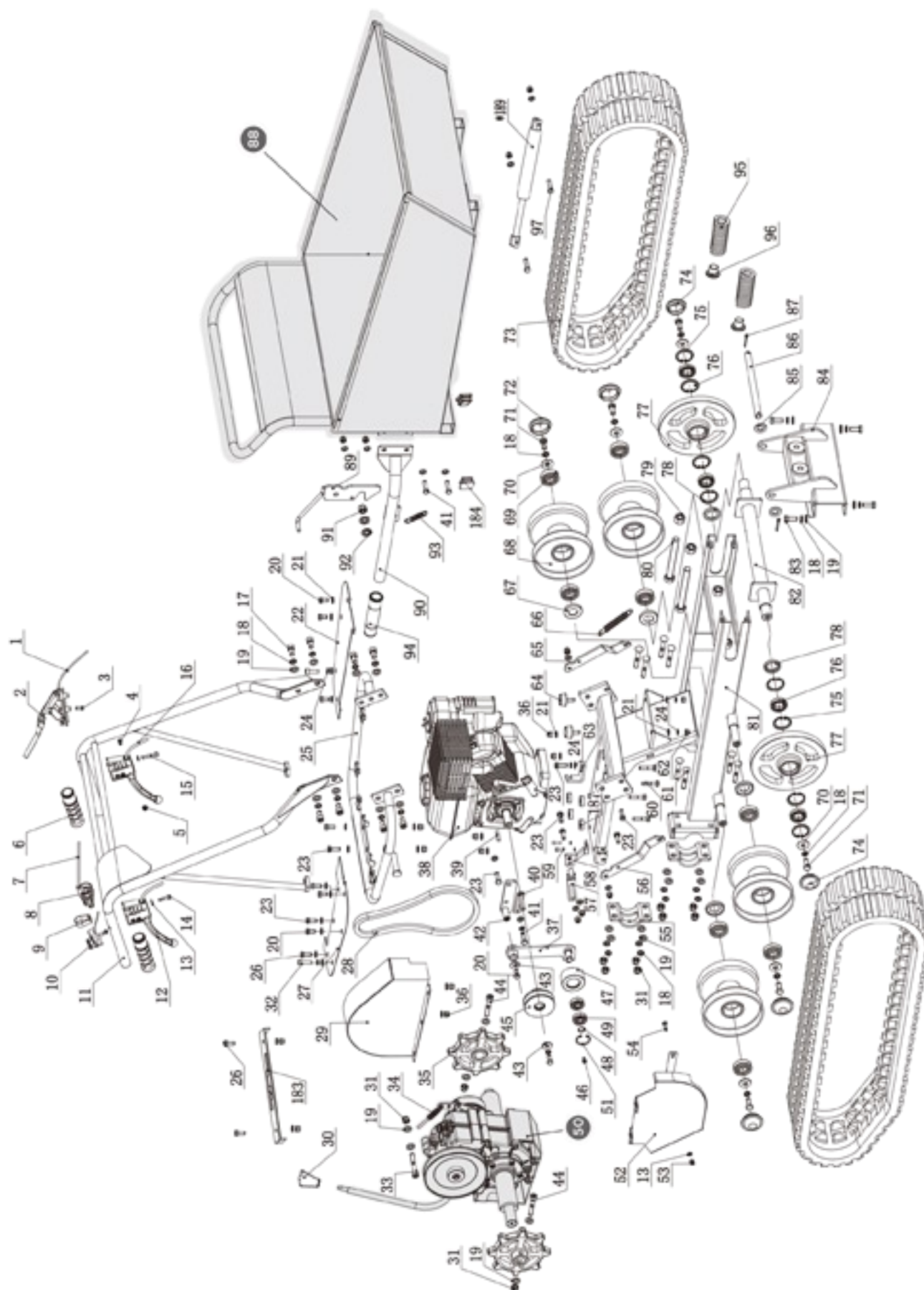
**Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.**

## TROUBLE SHOOTING

Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"> <li>1. Spark plug wire disconnected.</li> <li>2. Out of fuel or stale fuel.</li> <li>3. Choke not in open position.</li> <li>4. Blocked fuel line.</li> <li>5. Fouled spark plug.</li> <li>6. Engine flooding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug.</li> <li>2. Fill with clean, fresh gasoline.</li> <li>3. Throttle must be positioned at choke for a cold start.</li> <li>4. Clean the fuel line.</li> <li>5. Clean, adjust gap, or replace.</li> <li>6. Wait a few minutes to restart, but do not prime.</li> </ol>
Engine runs erratically.	<ol style="list-style-type: none"> <li>1. Spark plug wire loose.</li> <li>2. Unit running on CHOKE.</li> <li>3. Blocked fuel line or stale fuel.</li> <li>4. Vent plugged.</li> <li>5. Water or dirt in fuel system.</li> <li>6. Dirty air cleaner.</li> <li>7. Improper carburetor adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire.</li> <li>2. Move choke lever to OFF.</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li> <li>4. Clear vent.</li> <li>5. Drain fuel tank. Refill with fresh fuel.</li> <li>6. Clean or replace air cleaner.</li> <li>7. Refer to Engine Manual.</li> </ol>
Engine overheats.	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Dirty air cleaner.</li> <li>3. Air flow restricted.</li> <li>4. Carburetor not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil.</li> <li>2. Clean air cleaner.</li> <li>3. Remove housing and clean.</li> <li>4. Refer to Engine Manual.</li> </ol>
One of the two tracks is blocked.	Foreign bodies have worked their way between the track and the frame.	Remove the foreign body.
Machine does not move while engine is running.	<ol style="list-style-type: none"> <li>1. Gear is not properly selected.</li> <li>2. Driving tracks not tight enough.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears.</li> <li>2. Tighten driving tracks.</li> </ol>

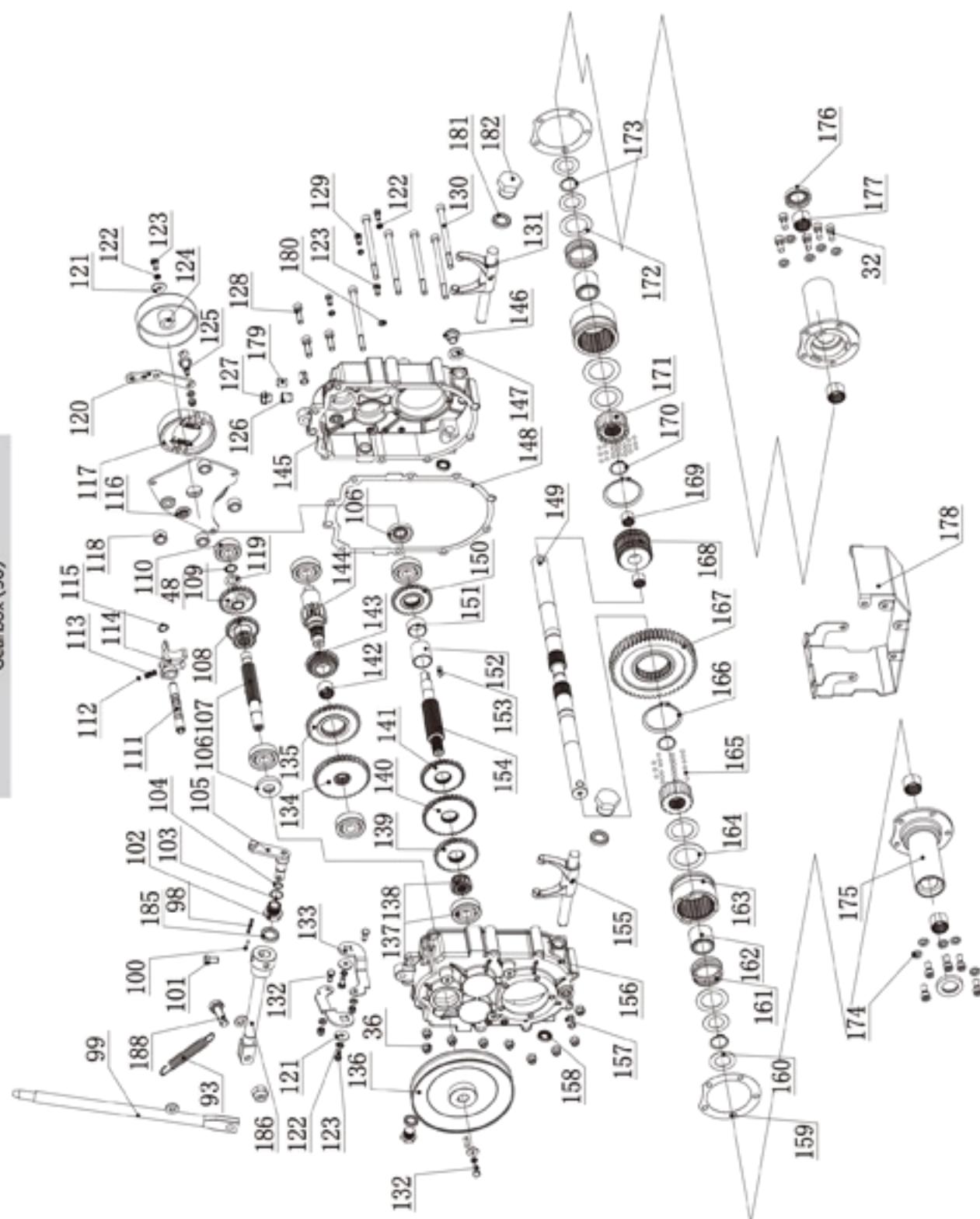
# PARTS SCHEDULE

GB



MINI TRACKED DUMPER

Gearbox (50)





# PARTS LIST

GB

No.	Description	Q'ty
1	Tensioner Pulley Cable	1
2	Safety Control Handle	1
3	Screw M6x16	1
4	Screw M5x20	2
5	Nut M5	2
6	Handle Sleeve	2
7	Throttle Cable	1
8	Throttle Lever	1
9	HOOP	1
10	ON/OFF Switch	1
11	Handle Frame Assembly	1
12	Lower Handle	2
13	Washer ø6	11
14	Screw M6x35	1
15	Screw M6x60	1
16	Right/Left Steering Lever Cable	2
17	Screw M10x20	8
18	Washer10	26
19	Washer10	22
20	Bolt M8X16	6
21	Washer 8	41
22	Soleplate (left)	1
23	Bolt M8x25	11
24	Washer 8	7
25	Handle Mounting Frame	1
26	Bolt M8x20	3
27	Soleplate (right)	1
28	Belt B32	1
29	Pulley Cover Weldment	1
30	Lever Knob	1
31	Lock Nut M10	11
32	Screw M8x20 w/glue	12
33	Bolt M10x70	1
34	Brake Cable	1
35	Driving Wheel	2
36	Nut M8	25
37	Tensioner Pulley Bracket	1
38	Engine	1

No.	Description	Q'ty
39	Key 5x35	1
40	Belt Protect Frame	1
41	Bolt M8x30	3
42	Fixed Bracket	1
43	Washer 8	2
44	Bolt M10x60	2
45	Belt Pulley	1
46	Screw M5x12	1
47	Tensioner Pulley	1
48	Circlip 15	1
49	Bearing 6202-2RS	2
50	Gear Box	1
51	Circlip 35	1
52	Large Belt Pulley Cover	1
53	Nut M6	3
54	Bolt M6x20	1
55	Wheel Axle Press Board	2
56	Support Plate (right)	1
57	Belt Plate	1
58	Connecting Angle Block	1
59	Bolt M6x25	2
60	Bolt M8x40	4
61	Bolt M10x65 w/glue	8
62	Nut M8	14
63	Cable Fixing Base	1
64	Rubber Mat	2
65	Support Plate (left)	1
66	Long Extension Spring	1
67	Skeleton Oil Seal	4
68	Weight Supporting Wheel Weldment	4
69	Bearing 6204-2RS	8
70	Washer 10	6
71	Bolt M10x25	6
72	Axle Head Cover(47)	4
73	Track 180x60	2
74	Axle Head Cover(42)	2
75	Circlip 42	8
76	Bear 61905-2RS	4

MINI TRACKED DUMPER

No.	Description	Q'ty
77	Guiding Wheel	2
78	Sealing Ring30X42X7	2
79	Nut M16	2
80	Bolt M16x110	2
81	Underframe Weldment	1
82	Guide Wheel Axle	1
83	Bolt M10X20	4
84	Support Bracket	1
85	Flat Gasket 16	2
86	Plain Shaft	1
87	Pin 4X35	2
88	Dumper Box	1
89	Operation Lever Frame	1
90	Handle Frame Weldment	1
91	Nut M12	1
92	Washer 12	2
93	Extension Spring	2
94	Handle Sleeve	1
95	Guiding Spring	2
96	Locating sleeve	2
97	Bolt M8X35	4
98	Pin 5x30	1
99	Gearshift Lever	1
100	Pin 3*30	1
101	Bolt M8*12 w/glue	1
102	Orientation Nut	1
103	Washer GroupwareD20	1
104	O-Ring 11.2x1.8	1
105	Lever Mount Bracket	1
106	Seal F B17X40X7	2
107	Spline Shaft II	1
108	Duplex Slip Gear	1
109	Gear	1
110	Bearing 6302	1
111	Gearshift Fork Guide Pin	1
112	Spring	1
113	Steel Ball 6	1
114	Gearshift Fork	1

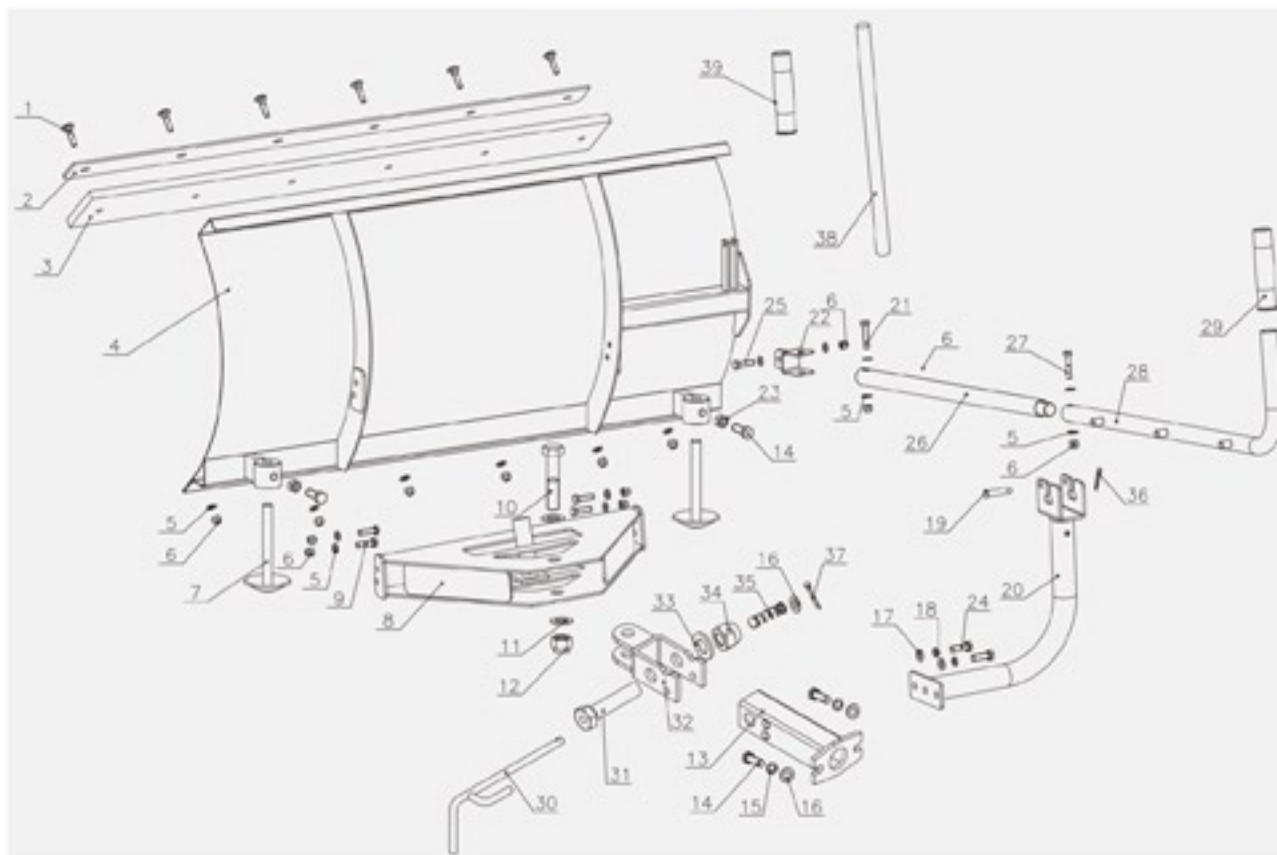
No.	Description	Q'ty
115	Circlip 12	1
116	Rivet Assembly	1
117	Brake Disk	1
118	Joint Bolt	3
119	Plate	1
120	Brake Pull Plate	1
121	Washer6	4
122	Washer6	2
123	Bolt M6x16	4
124	Expansion Brake Cover	1
125	Stud	1
126	Vent-Plug Bushing	1
127	Vent-Plug	1
128	Screw M8X30	3
129	Expansion Brake Lock Bolt	3
130	Screw M8X130	6
131	Clutch Fork Shaft (L)	1
132	Bolt M6X20	3
133	Swing Plate	2
134	Gear III-4	1
135	Gear III-3	1
136	Large Belt Pulley	1
137	Bearing 6303	5
138	Gear II-5	1
139	Gear II-4	1
140	Gear II-3	1
141	Gear II-2	1
142	Gear III-2 Bush	1
143	Gear III-2	1
144	Gear Shaft III	1
145	Gear Box Case ( L )	1
146	Plug M14x1.5	2
147	Washer Groupware 14	2
148	Gear Box Case	1
149	Output Shaft	2
150	Gear II-1	1
151	Bush 2	1
152	Bush 1	1

No.	Description	Q'ty
153	Key C5x20	2
154	Spline Shaft II	1
155	Clutch Fork Shaft (R)	1
156	Gear Box Case ( R)	1
157	Pin 12x20	2
158	Seal FB16x22x4	2
159	Output Shaft Bush Gasket	2
160	Gasket 1	4
161	Clutch Spring	2
162	Spring Guide Bush	2
163	Clutch Sleeve	2
164	Spring Gasket	2
165	Steel Ball 5	70
166	Circlip 58	2
167	Output Gear	1
168	Intermediate Joint Bush	1
169	Intermediate Joint Bush Composite Bushing	2
170	Circlip 26	2
171	Joint Bush	2
172	Spring Gasket	4
173	Circlip 25	2
174	Washer 8	10
175	Output Shaft Bushing	2
176	Seal FB25x42x7	2
177	Output Shaft Composite Bushing	4
178	Guard Cover	1
179	Bolt M8x30	2

GB

# Plow Blade (Optional)

GB

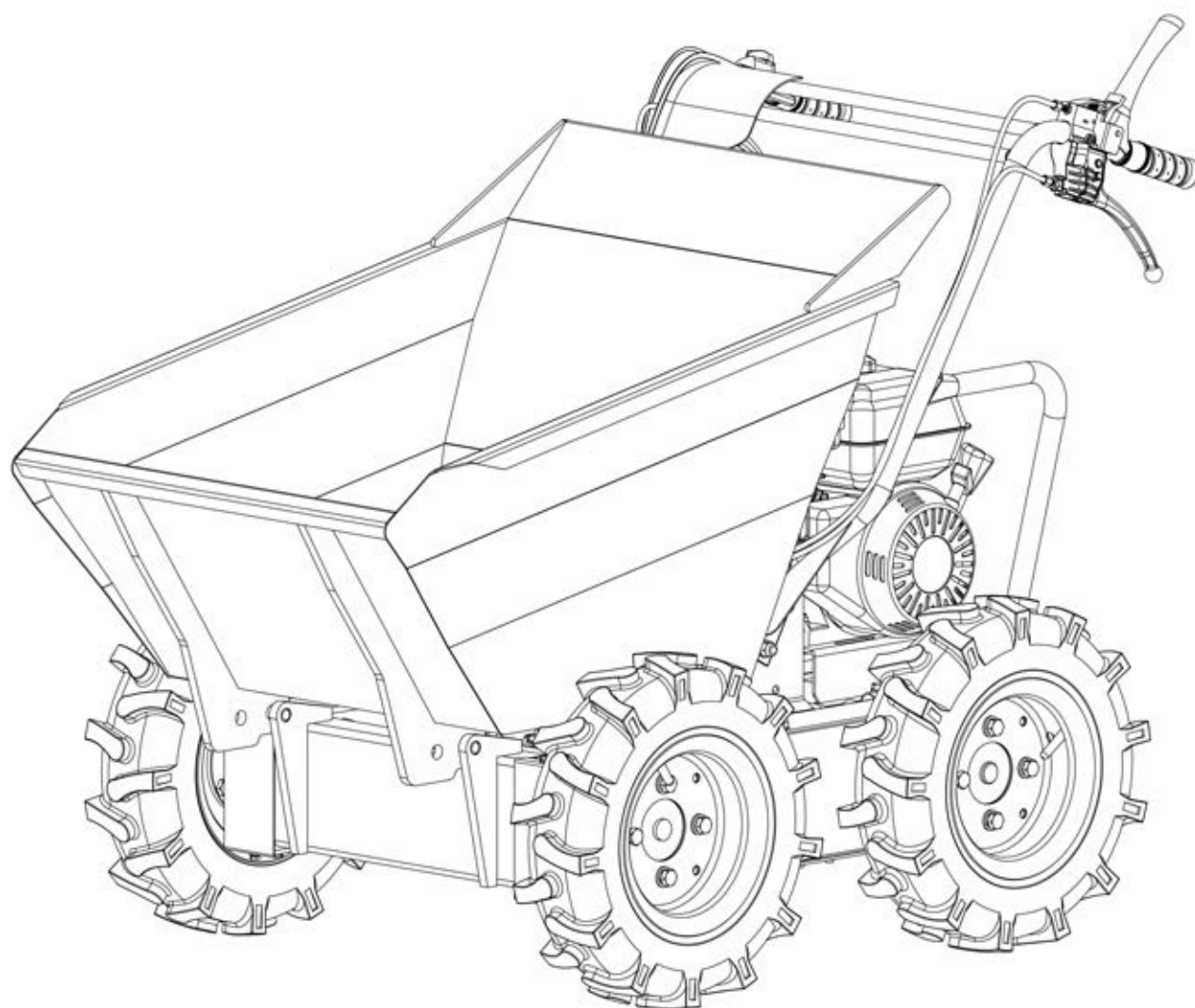


## Parts List

No.	Description	Q'ty
1	Bolt M8X35	6
2	Shave Plate	1
3	Rubber Plate	1
4	Blade Weldment	1
5	Washer8	16
6	Nut M8	13
7	Landing Leg Weldment	2
8	Blade Fixed Bracket Weldment	1
9	Bolt M8X30	4
10	Bolt M20X95	1
11	Washer20	2
12	Nut M20	1
13	Blade Connecting Bracket Weldment	1
14	Bolt M12X40	4
15	Washer12	2
16	Washer12	3
17	Washer10	2
18	Washer10	2
19	Pin 10X60	1
20	Curved Support Bracket Weldment	1

No.	Description	Q'ty
21	Bolt M8X50	1
22	Active Connecting Weldment	1
23	Nut M12	2
24	Bolt M10X25	2
25	Bolt M8X35	1
26	Adjusting Rod Weldment B	1
27	Bolt M8X40	1
28	Adjusting Rod Weldment A	1
29	Handle Sleeve 28	1
30	Limiter Rod Wedment	1
31	Bolt M24X110	1
32	Limiter Weldment	1
33	Washer24	1
34	Lock Nut M24	1
35	Spring	1
36	Bridge Pin 2X11X35	1
37	Pin 4x40	1
38	Handle Grip 2	1
39	Handle Sleeve 25	1





# Powered Wheelbarrow

## Operator's Manual

**MODEL NUMBER :** QTP300N

**SERIAL NUMBER :** \_\_\_\_\_

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

### FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE OPERATING  
MACHINE**



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## INTRODUCTION

Your new powered wheelbarrow will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.	QTP300N	
Engine	196cc, 4.8kW/3600/min	
Transmission	3F+1R	
Load Capacity	300 kg	
Box Length	940 mm	
Box Width	635 mm	
Box Depth	330 mm	
Sound power level ( LwA )	Measured	95 dB(A) k=2.51 dB(A)
	Guaranteed	100 dB(A)
Sound pressure level ( LpA )	84.7 dB(A) k=3 dB(A)	
Vibrating level on handlebar grips	3.92 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>	
Weight	145 kg	

## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Coution! Ignoring the safety signs and warnings applied on the machine as well as ignoring the security and operating instrutions can cause serious injuries and even lead to death.



Wear eye protection.  
Wear hearing protection.



Read these instructions for use carefully.



Wear safety footwear.



Wear safety gloves.



It is forbidden to remove or tamper with the protection devices and safety devices.



Do not smoke or have open flames.



Thrown objects.



Keep your hands clear from all rotating parts.



Keep bystanders away.



Keep away from hot parts on the machine.



Never start or run the engine inside a closed area.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Always turn off the engine before starting maintenance.

# SAFETY

## General Safety Rules

### Understand your machine

Read and understand the operator's manual and labels affixed to the machine. Learn its application and limitations as well as the specific potential hazards peculiar to it.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the **Engine Manufacturer's** Manual, packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the **Engine** and how to avoid accidental injuries and/or property damage.

### Work area

Never start or run the machine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well ventilated outdoor area.

Never operate the machine without good visibility or light.

### Personal safety

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly. Wear heavy long pants, boots and gloves. Do not wear loose clothing, short pants, and jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

Use safety equipment. Always wear eye protection. Safety equipment such as a dust mask, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc. are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace



damaged, missing or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Never remove or tamper with safety device. Check their proper operation regularly.

Do not use the machine if the engine's switch does not turn it on or off. Any gasoline powered machine that can not be controlled with the engine switch is dangerous and must be replaced.

Form a habit of checking to see that keys and adjusting wrenches are removed from machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Stay alert, watch what you are doing and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

Avoid accidental starting. Be sure the engine is off before transporting the machine or performing any maintenance or service on the unit. Transporting or performing maintenance or service on a machine with engine on invites accidents.

### **Fuel safety**

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor. Do not smoke, or allow sparks, open flames or other sources of ignition near the area while adding fuel or operating the unit. Never fill fuel tank indoors.

Keep grounded conductive objects, such as tools, away from exposed, live electrical parts and connections to avoid sparking or arcing. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loose the fuel tank cap slowly to relieve any pressure in the tank.

Never over fill fuel tank. Fill tank to no more than 12.5mm (1/2") below the bottom of the filler neck to provide space for expansion as the heat of the engine can cause fuel to expand.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

Store fuel in containers specifically designed and approved for this purpose.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames or other sources of ignition.

Never store fuel or machine with fuel in the tank inside a building where fumes may reach a spark, open flame, or other sources of ignition, such as a water heater, furnace, clothes dryer and the like. Allow the engine to cool before storing in any enclosure.

### **Machine use and care**

Position the machine in such a way that it can not move during maintenance, cleaning, adjustment, assembly of accessories or spare parts, as well as under storage.

Do not force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.

Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.

Do not run the engine at a high speed when you are not working.

Do not put hands or feet near rotating parts.

Avoid contact with hot fuel, oil, exhaust fumes and hot surfaces. Do not touch the engine or muffler. These parts get extremely hot from operation. They remain hot for a short time after you turn off the unit. Allow the engine to cool before doing maintenance or making adjustments.

If the machine should start to make an unusual noise or vibration, immediately shut off the engine, disconnect the spark plug wire, and check for the cause. Unusual noise or vibration is generally warning of trouble.



Use only attachments and accessories approved by the manufacturer. Failure to do so can result in personal injury.

Maintain the machine. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machine's operation. If damaged, have the machine repaired before use. Many accidents are caused by poorly maintained equipment.

Keep the engine and muffler free of grass, leaves, excessive grease or carbon build up to reduce the chance of a fire hazard.

Never douse or squirt the unit with water or any other liquid. Keep handles dry, clean and free from debris. Clean after each use.

Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

Store idle machine out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate it. Machine is dangerous in the hands of untrained users.

### Service

Before cleaning, repair, inspecting, or adjusting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

Have your machine serviced by qualified repair personnel using only identical replacement parts. This will ensure that the safety of the machine maintained.

### Specific Safety Rules

Thoroughly inspect the area to be worked, keep the working area clean and free of debris to prevent tripping. Operate on a flat level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, and operation, maintenance, repairing or moving.

Keep all bystanders, children, and pets at least 23m (75 feet) away. If you are approached, stop the unit immediately.

Do not mount on dump box and never carry passengers.

Never park the machine in a place with unstable ground which could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet well away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large stones.

Walk, never run with the machine.

Do not overload the machine capacity. Drive at a safe speed, adjusting the speed to the slope of the land, the surface conditions of the road, and the weight of the load.

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground as the machine may tend to skid.

If possible, avoid driving on pebbly river bed, crushed stone terrains, steel concrete, stumpy field, logs etc., since such operation causes fatal damage or shortens life span of tracks.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

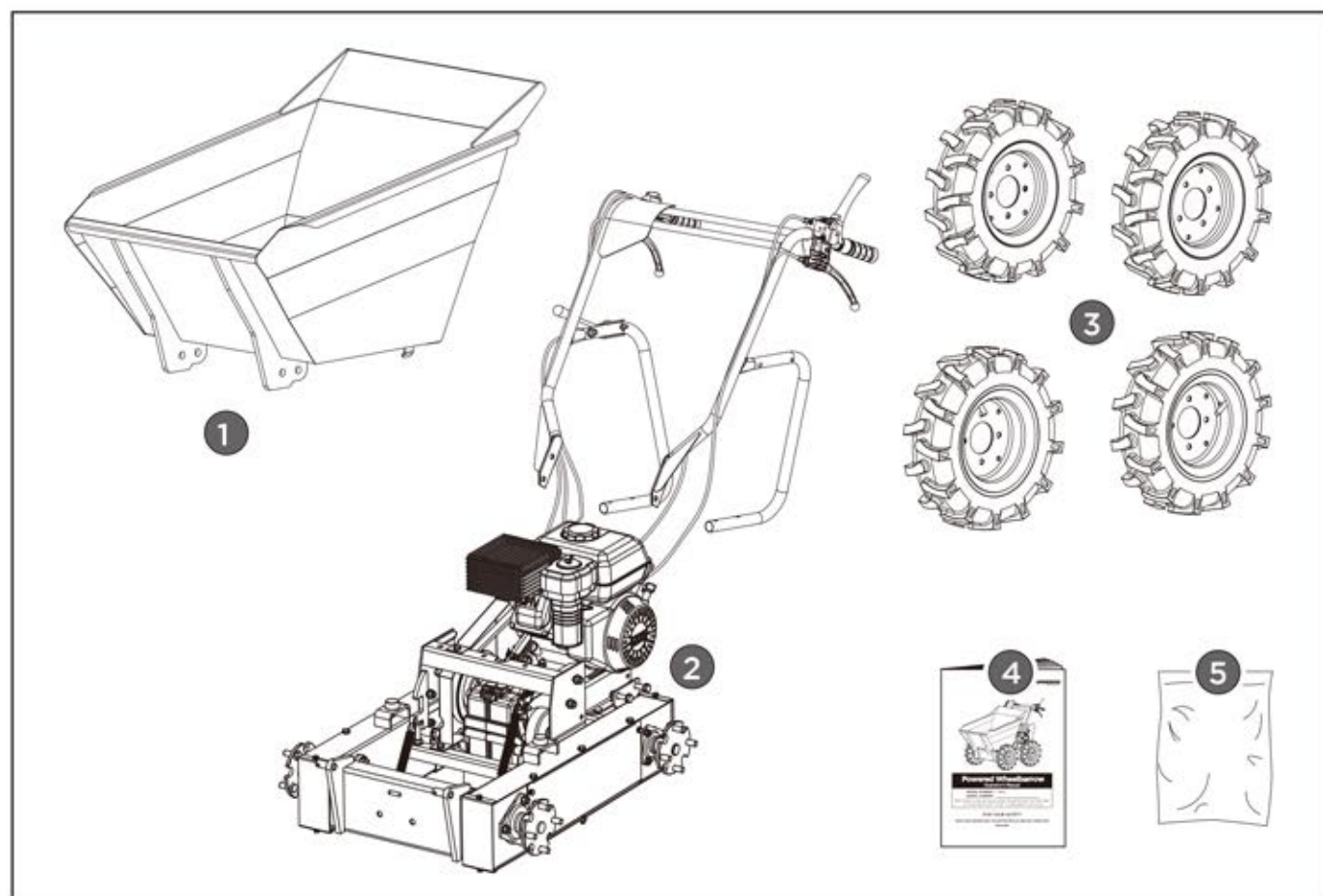
Never operate the machine on slopes where angle is over 20°.

When moving over a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always move in directions parallel with the slope (up or down). To avoid danger, do not shift gears on slopes.

When tipping the load from a dumper, the centre of gravity will change continuously and the ground conditions will be essential for the stability of the machine. There are special hazards for dumpers working on soft ground and when the load is sticking to body e.g. wet clay.

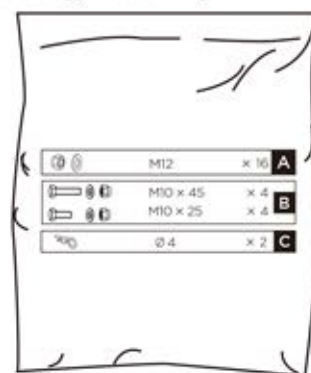
# CONTENTS SUPPLIED

The powered wheelbarrow comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Dump Box
2. Main Frame
3. Wheels
4. Operator's Manual

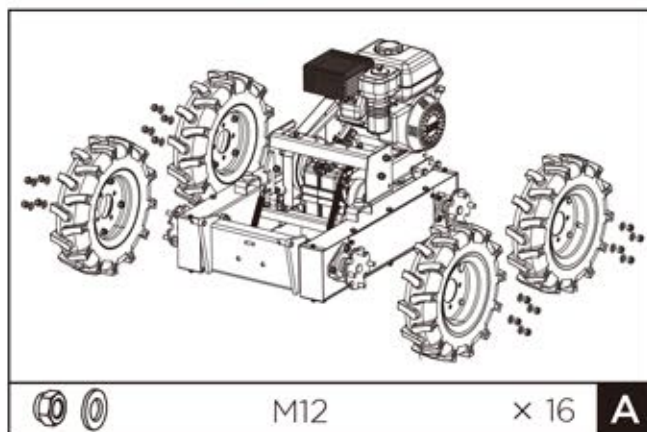
5. Hardware Bag, including



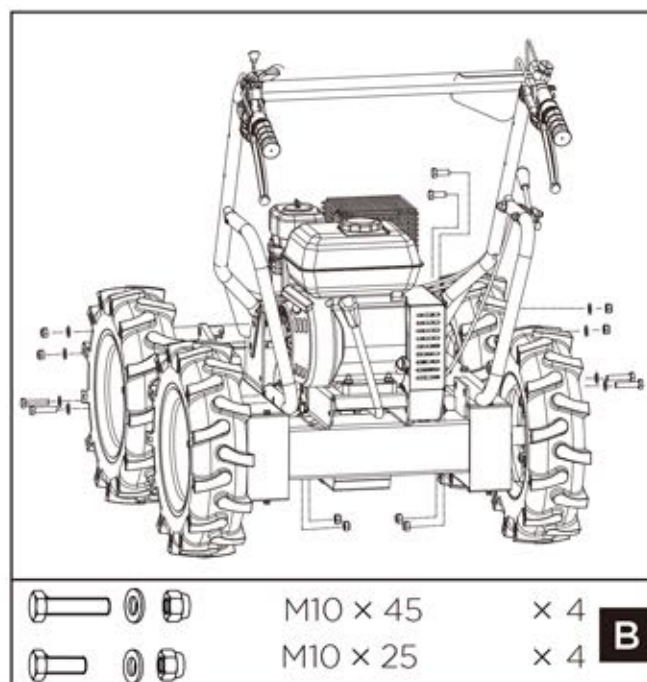
## ASSEMBLY

Following the assembly directions below, you will assemble the machine in a few minutes.

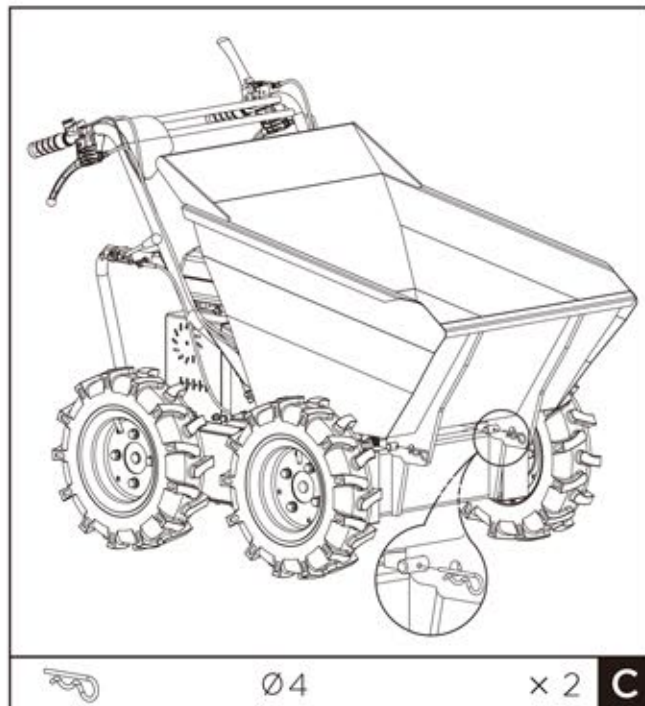




Mount the wheels and fasten them with M12 nuts.



Mount the handle frame assembly to the chassis and secure it with M10X25 bolts, washers and nuts at the front and M10X45 bolts, washers and nuts at the rear.



Install the dump box and fasten the front with two Ø 4 R-clips.

### Engine oil

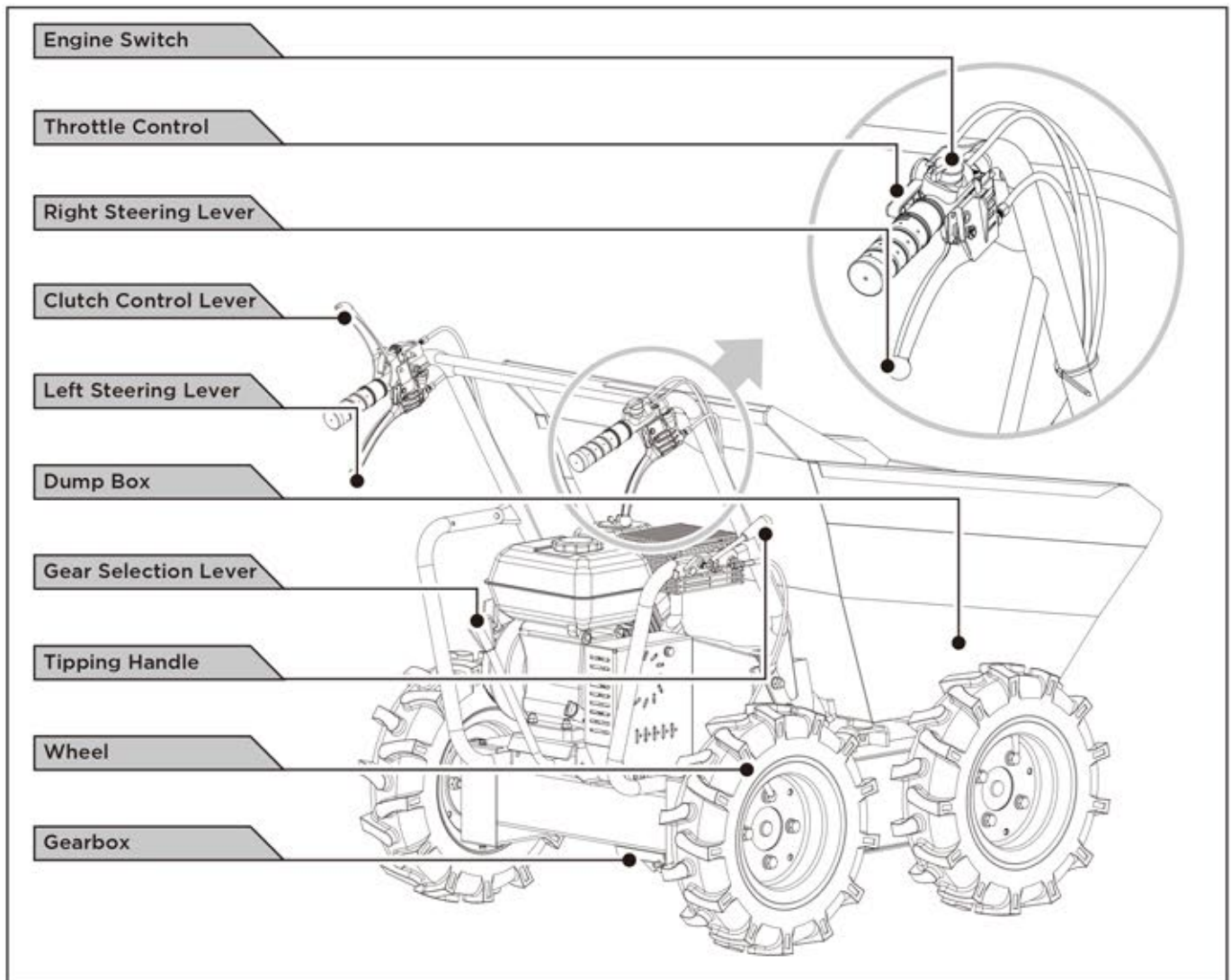


**Oil has been drained for shipping. Failure to fill engine sump with oil before starting engine will result in permanent damage and will void engine warranty.**

Add oil according to **Engine** Manual packed separately with your unit.

# KNOW YOUR POWERED WHEELBARROW

## Features and Controls



### Engine switch

The engine switch enables and disables the ignition system.

The engine switch must be in the ON position for the engine to run.

Turning the engine switch to the OFF position stops the engine.

### Clutch control lever

Squeeze the control lever, clutch engaged.  
Release the lever, clutch disengaged.

### Throttle control

It controls engine speed. Put the throttle control on low speed (L) or high speed (H) or an intermediary position between L and H to increase or decrease the speed of engine.

### Left steering lever

Operate the lever to turn left.

### Right steering lever

Operate the lever to turn right.

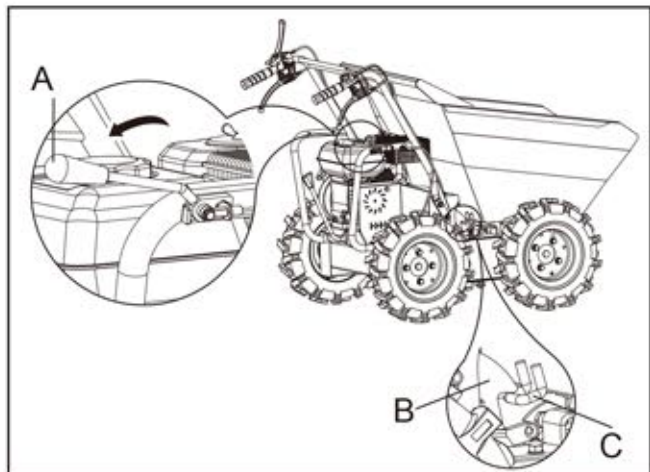
### Gear selection lever

It controls forward or reverse movements of the machine.

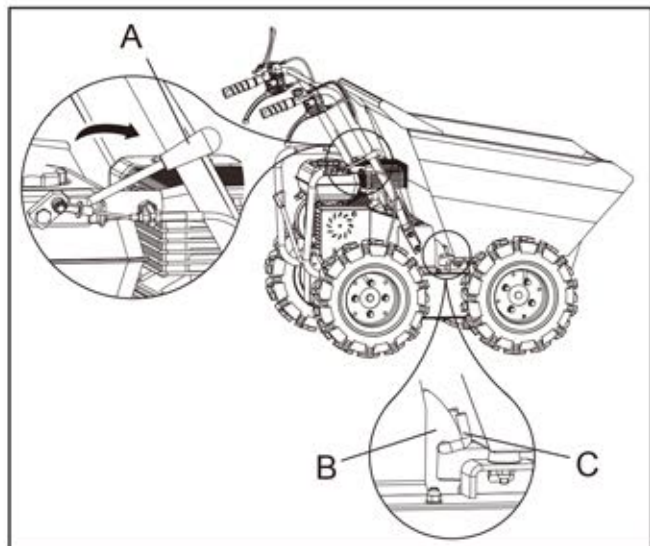


## Tipping handle

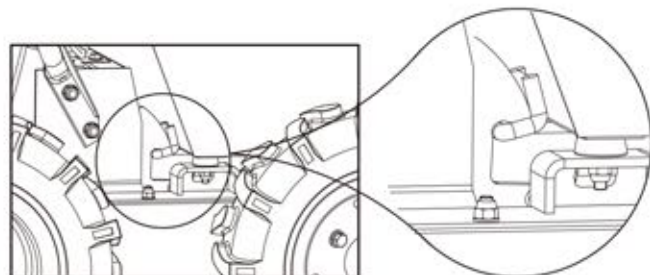
It controls tipping of the dump box. Swing tipping handle A in the direction of the arrow to release limiter B out of hook C. The dump box will be released.



After tipping the load, swing handle A back to reset limiter B into hook C, which will lock the dump box.



Before you start to use the dumper, please check the dump box to make sure it is locked as shown in the diagram below.



## Powered Wheelbarrow Operation

### Adding fuel

Fill the fuel tank as instructed in the separate **Engine Manual** packed with the machine.



Fill tank to no more than 12.5mm (1/2") below the bottom of the filler neck to provide space for expansion.

### Starting engine

A more detailed description of the engine operation and all related precautions and procedures can be found in the **Engine Manual** packed separately with the powered wheelbarrow.

Follow the procedure below for cold starts:

1. Turn choke lever on the engine to full choke position.
2. Set the throttle lever on the handlebar at half-way position.
3. Turn the engine switch on.
4. Pull the starting rope slowly several times to allow the gasoline to flow into the engine's carburetor. Then hold the start handle firmly and pull rope out a short distance until you feel some resistance. Then pull the rope smoothly and briskly, and allow rope to return gently. Do not let the rope snap back. If necessary, pull the rope several times until the engine starts.
5. Allow the engine to run for several seconds to warm up. Then, gradually move choke lever to "OPEN" position.

Restarting an engine that is already warm from previous running does not normally require use of the choke.

1. Set the throttle lever on the handlebar at half-way position.
2. Hold the start handle firmly and pull rope out a short distance until you feel some resistance. Then pull the rope smoothly and briskly, and allow rope to return gently. Do not let the rope snap back.



## Operating

After engine warms up, pull throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage straight away, slowly release the clutch lever and try again. In this way the powered wheelbarrow will start moving.

The powered wheelbarrow has the steering levers on the handlebars and this makes steering very easy. To turn right or left, simply operate the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and that with the empty machine, a light pressure on the lever is all that is needed to turn. While when the machine is loaded, more pressure is required.

The powered wheelbarrow has a maximum capacity of 300kg. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.

Avoid sharp turns and frequent changes of direction while driving on the road, in particularly on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the powered wheelbarrow unstable.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the wheels.

## Idle speed

Set throttle control lever to its "SLOW" position to reduce stress on the engine when working is not being performed. Lowering the engine speed to idle the engine will help extend the life of the engine, as well as conserve fuel and reduce the noise level of the machine.

## Stopping engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure.

1. Move the throttle lever to the SLOW position.
2. Let engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF position.



Do not move choke control to CHOKE to stop engine. Backfire or engine damage may occur.

# MAINTENANCE

A proper maintenance and lubrication will help the machine in a perfect working condition.

## Preventive maintenance

Turn off engine and disengage all command levers. Engine must be cool.

Inspect the general condition of the unit. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.

Remove all debris and other materials that may have accumulated to the track and unit. Clean after each use. Then use a premium quality lightweight machine oil to lubricate all moving parts.



Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.

## Adjusting clutch

As clutch wears out, the same lever could have a wider opening, being so uneasy to use. This means that it is necessary to adjust the cable, setting clutch lever on its original position acting on the adjustment device and on counter-nut.



### Adjusting steering

If you have difficulty steering the unit, you will need to adjust the steering levers with the special adjusters. Slacken off the locknut and unscrew the adjusters to eliminate the play in the cable, which can occur after initial use or normal wear. Be very careful not to unscrew the adjusters too much because this can create another problem: the loss of traction. Remember to tighten the locknut when you have finished.

### Lubrication

The gearbox is pre-lubricated and sealed at the factory.

Check oil level every 50 hours of working. Remove the plug and check, with machine horizontal, oil reaches the two notches. If necessary, add the oil.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

Oil must be replaced when hot by unscrewing filler cap and plug equipped with an oil dipstick. When oil is completely drained, replace filler cap and fill up with new oil.

### Tire pressure

Check the pressure of tires periodically to make sure they are properly inflated. Recommended pressure is 30psi for all the tires.



Separation of tire and rim parts is possible when they are serviced incorrectly.

1. Do not attempt to mount a tire without the proper equipment and experience to perform the job.
2. Do not inflate the tires above the recommended pressure.
3. Do not weld or heat a wheel and tire assembly. Welding can structurally weaken or deform the wheel. Heating can cause an increase in the air pressure resulting in burst.
4. Do not stand in front or over the tire assembly while inflating.

### Engine maintenance

Refer to the **Engine Manual** included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

## STORAGE

If the powered wheelbarrow will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



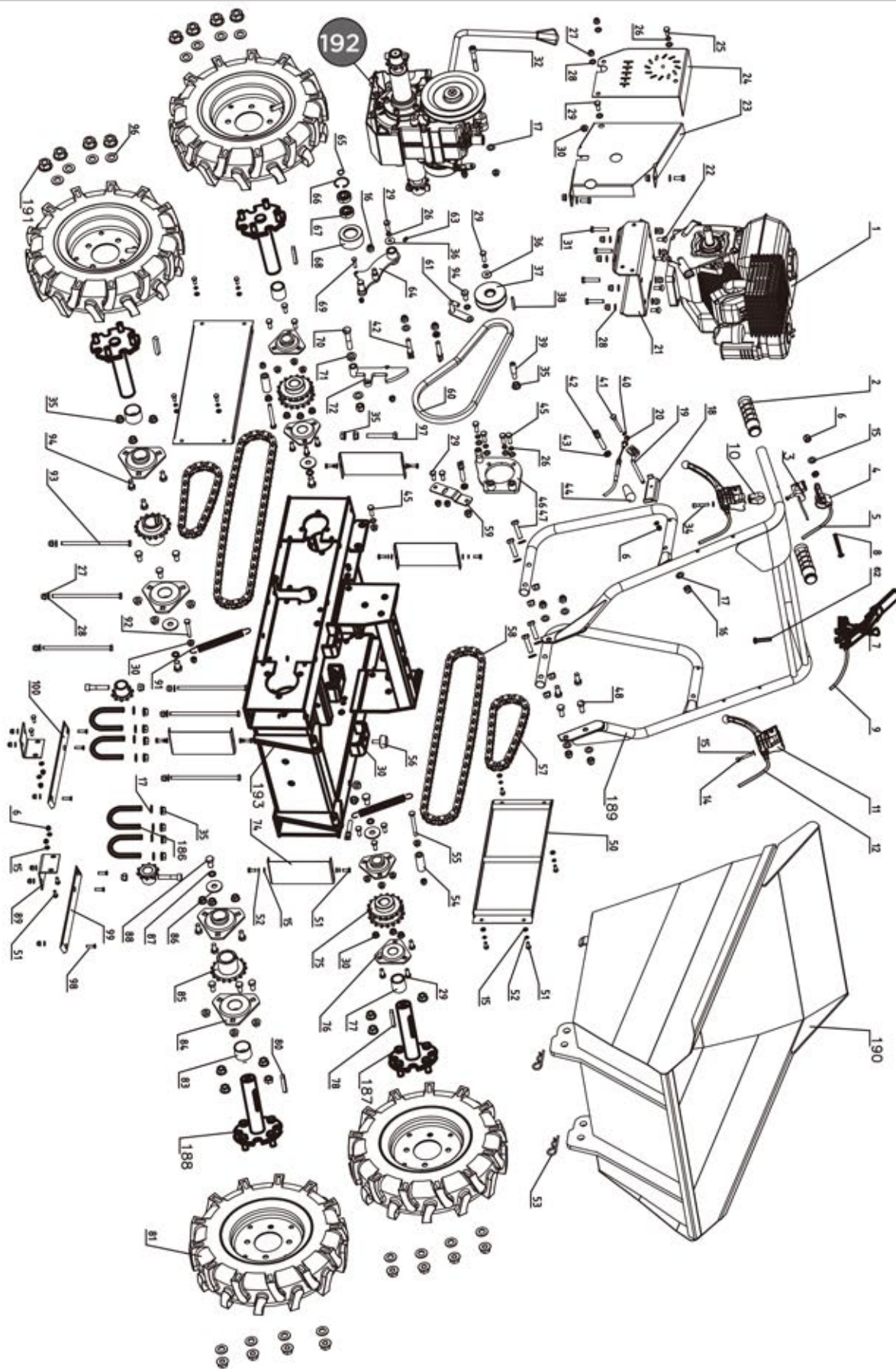
Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.

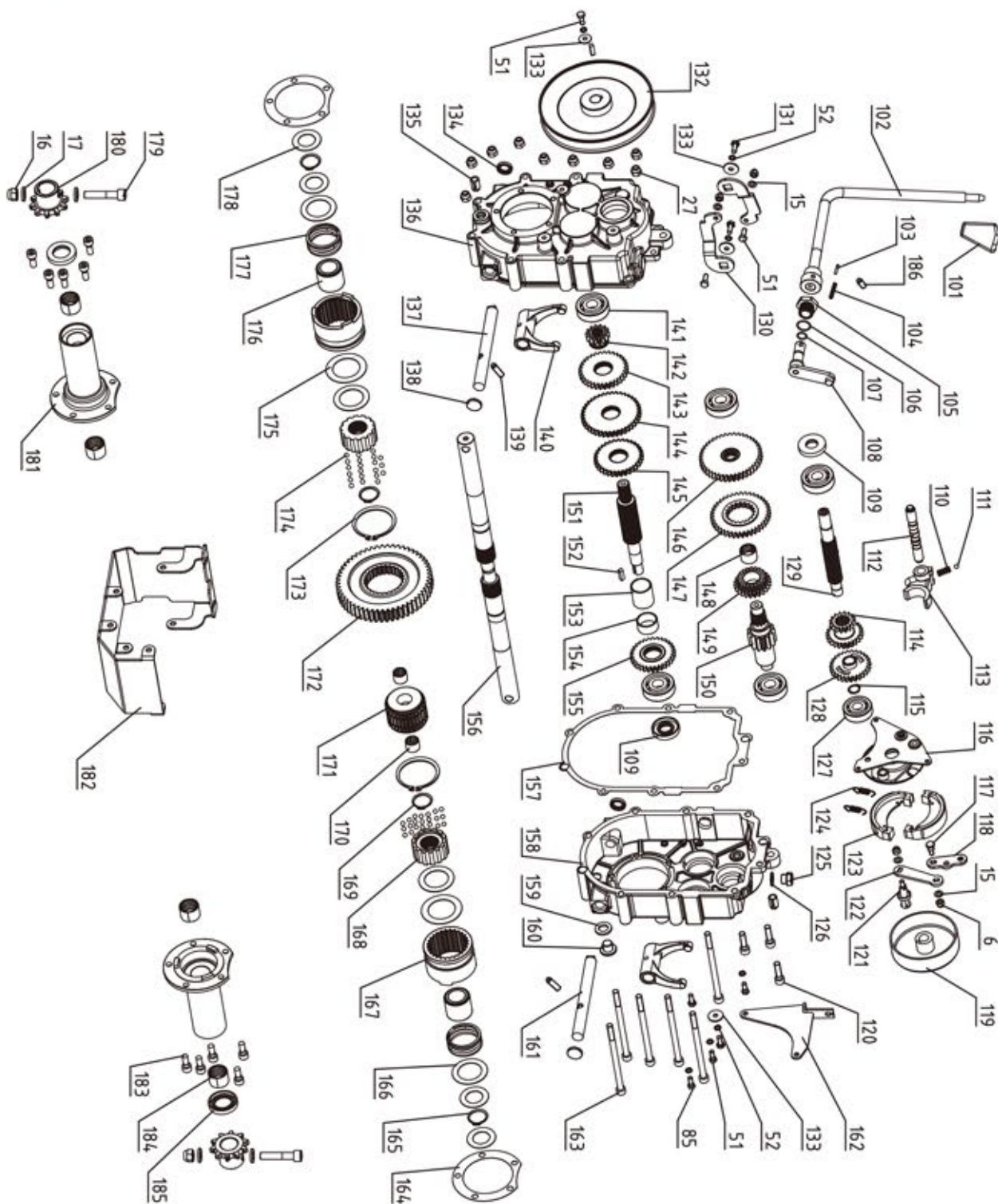
# TROUBLE SHOOTING

Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"> <li>1. Spark plug wire disconnected.</li> <li>2. Out of fuel or stale fuel.</li> <li>3. Choke not in open position.</li> <li>4. Blocked fuel line.</li> <li>5. Fouled spark plug.</li> <li>6. Engine flooding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug.</li> <li>2. Fill with clean, fresh gasoline.</li> <li>3. Throttle must be positioned at choke for a cold start.</li> <li>4. Clean the fuel line.</li> <li>5. Clean, adjust gap, or replace.</li> <li>6. Wait a few minutes to restart, but do not prime.</li> </ol>
Engine runs erratically.	<ol style="list-style-type: none"> <li>1. Spark plug wire loose.</li> <li>2. Unit running on CHOKE.</li> <li>3. Blocked fuel line or stale fuel.</li> <li>4. Vent plugged.</li> <li>5. Water or dirt in fuel system.</li> <li>6. Dirty air cleaner.</li> <li>7. Improper carburetor adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire.</li> <li>2. Move choke lever to OFF.</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li> <li>4. Clear vent.</li> <li>5. Drain fuel tank. Refill with fresh fuel.</li> <li>6. Clean or replace air cleaner.</li> <li>7. Refer to <b>Engine Manual</b>.</li> </ol>
Engine overheats.	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Dirty air cleaner.</li> <li>3. Air flow restricted.</li> <li>4. Carburetor not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil.</li> <li>2. Clean air cleaner.</li> <li>3. Remove housing and clean.</li> <li>4. Refer to <b>Engine Manual</b>.</li> </ol>
Machine does not move while engine is running.	<ol style="list-style-type: none"> <li>1. Gear is not properly selected.</li> <li>2. Drive belt not tight enough.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears.</li> <li>2. Tighten drive belt.</li> </ol>

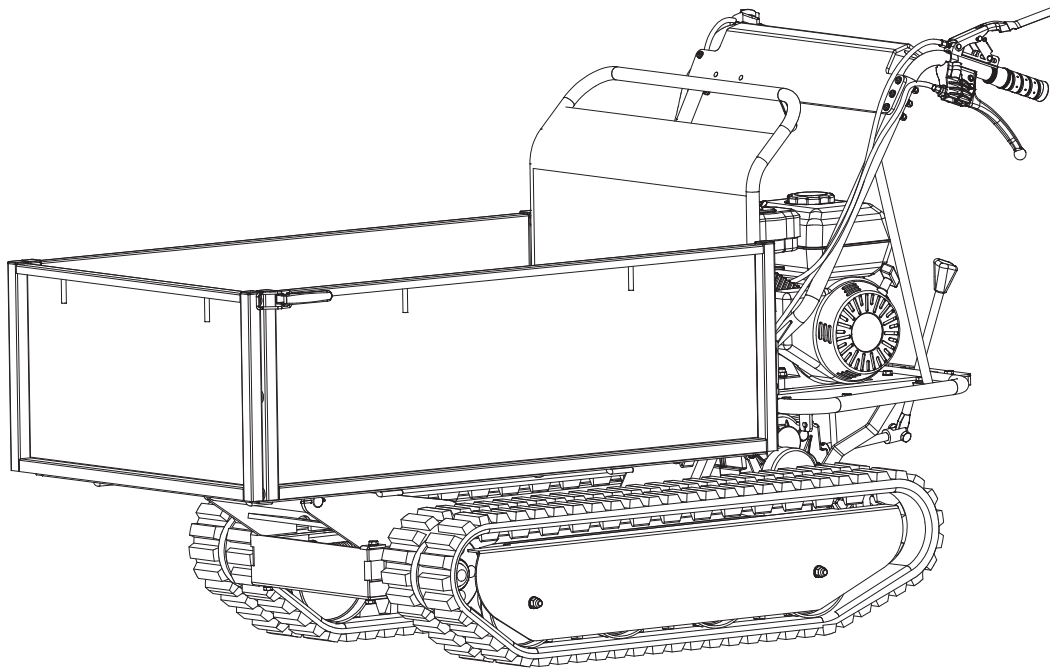


# PARTS SCHEDULE









# Mini Tracked Dumper

## Operator's Manual

**MODEL NUMBER :**      ☐ QTP500B

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**

## TABLE OF CONTENTS

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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.	QTP500B	
Engine	196cc, 6.5HP	
Transmission	3F+1R	
Load Capacity	500 kg	
Box Length	1025-1155 mm	
Box Width	600-860 mm	
Box Depth	325 mm	
Track Width	180 mm	
Sound power level	101 dB(A) $k=2$ dB(A)	
Sound pressure level	81.5 dB(A) $k=2$ dB(A)	
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
	Right	11.3 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
Weight	228 kg	

## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper  
with the protection and safety  
devices.



No smoking, sparks, or flames



Do not touch parts that are hot  
from operation. Serious burns  
may result.



Keep your hands clear from all  
rotating parts.



Never start or run the engine  
inside a closed area.



Do not operate on slopes with  
angle over 20° or tip loading at  
an inclined position.



Be aware, objects may be  
thrown while in use.



The exhaust fumes are dangerous,  
containing carbon monoxide.  
Staying in the environment can  
lead to unconsciousness and  
death.



Always turn off the engine  
before starting maintenance.



Keep children and bystanders  
off and away.

GB

## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service



on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

## Specific Safety Rules

Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

**Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.**

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

Never operate the machine on slopes where angle is over 20°.

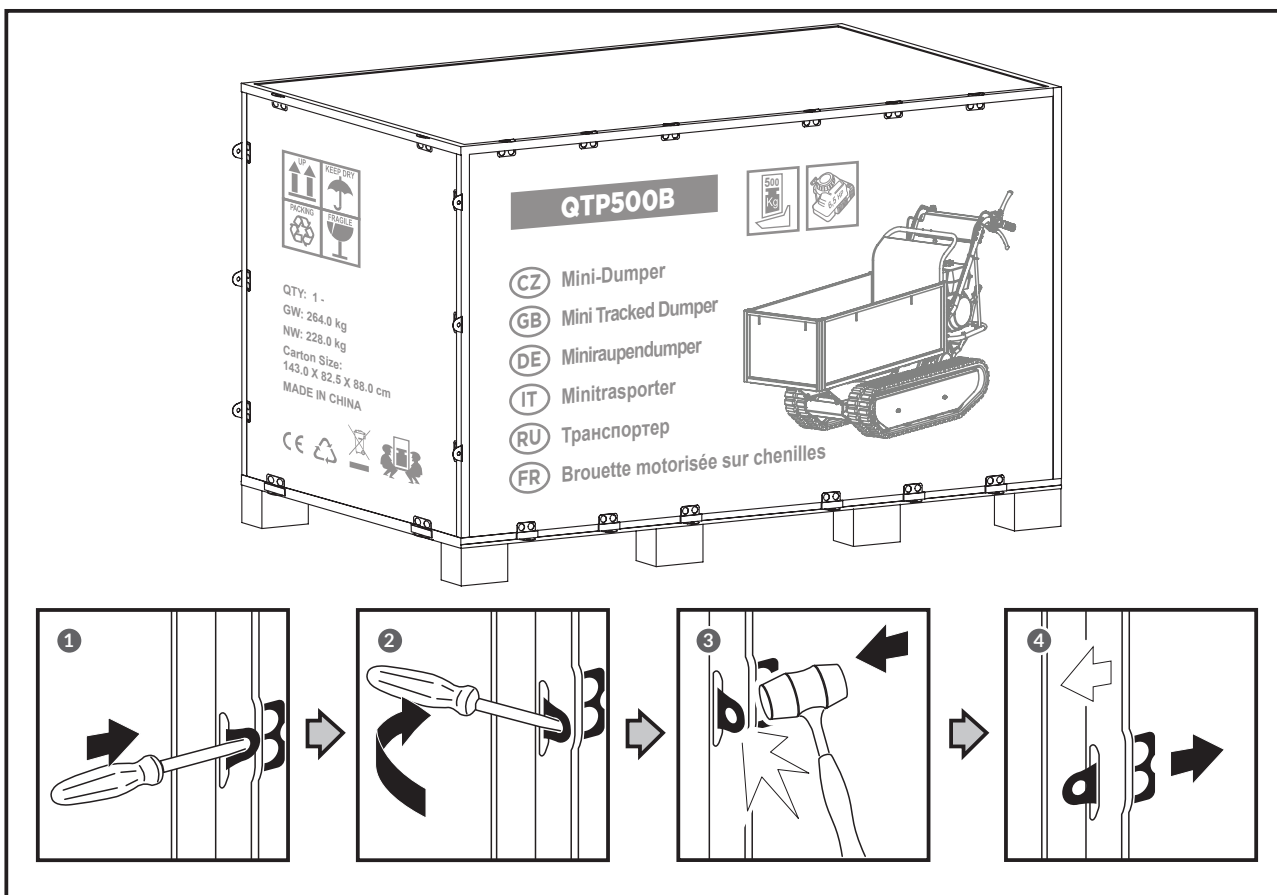
When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.

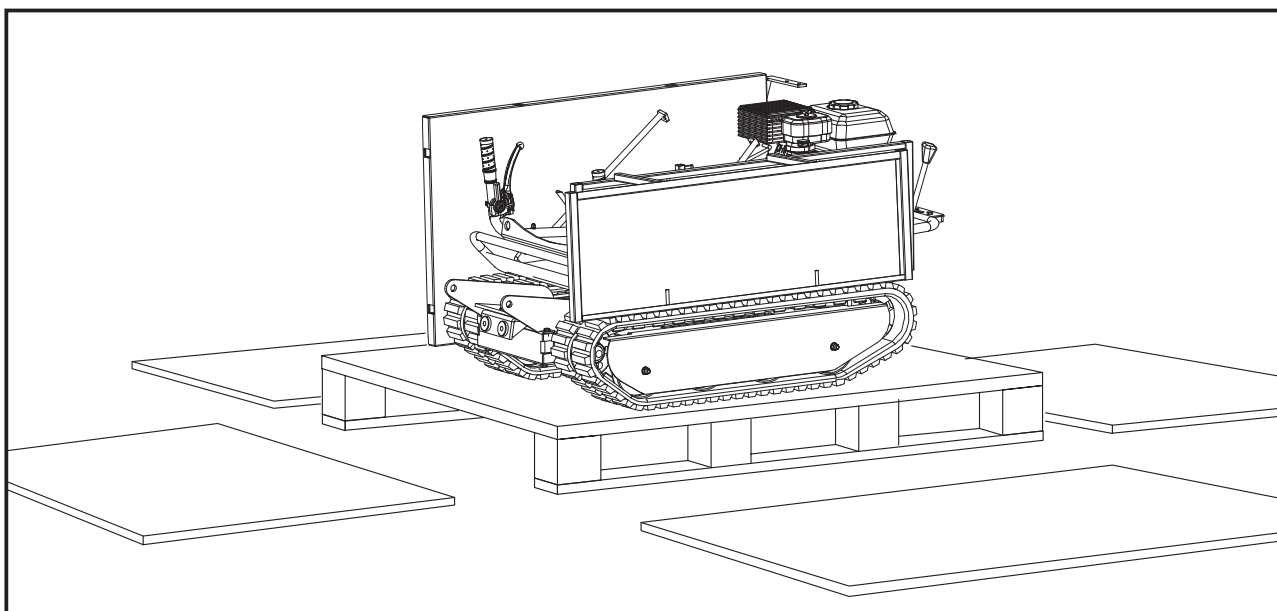
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



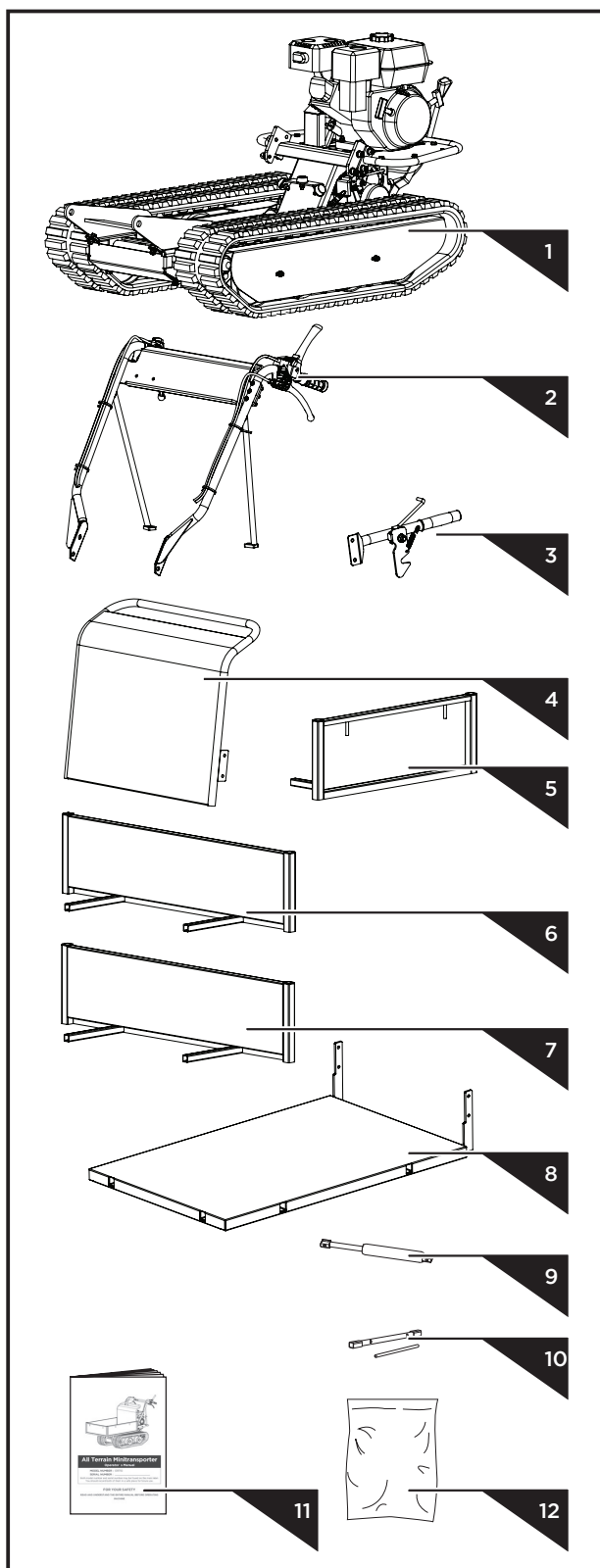
Remove all the plywood plates, and remove all the loose parts on the bottom pallets.



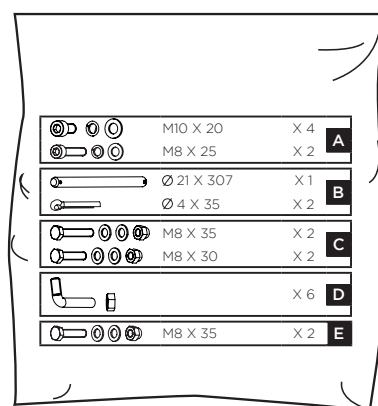


## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Main Frame
2. Handlebar Assembly
3. Tipping Handle
4. Engine Guard
5. Panel (Rear)
6. Extendable Left Side
7. Extendable Right Side
8. Panel (Bottom)
9. Gas Spring (Optional)
10. Tools for Spark Plug Assembly
11. Operator's Manual & Engine Manual
12. Hardware Bag, Including

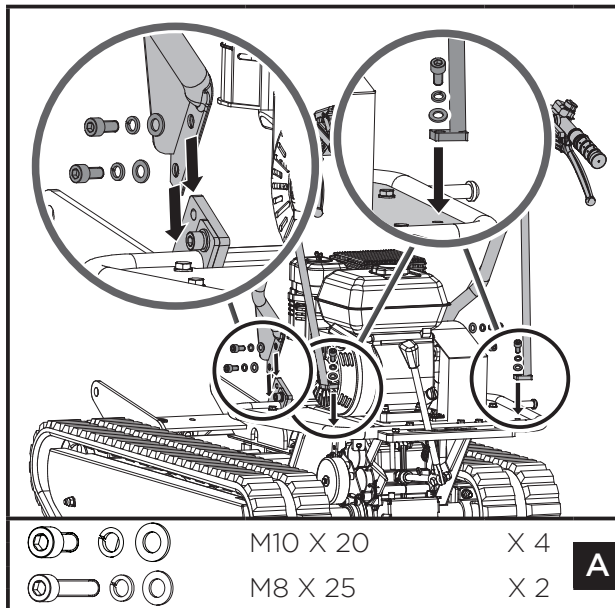


# ASSEMBLY

Following the assembly directions below, you will assemble the machine in a few minutes.

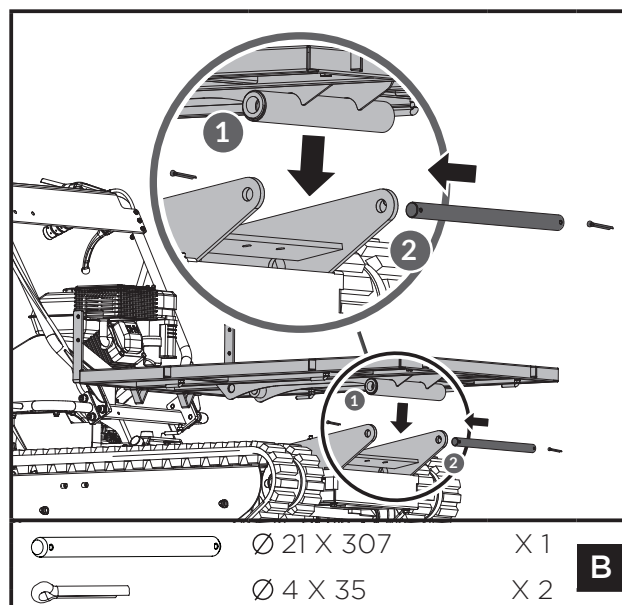
## Handlebar Assembly

Align the holes of the handlebar with the mount bracket and secure each with a spring washer, flat washer and a M10x20 bolt. Fasten each handlebar support onto the engine deck with a spring washer, flat washer and a M8x25 hex bolt.



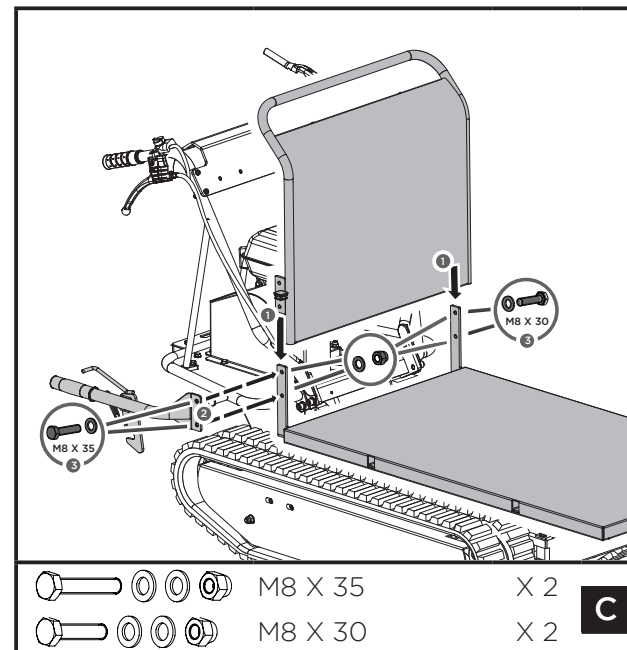
## Panel (Bottom)

Position the bottom panel inside the mounting bracket. Align the holes with the mounting bracket. Insert a long pin through holes and secure each side with a flat washer and cotter pin.



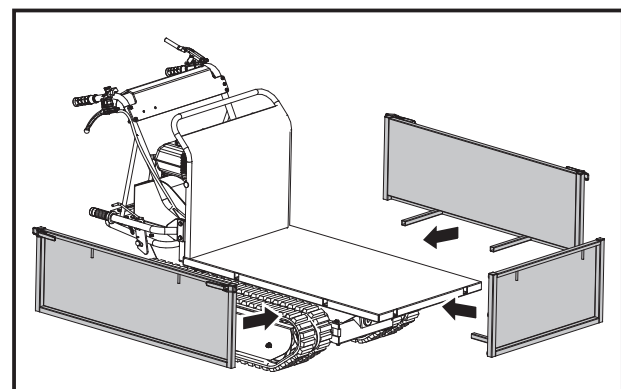
## Tipping Handle & Engine Guard

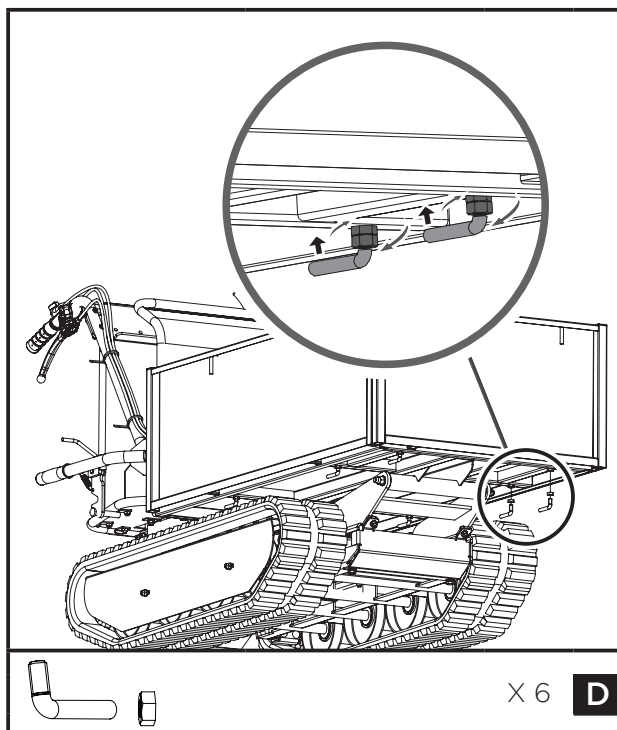
Place the engine guard inside the mounting bracket and align with the mounting bracket holes. Secure panel left side with two M8x30 hex bolts, four washers and two nuts. Mount the tipping handle on panel right side. Align holes and fasten with two M8x35 hex bolts, four washers and two nuts.



## Panel (Rear) & Extendable Left/Right Side

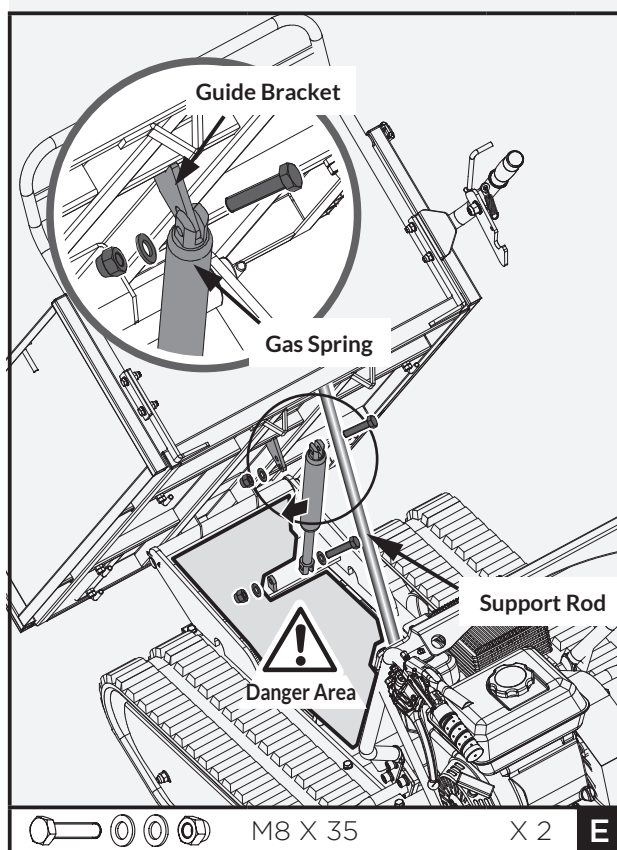
Insert the extendable sides into mounting slots located on the bottom panel and fasten each at the bottom with two L pins and locknuts.





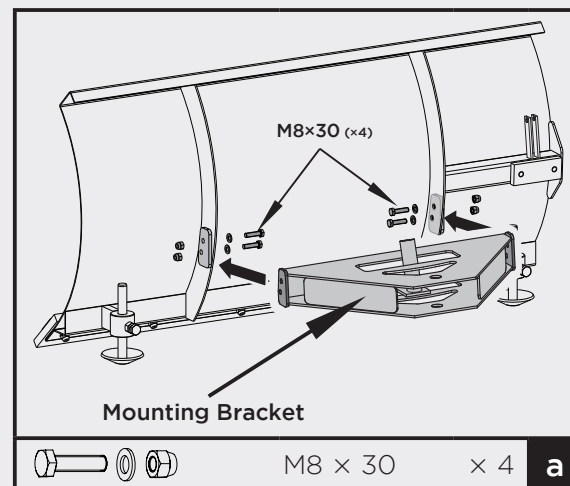
### Gas Spring (Optional)

Lift up the hopper and insert a support rod for safety purpose. Align the holes in the gas spring with the holes in both guide brackets and insert M8x35 bolts, washers and nuts to tighten.

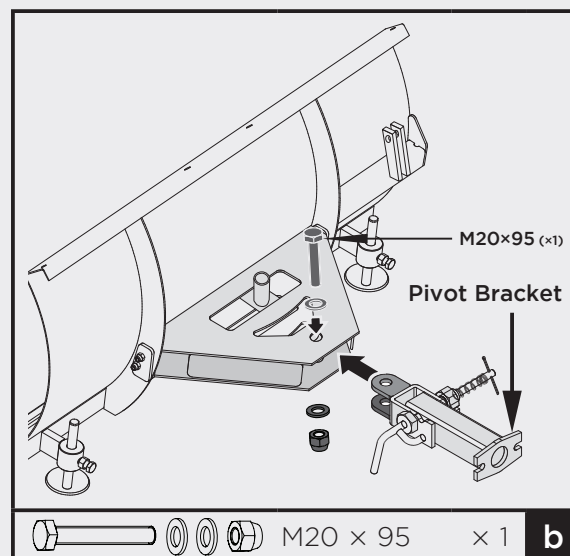


### Plow Blade (Optional)

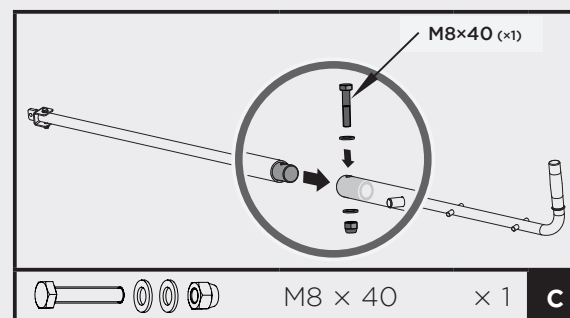
1. Mount the mounting bracket to the blade using M8x30 hex bolts, washers and nuts.



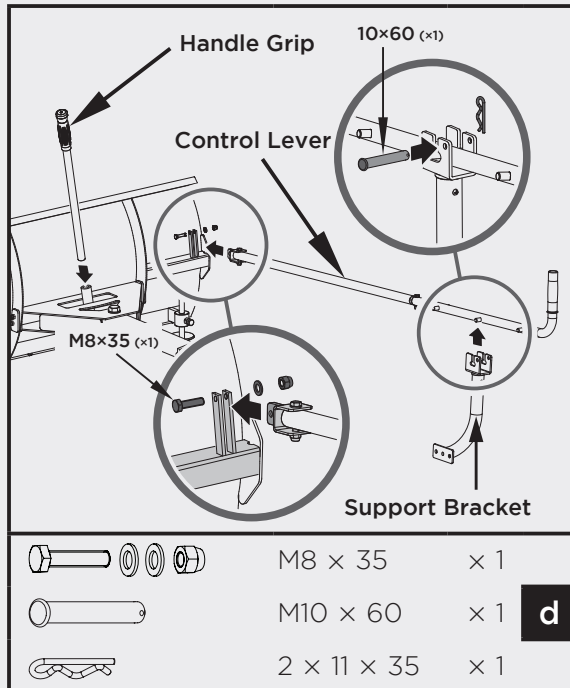
2. Position the pivot bracket inside the mounting bracket and align with mounting bracket holes. Secure with M20x95 hex bolt, washers and nut.



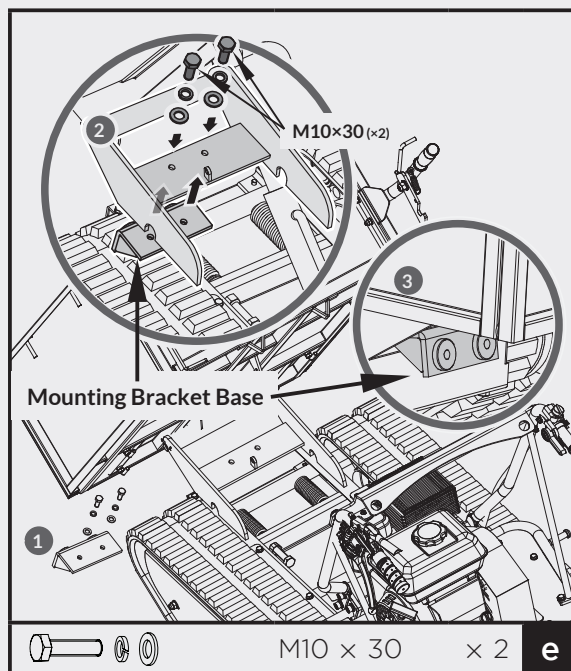
3. Insert the shorter control lever into the longer lever. Align holes and fasten with M8x40 hex bolt, washers and nut.



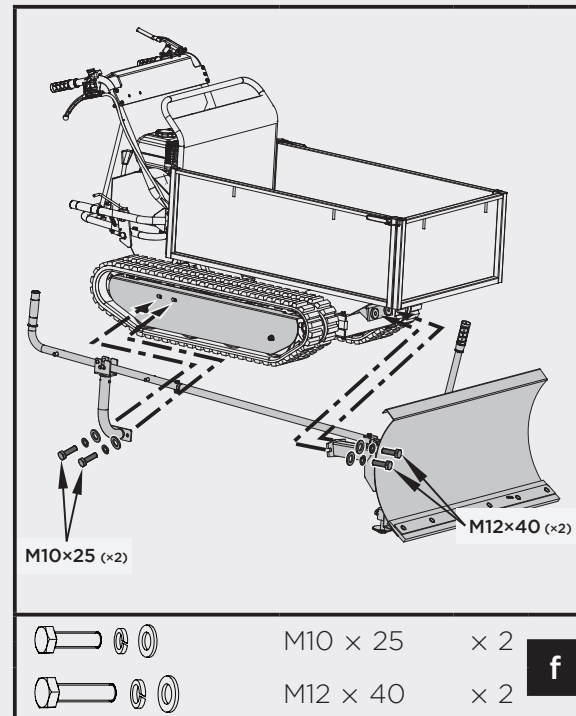
4. Attach control lever to the guide tube. Line up holes and fasten with M8×35 bolt, washers and nut.
5. Insert the handle grip into the holder.
6. Secure the support bracket into the control lever with pin 10×60 and bridge clip.



7. Install the mounting bracket base with two M10×30 bolts and washers.



8. Install the already assembled plow blade to the trackbarrow as shown.



### Engine Oil

**OIL HAS BEEN DRAINED FOR SHIPPING.**



**Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.**

Add oil according to **Engine Manual** packed separately with your tiller.



# KNOW YOUR MACHINE

## Features and Controls

Engine Switch

Throttle Control

Right Steering Lever

Clutch Control Lever

Left Steering Lever

Hopper

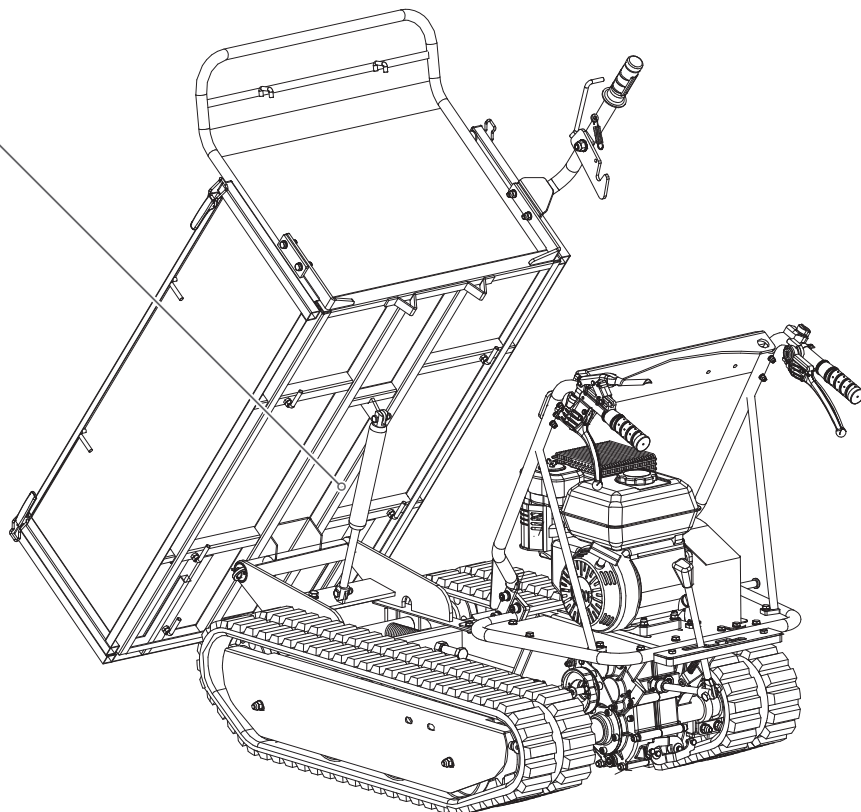
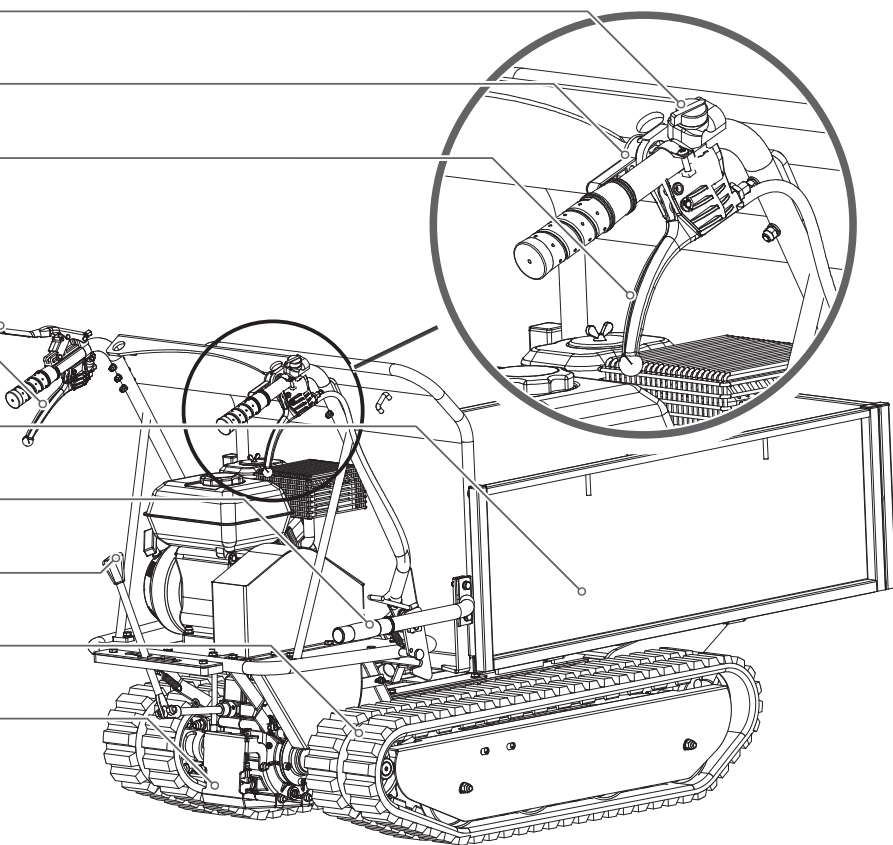
Tipping Handle

Gear Selection Lever

Track

Gearbox

Gas Spring Assistance

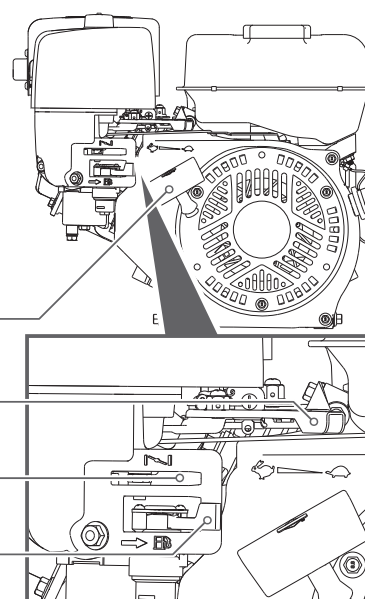


**Recoil Starter Handle**

**Throttle Control**

**Choke Control**

**Fuel Shut-Off Valve**



### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the power trackbarrow.**

Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the power trackbarrow.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**

### Gas Spring Assistance

The gas spring assistance provides support when lifting and lowering the hopper.

### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The recoil starter handle is used to start the engine.



### Fuel Shut-Off Valve

The fuel shut-off has two positions:

CLOSED (FD) - Use this position to service, transport, or to store the unit.



OPEN (EB) - Use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST , SLOW , and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED  and CHOKE OPEN  positions.



**Never use choke to stop engine.**

### Clutch Control Lever

Squeeze the control lever, clutch engaged.  
Release the lever, clutch disengaged.

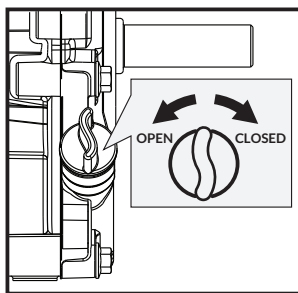
## Operation

### Add Oil To Engine



**No oil in the engine originally, but a bottle of engine oil is in scope of delivery. Don't start the engine before adding oil.**

1. Make sure the power trackbarrow is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Gasoline To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)



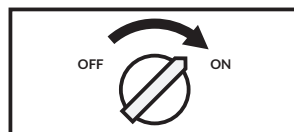
### **IMPORTANT: DO NOT OVERFILL!**

**This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.**

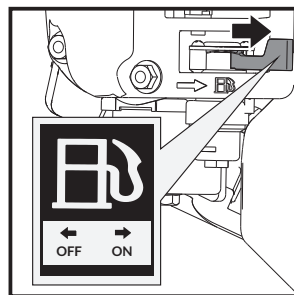
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

### Starting Engine

1. Move the engine switch to the ON position.

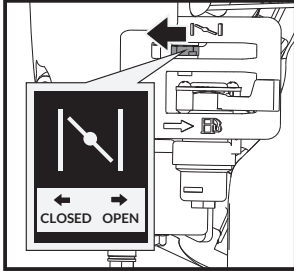


2. Open the fuel shut-off valve.

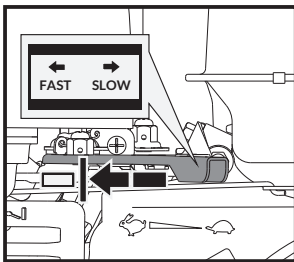


3. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

### Operating

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the power trackbarrow will start moving.

The power trackbarrow has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to

turn. When the machine is fully loaded, more pressure is required.

The power trackbarrow has a maximum capacity of 660 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.

Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the power trackbarrow unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

### STOP ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🛑) position.





***Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.***



***Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.***

## MAINTENANCE

Maintaining your mini tracked dumper will ensure long life to the machine and its components.

### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the power trackbarrow. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Check the spark plug wire regularly for signs of wear, and replace when needed.

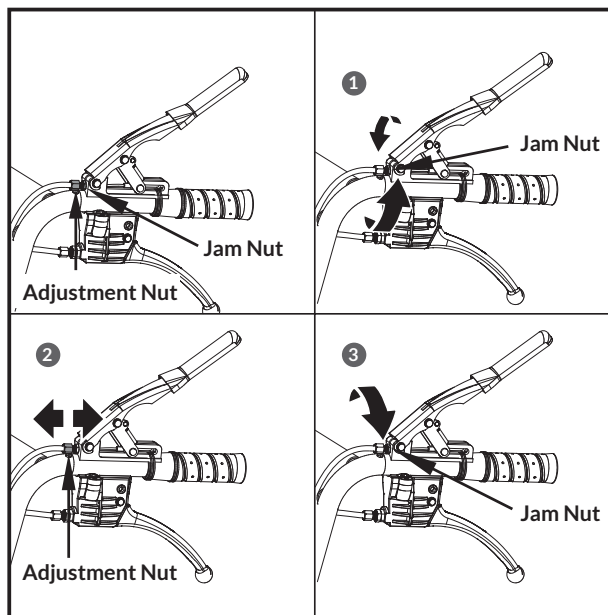


***Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.***

### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

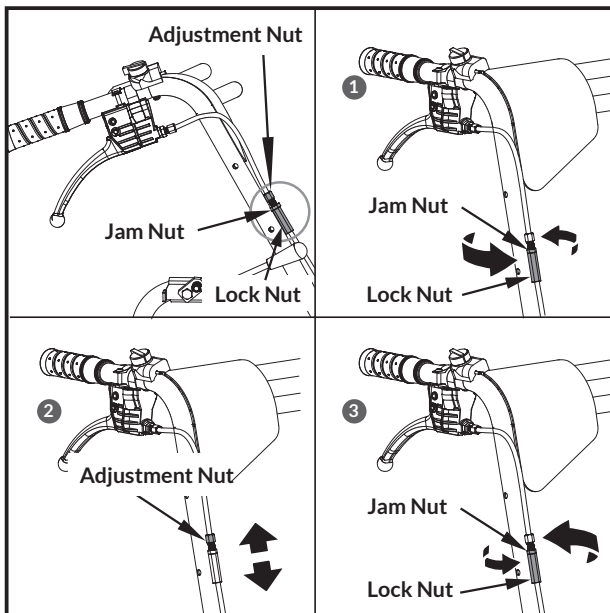
1. Loosen the jam nut by turning it counter clockwise with 10mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

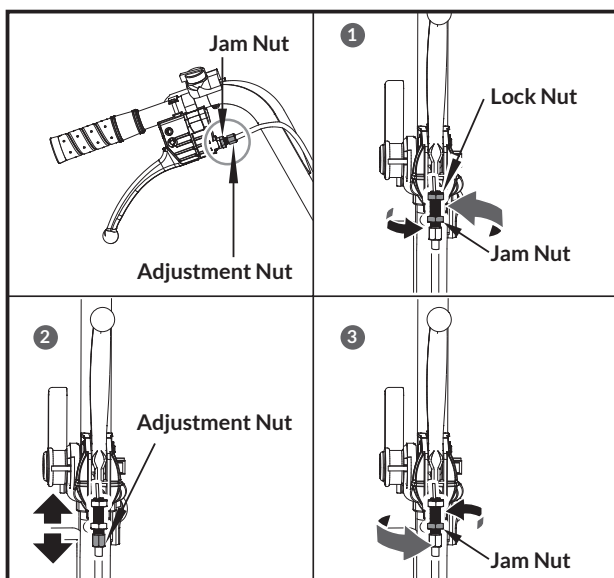
If steering becomes difficult to engage follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



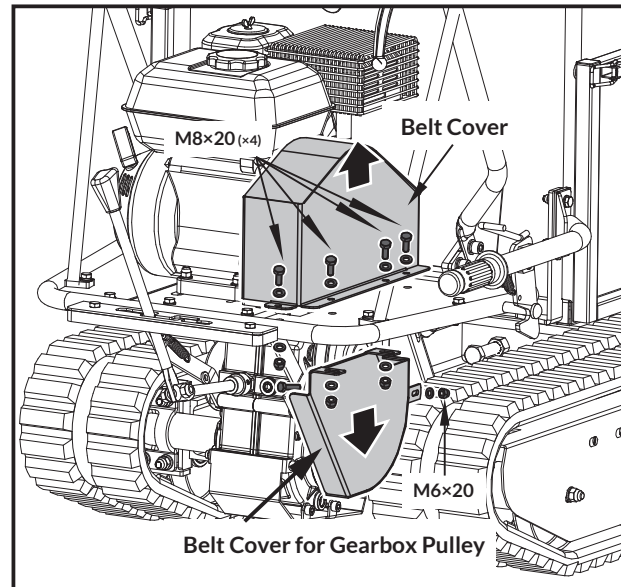
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.

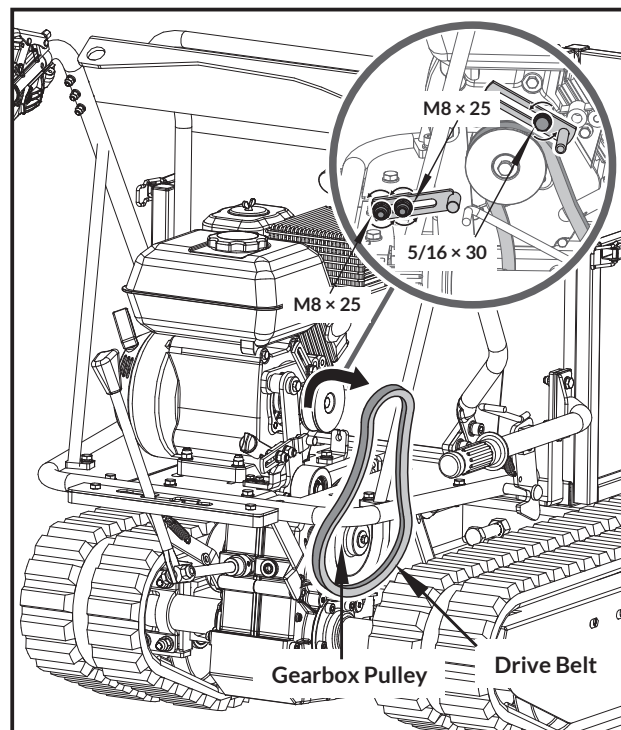


### Replacing Drive Belt

Remove the belt covers as show.



Loosen the two bolts M8X25 and one bolt 5/16X30 that fix the two belt blockers, no need to remove them. Pull out the belt.



*You may need to loosen the belt guide bracket and slide back before removing belt.*

### Lubrication

#### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.

### Gearbox Lubrication

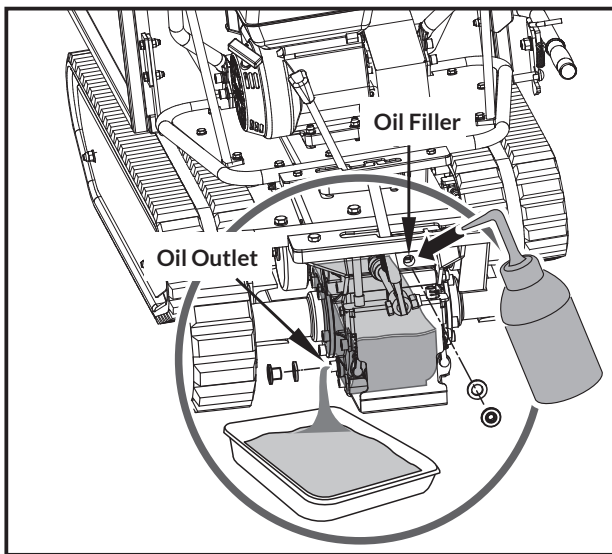
The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.



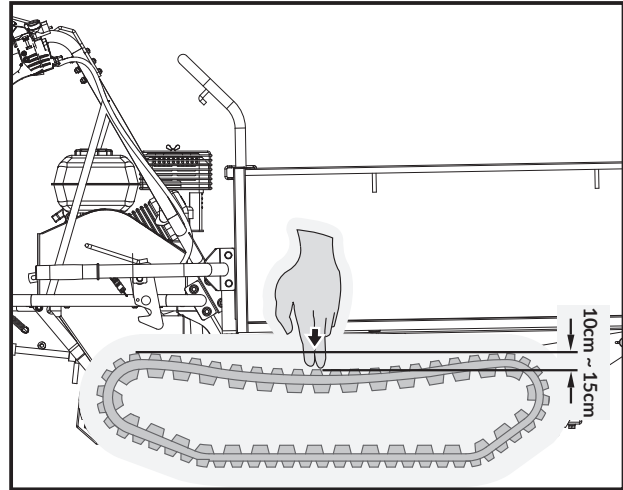
### Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

To check track tightness, proceed as follows.

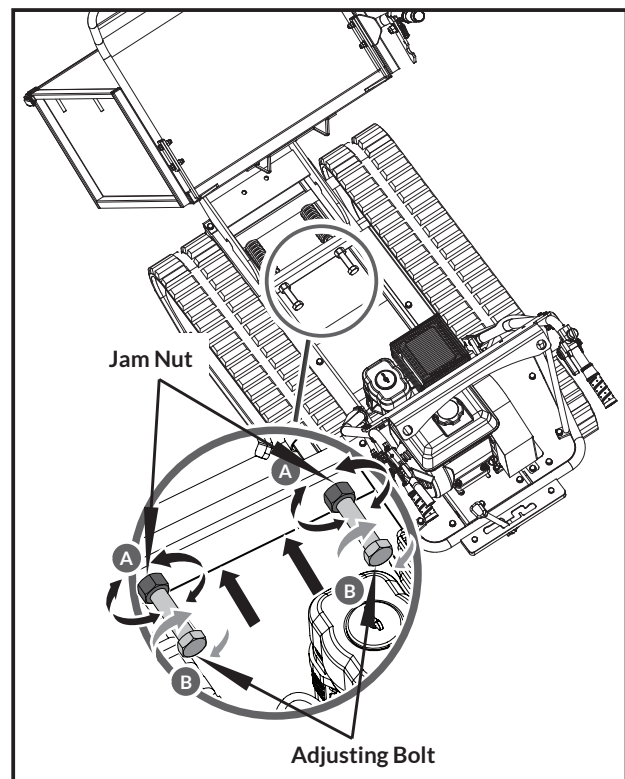
1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 4" off the ground.

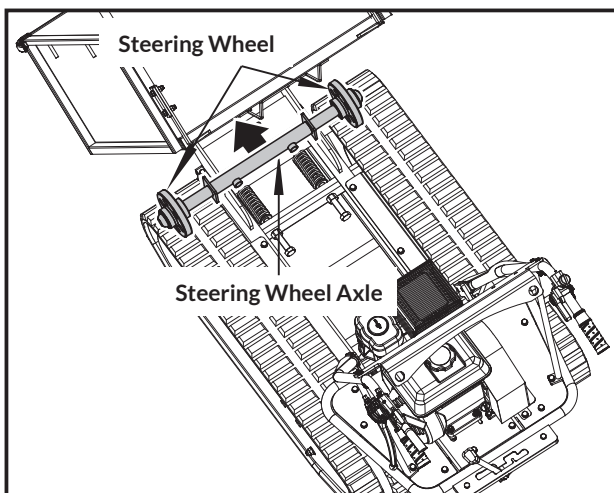
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10cm-15cm.



If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.





**Do not over-tighten your track.**  
The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

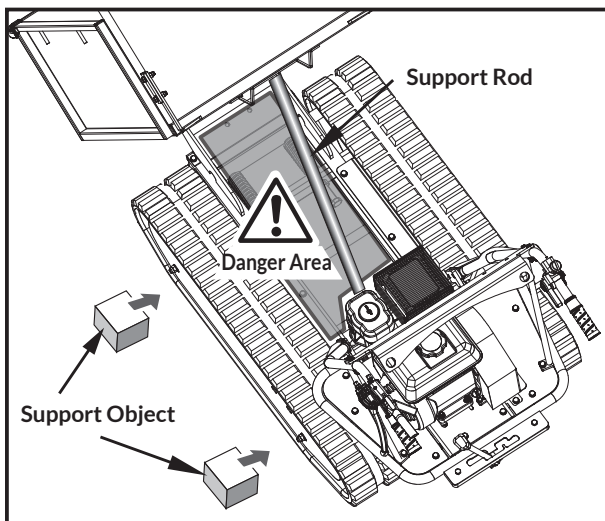


**If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.**

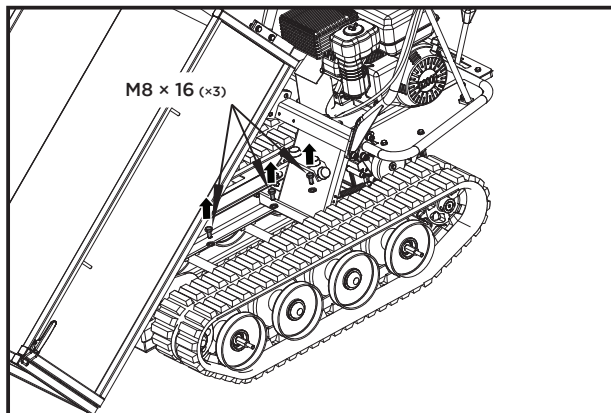
### Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

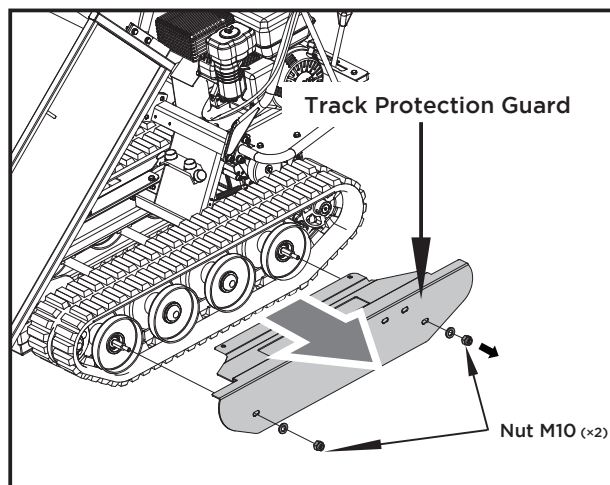
1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.



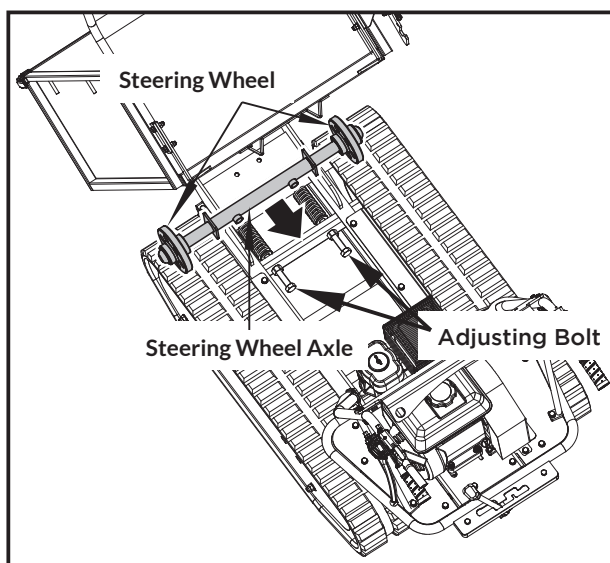
3. Remove the three M8×16 bolts and washers that fix the track protection guard.



4. Remove the two M10 nuts and washers from the side of track protection guard and take off the track protection guard.

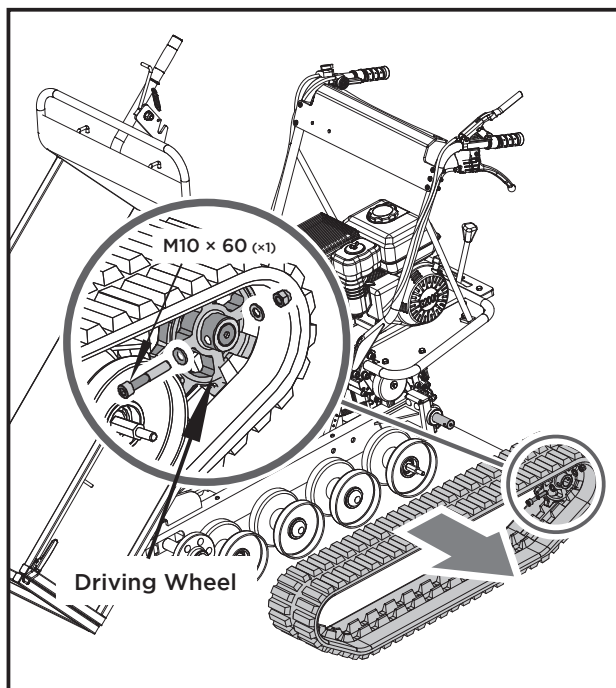


5. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.





6. Remove the M10×60 bolt, washers and nut from the driving wheel.
7. Pull out the whole track with driving wheel.



**When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.**

### ENGINE MAINTENANCE

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



**Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.**

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



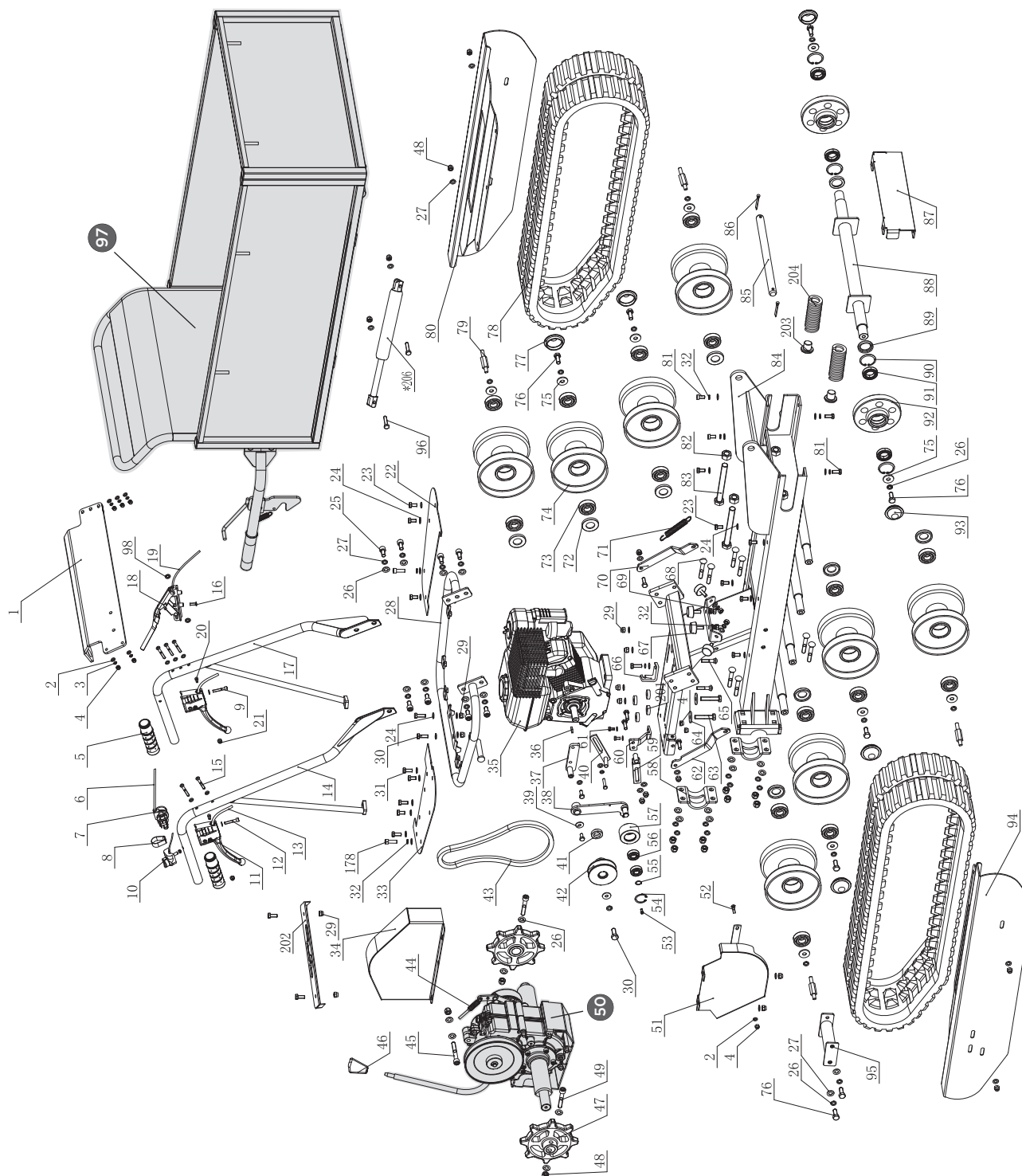
**Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.**

## TROUBLE SHOOTING

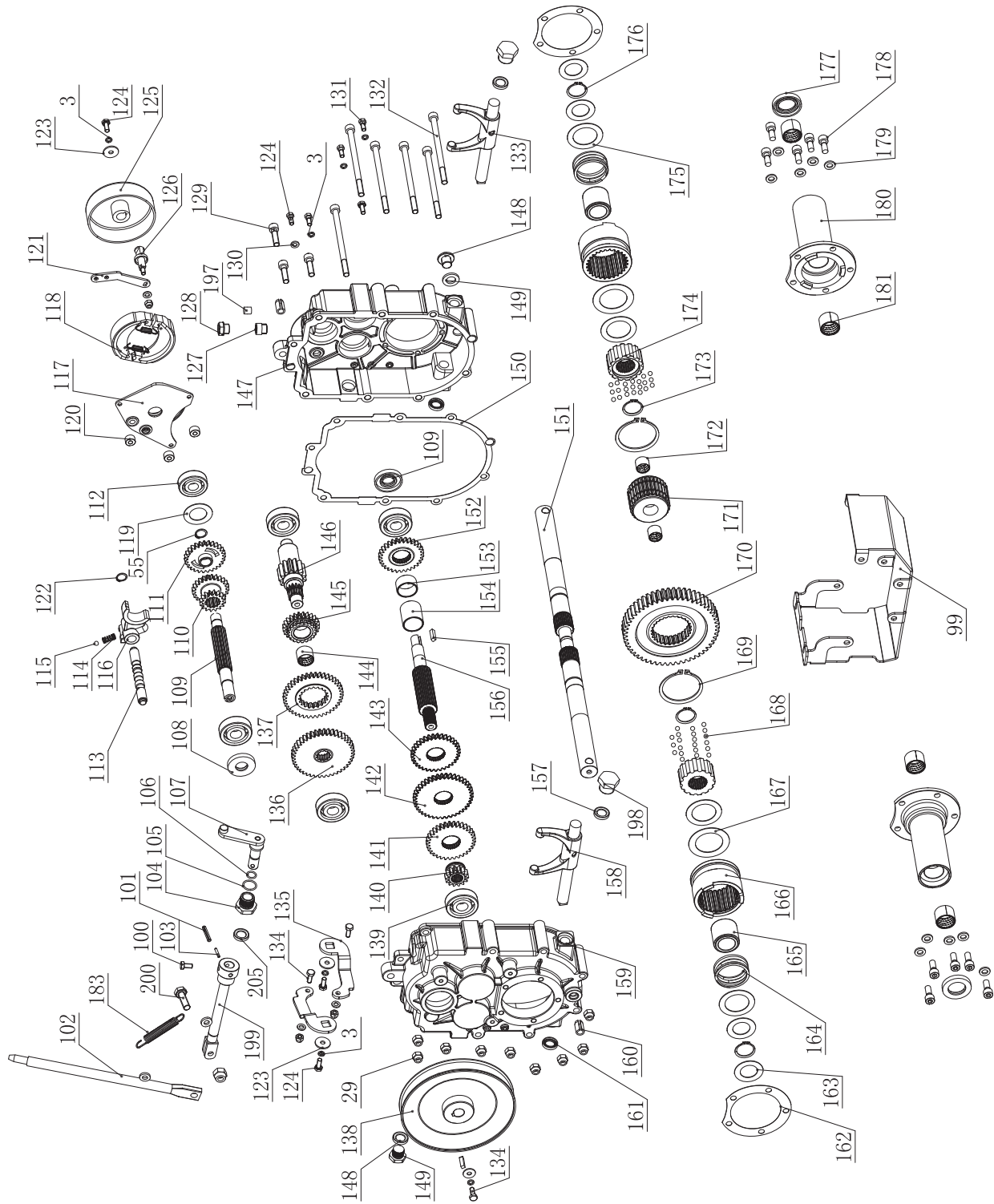
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Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"> <li>1. Spark plug wire disconnected.</li> <li>2. Out of fuel or stale fuel.</li> <li>3. Choke not in open position.</li> <li>4. Blocked fuel line.</li> <li>5. Fouled spark plug.</li> <li>6. Engine flooding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug.</li> <li>2. Fill with clean, fresh gasoline.</li> <li>3. Throttle must be positioned at choke for a cold start.</li> <li>4. Clean the fuel line.</li> <li>5. Clean, adjust gap, or replace.</li> <li>6. Wait a few minutes to restart, but do not prime.</li> </ol>
Engine runs erratically.	<ol style="list-style-type: none"> <li>1. Spark plug wire loose.</li> <li>2. Unit running on CHOKE.</li> <li>3. Blocked fuel line or stale fuel.</li> <li>4. Vent plugged.</li> <li>5. Water or dirt in fuel system.</li> <li>6. Dirty air cleaner.</li> <li>7. Improper carburetor adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire.</li> <li>2. Move choke lever to OFF.</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li> <li>4. Clear vent.</li> <li>5. Drain fuel tank. Refill with fresh fuel.</li> <li>6. Clean or replace air cleaner.</li> <li>7. Refer to Engine Manual.</li> </ol>
Engine overheats.	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Dirty air cleaner.</li> <li>3. Air flow restricted.</li> <li>4. Carburetor not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil.</li> <li>2. Clean air cleaner.</li> <li>3. Remove housing and clean.</li> <li>4. Refer to Engine Manual.</li> </ol>
One of the two tracks is blocked.	Foreign bodies have worked their way between the track and the frame.	Remove the foreign body.
Machine does not move while engine is running.	<ol style="list-style-type: none"> <li>1. Gear is not properly selected.</li> <li>2. Driving tracks not tight enough.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears.</li> <li>2. Tighten driving tracks.</li> </ol>

## PARTS SCHEDULE

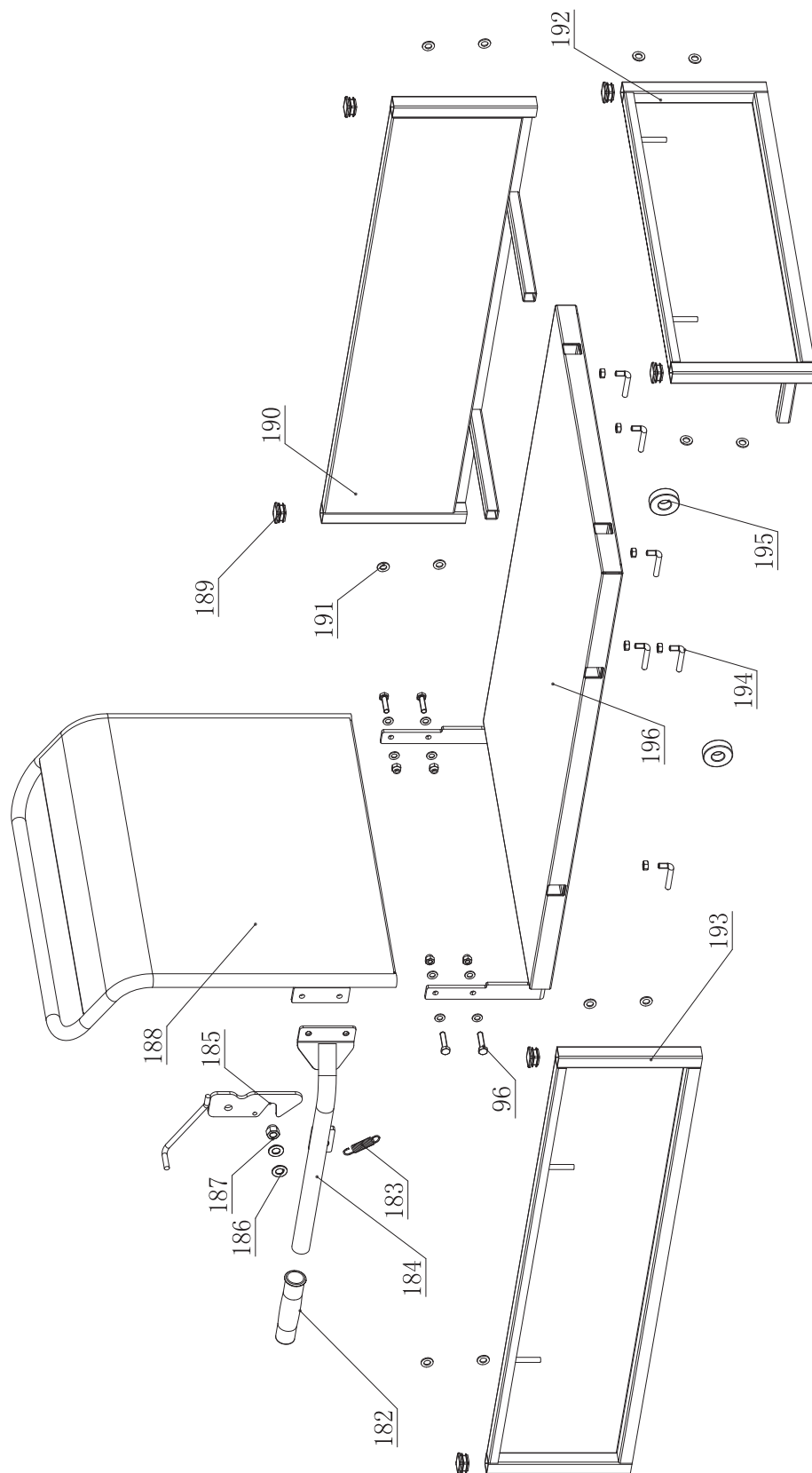


## Gearbox (50)





Box (97)



# PARTS LIST

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No.	Description	Q'ty
1	Plate	1
2	Washer ø6	20
3	Spring washer 6	12
4	Nut M6	9
5	Handle sleeve	2
6	Throttle Cable	1
7	Throttle Lever	1
8	Hoop	1
9	Screw M6x60	1
10	ON/OFF Switch	1
11	Right/Left Steering Lever	2
12	Screw M6X35	1
13	Right/Left Steering Lever Cable	2
14	Right Handle Frame Assembly	1
15	Bolt M6x45	5
16	Screw M6x16	1
17	Left Handle Frame Assembly	1
18	Clutch Control Lever	1
19	Clutch Control Lever Cable	1
20	Screw M5x20	2
21	Nut M5	2
22	Baseplate (L)	1
23	Bolt M8x16	12
24	Washer ø8	58
25	Screw M10x20	8
26	Washer ø10	28
27	Washer ø10	28
28	Handle Mounting Frame	1
29	Nut M8	25
30	Bolt M8x25	8
31	Bolt M8x20	5
32	Washer ø8	13
33	Baseplate (R)	1
34	Small Pulley Cover	1
35	Engine(6.5HP)	1
36	Key 5x35	1
37	Fixing bracket	1
38	Tensioner Pulley Bracket	1

No.	Description	Q'ty
39	Washer ø8	2
40	Belt Plate	1
41	Sleeve Washer	1
42	Small Pulley	1
43	Belt B33	1
44	Brake Cable	1
45	Screw M10x70	1
46	Hand Grip	1
47	Driving Wheel	2
48	Lock Nut M10	15
49	Screw M10x60	2
50	Gearbox Complete	1
51	Big Pulley Guard	1
52	Bolt M6x20	1
53	Screw M5x12	1
54	Circlip 35	1
55	Circlip 15	1
56	Bearing 6202-2RS	2
57	Tensioner Pulley	1
58	Wheel Shaft Press Plate	2
59	Belt Plate	1
60	Connecting Angle Block	1
61	Bolt M6X25	2
62	Support Plate( R )	1
63	Bolt M8X50	2
64	Washer	2
65	Bolt M8X45	2
66	Cable Fixing Bracket	1
67	Rubber Cushion	4
68	Bolt M10x65	8
69	Nut M8	4
70	Support Plate (L)	1
71	Long Extension Spring	1
72	Gasket 25x47x7	8
73	Bearing 6204-2RS	16
74	Supporting Wheel weldment	8
75	Washer Ø10	10
76	Bolt M10X25	12

MINI TRACKED DUMPER

25

No.	Description	Q'ty
77	Ø47 Axle Head Cover (Support Wheel)	4
78	Track 180x60 38	2
79	Two-head Stud	4
80	Guard Plate (L)	1
81	Bolt M8x20	4
82	Nut M16	2
83	Bolt M16x140	2
84	Chassis Weldment	1
85	Optical Axis	1
86	Cotter Pin Ø4X35	2
87	Rear Cover	1
88	Guide Wheel Axle	1
89	Gasket 30X42X7	2
90	Circlip 42	4
91	Bearing 61905-2RS	4
92	Guide Wheel	2
93	Ø47 Axle Head Cover (Guide Wheel)	2
94	Guard Plate (R)	1
95	Supporting Bracket Weldment	1
96	Bolt M8x35	4
97	Dumper Box	1
98	Rubber Gasket	2
99	Guard Cover	1
100	Bolt M8x12	1
101	Cylindrical Pin 5X30	1
102	Gearshift Lever II	1
103	Cylindrical Pin 3X30	1
104	Locating Nut	1
105	Combined Sealing Washer 20	1
106	O-ring 11.2X1.8	1
107	Lever Mount Bracket	1
108	Seal FB17X40X7	2
109	Spline Shaft I	1
110	Duplex Slip Gear	1
111	Gear	1
112	Bearing 6302	1
113	Gearshift Fork Guide Pin	1
114	Small spring	1

No.	Description	Q'ty
115	Steel Ball 6	1
116	Gearshift Fork	1
117	Rivet Assembly	1
118	Brake Assy.	1
119	Wearing Pad	1
120	Joint Bolt	3
121	Brake Pull Plate	1
122	Circlip 12	1
123	Washer 6	5
124	Bolt M6x16	4
125	Expansion Brake Cover	1
126	Stud	1
127	Vent-Plug Bushing	1
128	Vent-Plug	1
129	Screw M8X30	3
130	Combined Sealing Washer 6	1
131	Screw M6X30	3
132	Screw M8X130	6
133	Clutch Fork Shaft (L)	1
134	Bolt M6X20	3
135	Swing Plate	2
136	Gear III-4	1
137	Gear III-3	1
138	Large Belt Pulley	1
139	Bearing 6303	5
140	Gear II-5	1
141	Gear II-4	1
142	Gear II-3	1
143	Gear II-2	1
144	Gear III-2 Bush	1
145	Gear III-2	1
146	Gear Shaft III	1
147	Gear Box Case ( L )	1
148	Plug M14x1.5	2
149	Combined Sealing Washer 14	2
150	Paper Gasket for Housing	1
151	Output Shaft	2
152	Gear II-1	1

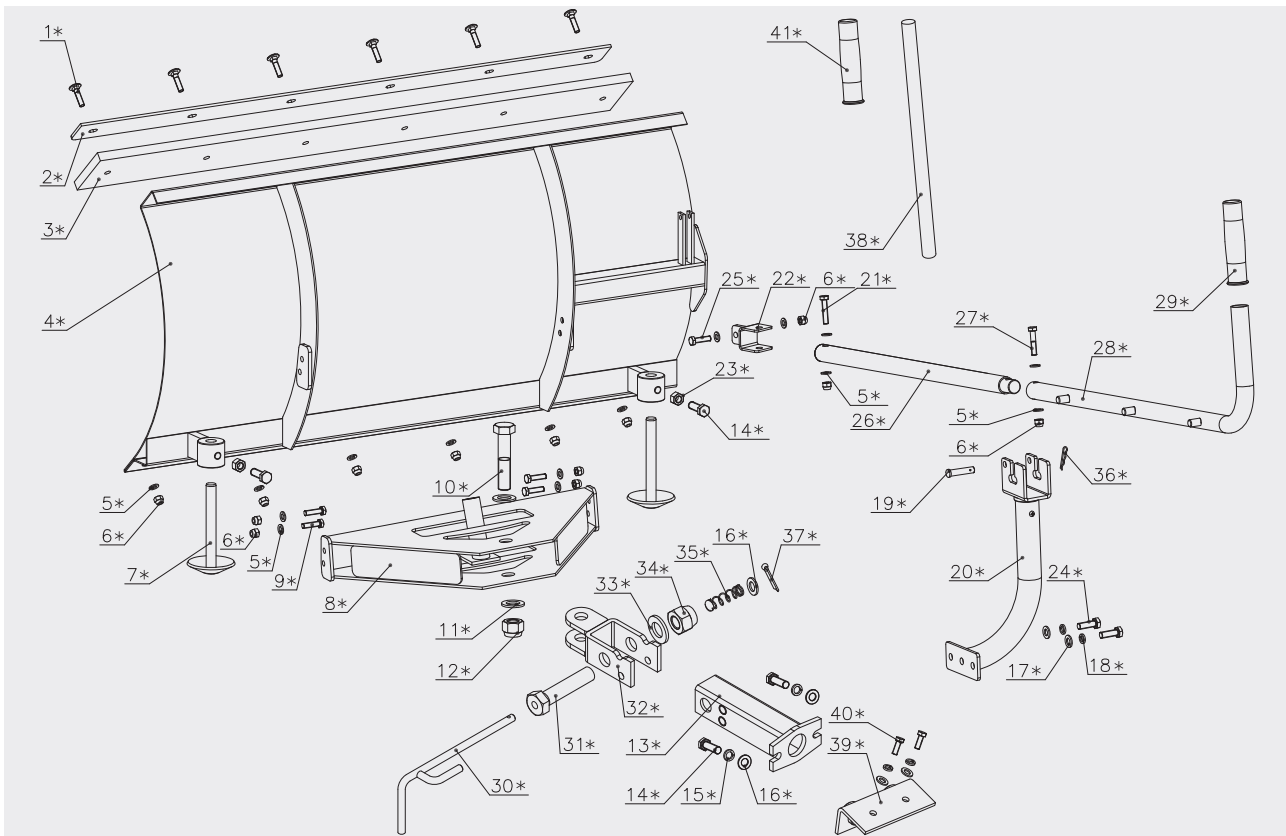
No.	Description	Q'ty
153	Bush 2	1
154	Bush 1	1
155	Key A5x20	2
156	Spline Shaft II	1
157	Combined Sealing Washer 18	2
158	Clutch Fork (R)	1
159	Gearbox Housing ( R)	1
160	Pin 12x20	2
161	Seal FB16x22x4	2
162	Paper Gasket for Bush	2
163	Gasket 1	4
164	Clutch Spring	2
165	Spring Guide Bush	2
166	Clutch Sleeve	2
167	Spring Gasket	2
168	Steel Ball 5	70
169	Circlip 58	2
170	Output Gear	1
171	Intermediate Joint Bush	1
172	Intermediate Joint Bush Composite Bushing	2
173	Circlip 26	2
174	Joint Bush	2
175	Spring Gasket	4
176	Circlip 25	2
177	Seal FB25x42x7	2
178	Screw M8x25	12
179	Washer 8	10

No.	Description	Q'ty
180	Outpush Shaft Bush	2
181	Output Shaft Composite Bushing	4
182	Hand Grip	1
183	Spring	2
184	Lever	1
185	Operating Lever	1
186	Flat Washer 12	2
187	Locknut M12	1
188	Panel (Front)	1
189	Plug	6
190	Extendable Side (Left)	1
191	Shock Absorber pad	12
192	Panel (Rear) Yellow	1
193	Extendable Side (Right)	1
194	Lock Bolt	6
195	Elastic Cushion	2
196	Panel (Bottom)	1
197	Spongy Cushion	1
198	Plug Screw M18x1.5	2
199	Gearshift Lever I	1
200	Bolt M10x35	1
201	Rubber Pad	4
202	Gearshift Panel	1
203	Locating Bush	2
204	Guiding Spring	2
205	Seal FB14x24x7	1
*206	Gas Spring (Optional)	1

**GB**



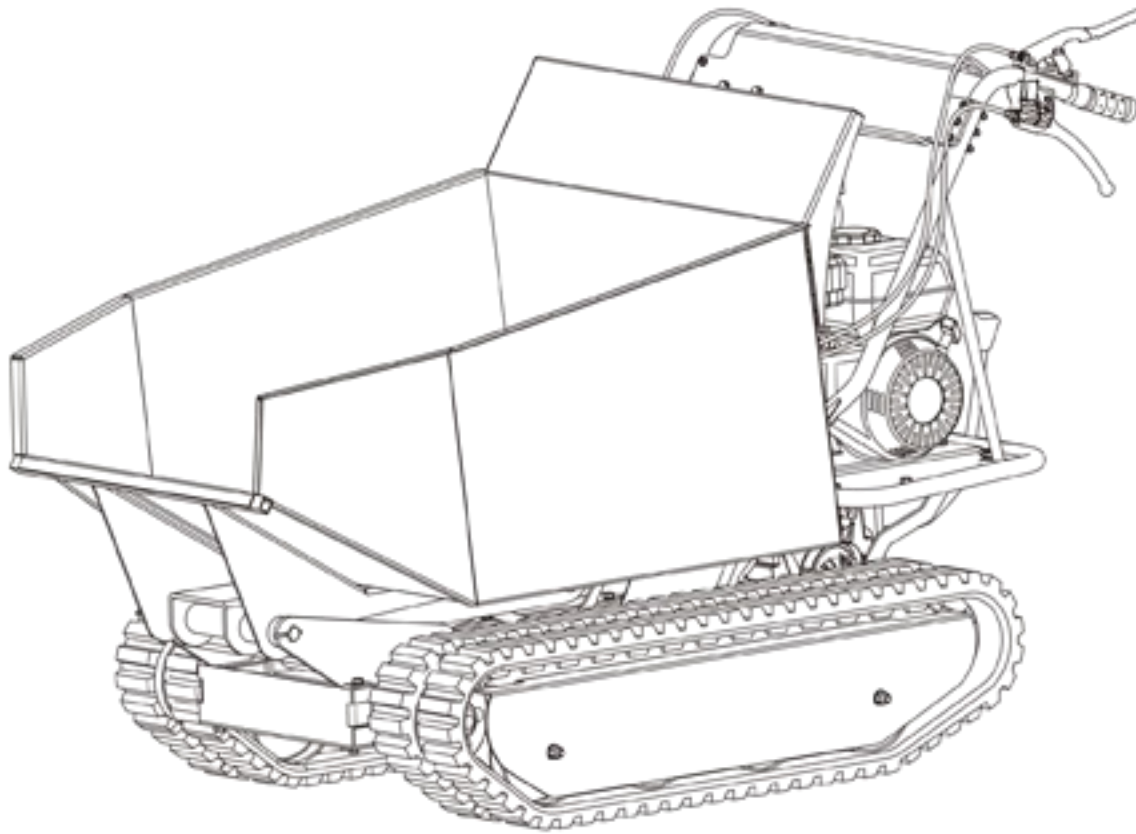
## Plow Blade (Optional)



## Parts List

No.	Description	Q'ty
1	Bolt M8×35	6
2	Shave Plate	1
3	Rubber Plate	1
4	Blade Weldment	1
5	Washer8	16
6	Nut M8	13
7	Landing Leg Weldment	2
8	Blade Fixed Bracket Weldment	1
9	Bolt M8×30	4
10	Bolt M20×95	1
11	Washer 20	2
12	Nut M20	1
13	Blade Connecting Bracket Weldment	1
14	Bolt M12×40	4
15	Washer 12	2
16	Washer 12	3
17	Washer 10	4
18	Washer 10	4
19	Pin 10×60	1
20	Curved Support Bracket Weldment	1

No.	Description	Q'ty
21	Bolt M8×50	1
22	Active Connecting Weldment	1
23	Nut M12	2
24	Bolt M10×25	2
25	Bolt M8×35	1
26	Adjusting Rod Weldment B	1
27	Bolt M8×40	1
28	Adjusting Rod Weldment A	1
29	Handle Sleeve 28	2
30	Limiter Rod Wedment	1
31	Bolt M24×110	1
32	Limiter Weldment	1
33	Washer24	1
34	Lock Nut M24	1
35	Spring	1
36	Bridge Pin 2×11×35	1
37	Pin 4×40	1
38	Handle Grip 2	1
39	Bended Plate	1
40	Bolt M10×30	2
41	Handle Sleeve 25	1



# Mini Tracked Dumper

## Operator's Manual

**MODEL NUMBER :** QTP500C

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**

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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



*Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.*

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

### Specifications

Item No.	QTP500C	
Engine	196cc, 6.5HP	
Transmission	3 Forward / 1 Reverse	
Load Capacity	500 kg	
Box Length	950 mm	
Box Width	680 mm	
Box Depth	465 mm	
Track Width	180 mm	
Pump Flow	10.8 L/min	
Sound power level	101 dB(A) $k=2$ dB(A)	
Sound pressure level	81.5 dB(A) $k=2$ dB(A)	
Vibrating level on handlebar grips	Left	10.1 $m/s^2$ $k=1.5$ $m/s^2$
	Right	11.3 $m/s^2$ $k=1.5$ $m/s^2$
Weight	264.0 kg	

## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Do not touch parts that are hot from operation. Serious burns may result.



Keep your hands clear from all rotating parts.



Never start or run the engine inside a closed area.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Be aware, objects may be thrown while in use.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Always turn off the engine before starting maintenance.



Keep children and bystanders off and away.

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## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service

on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

#### **Engine Safety**

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

#### **Fuel Safety**

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 12 mm below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

## Specific Safety Rules

Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

**Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.**

Never operate the machine on slopes where angle is over 20°.

When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

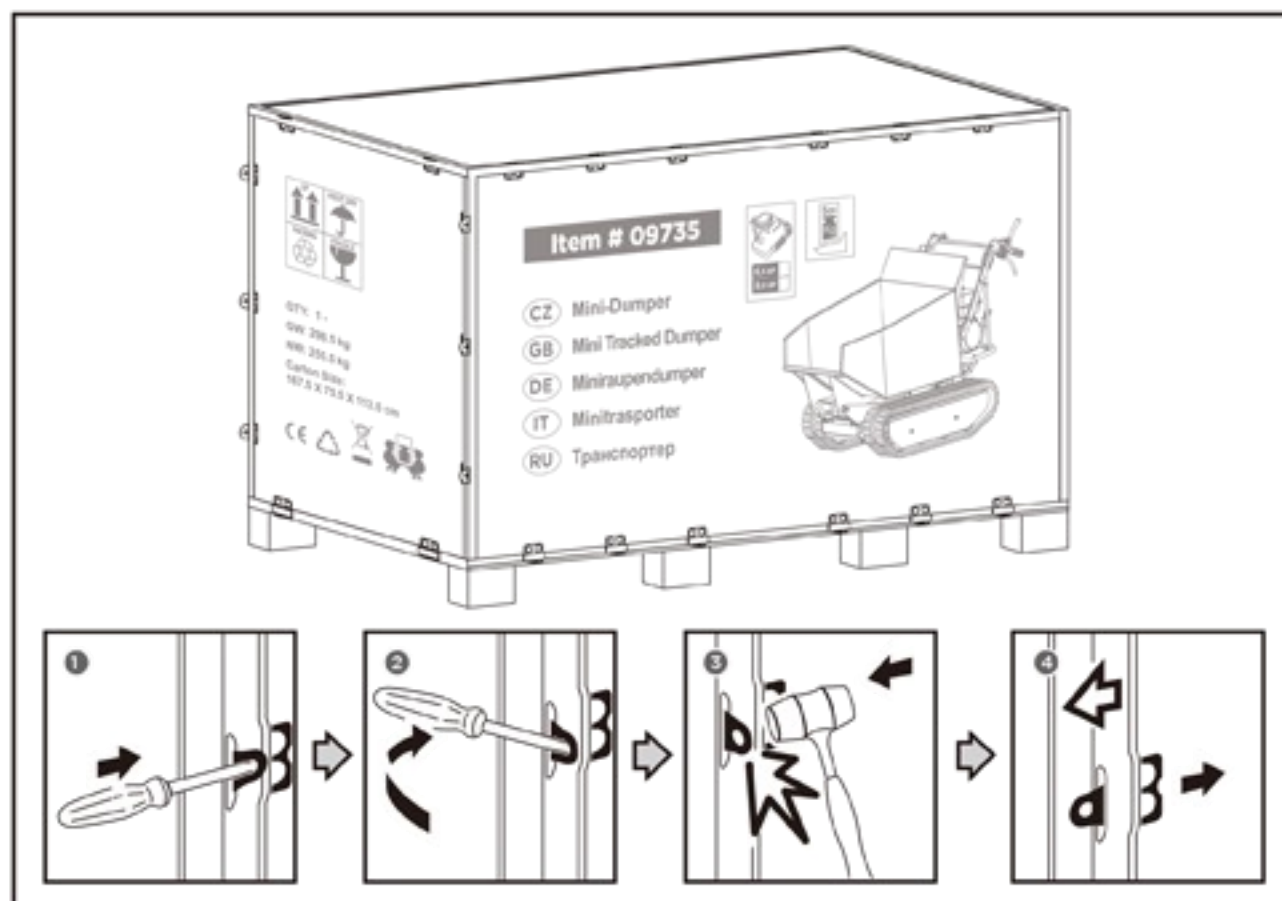
When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.



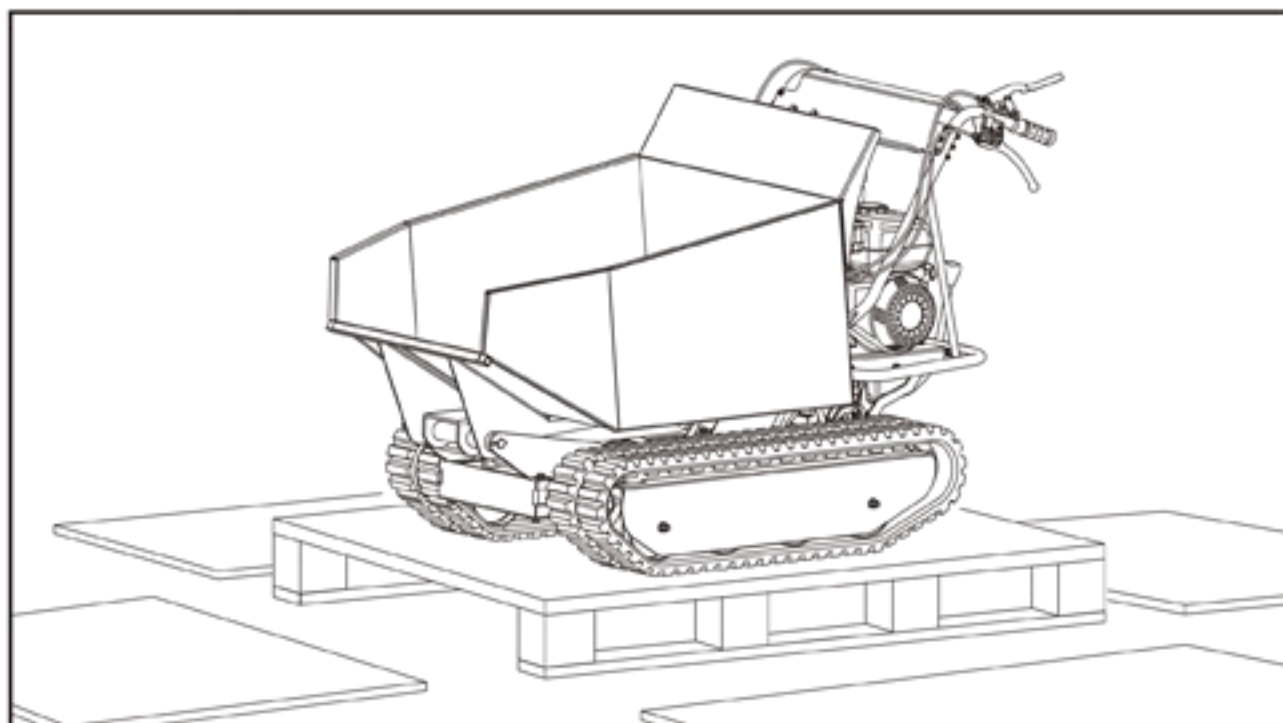
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.



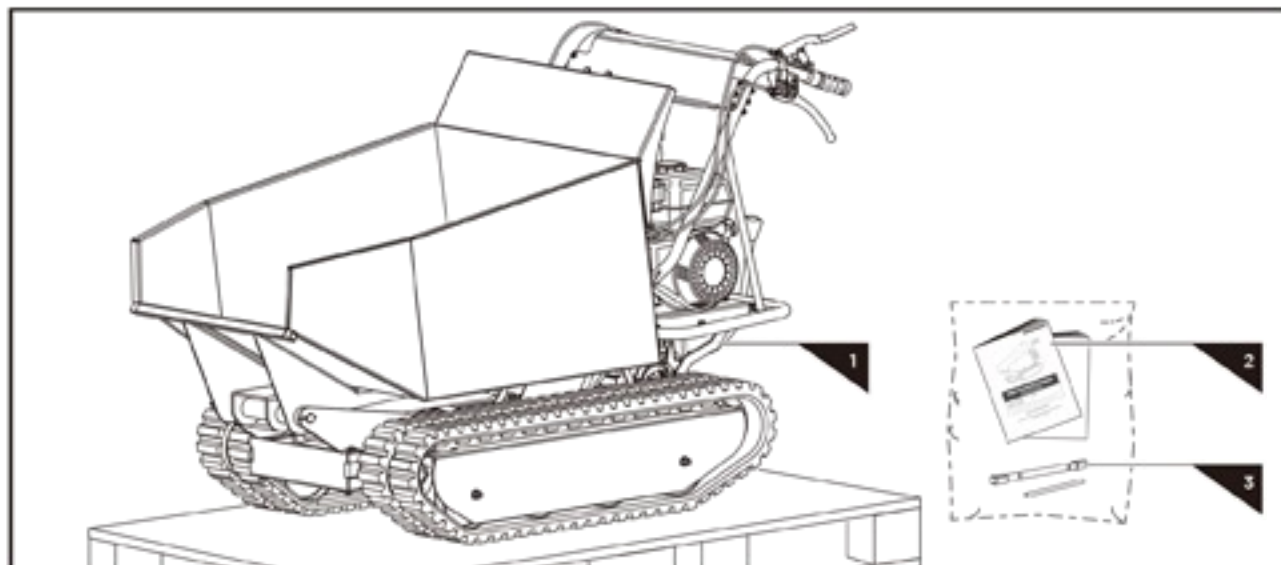
MINI TRACKED DUMPER

7



## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Machine

2. Operator's Manual & Engine Manual

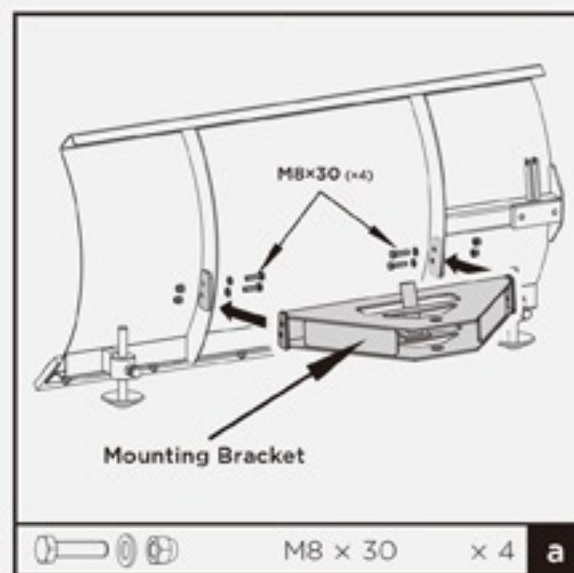
3. Tools for Spark Plug Assembly

## ASSEMBLY OF OPTIONAL ACCESSORIES

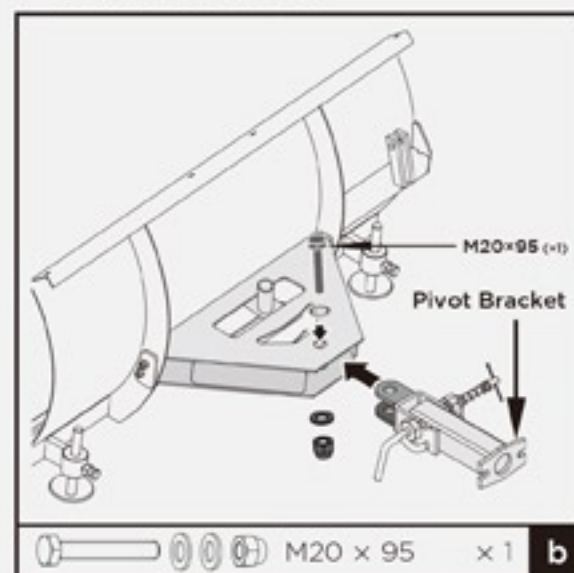
This mini tracked dumper was completely assembled at the factory. To assemble the optional plow blade follow the below instructions.

### Plow Blade (Optional)

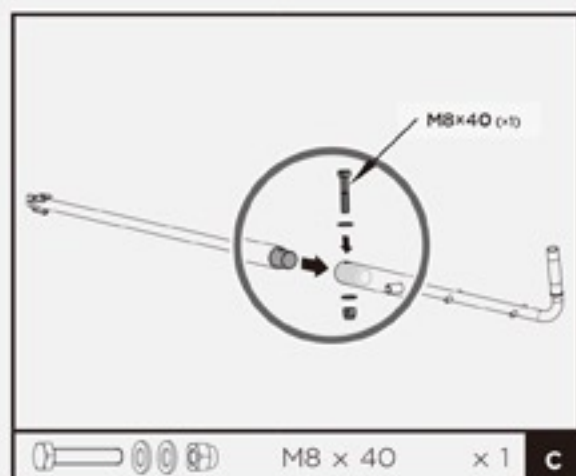
1. Mount the mounting bracket to the blade using M8x30 hex bolts, washers and nuts.



2. Position the pivot bracket inside the mounting bracket and align with mounting bracket holes. Secure with M20x95 hex bolt, washers and nut.



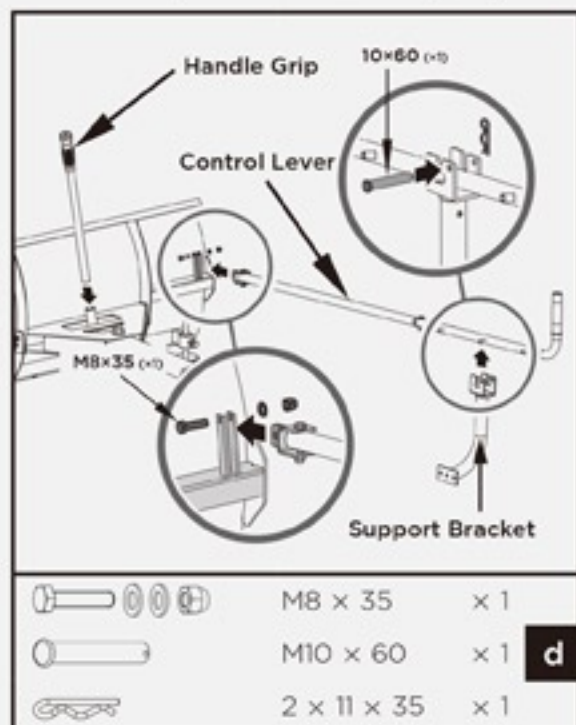
3. Insert the shorter control lever into the longer lever. Align holes and fasten with M8x40 hex bolt, washers and nut.



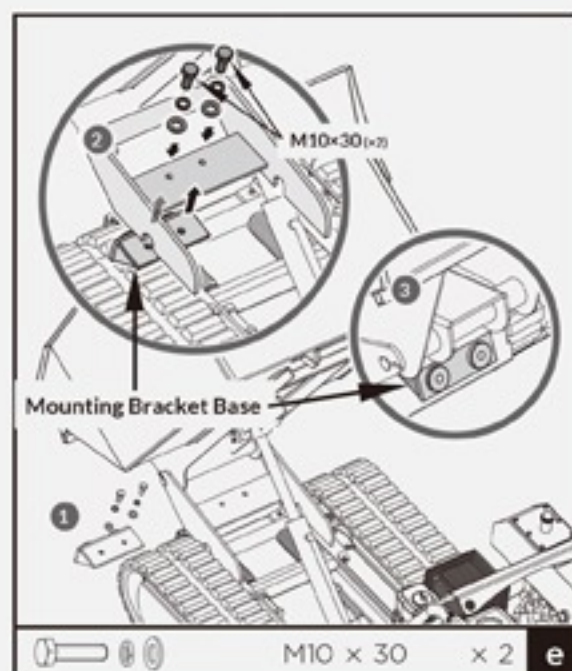
4. Attach control lever to the guide tube. Line up holes and fasten with M8x35 bolt, washers and nut.

5. Insert the handle grip into the holder.

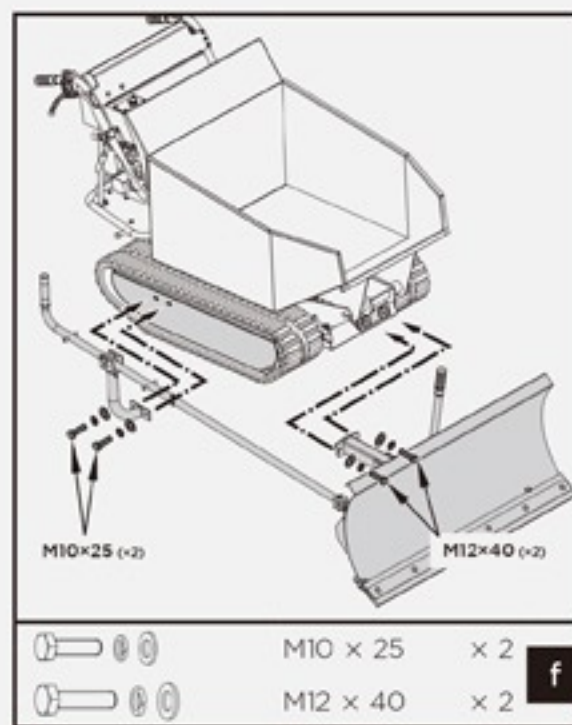
6. Secure the support bracket into the control lever with pin 10x60 and bridge clip.



7. Install the mounting bracket base with two M10x30 bolts and washers.

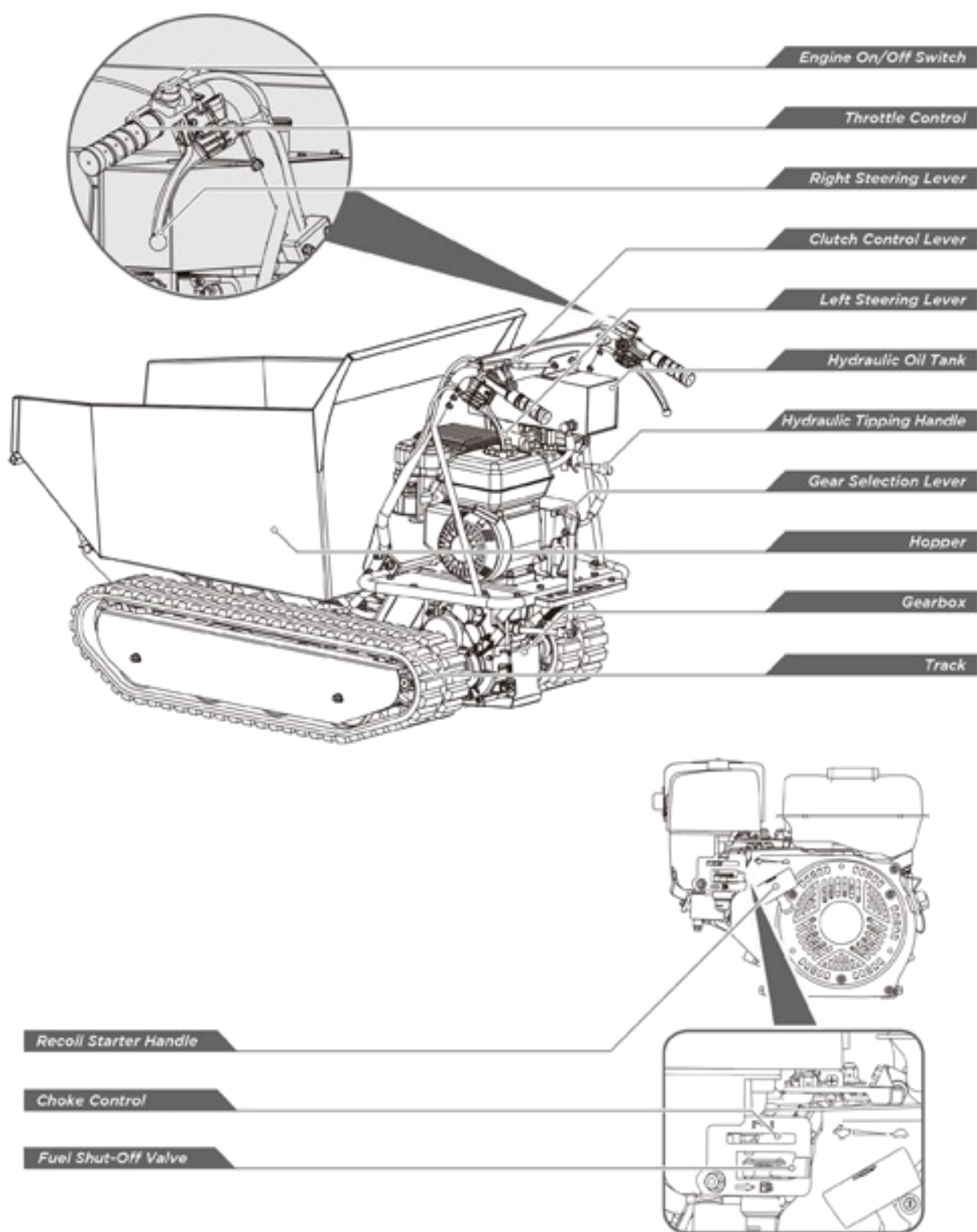


8. Install the already assembled plow blade to the trackbarrow as shown.



# KNOW YOUR MACHINE

## Features and Controls





### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the mini tracked dumper.**

Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the mini tracked dumper.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

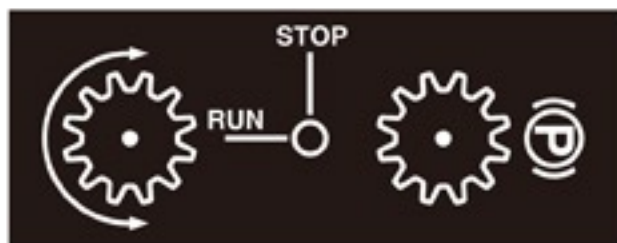
If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**

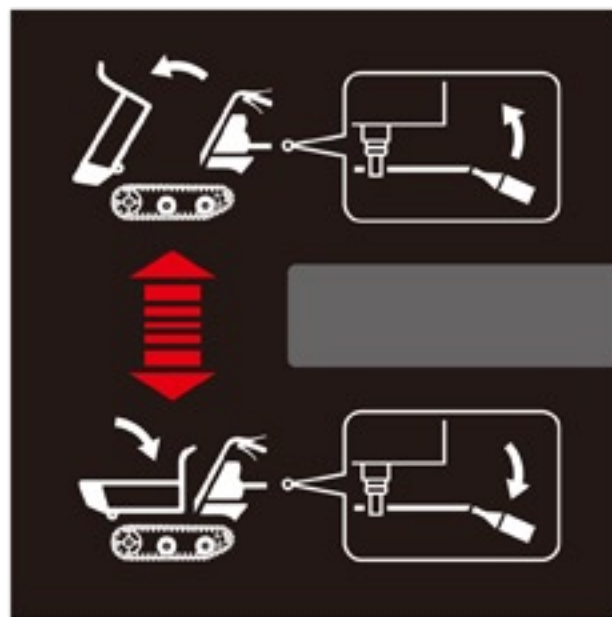
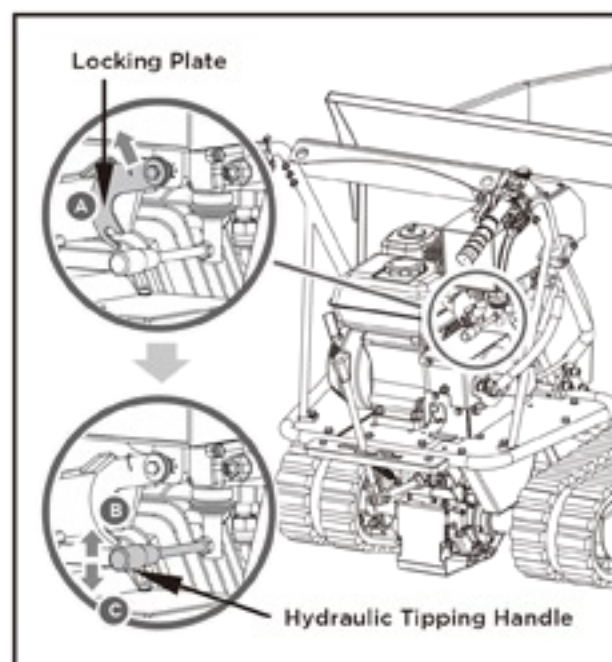


### Hydraulic Tipping Handle

Using your left hand, pull the locking plate up to release the tipping handle, and hold in position.

To raise the hopper, pull the tipping handle upwards until the hopper has reached the desired position. To stop raising the hopper, simply release the tipping handle and return the locking plate to its original position.

To lower the hopper, first pull the locking plate up with your left hand to release the tipping handle, and then pull the tipping handle down with the right hand. When the hopper is lowered to the original position, release the tipping handle back to its original position and lock securely with the locking plate.



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## Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

## Recoil Starter Handle

The Recoil Starter Handle is used to start the engine.



## Fuel Shut-Off Valve

The fuel shut - off has two position.

CLOSED (B) - use this position to service, transport, or store the unit.



OPEN (B) - use this position to run the unit.

## Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST , SLOW , and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

## Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED  and CHOKE OPEN  positions.



**Never use choke to stop engine.**

## Clutch Control Lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

## Operation

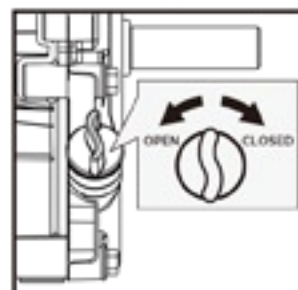
### Add Oil To Engine



**No oil in the engine originally, but a bottle of engine oil is in scope of delivery. Don't start the engine before adding oil.**

1. Make sure the mini tracked dumper is on a flat, level surface.

2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the **FULL** mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Oil To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

**IMPORTANT: DO NOT OVERFILL!**

*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

**Starting Engine**

1. Move the engine switch to the ON position.



2. Open the fuel shut-off valve.



3. Move the choke lever to the CLOSED position.  
If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

**Operating**

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the mini tracked dumper will start moving.

The mini tracked dumper has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to turn. When the machine is fully loaded, more pressure is required.

The mini tracked dumper has a maximum capacity of 1100 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.



Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the mini tracked dumper unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

#### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

#### Stop Engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (☞) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (⏏) position.



**Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.**



**Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.**

## MAINTENANCE

Maintaining your mini tracked dumper will ensure long life to the machine and its components.

#### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the mini tracked dumper. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Replace the spark plug wire.



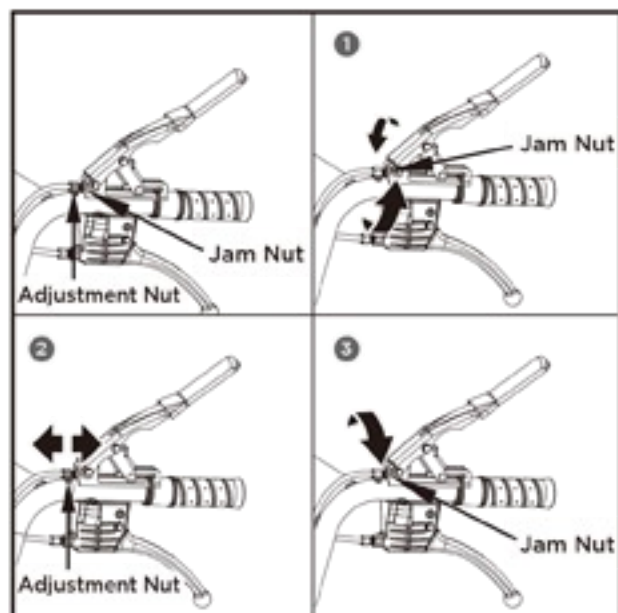
**Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.**

#### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.

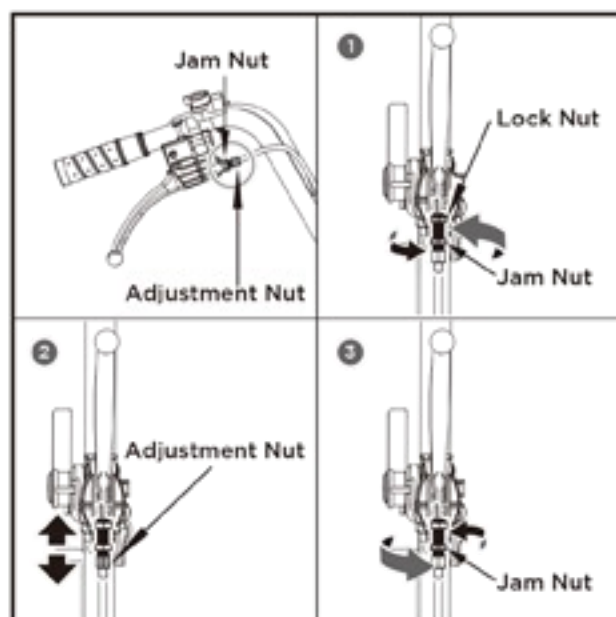
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

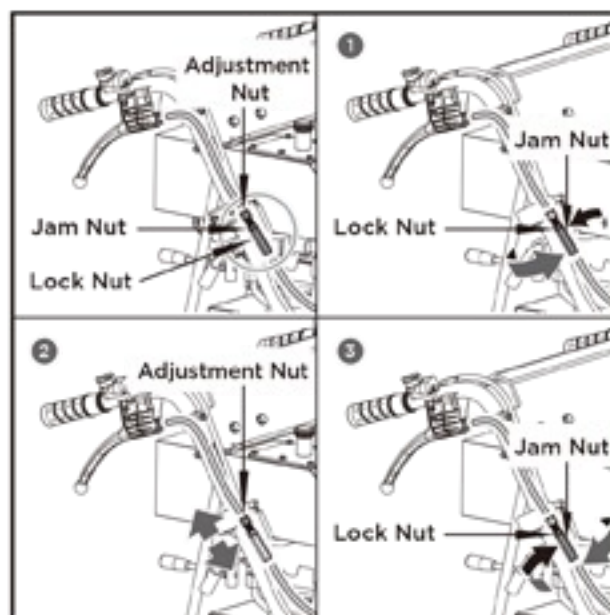
If steering becomes difficult to engage follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



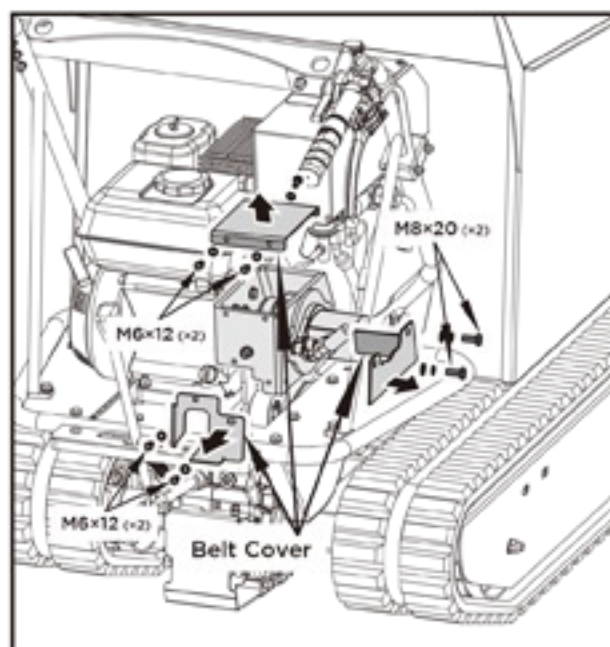
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



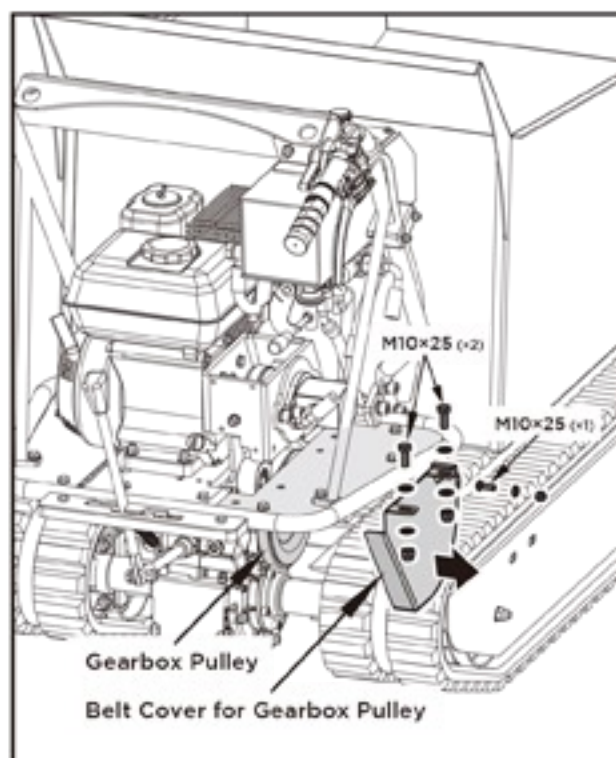
### Replacing Drive Belt

Remove three belt covers as shown.



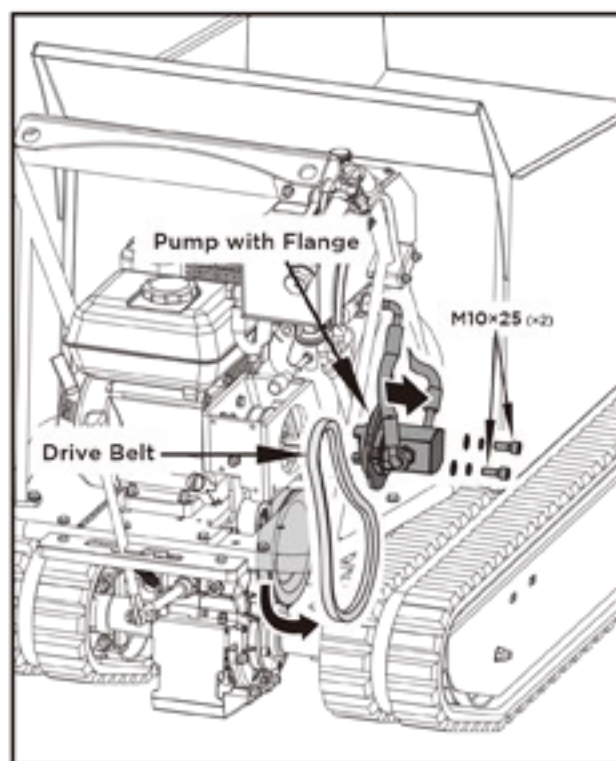


Remove the belt cover for gearbox pulley.



Disassemble the two M10x25 bolts, spring washers and flat washers, remove the pump with flange.

Turn the gearbox pulley and pull out the belt.



## Lubrication

### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.

### Gearbox Lubrication

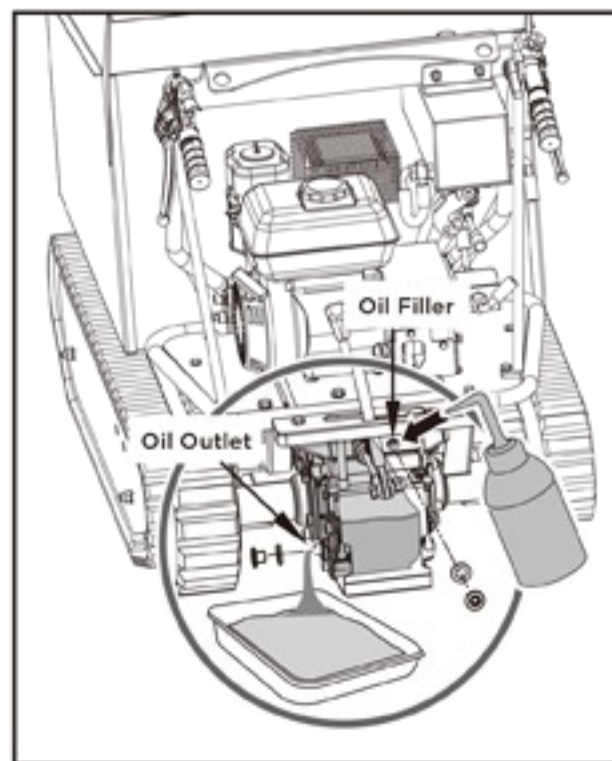
The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

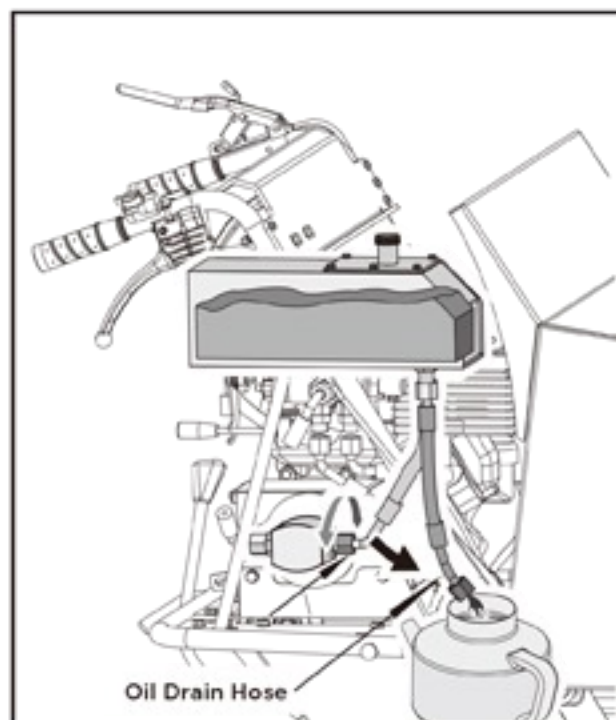
Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.

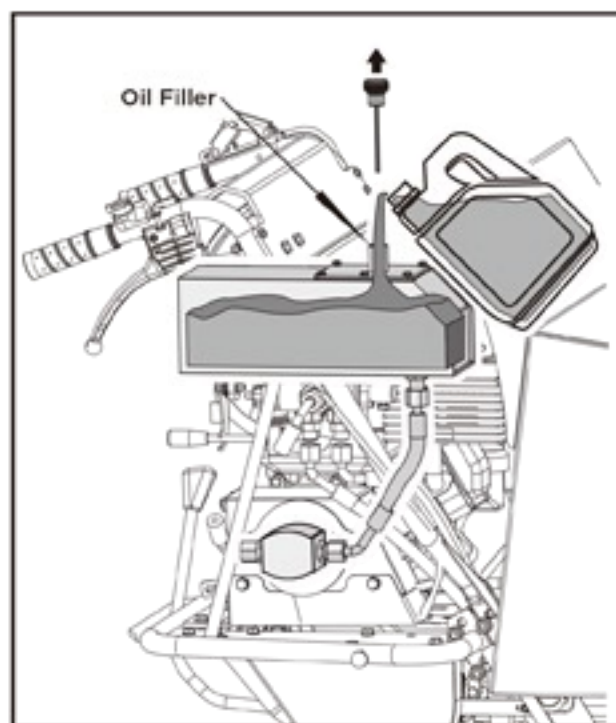


### Hydraulic Oil

Unscrew the locking nut to drain the oil into the pan.



Remove the oil dipstick and add the oil. The recommended hydraulic oil is 10W AW32, ASLE H-150, or ISO 32. Tank Capacity is 3L.

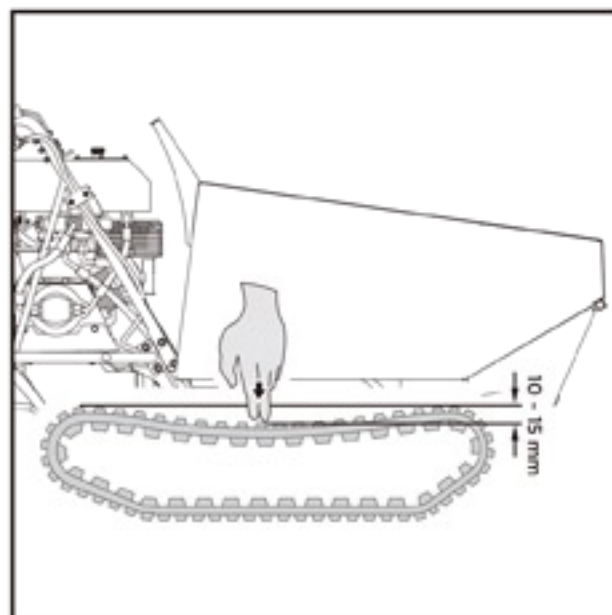


### Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

To check track tightness, proceed as follows.

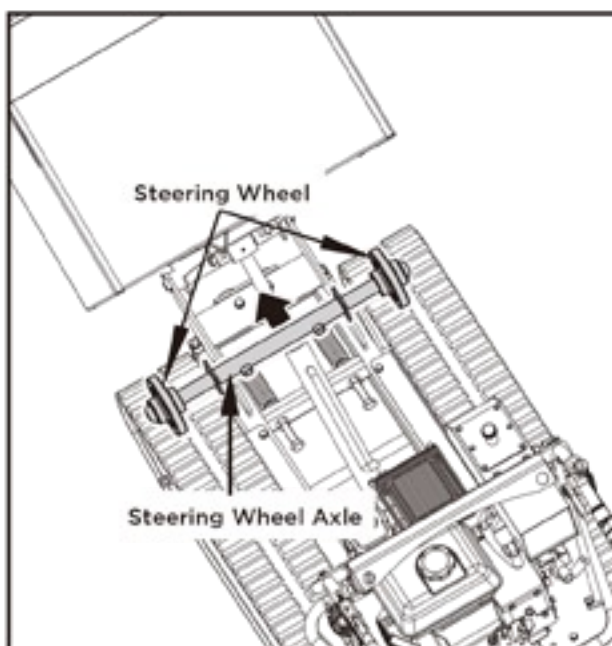
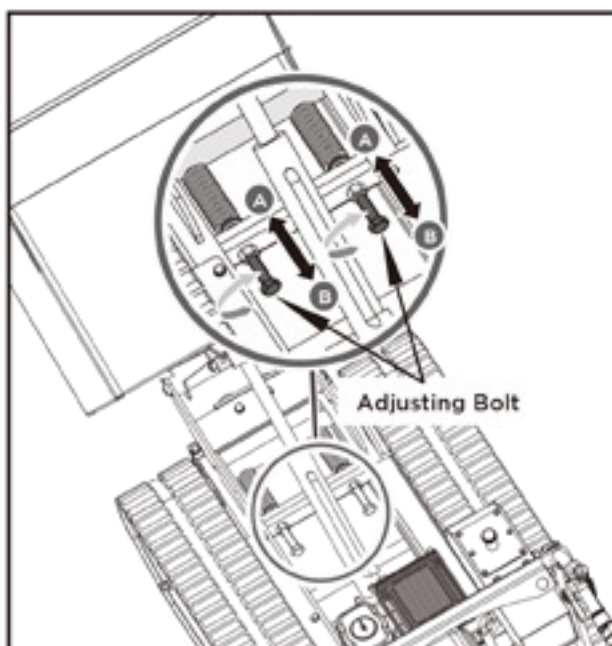
1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10 - 15 mm.



If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.





**Caution:** Do not over-tighten your track. The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

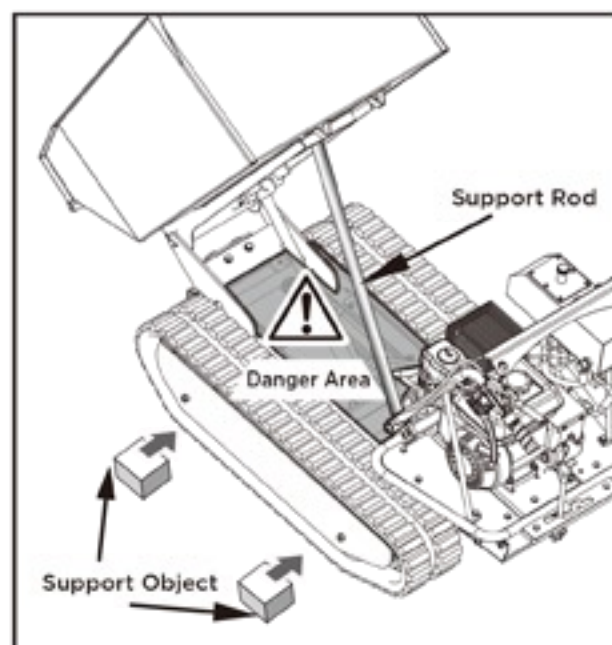


**If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.**

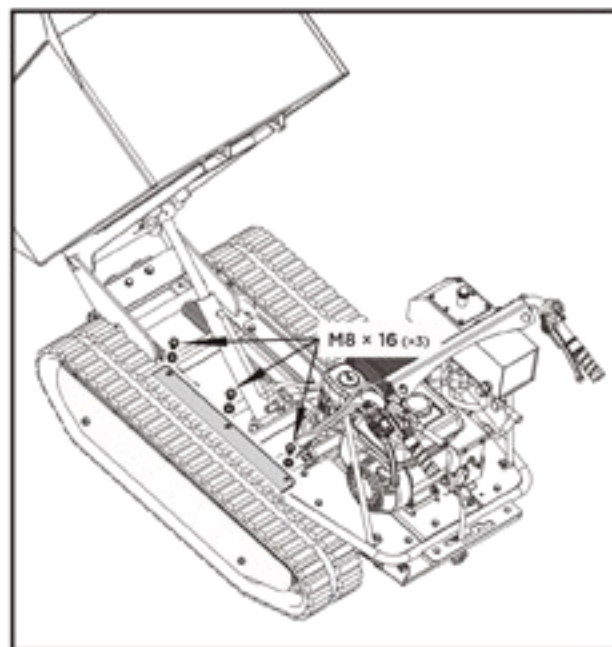
## Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

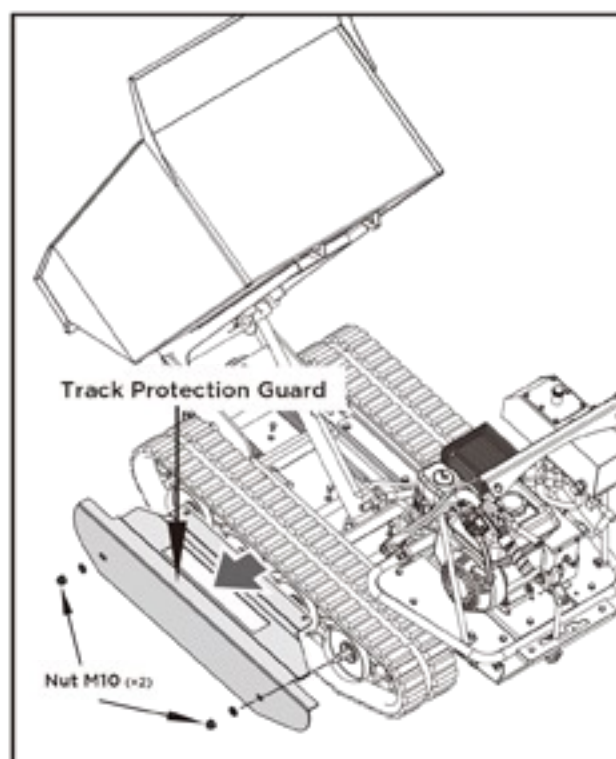
1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.



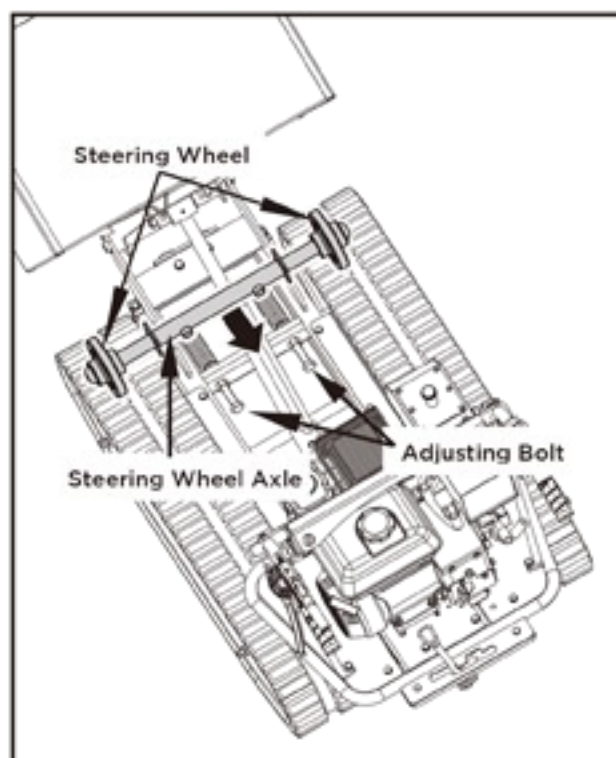
3. Remove the three M8x16 bolts and washers that fix the track protection guard.



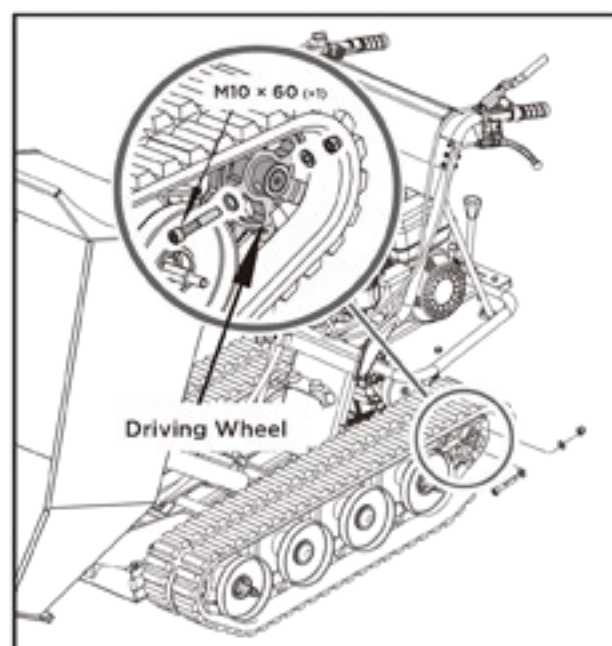
4. Remove the two M10 nuts and washers from the side of track protection guard.



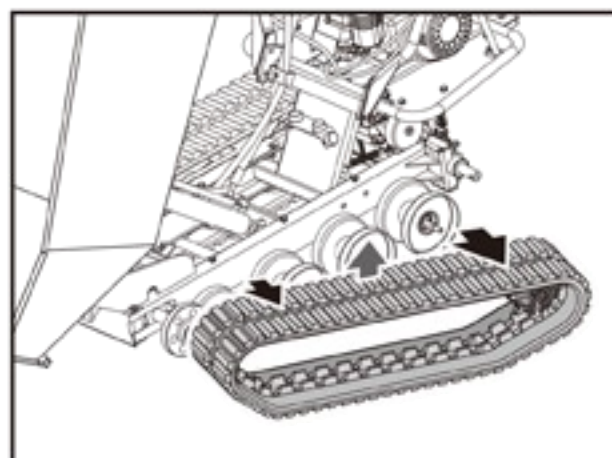
5. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.



6. Remove the M10x60 bolt, washers and nut from the driving wheel.



7. Pull out the whole track with driving wheel.



*When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.*

#### ENGINE MAINTENANCE

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.



## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and run until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the Engine Manual.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



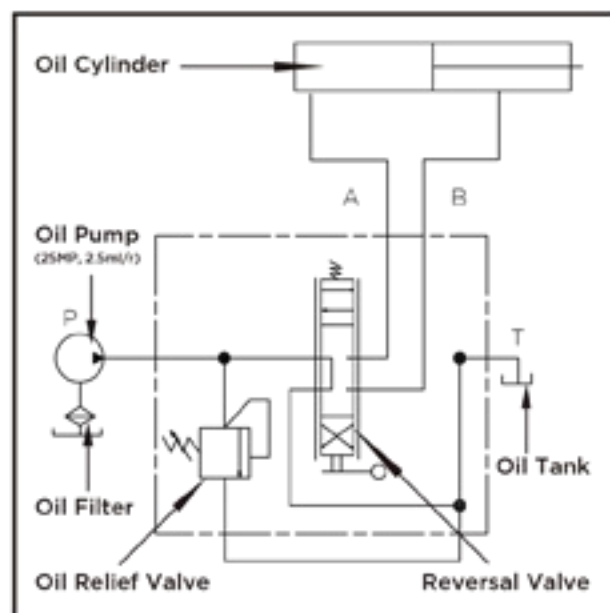
***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***

## HYDRULIC SCHEME

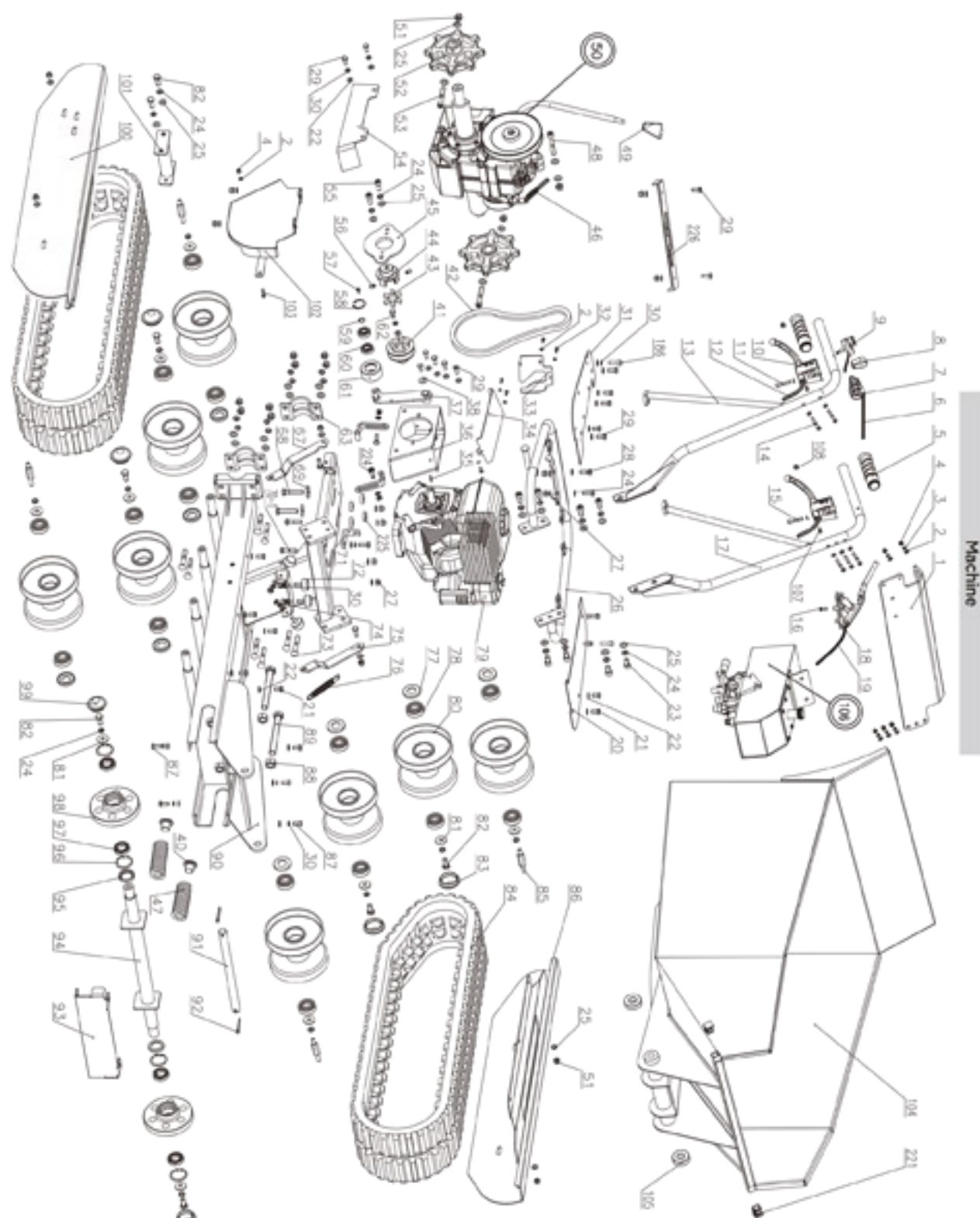


## TROUBLE SHOOTING

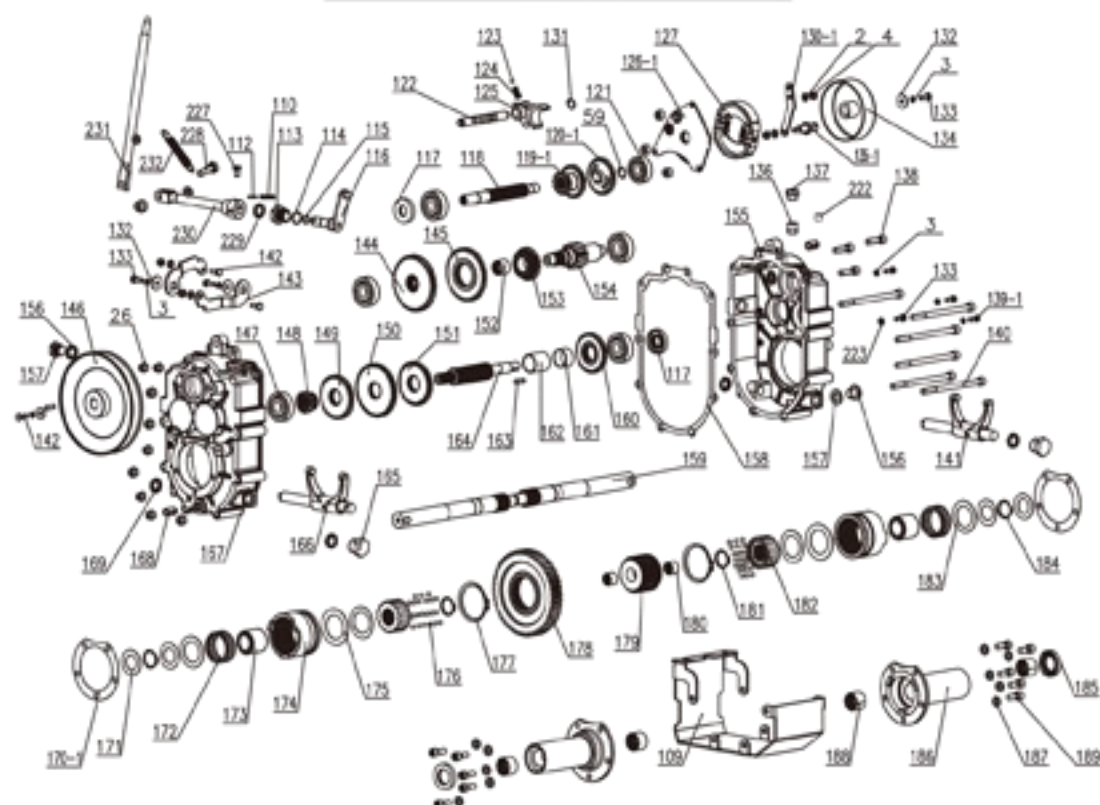
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Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> <li>1. Spark plug wire is disconnected</li> <li>2. Out of fuel or stale fuel</li> <li>3. Engine and/or Fuel valve is not in ON position</li> <li>4. Choke lever is not in CLOSE position</li> <li>5. Blocked fuel line</li> <li>6. Fouled spark plug</li> <li>7. Engine flooding</li> <li>8. Belt tension lever is engaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug</li> <li>2. Fill with clean, fresh gasoline</li> <li>3. Engine and Fuel valve must be in ON position</li> <li>4. Choke level must be in CLOSE position for a cold start</li> <li>5. Clean fuel line</li> <li>6. Clean, adjust gap, or replace</li> <li>7. Wait a few minutes to restart, but do not prime</li> <li>8. Disengage the belt tension lever</li> </ol>
Engine runs erratically	<ol style="list-style-type: none"> <li>1. Spark plug wire is loose</li> <li>2. Unit running with Choke lever in CLOSE position</li> <li>3. Blocked fuel line or stale fuel</li> <li>4. Vent plugged</li> <li>5. Water or dirt in fuel system</li> <li>6. Dirty air cleaner</li> <li>7. Improper carburetor adjustment</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire</li> <li>2. Move choke lever to OPEN position</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline</li> <li>4. Clear vent</li> <li>5. Drain fuel tank. Refill with fresh fuel</li> <li>6. Clean or replace air cleaner</li> <li>7. Refer to engine manual</li> </ol>
Engine overheats	<ol style="list-style-type: none"> <li>1. Engine oil level low</li> <li>2. Dirty air cleaner</li> <li>3. Air flow restricted</li> <li>4. Carburetor not adjusted properly</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil</li> <li>2. Clean air cleaner</li> <li>3. Remove housing and clean</li> <li>4. Refer to engine manual</li> </ol>
One of the two tracks is blocked	Foreign bodies have worked their way between the track and the frame	Remove the foreign body
Machine does not move while engine is running	<ol style="list-style-type: none"> <li>1. Gear is not properly selected</li> <li>2. Driving tracks not tight enough</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears</li> <li>2. Tighten driving tracks</li> </ol>

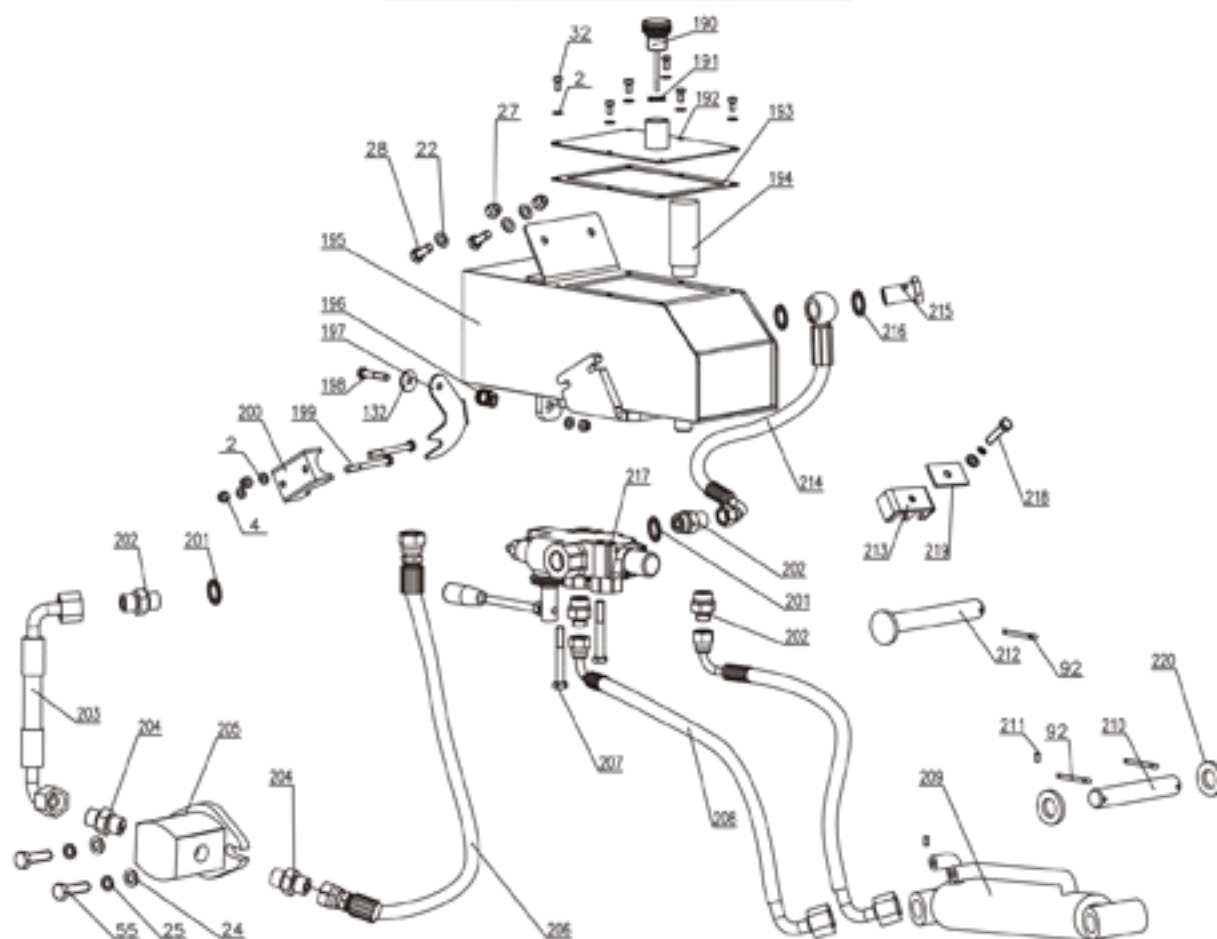
## PARTS SCHEDULE



## Gearbox (50)



## Hydraulic Assembly (106)





No.	Description	Q'ty
1	Bend Plate	1
2	Washer $\phi 6$	35
3	Spring washer 6	12
4	Nut M6	16
5	Handle sleeve	2
6	Throttle Lever	1
7	Throttle Cable	1
8	Hoop	1
9	ON/OFF Switch	1
10	Right/Left Steering Lever	1
11	Screw M6x60	2
12	Right/Left Steering Lever Cable	1
13	Right Handle Frame Assembly	2
14	Screw M6x45	1
15	Screw M6x35	5
16	Screw M6x16	1
17	Left Handle Frame Assembly	1
18	Clutch Control Lever	1
19	Clutch Control Lever Cable	1
20	Soleplate (L)	1
21	Bolt M8x16	13
22	Washer $\phi 8$	50
23	Screw M10x20	8
24	Washer $\phi 10$	32
25	Washer $\phi 10$	28
26	Handle Mounting Frame	1
27	Nut M8	23
28	Bolt M8x25	9
29	Bolt M8x20	7
30	Washer $\phi 8$	16
31	Soleplate (R)	1
32	Bolt M6x12	6
33	Small Belt Pulley Cover 1	1
34	Cover Plate	1
35	Key 5x35	1
36	Fixed Bracket	1
37	Tensioner Pulley Bracket	1
38	Washer $\phi 8$	2
39	_____	—
40	Locating Sleeve	2

No.	Description	Q'ty
41	Small Belt Pulley	1
42	Belt B32	1
43	Rubber Gasket	1
44	Coupler Sleeve (R)	1
45	Pump Mounting Flange	1
46	Brake Cable	1
47	Tension Spring	2
48	Screw M10x70	1
49	Lever	1
50	Gear Box Complete	1
51	Lock Nut M10	15
52	Driving Wheel	2
53	Screw M10x60	2
54	Small Belt Pulley Cover 2	1
55	Screw M10x25	4
56	Screw M6x8	2
57	Screw M5x12	1
58	Circlip 35	1
59	Circlip 15	2
60	Bearing 6202-2RS	2
61	Tensioner Pulley	1
62	Bolt M8x30	2
63	Wheel Shaft Press Plate	2
64	_____	—
65	_____	—
66	_____	—
67	Support Plate	1
68	Bolt M8x50	2
69	Washer	2
70	Bolt M8x45	2
71	Cable Fixing Bracket	1
72	Rubber Mat	4
73	Bolt M10x65 w/glue	8
74	Nut M8	4
75	Support Plate (L)	1
76	Long Extension Spring	1
77	Gasket 25x47x7	8
78	Bearing 6204-2RS	16
79	Engine (6.5HP)	1
80	Supporting Wheel weldment	8

No.	Description	Q'ty
81	Washer $\phi 10$	14
82	Bolt M10x25	8
83	$\phi 47$ Axle Head Cover (Support Wheel)	4
84	Track 180x60	2
85	Two-head Stud	4
86	Guard Plate (L)	1
87	Screw M8x20	4
88	Nut M16	2
89	Bolt M16x140	2
90	Chassis Weldment	1
91	Optical Axis	1
92	Cotter Pin $\frac{5}{16}$ 4X35	5
93	Rear Cover	1
94	Guide Wheel Axle	1
95	Gasket 42x30x7	2
96	Circlip 42	4
97	Bearing 61905-2RS	4
98	Guide Wheel	2
99	$\phi 47$ Axle Head Cover (Guide Wheel)	2
100	Guard Plate (R)	1
101	Supporting Bracket Weldment	1
102	Large Belt Pulley Cover	1
103	Bolt M6x20	1
104	Dumper Box	1
105	Spring Washer	2
106	Hydraulic System	1
107	Screw M5x20	2
108	Nut M5	2
109	Guard Cover	1
110	Cylindrical Pin 5x30	1
111	Gearshift Lever	1
112	Cylindrical Pin 3x30	1
113-1	Locating Nut	1
114	Washer Groupware 20	1
115	O-ring 11.2x1.8	1
116-1	Lever Mount Bracket	1
117	Seal FB17x40x7	2
118	Spline Shaft I	1
119-1	Duplex Slip Gear	1
120-1	Gear	1

No.	Description	Q'ty
121	Bearing 6302	1
122	Gearshift Fork Guide Pin	1
123	Small spring	1
124	Steel Ball 6	1
125	Gearshift Fork	1
126-1	Brake Drum Fixing Plate	1
127	Brake Disk Assy	1
128	_____	—
129	_____	—
130-1	Brake Pull Plate	1
131	Circlip 12	1
132	Washer 6	4
133	Bolt M6x16	4
134	Expansion Brake Cover	1
135-1	Stud	1
136	Vent-Plug Joint sleeve	1
137	Vent-Plug	1
138	Screw M8x30	3
139-1	Bolt M6x30	3
140	Screw M8x130	6
141	Clutch Fork Shaft ( L )	1
142	Bolt M6x20	3
143	Swing Plate	2
144	Gear III -4	1
145	Gear III -3	1
146	Large Belt Pulley	1
147	Bearing 6303	5
148	Gear II -5	1
149	Gear II -4	1
150	Gear II -3	1
151	Gear II -2	1
152	Gear III -2 Bush	1
153	Gear III -2	1
154	Gear Shaft III	1
155-1	Gear Box Case (L)	1
156	Plug M14x1.5	2
157	Washer Groupware 14	2
158	Gear Box Case Paper Spacer	1
159	Output Shaft	2
160	Gear II -1	1

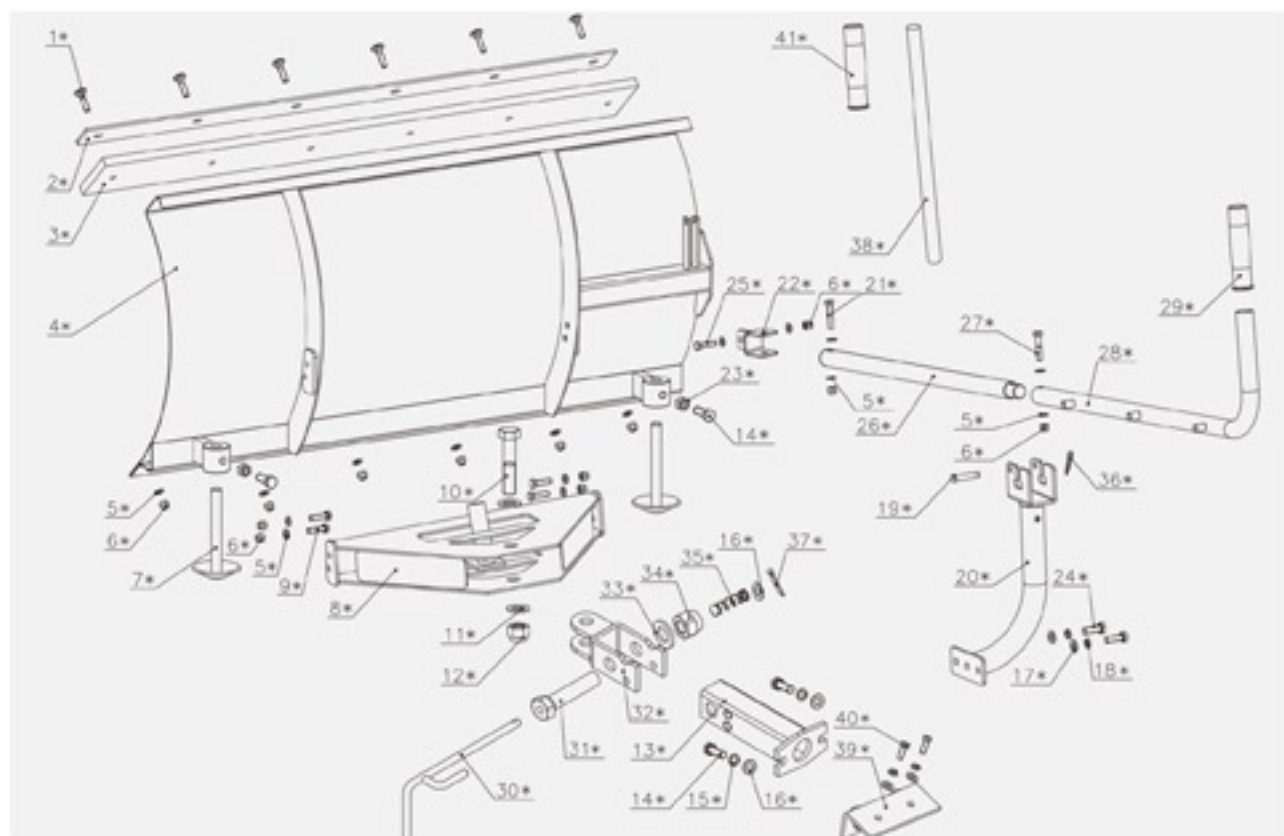
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No.	Description	Q'ty
161	Bush 2	1
162	Bush 1	1
163	Key C5x20	2
164	Spline Shaft II	1
165	Plug M18x1.5	2
166	Clutch Fork Shaft ( R)	1
167	Gear Box Case ( R)	1
168	Pin 12x20	2
169	Seal FB16x22x4	2
170-1	Output Gear Bush Paper Spacer	2
171	Gasket 1	4
172	Clutch Spring	2
173	Spring Guide Bush	2
174	Clutch Bush	2
175	Spring Gasket	2
176	Steel Ball 5	70
177	Circlip 58	2
178	Output Gear	1
179	Intermediate Joint Bush	1
180	Intermediate Joint Bush Composite Bushing	2
181	Circlip 26	2
182	Joint Bush	2
183	Spring Gasket	4
184	Circlip 25	2
185	Washer ø8	10
186	Output Gear Bush Weldment	2
187	Seal FB42x25x7	2
188	Output Shaft Composite Bushing	4
189	Bolt M8x25 w/glue	12
190	Oil dipstick Assy	1
191	O -Ring 16x1.8	1
192	Tank Cover	1
193	Asbestos Cushion	1
194	Oil Filter	1
195	Tank	1
196	Torsion Spring	1
197	Returning Plate	1
198	Bolt M6x30	1
199	Bolt M6x60	2
200	Tank Fixing Bracket	1

No.	Description	Q'ty
201	Combined Sealing Gasket 18	4
202	Connector	4
203	Oil Outlet Pipe	1
204	NPT3/8-M18x1.5	2
205	Pump	1
206	Oil Inlet Pipe	1
207	Bolt M8x55	2
208	Rubber hose	2
209	Welding Cylinder	1
210	Spindle 2	1
211	Oil Cup 6x1	2
212	Spindle 1	1
213	Pipe Clamp	1
214	Oil Return Pipe	1
215	Bolt M14x1.5	1
216	Washer Groupware 14	2
217	Reversing Valve	1
218	Bolt M8x40	1
219	Pipe Clamp Plate	1
220	Washer 20	2
221	Pipe Plug 19x19	2
222	Spongy Cushion	1
223	Combined Sealing Washer	1
224	Bolt M8x25	2
225	Rubber Pad	4
226	Gearshift Panel	1
227	Bolt M8x12	1
228	Bolt M10x35	1
229	Seal FB14x24x7	1
230	Gearshift Lever I	1
231	Gearshift Lever I	1
232	Spring	1



# Plow Blade (Optional)



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## Parts List

No.	Description	Q'ty
1	Bolt M8×35	6
2	Shave Plate	1
3	Rubber Plate	1
4	Blade Weldment	1
5	Washer8	16
6	Nut M8	13
7	Landing Leg Weldment	2
8	Blade Fixed Bracket Weldment	1
9	Bolt M8×30	4
10	Bolt M20×95	1
11	Washer 20	2
12	Nut M20	1
13	Blade Connecting Bracket Weldment	1
14	Bolt M12×40	4
15	Washer 12	2
16	Washer 12	3
17	Washer 10	4
18	Washer 10	4
19	Pin 10×60	1
20	Curved Support Bracket Weldment	1

No.	Description	Q'ty
21	Bolt M8×50	1
22	Active Connecting Weldment	1
23	Nut M12	2
24	Bolt M10×25	2
25	Bolt M8×35	1
26	Adjusting Rod Weldment B	1
27	Bolt M8×40	1
28	Adjusting Rod Weldment A	1
29	Handle Sleeve 28	2
30	Limiter Rod Wedment	1
31	Bolt M24×110	1
32	Limiter Weldment	1
33	Washer24	1
34	Lock Nut M24	1
35	Spring	1
36	Bridge Pin 2×11×35	1
37	Pin 4×40	1
38	Handle Grip 2	1
39	Bended Plate	1
40	Bolt M10×30	2
41	Handle Sleeve 25	1

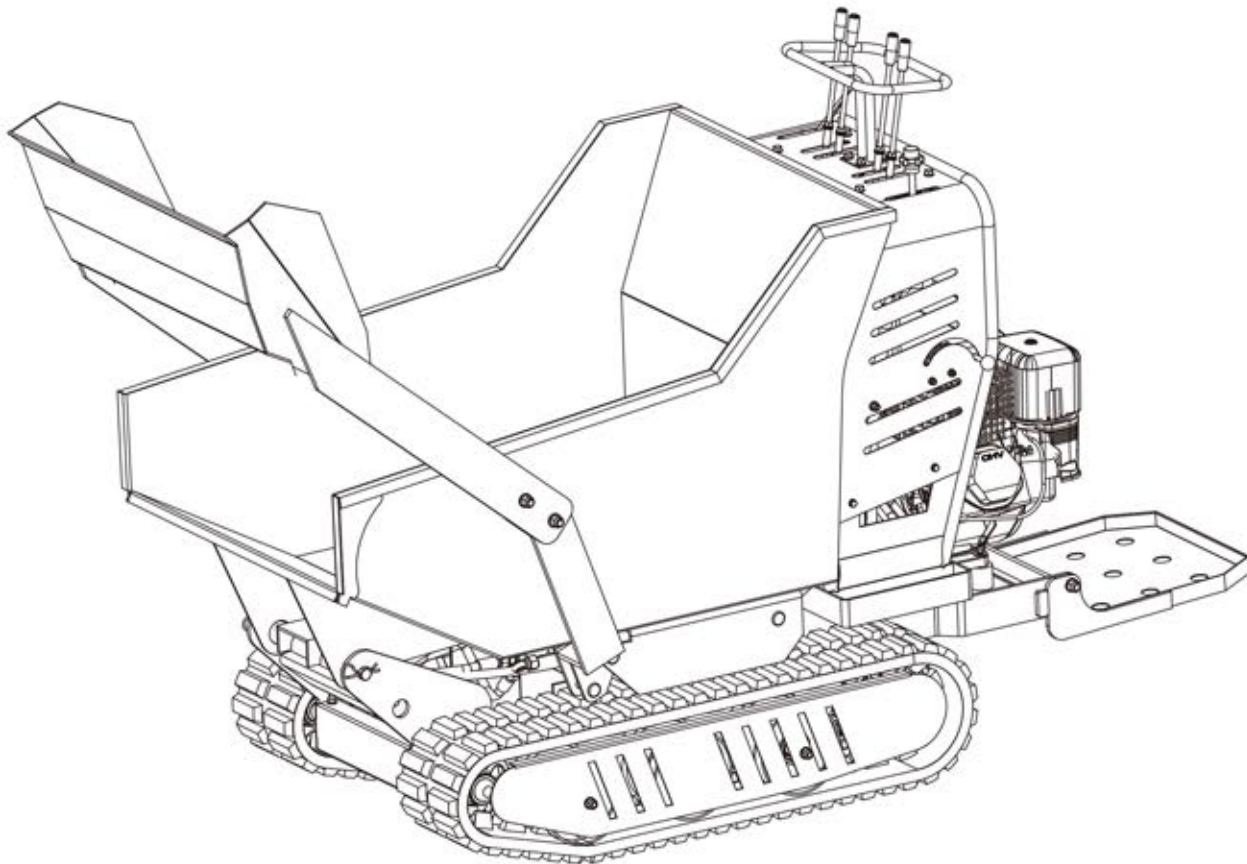
MINI TRACKED DUMPER





Save This Manual for Future Reference

Original Instruction



# Mini Tracked Dumper

## Operator's Manual

MODEL NUMBER : ☐ QTP500H

SERIAL NUMBER :

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE

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## INTRODUCTION

Your new Mini Tracked Dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



*Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.*

The 2-speeds, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the

**Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

Due to the small loading, this machine is suitable only for gardens, not for construction or other similar sites.

## Specifications

Item No.	QTP501H	QTP500H
Engine	196cc, 4.8kW	270cc, 6.6kW
Transmission	Hydrostatic	
Load Capacity	500 kg	
Box Length	1065 mm	
Box Width	715 mm	
Box Depth	660 mm	
Track Width	180 mm	
Pump Flow	15.1 L/min	
Sound power level	100 dB(A) k=2 dB(A)	101 dB(A) k=2 dB(A)
Sound pressure level	80.3 dB(A) k=2 dB(A)	81.5 dB(A) k=2 dB(A)
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>
	Right	11.3 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>
Weight	350 kg	360 kg

## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.





## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Do not touch parts that are hot from operation. Serious burns may result.



Keep your hands clear from all rotating parts.



Never start or run the engine inside a closed area.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Do not head downhill while moving on the slope with full load.



Be aware, objects may be thrown while in use.



Keep your feet and hands away from moving parts. Moving parts can crush or cut.



Danger! Keep your hands away from the space between the hopper and chassis while the bucket is falling down.



Be careful falling objects.



Tipping hazard!



The maximum horizontal climbing angle should not exceed 10 degrees.



The maximum longitudinal climbing angle should not exceed 20 degrees.



Head uphill while moving on the slope with full load.



Do not allow anyone sitting or standing in the hopper while driving.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Always turn off the engine before starting maintenance.



Keep children and bystanders off and away.

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## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service





on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

## Specific Safety Rules

Thoroughly inspect the area to be worked, keep the working area clean and free of debris to prevent tripping. Operate on a flat level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, and operation, maintenance, repairing or moving.

Keep all bystanders, children, and pets at least 23m (75 feet) away. If you are approached, stop the unit immediately.

Do not mount anything on the dump box and never carry passengers

Never park the machine in a place with unstable ground which could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

**Do not overload the machine capacity. Drive at a safe speed, adjusting the speed to the slope of the land, the surface conditions of the road, and the weight of the load.**

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/

reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground as the machine may tend to skid.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

Never operate the machine on slopes where angle is over 20°.

When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always move in directions parallel with the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on e.g. wet clay.

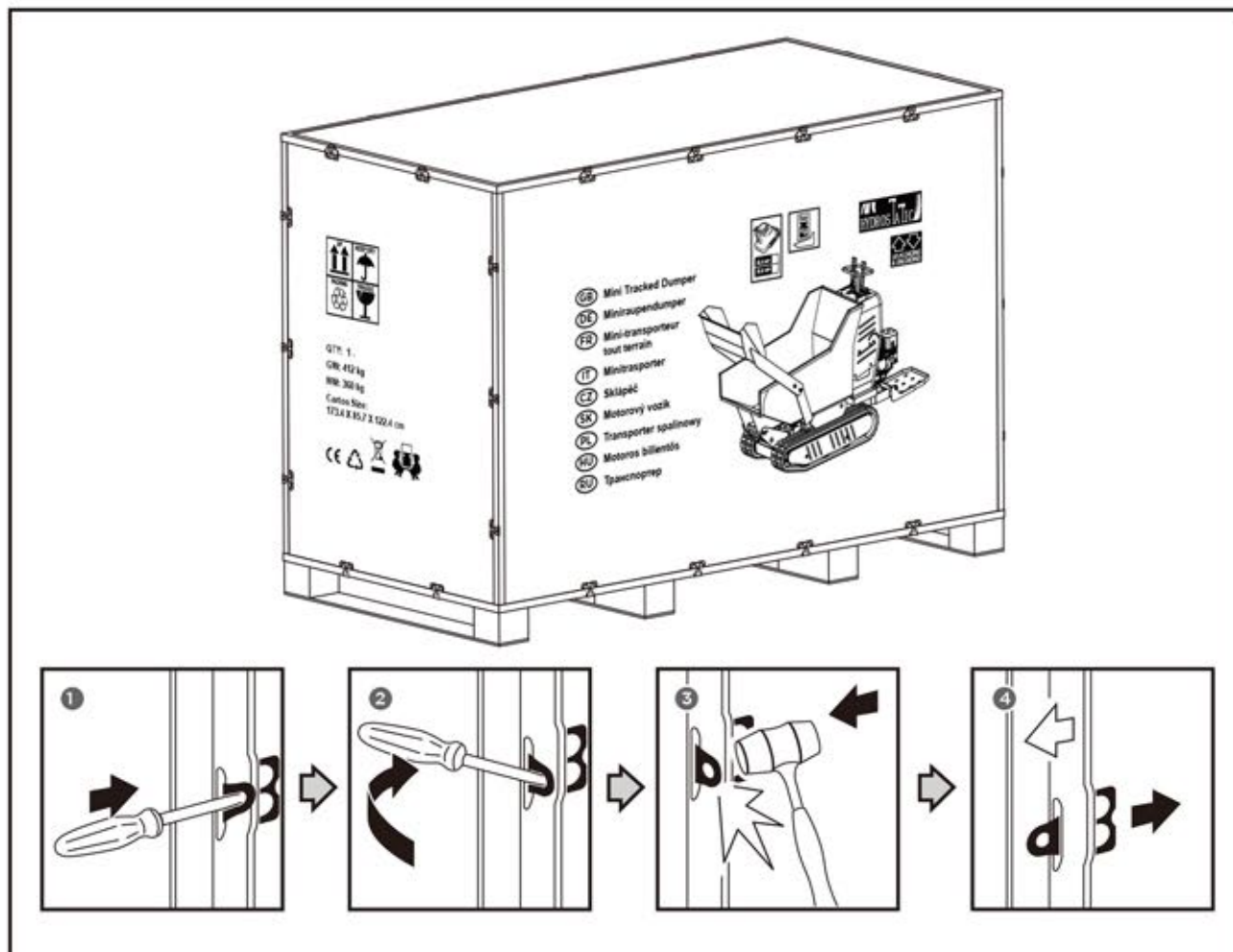




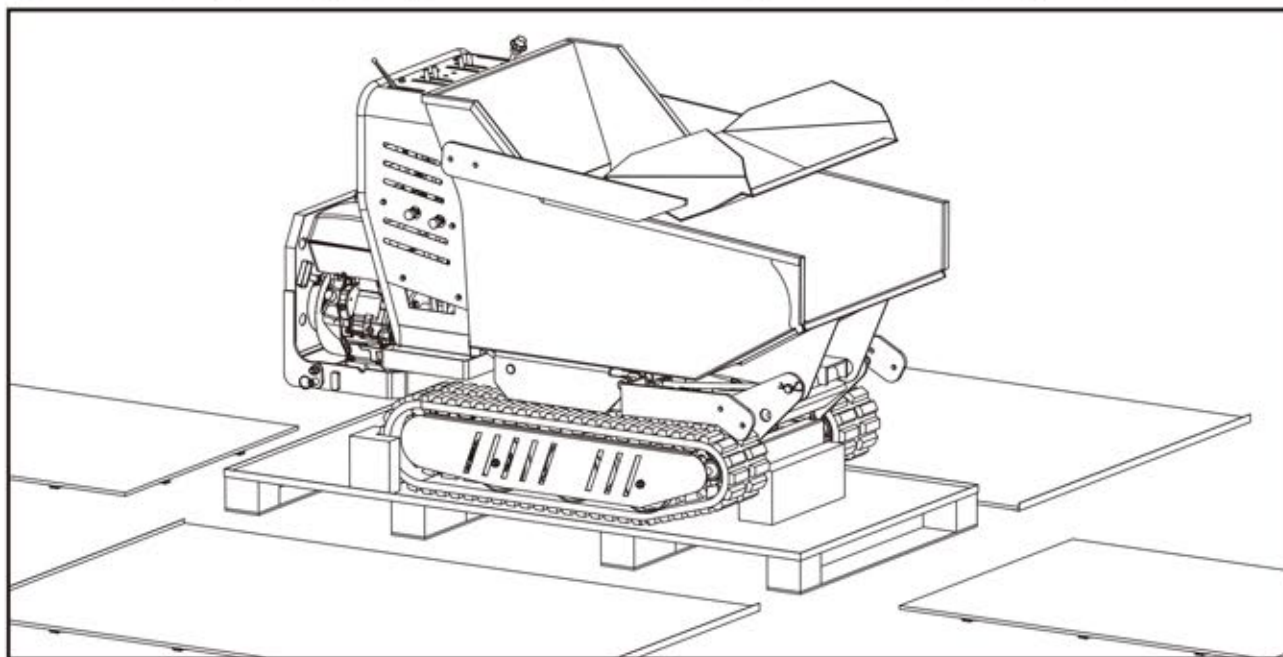
## UNPACKING THE CONTAINER

GB

Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.

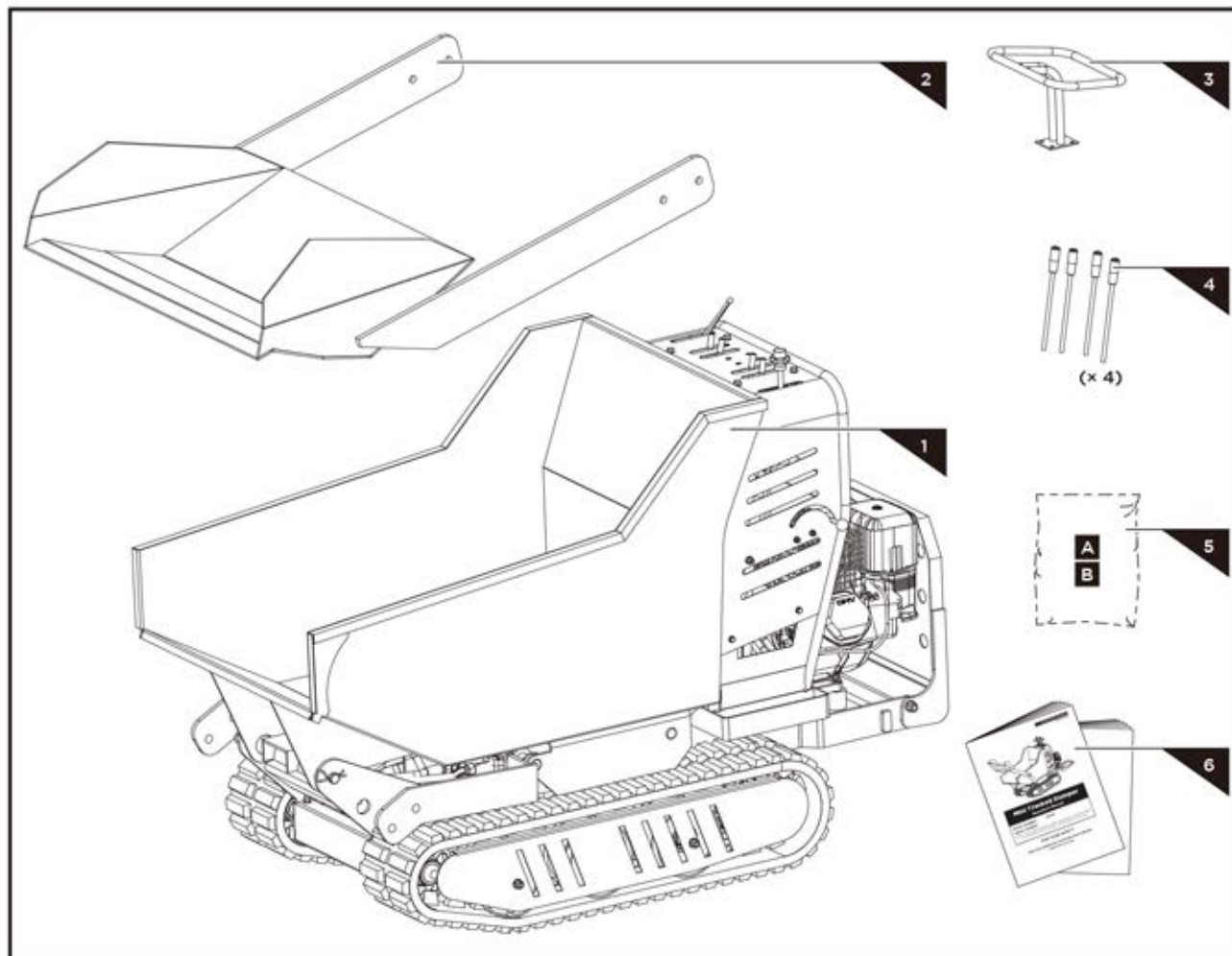


MINI TRACKED DUMPER

7

## CONTENTS SUPPLIED

The Mini Tracked Dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Main Body
2. Self-Loading Shovel
3. Handle Assembly

4. Control Lever
5. Hardware Bag
6. Operator's Manual & Engine Manual



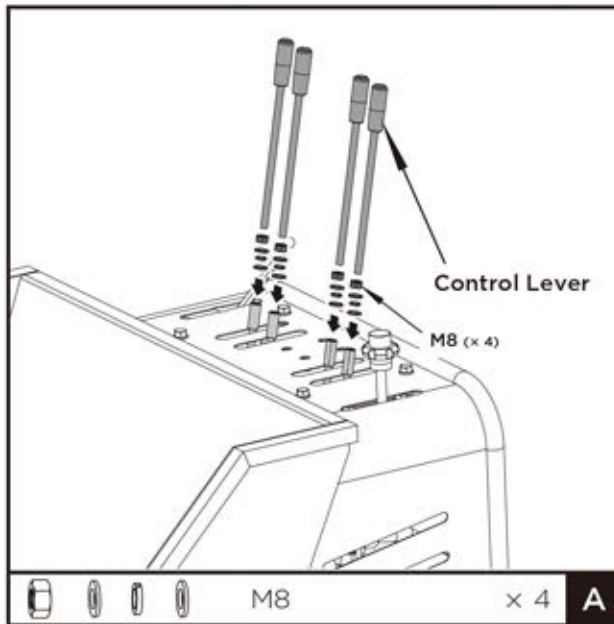


## ASSEMBLY

This Mini Tracked Dumper was partially assembled at the factory. To assemble your machine follow the below instructions.

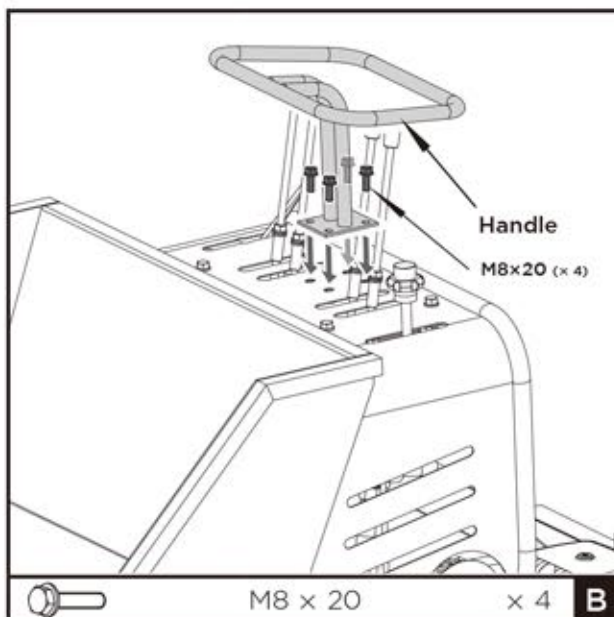
### Control Lever Assembly

Insert the control levers into the connecting sleeves with M8 nuts and washers. Tighten the nuts.



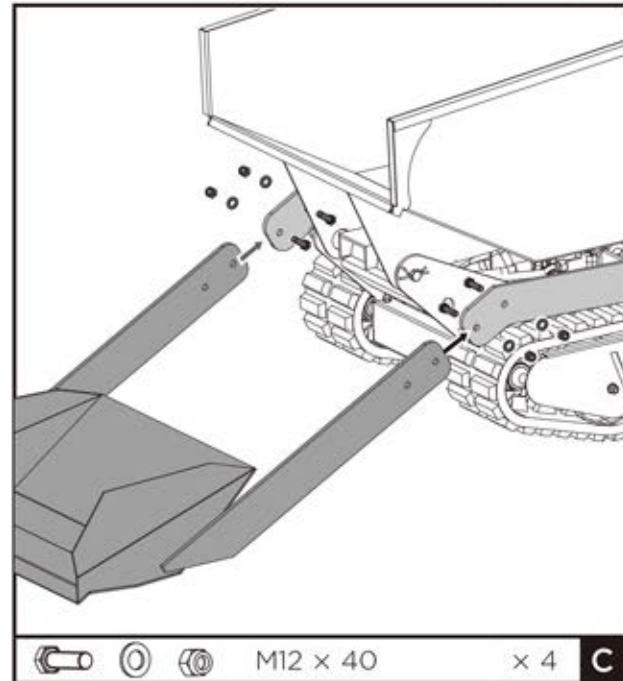
### Handle Assembly

Tightly fix the handle frame assembly on the operation board with four M8x20 bolts.



### Shovel Assembly

Attach the connecting plates of the self-loading shovel to the connecting plates of the chassis from outside and align the holes. Secure the connection with two M12x40 bolts, washers and nuts on both sides.



### Engine Oil

**OIL HAS BEEN DRAINED FOR SHIPPING.**

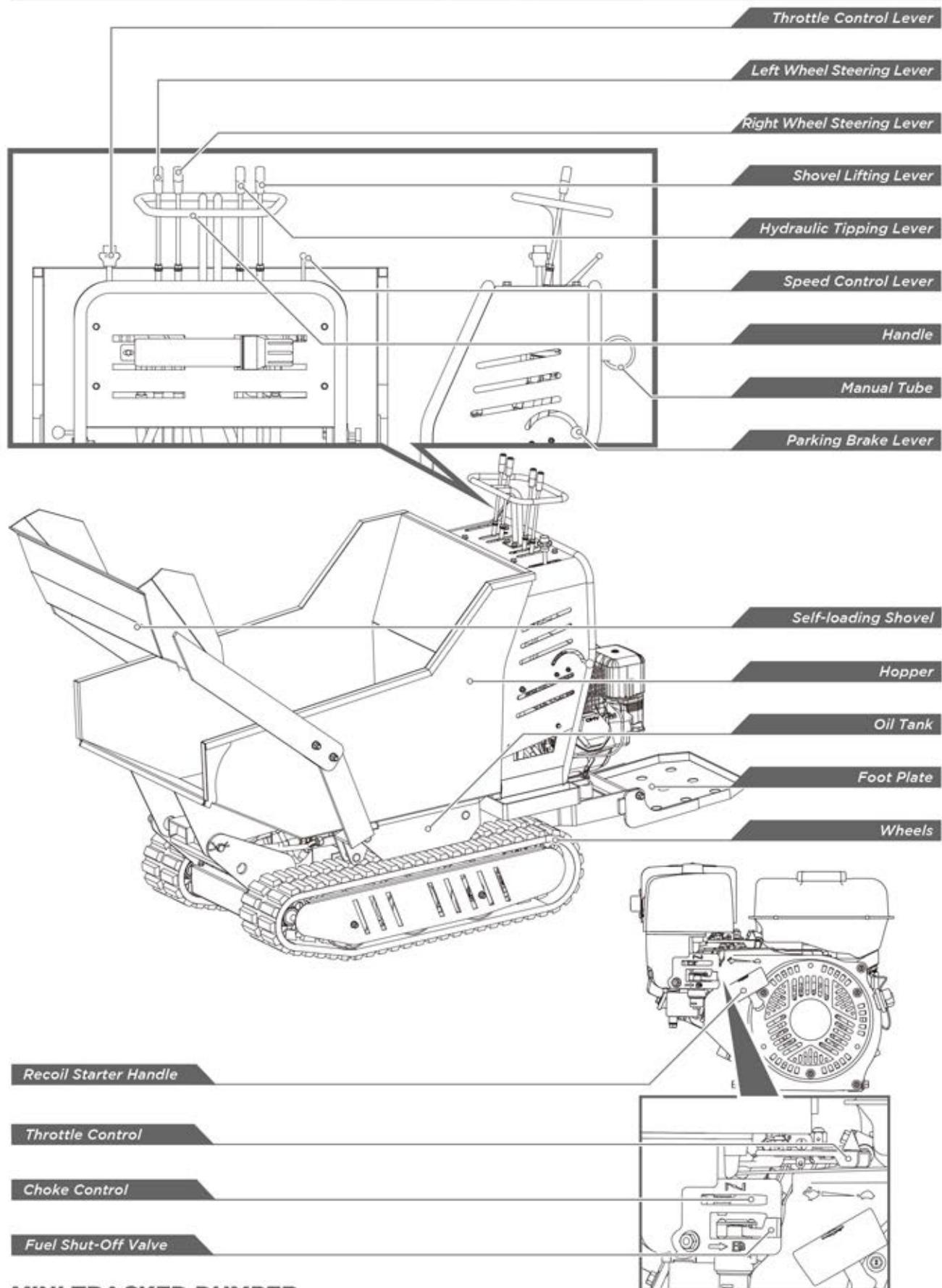


**Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.**

Add oil according to **Engine Manual** packed separately with your track dumper.

# KNOW YOUR MACHINE

## Features and Controls

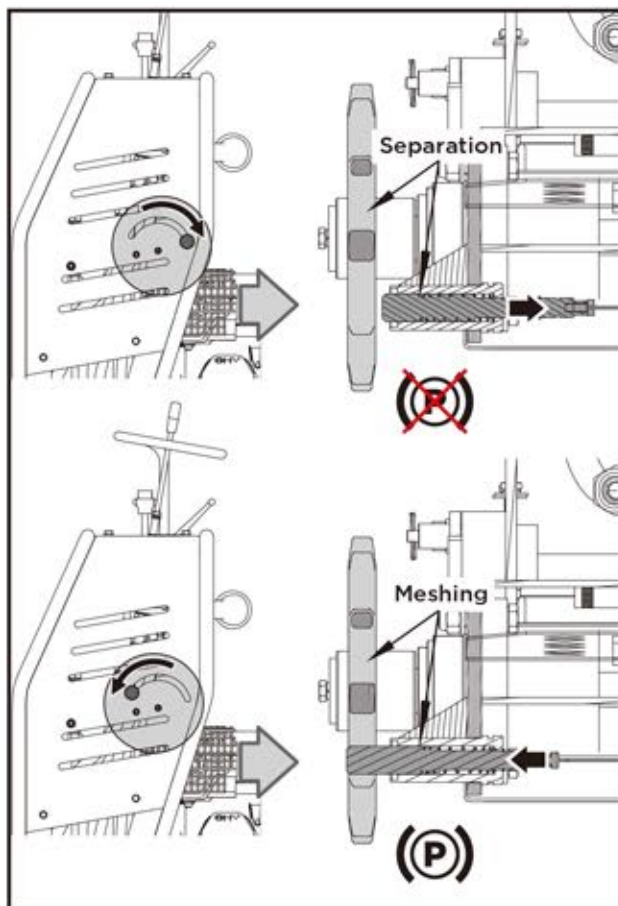




### Parking Brake Lever



To release the brake, pull the brake lever to the operator's direction. At this position, the machine can be driven and turned freely. To engage the brake, push the brake lever to the opposite direction of the operator. At this position, the machine cannot be moved.



### Speed Control Lever

The speed control lever only has two positions: the highest speed and the lowest speed.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the power barrow.**

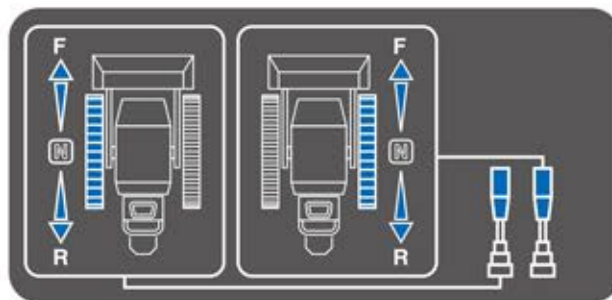
Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the power trackbarrow.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Hydraulic Tipping Lever

Use your left hand, push the lever to forward direction to tip the hopper, pull back the lever to flat the hopper in its original position.

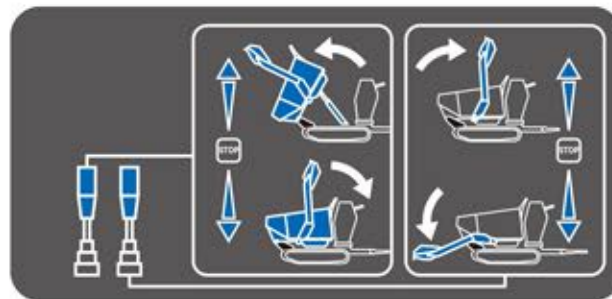


### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**



### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The recoil starter handle is used to start the engine.



### Fuel Shut-Off Valve

The fuel shut-off has two positions:

CLOSED (🔒) - Use this position to service, transport, or to store the unit.

OPEN (🔓) - Use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST 🏎️, SLOW 🐢, and STOP positions. The throttle control will shut off the engine when it is moved to the STOP position.



### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED 🚫 and CHOKE OPEN 🚦 positions.



**Never use choke to stop engine.**

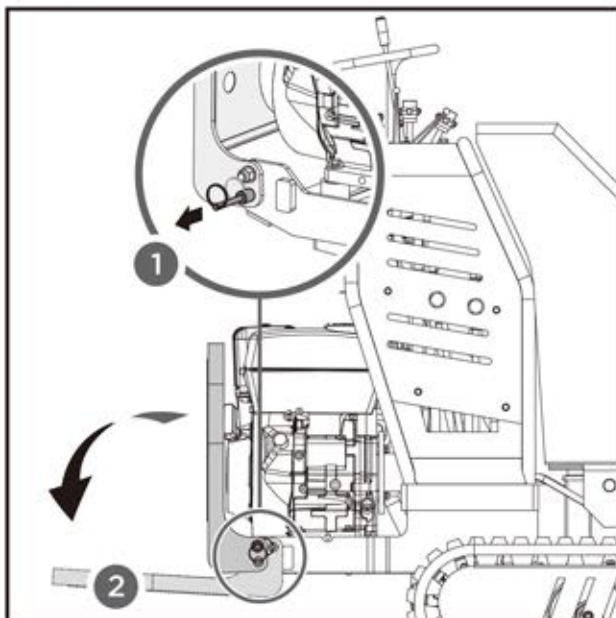
### Clutch Control Lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

### Foot Plate

Pull the ring to pull out the pin as shown in step 1, and then rotate the foot plate to level it.

Lift up the plate until the rotation pin returns. Thus the plate can be secured in upright position.



*1. Turning operation requires the ball valve at low speed. Operate it only after adjusting the throttle according to the actual load. Do not make a turn when the ball valve is at high speed gear;*

*2. For driving, it is necessary to stably control the valve lever. Avoid sudden stop or start in operation;*

*3. For normal driving start, it is necessary to stably control the valve lever to start when the ball valve is at low speed gear;*



*4. To stop at high speed, the ball valve needs to be switched to the low speed gear or small throttle state to stabilize the control valve lever to stop;*

*5. During normal driving, do not loosen one of the two travel control valve levers to avoid misoperation of high-speed turning;*

*6. When driving up and down, the foot plate should be closed. Do not stand on the plate to operate the dumper on a slope.*

*7. When the self-loading shovel falls back, the valve levers need to be stably controlled to avoid big impact between the shovel and ground.*





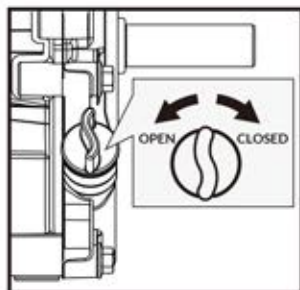
## Operation

### Add Oil To Engine



*The engine is shipped without oil. Do not start the engine before adding oil. Please refer to your engine manual for the proper grade of oil to add.*

1. Make sure the power trackbarrow is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL.** Check engine oil level daily and add as needed.

### Add Gasoline To Engine



*Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.*



*Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.*

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

### IMPORTANT: DO NOT OVERFILL!



*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

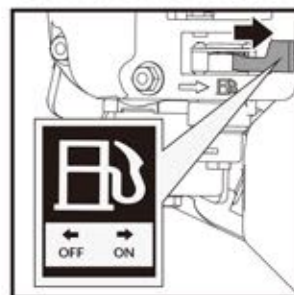
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

### Starting Engine

1. Move the engine switch to the ON position.



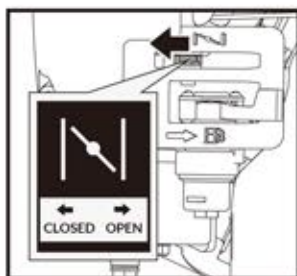
2. Open the fuel shut-off valve.



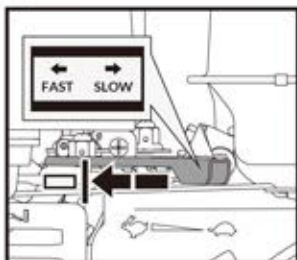
3. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.

GB



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

### Operating

After engine warms up, pull throttle lever to accelerate engine speed.

The Mini Tracked Dumper has the steering levers on the handlebars and this makes steering very easy. To turn right or left, simply operate the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and that with the empty machine, a light pressure on the lever is all that is needed to turn. While when the machine is loaded, more pressure is required.

The Mini Tracked Dumper has a maximum capacity of 500kg. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.

Avoid sharp turns and frequent changes of direction while driving on the road, in particularly on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the Mini Tracked Dumper unstable.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the wheels.

### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

### STOP ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🔒) position.





***Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.***



***Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.***

## MAINTENANCE

Maintaining your Mini Tracked Dumper will ensure long life to the machine and its components.

### Preventive Maintenance

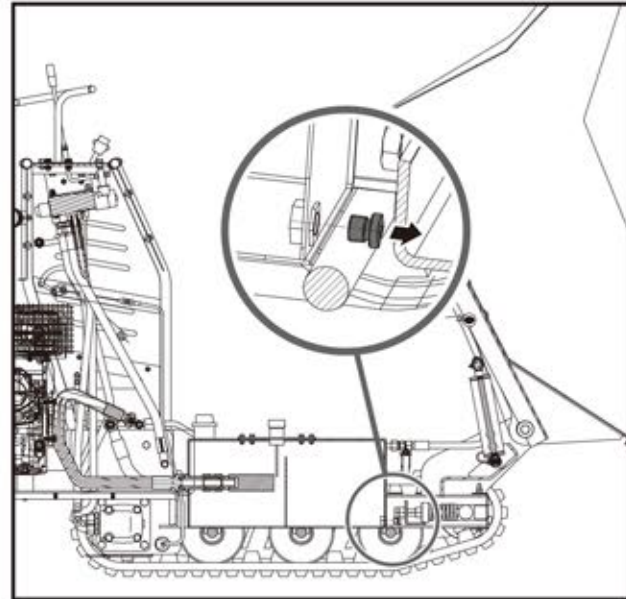
1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the power trackbarrow. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Check the spark plug wire regularly for signs of wear, and replace when needed.



***Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.***

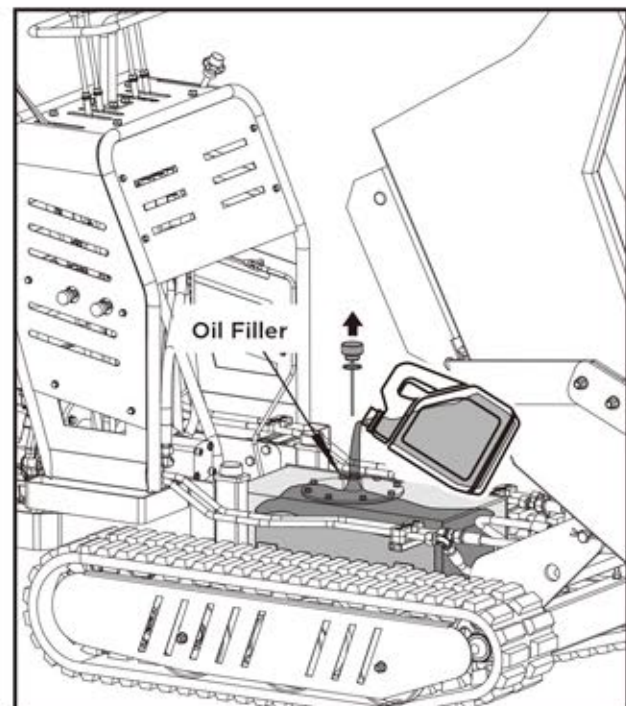
### Hydraulic Oil

Operate the valve levers to lift the self-loading shovel to the highest position and tip the hopper to the extreme. Unscrew the oil plug and drain the oil into a container.



Remove the oil dipstick with gasket and add hydraulic oil. The recommended hydraulic oil is 10W AW32, ASLE H-150, or ISO 32. Tank capacity is 22.5L.

Attention! Do not operate the valve levers during draining or adding oil, to prevent the shovel and hopper from falling.



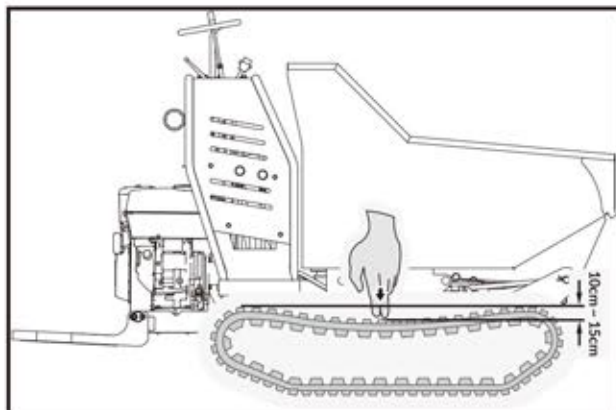


## Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

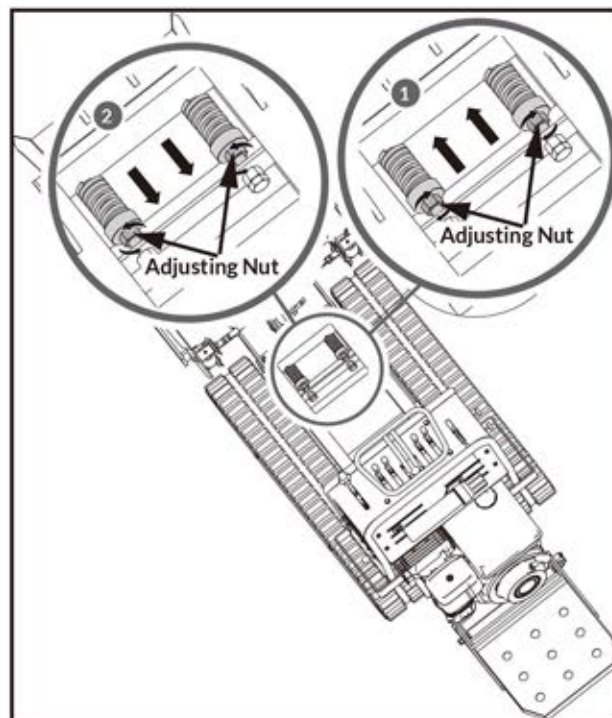
To check track tightness, proceed as follows.

1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10cm-15cm.



If the reading is not within the required range, follow the steps below to adjust the track.

1. Start the machine, slowly control the tipping valve lever to tip the hopper to the maximum position, and turn off the machine.
2. When the reading is too big, screw the adjusting nut counterclockwise as shown in Fig. 1 until the tension of the track reaches the appropriate range.
3. When the reading is too small, screw the adjusting nut clockwise as shown in Fig. 2 until the tension of the track reaches the appropriate range.
4. Make sure that no one is in the dangerous zone under the hopper, slowly control the tipping valve lever to return the bucket to the original position with manual assistance.



**Do not over-tighten your track.**  
The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

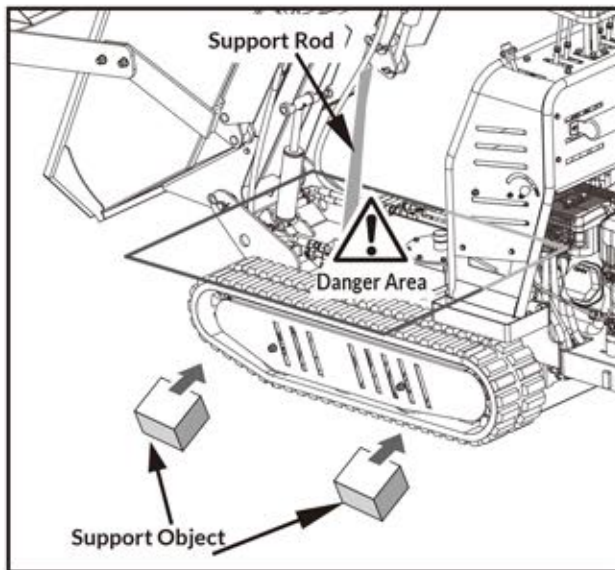


**If the adjustment nut has no more adjustment left, the tracks may have to be replaced.**

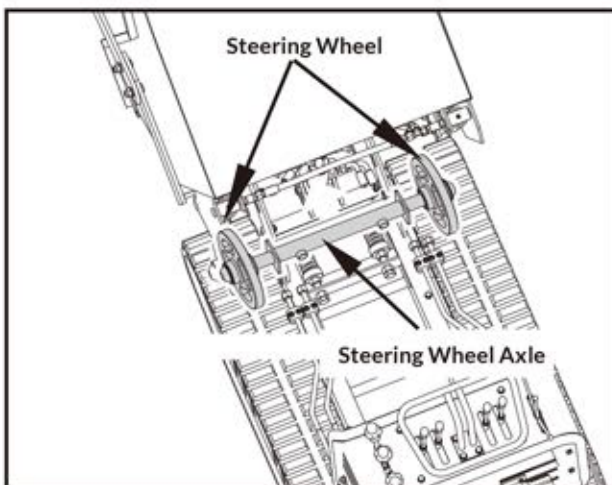
## Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

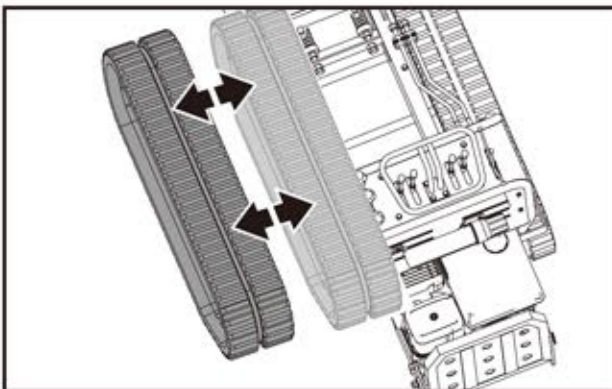
1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 4" off the ground.



3. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.



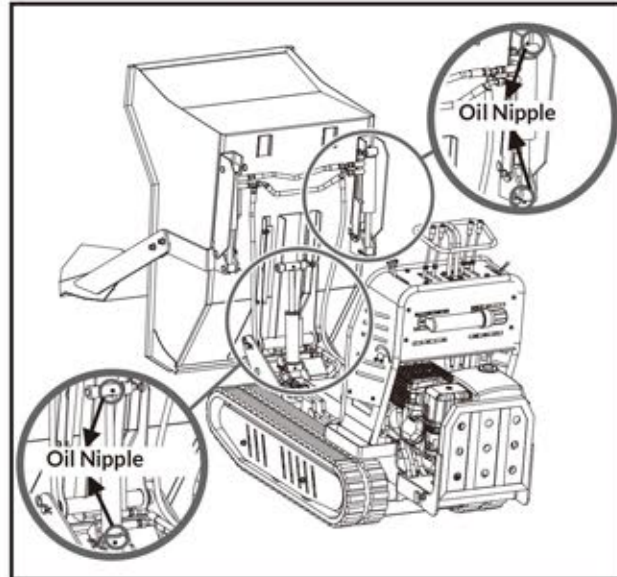
4. Pull out the whole track.



**When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.**

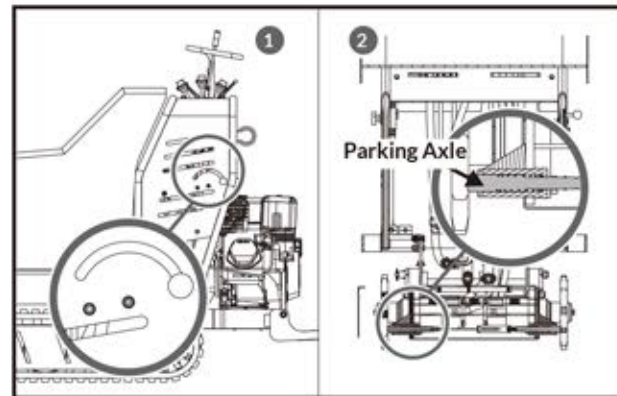
## Lubrication

There are two oil cups on the shovel cylinder and the hopper cylinder each, which require regular lubricating oil injection.



## Adjusting Parking Cable

1. If the parking lever is turned to the position shown in Fig. 1, and the parking axle is still in the parking state shown in Fig. 2, follow the steps below to adjust the parking cable.



2. Place the machine on flat ground.

Start the machine, slowly control the tipping valve lever to tip the hopper to the maximum position, and turn off the machine.

Remove the four flange bolts M6x12 and take off the front guard plate.

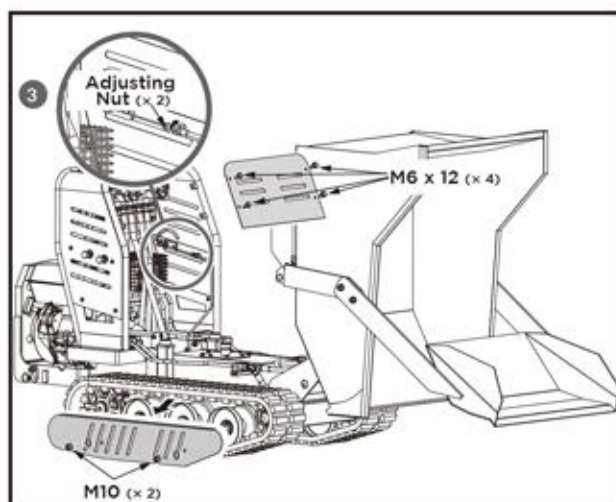
Remove the two nuts M10 with washers and take off the front guard plate.

Screw the two adjusting nuts in the

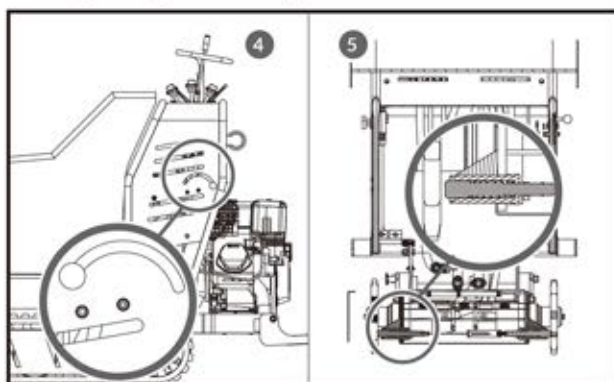


direction shown in the figure and observe the parking axles from both sides until both axles are over 2mm from the side of driving wheels. Tighten the adjusting nuts.

Mount the front guard plate and side guard plate back to the original position.



3. If the parking lever is turned to the position shown in Fig. 4, and the parking axle is still in the parking state shown in Fig. 5, repeat the same steps above, but screw the adjusting nuts in opposite direction.



### Tire Pressure

Check the pressure of tires periodically to make sure they are properly inflated. Recommended pressure is 30psi for all the tires.

**Separation of tire and rim parts is possible when they are serviced incorrectly.**

**Do not attempt to mount a tire without the proper equipment and experience to perform the job.**



**Do not inflate the tires above the recommended pressure.**

**Do not weld or heat a wheel and tire assembly. Welding can structurally weaken or deform the wheel. Heating can cause an increase in the air pressure resulting in burst.**

**Do not stand in front or over the tire assembly while inflating.**

### Engine Maintenance

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

## STORAGE

If the Mini Tracked Dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.





***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.

6. Store your unit on flat ground in a clean, dry building that has good ventilation.

**GB**

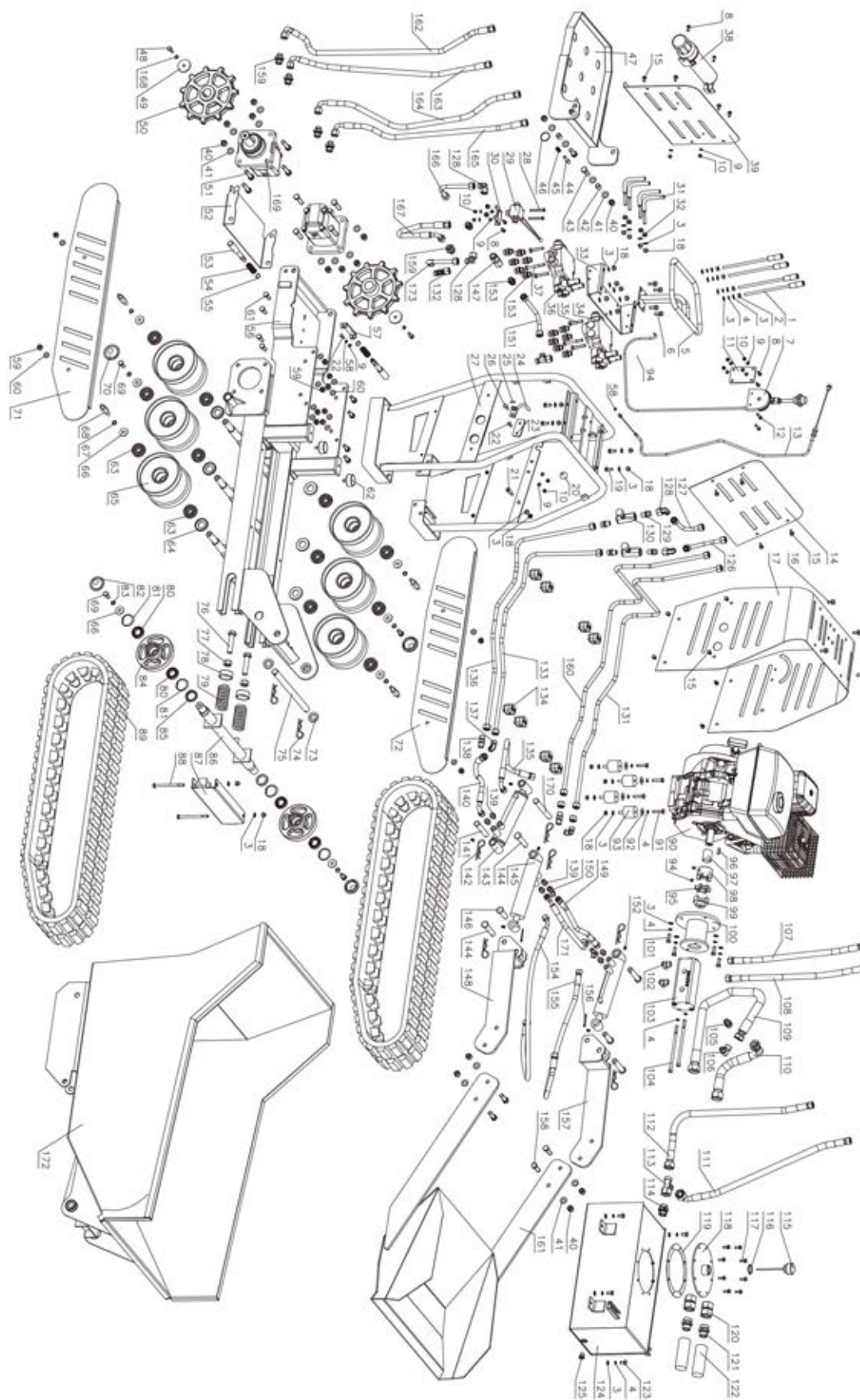


***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***

## TROUBLE SHOOTING

Problem	Cause	Remedy
Engine fails to start.	1. Spark plug wire disconnected. 2. Out of fuel or stale fuel. 3. Choke not in open position. 4. Blocked fuel line. 5. Fouled spark plug. 6. Engine flooding.	1. Attach spark plug wire securely to spark plug. 2. Fill with clean, fresh gasoline. 3. Throttle must be positioned at choke for a cold start. 4. Clean the fuel line. 5. Clean, adjust gap, or replace. 6. Wait a few minutes to restart, but do not prime.
Engine runs erratically.	1. Spark plug wire loose. 2. Unit running on CHOKE. 3. Blocked fuel line or stale fuel. 4. Vent plugged. 5. Water or dirt in fuel system. 6. Dirty air cleaner. 7. Improper carburetor adjustment.	1. Connect and tighten spark plug wire. 2. Move choke lever to OFF. 3. Clean fuel line. Fill tank with clean, fresh gasoline. 4. Clear vent. 5. Drain fuel tank. Refill with fresh fuel. 6. Clean or replace air cleaner. 7. Refer to Engine Manual.
Engine overheats.	1. Engine oil level low. 2. Dirty air cleaner. 3. Air flow restricted. 4. Carburetor not adjusted properly.	1. Fill crankcase with proper oil. 2. Clean air cleaner. 3. Remove housing and clean. 4. Refer to Engine Manual.
One of the two tracks is blocked.	Foreign bodies have worked their way between the track and the frame.	Remove the foreign body.
Machine does not move while engine is running.	1. Gear is not properly selected. 2. Driving tracks not tight enough.	1. Ensure gear lever is not in-between two different gears. 2. Tighten driving tracks.

## PARTS SCHEDULE







## Parts List

**GB**

No.	Description	Q'ty
1	Valve Lever	4
2	Nut M8	4
3	Washer 8	35
4	Washer 8	22
5	Handle	1
6	Bolt M8x20	4
7	Throttle Controller	1
8	Bolt M6x16	6
9	Washer 6	13
10	Nut M6	12
11	Throttle Mounting Plate	1
12	Bolt M6x30	2
13	Parking Cable	1
14	Front Guard	1
15	Bolt M6x12	14
16	Bolt M8x16	4
17	Top & Side Guard	1
18	Nut M8	21
19	Bolt M8x20	4
20	Ball Knob M8x25	1
21	Cable Fixing Bolt	1
22	Bolt M6x20	2
23	Subplate for Parking Lever	1
24	Parking Lever	1
25	Cotter Pin 2x12	1
26	Rotating Shaft	1
27	Operation Frame	1
28	Bolt M6x50	2
29	Ball Valve	1
30	Valve Bracket	1
31	Valve Lever Connecting Sleeve	4
32	Nut M8	4
33	Valve Plate	1
34	Multi-way Valve 1	1
35	Bolt M8x45	4

No.	Description	Q'ty
36	Multi-way Valve 2	1
37	Bolt M8x65	2
38	Manual Storage Cylinder	1
39	Rear Guard	1
40	Nut M12	14
41	Flat Washer 12	16
42	Bush	2
43	Bolt M12x35	2
44	Rotating Pin	1
45	Reset Spring	1
46	Pull Ring	1
47	Driving Platform	1
48	Bolt M8x25	2
49	Large Washer	2
50	Driving Wheel	2
51	Bolt M12x50	8
52	Motor Guard	1
53	Parking Shaft 1	2
54	Spring	2
55	Circlip 14	2
56	Chassis	1
57	Parking Connecting Part	1
58	Washer 6	2
59	Nut M10	12
60	Flat Washer 10	12
61	Bolt M10x30	8
62	Rubber Mat	2
63	Bearing 6204-2RS	12
64	Oil Seal FB 25x47x7	6
65	Track Roller	6
66	Wide Washer 10	8
67	Wing Washer	6
68	Stud Bolt	4
69	Bolt M10x25	4
70	Axle Cap	2



No.	Description	Q'ty
71	Left Guard Plate	1
72	Right Guard Plate	1
73	Elastic Cushion	2
74	R-Clip	2
75	Pivot Shaft	1
76	Bolt M16x70	2
77	Nut M16	2
78	Spring Locating Bush	2
79	Spring 40x80x6	2
80	Bearing 61905-2RS	4
81	Circlip 42	4
82	φ 42 Axle End Cap	2
83	Washer 10	2
84	Guiding Wheel	2
85	Oil Seal FB 30x42x7	2
86	Guide Wheel Axle	1
87	Rear Cover	1
88	Bolt M8x110	2
89	Rubber Track (37)	2
90	Gasoline Engine	1
91	Bolt M8x35	4
92	Wide Washer 8	4
93	Rubber Damper	4
94	Screw M8x10	2
95	Coupler Gasket	1
96	Key B7x22	1
97	Spacer Bush	1
98	Coupler ( R )	1
99	Coupler ( L )	1
100	Connecting Flange	1
101	Bolt M8x25	4
102	Elbow Connector For Pump Outlet	2
103	Gear Pump	1
104	Screw M8x180	2
105	Straight Connector for Pump Inlet	1
106	Elbow Connector For Pump Inlet	1
107	Pump Outlet Hose ( Short)	1

No.	Description	Q'ty
108	Pump Outlet Hose ( Long)	1
109	Oil Suction Hose (Long)	1
110	Oil Suction Hose ( Short)	1
111	Oil Return Hose (Short)	1
112	Oil Return Hose (Long)	1
113	T-connector M26x1.5	1
114	Oil Return Connector	1
115	Oil Dipstick	1
116	Combined Sealing Washer 27	1
117	Flange Bolt M6x16	8
118	Tank Cover	1
119	Paper Gasket	1
120	Union	2
121	Oil Filter Connector	2
122	Oil Filter M27x2	2
123	Bolt M8x16	4
124	Oil Tank	1
125	Screwed Plug	1
126	Oil Return Pipe 1 for Tipping Bucket	1
127	Oil Return Pipe 1 for Shovel	2
128	90° Elbow Connector	4
129	Throttle Valve Connector	4
130	One-way Throttle Valve	2
131	Oil Inlet Pipe for Tipping Bucket	1
132	T-connector M18x1.5	2
133	Oil Return Pipe 2 for Shovel	1
134	Hose Clamp	8
135	Oil Inlet Hose For Tipping Cylinder	1
136	Oil Return Pipe 2 for Tipping Bucket	1
137	Elbow Connector	2
138	Straight Connector	2
139	Cylinder Connector	6
140	Oil Outlet Hose For Tipping Cylinder	1
141	Pin B16x100	1
142	R- Clip	7
143	Tipping Cylinder	1
144	Pin B16x80	4



No.	Description	Q'ty
145	Shovel Cylinder	2
146	Pin B16x60	2
147	One-way Valve	1
148	Left Connecting Rod	1
149	Connecting Hose for Shovel	1
150	T-connector M14x1.5	2
151	Oil Inlet Pipe 2 for Ball Valve	1
152	Oil Nipple M6	6
153	Multi-way Valve Connector	14
154	Oil Inlet Hose for Shovel	1
155	Oil outlet Hose for Shovel	1
156	Cotter Pin 4x35	2
157	Right Connecting Rod	1
158	Bolt M12x40	4
159	Motor Connector	5
160	Oil Inlet Pipe 1 for Shovel	1
161	Self- Loading Shovel	1
162	Motor Hose 4	1
163	Motor Hose 3	1
164	Motor Hose 2	1
165	Motor Hose 1	1
166	Oil Inlet Pipe for Ball Valve	1
167	Connecting Hose	1
168	Wing Washer 8	2
169	Hydraulic Motor	2
170	Pin B16x140	1
171	Connecting Hose 2 for Shovel	1
172	Hopper	1
173	Oil Return Pipe for Ball Valve	1

**GB**



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*Operator's manual*

## **Trade Peak Tracked Mini Dumper**

### **QTP500J**








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**ABBREVIATIONS LIST**

Cap.	Chapter
Par.	Paragraph
All.	Enclosure
Mod.	Model
Rif.	Reference
D.M.	Machine Directive
Machine	Set of parts or components of which at least one mobile, interconnected, with appropriate actuators, control and power circuits, joined together for a very specific application in particular for the processing, treatment, handling and packaging material (D.M. 98/37/CEE - 98/79/CEE)
Dangerous zone	Any zone to the inside e/o in proximity of a machine in which the presence of an exposed person constitutes a risk for the safety and the health of said person. (D.M. 98/37/CEE - 98/79/CEE)
Exposed person	Person that are entirely found or partly in a dangerous zone. (D.M. 98/37/CEE - 98/79/CEE)
Operator	Person or people entrusted of to install, to make to work, to regulate, to perform the maintenance, to clean, to mend and to transport a car. (D.M. 98/37/CEE - 98/79/CEE)
Safety	Is in which the risk of damage to the people or to the things is limited to an acceptable level (EN 8402 and 94)
Risk	Combination of probability and gravity of possible lesions or damages to the health in a dangerous situation (EN 292/1)
Danger	Source of possible lesions or damages to the health (EN 292/1)

Evaluation of the risk	Global evaluation of the probability and the gravity of possible lesions or damages to the health in a dangerous situation to choose the suitable safety measures (EN 292/1).
Fixed protection	Shelter maintained in position, or in permanent way or through elements of fixing (EN 292/1)
Harmonized norms	European norms submitted by her/it Us and recalled by directives.
Preventive maintenance (ordinary)	Maintenance performed to predetermined intervals or in accord to prescribed criterions and time to reduce the probability of breakdown or the degradation of the operation of an entity (CEI 56/50 and 97).
Maintenance corrective(extraordinaire.)	Maintenance performed following the survey of a damage and time to bring an entity in the state in which it can perform an in demand function (CEI 56/50 and. 97).
	Attention: instructions and indications to meticulously be followed.



## 1. GENERAL INSTRUCTIONS



- Safety of employment of the machine is guaranteed only for the functions listed in these instructions of use.
- For operations of extraordinary maintenance and reparation you must use only original parts.  
All these operations must be performed Out of the machine, in a proper place, in plain and predisposed
- The whole personnel that can be involved in the use to different title, has to be educated for a correct use, so that to never jeopardize neither the proper one neither other people's safety.
- Needs that the operator reflects on the possible consequences before drawing near with the hands, particularly
- **DON'T MAKE PEOPLE CLOSE AROUND( DISTANCE 2 METERS).**
- **DON'T SUPPLY THE FUEL WHEN THE MACHINE IS ON**
- The machine has a considerable metallic mass don't use when it storms **THUNDER IS CAUSE OF DEATH!**
- Follow particularly the safety indications:
- Use the individual protections as gloves, bonnets masks during the use, for assembling and maintenance.
- Setting particular attention to the parts in movement..
- Follow the safety indications brought in the chapter Indications For The Safety.

## 2. CHARACTERISTICS

### 2.1. Description of the machine

The Mini dumper is built for the construction. Up to the machine there is the multifunction vessel :



From the factory it goes out in the proper order for to transport material loose as: soil, manure, leaves, sand, grain and similar. Operating the special lever is gotten the inclination of the vessel , the lever of closing counter in low to the left some large case automatically opens, getting I unload him/it some transported material.



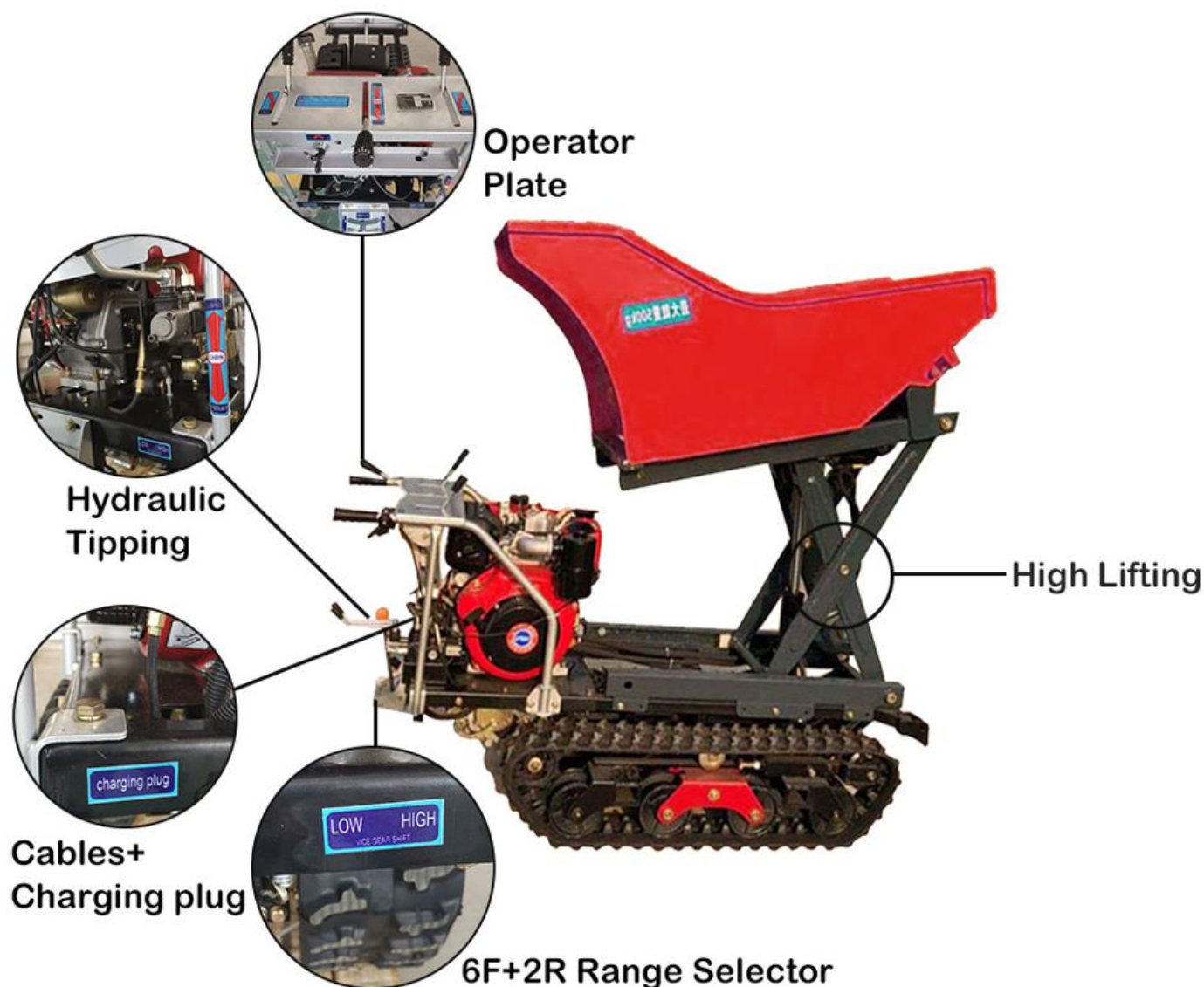
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**2.2 Technical characteristics and drawing**

Technical data MACHINE :

Description	Measure	Gasoline Version
Weight	Kg	345
Payload	Kg	350/500
Engine	HUASHENG	9.0HP
Max speed	Km/h	2,88
Grade ability	% ("incl.)	36% (20°)

Description	Measure	Diesel Version
Weight	Kg	361
Payload	Kg	350/500
Engine	HUASHENG	11HP
Max speed	Km/h	2,88
Grade ability	% ("incl.)	36% (20°)



**3. SAFETY PRESCRIPTION Limits of use, space**



The machine has been designed and built for being used in external environment or in closed environments but airily. The machine is not fit for the use in underground places, environments with





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presence of gas , dusts ,explosive.

The machine has been designed and built for transport of loose materials what: soil, manure, leaves, sand, stones, gravel, grain and similar, firewood, flowerpots, baskets, cassettes for fruit, vegetables and other products of the agriculture and floriculture. The mini-dumper are studied, designed, to transport the material solos above described. Be careful driving in reverse.

Always check the ground so that to avoid unexpected obstacles. Operate only in safety condition.

Don't bring changes to improve the machine performances .

Not reverse the sense of march, if the machine is in movement you can be cause of accidents.

Driven always to moderate speed, before reversing the march stop you, check that there are no obstacles and you leave again.

You attentively check the ground on which work: holes, terrestrial yielding, hidden stones, cables voters, pipelines of the gas or the water etc. can represent a danger To always operate to checked speed; in case of steps to be overcome, you always insert some additional thickness between a stair and the other because they limit the bumps.

You never make descents to the limit of inclination in reverse.

If the machine is used with terrestrial inclination, assure you that the tracks are oriented in the sense of the inclination and not transversally.

Working on a soft ground, uneven or not leveled it is necessary to set greater attention to avoid the turnover.

Never overload the machine ! You could capsize and provoke serious accidents.

Before climbing with the MACHINE on ramps, check that these are sure of the suitable course, that is not slippery.

To avoid the superior inclinations to 20°.

Follow the instructions of the manual for a correctly park of the machine.

The gasoline is inflammable. You always extinguish the machine before the restocking and allow to cool.

Not use the hands for the control of the small oil leakage , neither to hold the to use a cardboard to check on this I complete the possible presence of hydraulic liquid.

Always remember that the oil is a special refusal and as such managed to terms of law .

If a particular situation brings you to use the machine on the border of a road or on a slant, worry to check you first the level of the ground and the equilibrium of the machine, to avoid a possible glide or a turnover.



**ATTENTION !!!!! . EVERY WRONG USE OF THE MACHINE OF THAT EXPECTATION IS DECLARED AT THE BUILDER IN THE MANUAL PRESENT IT IS CONSIDERED IMPROPER.**

### 3.1 Noise



In the underlying chart are brought::

- the level of noise issue of the mini-dumper. measured to the ear of the operator (LpA to 1 m in conformity to how much foreseen by the Directive 98/37/CEE)
- the level of noise issue in the environment (power LwA) measured following EN ISO 3744 (2000/14/CE)

Tracked mini-dumper	Motor	LpA (dB)	LwA (dB)
<b>Gasoline</b>	9.0hp	76 dB	93 dB
<b>Diesel</b>	11.0hp	79 dB	98 dB

Don't increase the time the level of noise it is necessary to meticulously respect the following rules:

- Clean , lubricate and to fatten up with the recommended frequency the organs of the machine.

Check that is not obstructed or damaged parts of the machine. The level of noise it is obligatory the use of devices of individual protection as bonnets, corks present quant'altro in commerce to protect the hearing. The values rated for the noise are levels of issues and not necessarily levels of sure job. While there is being a correlation between levels of issue and levels of exposure, this cannot reliably be used for determining if they were in demand or no further precautions. The factors that influence the reality level of exposure of the worker include the duration of the exposure. Her characteristics of the environment, other sources of issue for ex. the number of the cars and other adjacent workmanships. Also the levels of exposure permissions can vary from country. However these information put in degree the user of the machine to make a best evaluation of the dangers and the risks.

### 3.2 Safety normative conformity

HUKI 40 H is projected and built in conformity to the following norms:

**"Direttiva machine" 98/37/CEE - and relative changes and to the legislation that transposes;**

- **Direttiva 2000/14/CEE "environmental acoustic issue of the Mini-dumpers and equipment destined to work to the open one" and to the national legislation that transposes;**
- **" Procedures applied for the evaluations of conformity: check inside of the production with evaluation of the technical documentation and you check periodic, all.**



#### **4. NEW WORK SITE**



Before the mass in work of the machine, especially if it deals with the first starting or when this is installed in a new place of employment and' necessary to effect the following verifications and to keep in mind of the following technical instructions and the following suggestions:

Verify the level of the oil; - to Verify the state of use of the tracks; - To verify the areas of respect and the work areas;- Verify that the protections have correctly fixed;

Verify that the indications and the instructions are present on the machine and easily visible.

Effect a general test of all the commands of the car, to empty to verify its correctness

#### 4.7 Training



Before the use of the machine it is necessary to attentively read this manual of instructions learning the formalities and the procedures to operate in safety.

## 5 REGULATIONS

### 5.1 Regulation machine

To the first use in the yard, the car doesn't need regulations.

### 5.2 Regulation rubber tracks

Regular often the tension of the tracks.

- An insufficient tension can make to go out the tracks of its own center and it quickly consumes the wheels engines and the metallic inserts of the track.
- An excessive tension increases the resistant strength to the transfer and this can cause both an excessive wearing out of the bottom wagon is an extra tension of the track with possible premature breakups.

To prevent possible damages to the tracks in rubber would need to avoid to work the more possible in the following situations:

Cave or pointed rocks. - Bars or metallic wrecks.

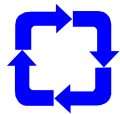
Edges or edges of metallic objects or cement. - Fire or other sources of heat.

To eliminate the with a rag: gas-oil, hydraulic or fat oil from the surface of the track.

If the machine is not used for long time (3 months or more) to store the tracks avoiding the direct light of the sun and the rain.

Because of the characteristics of the rubber to use the car with inclusive temperatures among -25°C and +55°C.

## 6.USE



### 6.1 Operations and commands

#### 6.1.1 Move of the machine (Joy stick A, B)

##### Move rectilinear

Push the two levers and the machine start moving

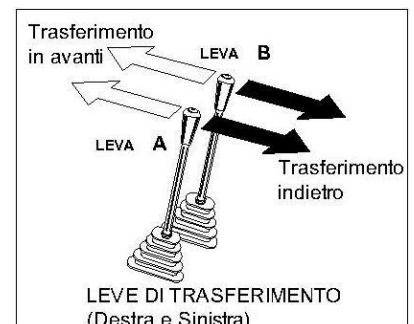
##### Stop

Leave the levers and machine stopped.

##### Turning off

Throw back the levers.. Machine move to the back part ( operator side).

**Don't drive or move the transporter when is switch off.**



#### 6.1.1 Manoeuvres vessel (D)



##### Attention !!

When motor is switch off, the lever D t lowers under same weight.

##### Lift vessel:

Push the lever in ahead to capsize vessel

##### .Lower vessel:

Throw back the lever to bring the vessel in horizontal position..

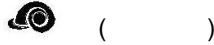






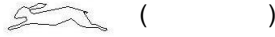
### 6.1.1 Speed Lever (E)

**Decelerate**

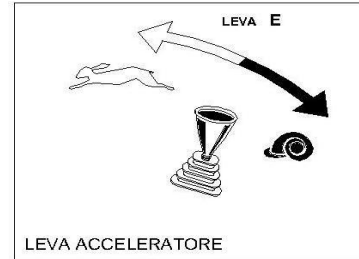


Push the lever in ahead to lower the turns of the motor.

**Acceleate**



Bring back the accelerator lever to increase the turn of the motor.



During the use of the machine follow the chapter **SAFETY LIST**.

## 7.1 Use of endothermic motor

### 7.1.1 Controls before starting

Verify the levels of oil motor and fuel..

For the methods of control , make reference to how much brought in the section "daily Controls" of this manual.

### 7.1.2 Starting

Effect the mass in motion of the motor reporting suggestion by the builder of the motor reading the special manual, of which the machine is equipped.

### 7.1.3 Turning off

- Rotate the Lower part motor Turns for some minutes. This allows the motor to gradually get cold before the turning off.
- Effect the turning off of the motor reporting suggestion by the builder of the motor reading the special manual, of which the machine is equipped.

## 7.2 Preheating of the machine

As for all the hydraulic systems, it is very important that the hydraulic oil is to thermal regime before beginning to work.

The necessary time to the preheating can usefully be employed for some simple operations of control of maintenance. Before effecting height manoeuvres load meticulously follow to the following indications:

- Leave that the motor slowly heats him to low regime of turns for 2-3 minutes.
- Operate the cylinder of lifting of the vessel to heat to allow the filling of the pipelinesi.

## 7.3 MACHINE TRANSFER

### 7.4.1 Rectilinear transfer

1. Move the lever of regulation of the number of turns of the motor in the desired position.
2. Control the lever:

#### Rectilinear transfer

Push the lever and the machine go straight on

- **STOP**

- Move back slowly both the levers up to the intermediary position to brake and to stop the machine

#### Transfer reverse

Pull the lever and the machine go back

### 7.4.2 Transfer control

1. Move the lever of regulation of the number of turns of the motor in the desired position.

Check the levers of right transfer and it damages as it follows.

## CURVILINEAR TRANSFER

Follow the underlying indications :



**Bend to the left** Push the right lever (1) ahead to rotate to the left moving, to throw to if the right lever to rotate to the left moving back

### Bends to the right

Push the left lever (2) ahead to rotate to the right moving himself/herself/itself in before, t the left lever to rotate to the right moving back.



### 3 Rotation on him same

#### Rotation to the left

Push in before the right lever (1) and contemporarily to throw back her it raises left. (2). This operation provokes to the left a fast rotation



#### Rotation to the right

Push in before the right lever (1) and contemporarily to throw back her it raises left. (2). This operation provokes to the left a fast rotation



### 7.4.3 INSTRUCTIONS FOR MOVES ON THE GROUND IN INCLINATION

Lower the regime of turns of the motor when you maneuver in narrow spaces or climbing over a ditch. On a ground in inclination to possibly move himself/herself/themselves with the tracks prepared in the sense of the inclination and not transversally. Not on the wrong side goes never to a slant. You avoid to change the sense of direction on the slant, this you/he/she could cause the turnover or side skid of the machine.

Attention to the strong inclinations, the builder of the endothermic motor has inserted an electric sensor that spenge the motor so that to avoid lack of lubrication, caused by the excessive inclination (max 25°)

#### 7.4 General Instructions

##### • Use where the devices of individual protection in demand

- Is forbidden to transport people.
- Don't put in the large case of the so voluminous loads to be able to hinder the view from the place of guide.
- Don't circulate with the lifted large case.
- Don't insist on the joy sticks when the large case is aloft to end run or in low.
- Don't brake or to brusquely steer to high speed .
- Don't bear the intervention of bystanders in the ray of action of the machine
- At the end of every cycle of job, to worry himself/herself/themselves that the inside of the large case is clean. To lift the alone large case on solid or level ground.
- Maintain on the strong inclinations, the turned loaded large case always awry.

Every time that he abandons the mini-dumper , to leave him/it in safety, or rather with lowered large case, out motor and I brake mechanic of inserted parking.

#### 7.5 In action on the place of job

- Worry during every manoeuvre not to put to risk of it the proper of it other people's safety.
- Avoid every abrupt manoeuvre, particularly on uneven and slippery runs.
- Avoid the manoeuvres in descent with motor to tall regime of turns.
- Avoid to insist when the large case is aloft to end run or in low.
- Lift the alone large case when the machine is on terrestrial sure and level.
- Always avoid to unload with side inclinations, but to line up the machine in direction of the inclination.
- Progress with prudence in proximity of ditches, excavations, terrestrial yielding and similar.
- Verify every new run and to watch out for the points covered by grass, leaves or other.
- Reduce the speed and load on the most binding runs.

Progress with the turned large case awry when, to load, strong slopes and descents are faced.

#### 7.5.1 As to stop the machine

You softly leave the levers of transfer and stopped you. The motor must be allows to turn to empty slowly for about 2 minutes before switch off.

#### 7.5.2 As to leave the machine

You park the machine in a plain zone, don't leave never her in descent or in the dangerous zones. The machine is equipped of brake of manual parking, that you will have to insert for having the certainty that the machine doesn't stir.



**7.6 Lifting of the machine** The missed respect of the following rules can provoke serious damages, accidents or death.

Not you ever haul the mini-dumper. You use fit means for the transport. You use cables and appropriate tools for the lifting. The cables of lifting have to have an enough length to avoid the contact with the machine. To use organs of lifting suits for to bear the weight of the machine. Do never lift the machine with personal on board. To use cartellonistica and others you signal to delimit the zone of load. To always use cables and other devices with superior loads of breakup to 4T.

### **7.7.1 PROCEDURES OF LIFTING**

On the machine they are anticipated points of hookup but you/he/she can be lifted through muletto making to climb on her/it on a pallet.

1. Give a sure and strong pallet to sustain the weight of the conveyer.
2. To position in a plain zone and with the empty large case and in lowered position to make to climb the machine and to center
3. Stop the motor.
4. Verify that there are not obstacles or people around the machine.
5. Lift the pallet with the machine from the ground of few centimeters and to verify that is well balanced.
6. Always transport however her to few earth centimeters, not to stir in reckless way and with the tall load from earth.

### **7.7.2 LOAD IS UNLOADED OF THE MACHINE**



To load and to unload the machine, if possible, on terrestrial leveled and stable. If unloaded with Ramps, to use a ramp of enough length, width and thickness to bear the weight of the machine and at the same time allows the passage of the operator.. To avoid glide verified that them no is slippery. Never change direction on the ramps of load, to maintain a rectilinear transfer.

### **7.7.3 LOAD OF THE MACHINE ON THE MEAN OF TRANSPORT**

To load and to unload the machine, if don't have a muletto to load her/it on a pallet, to Always use the ramps and to attentively follow the following procedure.

1. To stop the wheels of the truck before loading the machine.
2. To lower the banks of the truck.
3. To stop in safety the ramps to the truck. The ramps have to form with the Terrestrial an inferior angle to the 15°. The width of the ramps has to be Adjusted to the tracks and they have to foresee the passage of the operator.
4. to position the machine so that is found of forehead and with the parallel tracks to the ramps of load. Not do use anybody lever, excluded those of transfer, when her machine is found on the ramps of load.o maintain the center of gravity of the machine inside the area of the ramps of load.

### **7.7.4 BLOCK FOR THE TRANSPORT**

1. Switch off the motor  
o insert the mechanical brake of parking and to assure the machine to the structure of the truck in opportune way.

### **7.7 PARKING MACHINE**

At the end of every day of job it is necessary to follow the following procedures:

### **7.7.1 PARKING OF THE MACHINE**

To conduct the machine in a sure place with flat ground.

1. Reduce the speed rotation of the motor..
2. Always lower the large case not to leave ever lifted before switch off the motor
3. Insert the mechanical brake
4. Switch off the motor,.



### **7.7.2 Under conditions of cold**

*If are anticipated temperatures of strong cold both the tracks they have to be clean from the mud and from the dirt, the machine you/he/she must be parks on the wood tables.*

## **MAINTENANCE**

The machine doesn't ask for particular operations of maintenance. The technical solutions and the used components are such to be reduced the interventions of maintenance. However recommend him to perform a whole operations that you/they have the purpose to guarantee the safety, the reliability and the efficiency of the machine in the time.

### **During the maintenance**

- Intervenire sulla macchina solo dopo averla collocata/parcheggiata nella zona definita al punto 5.2
- In caso di problemi di tipo meccanico o elettrico, rivolgersi a un officina autorizzata.

To intervene only on the machine after having park in the zone defined to the point 5.2 In case of problems type mechanic or electric, to turn to an authorized shop. If the machine is off duty because of breakdowns, maintenance or reparation, to signal





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with special poster. To always " use the devices of individual protection during the reparation and substitution of the elements of the machine. Interventions on the motor must be perform only from specialized personnel and authorized. Don't introduce the hands, the arms or parts of the body in proximity of the zone of movimentazione and transmission. Use a suitable device to remove possible deposits (brushes, wood extremity etc.): not to use only never the hands!

A regular maintenance prolongs the life of the machine, it assures the best performances and it constitutes a safety important factor. **8.1 Ordinary and extraordinary maintenance**

- To " clean the filter of the air after the first 50 hours , in case of job in environments a lot of dust , cleaning daily.
- To " verify the presence of possible losses of hydraulic oil.
- To " verify the serraggio of the whole bulloneria, particularly to daily check the tension of the tracks.
- To " replace the oil motor and to perform the other operations foreseen by the manufacturer of the motor (to see book education of the motor furnished in enclosure to the manual present)

To " perform all the operations of maintenance daily, weekly, fortnightly and following following you list.

**8.2 MAINTENANCE : daily perform at the end of the job**

To eliminate every anomaly that was manifested.

- Clean the interior vessel
- To fatten up all the points of lubrication, with firm motor and large case in position of rest.
- To attentively verify the state of the tracks.
- To verify if during the job losses of oil or fuel are verified, it is enough to give a glance to the organs of the machine, not they owe us to be stains that you report some losses.

**8.3 MAINTENANCE : weekly**

- Clean the element air filter motor and lowered large case.

**8.4 MAINTENANCE :every 250 hours work**

- To " replace oil motor to see the instructions of the manufacturer of the motor.
- Clean the cartridge of the filter fuel.
- Replace the element I filter air.
- Replace the cartridge filter hydraulic oil..



**8.5 MAINTENANCE every 500 hours work**

- To " replace oil motor to see the instructions of the manufacturer.  
Replace hydraulic oil.

To always remember himself/herself/themselves that the oil is a special refusal and as such managed to terms of law. Alternate him proposed they are tied up to the type of environment in which the machine is used, very dusty environments they for example ask for more frequent interventions of cleaning of the filter air.

**8.6 CONTROLS AND MAINTENANCE IF NECESSARY**

**8.6.1 Control tension tracks**

1. Screw the die anteriorly set up to that the tension of the track has not returned to thatvolute.
2. T conform the tension on both the sides, to move the minidumper before and back and to verify again the uniformity of the tensionamento.
3. Verify at the end that both the tracks are tense equally, otherwise to repeat the operations.



**8.6.2 Rubber tracks maintenance**

Rubber tracks needs to be changed or revised as follow indications

1. **Height of the outrider** The rubber tracks can be used even if worn, however if



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excessively consumed, the tracks can skid and therefore to apply a greater application of power to the motors of traction. If the remained outrider is inferior or equal to 5 mm is advisable to replace the track with one new original.

**2. Exposure of the steel ropes** If the steel ropes of a track in rubber are exposed because of an excessive usury or for damages, to replace the track with one new original

**3. Cut of the steel ropes of the tracks in rubber.**

When a cut is noticed in the steel ropes to immediately replace the track. If the substitution is not effected keeping on working you/he/she can happen that the track breaks him completely to the sudden one and this can provoke accidents and the lock machine if don't have an exchange

**4. Cracks on the coverage in rubber**

If a crack of 30 mms is visualized or more than length and 8 mms or more than depth, to immediately mend the rubber. If the steel ropes appear even if the crack is smaller to immediately mend the track. Otherwise the water that enters the crack can rust the steel ropes or to provoke the breakup of the track.

**8.6.3 Formalities of control of the level hydraulic oil**

**Always clean the zone around the cork before removing him/it. Do never overcome the maximum level of hydraulic oil in the reservoir. Never use the machine when the level of the oil overcomes the maximum one (full) e/o when inferior to the least one (to add).**

1. to position the machine on plain ground with piston of the completely wide large case.
2. Verify that the level of the oil is correct.
3. If necessary add oil
4. Clean and to put again the cork loaded oil B. Per to bring in pressure the reservoir to make reference to the section "substitution hydraulic oil" of this manual cap 8.7.10.

**8.6.4 FILLING RESERVOIR FUEL**

To add the fuel, spengere the motor, to remove the cork set above the reservoir of the gasoline pointed out with special label to proceed to the addition of the necessary fuel using the funnel in endowment. After the restocking to make sure himself/herself/themselves to have closed again well the cork before putting again in motion.  
Attention!! to Use only gasoline without lead.



**8.6.5 Controls and maintenance every 50 hours**

**eaning element filter air. To perform the maintenance of the filter of the motor air extinguished for avoiding damages to the same. Don't clean the elements filter with hits or bumps (not to beat him/it). not to use elements filter with damaged parts to prevent damages to the motor. When the compressed air is used for the cleaning of the elements filtranti to wear protections for the face and respiraton, gloves and fit garments for such operations.**

**For the operations of cleaning of the element filter of the air to make reference to the manual of instructions of the motor. Note:** *Filter can be clean for 5 time, then you have to change.*

**8.6.6 Controls and maintenance every 50 hours** Substitution oil motor **Oil or warm parts can cause accidents. Don't bring oil or warm parts to contact with the skin.** To avoid problems with the motor to never overcome the maximum level of lubricating oil.

**An excess of oil of the motor can provoke the breakup of it.**

**Never turn on the motor when the level of the oil overcomes the maximum inferior e/o to the least one. For the operations of substitution of the oil motor to make reference to the manual of instructions of the motor. Attenzione !! Ricordarsi sempre che l'olio e i filtri usati sono rifiuti speciali e come tali devono essere gestiti a termini di legge.**

**8.6.7 Cleaning fuel**



**Attention!!**

**The lost fuel on warm surfaces can provoke a fire.**

**Also the fuel is a special refusal to follow to the norms vigenti for the disposal of the residual liquids. For the operations of cleaning of the cup fuel to make reference to the manual of instructions of the motor.**

**8.6.8 Substitution filter air**

For the operations of substitution element filtrante air to make reference to the manual of instructions of the motor.

**8.6.9 Substitution of the machintridge of the filter hydraulic plant**

The filter is located under the flatmachine of load. lift the flatcar and to extinguish the motor To loosen the cork loaded oil (1) for depressurizzare the circuit

To clean the zone to maintain the dirt to the outside of the body of the filter (2).

4. Position under a container suitable to the filter to pick up the possible spillages of oil that can be happened during the operations of substitution of thetridge filtrante. Note: always follow to the norms vigenti for a disposal of the exhausted oil and the used filters.

5. using a special key to unscrew the cartridge filter (3) turning counter clockwise in sense. To clean the body (2). **Note** The cartridge filter must have replaced. Riutilizzare is not possible one cartridge already used.



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6. to apply some oil on the ring of estate (4) 7. to insert the new cartridge (3), to manually press in position, here to tighten with the special key of a turn. 8. to start the motor and to check the level of the hydraulic oil  
9. you again pressurize the reservoir: After having completely wide the cylinder with the cork (1) open, to close again the cork of filling of the reservoir. 10. You check if there are losses from the cartridge (3)

### 8.6.10 Controls and maintenance every 500 hours



#### Substitution hydraulic oil

**You contact with oil or warm parts you/they can provoke burns.**

**To temperature of exercise, the reservoir of the oil is warm and could be under pressure. To remove the cork of load oil (1) slowly so that to make to go out the pressure of the inside of the reservoir.**

**To remove only the cork of load oil to out motor and when the same is enough cold to be able him to remove barehanded.**

1. Position the machine on plain ground with the cylinder of the completely wide large case.
2. Insert the sure one against the accidental lowering and to extinguish the motor.
3. Clean the zone to maintain the dirt to the outside of the reservoir.
4. Loosen the cork of load of the oil for depressurizzare the reservoir..

Remove the oil from the reservoir using a fit pump picking up him/it in a fit container to contain around 20Lt.

**Note: to digest oil and filters used according to the normative .**

5. To rinse the inside of the reservoir with clean oil..
6. To fill the reservoir with hydraulic oil. (For the choice of the proper oil to see chart paragraph 8.6).
7. to start the motor for a few minutes holding him/it to low regime of turns.
8. to operate the levers of control to do so that the whole hydraulic circuit beginfull..
9. to bring the machine under the initial conditions and to extinguish the motor.
10. To check the level of the hydraulicoil and to add of it if necessary to maintain the suitable level on the level.
11. To pressurize the reservoir hydraulic oil; with the cylinder of the completely wide flatcar to remove and to put again to his/her place the cork of load.

To support the large case to the loom and switch off the motor.

### 8.6.11 Parking for a lot f time

- To store the machine for long time to perform the following procedure:

To " clean the machine and to store to the covered one. If it is had to store to the outside, to set the machine on a plain ground and to cover her/it.

To " apply fat on the parts exposed of the cylinder (stem), to fatten up all the pivots and the mobile parts.



- " During the storage to turn on once the machine a month to maintain the film of oil of lubrication. **If the machine is inside a store. To prevent the rust is good norm to have local ventilated.**
- **At the end of the storage:**
- **Remove the fat from the stem of the cylinder**

- **Make sure himself/herself/themselves some level of filling of the reservoirs of the fuel and the lubrication.**

## 9. Problems, probable causes, formality of intervention

PROBLEMS	PROBABLE CAUSES	FORMALITY OF INTERVENTION
Hard joy stick or that doesn't automatically return back	<ul style="list-style-type: none"> <li>• Inefficient distributor.</li> </ul>	<ul style="list-style-type: none"> <li>• Ask for intervention assistance.</li> </ul>
impossible any movement or it misses power	<ul style="list-style-type: none"> <li>• Oil hydraulic insufficient.</li> <li>• Filter clogged oil.</li> <li>• Lowering of the power of the motor.</li> <li>• Breakdown of the pump or the joint.</li> <li>• Defective control valve.</li> </ul>	<ul style="list-style-type: none"> <li>• Fill up to level</li> <li>• Perform maintenance filter oil.</li> <li>• perform maintenance I filter air and to check the feeding.</li> <li>• Ask for intervention assistance.</li> <li>• Ask for intervention assistance..</li> <li>• Ask for intervention assistance..</li> </ul>
The traction doesn't work on one or both the sides.	<ul style="list-style-type: none"> <li>• An extraneous body as a stone, have been inserted.</li> <li>• Bad operation of the motor of traction.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove the inserted material.</li> <li>• Ask for intervention assistance..</li> </ul>





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Lack power of lifting flatcar	<ul style="list-style-type: none"> <li>Lack hydraulic oil.</li> <li>Damaged control valve..</li> <li>Lack to hydraulic cylinder.</li> </ul>	<ul style="list-style-type: none"> <li>Fill up to the level.Ask for intervention assistance..</li> <li>Ask for intervention assistance..</li> </ul>
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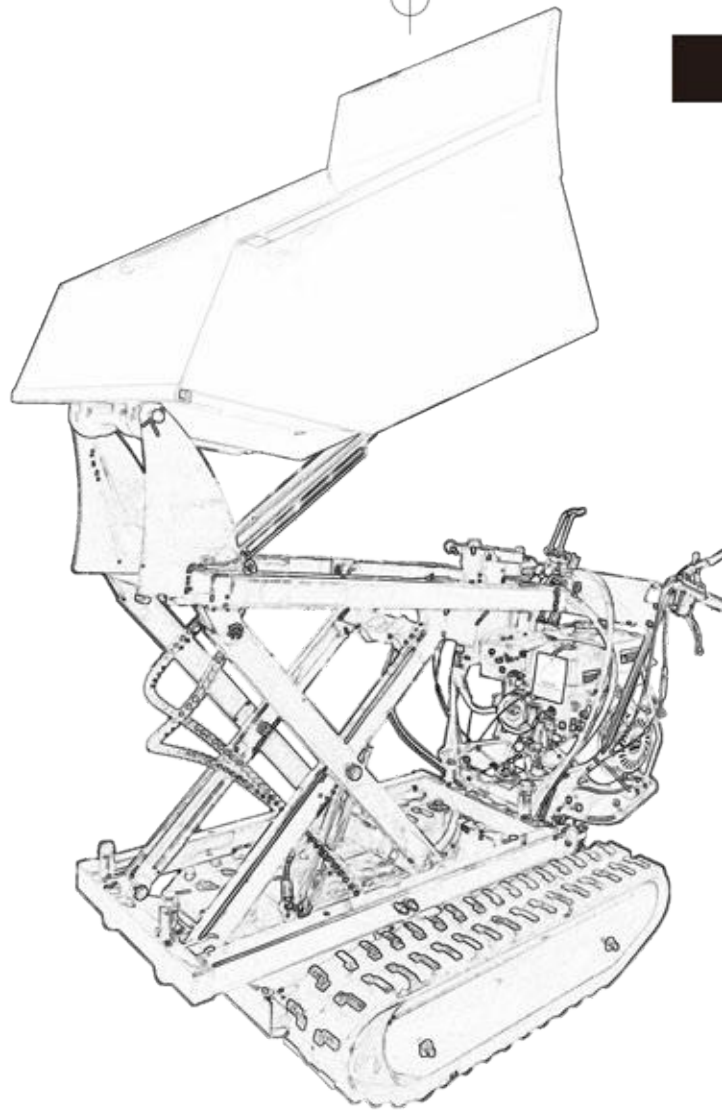
For other non suitable problem list, to contact the Technical support staff.  
**ATTENTION!!!! WE DISCLAIM EVERY RESPONSIBILITY IN THE CASE IN WHICH THE MACHINE SUBMITTED IN MAINTENANCE ACCORDING TO THE PROCEDURES IS BROUGHT INDICATIONS AND IS NOT USED PARTS AND ORIGINAL ACCESSORIES.**

## Wearing Parts List

Model	Item Number	Quantity
1、	Triangle rubber belt (B710)	2pcs
2、	Support wheel bearing (6204)	8pcs
3、	Tensioner	1pc
4、	Oil seal (30×62×10)	4pcs

## Attached List

No.	Item Number	Quantity
1、	Instruction book	1pc
2、	Certificate	1pc
3、	Warranty Paper	1pc
4、	Double-end Wrench (13×16)	1pc
5、	Double-end Wrench (16×18)	1pc
6、	Double-end Wrench (10×12)	1c



# Mini Tracked Dumper

## Operator's Manual

**MODEL NUMBER :** QTP500L

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**

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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

### Specifications

Item No.	QTP500L	
Engine	270cc, 9.0HP	
Transmission	3 Forward / 1 Reverse	
Load Capacity	500 kg	
Box Length	950 mm	
Box Width	680 mm	
Box Depth	465 mm	
Track Width	180 mm	
Pump Flow	10.8 L/min	
Sound power level	101 dB(A) k=2 dB(A)	
Sound pressure level	81.5 dB(A) k=2 dB(A)	
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>
	Right	11.3 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>
Weight	304 kg	



## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Do not touch parts that are hot from operation. Serious burns may result.



Keep your hands clear from all rotating parts.



Never start or run the engine inside a closed area.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Be aware, objects may be thrown while in use.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Always turn off the engine before starting maintenance.



Keep children and bystanders off and away.

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## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service

on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 12 mm below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.



## Specific Safety Rules

Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

**Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.**

Never operate the machine on slopes where angle is over 20°.

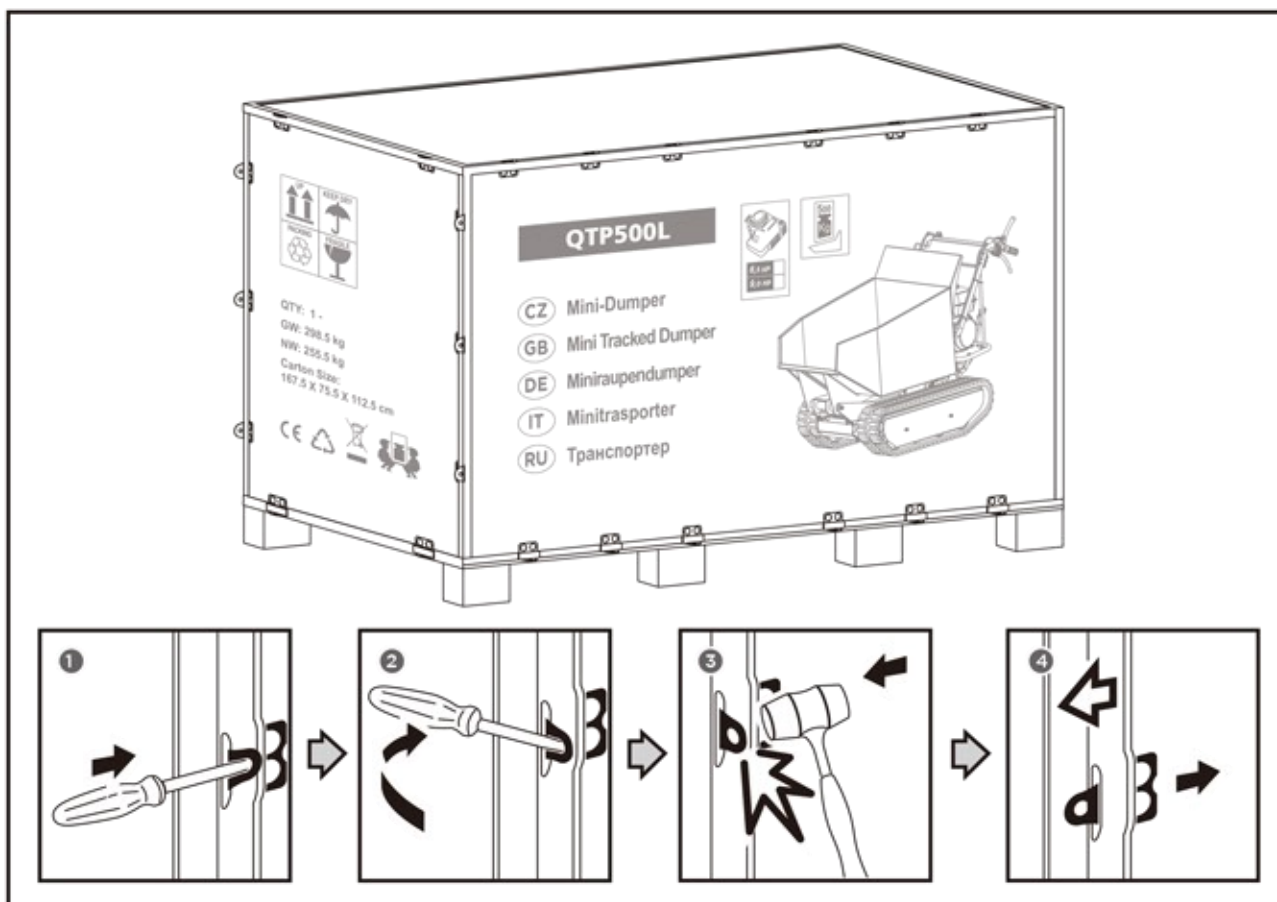
When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.

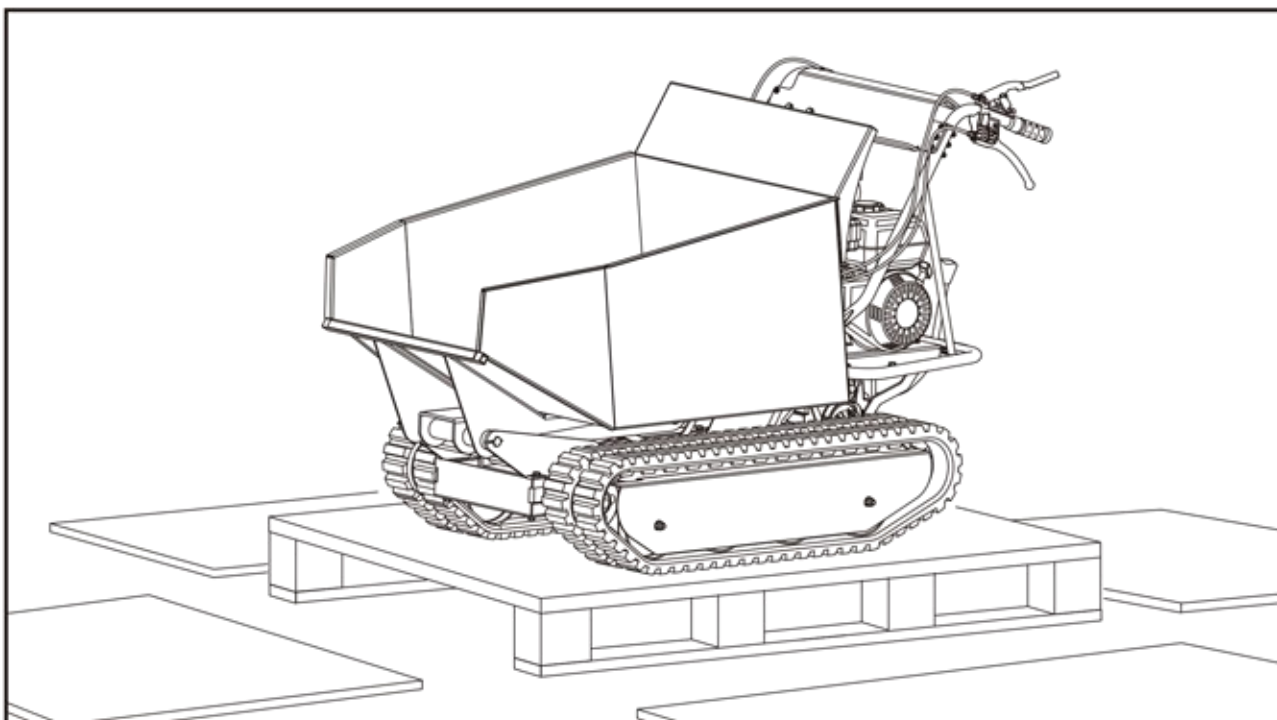
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.

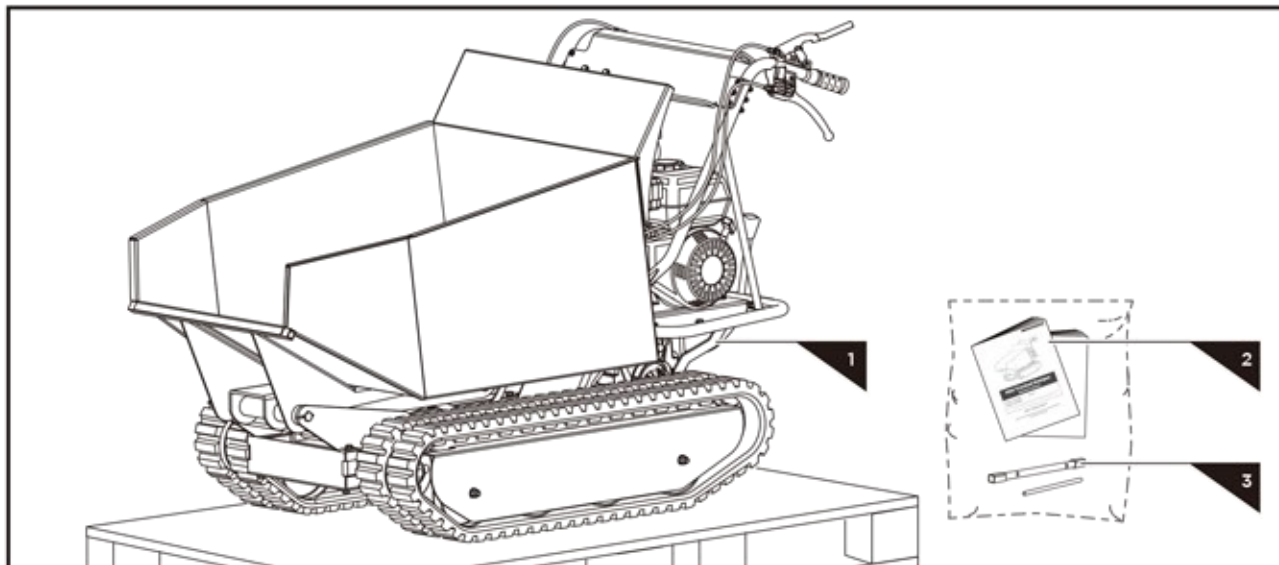


MINI TRACKED DUMPER

7

## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



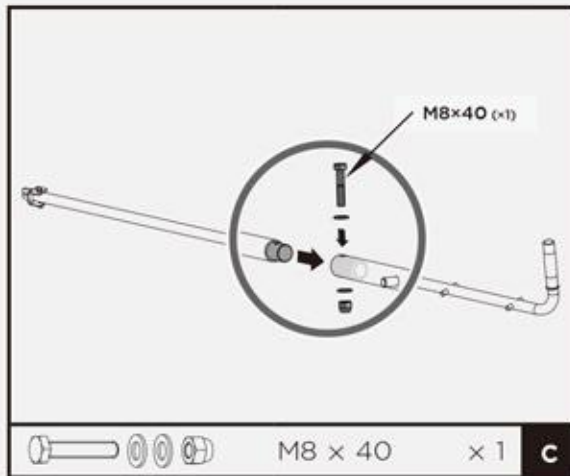
1. Machine

2. Operator's Manual & Engine Manual

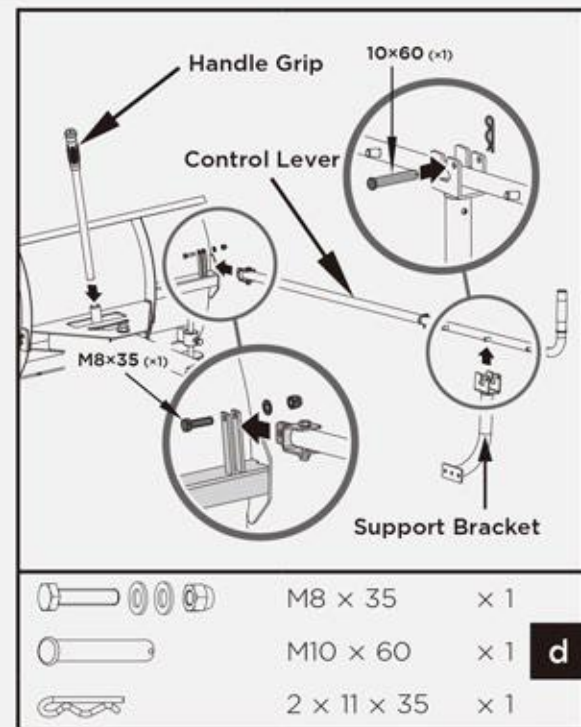
3. Tools for Spark Plug Assembly



3. Insert the shorter control lever into the longer lever. Align holes and fasten with M8x40 hex bolt, washers and nut.

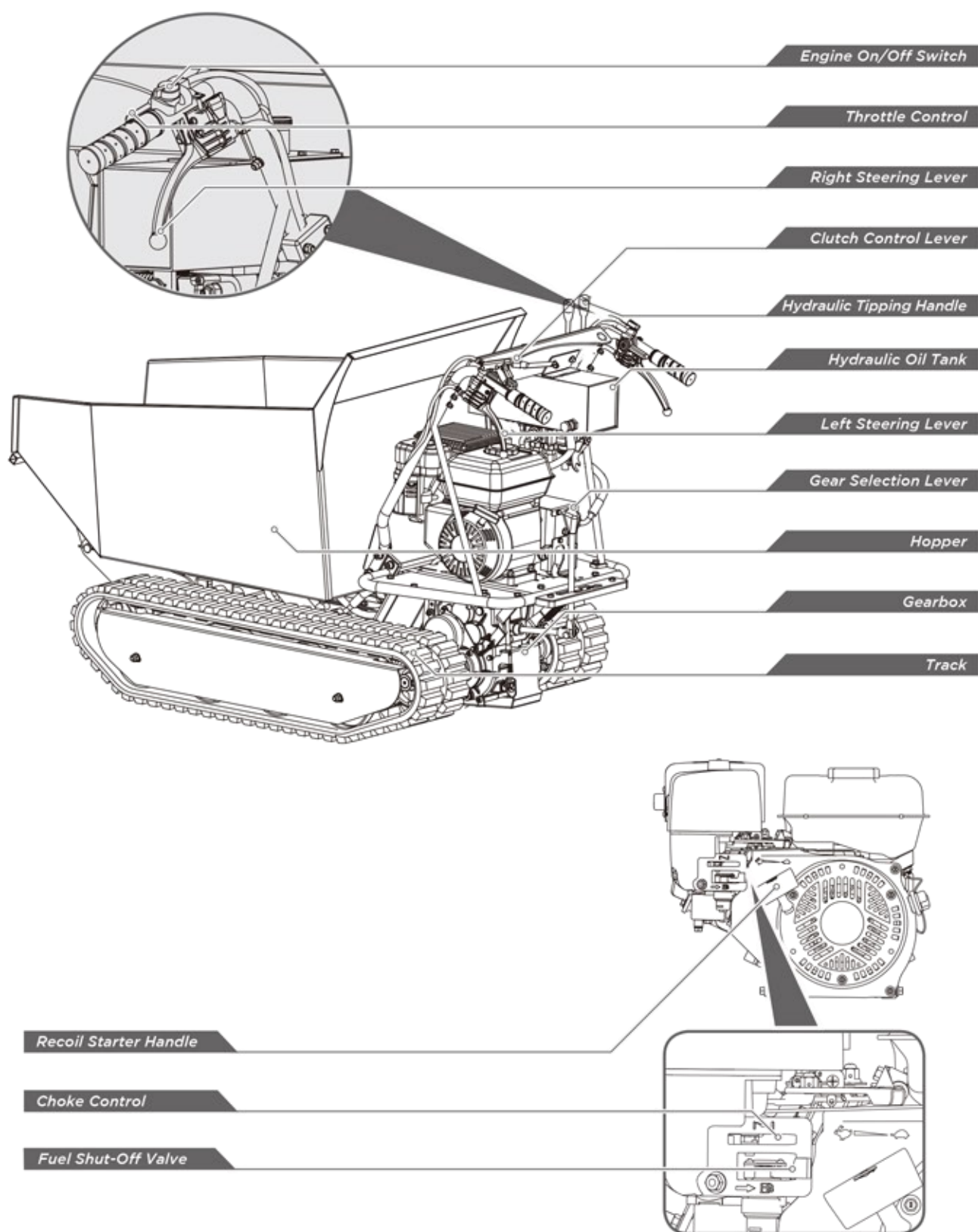


4. Attach control lever to the guide tube. Line up holes and fasten with M8x35 bolt, washers and nut.
5. Insert the handle grip into the holder.
6. Secure the support bracket into the control lever with pin 10x60 and bridge clip.



# KNOW YOUR MACHINE

## Features and Controls



### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the mini tracked dumper.**

Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the mini tracked dumper.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**



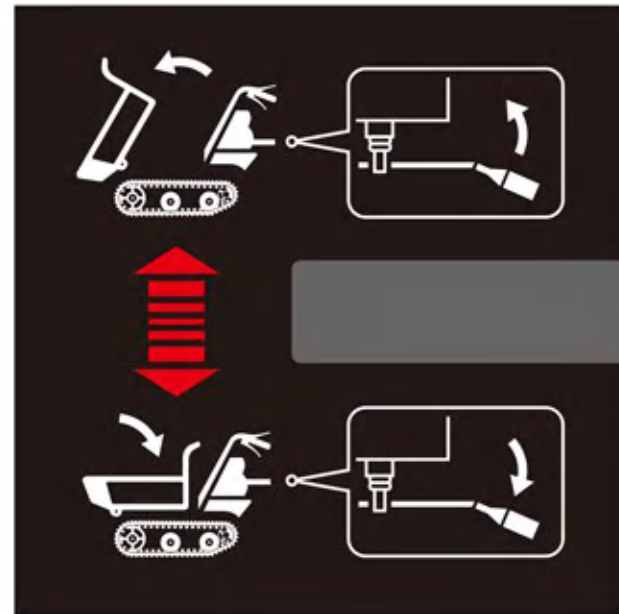
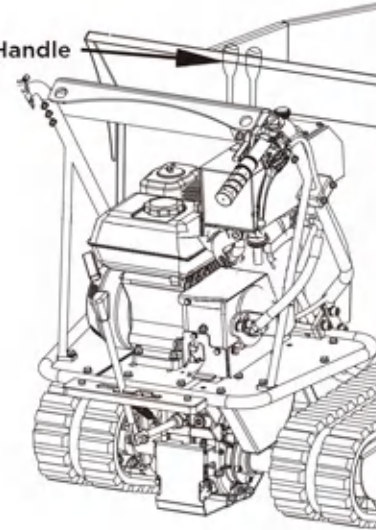
### Hydraulic Tipping Handle

Using your left hand, pull the locking plate up to release the tipping handle, and hold in position.

To raise the hopper, pull the tipping handle upwards until the hopper has reached the desired position. To stop raising the hopper, simply release the tipping handle and return the locking plate to its original position.

To lower the hopper, first pull the locking plate up with your left hand to release the tipping handle, and then pull the tipping handle down with the right hand. When the hopper is lowered to the original position, release the tipping handle back to its original position and lock securely with the locking plate.

Hydraulic Tipping Handle





### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The Recoil Starter Handle is used to start the engine.

### Fuel Shut-Off Valve

The fuel shut - off has two position.

CLOSED (🔒) - use this position to service, transport, or store the unit.

OPEN (🔓) - use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST 🏎️, SLOW 🐢, and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED 🚫 and CHOKE OPEN 📏 positions.



**Never use choke to stop engine.**

### Clutch Control Lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

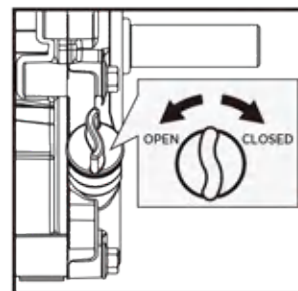
## Operation

### Add Oil To Engine



**No oil in the engine originally, but a bottle of engine oil is in scope of delivery. Don't start the engine before adding oil.**

1. Make sure the mini tracked dumper is on a flat, level surface.



2. Remove the oil fill cap/dipstick to add oil.

3. Using a funnel, add oil up to the **FULL** mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Oil To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

**IMPORTANT: DO NOT OVERFILL!**

*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

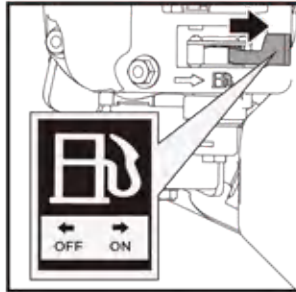
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

**Starting Engine**

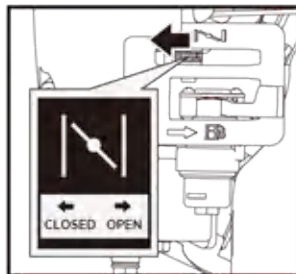
1. Move the engine switch to the ON position.



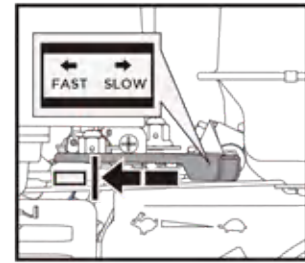
2. Open the fuel shut-off valve.



3. Move the choke lever to the CLOSED position.  
If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

**Operating**

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the mini tracked dumper will start moving.

The mini tracked dumper has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to turn. When the machine is fully loaded, more pressure is required.

The mini tracked dumper has a maximum capacity of 1100 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.



Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the mini tracked dumper unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

#### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

#### Stop Engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🛑) position.



***Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.***



***Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.***

## MAINTENANCE

Maintaining your mini tracked dumper will ensure long life to the machine and its components.

#### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the mini tracked dumper. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Replace the spark plug wire.



***Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.***

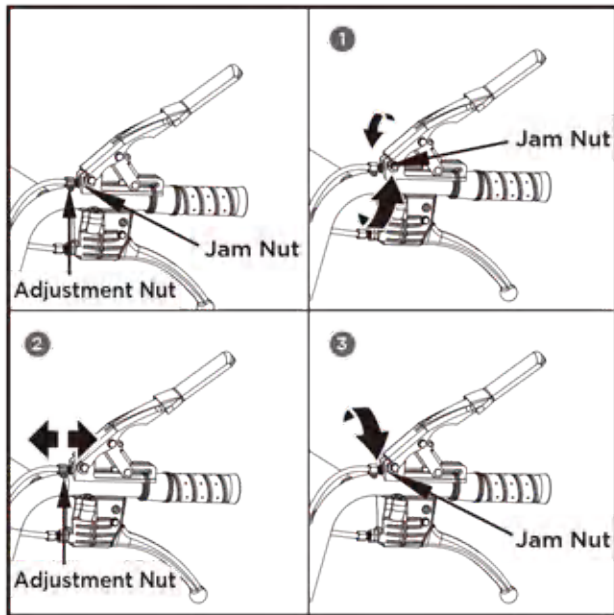
#### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.



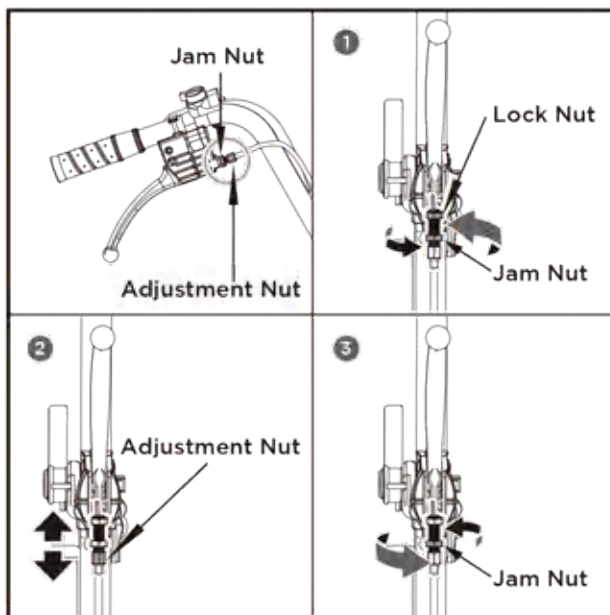
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

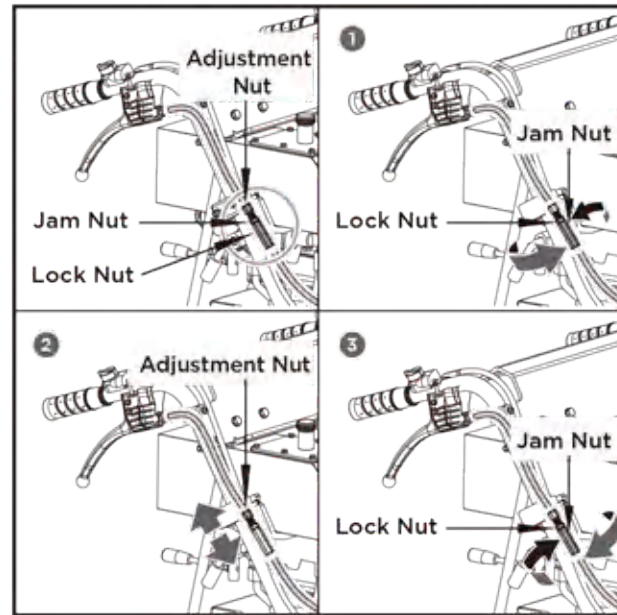
If steering becomes difficult to engage follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



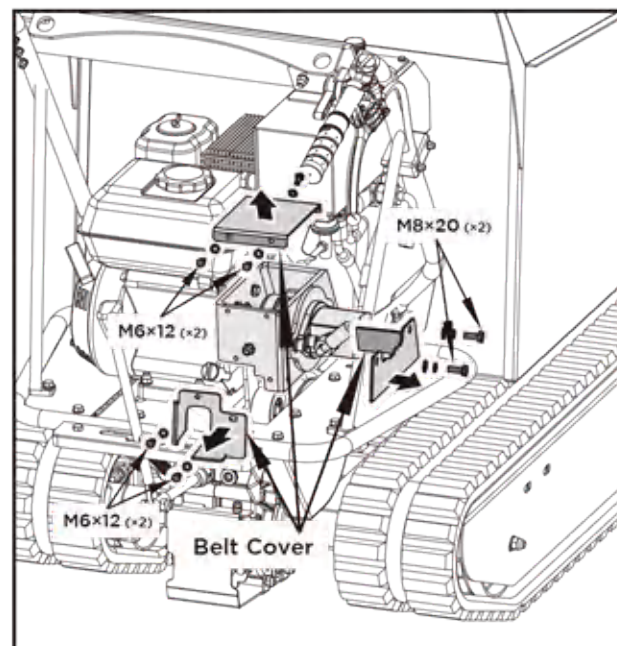
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.

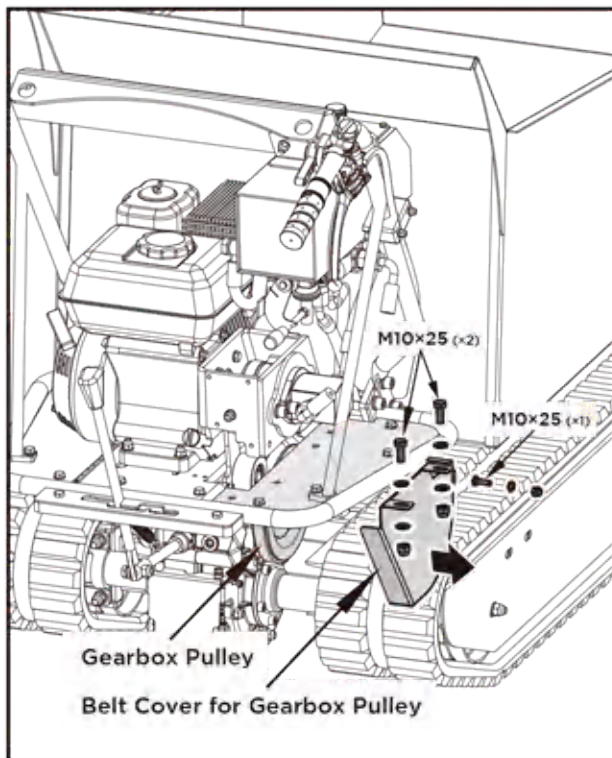


### Replacing Drive Belt

Remove three belt covers as shown.

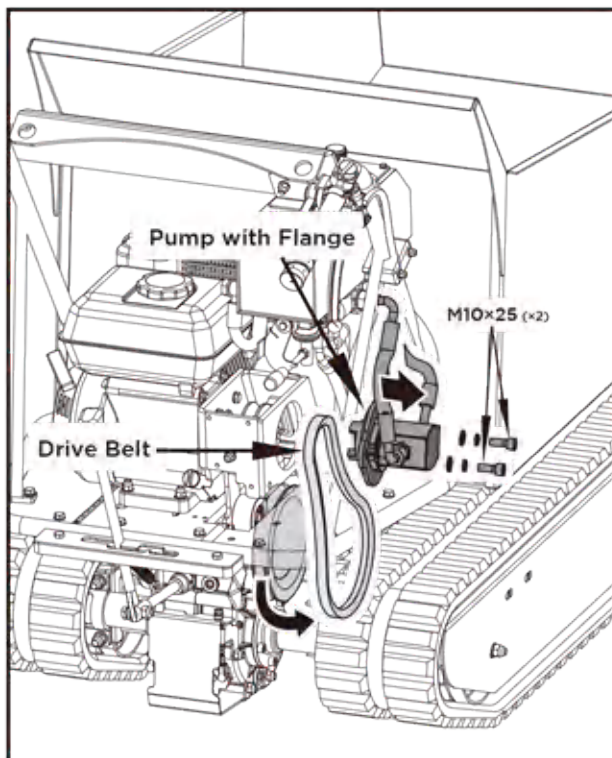


Remove the belt cover for gearbox pulley.



Disassemble the two M10x25 bolts, spring washers and flat washers, remove the pump with flange.

Turn the gearbox pulley and pull out the belt.



## Lubrication

### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.

### Gearbox Lubrication

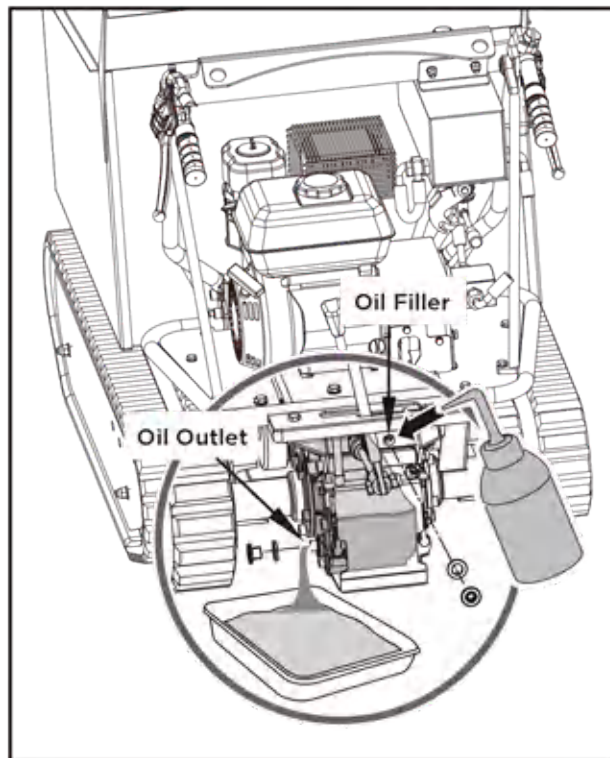
The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

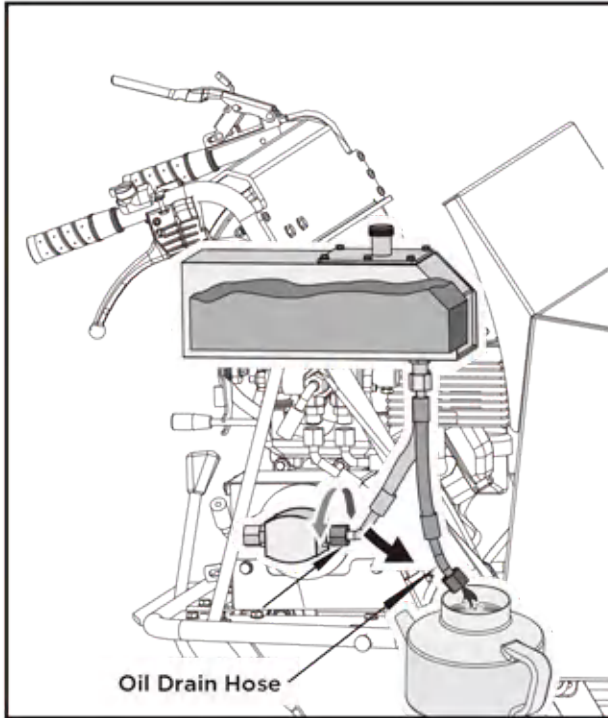
When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.



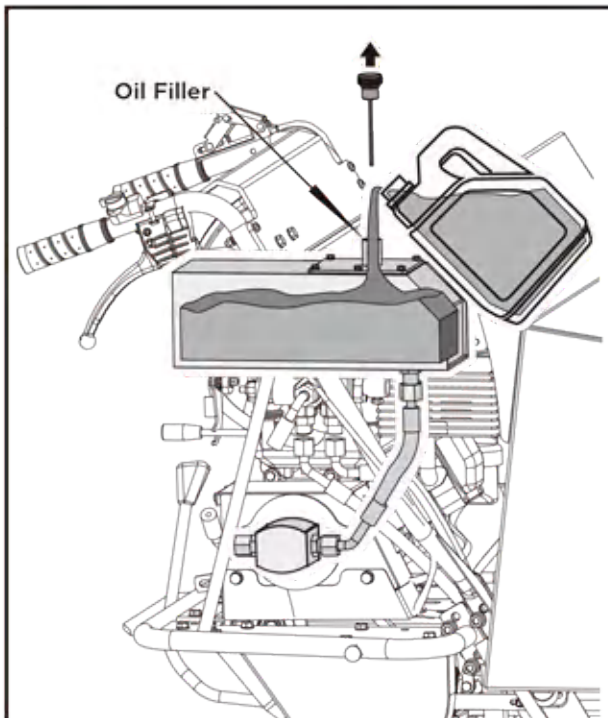


## Hydraulic Oil

Unscrew the locking nut to drain the oil into the pan.



Remove the oil dipstick and add the oil. The recommended hydraulic oil is 10W AW32, ASLE H-150, or ISO 32. Tank Capacity is 3L.

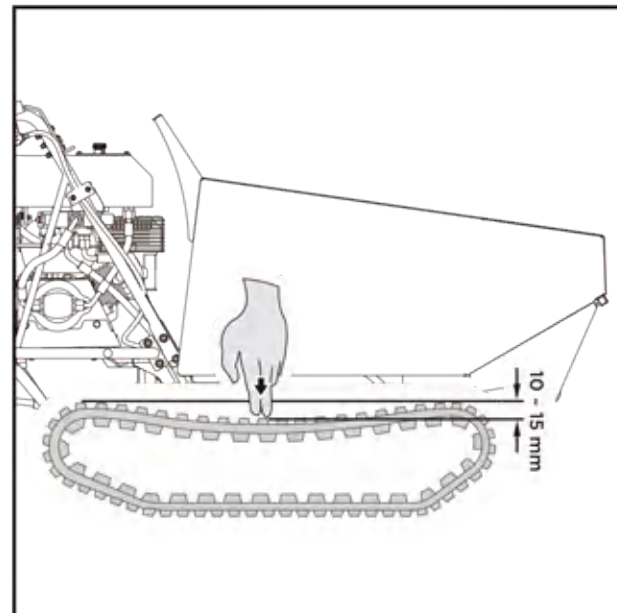


## Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

To check track tightness, proceed as follows.

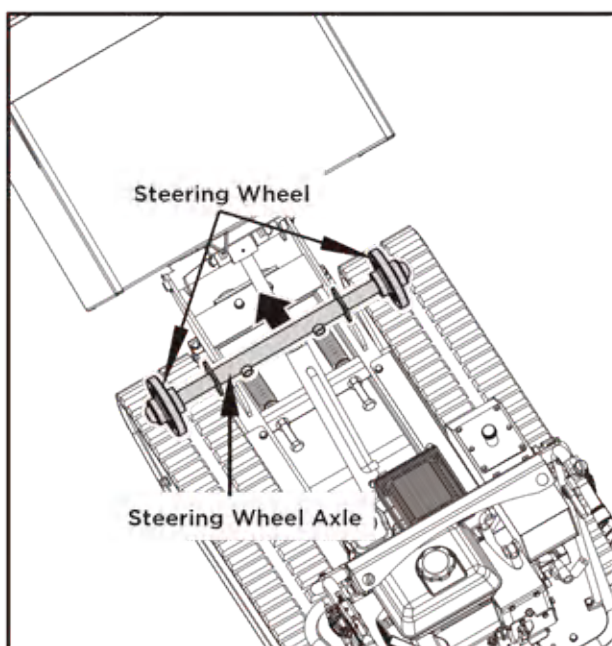
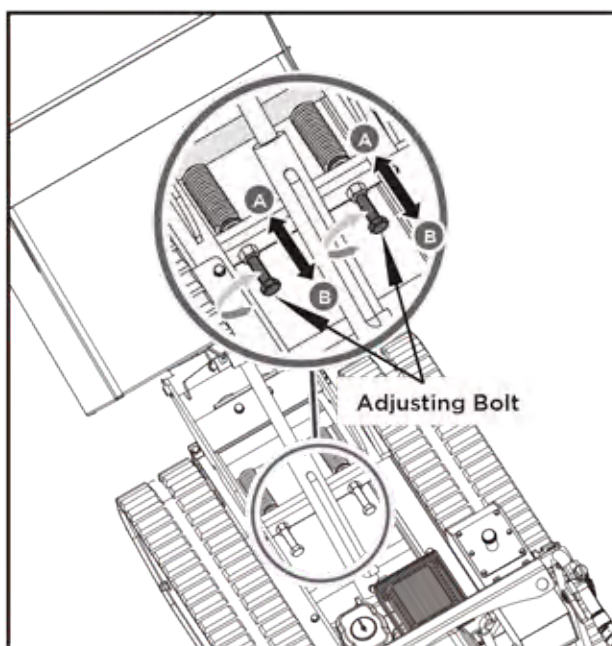
1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10 - 15 mm.



If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.





**Caution:** Do not over-tighten your track. The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

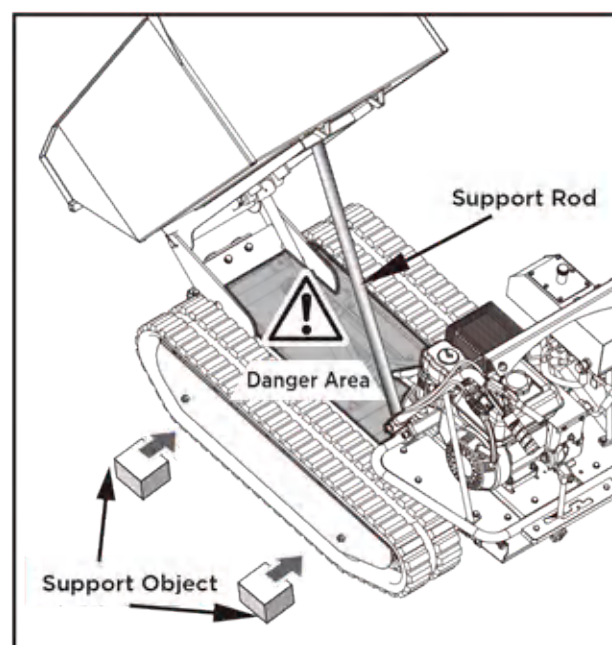


**If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.**

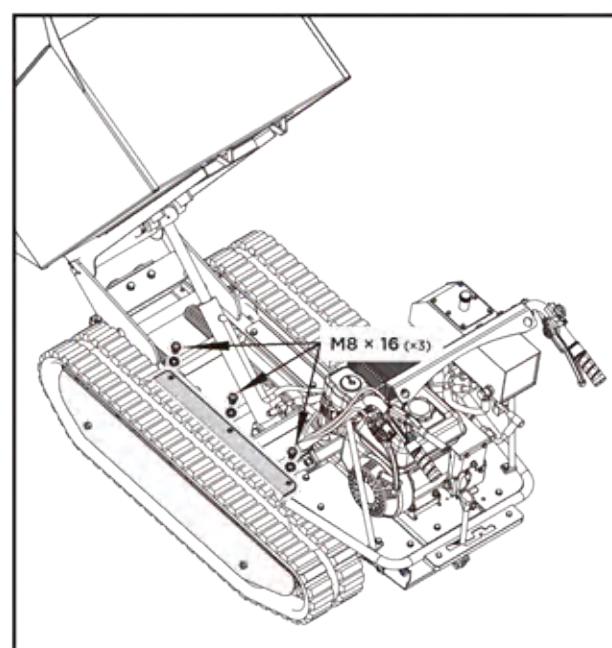
## Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

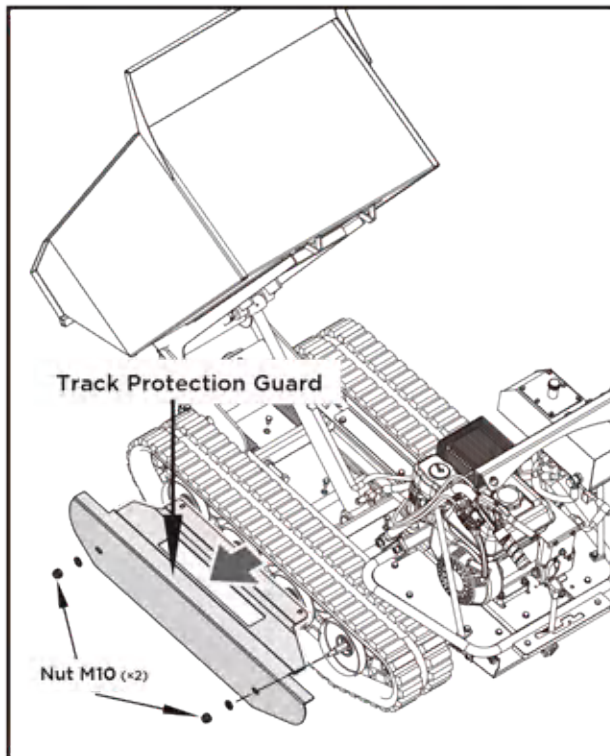
1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.



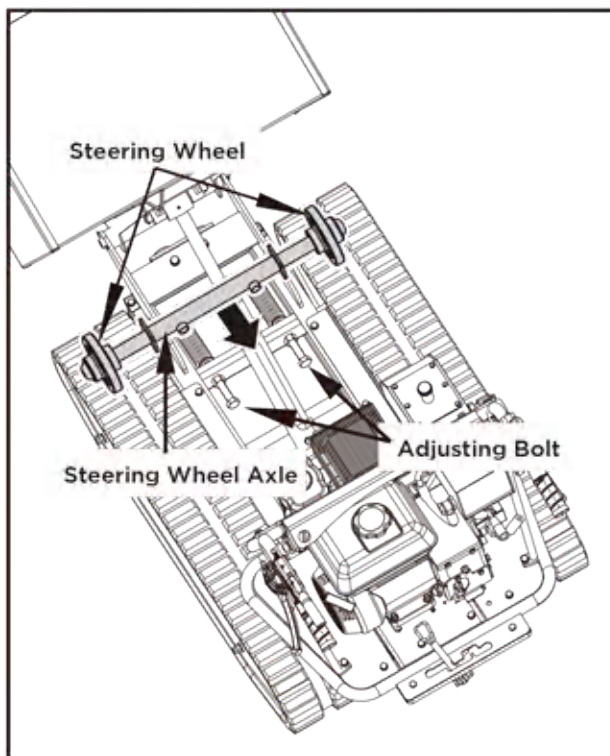
3. Remove the three M8x16 bolts and washers that fix the track protection guard.



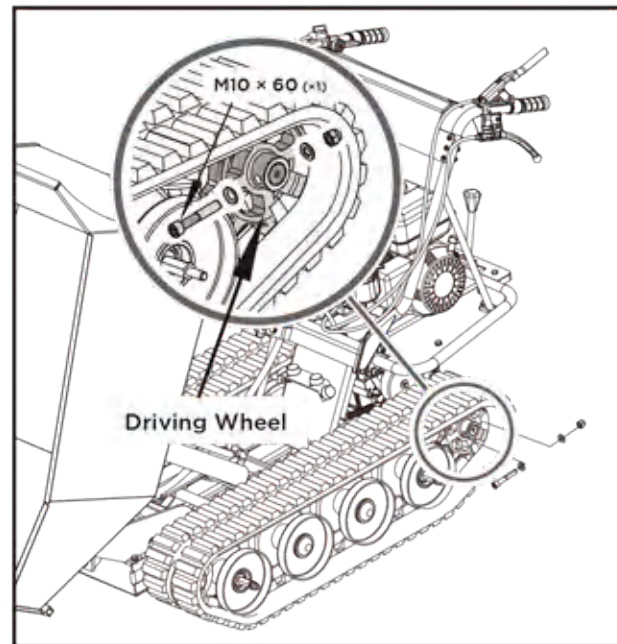
4. Remove the two M10 nuts and washers from the side of track protection guard.



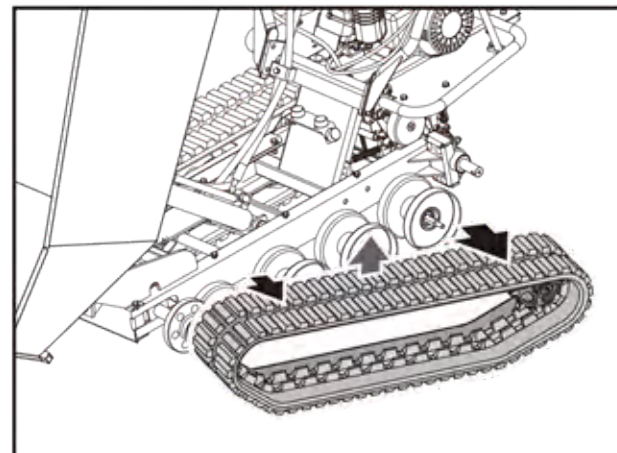
5. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.



6. Remove the M10x60 bolt, washers and nut from the driving wheel.



7. Pull out the whole track with driving wheel.



*When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.*

#### ENGINE MAINTENANCE

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.



## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and run until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the Engine Manual.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



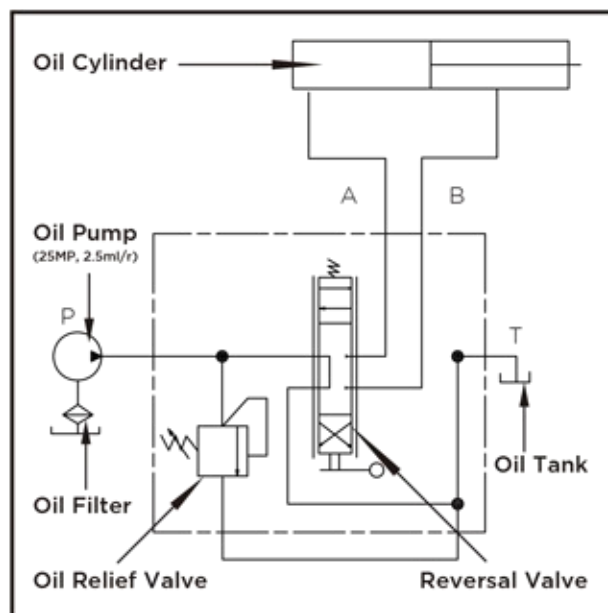
***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***

## HYDRULIC SCHEME



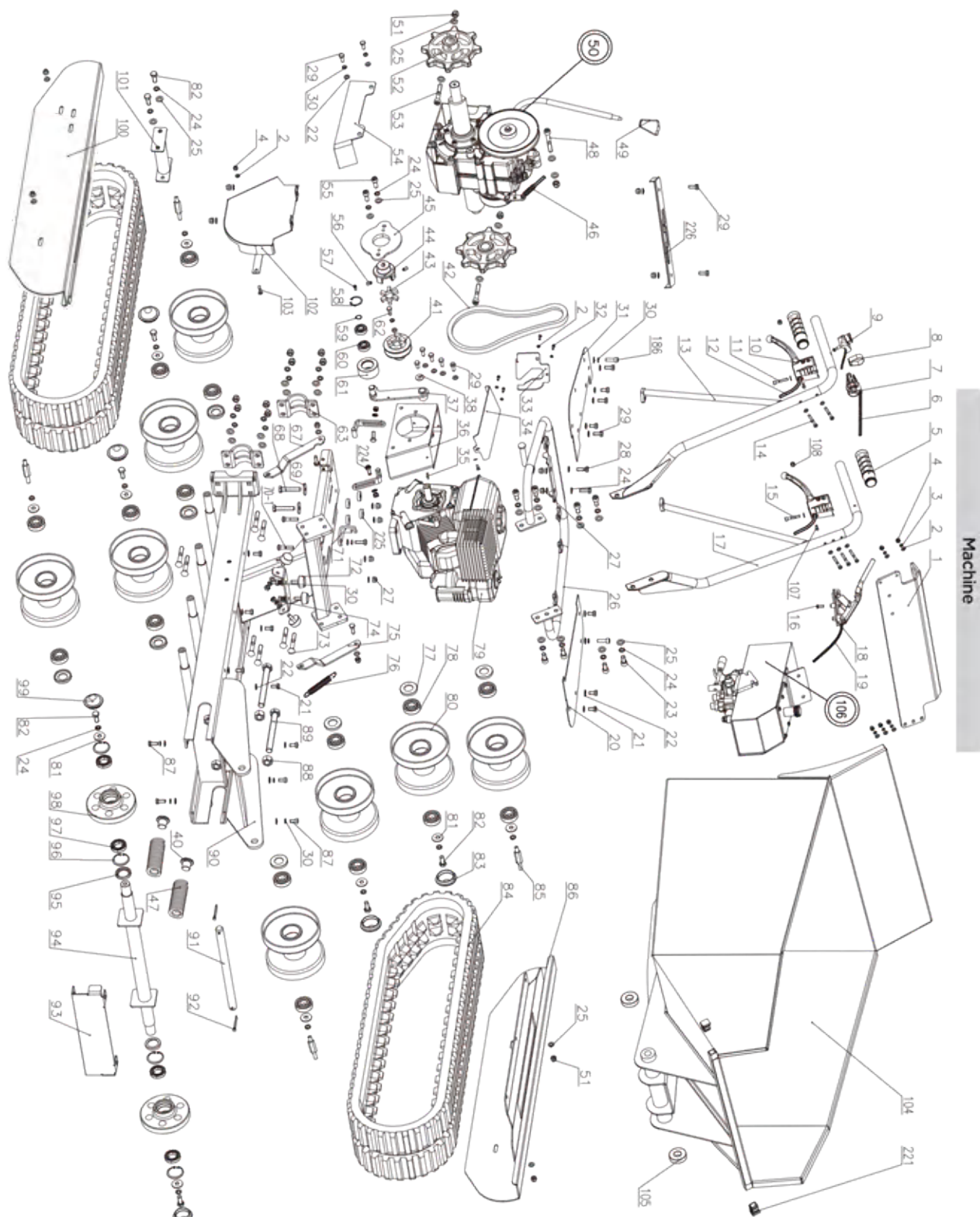


## TROUBLE SHOOTING

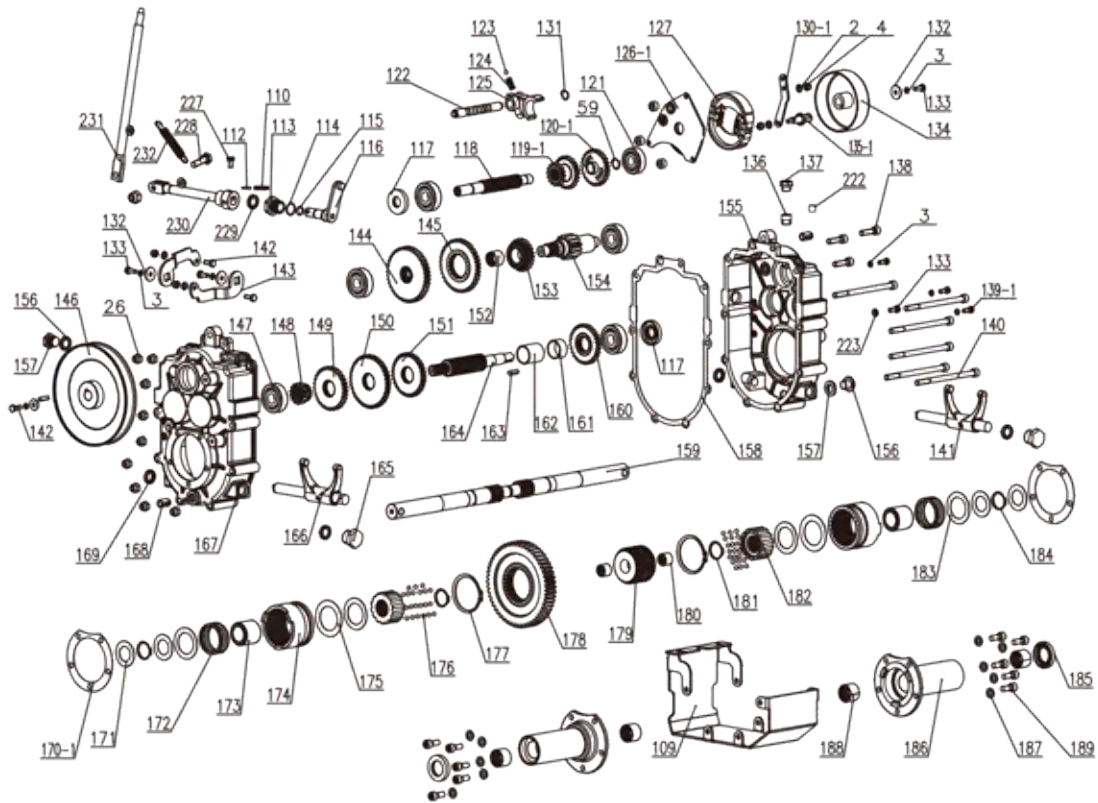
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Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> <li>1. Spark plug wire is disconnected</li> <li>2. Out of fuel or stale fuel</li> <li>3. Engine and/or Fuel valve is not in ON position</li> <li>4. Choke lever is not in CLOSE position</li> <li>5. Blocked fuel line</li> <li>6. Fouled spark plug</li> <li>7. Engine flooding</li> <li>8. Belt tension lever is engaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug</li> <li>2. Fill with clean, fresh gasoline</li> <li>3. Engine and Fuel valve must be in ON position</li> <li>4. Choke level must be in CLOSE position for a cold start</li> <li>5. Clean fuel line</li> <li>6. Clean, adjust gap, or replace</li> <li>7. Wait a few minutes to restart, but do not prime</li> <li>8. Disengage the belt tension lever</li> </ol>
Engine runs erratically	<ol style="list-style-type: none"> <li>1. Spark plug wire is loose</li> <li>2. Unit running with Choke lever in CLOSE position</li> <li>3. Blocked fuel line or stale fuel</li> <li>4. Vent plugged</li> <li>5. Water or dirt in fuel system</li> <li>6. Dirty air cleaner</li> <li>7. Improper carburetor adjustment</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire</li> <li>2. Move choke lever to OPEN position</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline</li> <li>4. Clear vent</li> <li>5. Drain fuel tank. Refill with fresh fuel</li> <li>6. Clean or replace air cleaner</li> <li>7. Refer to engine manual</li> </ol>
Engine overheats	<ol style="list-style-type: none"> <li>1. Engine oil level low</li> <li>2. Dirty air cleaner</li> <li>3. Air flow restricted</li> <li>4. Carburetor not adjusted properly</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil</li> <li>2. Clean air cleaner</li> <li>3. Remove housing and clean</li> <li>4. Refer to engine manual</li> </ol>
One of the two tracks is blocked	Foreign bodies have worked their way between the track and the frame	Remove the foreign body
Machine does not move while engine is running	<ol style="list-style-type: none"> <li>1. Gear is not properly selected</li> <li>2. Driving tracks not tight enough</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears</li> <li>2. Tighten driving tracks</li> </ol>

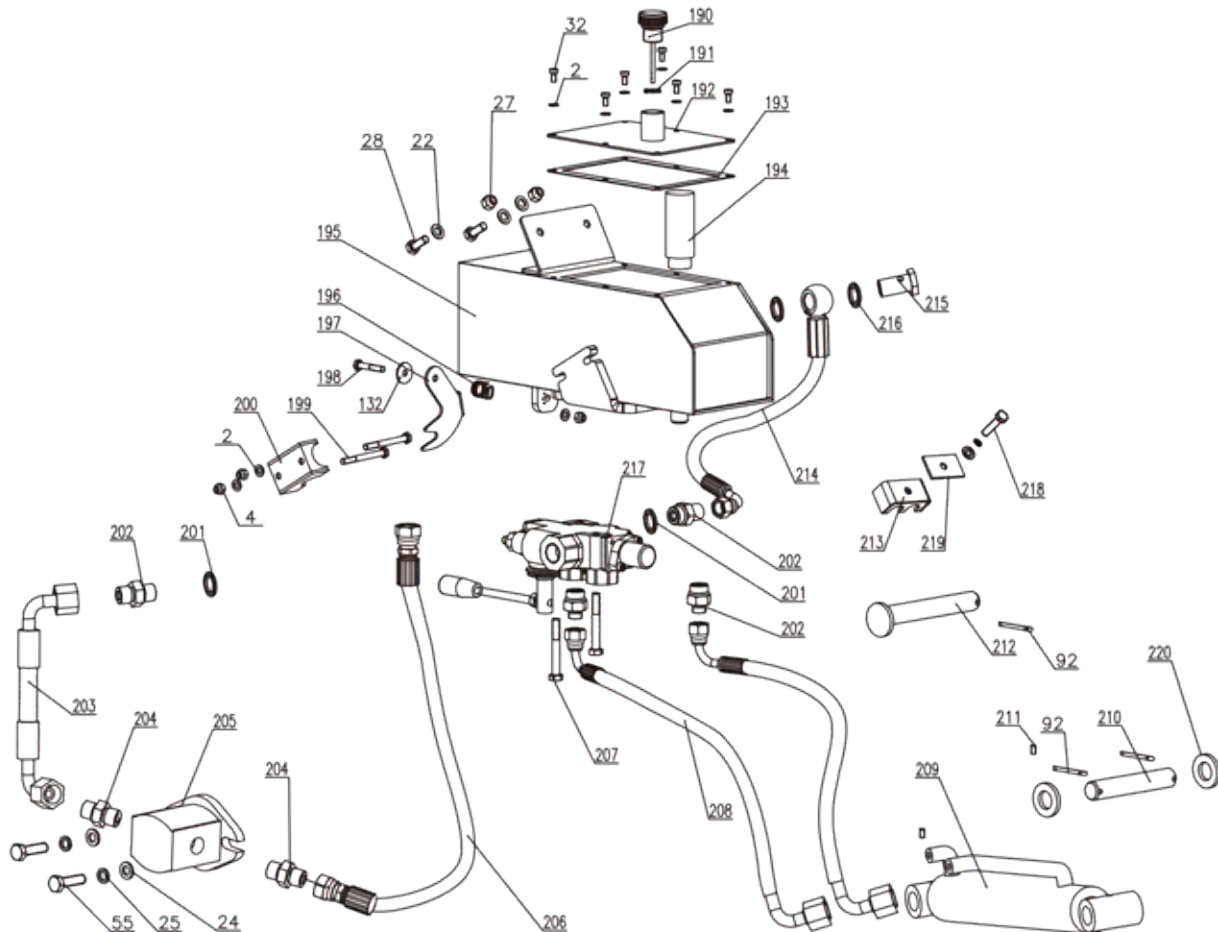
## PARTS SCHEDULE



## Gearbox (50)



## Hydraulic Assembly (106)





No.	Description	Q'ty
1	Bend Plate	1
2	Washer ø6	35
3	Spring washer 6	12
4	Nut M6	16
5	Handle sleeve	2
6	Throttle Lever	1
7	Throttle Cable	1
8	Hoop	1
9	ON/OFF Switch	1
10	Right/Left Steering Lever	1
11	Screw M6×60	2
12	Right/Left Steering Lever Cable	1
13	Right Handle Frame Assembly	2
14	Screw M6×45	1
15	Screw M6×35	5
16	Screw M6×16	1
17	Left Handle Frame Assembly	1
18	Clutch Control Lever	1
19	Clutch Control Lever Cable	1
20	Soleplate (L)	1
21	Bolt M8×16	13
22	Washer ø8	50
23	Screw M10×20	8
24	Washer ø10	32
25	Washer ø10	28
26	Handle Mounting Frame	1
27	Nut M8	23
28	Bolt M8×25	9
29	Bolt M8×20	7
30	Washer ø8	16
31	Soleplate (R)	1
32	Bolt M6×12	6
33	Small Belt Pulley Cover 1	1
34	Cover Plate	1
35	Key5×35	1
36	Fixed Bracket	1
37	Tensioner Pulley Bracket	1
38	Washer ø8	2
39	_____	—
40	Locating Sleeve	2

No.	Description	Q'ty
41	Small Belt Pulley	1
42	Belt B32	1
43	Rubber Gasket	1
44	Coupler Sleeve (R)	1
45	Pump Mounting Flange	1
46	Brake Cable	1
47	Tension Spring	2
48	Screw M10×70	1
49	Lever	1
50	Gear Box Complete	1
51	Lock Nut M10	15
52	Driving Wheel	2
53	Screw M10×60	2
54	Small Belt Pulley Cover 2	1
55	Screw M10×25	4
56	Screw M6×8	2
57	Screw M5×12	1
58	Circlip 35	1
59	Circlip 15	2
60	Bearing 6202-2RS	2
61	Tensioner Pulley	1
62	Bolt M8×30	2
63	Wheel Shaft Press Plate	2
64	_____	—
65	_____	—
66	_____	—
67	Support Plate	1
68	Bolt M8×50	2
69	Washer	2
70	Bolt M8×45	2
71	Cable Fixing Bracket	1
72	Rubber Mat	4
73	Bolt M10×65 w/glue	8
74	Nut M8	4
75	Support Plate (L)	1
76	Long Extension Spring	1
77	Gasket 25×47×7	8
78	Bearing 6204-2RS	16
79	Engine (6.5HP)	1
80	Supporting Wheel weldment	8

No.	Description	Q'ty
81	Washer $\phi 10$	14
82	Bolt M10x25	8
83	$\phi 47$ Axle Head Cover (Support Wheel)	4
84	Track 180x60	2
85	Two-head Stud	4
86	Guard Plate (L)	1
87	Screw M8x20	4
88	Nut M16	2
89	Bolt M16x140	2
90	Chassis Weldment	1
91	Optical Axis	1
92	Cotter Pin $\phi$ 4X35	5
93	Rear Cover	1
94	Guide Wheel Axle	1
95	Gasket 42x30x7	2
96	Circlip 42	4
97	Bearing 61905-2RS	4
98	Guide Wheel	2
99	$\phi 47$ Axle Head Cover (Guide Wheel)	2
100	Guard Plate (R)	1
101	Supporting Bracket Weldment	1
102	Large Belt Pulley Cover	1
103	Bolt M6x20	1
104	Dumper Box	1
105	Spring Washer	2
106	Hydraulic System	1
107	Screw M5x20	2
108	Nut M5	2
109	Guard Cover	1
110	Cylindrical Pin 5x30	1
111	Gearshift Lever	1
112	Cylindrical Pin 3x30	1
113-1	Locating Nut	1
114	Washer Groupware 20	1
115	O-ring 11.2x1.8	1
116-1	Lever Mount Bracket	1
117	Seal FB17x40x7	2
118	Spline Shaft I	1
119-1	Duplex Slip Gear	1
120-1	Gear	1

No.	Description	Q'ty
121	Bearing 6302	1
122	Gearshift Fork Guide Pin	1
123	Small spring	1
124	Steel Ball 6	1
125	Gearshift Fork	1
126-1	Brake Drum Fixing Plate	1
127	Brake Disk Assy	1
128	_____	—
129	_____	—
130-1	Brake Pull Plate	1
131	Circlip 12	1
132	Washer 6	4
133	Bolt M6x16	4
134	Expansion Brake Cover	1
135-1	Stud	1
136	Vent-Plug Joint sleeve	1
137	Vent-Plug	1
138	Screw M8x30	3
139-1	Bolt M6x30	3
140	Screw M8x130	6
141	Clutch Fork Shaft ( L )	1
142	Bolt M6x20	3
143	Swing Plate	2
144	Gear III -4	1
145	Gear III -3	1
146	Large Belt Pulley	1
147	Bearing 6303	5
148	Gear II -5	1
149	Gear II -4	1
150	Gear II -3	1
151	Gear II -2	1
152	Gear III -2 Bush	1
153	Gear III -2	1
154	Gear Shaft III	1
155-1	Gear Box Case (L)	1
156	Plug M14x1.5	2
157	Washer Groupware 14	2
158	Gear Box Case Paper Spacer	1
159	Output Shaft	2
160	Gear II -1	1

**GB**

No.	Description	Q'ty
161	Bush 2	1
162	Bush 1	1
163	Key C5×20	2
164	Spline Shaft II	1
165	Plug M18×1.5	2
166	Clutch Fork Shaft ( R)	1
167	Gear Box Case ( R)	1
168	Pin 12×20	2
169	Seal FB16×22×4	2
170-1	Output Gear Bush Paper Spacer	2
171	Gasket 1	4
172	Clutch Spring	2
173	Spring Guide Bush	2
174	Clutch Bush	2
175	Spring Gasket	2
176	Steel Ball 5	70
177	Circlip 58	2
178	Output Gear	1
179	Intermediate Joint Bush	1
180	Intermediate Joint Bush Composite Bushing	2
181	Circlip 26	2
182	Joint Bush	2
183	Spring Gasket	4
184	Circlip 25	2
185	Washer ø8	10
186	Output Gear Bush Weldment	2
187	Seal FB42×25×7	2
188	Output Shaft Composite Bushing	4
189	Bolt M8×25 w/glue	12
190	Oil dipstick Assy	1
191	O -Ring 16×1.8	1
192	Tank Cover	1
193	Asbestos Cushion	1
194	Oil Filter	1
195	Tank	1
196	Torsion Spring	1
197	Returning Plate	1
198	Bolt M6×30	1
199	Bolt M6×60	2
200	Tank Fixing Bracket	1

No.	Description	Q'ty
201	Combined Sealing Gasket 18	4
202	Connector	4
203	Oil Outlet Pipe	1
204	NPT3/8-M18×1.5	2
205	Pump	1
206	Oil Inlet Pipe	1
207	Bolt M8×55	2
208	Rubber hose	2
209	Welding Cylinder	1
210	Spindle 2	1
211	Oil Cup 6×1	2
212	Spindle 1	1
213	Pipe Clamp	1
214	Oil Return Pipe	1
215	Bolt M14×1.5	1
216	Washer Groupware 14	2
217	Reversing Valve	1
218	Bolt M8×40	1
219	Pipe Clamp Plate	1
220	Washer 20	2
221	Pipe Plug 19×19	2
222	Spongy Cushion	1
223	Combined Sealing Washer	1
224	Bolt M8×25	2
225	Rubber Pad	4
226	Gearshift Panel	1
227	Bolt M8×12	1
228	Bolt M10×35	1
229	Seal FB14×24×7	1
230	Gearshift Lever I	1
231	Gearshift Lever I	1
232	Spring	1

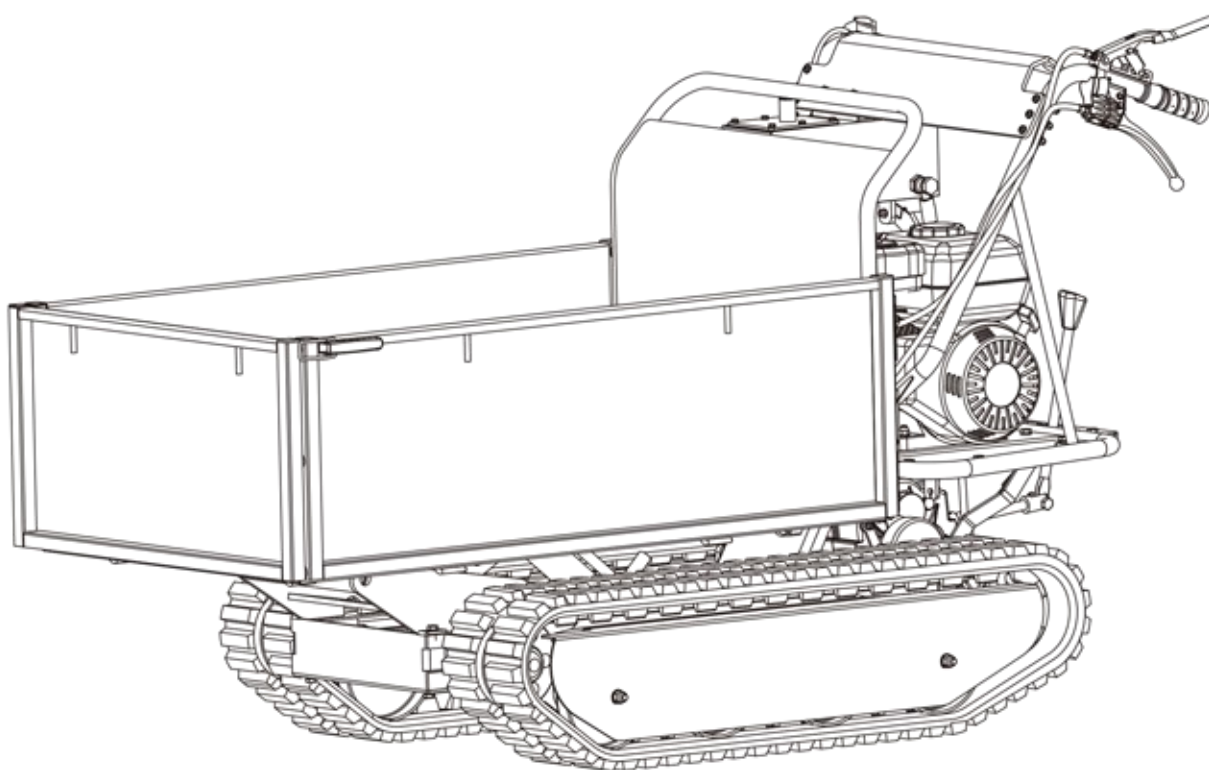


## Parts List

No.	Description	Q'ty
1	Bolt M8×35	6
2	Shave Plate	1
3	Rubber Plate	1
4	Blade Weldment	1
5	Washer8	16
6	Nut M8	13
7	Landing Leg Weldment	2
8	Blade Fixed Bracket Weldment	1
9	Bolt M8×30	4
10	Bolt M20×95	1
11	Washer 20	2
12	Nut M20	1
13	Blade Connecting Bracket Weldment	1
14	Bolt M12×40	4
15	Washer 12	2
16	Washer 12	3
17	Washer 10	4
18	Washer 10	4
19	Pin 10×60	1
20	Curved Support Bracket Weldment	1

No.	Description	Q'ty
21	Bolt M8×50	1
22	Active Connecting Weldment	1
23	Nut M12	2
24	Bolt M10×25	2
25	Bolt M8×35	1
26	Adjusting Rod Weldment B	1
27	Bolt M8×40	1
28	Adjusting Rod Weldment A	1
29	Handle Sleeve 28	2
30	Limiter Rod Wedment	1
31	Bolt M24×110	1
32	Limiter Weldment	1
33	Washer24	1
34	Lock Nut M24	1
35	Spring	1
36	Bridge Pin 2×11×35	1
37	Pin 4×40	1
38	Handle Grip 2	1
39	Bended Plate	1
40	Bolt M10×30	2
41	Handle Sleeve 25	1

MINI TRACKED DUMPER



# Mini Tracked Dumper

## Operator's Manual

**MODEL NUMBER :** ☐ QTP500N Crawler Type

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**

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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.	QTP500N		
Engine	196cc, 6.5HP	270cc, 9.0HP	302cc, 10.0HP
Transmission	3 Forward / 1 Reverse		
Load Capacity	500 kg		
Box Length	1025-1155 mm		
Box Width	625-885 mm		
Box Depth	325 mm		
Track Width	180 mm		
Pump Flow	10.8 L/min		
Sound power level	101 dB(A) $k=2$ dB(A)		
Sound pressure level	81.5 dB(A) $k=2$ dB(A)		
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>	
	Right	11.3 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>	
Weight	262 kg	266.5 kg	271.5 kg



## RECYCLING AND DISPOSAL



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or check with your local authority or local stores for advice of environmental safe recycling.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Do not touch parts that are hot from operation. Serious burns may result.



Keep your hands clear from all rotating parts.



Never start or run the engine inside a closed area.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Be aware, objects may be thrown while in use.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Always turn off the engine before starting maintenance.



Keep children and bystanders off and away.

GB

## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service



on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 12 mm below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.



Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

**Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.**

Never operate the machine on slopes where angle is over 20°.

When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

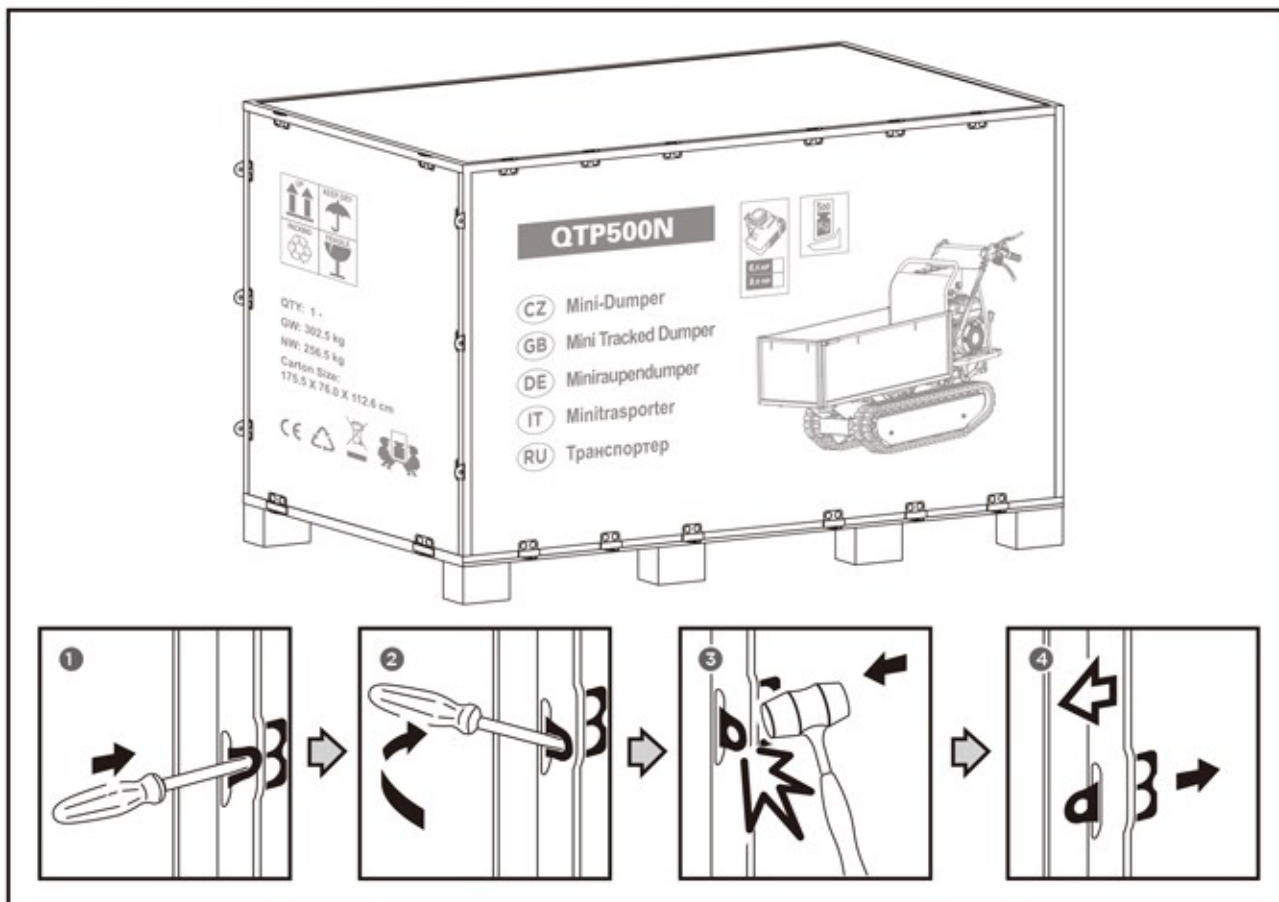
When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.



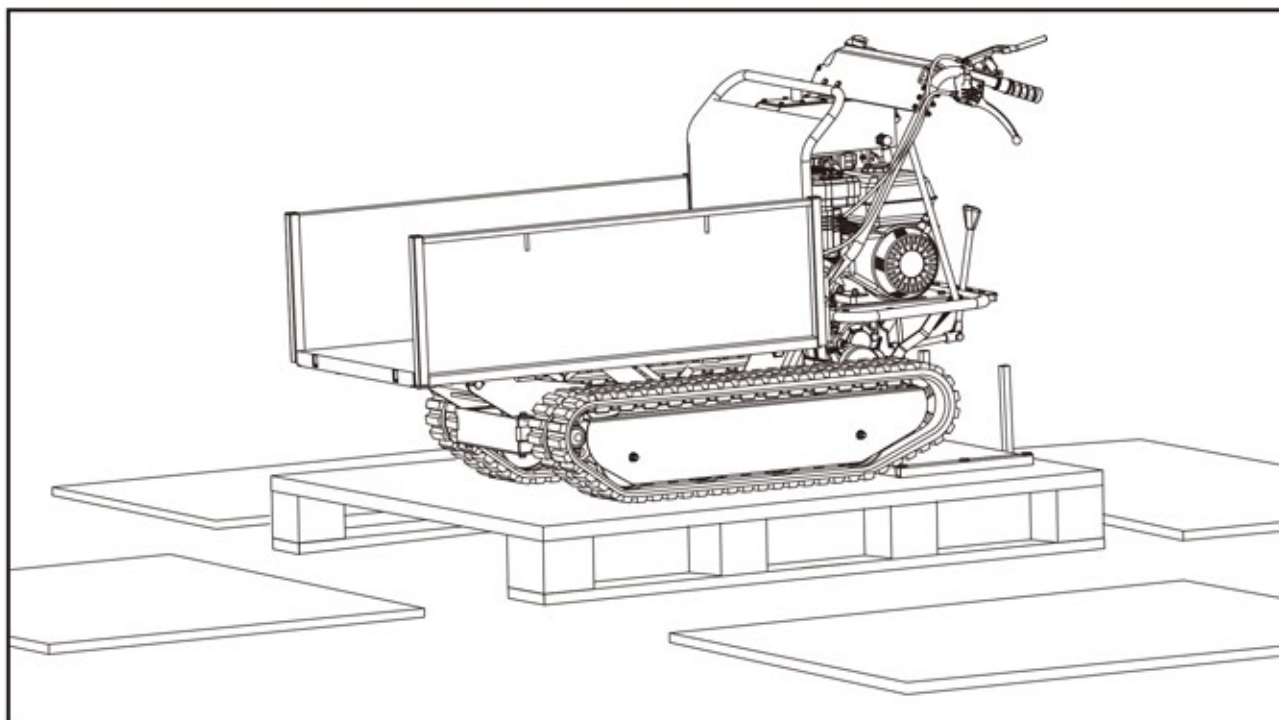
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.

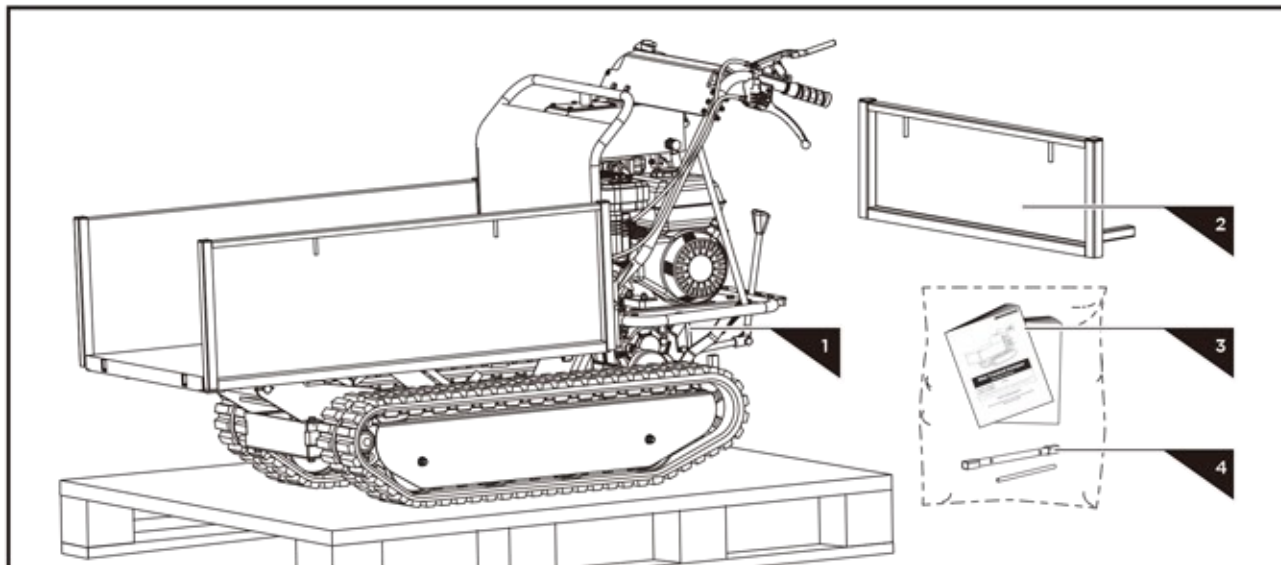


MINI TRACKED DUMPER

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## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Machine
2. Rear Panel

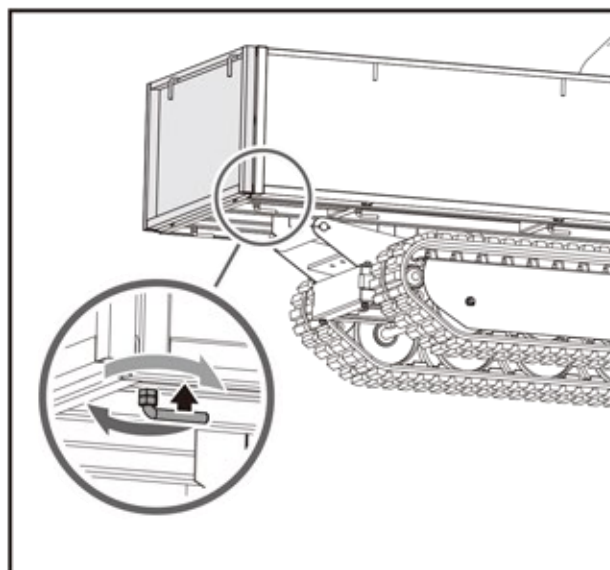
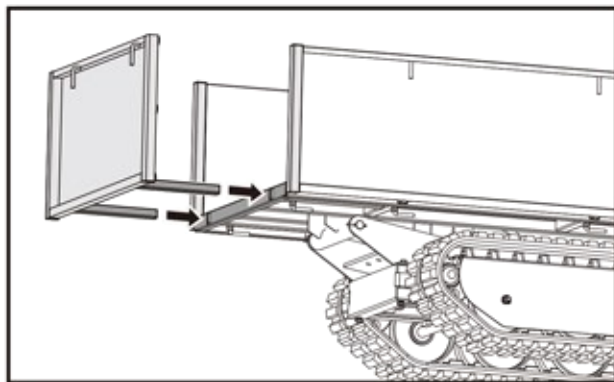
3. Operator's Manual & Engine Manual
4. Tools for Spark Plug Assembly

## ASSEMBLY

This mini tracked dumper was completely assembled at the factory. To assemble the optional plow blade follow the below instructions.

### Rear Panel

Insert the rear panel into mounting slots located on the bottom panel and fasten each at the bottom with two L pins and locknuts.





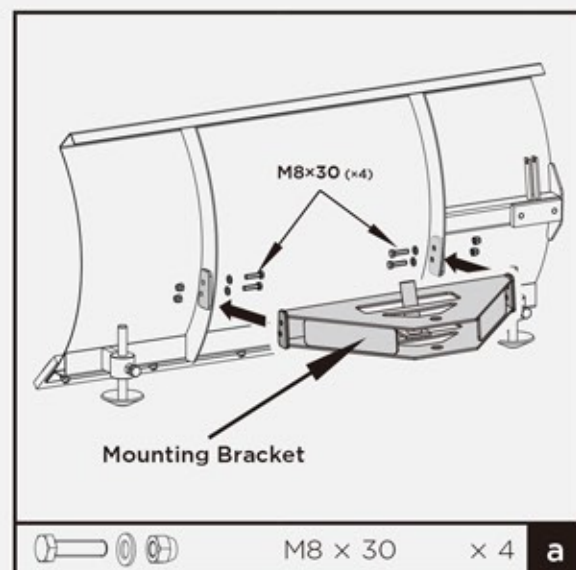


## Assembly of Optional Accessories

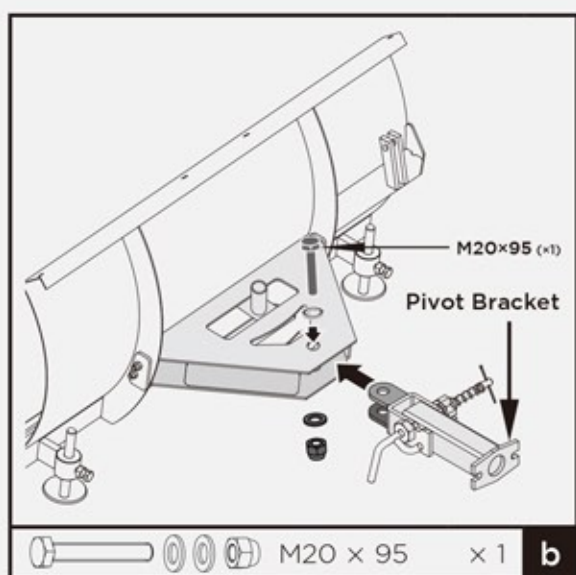
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### Plow Blade (Optional)

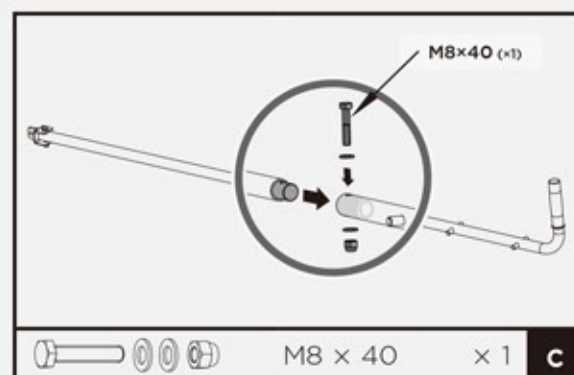
1. Mount the mounting bracket to the blade using M8×30 hex bolts, washers and nuts.



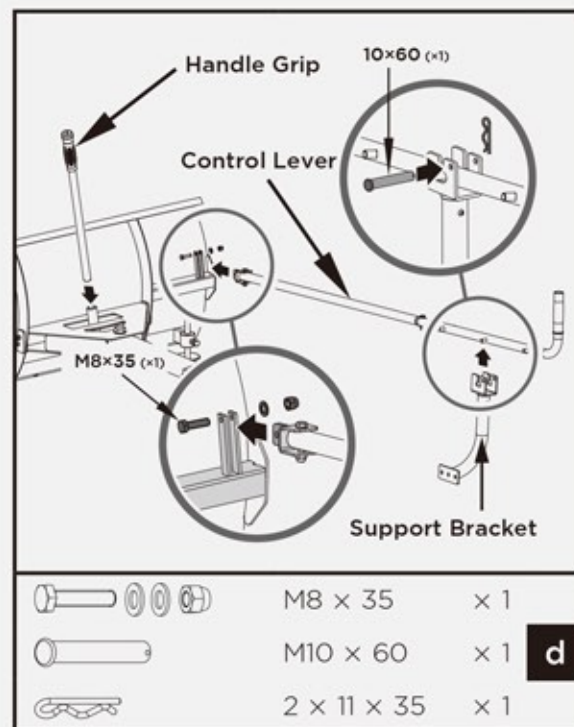
2. Position the pivot bracket inside the mounting bracket and align with mounting bracket holes. Secure with M20×95 hex bolt, washers and nut.



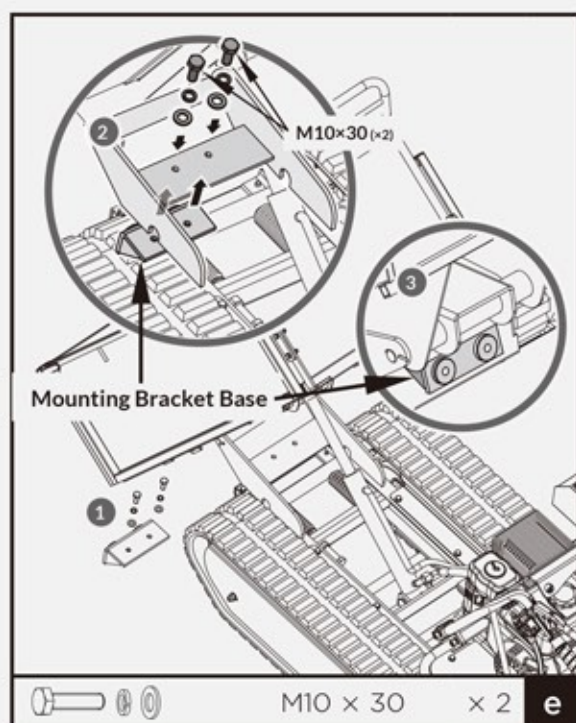
3. Insert the shorter control lever into the longer lever. Align holes and fasten with M8×40 hex bolt, washers and nut.



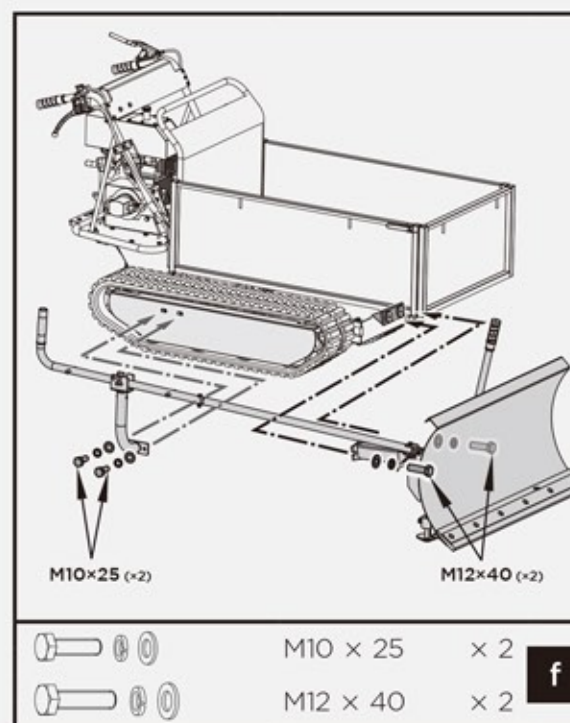
4. Attach control lever to the guide tube. Line up holes and fasten with M8×35 bolt, washers and nut.
5. Insert the handle grip into the holder.
6. Secure the support bracket into the control lever with pin 10×60 and bridge clip.



7. Install the mounting bracket base with two M10×30 bolts and washers.



8. Install the already assembled plow blade to the trackbarrow as shown.

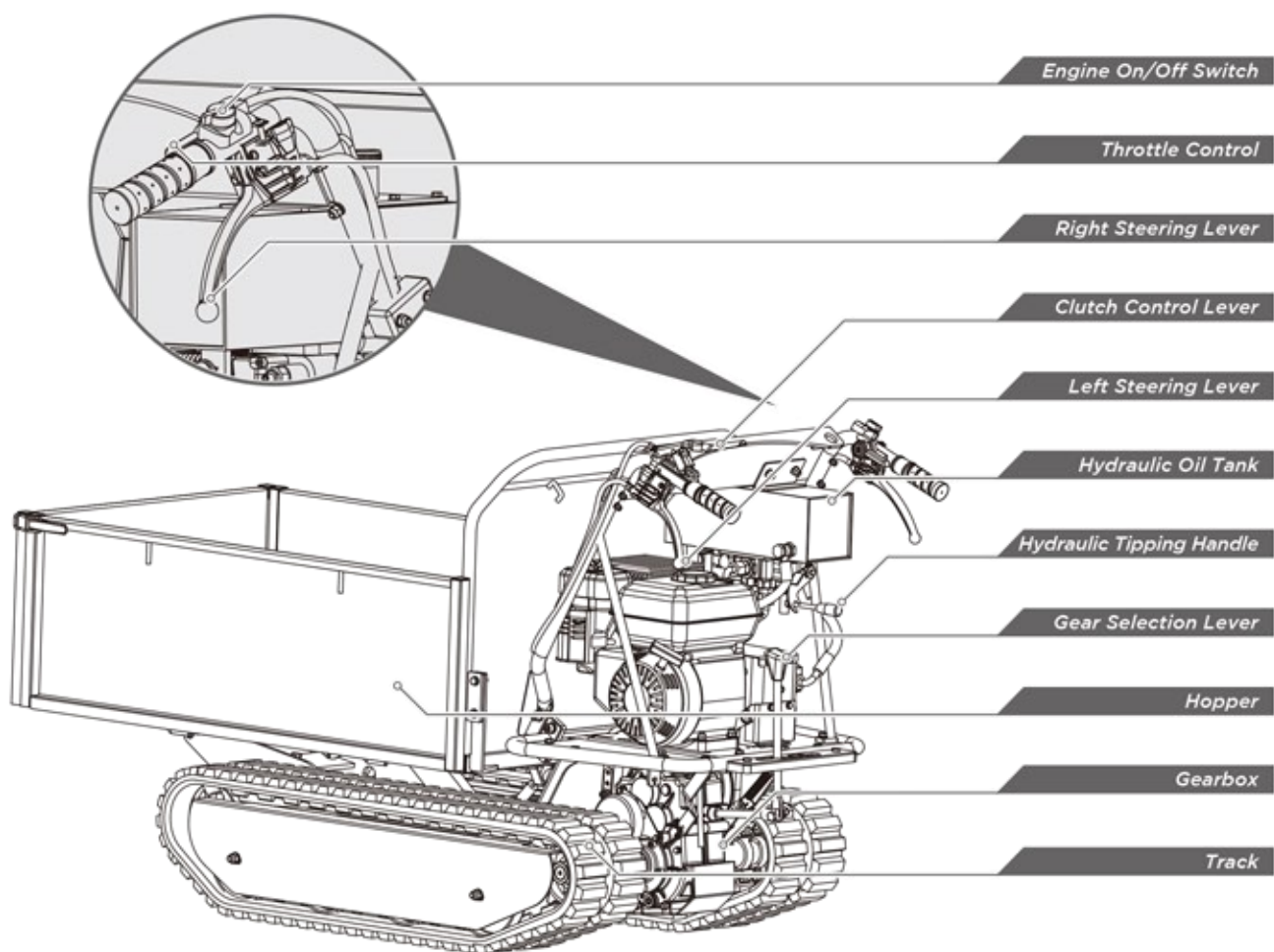




# KNOW YOUR MACHINE

## Features and Controls

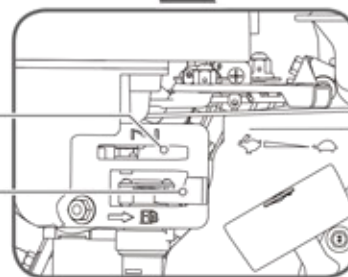
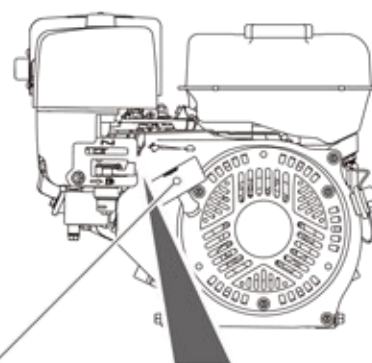
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Recoil Starter Handle

Choke Control

Fuel Shut-Off Valve



MINI TRACKED DUMPER

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### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the mini tracked dumper.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

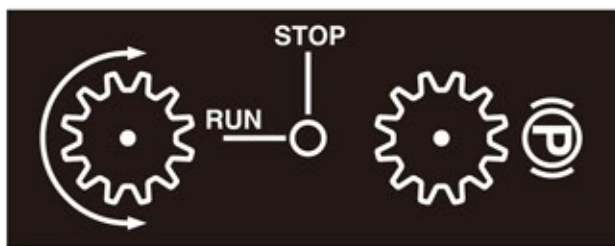
If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



*Operate the steering levers only at a reduced speed.*

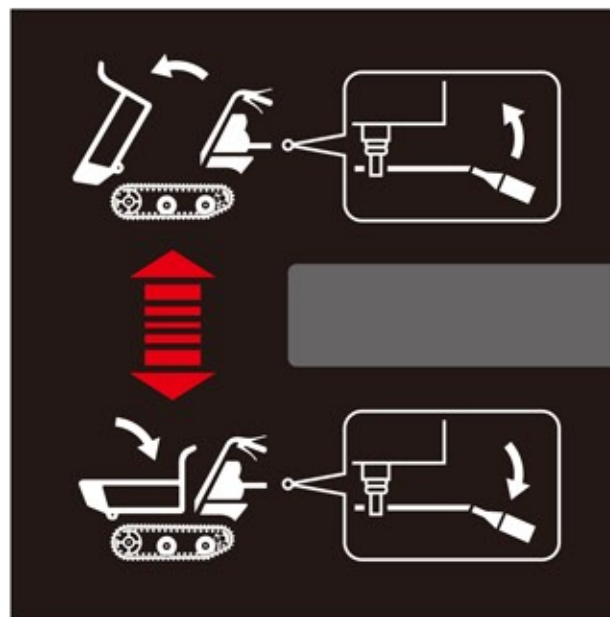
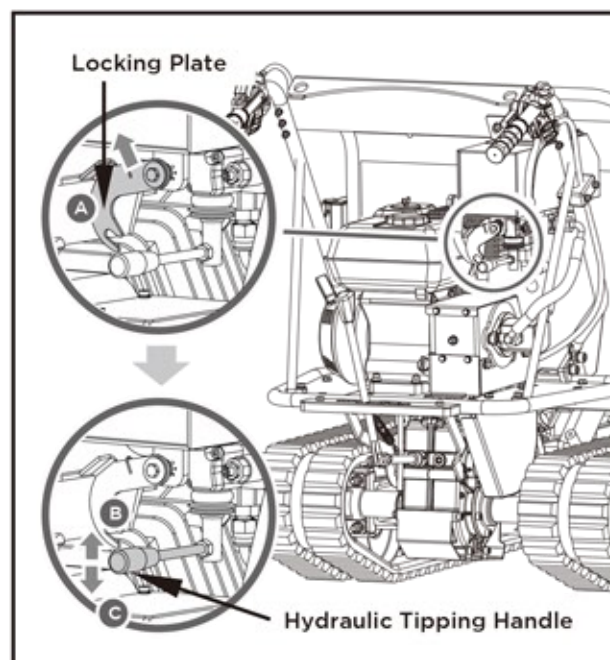


### Hydraulic Tipping Handle

Using your left hand, pull the locking plate up to release the tipping handle, and hold in position.

To raise the hopper, pull the tipping handle upwards until the hopper has reached the desired position. To stop raising the hopper, simply release the tipping handle and return the locking plate to its original position.

To lower the hopper, first pull the locking plate up with your left hand to release the tipping handle, and then pull the tipping handle down with the right hand. When the hopper is lowered to the original position, release the tipping handle back to its original position and lock securely with the locking plate.





### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The Recoil Starter Handle is used to start the engine.

### Fuel Shut-Off Valve

The fuel shut - off has two position.

CLOSED (🔒) - use this position to service, transport, or store the unit.

OPEN (🔓) - use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST 🏎️, SLOW 🐢, and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED 🚫 and CHOKE OPEN 📏 positions.



**Never use choke to stop engine.**

### Clutch Control Lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

## Operation

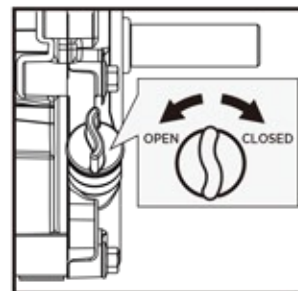
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### Add Oil To Engine



**No oil in the engine originally, but a bottle of engine oil is in scope of delivery. Don't start the engine before adding oil.**

1. Make sure the mini tracked dumper is on a flat, level surface.



2. Remove the oil fill cap/dipstick to add oil.

3. Using a funnel, add oil up to the **FULL** mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Oil To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)



**IMPORTANT: DO NOT OVERFILL!**

*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

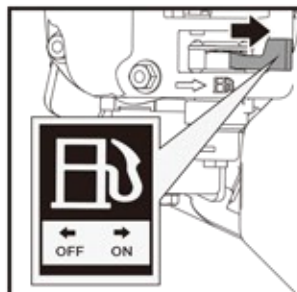
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

**Starting Engine**

1. Move the engine switch to the ON position.

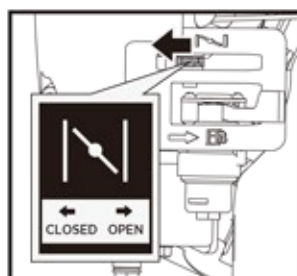


2. Open the fuel shut-off valve.

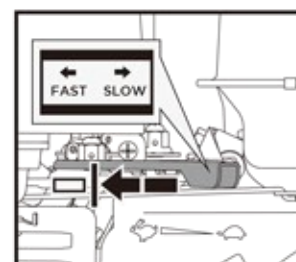


3. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

**Operating**

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the mini tracked dumper will start moving.

The mini tracked dumper has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to turn. When the machine is fully loaded, more pressure is required.

The mini tracked dumper has a maximum capacity of 1100 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.





Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the mini tracked dumper unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

#### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

#### Stop Engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🛑) position.



**Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.**



**Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.**

## MAINTENANCE

GB

Maintaining your mini tracked dumper will ensure long life to the machine and its components.

#### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the mini tracked dumper. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Replace the spark plug wire.



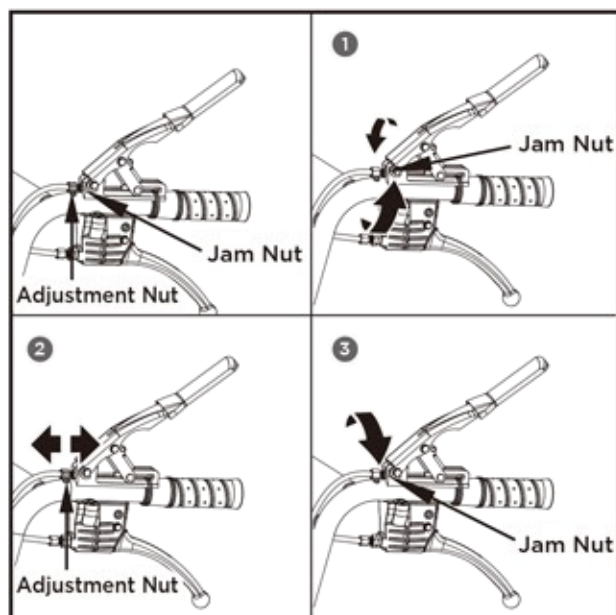
**Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.**

#### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.

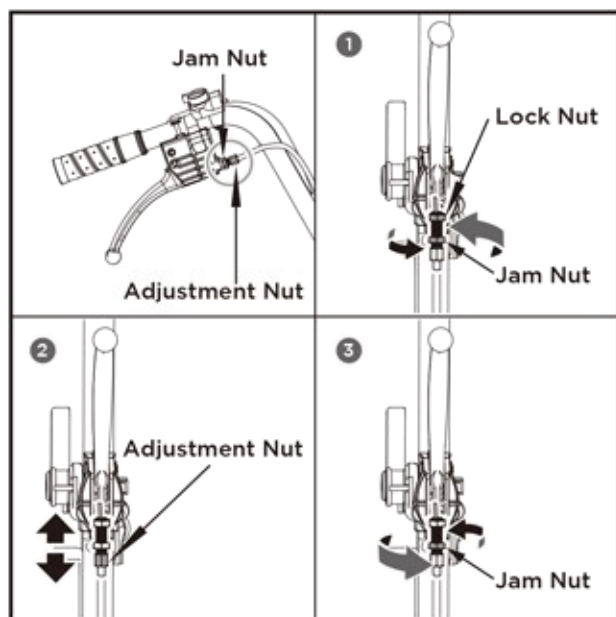
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

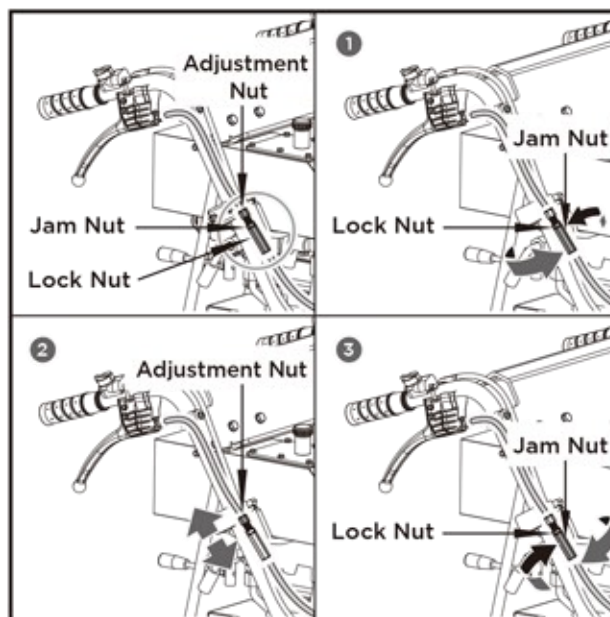
If steering becomes difficult to engage follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



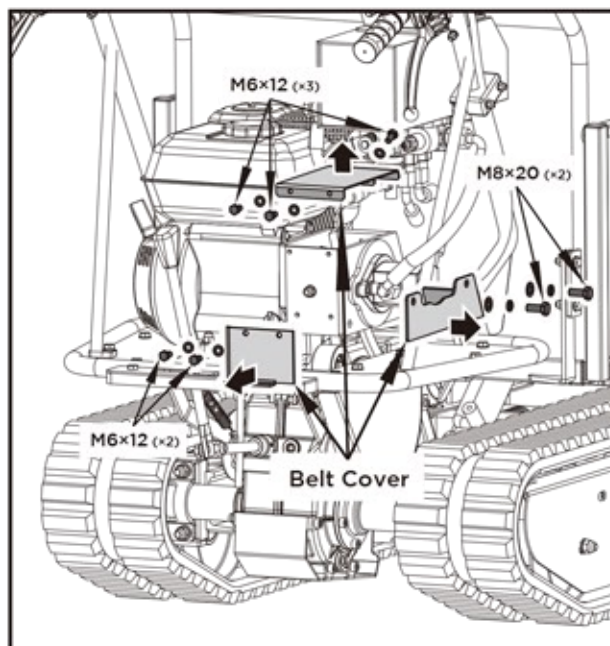
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Replacing Drive Belt

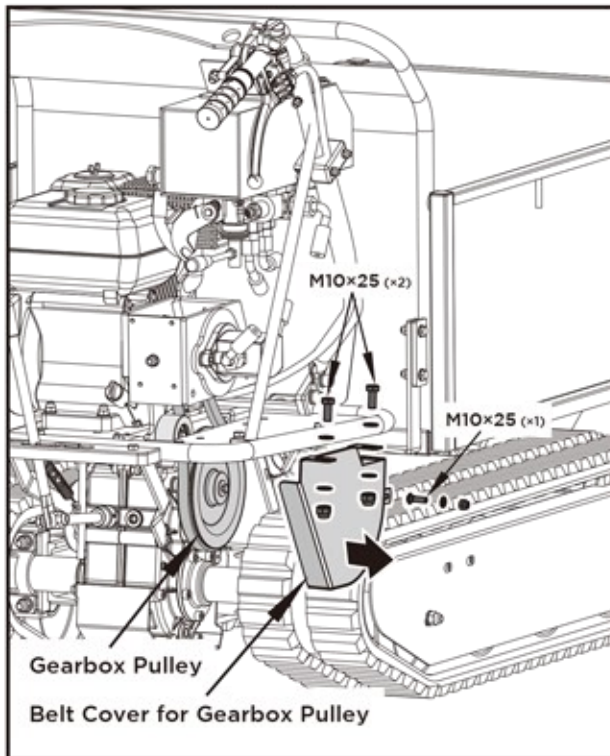
Remove three belt covers as shown.





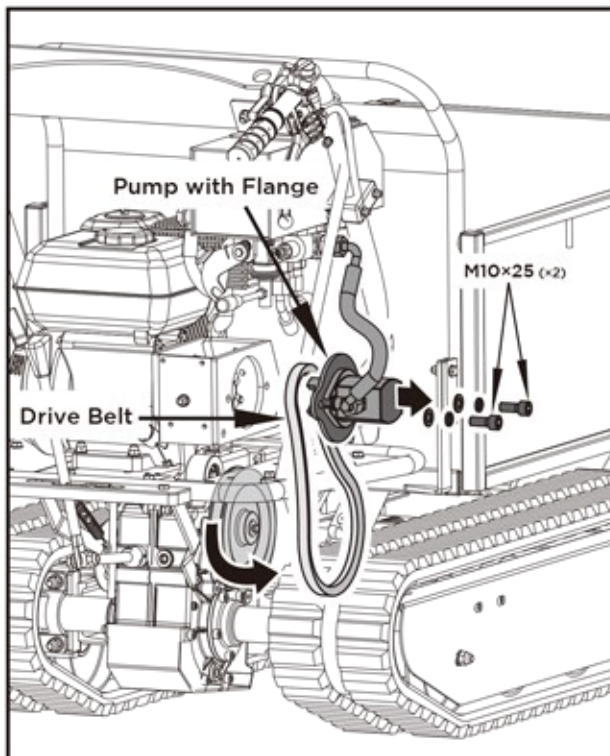


Remove the belt cover for gearbox pulley.



Disassemble the two M10x25 bolts, spring washers and flat washers, remove the pump with flange.

Turn the gearbox pulley and pull out the belt.



## Lubrication

### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.

### Gearbox Lubrication

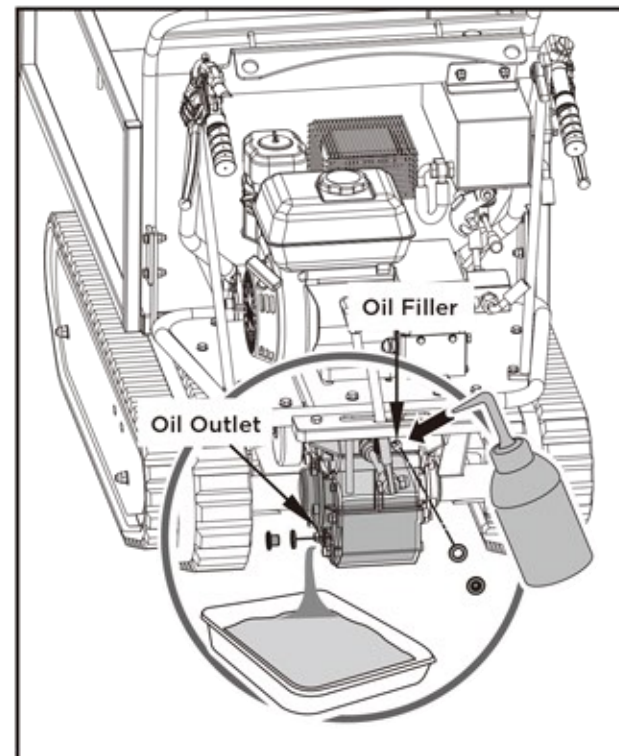
The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

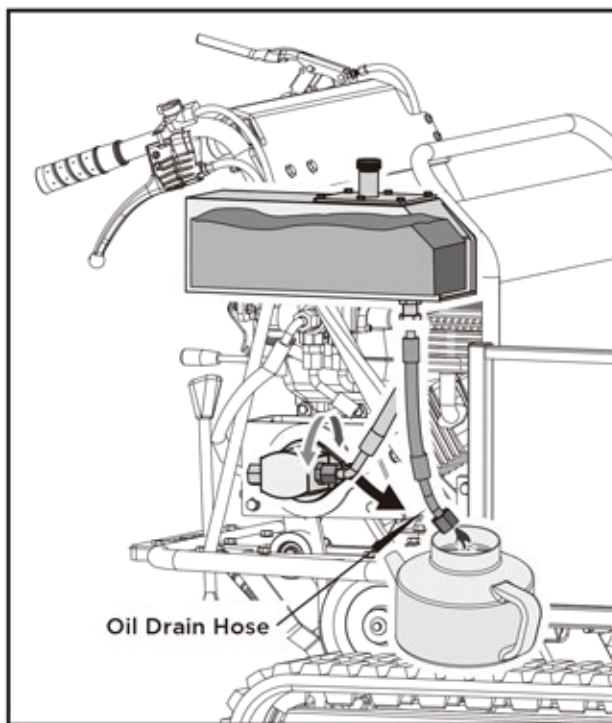
When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.



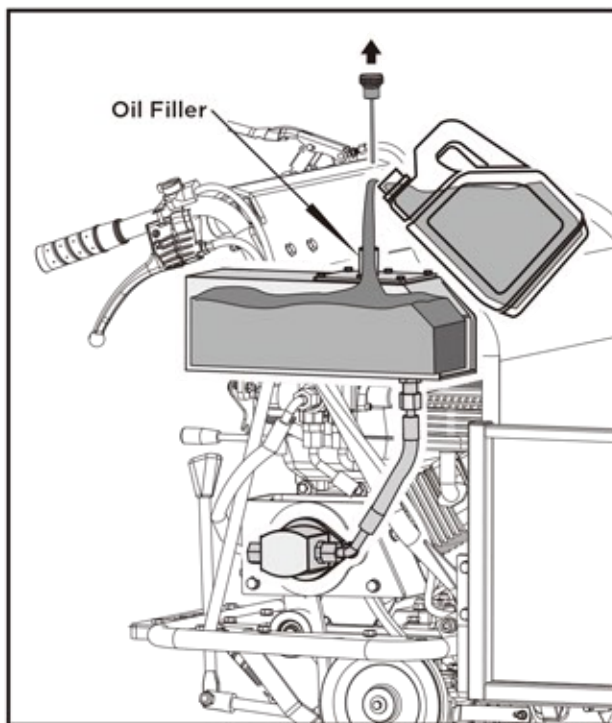


## Hydraulic Oil

Unscrew the locking nut to drain the oil into the pan.



Remove the oil dipstick and add the oil. The recommended hydraulic oil is 10W AW32, ASLE H-150, or ISO 32. Tank Capacity is 3L.

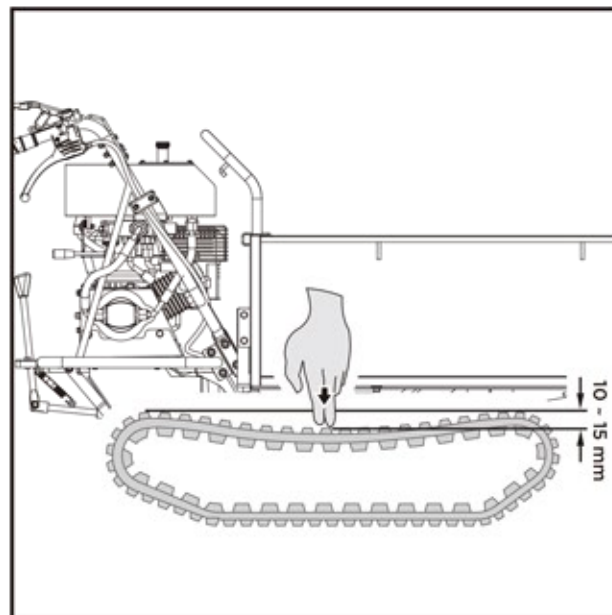


## Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

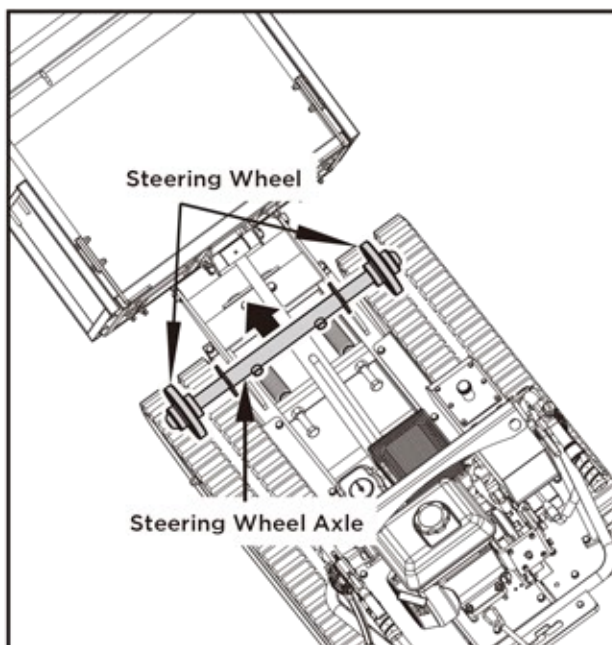
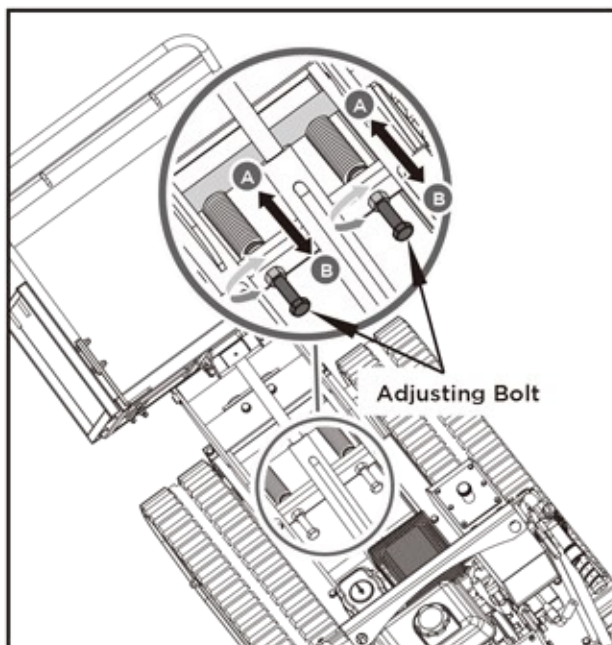
To check track tightness, proceed as follows.

1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10 - 15 mm.



If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.



**Caution:** Do not over-tighten your track. The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

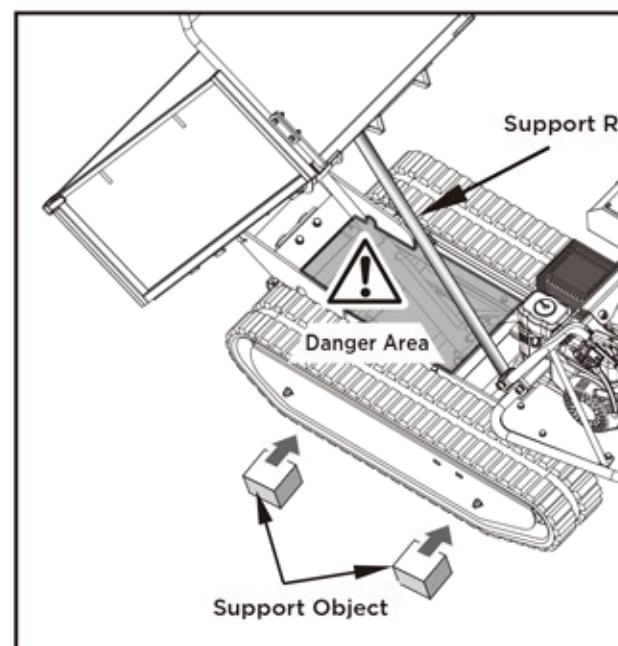


**If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.**

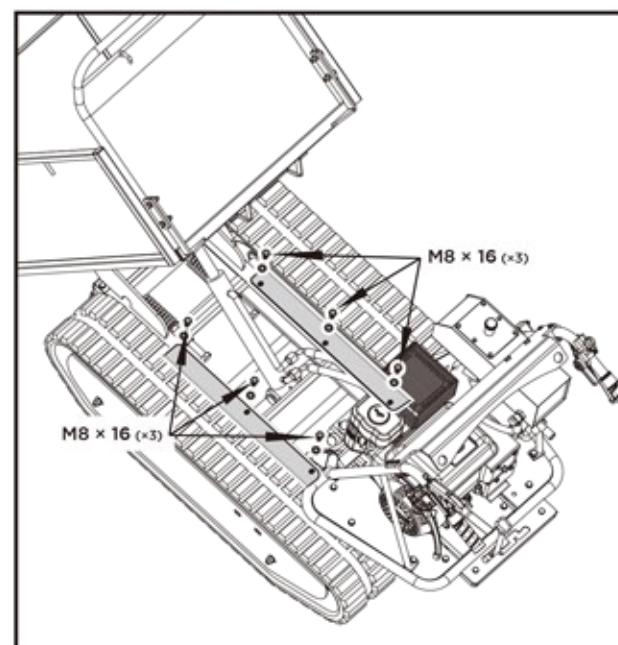
## Replacing Tracks

Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.

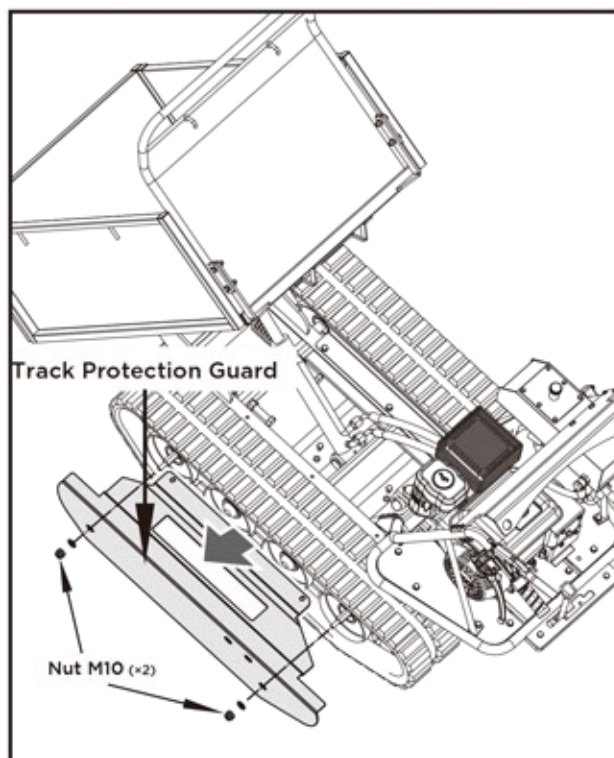


3. Remove the three M8x16 bolts and washers that fix the track protection guard.

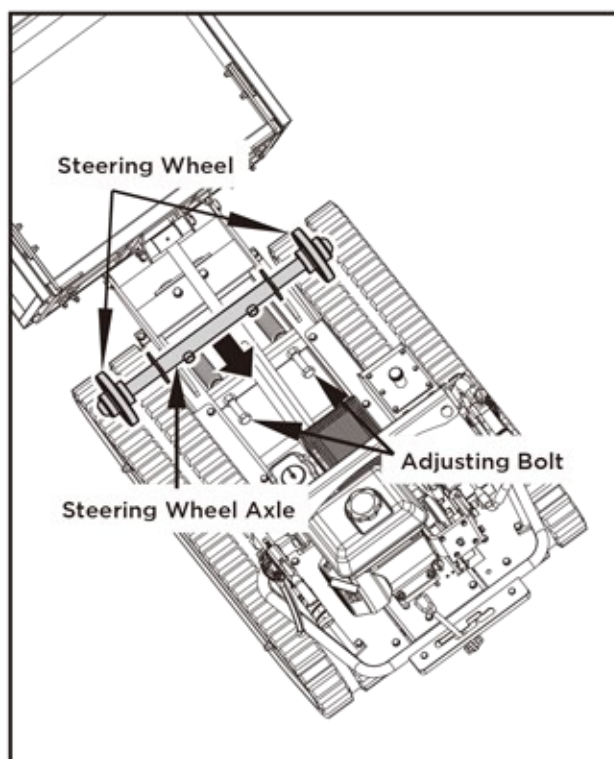




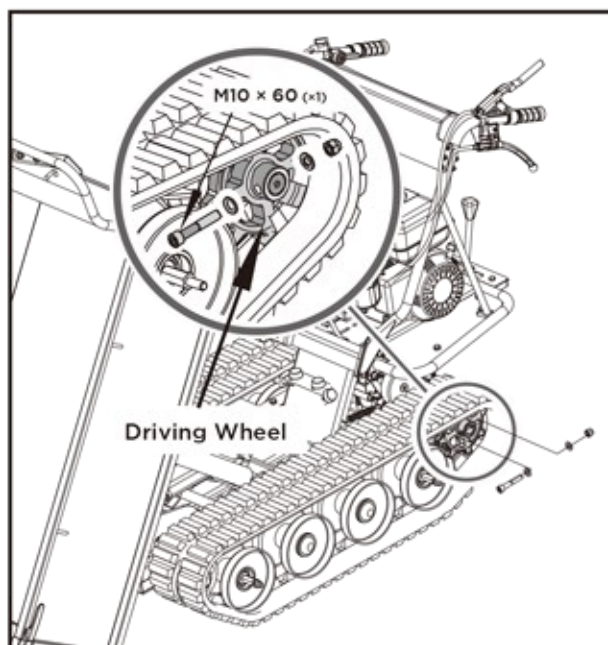
4. Remove the two M10 nuts and washers from the side of track protection guard.



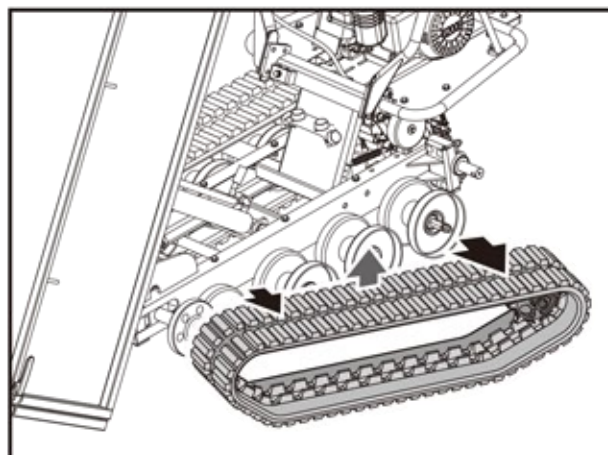
5. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.



6. Remove the M10x60 bolt, washers and nut from the driving wheel.



7. Pull out the whole track with driving wheel.



*When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.*

#### ENGINE MAINTENANCE

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.





## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and run until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the Engine Manual.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

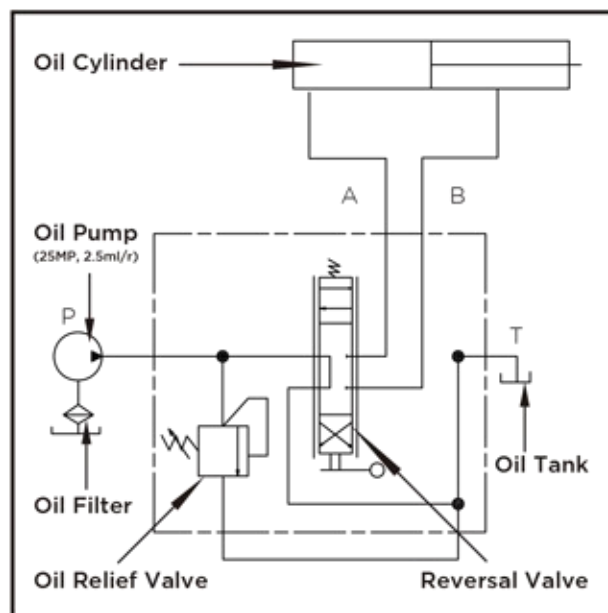
5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***

## HYDRULIC SCHEME

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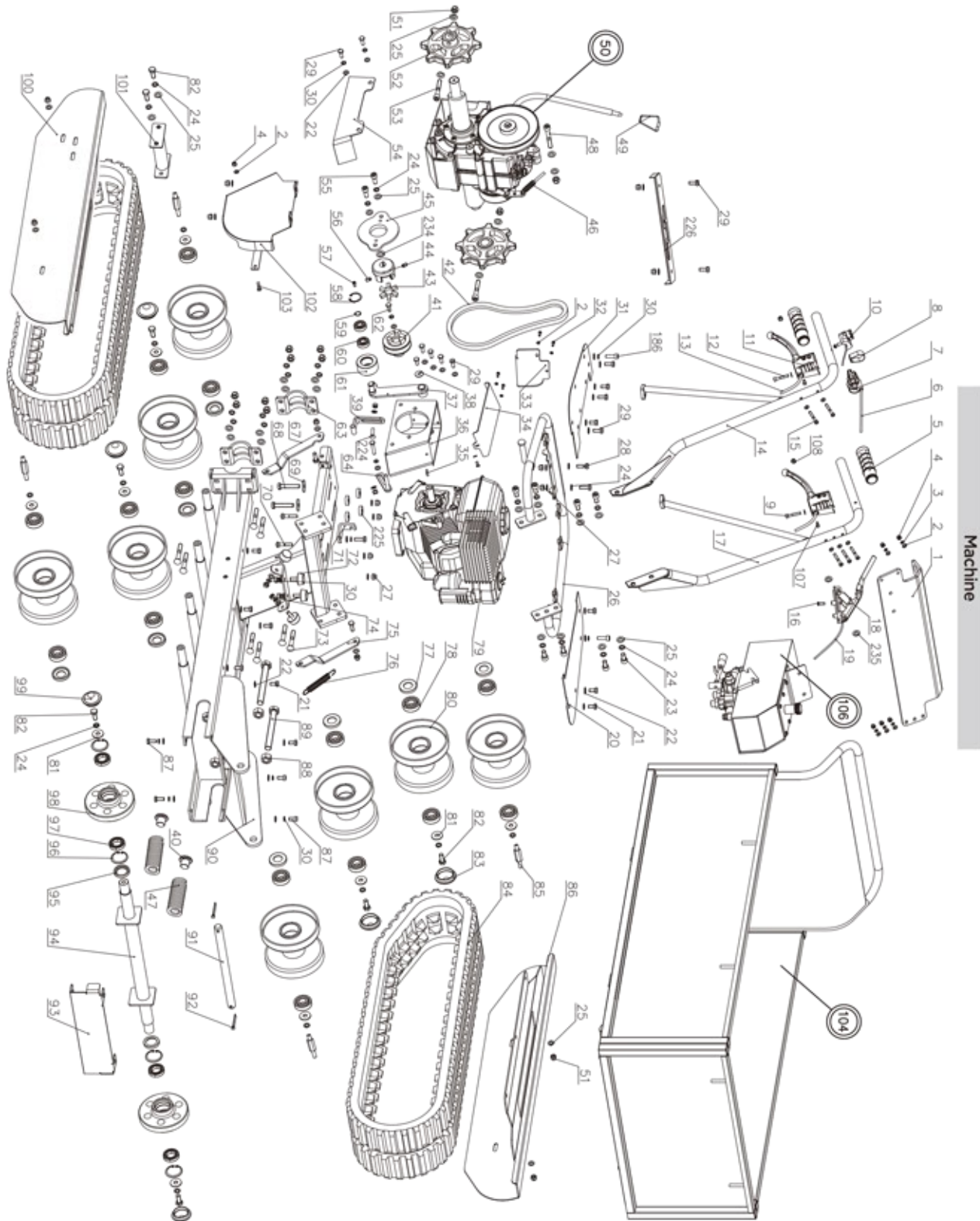
## TROUBLE SHOOTING

Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"> <li>1. Spark plug wire is disconnected</li> <li>2. Out of fuel or stale fuel</li> <li>3. Engine and/or Fuel valve is not in ON position</li> <li>4. Choke lever is not in CLOSE position</li> <li>5. Blocked fuel line</li> <li>6. Fouled spark plug</li> <li>7. Engine flooding</li> <li>8. Belt tension lever is engaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Attach spark plug wire securely to spark plug</li> <li>2. Fill with clean, fresh gasoline</li> <li>3. Engine and Fuel valve must be in ON position</li> <li>4. Choke level must be in CLOSE position for a cold start</li> <li>5. Clean fuel line</li> <li>6. Clean, adjust gap, or replace</li> <li>7. Wait a few minutes to restart, but do not prime</li> <li>8. Disengage the belt tension lever</li> </ol>
Engine runs erratically	<ol style="list-style-type: none"> <li>1. Spark plug wire is loose</li> <li>2. Unit running with Choke lever in CLOSE position</li> <li>3. Blocked fuel line or stale fuel</li> <li>4. Vent plugged</li> <li>5. Water or dirt in fuel system</li> <li>6. Dirty air cleaner</li> <li>7. Improper carburetor adjustment</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect and tighten spark plug wire</li> <li>2. Move choke lever to OPEN position</li> <li>3. Clean fuel line. Fill tank with clean, fresh gasoline</li> <li>4. Clear vent</li> <li>5. Drain fuel tank. Refill with fresh fuel</li> <li>6. Clean or replace air cleaner</li> <li>7. Refer to engine manual</li> </ol>
Engine overheats	<ol style="list-style-type: none"> <li>1. Engine oil level low</li> <li>2. Dirty air cleaner</li> <li>3. Air flow restricted</li> <li>4. Carburetor not adjusted properly</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill crankcase with proper oil</li> <li>2. Clean air cleaner</li> <li>3. Remove housing and clean</li> <li>4. Refer to engine manual</li> </ol>
One of the two tracks is blocked	Foreign bodies have worked their way between the track and the frame	Remove the foreign body
Machine does not move while engine is running	<ol style="list-style-type: none"> <li>1. Gear is not properly selected</li> <li>2. Driving tracks not tight enough</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure gear lever is not in-between two different gears</li> <li>2. Tighten driving tracks</li> </ol>



## PARTS SCHEDULE

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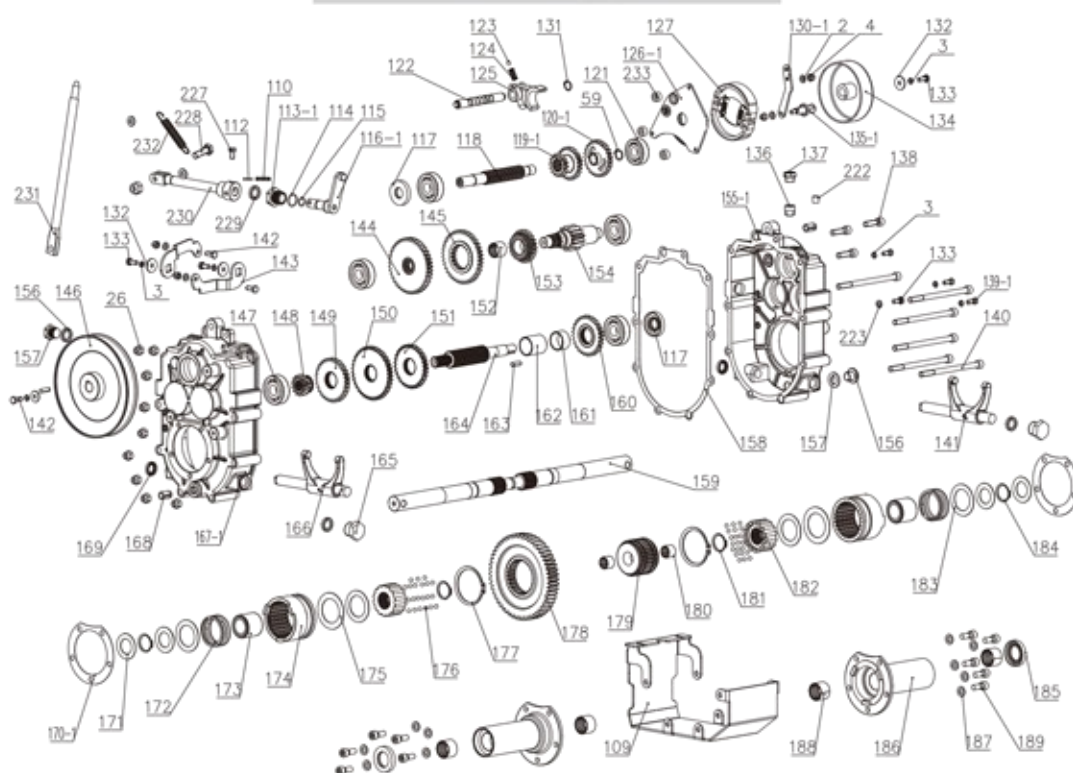
Machine

## MINI TRACKED DUMPER

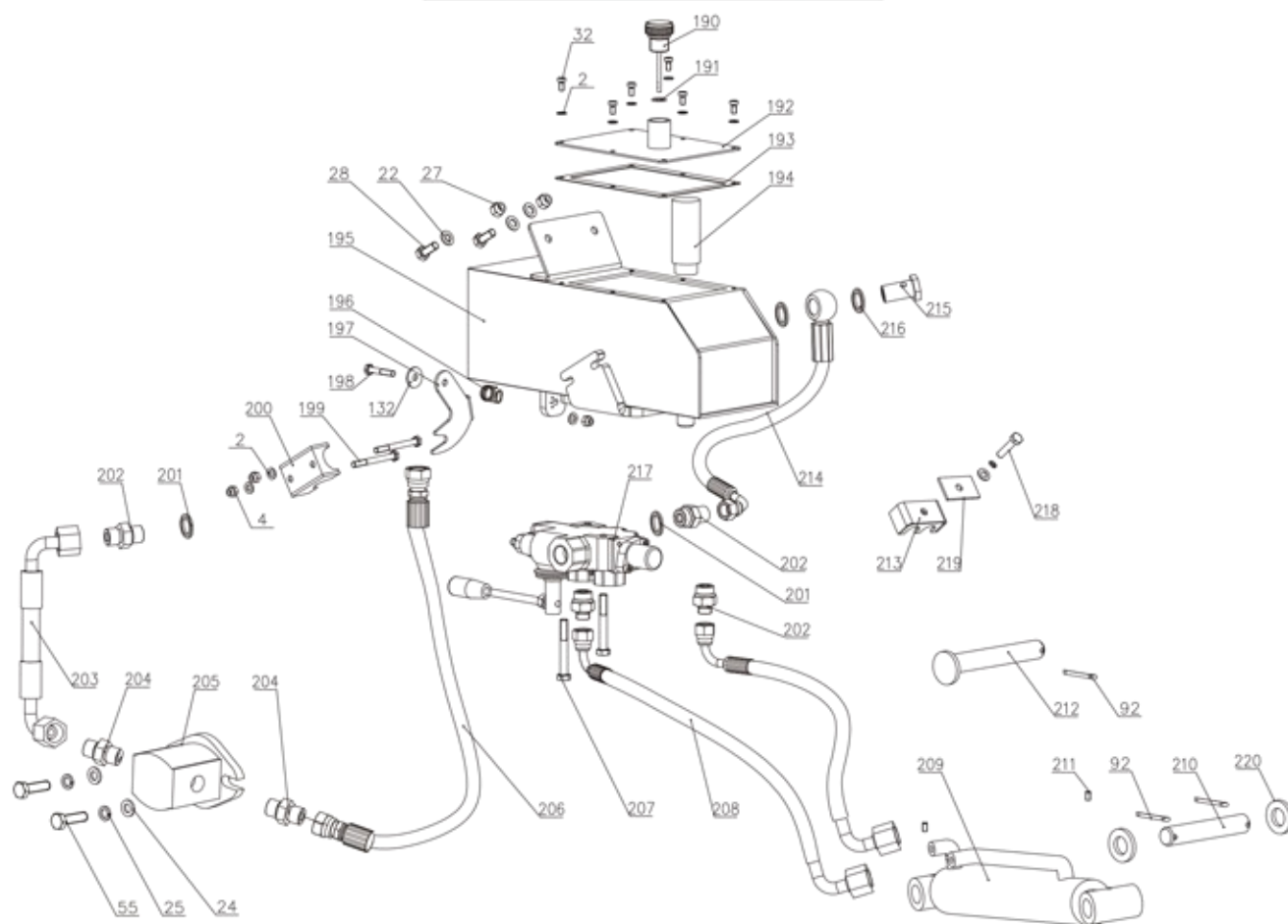
23



## Gearbox (50)

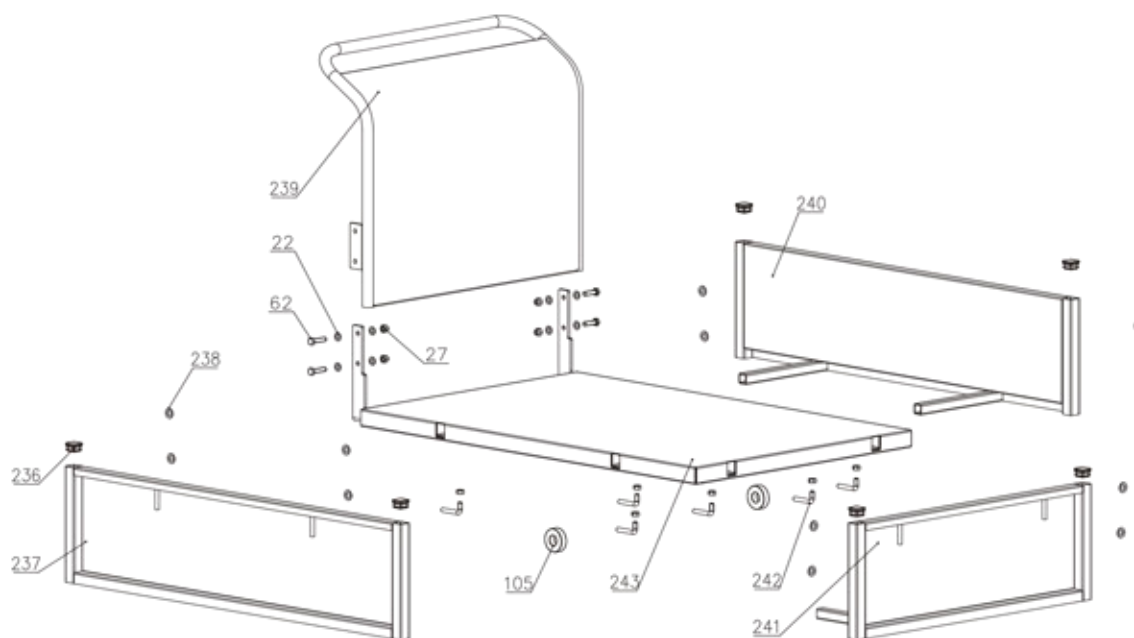


## Hydraulic Assembly (106)





## Gearbox (104)

**GB**

## Parts List

No.	Description	Q'ty
1	Bend Plate	1
2	Washer Ø6	35
3	Spring washer 6	12
4	Nut M6	16
5	Handle sleeve	2
6	Throttle Cable	1
7	Throttle Lever	1
8	Hoop	1
9	ON/OFF Switch	1
10	Right/Left Steering Lever	1
11	Screw M6×60	2
12	Right/Left Steering Lever Cable	1
13	Right Handle Frame Assembly	2
14	Screw M6×45	1
15	Screw M6×35	5
16	Screw M6×16	1
17	Left Handle Frame Assembly	1
18	Clutch Control Lever	1
19	Clutch Control Lever Cable	1
20	Soleplate (L)	1
21	Bolt M8×16	13
22	Washer Ø8	58
23	Screw M10×20	8
24	Washer Ø10	32
25	Washer Ø10	28

No.	Description	Q'ty
26	Handle Mounting Frame	1
27	Nut M8	28
28	Bolt M8×25	9
29	Bolt M8×20	7
30	Washer Ø8	16
31	Soleplate (R)	1
32	Bolt M6×12	6
33	Small Belt Pulley Cover 1	1
34	Cover Plate	1
35	Key5×35	1
36	Fixed Bracket	1
37	Tensioner Pulley Bracket	1
38	Washer Ø8	2
39	Belt Plate	1
40	Locating sleeve	2
41	Small Belt Pulley	1
42	Belt B32	1
43	Rubber Gasket	1
44	Coupler Sleeve (R)	1
45	Pump Mounting Flange	1
46	Brake Cable	1
47	Guiding Spring	2
48	Screw M10×70	1
49	Lever	1
50	Gear Box Complete	1

**MINI TRACKED DUMPER****25**

No.	Description	Q'ty
51	Lock Nut M10	15
52	Driving Wheel	2
53	Screw M10×60	2
54	Small Belt Pulley Cover 2	1
55	Screw M10×25	4
56	Screw M8×10 w/glue	2
57	Screw M5×12	1
58	Circlip 35	1
59	Circlip 15	2
60	Bearing 6202-2RS	2
61	Tensioner Pulley	1
62	Bolt M8×30	6
63	Wheel Shaft Press Plate	2
64	Belt Plate	1
65	Connecting Angle Block	1
66	Bolt M6×25	2
67	Support Plate	1
68	Bolt M8×50	2
69	Washer	2
70	Bolt M8×45	2
71	Cable Fixing Bracket	1
72	Rubber Mat	4
73	Bolt M10×65 w/glue	8
74	Nut M8	4
75	Support Plate (L)	1
76	Long Extension Sping	1
77	Gasket 25×47×7	8
78	Bearing 6204-2RS	16
79	Engine	1
80	Supporting Wheel weldment	8
81	Washer Ø10	14
82	Bolt M10×25	8
83	φ47 Axle Head Cover (Support Wheel)	4
84	Track 180×60	2
85	Two-head Stud	4
86	Guard Plate (L)	1
87	Screw M8×20	4
88	Nut M16	2
89	Bolt M16×140	2
90	Chassis Weldment	1
91	Optical Axis	1
92	Cotter Pin $\phi$ 4×35	5
93	Rear Cover	1
94	Guide Wheel Axle	1
95	Gasket 42×30×7	2
96	Circlip 42	4
97	Bearing 61905-2RS	4
98	Guide Wheel	2
99	φ47 Axle Head Cover (Guide Wheel)	2
100	Guard Plate (R)	1

No.	Description	Q'ty
101	Supporting Bracket Weldment	1
102	Large Belt Pulley Cover	1
103	Bolt M6×20	1
104	Dumper Box	1
105	Spring Washer	2
106	Hydraulic System	1
107	Screw M5×20	2
108	Nut M5	2
109	Guard Cover	1
110	Cylindrical Pin 5×30	1
111	Gearshift Lever	1
112	Cylindrical Pin 3×30	1
113-1	Locating Nut	1
114	Washer Groupware 20	1
115	O-ring 11.2×1.8	1
116-1	Lever Mount Bracket	1
117	Seal FB17×40×7	2
118	Spline Shaft I	1
119-1	Duplex Slip Gear	1
120-1	Gear	1
121	Bearing 6302	1
122	Gearshift Fork Guide Pin	1
123	Small spring	1
124	Steel Ball 6	1
125	Gearshift Fork	1
126-1	Rivet Assembly	1
127	Brake Disk Assy.	1
128	Joint Bolt	1
129	Plate	1
130-1	Brake Pull Plate	1
131	Circlip 12	1
132	washer 6	4
133	Bolt M6×16	4
134	Expansion Brake Cover	1
135-1	Stud	1
136	Vent-Plug Joint sleeve	1
137	Vent-Plug	1
138	Screw M8×30	3
139-1	Bolt M6×30	3
140	Screw M8×130	6
141	Clutch Fork Shaft ( L)	1
142	Bolt M6×20	3
143	Swing Plate	2
144	Gear III-4	1
145	Gear III-3	1
146	Large Belt Pulley	1
147	Bearing 6303	5
148	Gear II-5	1
149	Gear II-4	1
150	Gear II-3	1

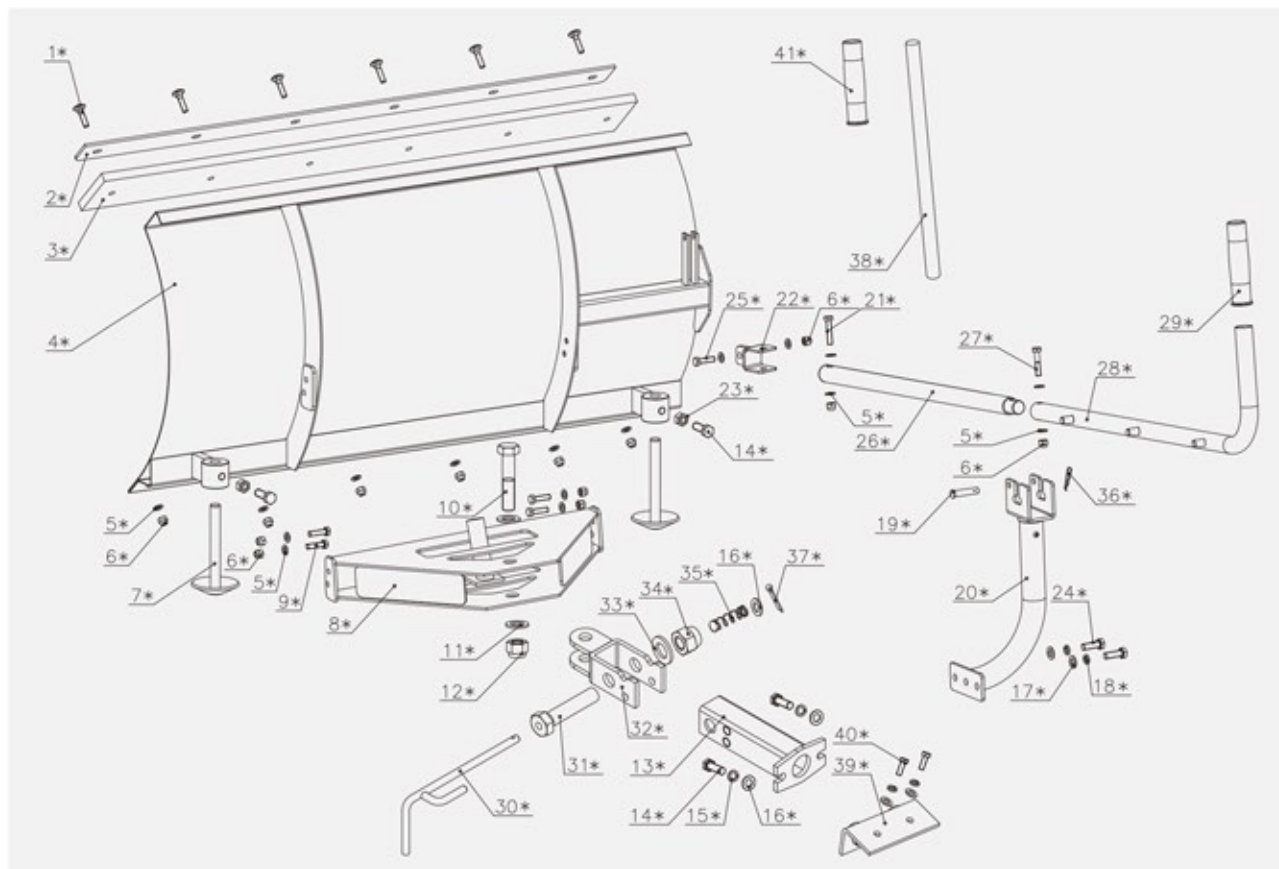


No.	Description	Q'ty
151	Gear II-2	1
152	Gear III-2 Bush	1
153	Gear III-2	1
154	Gear Shaft III	1
155-1	Gear Box Case (L)	1
156	Plug M14x1.5	2
157	Washer Groupware 14	2
158	Gear Box Case Paper Spacer	1
159	Output Shaft	2
160	Gear II-1	1
161	Bush 2	1
162	Bush 1	1
163	Key C5x20	2
164	Spline Shaft II	1
165	Plug M18x1.5	2
166	Clutch Fork Shaft (R)	1
167	Gear Box Case (R)	1
168	Pin 12x20	2
169	Seal FB16x24x4	2
170-1	Output Gear Bush Paper Spacer	2
171	Gasket 1	4
172	Clutch Spring	2
173	Spring Guide Bush	2
174	Clutch Bush	2
175	Spring Gasket	2
176	Steel Ball 5	70
177	Circlip 58	2
178	Output Gear	1
179	Intermediate Joint Bush	1
180	Intermediate Joint Bush Composite Bushing	2
181	Circlip 26	2
182	Joint Bush	2
183	Spring Gasket	4
184	Circlip 25	2
185	Washer Ø8	10
186	Output Gear Bush Weldment	2
187	Seal FB42x25x7	2
188	Output Shaft Composite Bushing	4
189	Bolt M8x25 w/glue	12
190	Oil dipstick Assy	1
191	O -Ring 16x1.8	1
192	Tank Cover	1
193	Asbestos Cushion	1
194	Oil Filter	1
195	Tank	1
196	Torsion Spring	1
197	Returning Plate	1
198	Bolt M6x30	1
199	Bolt M6x60	2
200	Tank Fixing Bracket	1

No.	Description	Q'ty
201	Washer Groupware 18	4
202	Connector	4
203	Oil Outlet Pipe	1
204	NPT3/8-M18x1.5	2
205	Pump	1
206	Oil Inlet Pipe	1
207	Bolt M8x55	2
208	Rubber hose B	2
209	Rubber hose A	1
210	Welding Cylinder	1
211	Spindle 2	2
212	Oil Cup 6x1	1
213	Spindle 1	1
214	Pipe Clamp	1
215	Oil Return Pipe	1
216	Bolt M14x1.5	2
217	Washer Groupware 14	1
218	Reversing Valve	1
219	Bolt M8x40	1
220	Pipe Clamp Plate	2
221	Washer 20	2
222	Pipe Plug 19x19	1
223	Combined Sealing Washer	1
224	Bolt M8x25	2
225	Rubber Pad	4
226	Gearshift Panel	1
227	Bolt M8x12	1
228	Bolt M10x35	1
229	Oil Seal FB14x22x7	1
230	Gearshift Lever I	1
231	Gearshift Lever II	1
232	Extension Spring	1
233	Joint Bush	3
234	Adjusting Pad	1
235	Rubber Gasket	2
236	Plug	6
237	Extendable Side (Right)	1
238	Shock Absorber pad	12
239	Panel (Front)	1
240	Extendable Side (Left)	1
241	Panel (Rear) Yellow	1
242	L Pin	6
243	Panel (Bottom)	1

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## Plow Blade (Optional)



## Parts List

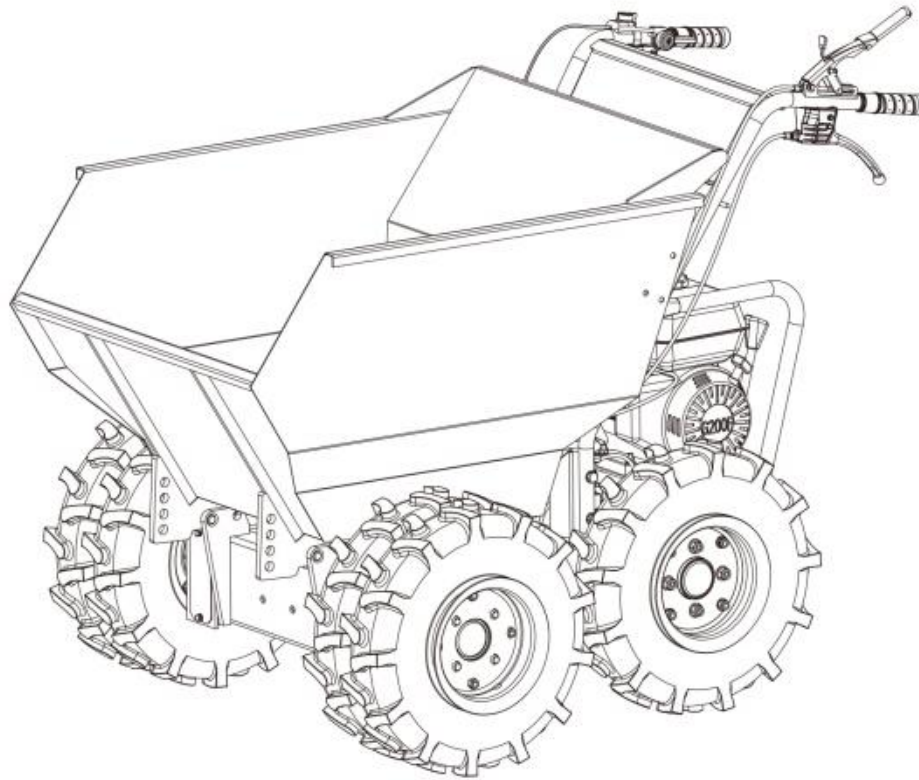
No.	Description	Q'ty
1	Bolt M8×35	6
2	Shave Plate	1
3	Rubber Plate	1
4	Blade Weldment	1
5	Washer8	16
6	Nut M8	13
7	Landing Leg Weldment	2
8	Blade Fixed Bracket Weldment	1
9	Bolt M8×30	4
10	Bolt M20×95	1
11	Washer 20	2
12	Nut M20	1
13	Blade Connecting Bracket Weldment	1
14	Bolt M12×40	4
15	Washer 12	2
16	Washer 12	3
17	Washer 10	4
18	Washer 10	4
19	Pin 10×60	1
20	Curved Support Bracket Weldment	1

No.	Description	Q'ty
21	Bolt M8×50	1
22	Active Connecting Weldment	1
23	Nut M12	2
24	Bolt M10×25	2
25	Bolt M8×35	1
26	Adjusting Rod Weldment B	1
27	Bolt M8×40	1
28	Adjusting Rod Weldment A	1
29	Handle Sleeve 28	2
30	Limiter Rod Wedment	1
31	Bolt M24×110	1
32	Limiter Weldment	1
33	Washer24	1
34	Lock Nut M24	1
35	Spring	1
36	Bridge Pin 2×11×35	1
37	Pin 4×40	1
38	Handle Grip 2	1
39	Bended Plate	1
40	Bolt M10×30	2
41	Handle Sleeve 25	1



Save This Manual for Future Reference

Original Instruction



# Powered Wheelbarrow

## Operator's Manual

**MODEL NUMBER :**      ☐ QTP500NW      ☐ QTP500NW-A

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**



## TABLE OF CONTENTS

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## INTRODUCTION

Your new powered wheelbarrow will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The Engine manufacturer is responsible for all engine-related issues with regards to performance, power rating, specifications,

warranty and service. Please refer to the Engine Manufacturer's owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.		QTP500NW	QTP500NW-A
Engine		196cc, 4.1kW/3600/min	
Transmission		3F+1R	
Load Capacity		500 kg	
Box Length		1050 mm	
Box Width		750 mm	
Box Depth		700 mm	
Sound power level ( LwA )	Measured	98.4 dB(A) $k=2.2$ dB(A)	
	Guaranteed	101 dB(A)	
Sound pressure level		87 dB(A) $k=3$ dB(A)	
Vibrating level on handlebar grips		3.92 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>	
Tire Size		20.32 cm	25.4 cm
Weight		170 kg	180 kg

## RECYCLING AND DISPOSAL



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or check with your local authority or local stores for advice of environmental safe recycling.



## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Caution! Ignoring the safety signs and warnings applied on the machine as well as ignoring the security and operating instructions can cause serious injuries and even lead to death.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Be aware, objects may be thrown while in use.



Keep children and bystanders off and away.



Do not touch parts that are hot from operation. Serious burns may result.



Never start or run the engine inside a closed area.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Always turn off the engine before starting maintenance.



The maximum uphill angle of the machine is 20°. The maximum downhill angle of the machine with the head downward is 6°.



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## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service





on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

## Specific Safety Rules

Thoroughly inspect the area to be worked, keep the working area clean and free of debris to prevent tripping. Operate on a flat level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, and operation, maintenance, repairing or moving.

Keep all bystanders, children, and pets at least 23m (75 feet) away. If you are approached, stop the unit immediately.

Do not mount anything on the dump box and never carry passengers

Never park the machine in a place with unstable ground which could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

**Do not overload the machine capacity. Drive at a safe speed, adjusting the speed to the slope of the land, the surface conditions of the road, and the weight of the load.**

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/

reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground as the machine may tend to skid.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

The maximum uphill angle of the machine is 20°. The maximum downhill angle of the machine with the head downward is 6°.

When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always move in directions parallel with the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on e.g. wet clay.

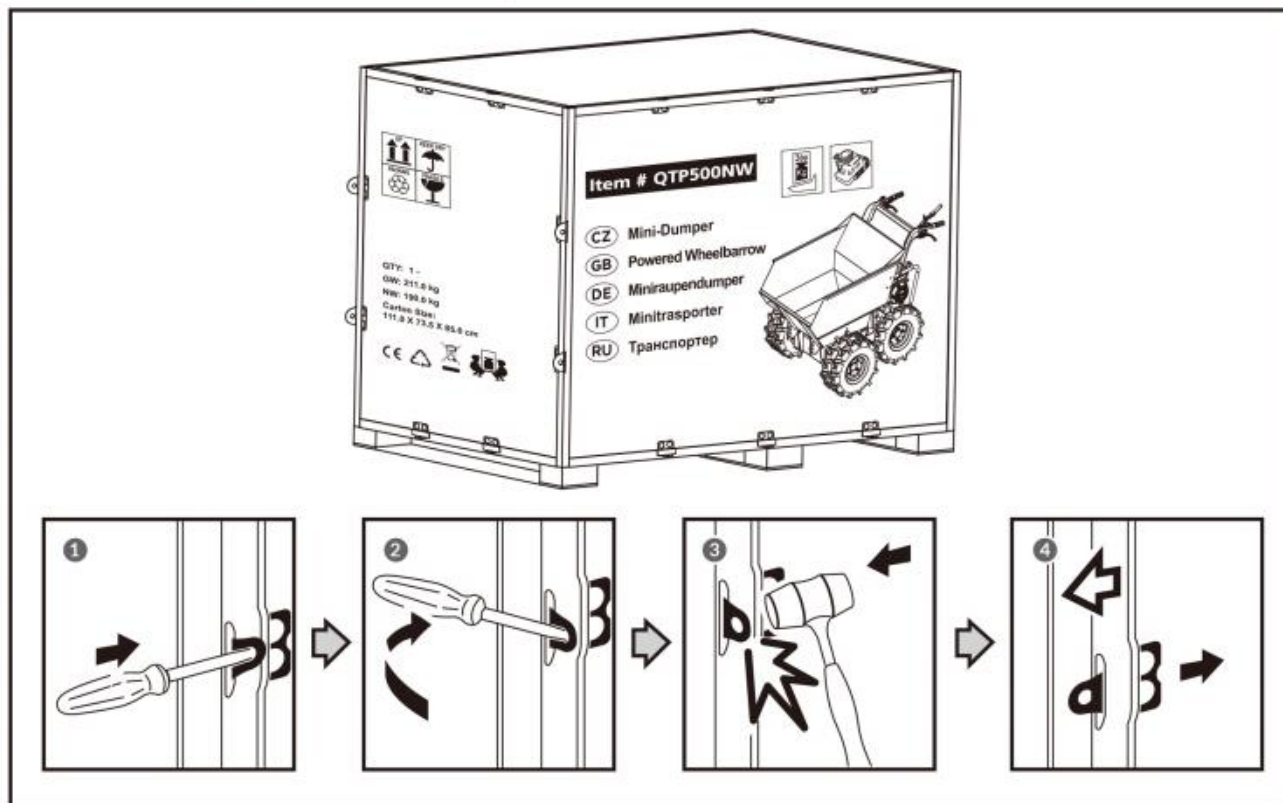




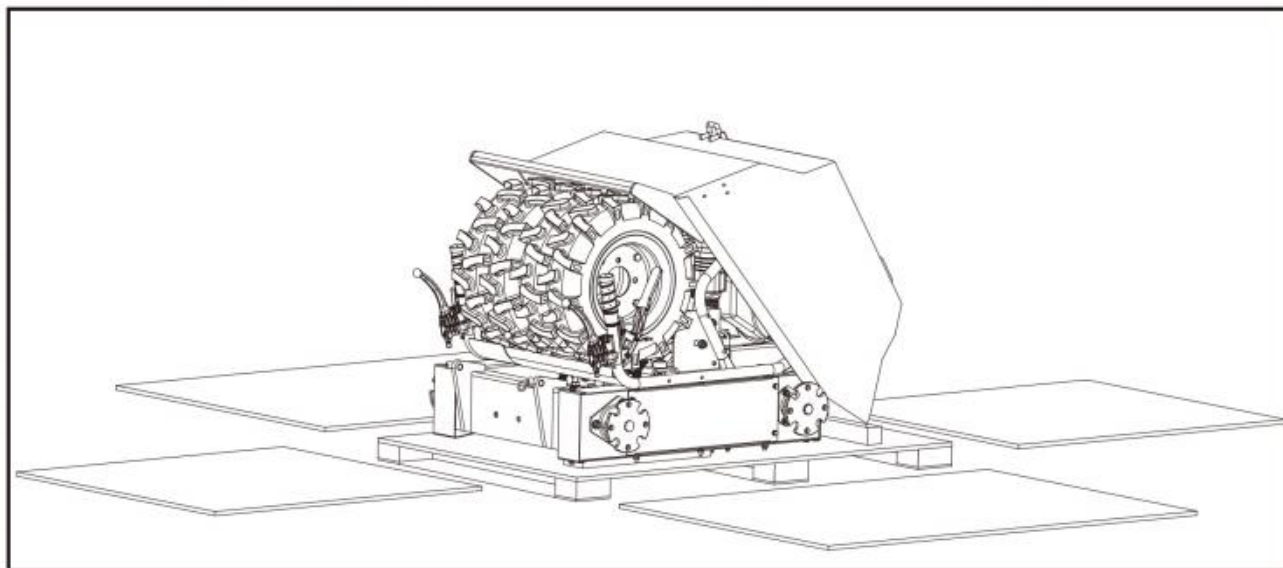
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.



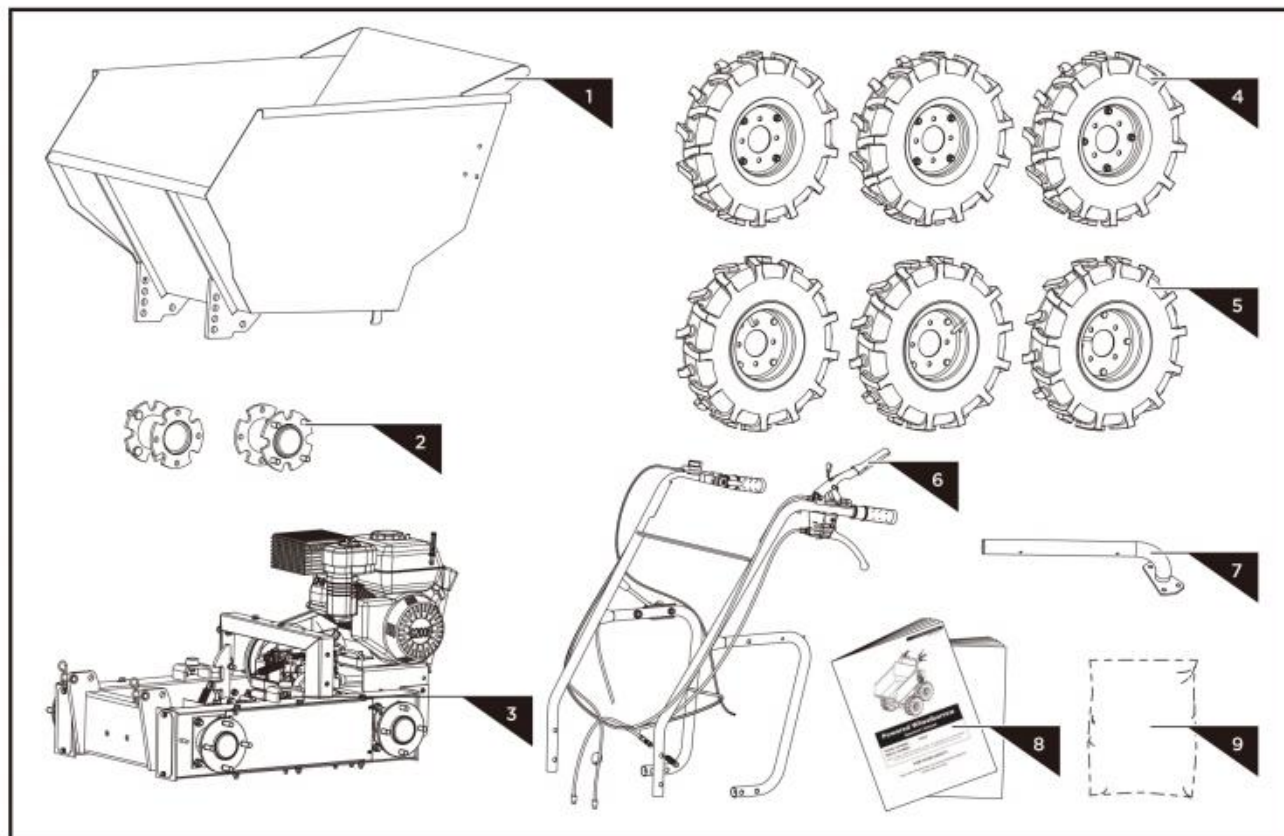
POWERED WHEELBARROW

7

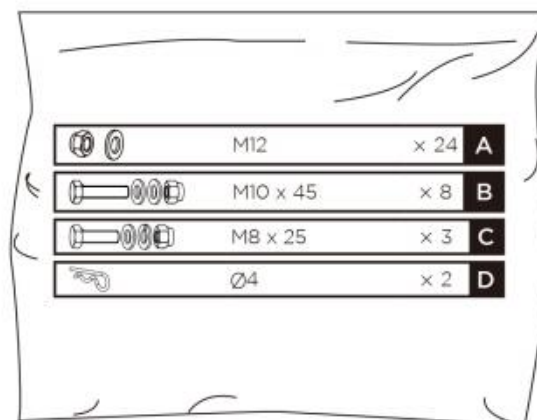


## CONTENTS SUPPLIED

The mini powered wheelbarrow comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Dump Box
2. Welded Flange Plates
3. Main Frame
4. Wheels (Right))
5. Wheels (Left)
6. Handle Frame
7. Box Lifting Handle
8. Operator's Manual & Engine Manual
9. Hardware Bag, including



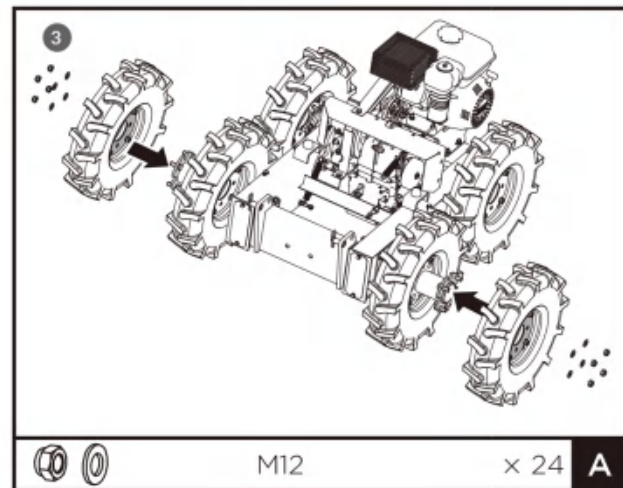
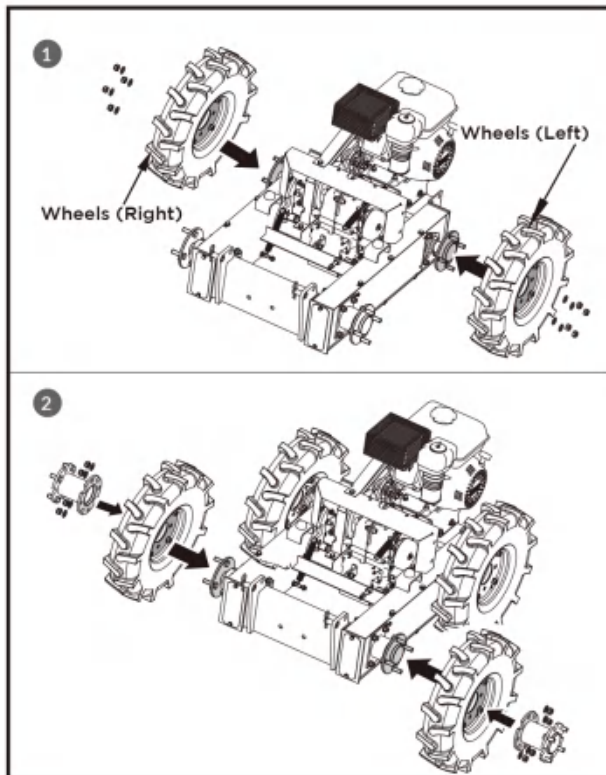


## ASSEMBLY

This mini powered wheelbarrow was partially assembled at the factory. To assemble your machine follow the below instructions.

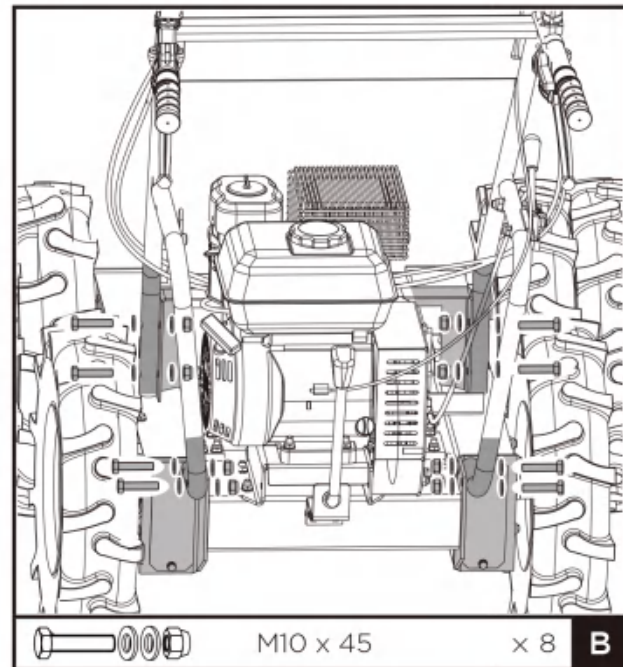
### Wheels Assembly

1. Put a pair of wheels onto the rear wheel axles and make sure the tire valve is facing outwards. Slide the four bolts of each wheel axle through the holes in wheels and secure them with M12 nuts and washers.
2. Attach another pair of wheels to the front wheel axles. Connect the welded flange plates to both wheels by the bolts of wheel axles and secure them together with M12 nuts and washers.
3. Mount the last pair of wheels on outer side of the fixed front wheels to the welded flange plates by M12 nuts and washers.



### Handle Frame Assembly

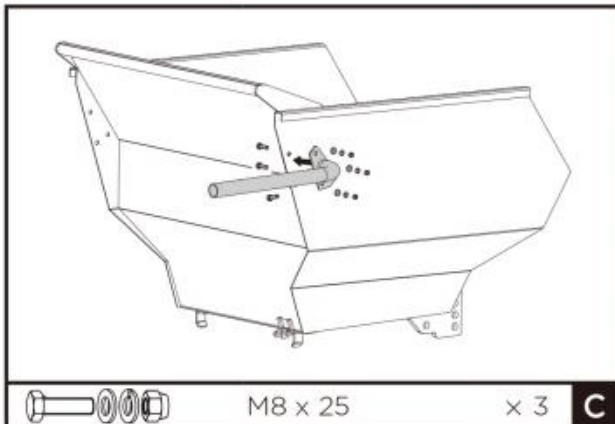
Mount the handle frame assembly to the chassis and secure it with M10X45 bolts, washers and nuts.



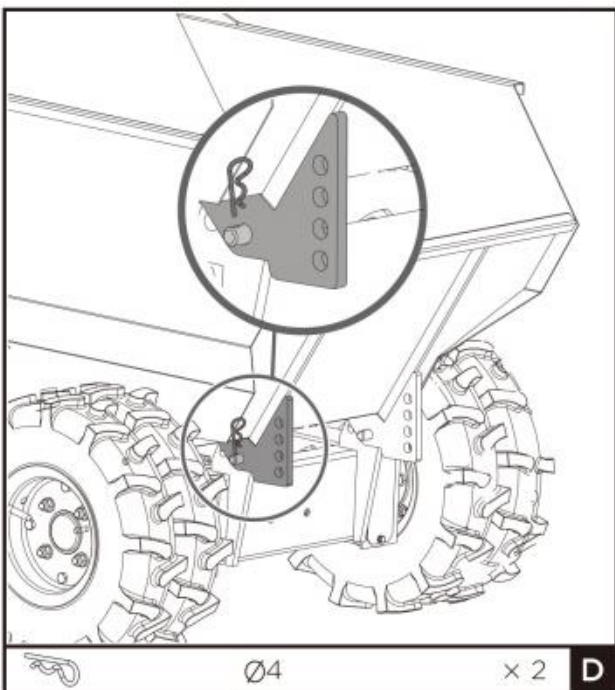
GB

## Dump Box Assembly

1. Attach connecting plate of the box lifting handle to the dump box with three M8x25 bolts, washers and nuts.



3. Install the dump box and fasten the front with two Ø4 R-clips.



## Engine Oil

**OIL HAS BEEN DRAINED FOR SHIPPING.**



**Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.**

Add oil according to **Engine Manual** packed separately with your track dumper.





# KNOW YOUR MACHINE

## Features and Controls

GB

Engine On/Off Switch

Throttle Control

Right Steering Lever

Clutch Control Lever

Left Steering Lever

Dump Box

Gear Selection Lever

Dump Box Release Lever

Dump Box Lifting Handle

Gearbox

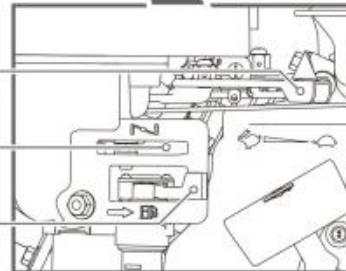
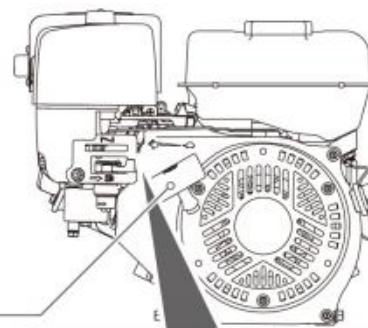
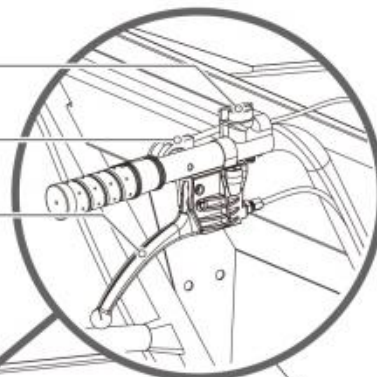
Wheel

Recoil Starter Handle

Throttle Control

Choke Control

Fuel Shut-Off Valve



POWERED WHEELBARROW

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### Engine switch

The engine switch enables and disables the ignition system.

The engine switch must be in the ON position for the engine to run.

Turning the engine switch to the OFF position stops the engine.

### Clutch control lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

### Throttle control

It controls engine speed. Put the throttle control on low speed (L) or high speed (H) or an intermediary position between L and H to increase or decrease the speed of engine.

### Left steering lever

Operate the lever to turn left.

### Right steering lever

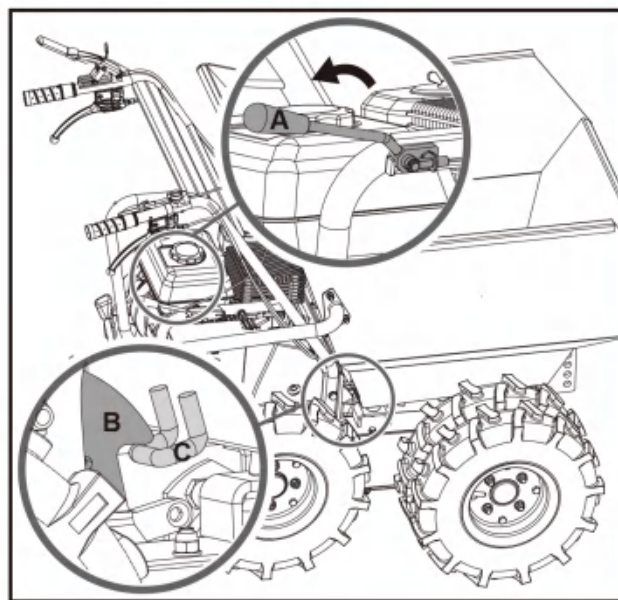
Operate the lever to turn right.

### Gear selection lever

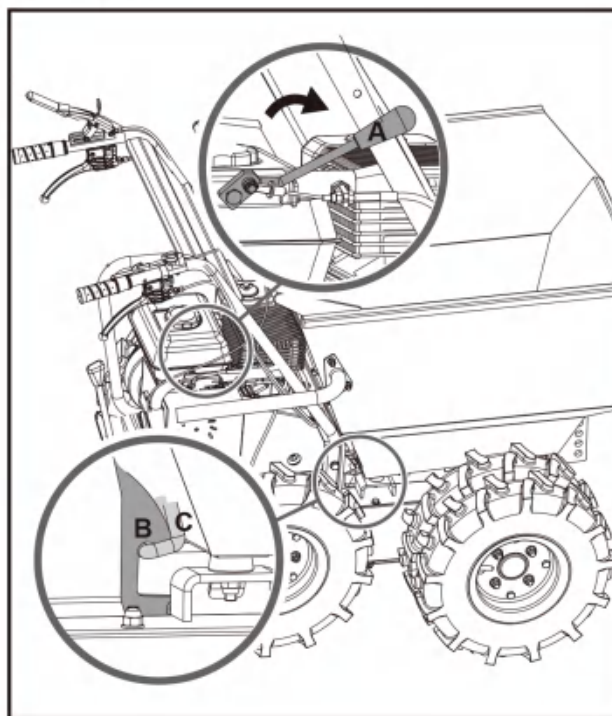
It controls forward or reverse movements of the machine.

### Tipping handle

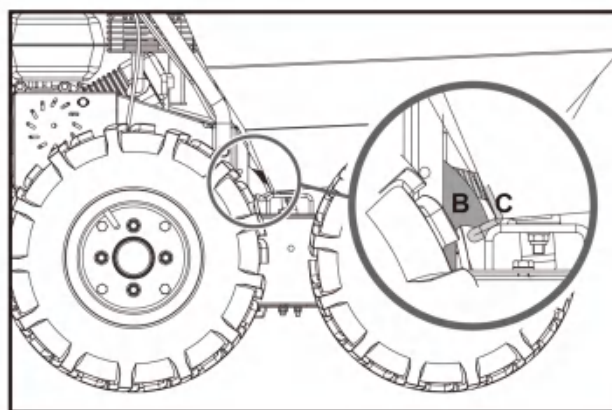
It controls tipping of the dump box. Swing tipping handle A in the direction of the arrow to release limiter B out of hook C. The dump box will be released.



After tipping the load, swing handle A back to reset limiter B into hook C, which will lock the dump box.



*Before you start to use the dumper, please check the dump box to make sure it is locked as shown in the diagram below.*







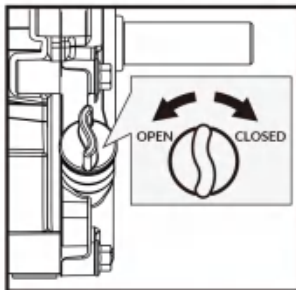
## Operation

### Add Oil To Engine



*The engine is shipped without oil. Do not start the engine before adding oil. Please refer to your engine manual for the proper grade of oil to add.*

1. Make sure the power trackbarrow is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL.** Check engine oil level daily and add as needed.

### Add Gasoline To Engine



*Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.*



*Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.*

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

### IMPORTANT: DO NOT OVERFILL!



*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

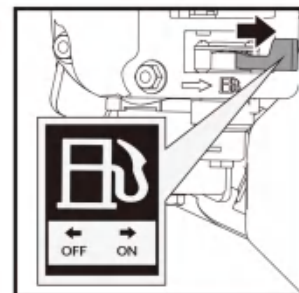
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

### Starting Engine

1. Move the engine switch to the ON position.

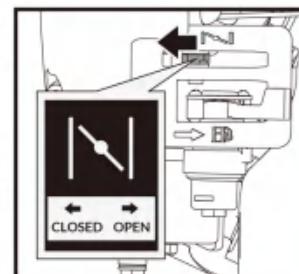


2. Open the fuel shut-off valve.



3. Move the choke lever to the CLOSED position.

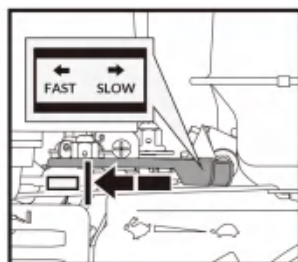
If the engine is hot, closing the choke is not necessary.



GB



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

### Operating

After engine warms up, pull throttle lever to accelerate engine speed.

The powered wheelbarrow has the steering levers on the handlebars and this makes steering very easy. To turn right or left, simply operate the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and that with the empty machine, a light pressure on the lever is all that is needed to turn. While when the machine is loaded, more pressure is required.

The powered wheelbarrow has a maximum capacity of 300kg. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.

Avoid sharp turns and frequent changes of direction while driving on the road, in particular on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the powered wheelbarrow unstable.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the wheels.

### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

### STOP ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🛑) position.



**Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.**



**Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.**



## MAINTENANCE

Maintaining your mini powered wheelbarrow will ensure long life to the machine and its components.

### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the power trackbarrow. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Check the spark plug wire regularly for signs of wear, and replace when needed.



**Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.**

### Adjusting clutch

As clutch wears out, the same lever could have a wider opening, being so uneasy to use. This means that it is necessary to adjust the cable, setting clutch lever on its original position acting on the adjustment device and on counter-nut.

### Adjusting steering

If you have difficulty steering the unit, you will need to adjust the steering levers with the special adjusters. Slacken off the locknut and unscrew the adjusters to eliminate the play in the cable, which can occur after initial use or normal wear. Be very careful not to unscrew

the adjusters too much because this can create another problem: the loss of traction. Remember to tighten the locknut when you have finished.

### Lubrication

The gearbox is pre-lubricated and sealed at the factory.

Check oil level every 50 hours of working. Remove the plug and check, with machine horizontal, oil reaches the two notches. If necessary, add the oil.

Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

Oil must be replaced when hot by unscrewing filler cap and plug equipped with an oil dipstick. When oil is completely drained, replace filler cap and fill up with new oil.

### Tire Pressure

Check the pressure of tires periodically to make sure they are properly inflated. Recommended pressure is 30psi for all the tires.

**Separation of tire and rim parts is possible when they are serviced incorrectly.**

**Do not attempt to mount a tire without the proper equipment and experience to perform the job.**



**Do not inflate the tires above the recommended pressure.**

**Do not weld or heat a wheel and tire assembly. Welding can structurally weaken or deform the wheel. Heating can cause an increase in the air pressure resulting in burst.**

**Do not stand in front or over the tire assembly while inflating.**

### Engine Maintenance

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

GB



## STORAGE

If the mini powered wheelbarrow will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***



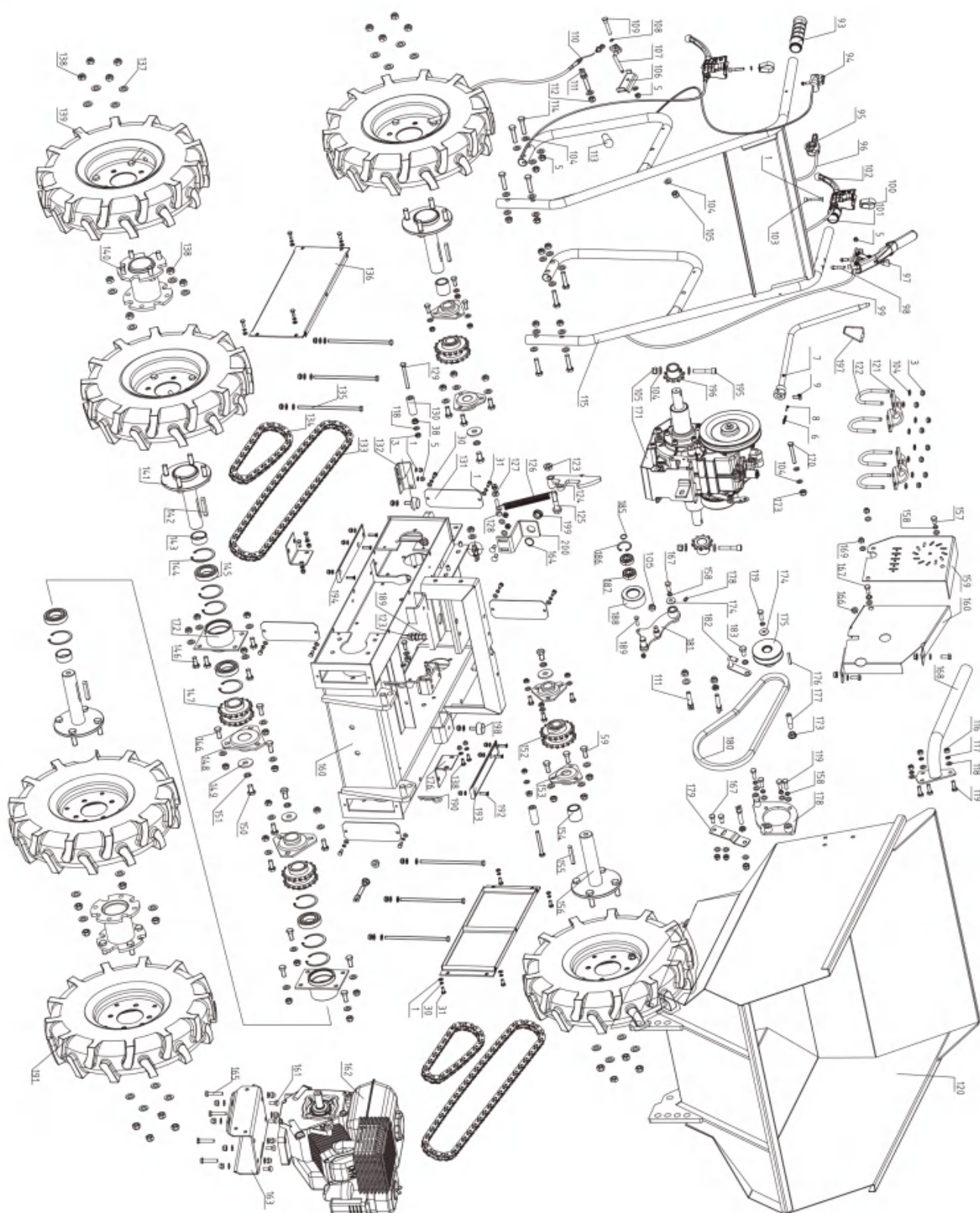


## TROUBLE SHOOTING

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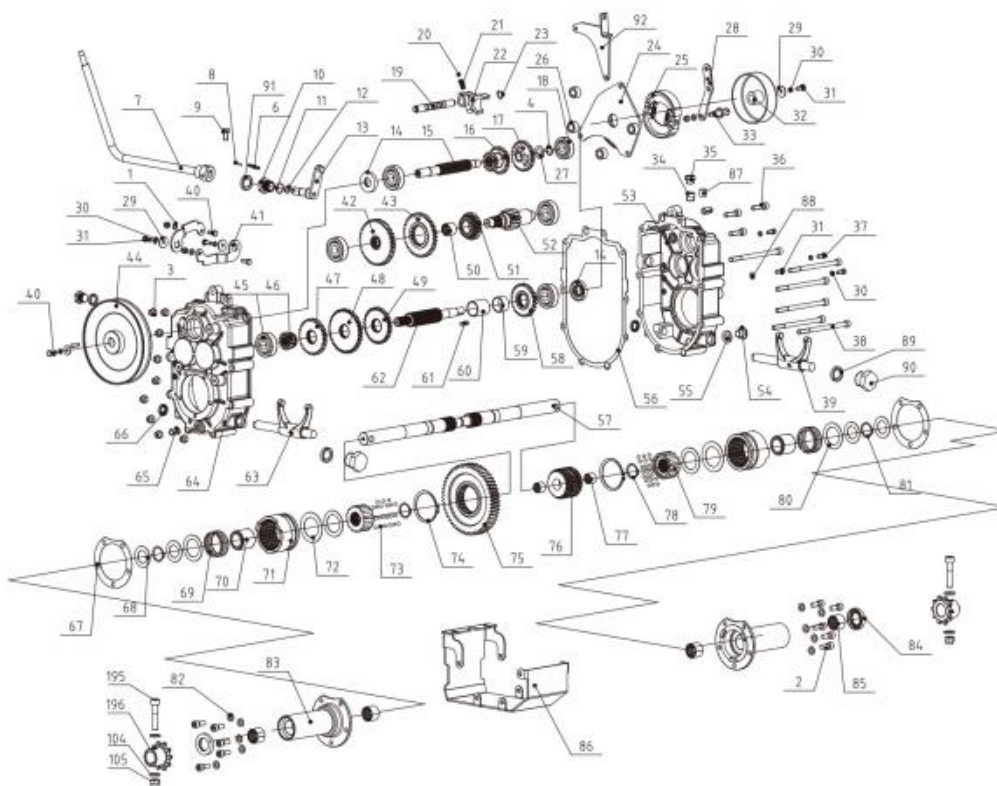
Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"><li>1. Spark plug wire disconnected.</li><li>2. Out of fuel or stale fuel.</li><li>3. Choke not in open position.</li><li>4. Blocked fuel line.</li><li>5. Fouled spark plug.</li><li>6. Engine flooding.</li></ol>	<ol style="list-style-type: none"><li>1. Attach spark plug wire securely to spark plug.</li><li>2. Fill with clean, fresh gasoline.</li><li>3. Throttle must be positioned at choke for a cold start.</li><li>4. Clean the fuel line.</li><li>5. Clean, adjust gap, or replace.</li><li>6. Wait a few minutes to restart, but do not prime.</li></ol>
Engine runs erratically.	<ol style="list-style-type: none"><li>1. Spark plug wire loose.</li><li>2. Unit running on CHOKE.</li><li>3. Blocked fuel line or stale fuel.</li><li>4. Vent plugged.</li><li>5. Water or dirt in fuel system.</li><li>6. Dirty air cleaner.</li><li>7. Improper carburetor adjustment.</li></ol>	<ol style="list-style-type: none"><li>1. Connect and tighten spark plug wire.</li><li>2. Move choke lever to OFF.</li><li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li><li>4. Clear vent.</li><li>5. Drain fuel tank. Refill with fresh fuel.</li><li>6. Clean or replace air cleaner.</li><li>7. Refer to Engine Manual.</li></ol>
Engine overheats.	<ol style="list-style-type: none"><li>1. Engine oil level low.</li><li>2. Dirty air cleaner.</li><li>3. Air flow restricted.</li><li>4. Carburetor not adjusted properly.</li></ol>	<ol style="list-style-type: none"><li>1. Fill crankcase with proper oil.</li><li>2. Clean air cleaner.</li><li>3. Remove housing and clean.</li><li>4. Refer to Engine Manual.</li></ol>
Machine does not move while engine is running.	<ol style="list-style-type: none"><li>1. Gear is not properly selected.</li><li>2. Driving tracks not tight enough.</li></ol>	<ol style="list-style-type: none"><li>1. Ensure gear lever is not in-between two different gears.</li><li>2. Tighten driving tracks.</li></ol>

## PARTS SCHEDULE





## Gearbox

**GB**

## Parts List

No.	Description	Q'ty
1	Washer 6	3
2	Screw M8x25	10
3	Nut M8	9
4	Circlip 15	1
5	Nut M6	15
6	Pin 5x30	1
7	Gearshift Lever	1
8	Pin 3x30	1
9	Bolt M8x12	1
10	Orientation Nut	1
11	Washer GroupwareD20	1
12	O-Ring 11.2x1.8	1
13	Lever Mount Bracket	1
14	Seal FB17x40x7	2
15	Spline Shaft I	1
16	Duplex Slip Gear	1
17	Gear	1
18	Bearing 6302	1

No.	Description	Q'ty
19	Gearshift Fork Guide Pin	1
20	Spring	1
21	Steel Ball 6	1
22	Gearshift Fork	1
23	Circlip 12	1
24	Rivet Assembly	1
25	Brake Disk	1
26	Joint Bush	3
27	Wearing Pad	1
28	Brake Pull Plate	1
29	Washer6	4
30	Washer6	7
31	Bolt M6x16	4
32	Expansion Brake Cover	1
33	Stud	1
34	Vent-Plug Bushing	1
35	Vent-Plug	1
36	Screw M8x30	3

**POWERED WHEELBARROW****19**



No.	Description	Q'ty
37	Expansion Brake Lock Bolt	3
38	Screw M8x130	6
39	Clutch Fork Shaft (L)	1
40	Bolt M6x20	3
41	Swing Lever	2
42	Gear III -4	1
43	Gear III -3	1
44	Large Belt Pulley	1
45	Bearing 6303	5
46	Gear II -5	1
47	Gear II -4	1
48	Gear II -3	1
49	Gear II -2	1
50	Gear III -2 Bush	1
51	Gear III -2	1
52	Gear Shaft III	1
53	Gear Box Case ( L)	1
54	Plug M14x1.5	2
55	Combined Sealing Washer 14	2
56	Paper Gasket for Housing	1
57	Output Shaft	2
58	Gear II -1	1
59	Bush 2	1
60	Bush 1	1
61	Key A5x20	2
62	Spline Shaft II	1
63	Clutch Fork Shaft (R)	1
64	Gear Box Case ( R)	1
65	Pin 12x20	2
66	Seal FB16x22x4	2
67	Output Shaft Bush Gasket	2
68	Gasket 1	4
69	Clutch Spring	2
70	Spring Guide Bush	2
71	Clutch Sleeve	2
72	Spring Gasket	2
73	Steel Ball 5	56
74	Circlip 58	2
75	Output Gear	1

No.	Description	Q'ty
76	Intermediate Joint Bush	1
77	Intermediate Joint Bush Composite Bushing	2
78	Circlip 26	2
79	Joint Bush	2
80	Spring Gasket	4
81	Circlip 25	2
82	Washer 8	10
83	Output Shaft Bushing	2
84	Seal FB25x42x7	2
85	Output Shaft Composite Bushing	4
86	Guard Cover	1
87	Spongy Cushion	1
88	Combined Sealing Washer 6	1
89	Combined Sealing Washer 18	2
90	Plug Screw M18x1.5	2
91	Seal FB14x24x7	1
92	Clutch Cable Holder	1
93	Handle Sleeve	2
94	ON/OFF Switch	1
95	Throttle Lever	1
96	Throttle Cable	1
97	Clutch Control Lever	1
98	Screw M6x55	1
99	Clutch Control Cable	1
100	Hoop	2
101	Right/Left Steering Cable	2
102	Down Lever 2	2
103	Screw M6x55	2
104	Washer 10	45
105	Lock nut M10	16
106	Cable Plate	1
107	Rocker Lever	1
108	Circlip D8	1
109	Rockshaft	1
110	Dump Box Cable	1
111	Cable Fixed Pin (Long)	4
112	Thin Nut M10	1
113	Taper Knob	1
114	Bolt M10X45	8



No.	Description	Q'ty
115	Handle Frame Assembly	1
116	Flange Nut M8	6
117	Washer D8	8
118	Washer D8	39
119	Bolt M8X25	7
120	Dump Box	1
121	Axle Pressing Plate	2
122	U-Bolt	4
123	Flange Nut M12	3
124	Limiting Plate	1
125	Bolt M12x60	1
126	Spring	2
127	Flange Nut M8	6
128	Bolt M8X50	1
129	Bolt M8X75	2
130	Chain Guide Posts	2
131	End Cover	4
132	Cable Bracket	1
133	Chain 10B-1-93	2
134	Chain 10B-1-26	2
135	Bolt M8x175	6
136	Cover Weldment	2
137	Washer D12	26
138	Lock Nut M12	25
139	Left Wheel	4
140	Welded Flange Plates	2
141	Front Wheel Axle	2
142	Flat Key A10x60	2
143	Bush 1	2
144	Circlip D62	8
145	Bearing 60072Rz	4
146	Bolt M10x25	26
147	Front Chainwheel	2
148	Bearing 207	2
149	Washer 40x13.5x4	4
150	Bolt M12x20	4
151	Spring Washer D12	4
152	Rear Chainwheel	2
153	Bearing 205	2

No.	Description	Q'ty
154	Bush 2	2
155	Flat Key A8x60	2
156	Rear Wheel Axle	2
157	Bolt M8x16	1
158	Spring Washer D8	8
159	Rear Belt Guard	1
160	Front Belt Guard	1
161	Square Neck Bolt	6
162	Engine	1
163	Engine Bracket	1
164	Circlip D22	1
165	Bolt M8x40	8
166	Flange Nut M8	6
167	Bolt M8x20	13
168	Dump Box Lifting Handle	1
169	Lock Nut M8	28
170	Screw M8x60	1
171	Gearbox Assembly	1
172	Bearing Block	1
173	Flange Nut M10	4
174	Wide Washer D8	6
175	Small Pulley	1
176	Flat Key B5x40	1
177	Belt Shaft	1
178	Engine End Plate	1
179	Pull Plate	1
180	B-Belt	1
181	Tensioner Pulley Bracket	1
182	Belt Guide Weldment	1
183	Bolt M10x20	6
184	Oil Nipple M6	1
185	Circlip 15	1
186	Circlip 35	1
187	Bearing 6202	2
188	Tensioner Pulley	1
189	Bolt M6x25	1
190	B-Pin $\phi$ 4	2
191	Right Wheel	3
192	Screw M6X20	6

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No.	Description	Q'ty
193	Chain Pad (Right)	1
194	Chain Pad (Left)	1
195	Screw M10x50	2
196	Sprocket	2
197	Lever Knod	1
198	Rubber Bolt	2
199	Bush	1
200	Fixing Bracket	1



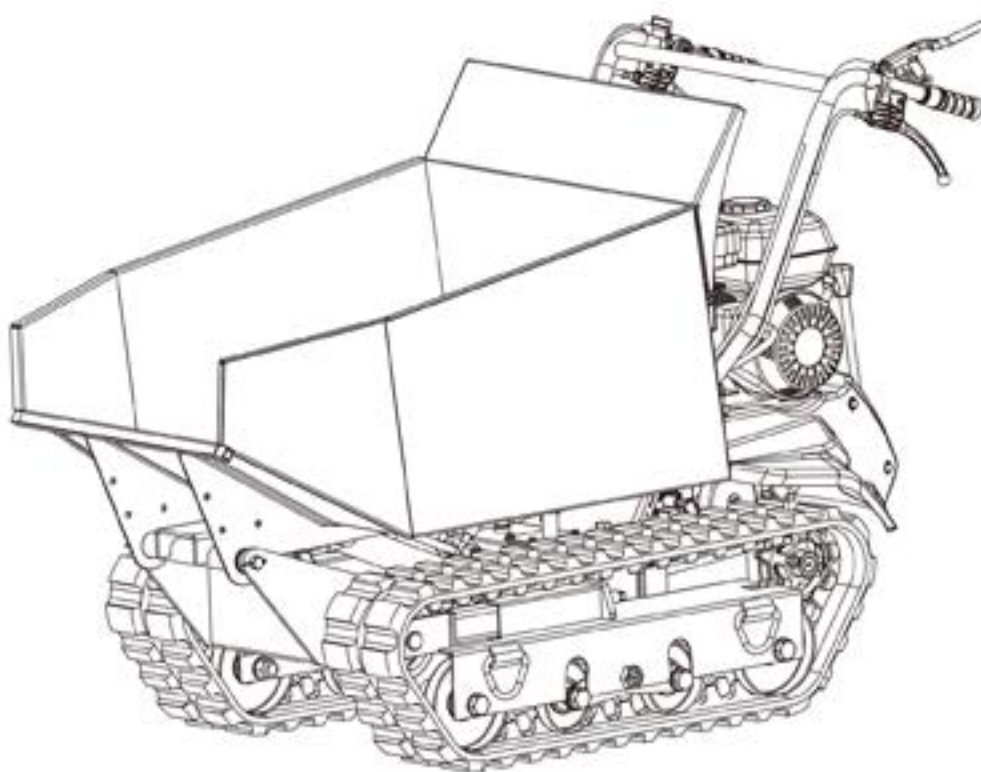
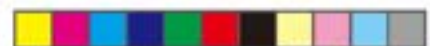


**GB**

**POWERED WHEELBARROW**

**23**





# Mini Tracked Dumper

## Operator's Manual

**MODEL NUMBER :** ☐ QTP501C    ☐ 09737    ☐ 09737A

**SERIAL NUMBER :**

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE**



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## INTRODUCTION

Your new mini tracked dumper will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The four-speed gearbox, three forward and one reverse, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the **Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

## Specifications

Item No.	09737	QTP501C	09737A
Engine	4800W	4800W	6615W
Transmission	6 Forward / 2 Reverse		
Load Capacity	500 kg		
Box Length	950 mm		
Box Width	680 mm		
Box Depth	465 mm		
Track Width	180 mm		
Pump Flow	9 L/min		
Sound power level	101 dB(A) k=3 dB(A)		
Sound pressure level	88 dB(A) k=3 dB(A)		
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>	
	Right	11.3 m/s <sup>2</sup> k=1.5 m/s <sup>2</sup>	
Weight	250.0 kg	260.0 kg	



## ENVIRONMENTAL



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling center and disposed of in an environment-friendly safe way.

## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Do not touch parts that are hot from operation. Serious burns may result.



Keep your hands clear from all rotating parts.



Never start or run the engine inside a closed area.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Be aware, objects may be thrown while in use.



Tipping hazard!



Keep your feet and hands away from moving parts. Moving parts can crush or cut.



Always turn off the engine before starting maintenance.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



The maximum longitudinal climbing angle should not exceed 20 degrees.



Do not allow anyone sitting or standing in the hopper while driving.



Keep children and bystanders off and away.

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## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service.





on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

#### Engine Safety

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

#### Fuel Safety

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 12 mm below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

Thoroughly inspect the area to be worked. Keep the working area clean and free of debris to prevent tripping. Operate on flat, level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintenance, repair, or relocation.

Keep all bystanders, children, and pets at least 23m away. If you are approached, stop the unit immediately.

Do not mount anything on the hopper and never carry passengers.

Never park the machine in a place with unstable ground that could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

Do not overload the machine capacity. Always drive at a safe speed, and adjust the speed to the slope of the land, the surface conditions of the road, and the weight of the load.

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground, as the machine may tend to skid.

**Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.**

Never operate the machine on slopes where angle is over 20°.

When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always operate the machine straight up or down slopes, never drive sideways or across the slope. Do not shift gears on slopes.

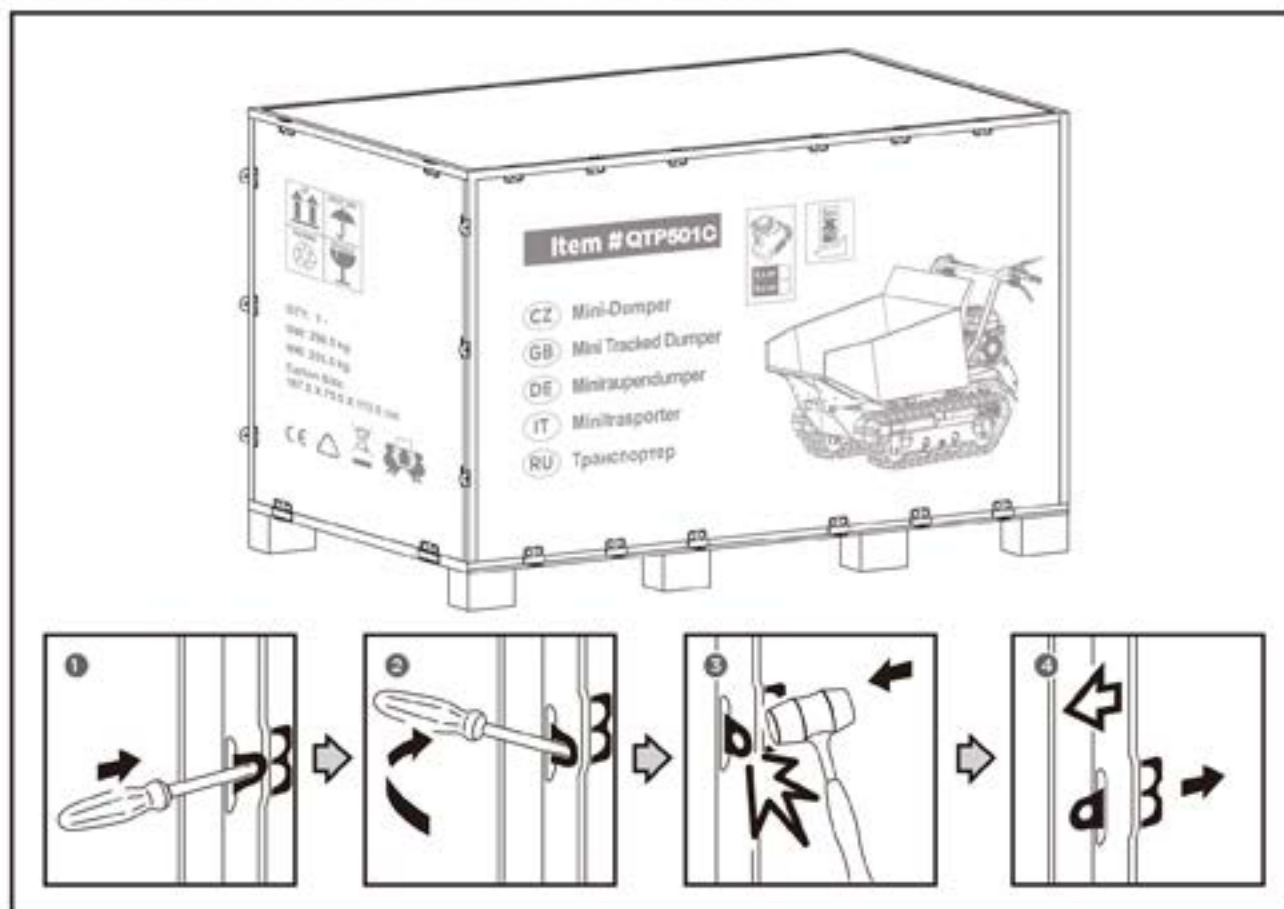
When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on unstable ground, such as wet clay or soil.



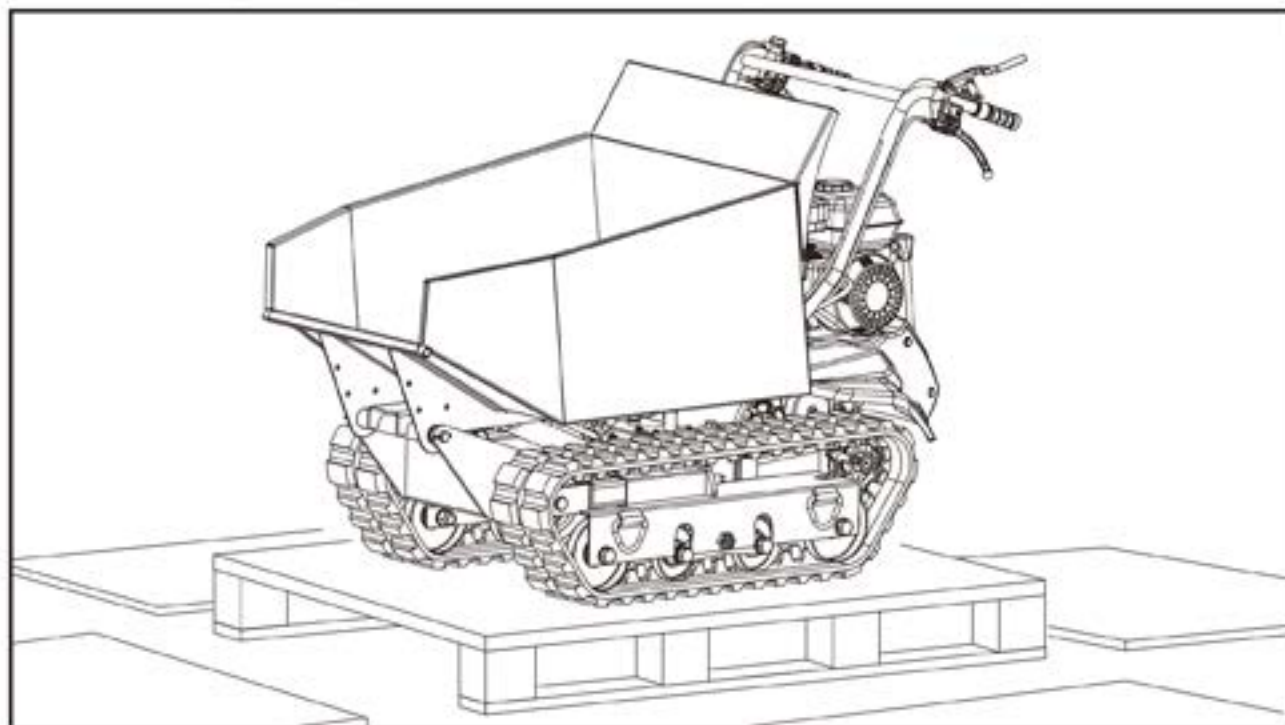
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.



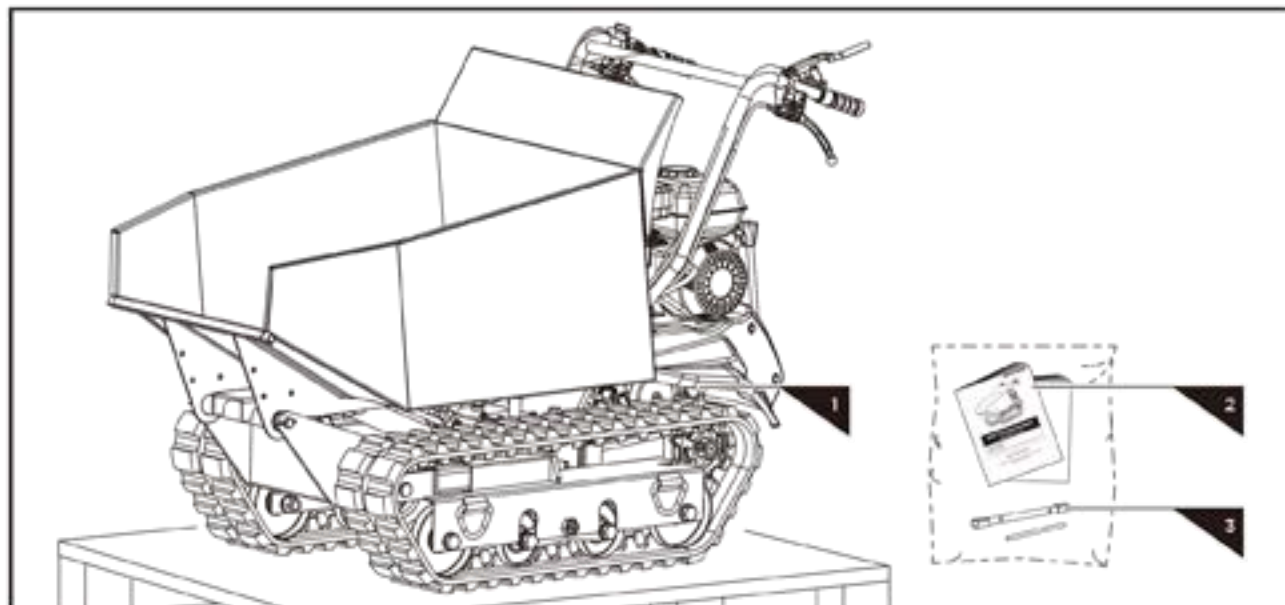
MINI TRACKED DUMPER

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## CONTENTS SUPPLIED

The mini tracked dumper comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Machine

2. Operator's Manual & Engine Manual

3. Tools for Spark Plug Assembly



## KNOW YOUR MACHINE

### Features and Controls

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Engine Switch

Throttle Control

Right Steering Lever

Clutch Control Lever

Left Steering Lever

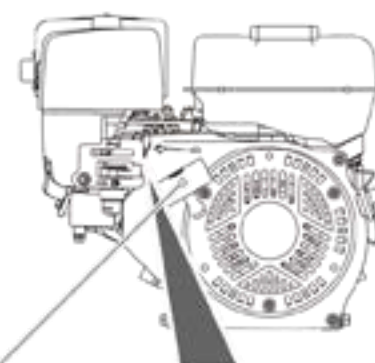
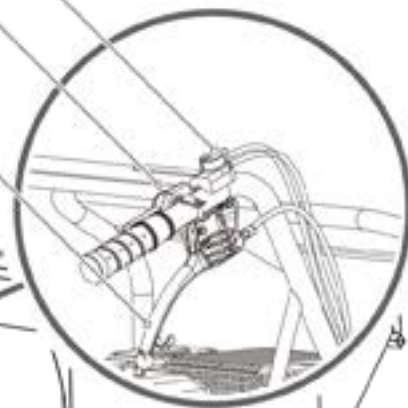
Hydraulic Tipping Handle

Gear Selection Lever

High/Low Speed  
Shifting Handle

Track

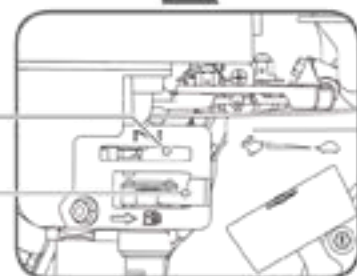
Hopper



Recoil Starter Handle

Choke Control

Fuel Shut-Off Valve



MINI TRACKED DUMPER

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### Gear Selection Lever

The gear selection lever has 4 positions: 3 forward speeds and 1 reverse for both high and low speed. To change speeds, move the speed shift lever to the desired position. The lever locks in a notch at each speed selection.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the mini tracked dumper.**

Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the mini tracked dumper.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

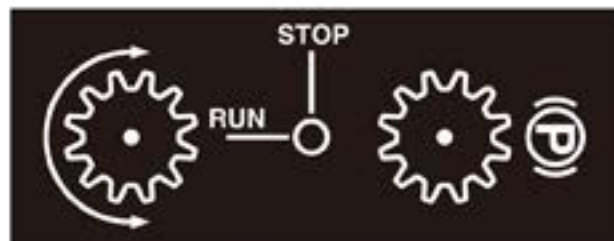
If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**

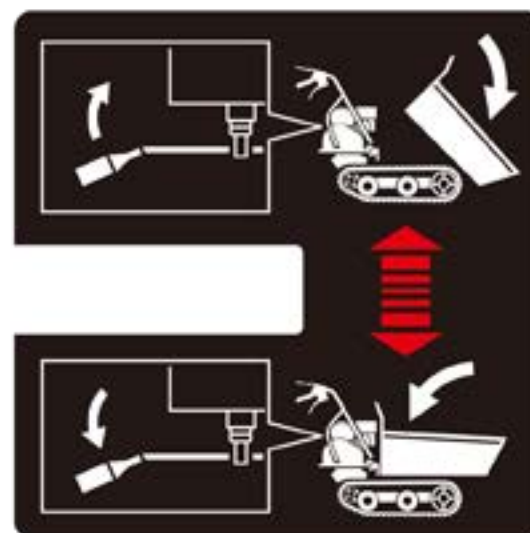
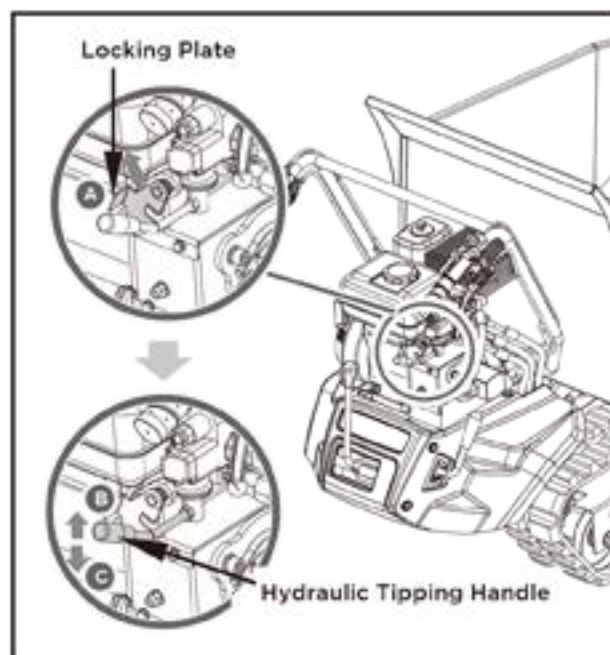


### Hydraulic Tipping Handle

Using your left hand, pull the locking plate up to release the tipping handle, and hold in position.

To raise the hopper, pull the tipping handle upwards (as Ill. B in the figure) until the hopper has reached the desired position. To stop raising the hopper, simply release the tipping handle and return the locking plate to its original position.

To lower the hopper, first pull the locking plate up with your left hand to release the tipping handle, and then pull the tipping handle down (as Ill. C in the figure) with the right hand. When the hopper is lowered to the original position, release the tipping handle back to its original position and lock securely with the locking plate.







### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The Recoil Starter Handle is used to start the engine.



### Fuel Shut-Off Valve

The fuel shut - off has two position.

CLOSED (B) - use this position to service, transport, or store the unit.



OPEN (B) - use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST , SLOW , and STOP positions.

The throttle control will shut off the engine when it is moved to the STOP position.

### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED  and CHOKE OPEN  positions.



**Never use choke to stop engine.**

### Clutch Control Lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

### High / Low Speed Shifting Handle

High speed mode is preferred in good driving conditions such as good weather and stable ground. Otherwise, use low speed mode.

Pull the speed shifting handle backward to enable high speed mode and push it forward to switch to low speed mode.



## Operation

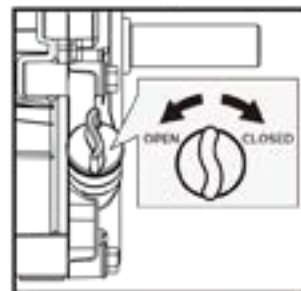
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### Add Oil To Engine



**No oil in the engine originally, but a bottle of engine oil is in scope of delivery. Don't start the engine before adding oil.**

1. Make sure the mini tracked dumper is on a flat, level surface.



2. Remove the oil fill cap/dipstick to add oil.

3. Using a funnel, add oil up to the **FULL** mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL. Check engine oil level daily and add as needed.**

### Add Oil To Engine



**Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.**



**Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.**

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

**IMPORTANT: DO NOT OVERFILL!**

*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

**Starting Engine**

1. Move the engine switch to the ON position.



2. Open the fuel shut-off valve.



3. Move the choke lever to the CLOSED position.  
If the engine is hot, closing the choke is not necessary.



4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

**Operating**

After the engine warms up, move the throttle lever to accelerate engine speed.

Engage the required gear and slowly squeeze the clutch control lever. If the gear does not engage immediately, slowly release the clutch lever and try again. In this way the mini tracked dumper will start moving.

The mini tracked dumper has the steering levers on the handlebars, which makes steering very easy. To turn right or left, simply pull the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and the load. With an empty machine, a light pressure on the lever is all that is needed to turn. When the machine is fully loaded, more pressure is required.

The mini tracked dumper has a maximum capacity of 1100 LBS. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.





Avoid sharp turns and frequent changes of direction while driving on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Even though the unit has rubber tracks, remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the mini tracked dumper unstable.

Please note that as this is a tracked vehicle, it is subject to a considerable pitching movement when passing over bumps, holes and steps.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the tracks.

#### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

#### Stop Engine

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🔒) position.



**Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.**



**Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.**

## MAINTENANCE

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Maintaining your mini tracked dumper will ensure long life to the machine and its components.

#### Preventive Maintenance

1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the mini tracked dumper. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Replace the spark plug wire.



**Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.**

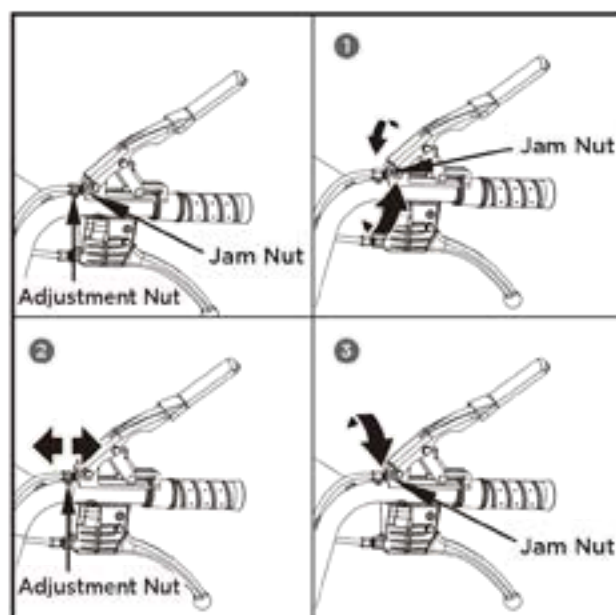
#### Adjusting Clutch

When the clutch begins to show wear, the handle reach will become wider, making it more difficult to reach. Follow these steps to return the clutch lever back to its original position.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.



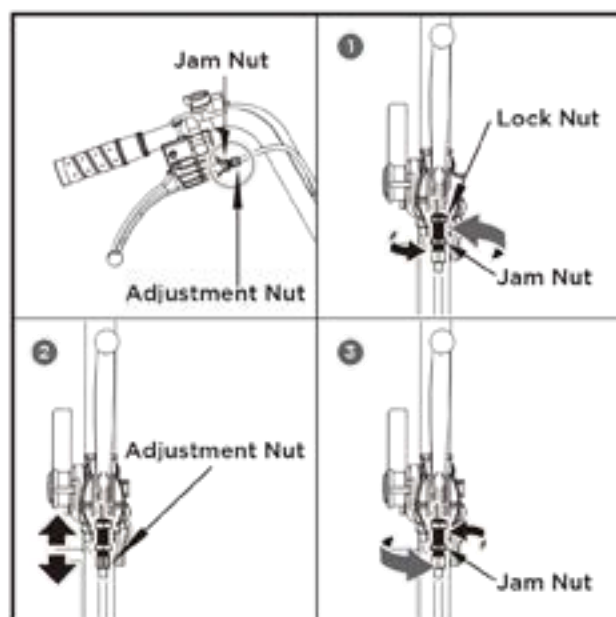
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



### Adjusting Steering

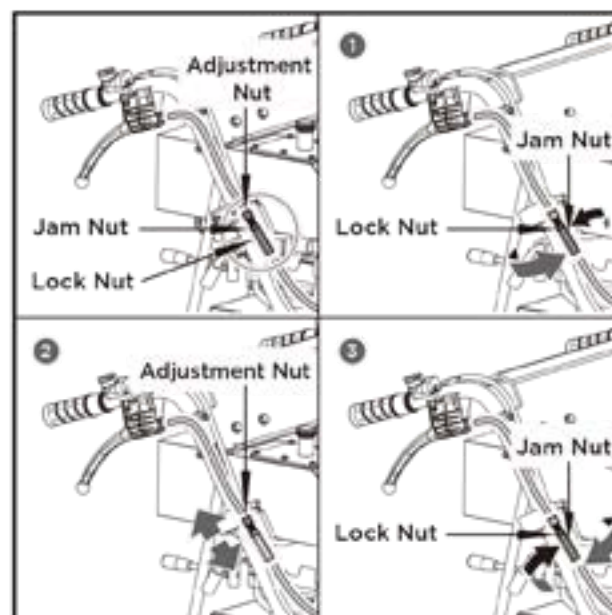
If steering becomes difficult to engage follow these steps to adjust the cable tension.

1. Loosen the jam nut by turning it counter clockwise with 10 mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



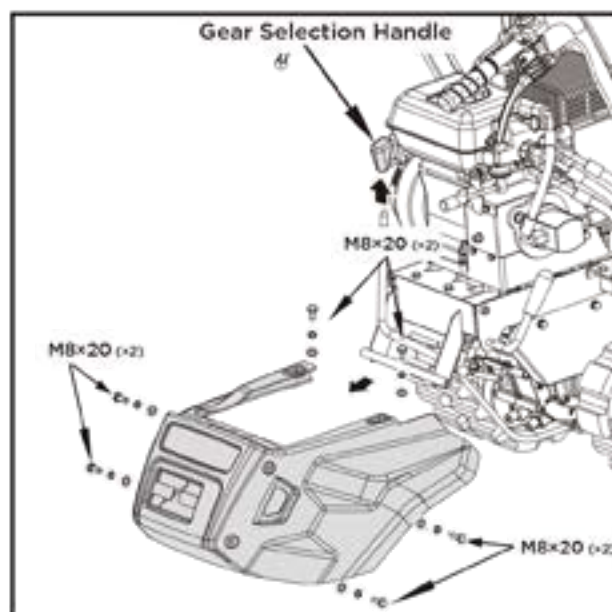
If the above adjustment does not create enough cable tension, follow the steps below:

1. Loosen the jam nut by turning it counter clockwise with 12mm wrench.
2. Tighten or loosen the cable by turning the cable adjustment nut clockwise or counter clockwise with 10 mm wrench until you have reached your required tightness.
3. Once tightness is set, return the jam nut against the handle to hold the cable in place.



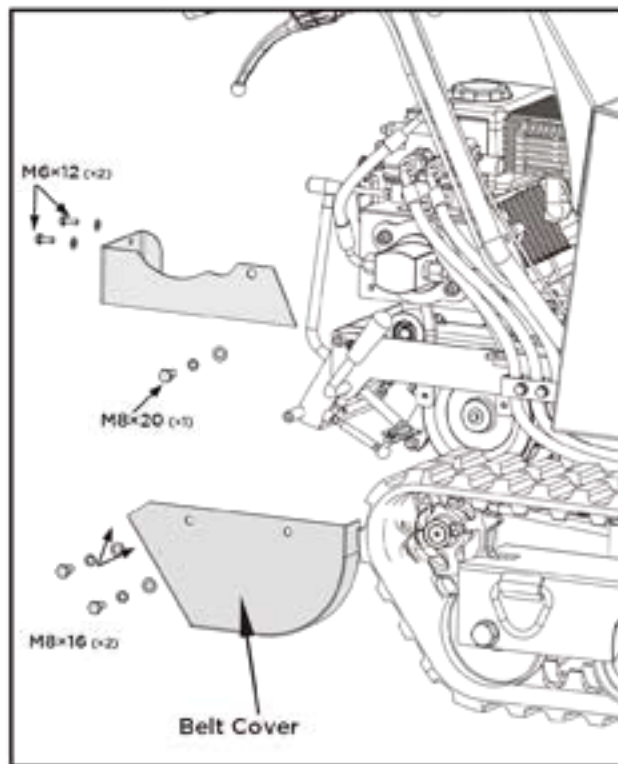
### Replacing Drive Belt

Remove the knob of the gear selection handle. Loosen the six M8x20 screws and washers and take off the guard.





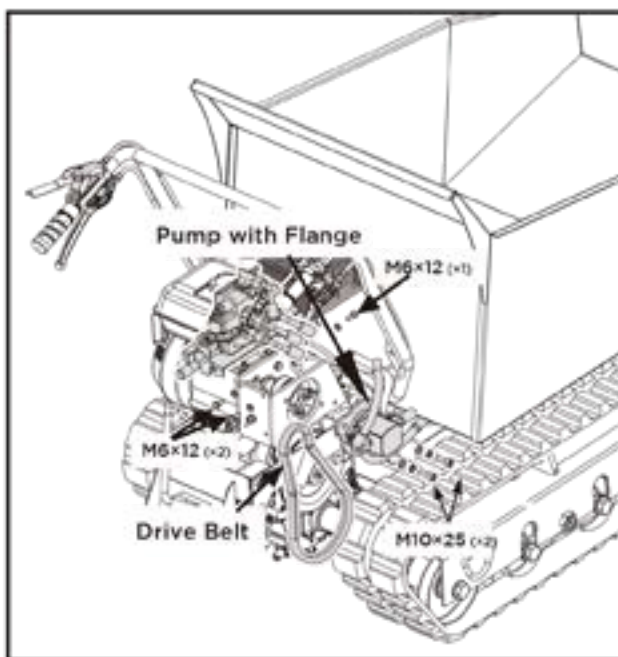
Remove all the screws and washers from both belt covers and take off the covers.



Dismount the two M10x25 bolts and washers and remove the pump with flange.

Dismount the three M6x12 screws and washers and remove the hydraulic valve and its mounting plate.

Turn the gearbox pulley and pull out the drive belt.



## Lubrication

### General Lubrication

Lightly lubricate all moving parts of the machine at end of the season or every 25 operating hours.

### Gearbox Lubrication

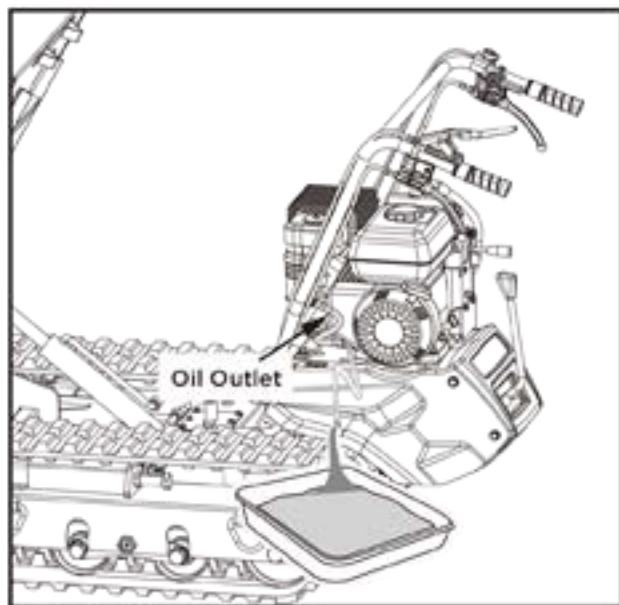
The gearbox is pre-lubricated and sealed at the factory. Unless there is evidence of leakage or service has been performed on the gearbox, no additional lubricate should be required until 50 hours use.

After first 50 hours use, change all the gear oil. Capacity is 1.5L.

For future use, check the oil level after every 50 hours of use. If you remove the oil level plug and no oil flows out, please add oil and then screw the oil level plug.

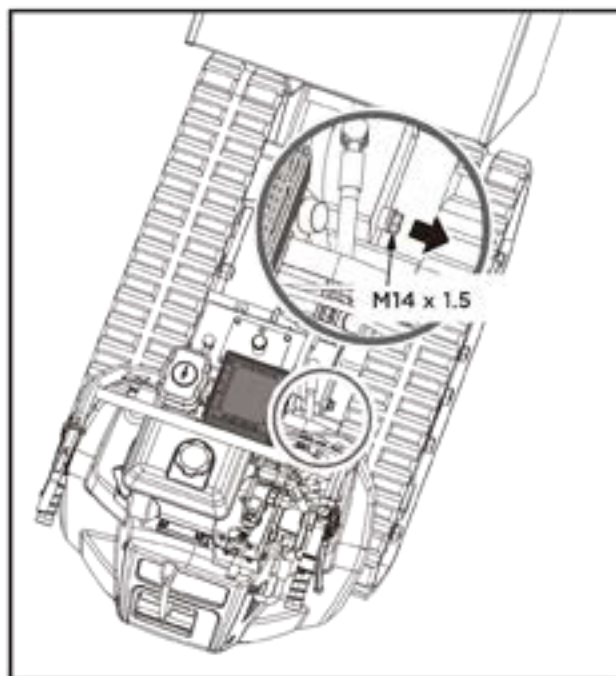
Gear oil GL-5 or GL-6, SAE80W-90 is recommended. Do not use synthetic oil.

When replacing gear oil, the engine must be stopped and still warm. Unscrew the filter cap and the drain plug. When oil is drained, replace the drain plug, fill up with fresh oil, and then replace the filter cap.

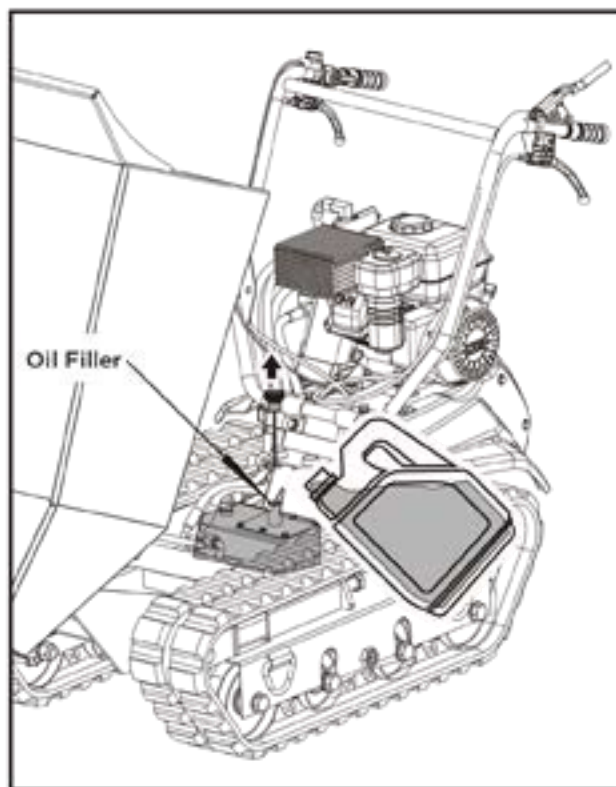


## Hydraulic Oil

Unscrew the locking nut to drain the oil into the pan.



Remove the oil dipstick and add the oil. The recommended hydraulic oil is 10W AW32, ASLE H-150, or ISO 32. Oil capacity of the hydraulic system is 3.5L.

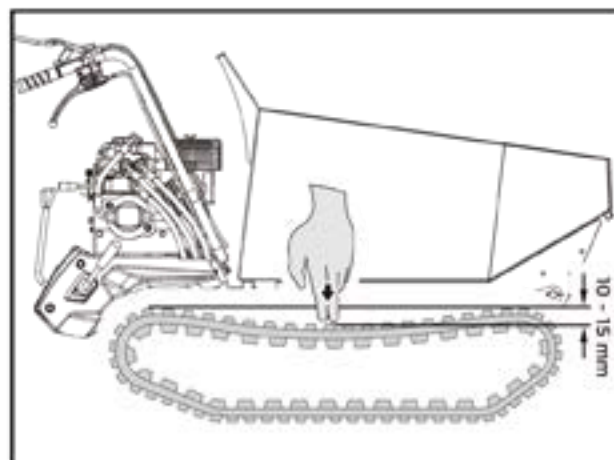


## Tightening Tracks

With use, tracks tend to loosen. When operating with loose tracks, they tend to slip over the driving wheel causing it to jump its housing, thus damaging wear to the housing.

To check track tightness, proceed as follows.

1. Set the machine on a flat surface with compact ground, or on asphalt or pavement.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.
3. Measure the track midline vs. the horizontal line. The reading must not be more than 10 - 15 mm.



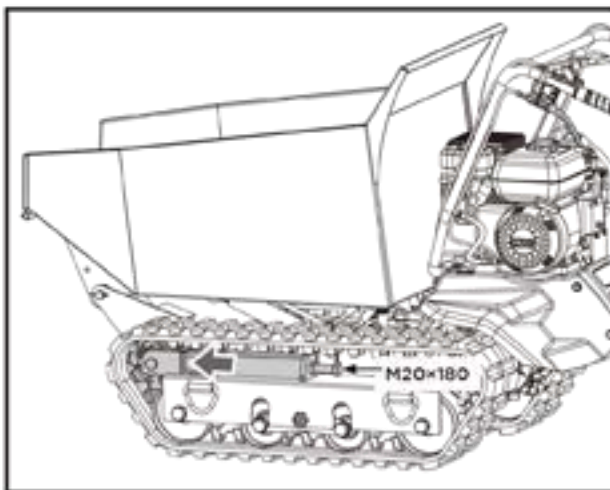
If the distance is greater, proceed as follows.

1. Use the tipping handle to tip the hopper and set it on blocks or supports rated for the weight of the box.
2. Loosen locknut A.
3. Tighten bolt B until the correct tightness is restored.
4. Secure bolt B by tightening locknut A thoroughly.
5. Return the hopper to its original position.

## TRACKED TENSION ADJUSTMENT







**Caution:** Do not over-tighten your track. The adjustment of the track and the brakes are linked. The braking power will lessen the more the track is tightened.

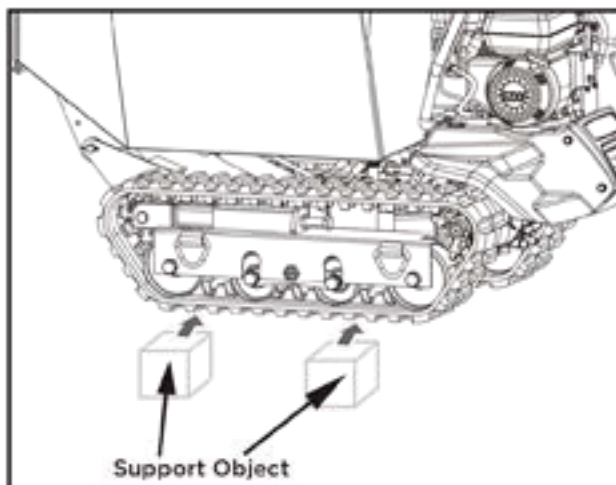


**If the adjustment bolt has no more adjustment left, the tracks may have to be replaced.**

### Replacing Tracks

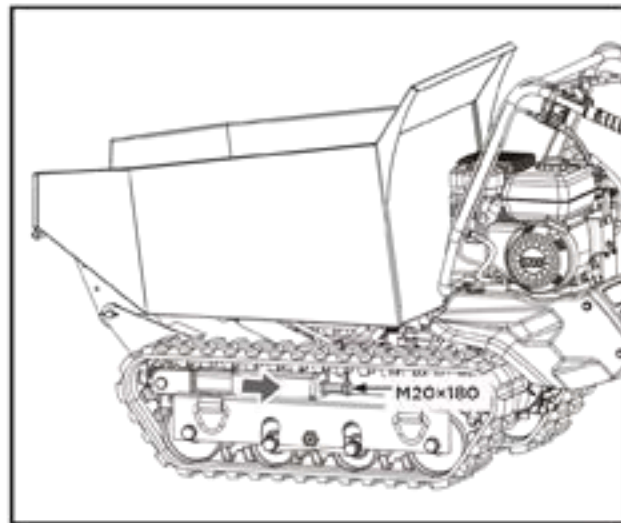
Check the condition of the tracks periodically. If any track is cracked or frayed, it should be replaced as soon as convenient.

1. Lift up the hopper and insert a support rod for safety purposes.
2. Lift the machine and set it on blocks or supports rated for the weight of the machine so that the tracks are approximately 10 cm off the ground.

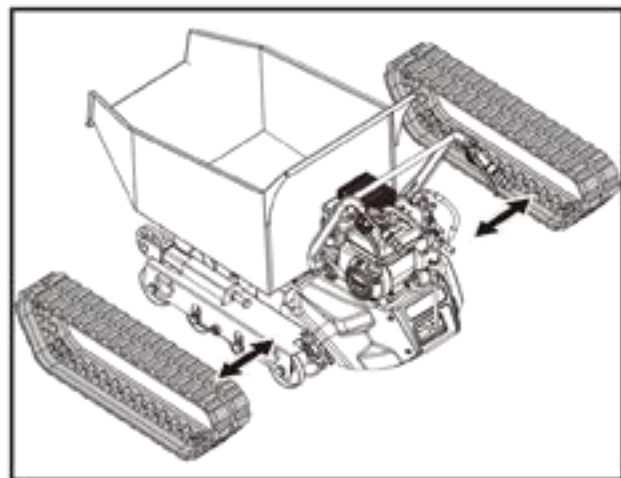


Support Object

Adjust the bolt M20x180 to move the guiding wheel assembly toward the driving wheels. Then the track will get loose.



Pull out the loosen tracks .



**When removing or installing the tracks, be careful not to get your fingers caught between the track and pulley.**

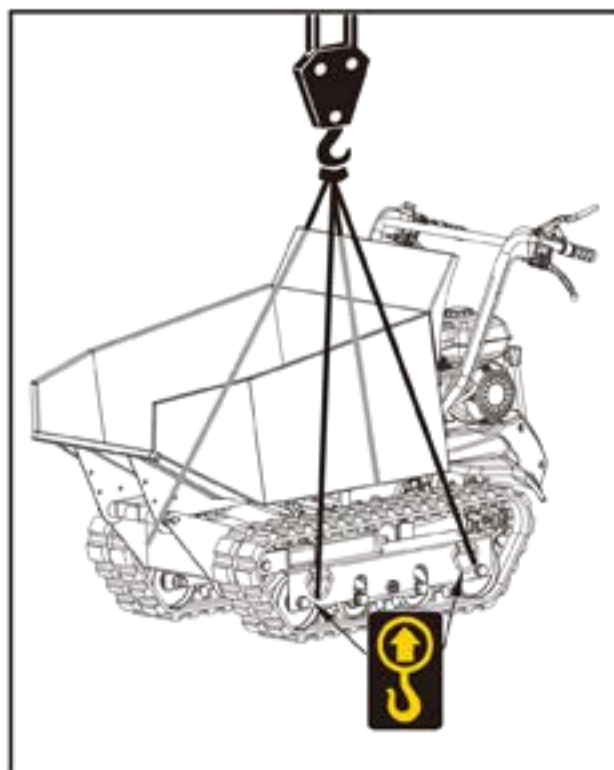
### ENGINE MAINTENANCE

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

## Transporting

For long distance transport, the machine is equipped with lifting rings for hoist.

Use a crane to lift up the machine with a reliable chain, rope or strap fixed through the lifting rings as shown in the figure.



## STORAGE

If the mini tracked dumper will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and run until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil

from the engine. Refill with fresh oil of the grade recommended in the Engine Manual.

4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



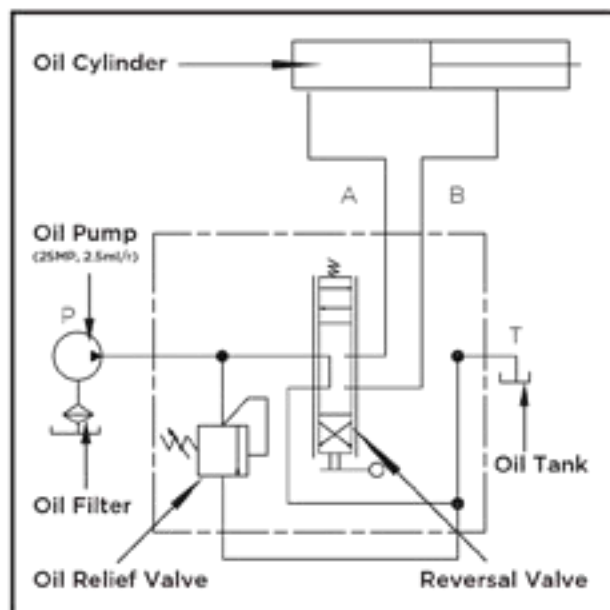
**Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.**

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



**Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.**

## HYDRULIC SCHEME



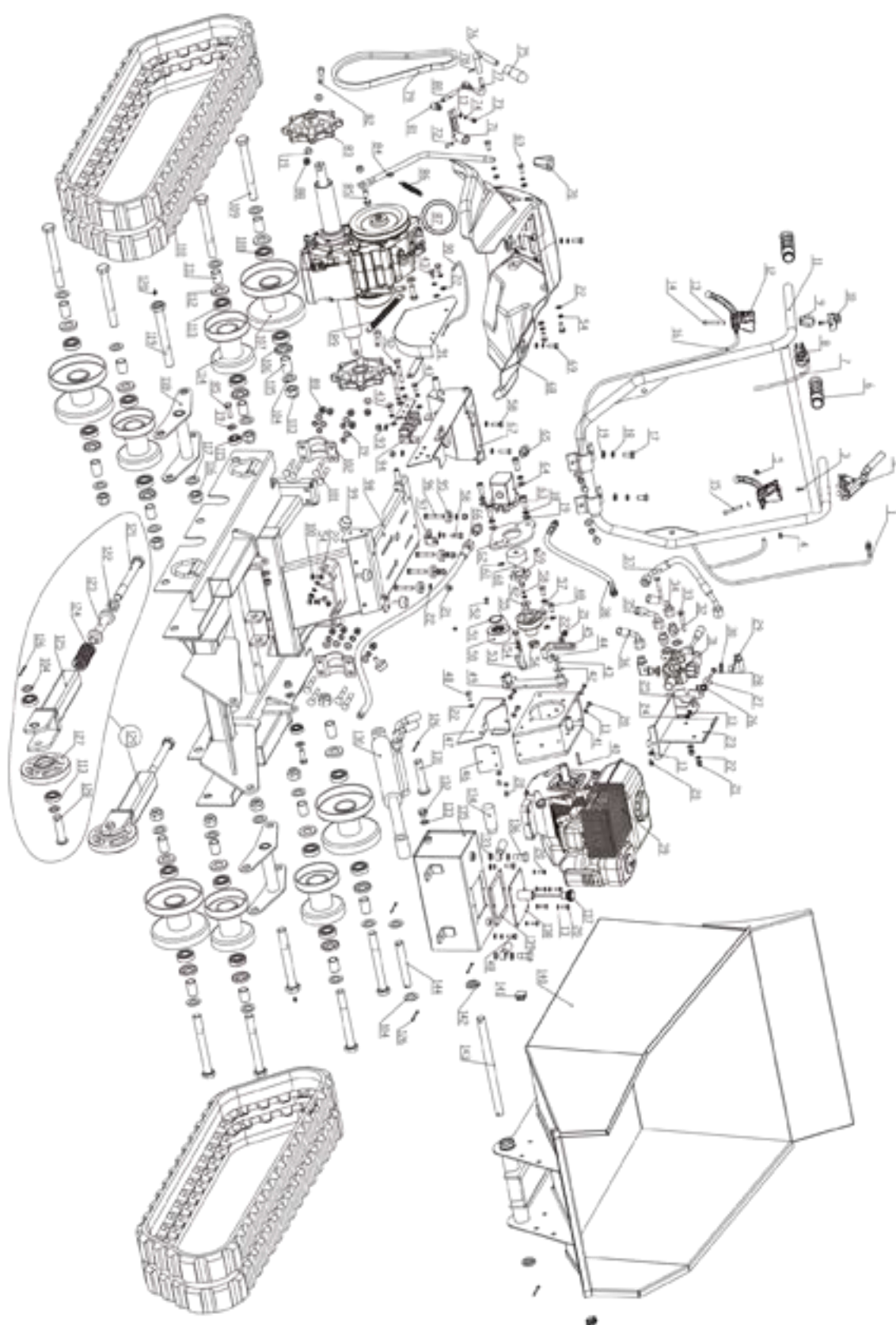


## TROUBLE SHOOTING

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Problem	Cause	Remedy
Engine fails to start	<ol style="list-style-type: none"><li>1. Spark plug wire is disconnected</li><li>2. Out of fuel or stale fuel</li><li>3. Engine and/or Fuel valve is not in ON position</li><li>4. Choke lever is not in CLOSE position</li><li>5. Blocked fuel line</li><li>6. Fouled spark plug</li><li>7. Engine flooding</li><li>8. Belt tension lever is engaged</li></ol>	<ol style="list-style-type: none"><li>1. Attach spark plug wire securely to spark plug</li><li>2. Fill with clean, fresh gasoline</li><li>3. Engine and Fuel valve must be in ON position</li><li>4. Choke level must be in CLOSE position for a cold start</li><li>5. Clean fuel line</li><li>6. Clean, adjust gap, or replace</li><li>7. Wait a few minutes to restart, but do not prime</li><li>8. Disengage the belt tension lever</li></ol>
Engine runs erratically	<ol style="list-style-type: none"><li>1. Spark plug wire is loose</li><li>2. Unit running with Choke lever in CLOSE position</li><li>3. Blocked fuel line or stale fuel</li><li>4. Vent plugged</li><li>5. Water or dirt in fuel system</li><li>6. Dirty air cleaner</li><li>7. Improper carburetor adjustment</li></ol>	<ol style="list-style-type: none"><li>1. Connect and tighten spark plug wire</li><li>2. Move choke lever to OPEN position</li><li>3. Clean fuel line. Fill tank with clean, fresh gasoline</li><li>4. Clear vent</li><li>5. Drain fuel tank. Refill with fresh fuel</li><li>6. Clean or replace air cleaner</li><li>7. Refer to engine manual</li></ol>
Engine overheats	<ol style="list-style-type: none"><li>1. Engine oil level low</li><li>2. Dirty air cleaner</li><li>3. Air flow restricted</li><li>4. Carburetor not adjusted properly</li></ol>	<ol style="list-style-type: none"><li>1. Fill crankcase with proper oil</li><li>2. Clean air cleaner</li><li>3. Remove housing and clean</li><li>4. Refer to engine manual</li></ol>
One of the two tracks is blocked	Foreign bodies have worked their way between the track and the frame	Remove the foreign body
Machine does not move while engine is running	<ol style="list-style-type: none"><li>1. Gear is not properly selected</li><li>2. Driving tracks not tight enough</li></ol>	<ol style="list-style-type: none"><li>1. Ensure gear lever is not in-between two different gears</li><li>2. Tighten driving tracks</li></ol>



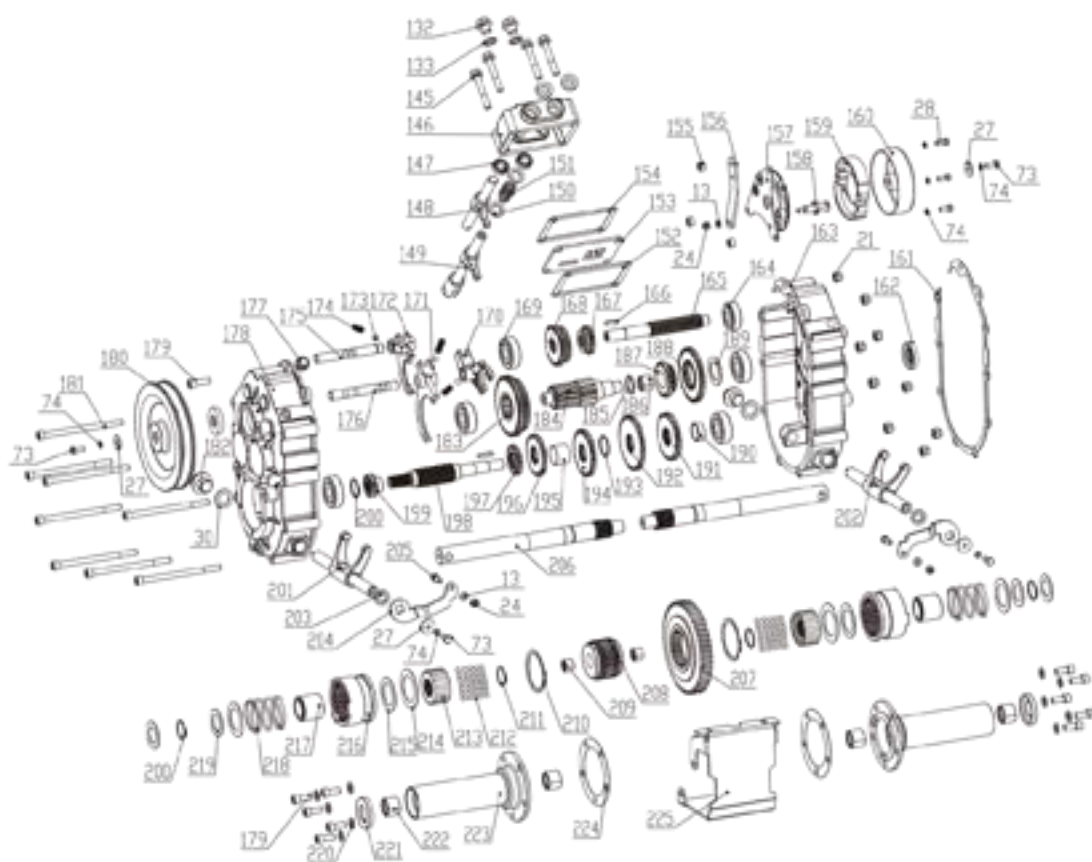


09737 Machine



# 09737 Gearbox (50)

GB



No.	Description	Q'ty
1	Clutch Control Lever Cable	1
2	Clutch Control Lever	1
3	Screw M6x16	1
4	Screw M5x20	2
5	Nut M5	2
6	Handle sleeve	2
7	Throttle Lever	1
8	Throttle Cable	1
9	Hoop	1
10	ON/OFF Switch	1
11	Handle Frame	1
12	Right/Left Steering Lever	2
13	Washer $\phi 6$	17
14	Screw M6x35	1
15	Screw M6x60	1
16	Steering Cable	2
17	Bolt M10x25	4
18	Washer $\phi 10$	8
19	Washer $\phi 10$	25
20	Bolt M6x12	13
21	Nut M8	18
22	Washer $\phi 8$	35
23	Mounting Plate	1
24	Nut M6	4
25	Return Plate	1
26	Torsional Spring	1
27	Washer 6	4
28	Screw M6x30	4
29	Angle Coupling G3/8-M18x1.5	2
30	Combined Sealing Washer 18	6
31	Reversing Valve	1
32	Thread Connector G3/8-M18x1.5	2
33	Bolt M8x55	2
34	Oil Inlet Hose of Cylinder	1
35	Oil Return Hose of Cylinder	1
36	Oil Return Hose	1
37	High Pressure Oil Inlet Pipe	1
38	Oil Drain Hose	1
39	Gasoline Engine	1
40	Flat Key 5x35	1

No.	Description	Q'ty
41	Pump Mounting Plate	1
42	Washer $\phi 8$	2
43	Bolt M8x16	5
44	Bolt M8x25	1
45	Belt Retaining Bracket I	1
46	Front Plate	1
47	Pulley Cover	1
48	Bolt M8x20	6
49	Tensioner Pulley Bracket	1
50	Tensioner Pulley	1
51	Circlip 35	1
52	Screw M5x12	1
53	Belt Retaining Bracket	1
54	Washer $\phi 8$	22
55	Bolt M8x30	1
56	Sleeve Washer	1
57	Small Pulley	1
58	Bolt M8x25	4
59	Rubber Gasket	1
60	Coupler(12.7)	1
61	Screw M8x10 w/glue	2
62	Pump Mounting Flange	1
63	Screw M10x25	4
64	Oil Pump CBQ-FT3.0(20MP)	1
65	NPT3/8-M18x1.5	2
66	Oil Suction Hose	1
67	Transition Plate	1
68	Gearbox Cover	1
69	Screw M8x20	6
70	Knob	1
71	Shaft Sleeve	1
72	Cylindrical Pin 6x25	1
73	Bolt M6x16	4
74	Spring washer 6	8
75	Hand Knob	1
76	Rocker	1
77	Elbow Lever	1
78	Cylindrical Pin 4x14	1
79	V- Belt 32	1
80	Adjusting Shaft	1





No.	Description	Q'ty
81	Knuckle Bearing SQ6-RS	2
82	Screw M10x60	2
83	Driving Wheel	2
84	Gear Shifting Lever	1
85	Bolt M10x35	3
86	Spring	1
87	Gearbox 6+2	1
88	Lock Nut M10	13
89	Long Extension Spring	1
90	Brake Cable	1
91	Big Pulley Cover	1
92	Bolt M8x60	2
93	Pressing Plate	1
94	Hose Clamp	1
95	Rubber Pad	4
96	Bolt M8x45	4
97	Cable Bracket	1
98	Chassis Weldment	1
99	Rubber Cushion	4
100	Nut M8	1
101	Bolt M10x65	8
102	Axle Pressing Plate	2
103	Nut M20	8
104	Washer 20	20
105	Support Bush 1	8
106	Seal FB25x47x7	8
107	Supportin Wheel	4
108	Bearing 6204-2RS	8
109	Hexagon Bolt	8
110	Track 180x60 38	2
111	Support Bush 2	8
112	Seal FB25x42x7	8
113	Bearing 6004-2RS	12
114	Supportin Wheel	4
115	Bearing 6300-2RS	2
116	Nut M22	2
117	Washer 22	2
118	Wheel Mounting Bracker	2
119	Bolt M22x180	2
120	Grease Nipple 6x1	2

No.	Description	Q'ty
121	Adjusting Shaft	2
122	Hexagon Thin Nut M20	2
123	Connecting Pipe	2
124	Guide Spring	2
125	Guide Wheel Adjusting Part	2
126	Cotter Pin f 4X35	7
127	Guide Wheel	2
128	Axis Pin	2
129	Guide Wheel Assy	2
130	Rotation Shaft 1	1
131	Axis Pin 20x95	1
132	Plug M14x1.5	3
133	Combined Sealing Washer 14	8
134	Oil Filter	1
135	Oil Tank	1
136	Hollow Bolt M14x1.5	2
137	Oil Dipsticker	1
138	Oil Tank Cover	1
139	Asbestos Cushion	1
140	Dumper Box	1
141	Pipe Plug 19x19	2
142	Elastic Cushion	2
143	Two-head Stud	1
144	Rotation Shaft 2	1
145	Hexagon Flange Bolt M8x55	4
146	Gear Shift Tower	1
147	Seal FB14x24x7	4
148	Speed Shift Pin + Pin Axis	1
149	Gear Shift Pin + Pin Axis	1
150	Compression Spring	1
151	Washer	2
152	Paper Spacer for Gear Shift Plate	1
153	Gear Shift Plate	1
154	Paper Spacer for Gear Shift Tower	1
155	Joint Bolt	3
156	Brake Pull Plate	1
157	Brake Fixing Part	1
158	Connecting Shaft	1
159	Brake Shoe	1
160	Expansion Brake Cover	1

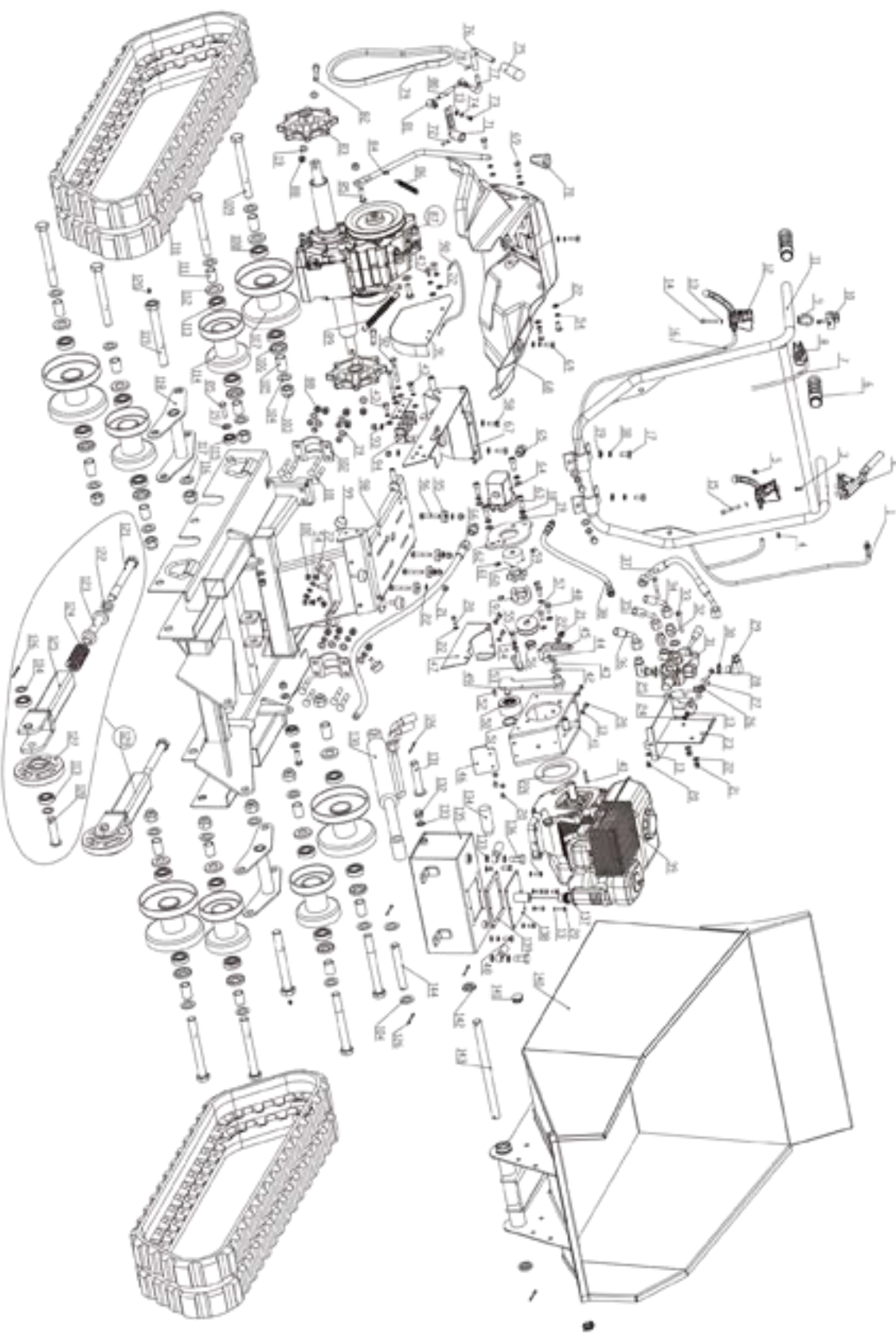
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No.	Description	Q'ty
161	Paper Spacer for Housing	1
162	Seal FB17X40X7	2
163	Gearbox Housing ( L )	1
164	Bearing 6302	1
165	Spline Shaft	1
166	Key A5x20	2
167	Gear 1 / R	1
168	Gear 2 / 3	1
169	Bearing 6303	5
170	Shifting Fork - Gear 1/R	1
171	Shifting Fort - Speed H/L	1
172	Shifting Fork - Gear 2/3	1
173	Steel Ball	3
174	Positioning Spring	3
175	Shift Fork Shaft I	1
176	Shift Fork Shaft II	1
177	Vent Plug	1
178	Gearbox Housing ( R )	1
179	Screw M8x25	11
180	Large Belt Pulley	1
181	Screw M8X130	8
182	Plug Screw M18x1.5	2
183	Gear - Speed H/L	1
184	Intermediate Shaft II	1
185	Anti-wear Gasket II	1
186	Gear III -2 Bush	1
187	Transition Gear for Reverse	1
188	Driven Gear for Reverse	1
189	Anti-wear Gasket I	1
190	Bush 1	1
191	Gear II -4	1
192	Driven Gear for Gear 1	1
193	Adjusting Pad(27x34x1.5)	1
194	Driven Gear for Gear 2	1
195	Bush 2	1
196	Driven Gear for Gear 3	1
197	Driving Gear for Speed H	1
198	Intermediate Shaft I	1
199	Driving Gear for Speed L	1
200	Circlip 26	3

No.	Description	Q'ty
201	Clutch Fork (R)	1
202	Clutch Fork Shaft (L)	1
203	Seal FB16x22x4	2
204	Swing Plate	2
205	Bolt M6X20	2
206	Output Shaft	2
207	Output Big Gear	1
208	Intermediate Joint Bush	1
209	Intermediate Joint Bush Composite Bushing	2
210	Circlip 58	2
211	Circlip 25	2
212	Steel Ball 5	70
213	Joint Bush	2
214	Spring Gasket	2
215	Spring Gasket	4
216	Clutch Sleeve	2
217	Spring Guide Bush	2
218	Clutch Spring	2
219	Gasket 1	4
220	Washer 8	10
221	Seal FB25x42x7	2
222	Output Shaft Composite Bushing	4
223	Outpush Shaft Bush	2
224	Paper Gasket for Bush	2
225	Guard Cover	1



GB

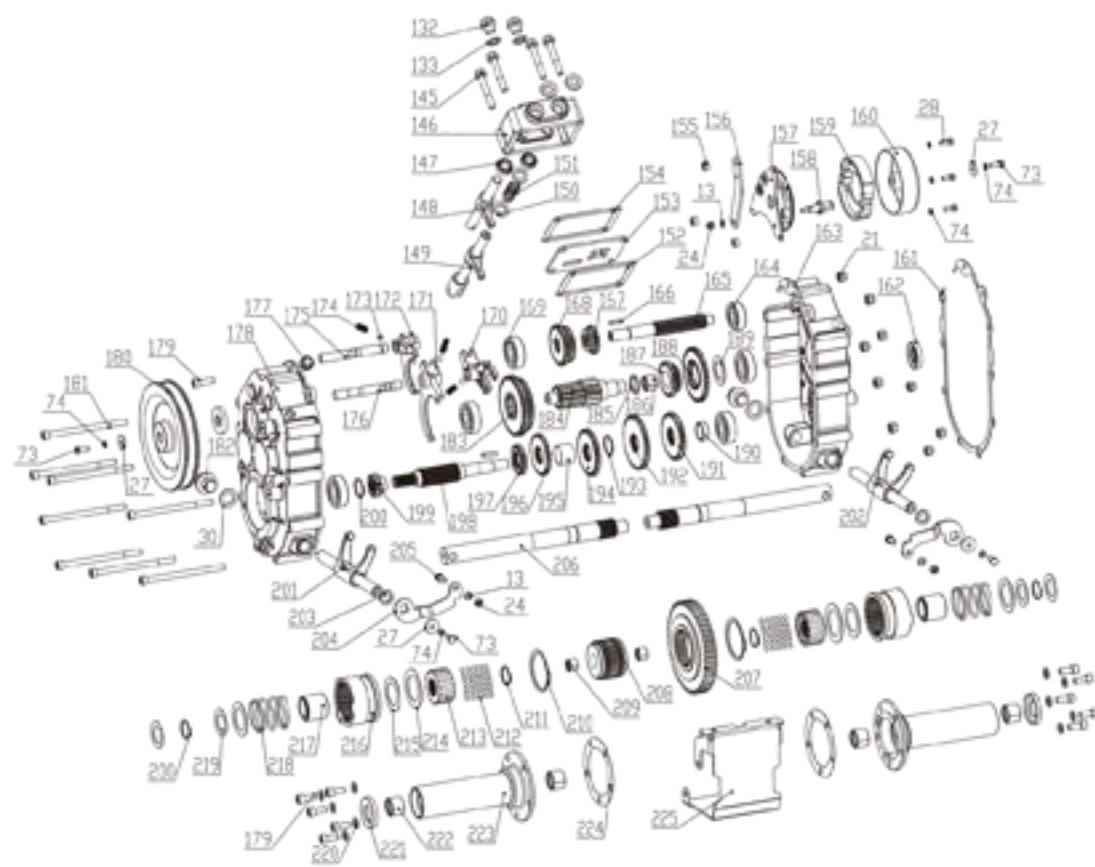


09737A Machine

MINI TRACKED DUMPER

25







## Parts List

**GB**

No.	Description	Q'ty
1	Clutch Control Lever Cable	1
2	Clutch Control Lever	1
3	Screw M6x16	1
4	Screw M5x20	2
5	Nut M5	2
6	Handle sleeve	2
7	Throttle Lever	1
8	Throttle Cable	1
9	Hoop	1
10	ON/OFF Switch	1
11	Handle Frame	1
12	Right/Left Steering Lever	2
13	Washer ø6	17
14	Screw M6x35	1
15	Screw M6x60	1
16	Steering Cable	2
17	Bolt M10x25	4
18	Washer ø10	8
19	Washer ø10	25
20	Bolt M6x12	13
21	Nut M8	18
22	Washer ø8	35
23	Mounting Plate	1
24	Nut M6	4
25	Return Plate	1
26	Torsional Spring	1
27	Washer 6	4
28	Screw M6x30	4
29	Angle Coupling G3/8-M18x1.5	2
30	Combined Sealing Washer 18	6
31	Reversing Valve	1
32	Thread Connector G3/8-M18x1.5	2
33	Bolt M8x55	2
34	Oil Inlet Hose of Cylinder	1
35	Oil Return Hose of Cylinder	1
36	Oil Return Hose	1
37	High Pressure Oil Inlet Pipe	1
38	Oil Drain Hose	1
39	Gasoline Engine	1
40	Flat Key 7x40	1

No.	Description	Q'ty
41	Pump Mounting Plate	1
42	Washer ø8	2
43	Bolt M8x16	5
44	Bolt M8x25	1
45	Belt Retaining Bracket I	1
46	Front Plate	1
47	Pulley Cover	1
48	Bolt M8x20	6
49	Tensioner Pulley Bracket	1
50	Tensioner Pulley	1
51	Circlip 35	1
52	Screw M5x12	1
53	Belt Retaining Bracket	1
54	Washer ø8	22
55	Bolt M8x30	1
56	Sleeve Washer	1
57	Small Pulley	1
58	Bolt M8x25	4
59	Rubber Gasket	1
60	Coupler(12.7)	1
61	Screw M8x10 w/glue	2
62	Pump Mounting Flange	1
63	Screw M10x25	4
64	Oil Pump CBQ-FT3.0(20MP)	1
65	NPT3/8-M18x1.5	2
66	Oil Suction Hose	1
67	Transition Plate	1
68	Gearbox Cover	1
69	Screw M8x20	6
70	Knob	1
71	Shaft Sleeve	1
72	Cylindrical Pin 6x25	1
73	Bolt M6x16	4
74	Spring washer 6	8
75	Hand Knob	1
76	Rocker	1
77	Elbow Lever	1
78	Cylindrical Pin 4x14	1
79	V- Belt B32	1
80	Adjusting Shaft	1

**MINI TRACKED DUMPER****27**

No.	Description	Q'ty
81	Knuckle Bearing SQ6-RS	2
82	Screw M10x60	2
83	Driving Wheel	2
84	Gear Shifting Lever	1
85	Bolt M10x35	3
86	Spring	1
87	Gearbox 6+2	1
88	Lock Nut M10	13
89	Long Extension Spring	1
90	Brake Cable	1
91	Big Pulley Cover	1
92	Bolt M8x60	2
93	Pressing Plate	1
94	Hose Clamp	1
95	Rubber Pad	4
96	Bolt M8x45	4
97	Coupler (%c25)	1
98	Chassis Weldment	1
99	Rubber Cushion	4
100	Nut M8	1
101	Bolt M10x65	8
102	Axle Pressing Plate	2
103	Nut M20	8
104	Washer 20	20
105	Support Bush 1	8
106	Seal FB25x47x7	8
107	Supportin Wheel	4
108	Bearing 6204-2RS	8
109	Hexagon Bolt	8
110	Track 180x60 38	2
111	Support Bush 2	8
112	Seal FB25x42x7	8
113	Bearing 6004-2RS	12
114	Supportin Wheel	4
115	Bearing 6300-2RS	2
116	Nut M22	2
117	Washer 22	2
118	Wheel Mounting Bracker	2
119	Bolt M22x180	2
120	Grease Nipple 6x1	2

No.	Description	Q'ty
121	Adjusting Shaft	2
122	Hexagon Thin Nut M20	2
123	Connecting Pipe	2
124	Guide Spring	2
125	Guide Wheel Adjusting Part	2
126	Cotter Pin f 4X35	7
127	Guide Wheel	2
128	Axis Pin	2
129	Guide Wheel Assy	2
130	Rotation Shaft 1	1
131	Axis Pin 20x95	1
132	Plug M14x1.5	3
133	Combined Sealing Washer 14	8
134	Oil Filter	1
135	Oil Tank	1
136	Hollow Bolt M14x1.5	2
137	Oil Dipsticker	1
138	Oil Tank Cover	1
139	Asbestos Cushion	1
140	Dumper Box	1
141	Pipe Plug 19x19	2
142	Elastic Cushion	2
143	Two-head Stud	1
144	Rotation Shaft 2	1
145	Hexagon Flange Bolt M8x55	4
146	Gear Shift Tower	1
147	Seal FB14x24x7	4
148	Speed Shift Pin + Pin Axis	1
149	Gear Shift Pin + Pin Axis	1
150	Compression Spring	1
151	Washer	2
152	Paper Spacer for Gear Shift Plate	1
153	Gear Shift Plate	1
154	Paper Spacer for Gear Shift Tower	1
155	Joint Bolt	3
156	Brake Pull Plate	1
157	Brake Fixing Part	1
158	Connecting Shaft	1
159	Brake Shoe	1
160	Expansion Brake Cover	1





No.	Description	Q'ty
161	Paper Spacer for Housing	1
162	Seal FB17X40X7	2
163	Gearbox Housing ( L )	1
164	Bearing 6302	1
165	Spline Shaft	1
166	Key A5x20	2
167	Gear 1 / R	1
168	Gear 2 / 3	1
169	Bearing 6303	5
170	Shifting Fork - Gear 1/R	1
171	Shifting Fort - Speed H/L	1
172	Shifting Fork - Gear 2/3	1
173	Steel Ball	3
174	Positioning Spring	3
175	Shift Fork Shaft I	1
176	Shift Fork Shaft II	1
177	Vent Plug	1
178	Gearbox Housing ( R )	1
179	Screw M8x25	11
180	Large Belt Pulley	1
181	Screw M8X130	8
182	Plug Screw M18x1.5	2
183	Gear - Speed H/L	1
184	Intermediate Shaft II	1
185	Anti-wear Gasket II	1
186	Gear III -2 Bush	1
187	Transition Gear for Reverse	1
188	Driven Gear for Reverse	1
189	Anti-wear Gasket I	1
190	Bush 1	1
191	Gear II -4	1
192	Driven Gear for Gear 1	1
193	Adjusting Pad(27x34x1.5)	1
194	Driven Gear for Gear 2	1
195	Bush 2	1
196	Driven Gear for Gear 3	1
197	Driving Gear for Speed H	1
198	Intermediate Shaft I	1
199	Driving Gear for Speed L	1
200	Circlip 26	3

No.	Description	Q'ty
201	Clutch Fork (R)	1
202	Clutch Fork Shaft (L)	1
203	Seal FB16x22x4	2
204	Swing Plate	2
205	Bolt M6X20	2
206	Output Shaft	2
207	Output Big Gear	1
208	Intermediate Joint Bush	1
209	Intermediate Joint Bush Composite Bushing	2
210	Circlip 58	2
211	Circlip 25	2
212	Steel Ball 5	70
213	Joint Bush	2
214	Spring Gasket	2
215	Spring Gasket	4
216	Clutch Sleeve	2
217	Spring Guide Bush	2
218	Clutch Spring	2
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MINI TRACKED DUMPER



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MINI TRACKED DUMPER

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**TRADE PEAK CO.,LTD**  
ADD:TIESHAN INDUSTRIAL AREA,HUANGDAO,QINGDAO,CN

*Operator's manual*

# **Trade Peak Tracked Mini Dumper**

## **QTP600H**



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## 1.INTRODUCTION

The following manual is turned to the personnel that has the responsibility of the correct use of the machines it regards the safety aspects. Recommends therefore a careful reading, especially of the paragraphs related to the instructions and to the formalities of use, to possibly preserve him/it in his/her custody together with the mini-dumper, so that to assure its availability for the following consultations. The machines provided of devices and safety systems opportunely studied and tested.

## 2.MARKING


The machine is identified with a special label in which there is write:

- CE mark in conformity to how much suitable in the directive 98/37/CE, attached II, part A; - Year of manufacture;

## ABBREVIATIONS LIST

Cap.	Chapter
Par.	Paragraph
All.	Enclosure
Mod.	Model
Rif.	Reference
D.M.	Machine Directive
Machine	Set of parts or components of which at least one mobile, interconnected, with appropriate actuators, control and power circuits, joined together for a very specific application in particular for the processing, treatment, handling and packaging material (D.M. 98/37/CEE - 98/79/CEE)
Dangerous zone	Any zone to the inside e/o in proximity of a machine in which the presence of an exposed person constitutes a risk for the safety and the health of said person. (D.M. 98/37/CEE - 98/79/CEE)
Exposed person	Person that are entirely found or partly in a dangerous zone. (D.M. 98/37/CEE - 98/79/CEE)
Operator	Person or people entrusted of to install, to make to work, to regulate, to perform the maintenance, to clean, to mend and to transport a car. (D.M. 98/37/CEE - 98/79/CEE)
Safety	Is in which the risk of damage to the people or to the things is limited to an acceptable level (EN 8402 and 94)
Risk	Combination of probability and gravity of possible lesions or damages to the health in a dangerous situation (EN 292/1)
Danger	Source of possible lesions or damages to the health (EN 292/1)



Evaluation of the risk	Global evaluation of the probability and the gravity of possible lesions or damages to the health in a dangerous situation to choose the suitable safety measures (EN 292/1).
Fixed protection	Shelter maintained in position, or in permanent way or through elements of fixing (EN 292/1)
Harmonized norms	European norms submitted by her/it Us and recalled by directives.
Preventive maintenance (ordinary)	Maintenance performed to predetermined intervals or in accord to prescribed criterions and time to reduce the probability of breakdown or the degradation of the operation of an entity (CEI 56/50 and 97).
Maintenance corrective(extraordin aire.)	Maintenance performed following the survey of a damage and time to bring an entity in the state in which it can perform an in demand function (CEI 56/50 and. 97).
	Attention: instructions and indications to meticulously be followed.

### 3 GENERAL INSTRUCTIONS



- Safety of employment of the machine is guaranteed only for the functions listed in these instructions of use.
  - For operations of extraordinary maintenance and reparation you must be use only original parts.
- All these operations must be performed Out of the machine, in a proper place, in plain and predisposed
- . The whole personnel that can be involved in the use to different title, has to be educated for a correct use, so that to never jeopardize neither the proper one neither other people's safety.
  - Needs that the operator reflects on the possible consequences before drawing near with the hands, particularly
  - **DON'T MAKE PEOPLE CLOSE AROUND( DISTANCE 2 METERS).**
  - **DON'T SUPPLY THE FUEL WHEN THE MACHINE IS ON**
  - The machine has a considerable metallic mass don't use when it storms **THUNDER IS CAUSE OF DEATH!**
  - Follow particularly the safety indications:
  - Use the individual protections as gloves, bonnets masks during the use, for assembling and maintenance.
  - Setting particular attention to the parts in movement..
  - Follow the safety indications brought in the chapter Indications For The Safety

## 4. CHARACTERISTICS

### 4.1. Description of the machine

The Mini dumper is built for the construction. Up to the machine there is the multifunction vessel :



From the factory it goes out in the proper order for to transport material loose as: soil, manure, leaves, sand, grain and similar. Operating the special lever is gotten the inclination of the vessel , the lever of closing counter in low to the left some large case automatically opens, getting I unload him/it some transported material..

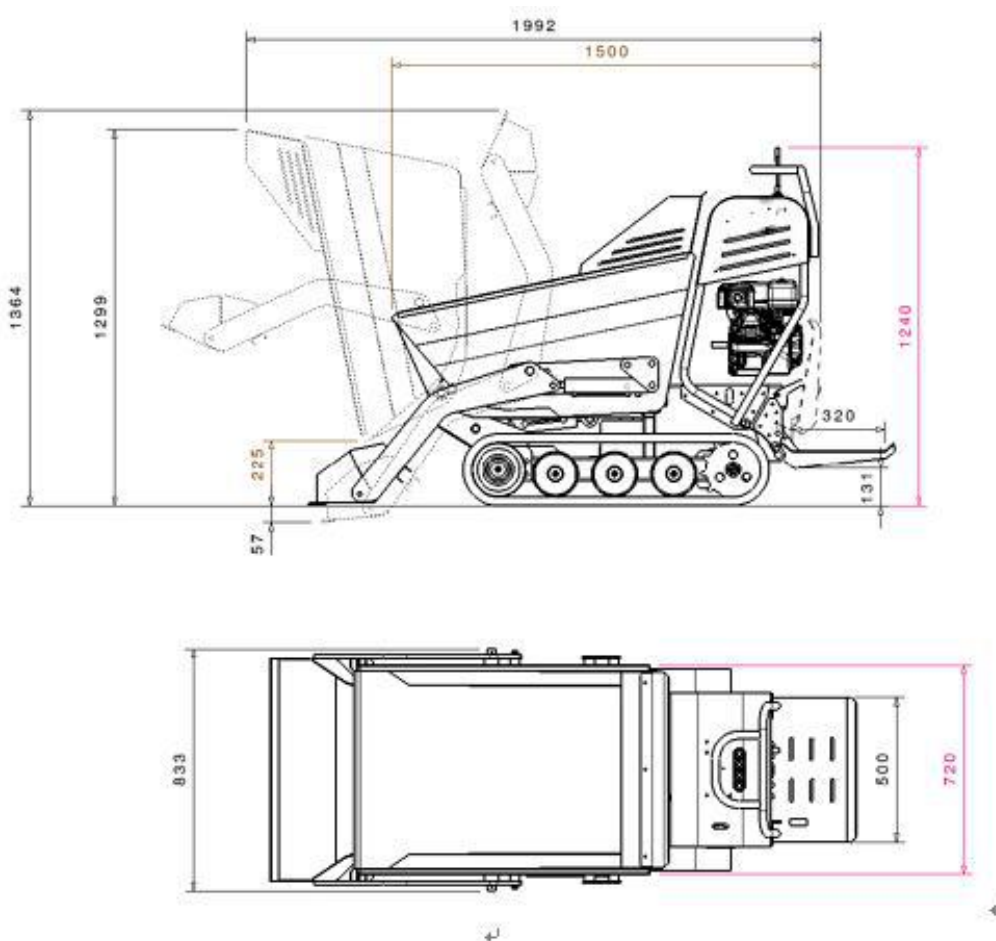
The main characteristic of this machine are : to be very simple, strong, reliable.  
 The small dimensions, the particularity of the loom, allows him to operate on every type of ground guaranteeing safety, stability and reliability in the time. A rapids verification to the morning will guarantee you a believer and sure companion of job for the whole day. The operating levers are situated in such a position that allows good visibility in any position and the operator it has the full control of the commands.

## 4.2 Technical characteristics and drawing

### Technical data MACHINE :

Description	Measure	Gasoline Version
Weight	Kg	345
Payload	Kg	350/500
Engine	GM	202CC
Max speed	Km/h	2,88
Grade ability	% (°incl.)	36% (20°)

Description	Measure	Diesel Version
Weight	Kg	361
Payload	Kg	350/500
Engine		KAMA178FE
Max speed	Km/h	2,88
Grade ability	% (°incl.)	36% (20°)



## 4.3 SAFETY PRESCRIPTION Limits of use, space



The machine has been designed and built for being used in external environment or in closed environments but airily. The machine is not fit for the use in underground places, environments with

presence of gas , dusts ,explosive.

The machine has been designed and built for transport of loose materials what: soil, manure, leaves, sand, stones, gravel, grain and similar, firewood, flowerpots, baskets, cassettes for fruit, vegetables and other products of the agriculture and floriculture. The mini-dumper are studied, designed, to transport the material solos above described. Be careful driving in reverse.

Always check the ground so that to avoid unexpected obstacles. Operate only in safety condition.

Don't bring changes to improve the machine performances .

Not reverse the sense of march, if the machine is in movement you can be cause of accidents.

Driven always to moderate speed, before reversing the march stop you, check that there are no obstacles and you leave again.

You attentively check the ground on which work: holes, terrestrial yielding, hidden stones, cables voters, pipelines of the gas or the water etc. can represent a danger To always operate to checked speed; in case of steps to be overcome, you always insert some additional thickness between a stair and the other because they limit the bumps.

You never make descents to the limit of inclination in reverse.

If the machine is used with terrestrial inclination, assure you that the tracks are oriented in the sense of the inclination and not transversally.

Working on a soft ground, uneven or not leveled it is necessary to set greater attention to avoid the turnover.

Never overload the machine ! You could capsize and provoke serious accidents.

Before climbing with the MACHINE on ramps, check that these are sure of the suitable course, that is not slippery.

To avoid the superior inclinations to 20°.

Follow the instructions of the manual for a correctly park of the machine.

The gasoline is inflammable. You always extinguish the machine before the restocking and allow to cool.

Not use the hands for the control of the small oil leakage , neither to hold the to use a cardboard to check on this I complete the possible presence of hydraulic liquid.

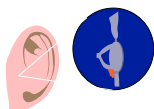
Always remember that the oil is a special refusal and as such managed to terms of law .

If a particular situation brings you to use the machine on the border of a road or on a slant, worry to check you first the level of the ground and the equilibrium of the machine, to avoid a possible glide or a turnover.



**ATTENTION !!!!! . EVERY WRONG USE OF THE MACHINE OF THAT EXPECTATION IS DECLARED AT THE BUILDER IN THE MANUAL PRESENT IT IS CONSIDERED IMPROPER.**

#### 4.4 Noise



In the underlying chart are brought::

- the level of noise issue of the mini-dumper. measured to the ear of the operator (LpA to 1 m in conformity to how much foreseen by the Directive 98/37/CEE)
- the level of noise issue in the environment (power LwA) measured following EN ISO 3744 (2000/14/CE)

Tracked mini-dumper	Motor	LpA (dB)	LwA (dB)
<b>Gasoline</b>	170F	76 dB	93 dB
<b>Diesel</b>	KAMA178FE	79 dB	98 dB

Don't increase the time the level of noise it is necessary to meticulously respect the following rules:

- Clean , lubricate and to fatten up with the recommended frequency the organs of the machine.

Check that is not obstructed or damaged parts of the machine. The level of noise it is obligatory the use of devices of individual protection as bonnets, corks present quant'altro in commerce to protect the hearing. The values rated for the noise are levels of issues and not necessarily levels of sure job. While there is being a correlation between levels of issue and levels of exposure, this cannot reliably be used for determining if they were in demand or no further precautions. The factors that influence the reality level of exposure of the worker include the duration of the exposure. Her characteristics of the environment, other sources of issue for ex. the number of the cars and other adjacent workmanships. Also the levels of exposure permissions can vary from country. However these information put in degree the user of the machine to make a best evaluation of the dangers and the risks.

#### 4.5 Safety normative conformity

HUKI 40 H is projected and built in conformity to the following norms:

**"Direttiva machine" 98/37/CEE - and relative changes and to the legislation that transposes;**

- **Direttiva 2000/14/CEE "environmental acoustic issue of the Mini-dumpers and equipment destined to work to the open one" and to the national legislation that transposes;**
- **" Procedures applied for the evaluations of conformity: check inside of the production with evaluation of the technical documentation and you check periodic, all.**



**4.6 Directional references** In all the cases in which it refers us to in this manual: right and left, before and back, he intends bewaring of the position of the operator with the Large case of the Bill conveyor of forehead.

## 5 NEW WORK SITE

### 5.1 Transport

The mini-dumper is delivered assembled and functioning, for which it is enough to unload to load the machine with fit platforms or on a Pallet.

The solidity of the mini-dumper, their form and dimensions, are such to be guaranteed the portability and the stored in sure way and without damages. To load and to unload with a lift and pallet suitable to the load. For the machine to go down from the pallet is simple, all it takes is slowly moving it and with attention. The weight of the mini-dumper is brought on the nameplate Us; being a remarkable weight to watch out a lot of in phase of load and unloading. Assure you that the mean on which transport the machine and the possible ramps of load, have measures and course adjusted, above all that they have such a dimension to also allow the passage of the operator. you always Stop the wheels of the truck with some wedges before loading or to unload the machine. You fix the ramps to the truck and you conduct the machine on the same with due caution.

Switch off the engine, removes the ramps and ties the machine to the mean of transport in sure way.

The machine has stung specific of anchorage and lifting, suitable with adhesive, therefore tied up labels with straps the loom.

The mini-dumper has these :

- N. 1 Operator and spare parts manual
- N. 1 Engine book;
- N. 1 funnel for the restocking fuel;
- N. 1 Certified of conformity C.E. attached in this manual



We recommends to adopt every caution during the operations of load-unloading and transport so that to avoid damages and dangers to the people and the car. The devices of load and transport have to be dimensionati and confirmed in conformity to the weight to sustain. To lift the car, to use fit ropes and to hook only him in the suitable points. To follow the safety indications brought in the chapter Indications For The Safety.

### 5.2 As to leave the machine

The mini-dumper has to be placed in a suitable zone.

### 5.3 Areas of respect and dimensions



The useful space of necessary job to a correct use and to a correct maintenance is of minimum 5 meters in which the zone of respect is brought around the car, inside which it is necessary to pay the maximum attention both for the people and the things, avoiding that there can be obstacles during the use. **Inside the zone of respect it is necessary to pay the maximum attention to the people and things, avoiding that can be present obstacles to the passage. To use devices of individual protection as shoes antinfortunistiche and to handle the periodic cleaning of the floor.**

### 5.4 Pre-operation check list



With the commands to hydraulic driving it is **EXTREMELY IMPORTANT** that, before beginning the job, the hydraulic oil is heated. During the phase of heating the operator can verify the correct operation of the machine or the possible necessity of maintenance.

This manual, the nameplates on the machine furnish the necessary indications for a correct and sure operation of the car. And' your care to read and to understand such indications, in how much ignoring you can cause her serious accidents. Not you leave to the case if there is something that you not understand. Your distributor will be pleased to give you any necessary information. In the case of dismay or damage of the manual, of the nameplate or of the labels, you contact your distributor for the substitution.

### 5.5 Safety first of all



All the mini-dumper can be dangerous. When are used and correctly maintained, it is an extremely sure car. If you/he/she is wrongly used, you/he/she can result instead dangerous. Both in this manual and on the machine you will find some instructions, indicanti all the potential dangers and as to avoid them. For any doubt, asks explanations to your retailer or to your responsible forehead. Not you work with the machine until don't be able to check her/it. Not begin some job up to that you are not certain of yours and of other people's safety. You could incur in accidents if you perform some non family operations, without doing before the tests, that must be perform in the free zones away from other people and on plain ground. Follow the safety prescriptions (**see 4.3 INDICATION PRESCRIPTION**).



### 5.6 puts in job

Before the mass in work of the machine, especially if it deals with the first starting or when this is installed in a new place of employment and' necessary to effect the following verifications and to keep in mind of the following technical instructions and the following suggestions:

Verify the level of the oil; - to Verify the state of use of the tracks; - To verify the areas of respect and the work areas;- Verify that the protections have correctly fixed;

Verify that the indications and the instructions are present on the machine and easily visible.

Effect a general test of all the commands of the car, to empty to verify its correctness

## 5.7 Training



Before the use of the machine it is necessary to attentively read this manual of instructions learning the formalities and the procedures to operate in safety.

## 6 REGULATIONS

### 6.1 Regulation machine

To the first use in the yard, the car doesn't need regulations.

### 6.2 Regulation rubber tracks

Regular often the tension of the tracks.

- An insufficient tension can make to go out the tracks of its own center and it quickly consumes the wheels engines and the metallic inserts of the track.
- An excessive tension increases the resistant strength to the transfer and this can cause both an excessive wearing out of the bottom wagon is an extra tension of the track with possible premature breakups.

To prevent possible damages to the tracks in rubber would need to avoid to work the more possible in the following situations:

Cave or pointed rocks. - Bars or metallic wrecks.

Edges or edges of metallic objects or cement. - Fire or other sources of heat.

To eliminate the with a rag: gas-oil, hydraulic or fat oil from the surface of the track.

If the machine is not used for long time (3 months or more) to store the tracks avoiding the direct light of the sun and the rain.

Because of the characteristics of the rubber to use the car with inclusive temperatures among -25°C and +55°C.

## 7.USE



### 7.1 Operations and commands

#### 7.1.1 Move of the machine (Joy stick A, B)

##### Move rectilinear

Push the two levers and the machine start moving

##### Stop

Leave the levers and machine stopped.

##### Turning off

Throw back the levers.. Machine move to the back part ( operator side).

**Don't drive or move the transporter when is switch off.**

#### 7.1.2 Manoeuvres vessel (D)



##### Attention !!

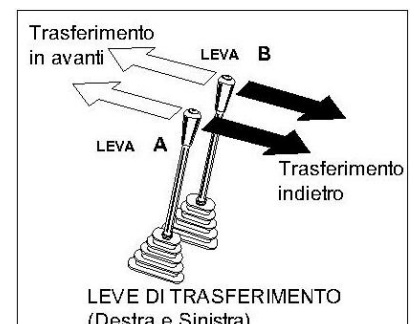
When motor is switch off, the lever D t lowers under same weight.

##### Lift vessel:

Push the lever in ahead to capsize vessel

##### .Lower vessel:

Throw back the lever to bring the vessel in horizontal position..



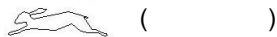
### 7.1.3 Speed Lever (E)

**Decelerate**

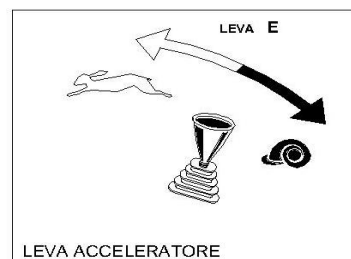


Push the lever in ahead to lower the turns of the motor.

**Accelerate**



Bring back the accelerator lever to increase the turn of the motor.



During the use of the machine follow the chapter **SAFETY LIST**.

## 7.2 Use of endothermic motor

### 7.2.1 Controls before starting

Verify the levels of oil motor and fuel..

For the methods of control, make reference to how much brought in the section "daily Controls" of this manual.

### 7.2.2 Starting

Effect the mass in motion of the motor reporting suggestion by the builder of the motor reading the special manual, of which the machine is equipped.

### 7.2.3 Turning off

- Rotate the Lower part motor Turns for some minutes. This allows the motor to gradually get cold before the turning off.
- Effect the turning off of the motor reporting suggestion by the builder of the motor reading the special manual, of which the machine is equipped.

## 7.3 Preheating of the machine

As for all the hydraulic systems, it is very important that the hydraulic oil is to thermal regime before beginning to work.

The necessary time to the preheating can usefully be employed for some simple operations of control of maintenance. Before effecting height manoeuvres load meticulously follow to the following indications:

- Leave that the motor slowly heats him to low regime of turns for 2-3 minutes.
- Operate the cylinder of lifting of the vessel to heat to allow the filling of the pipelines.

## 7.4 MACHINE TRANSFER

### 7.4.1 Rectilinear transfer

1. Move the lever of regulation of the number of turns of the motor in the desired position.
2. Control the lever:

#### Rectilinear transfer

Push the lever and the machine go straight on

- **STOP**

- Move back slowly both the levers up to the intermediary position to brake and to stop the machine

#### Transfer reverse

Pull the lever and the machine go back

### 7.4.2 Transfer control

1. Move the lever of regulation of the number of turns of the motor in the desired position.

Check the levers of right transfer and it damages as it follows.

### CURVILINEAR TRANSFER

Follow the underlying indications :



**Bend to the left** Push the right lever (1) ahead to rotate to the left moving, to throw to if the right lever to rotate to the left moving back

#### Bends to the right

Push the left lever (2) ahead to rotate to the right moving himself/herself/itself in before, the left lever to rotate to the right moving back.





### 3 Rotation on him same

#### Rotation to the left

Push in before the right lever (1) and contemporarily to throw back her it raises left. (2). This operation provokes to the left a fast rotation



#### Rotation to the right

Push in before the right lever (1) and contemporarily to throw back her it raises left. (2). This operation provokes to the left a fast rotation



#### 7.4.3 INSTRUCTIONS FOR MOVES ON THE GROUND IN INCLINATION

Lower the regime of turns of the motor when you maneuver in narrow spaces or climbing over a ditch. On a ground in inclination to possibly move himself/herself/themselves with the tracks prepared in the sense of the inclination and not transversally. Not on the wrong side goes never to a slant. You avoid to change the sense of direction on the slant, this you/he/she could cause the turnover or side skid of the machine.

Attention to the strong inclinations, the builder of the endothermic motor has inserted an electric sensor that spenge the motor so that to avoid lack of lubrication, caused by the excessive inclination (max 25°)

#### 7.5 General Instructions

##### • Use where the devices of individual protection in demand

- Is forbidden to transport people.
- Don't put in the large case of the so voluminous loads to be able to hinder the view from the place of guide.
- Don't circulate with the lifted large case.
- Don't insist on the joy sticks when the large case is aloft to end run or in low.
- Don't brake or to brusquely steer to high speed .
- Don't bear the intervention of bystanders in the ray of action of the machine
- At the end of every cycle of job, to worry himself/herself/themselves that the inside of the large case is clean. To lift the alone large case on solid or level ground.
- Maintain on the strong inclinations, the turned loaded large case always awry.

Every time that he abandons the mini-dumper , to leave him/it in safety, or rather with lowered large case, out motor and I brake mechanic of inserted parking.

#### 7.6 In action on the place of job

- Worry during every manoeuvre not to put to risk of it the proper of it other people's safety.
- Avoid every abrupt manoeuvre, particularly on uneven and slippery runs.
- Avoid the manoeuvres in descent with motor to tall regime of turns.
- Avoid to insist when the large case is aloft to end run or in low.
- Lift the alone large case when the machine is on terrestrial sure and level.
- Always avoid to unload with side inclinations, but to line up the machine in direction of the inclination.
- Progress with prudence in proximity of ditches, excavations, terrestrial yielding and similar.
- Verify every new run and to watch out for the points covered by grass, leaves or other.
- Reduce the speed and load on the most binding runs.

Progress with the turned large case awry when, to load, strong slopes and descents are faced.

##### 7.6.1 As to stop the machine

You softly leave the levers of transfer and stopped you. The motor must be allows to turn to empty slowly for about 2 minutes before switch off.

##### 7.6.2 As to leave the machine

You park the machine in a plain zone, don't leave never her in descent or in the dangerous zones. The machine is equipped of brake of manual parking, that you will have to insert for having the certainty that the machine doesn't stir.



**7.7 Lifting of the machine** The missed respect of the following rules can provoke serious damages, accidents or death.

Not you ever haul the mini-dumper. You use fit means for the transport. You use cables and appropriate tools for the lifting. The cables of lifting have to have an enough length to avoid the contact with the machine. To use organs of lifting suits for to bear the weight of the machine. Do never lift the machine with personal on board. To use cartellonistica and others you signal to delimit the zone of load. To always use cables and other devices with superior loads of breakup to 4T.

### 7.7.1 PROCEDURES OF LIFTING

On the machine they are anticipated points of hookup but you/he/she can be lifted through muletto making to climb on her/it on a pallet.

1. Give a sure and strong pallet to sustain the weight of the conveyor.
2. To position in a plain zone and with the empty large case and in lowered position to make to climb the machine and to center
3. .Stop the motor.
4. Verify that there are not obstacles or people around the machine.
5. .Lift the pallet with the machine from the ground of few centimeters and to verify that is well balanced.
6. Always transport however her to few earth centimeters, not to stir in reckless way and with the tall load from earth.

### 7.7.2 LOAD IS UNLOADED OF THE MACHINE



To load and to unload the machine, if possible, on terrestrial leveled and stable. If unloaded with Ramps, to use a ramp of enough length, width and thickness to bear the weight of the machine and at the same time allows the passage of the operator.. To avoid glide verified that them no is slippery. Never change direction on the ramps of load, to maintain a rectilinear transfer.

### 7.7.3 LOAD OF THE MACHINE ON THE MEAN OF TRANSPORT

To load and to unload the machine, if don't have a muletto to load her/it on a pallet, to Always use the ramps and to attentively follow the following procedure.

1. To stop the wheels of the truck before loading the machine.
2. To lower the banks of the truck.
3. To stop in safety the ramps to the truck. The ramps have to form with the Terrestrial an inferior angle to the 15°. The width of the ramps has to be Adjusted to the tracks and they have to foresee the passage of the operator.
4. to position the machine so that is found of forehead and with the parallel tracks to the ramps of load. Not do use anybody lever, excluded those of transfer, when her machine is found on the ramps of load.o maintain the center of gravity of the machine inside the area of the ramps of load.

### 7.7.4 BLOCK FOR THE TRANSPORT

1. Switch off the motor
- o insert the mechanical brake of parking and to assure the machine to the structure of the truck in opportune way.

### 7.8 PARKING MACHINE

At the end of every day of job it is necessary to follow the following procedures:

### 7.8.1 PARKING OF THE MACHINE

To conduct the machine in a sure place with flat ground.

1. Reduce the speed rotation of the motor..
2. Always lower the large case not to leave ever lifted before switch off the motor
3. Insert the mechanical brake
4. Switch off the motor,.



### 7.8.2 Under conditions of cold

*If are anticipated temperatures of strong cold both the tracks they have to be clean from the mud and from the dirt, the machine you/he/she must be parks on the wood tables.*

## MAINTENANCE

The machine doesn't ask for particular operations of maintenance. The technical solutions and the used components are such to be reduced the interventions of maintenance. However recommend him to perform a whole operations that you/they have the purpose to guarantee the safety, the reliability and the efficiency of the machine in the time.

### During the maintenance

- Intervenire sulla macchina solo dopo averla collocata/parcheggiata nella zona definita al punto 5.2
- In caso di problemi di tipo meccanico o elettrico, rivolgersi a un officina autorizzata.

To intervene only on the machine after having park in the zone defined to the point 5.2 In case of problems type mechanic or electric, to turn to an authorized shop. If the machine is off duty because of breakdowns, maintenance or reparation, to signal

with special poster. To always " use the devices of individual protection during the reparation and substitution of the elements of the machine. Interventions on the motor must be perform only from specialized personnel and authorized. Don't introduce the hands, the arms or parts of the body in proximity of the zone of movimentazione and transmission. Use a suitable device to remove possible deposits (brushes, wood extremity etc.): not to use only never the hands!

A regular maintenance prolongs the life of the machine, it assures the best performances and it constitutes a safety important factor. **8.1 Ordinary and extraordinary maintenance**

- To " clean the filter of the air after the first 50 hours , in case of job in environments a lot of dust , cleaning daily.
- To " verify the presence of possible losses of hydraulic oil.
- To " verify the serraggio of the whole bulloneria, particularly to daily check the tension of the tracks.
- To " replace the oil motor and to perform the other operations foreseen by the manufacturer of the motor (to see book education of the motor furnished in enclosure to the manual present)

To " perform all the operations of maintenance daily, weekly, fortnightly and following following you list.

### **8.2 MAINTENANCE : daily perform at the end of the job**

To eliminate every anomaly that was manifested.

- Clean the interior vessel
- To fatten up all the points of lubrication, with firm motor and large case in position of rest.
- To attentively verify the state of the tracks.
- To verify if during the job losses of oil or fuel are verified, it is enough to give a glance to the organs of the machine, not they owe us to be stains that you report some losses.

### **8.3 MAINTENANCE : weekly**

- Clean the element air filter motor and lowered large case.

### **8.4 MAINTENANCE :every 250 hours work**

- To " replace oil motor to see the instructions of the manufacturer of the motor.
- Clean the cartridge of the filter fuel.
- Replace the element I filter air.
- Replace the cartridge filter hydraulic oil..



### **8.5 MAINTENANCE every 500 hours work**

- To " replace oil motor to see the instructions of the manufacturer.  
Replace hydraulic oil.

To always remember himself/herself/themselves that the oil is a special refusal and as such managed to terms of law. Alternate him proposed they are tied up to the type of environment in which the machine is used, very dusty environments they for example ask for more frequent interventions of cleaning of the filter air.

### **8.6 TAVOLA DI**

#### **RECOMMENDED LUBRIFICANTS**

Position	Quantity	Frequency	Characteristics
170F ENGINE	Max. 0,6 lt	250 HRS (In beginning 20 hrs)	SAE 10W-30
HYDRAULIC OIL	Capacity 16 lt	500 hours	HYDRAULIC OIL LONG DURATION ISO N° 46

### **8.7 CONTROLS AND MAINTENANCE IF NECESSARY**

#### **8.7.1 Control tension tracks**

1. Screw the die anteriorly set up to that the tension of the track has not returned to that volute.
2. T conform the tension on both the sides, to move the minidumper before and back and to verify again the uniformity of the tensionamento.
3. Verify at the end that both the tracks are tense equally, otherwise to repeat the operations.



#### **8.7.2 Rubber tracks maintenance**

Rubber tracks needs to be changed or revised as follow indications

1. Height of the outrider The rubber tracks can be used even if worn, however if



excessively consumed, the tracks can skid and therefore to apply a greater application of power to the motors of traction. If the remained outrider is inferior or equal to 5 mm is advisable to replace the track with one new original.

**2. Exposure of the steel ropes** If the steel ropes of a track in rubber are exposed because of an excessive usury or for damages, to replace the track with one new original

### **3. Cut of the steel ropes of the tracks in rubber.**

When a cut is noticed in the steel ropes to immediately replace the track. If the substitution is not effected keeping on working you/he/she can happen that the track breaks him completely to the sudden one and this can provoke accidents and the lock machine if don't have an exchange

### **4. Cracks on the coverage in rubber**

If a crack of 30 mms is visualized or more than length and 8 mms or more than depth, to immediately mend the rubber. If the steel ropes appear even if the crack is smaller to immediately mend the track. Otherwise the water that enters the crack can rust the steel ropes or to provoke the breakup of the track.

### **8.7.3 Formalities of control of the level hydraulic oil**

**Always clean the zone around the cork before removing him/it. Do never overcome the maximum level of hydraulic oil in the reservoir. Never use the machine when the level of the oil overcomes the maximum one (full) e/o when inferior to the least one (to add).**

1. to position the machine on plain ground with piston of the completely wide large case.

2. Verify that the level of the oil is correct.

3. If necessary add oil

4. Clean and to put again the cork loaded oil B. Per to bring in pressure the reservoir to make reference to the section "substitution hydraulic oil" of this manual cap 8.7.10.

### **8.7.4 FILLING RESERVOIR FUEL**

To add the fuel, spengere the motor, to remove the cork set above the reservoir of the gasoline pointed out with special label to proceed to the addition of the necessary fuel using the funnel in endowment. After the restocking to make sure himself/herself/themselves to have closed again well the cork before putting again in motion.

Attention!! to Use only gasoline without lead.



### **8.7.5 Controls and maintenance every 50 hours**

**eaning element filter air. To perform the maintenance of the filter of the motor air extinguished for avoiding damages to the same. Don't clean the elements filter with hits or bumps (not to beat him/it). not to use elements filter with damaged parts to prevent damages to the motor. When the compressed air is used for the cleaning of the elements filtranti to wear protections for the face and respiraton, gloves and fit garments for such operations. For the operations of cleaning of the element filter of the air to make reference to the manual of instructions of the motor. Note: Filter can be clean for 5 time, then you have to change.**

8.7.6 Controls and maintenance every 50 hours Substitution oil motor **Oil or warm parts can cause accidents. Don't bring oil or warm parts to contact with the skin.** To avoid problems with the motor to never overcome the maximum level of lubricating oil.

**An excess of oil of the motor can provoke the breakup of it.**

**Never turn on the motor when the level of the oil overcomes the maximum inferior e/o to the least one. For the operations of substitution of the oil motor to make reference to the manual of instructions of the motor. Attenzione !! Ricordarsi sempre che l'olio e i filtri usati sono rifiuti speciali e come tali devono essere gestiti a termini di legge.**

### **8.7.7 Cleaning fuel**



**Attention!!**

**The lost fuel on warm surfaces can provoke a fire.**

**Also the fuel is a special refusal to follow to the norms vigenti for the disposal of the residual liquids. For the operations of cleaning of the cup fuel to make reference to the manual of instructions of the motor.**

### **8.7.8 Substitution filter air**

For the operations of substitution element filtrante air to make reference to the manual of instructions of the motor.

### **8.7.9 Substitution of the machinetridge of the filter hydraulic plant**

The filter is located under the flatmachine of load. lift the flatcar and to extinguish the motor To loosen the cork loaded oil (1) for depressurizzare the circuit

To clean the zone to maintain the dirt to the outside of the body of the filter (2).

4. Position under a container suitable to the filter to pick up the possible spillages of oil that can be happened during the operations of substitution of thetridge filtrante. Note: always follow to the norms vigenti for a disposal of the exhausted oil and the used filters.

5. using a special key to unscrew the cartridge filter (3) turning counter clockwise in sense. To clean the body (2). **Note** The cartridge filter must have replaced. Riutilizzare is not possible one cartridge already used.

6. to apply some oil on the ring of estate (4) 7. to insert the new cartridge (3), to manually press in position, here to tighten with the special key of a turn. 8. to start the motor and to check the level of the hydraulic oil  
9. you again pressurize the reservoir: After having completely wide the cylinder with the cork (1) open, to close again the cork of filling of the reservoir. 10. You check if there are losses from the cartridge (3)

#### 8.7.10 Controls and maintenance every 500 hours



##### Substitution hydraulic oil

**You contact with oil or warm parts you/they can provoke burns.**

**To temperature of exercise, the reservoir of the oil is warm and could be under pressure. To remove the cork of load oil (1) slowly so that to make to go out the pressure of the inside of the reservoir.**

**To remove only the cork of load oil to out motor and when the same is enough cold to be able him to remove barehanded.**

1. Position the machine on plain ground with the cylinder of the completely wide large case.
2. Insert the sure one against the accidental lowering and to extinguish the motor.
3. Clean the zone to maintain the dirt to the outside of the reservoir.
4. Loosen the cork of load of the oil for depressurizzare the reservoir..

Remove the oil from the reservoir using a fit pump picking up him/it in a fit container to contain around 20Lt.

**Note: to digest oil and filters used according to the normative .**

5. To rinse the inside of the reservoir with clean oil..
6. To fill the reservoir with hydraulic oil. (For the choice of the proper oil to see chart paragraph 8.6).
7. to start the motor for a few minutes holding him/it to low regime of turns.
8. to operate the levers of control to do so that the whole hydraulic circuit begin full..
9. to bring the machine under the initial conditions and to extinguish the motor.
10. To check the level of the hydraulic oil and to add of it if necessary to maintain the suitable level on the level.
11. To pressurize the reservoir hydraulic oil; with the cylinder of the completely wide flatcar to remove and to put again to his/her place the cork of load.

To support the large case to the loom and switch off the motor.

#### 8.7.11 Parking for a lot f time

- To store the machine for long time to perform the following procedure:

To " clean the machine and to store to the covered one. If it is had to store to the outside, to set the machine on a plain ground and to cover her/it.

To " apply fat on the parts exposed of the cylinder (stem), to fatten up all the pivots and the mobile parts.

- " During the storage to turn on once the machine a month to maintain the film of oil of lubrication. **If the machine is inside a store. To prevent the rust is good norm to have local ventilated.**
- **At the end of the storage:**
- **Remove the fat from the stem of the cylinder**
- **Make sure himself/herself/themselves some level of filling of the reservoirs of the fuel and the lubrication.**

#### 9. Problems, probable causes, formality of intervention

PROBLEMS	PROBABLE CAUSES	FORMALITY OF INTERVENTION
Hard joy stick or that doesn't automatically return back	<ul style="list-style-type: none"> <li>• Inefficient distributor.</li> </ul>	<ul style="list-style-type: none"> <li>• Ask for intervention assistance.</li> </ul>
impossible any movement or it misses power	<ul style="list-style-type: none"> <li>• Oil hydraulic insufficient.</li> <li>• Filter clogged oil.</li> <li>Lowering of the power of the motor.</li> <li>• Breakdown of the pump or the joint.</li> <li>• Defective control valve.</li> </ul>	<ul style="list-style-type: none"> <li>• Fill up to level</li> <li>• Perform maintenance filter oil.</li> <li>• perform maintenance I filter air and to check the feeding.</li> <li>• Ask for intervention assistance.</li> <li>• Ask for intervention assistance..</li> <li>• Ask for intervention assistance..</li> </ul>
The traction doesn't work on one or both the sides.	<ul style="list-style-type: none"> <li>• An extraneous body as a stone, have been inserted.</li> <li>• Bad operation of the motor of traction.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the inserted material.</li> <li>• Ask for intervention assistance..</li> </ul>

Lack power of lifting flatcar	<ul style="list-style-type: none"> <li>• Lack hydraulic oil.</li> <li>• Damaged control valve..</li> <li>Lack to hydraulic cylinder.</li> </ul>	<ul style="list-style-type: none"> <li>• Fill up to the level.Ask for intervention assistance..</li> <li>• Ask for intervention assistance..</li> </ul>
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For other non suitable problem list, to contact the Technical support staff.

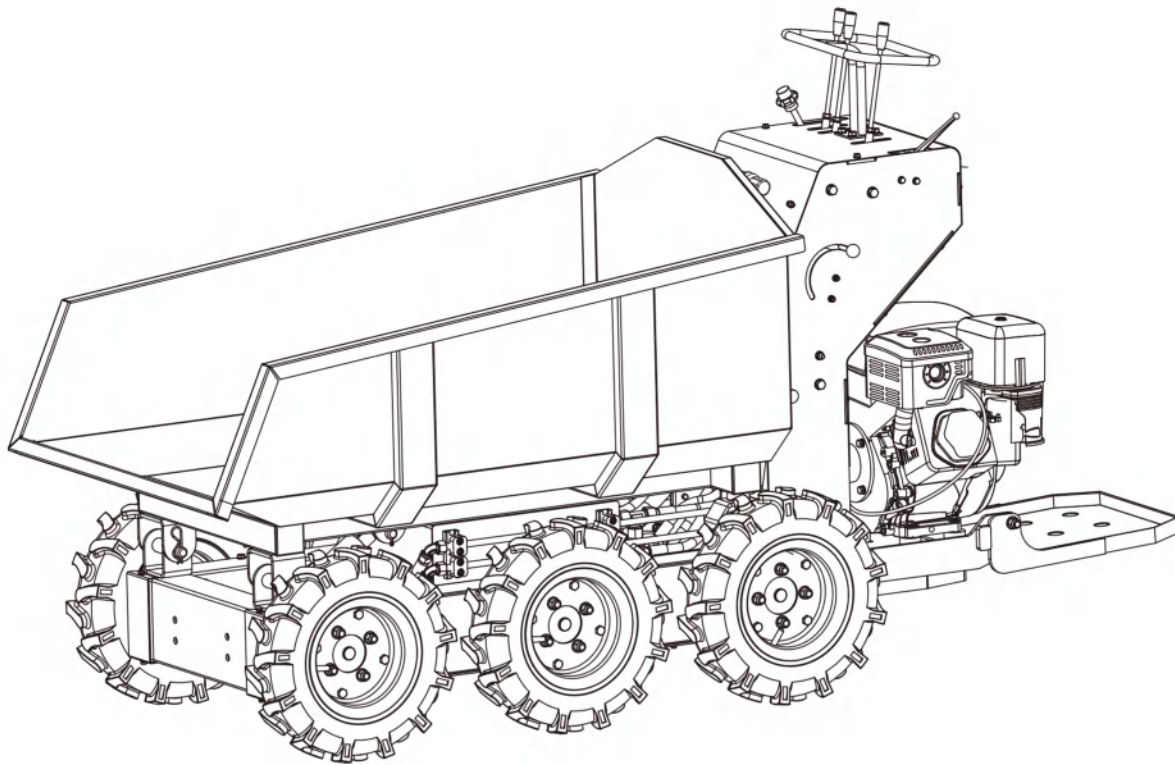
**ATTENTION!!!!!! WE DISCLAIM EVERY RESPONSIBILITY IN THE CASE IN WHICH THE MACHINE SUBMITTED IN MAINTENANCE ACCORDING TO THE PROCEDURES IS BROUGHT INDICATIONS AND IS NOT USED PARTS AND ORIGINAL ACCESSORIES.**





Save This Manual for Future Reference

Original Instruction



# Powered Wheelbarrow

## Operator's Manual

MODEL NUMBER : ☐ QTP600W

SERIAL NUMBER :

Both model number and serial number may be found on the main label.  
You should record both of them in a safe place for future use.

## FOR YOUR SAFETY

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE  
OPERATING MACHINE

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## INTRODUCTION

Your new powered wheelbarrow will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.



**Carefully read through this entire operator's manual before using this unit. Take special care to heed the cautions and warnings.**

The 2-speeds, lies at the heart of the unit. It is oversized so as to manage safely the huge torques generated by the engine. Thanks to its efficient reduction gearing, it is capable of moving around in every situation and bearing any load.

The **Engine manufacturer** is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the

**Engine Manufacturer's** owner's/operator's manual, packed separately with your unit, for more information.

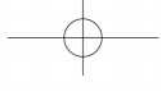
## Specifications

Item No.	QTP600W	
Engine	270cc, 9.0HP	
Transmission	Hydrostatic	
Load Capacity	600 kg	
Box Length	1250 mm	
Box Width	735 mm	
Box Depth	325 mm	
Tire Size	4.00-8	
Pump Flow	11.0 L/min	
Sound power level	101 dB(A) $k=2$ dB(A)	
Sound pressure level	81.5 dB(A) $k=2$ dB(A)	
Vibrating level on handlebar grips	Left	10.1 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
	Right	11.3 m/s <sup>2</sup> $k=1.5$ m/s <sup>2</sup>
Weight	316 kg	

## RECYCLING AND DISPOSAL



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or check with your local authority or local stores for advice of environmental safe recycling.



## SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.  
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



No smoking, sparks, or flames



Do not touch parts that are hot from operation. Serious burns may result.



Keep your hands clear from all rotating parts.



Never start or run the engine inside a closed area.



Do not operate on slopes with angle over 20° or tip loading at an inclined position.



Be aware, objects may be thrown while in use.



The exhaust fumes are dangerous, containing carbon monoxide. Staying in the environment can lead to unconsciousness and death.



Always turn off the engine before starting maintenance.



Keep children and bystanders off and away.

GB



## SAFETY

### General Safety Rules

#### Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and know how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.

Do not force the machine beyond its limits. Use the correct machine for your application.

#### Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly: Wear long, heavy pants, work boots, and work gloves. Do not wear loose clothing, short pants, or jewelry of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

#### Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn off the engine when running. Any gasoline powered machine that can't be controlled with the engine switch is dangerous and must be replaced.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service





on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

### **Engine Safety**

This machine is equipped with an internal combustion engine. Do not use on, or near, forest-covered or brush-covered land unless the exhaust system is equipped with a spark arrester meeting applicable local, state, or federal laws.

In the state of California, a spark arrester is required by law. Other states have similar laws. A spark arrester, if used, must be maintained in effective working order by the operator.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odorless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine in an effort to get it to run at higher speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a Class B fire extinguisher on hand when operating this machine in dry areas as a precautionary measure.

### **Fuel Safety**

Fuel is highly flammable, and its vapors can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. While adding fuel or operating the unit, do not smoke, and stay away from sparks, open flames, or other sources of ignition near the area of operation. Never fill the fuel tank indoors.

To avoid sparking or arcing, keep grounded conductive objects – such as tools – away from exposed, live electrical parts and connections. These events could ignite fumes or vapors.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Because engine heat can cause fuel to expand, never fill the tank to more than 1/2" below the bottom of the filler neck. This will provide space for fuel expansion.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine. Instead, move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for fuel storage.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel – or a machine with fuel in the tank – inside a building where fumes may reach a spark, open flame, or any other source of ignition (such as a water heater, furnace, or clothes dryer). Allow the engine to cool before storing in any enclosure.

**GB**

## Specific Safety Rules

Thoroughly inspect the area to be worked, keep the working area clean and free of debris to prevent tripping. Operate on a flat level ground.

Never place any part of your body where it would be in danger if movement should occur during assembly, installation, and operation, maintenance, repairing or moving.

Keep all bystanders, children, and pets at least 23m (75 feet) away. If you are approached, stop the unit immediately.

Do not mount anything on the dump box and never carry passengers

Never park the machine in a place with unstable ground which could give way, particularly when it is full.

Disengage clutch lever before starting the engine.

Start the engine carefully according to instructions and with feet away from the moving parts.

Never leave the operating position when the engine is running.

Always hold the unit with both hands when operating. Keep a firm grip on the handlebars. Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots.

Walk, never run with the machine.

**Do not overload the machine capacity. Drive at a safe speed, adjusting the speed to the slope of the land, the surface conditions of the road, and the weight of the load.**

Use extreme caution when in reverse or pulling the machine towards you.

Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

On soft ground, drive at the first forward/

reverse gear. Do not rapidly accelerate, turn sharply or stop.

Pay the utmost attention when working on frozen ground as the machine may tend to skid.

Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.

Never operate the machine on slopes where angle is over 20°.

When operating on a slope, whether moving forward or in reverse, always make certain that the weight is evenly balanced. Always move in directions parallel with the slope. Do not shift gears on slopes.

When dumping the contents of the hopper, the center of gravity will change continuously and the ground conditions will be essential for the stability of the machine. Use extra caution and control when dumping the hopper on e.g. wet clay.

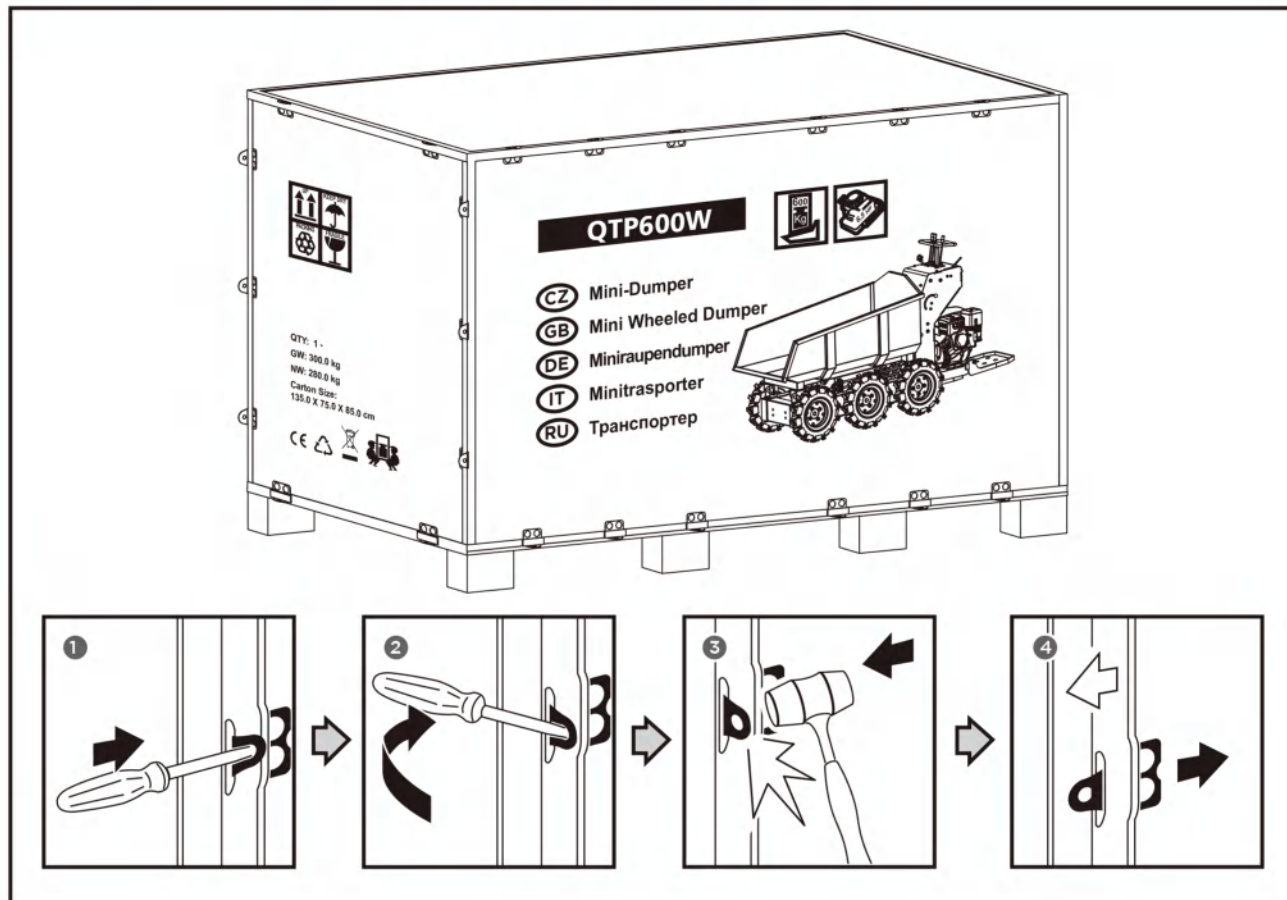




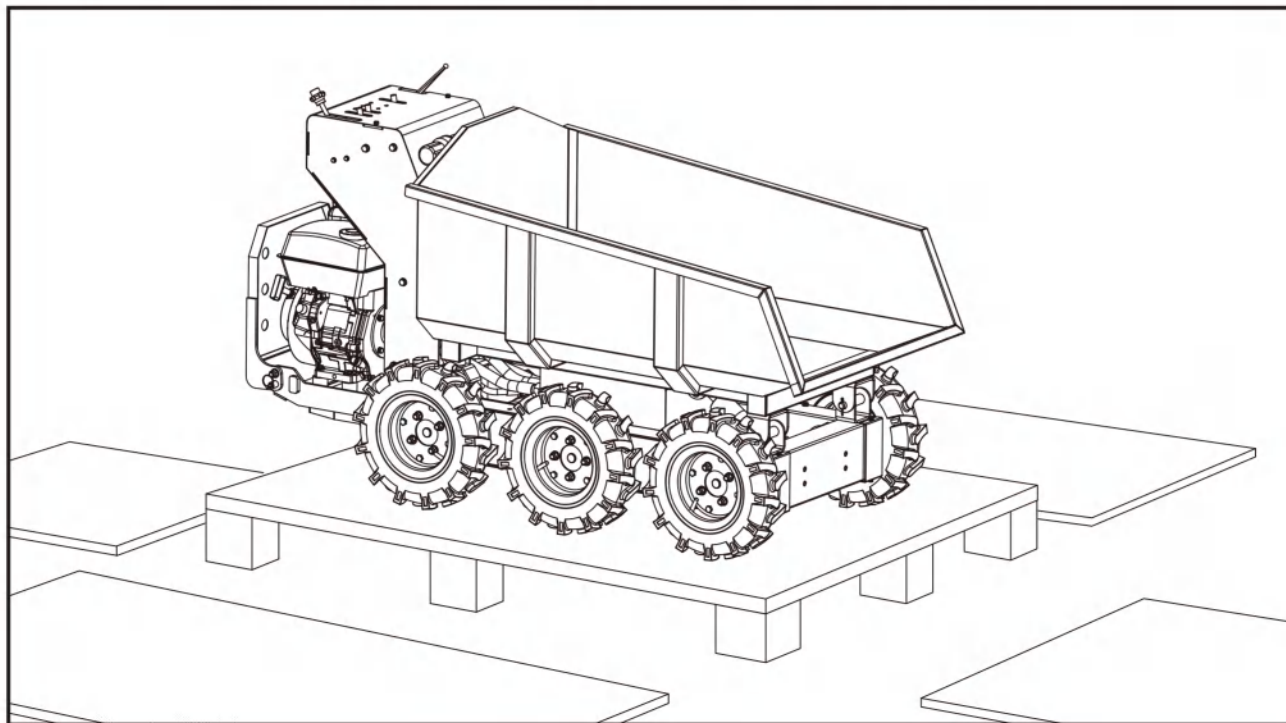
## UNPACKING THE CONTAINER

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Use the screwdriver and hammer to open all the side locks.



Remove all the plywood plates, and remove all the loose parts on the bottom pallets.

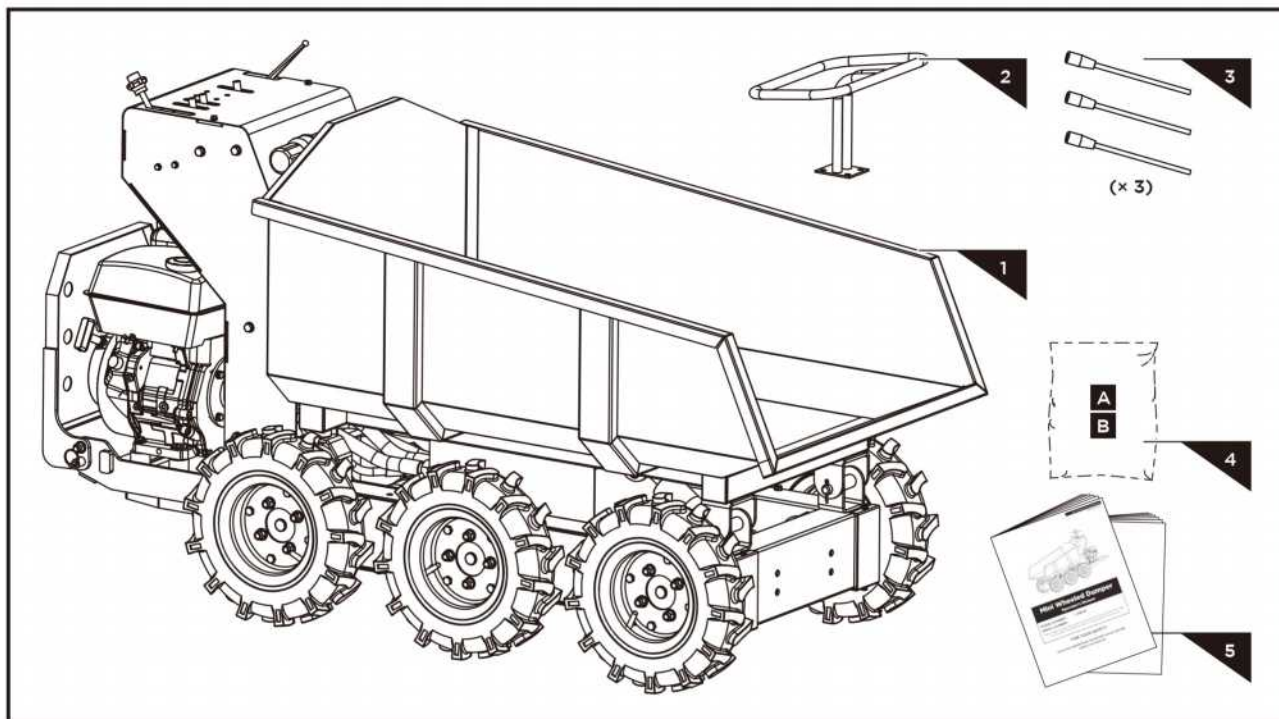


MINI WHEELED DUMPER

7

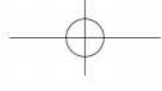
## CONTENTS SUPPLIED

The mini powered wheelbarrow comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



1. Main Body
2. Handle Assembly
3. Control Lever

4. Hardware Bag
5. Operator's Manual & Engine Manual

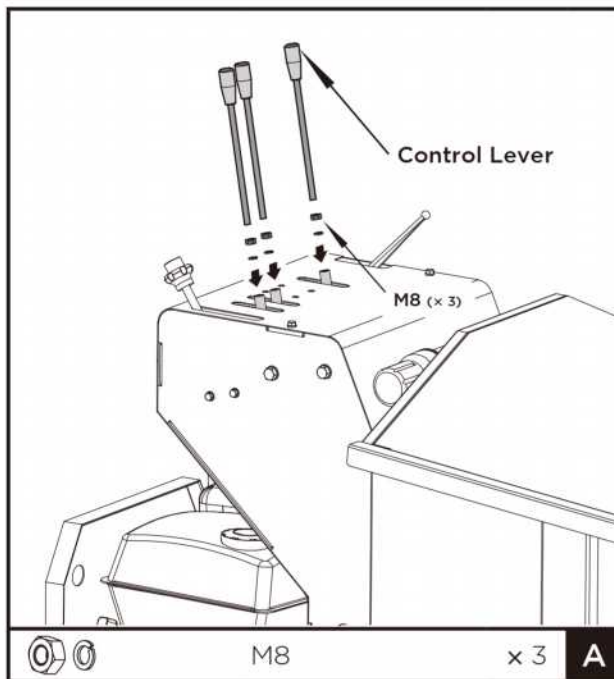


## ASSEMBLY

This mini powered wheelbarrow was partially assembled at the factory. To assemble your machine follow the below instructions.

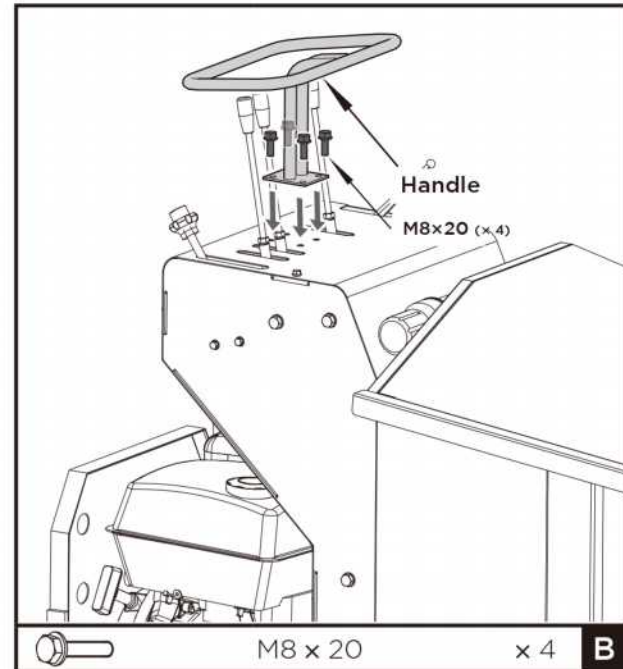
### Control Lever Assembly

Insert the control lever into the connecting sleeve with nut and spring lock. Tight the nut.



### Handle Assembly

Tightly fix the handle frame assembly on the operation board with four M8x20 bolts.



### Engine Oil

**OIL HAS BEEN DRAINED FOR SHIPPING.**



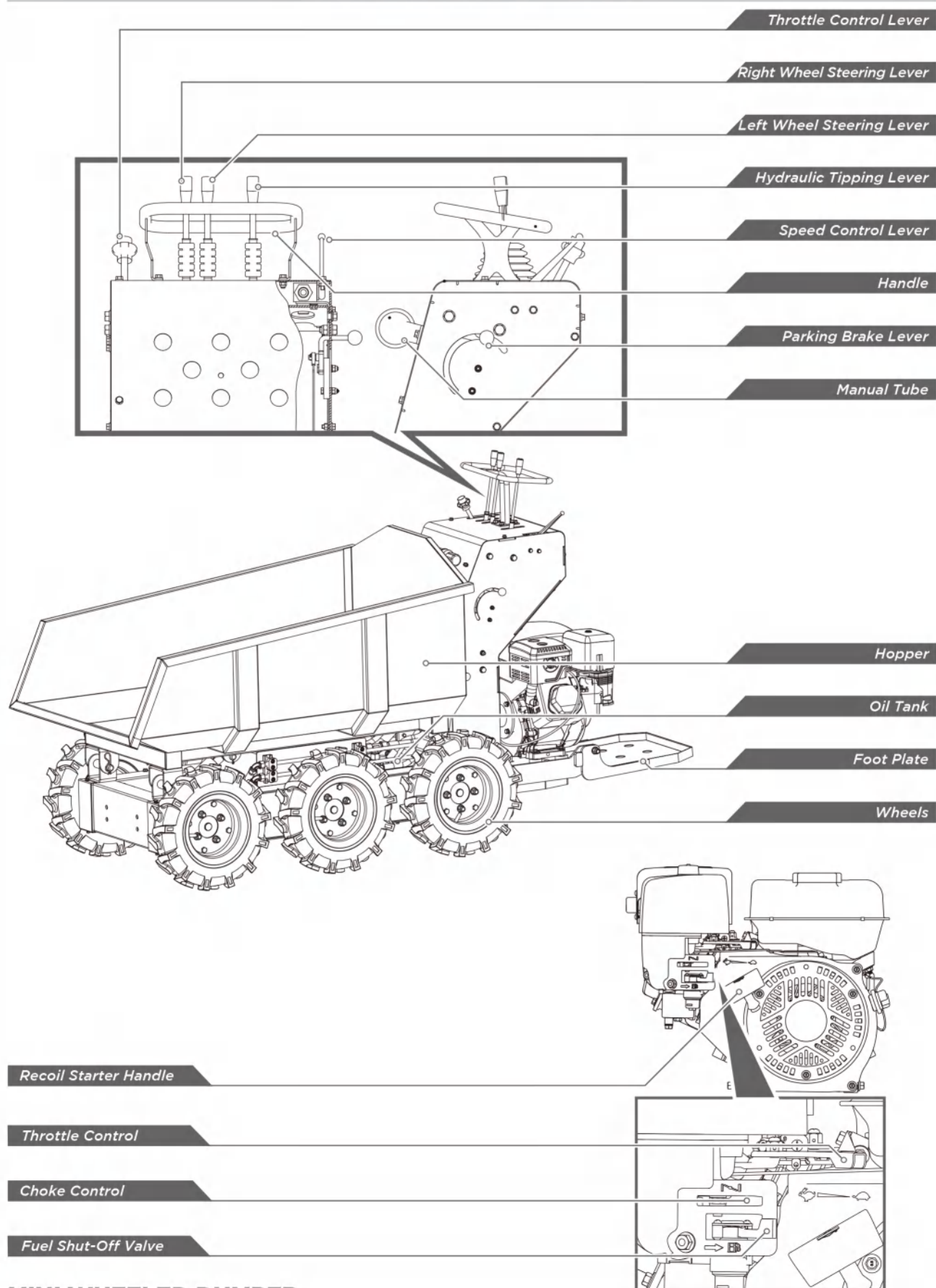
**Failure to fill engine sump with oil before starting engine will result in permanent damage and void engine warranty.**

Add oil according to **Engine Manual** packed separately with your track dumper.



# KNOW YOUR MACHINE

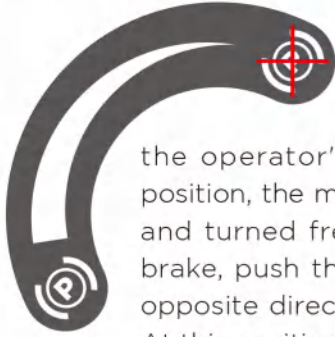
## Features and Controls



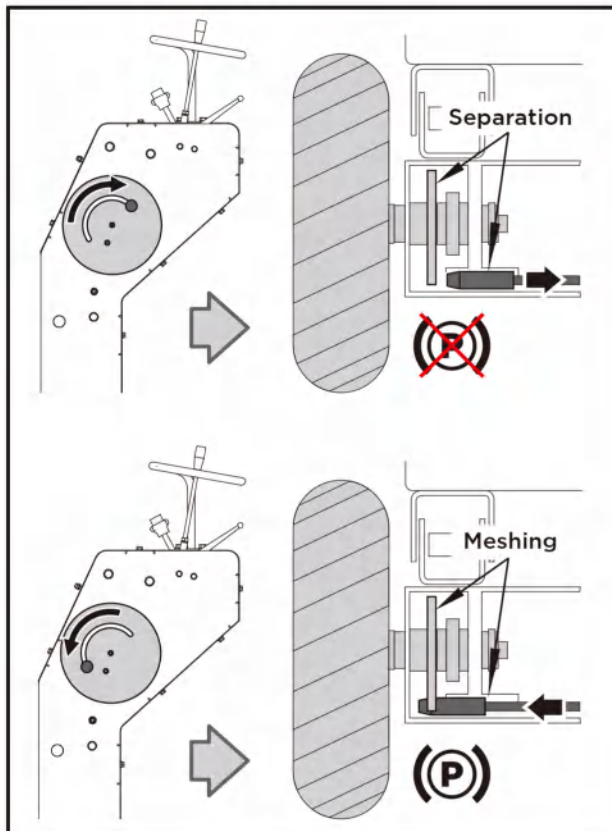


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### Parking Brake Lever



To release the brake, pull the brake lever to the operator's direction. At this position, the machine can be driven and turned freely. To engage the brake, push the brake lever to the opposite direction of the operator. At this position, the machine cannot be moved.



### Speed Control Lever

The speed control lever only has two positions: the highest speed and the lowest speed.



**Always release the clutch control lever before changing speeds. Failure to do so will result in damage to the power barrow.**

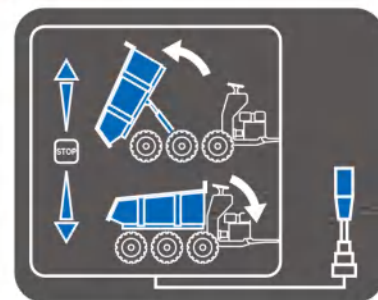
Slower speeds are for heavier loads, while faster speeds are for transporting light loads or an empty hopper. It is recommended that you use a slower speed until you are familiar with the operation of the power trackbarrow.

If the engine slows down under a load or the tracks slip, shift the machine into a lower gear.

If the front of the machine rides up, shift the machine into a lower gear. If the front continues to ride up, lift up on the handles.

### Hydraulic Tipping Lever

Use your left hand, push the lever to forward direction to tip the hopper, pull back the lever to flat the hopper in its original position.

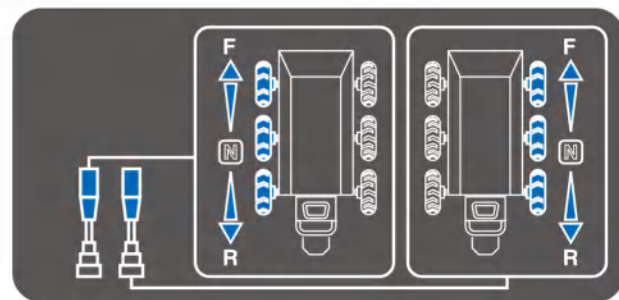


### Left/Right Steering Lever

Operate the lever to turn left/right.



**Operate the steering levers only at a reduced speed.**



### Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

### Recoil Starter Handle

The recoil starter handle is used to start the engine.

### Fuel Shut-Off Valve

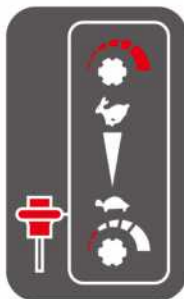
The fuel shut-off has two positions:

CLOSED (🛑) - Use this position to service, transport, or to store the unit.

OPEN (🚦) - Use this position to run the unit.

### Throttle Control

The throttle control regulates the speed of the engine, and moves between FAST 🏎️, SLOW 🐢, and STOP positions. The throttle control will shut off the engine when it is moved to the STOP position.



### Choke Control

The choke control is used to choke the carburetor and assist in starting the engine. The choke control slides between the CHOKE CLOSED 🚫 and CHOKE OPEN 🚦 positions.



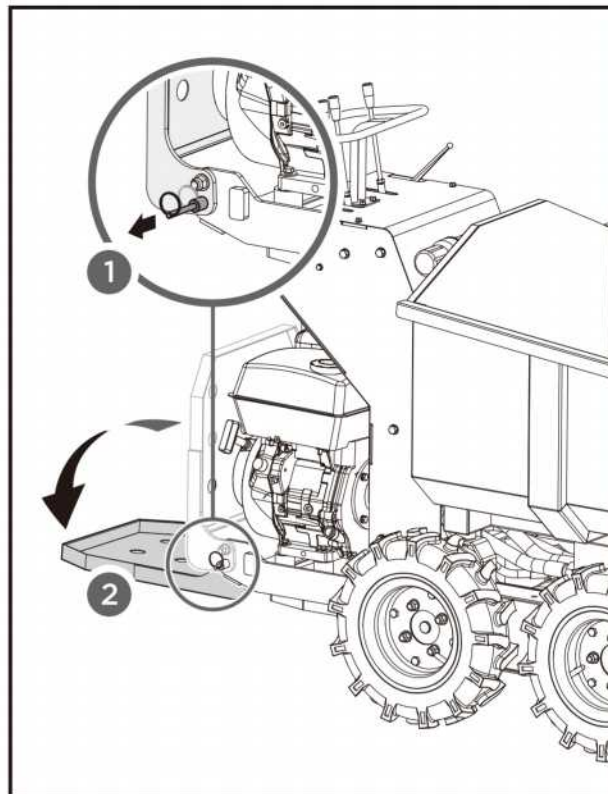
*Never use choke to stop engine.*

### Clutch Control Lever

Squeeze the control lever, clutch engaged. Release the lever, clutch disengaged.

### Foot Plate

Pull the ring on the pin outward to unlock the foot plate to flatten it. Simply lift up the plate to fold it.







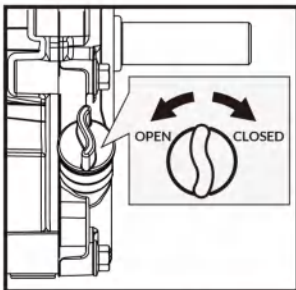
## Operation

### Add Oil To Engine



*The engine is shipped without oil. Do not start the engine before adding oil. Please refer to your engine manual for the proper grade of oil to add.*

1. Make sure the power trackbarrow is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)



**DO NOT OVERFILL.** Check engine oil level daily and add as needed.

### Add Gasoline To Engine



*Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.*



*Fill the fuel tank outdoors, never indoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.*

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

### IMPORTANT: DO NOT OVERFILL!



*This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.*

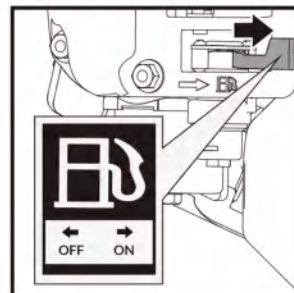
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

### Starting Engine

1. Move the engine switch to the ON position.



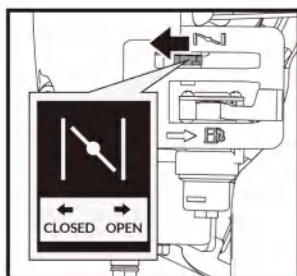
2. Open the fuel shut-off valve.



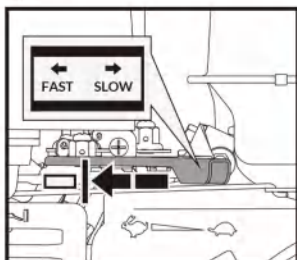
3. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.

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4. Move the throttle lever slightly to the FAST speed.



5. Pull the recoil starter until the engine starts. Return the recoil to the home position after each pull. Repeat the steps as needed. Once engine has started, set the throttle to the FAST position before you operate the unit.



**Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.**

### Operating

After engine warms up, pull throttle lever to accelerate engine speed.

The powered wheelbarrow has the steering levers on the handlebars and this makes steering very easy. To turn right or left, simply operate the corresponding right or left steering lever.

The sensitivity of the steering increases in proportion to the speed of the machine and that with the empty machine, a light pressure on the lever is all that is needed to turn. While when the machine is loaded, more pressure is required.

The powered wheelbarrow has a maximum capacity of 600kg. However, it is advisable to assess the load and adjust it according to the ground on which the machine will be used.

It is therefore advisable to cover such stretches using low gear and taking extra care. In such situations, the machine should be kept in low gear for the whole stretch.

Avoid sharp turns and frequent changes of direction while driving on the road, in particular on rough, hard terrains full of sharp, uneven points with a high degree of friction.

Remember to be careful when working in adverse weather conditions (ice, heavy rain and snow) or on types of ground that could make the powered wheelbarrow unstable.

When the clutch control lever is released, the machine will stop and brake automatically.

If the machine is stopped on a steep slope, a wedge should be placed against one of the wheels.

### Idle Speed

Set the throttle control lever to the SLOW position to reduce stress on the engine when work is not being performed. Lowering the engine speed will help extend the life of the engine, as well as conserve fuel and reduce noise level.

### STOP ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

1. Move the throttle lever to the SLOW (🐢) position.
2. Let the engine idle for one or two minutes.
3. Turn the engine switch to the OFF position.
4. Turn the fuel valve lever to the OFF (🔒) position.





***Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.***



***Do not move the choke control to CLOSE to stop the engine. Backfire or engine damage may occur.***

## MAINTENANCE

Maintaining your mini powered wheelbarrow will ensure long life to the machine and its components.

### Preventive Maintenance

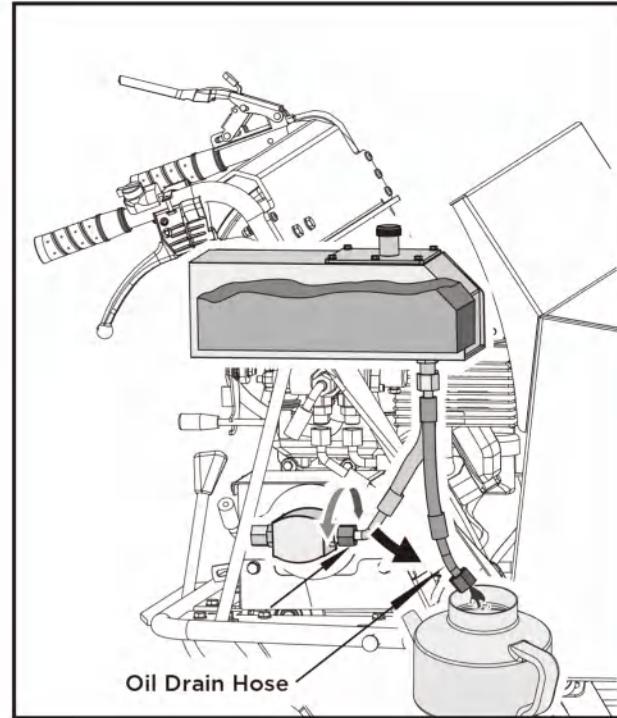
1. Turn off the engine and disengage all command levers. The engine must be cool.
2. Keep the engine's throttle lever in its SLOW position and remove the spark plug wire from the spark plug and secure.
3. Inspect the general condition of the power trackbarrow. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
4. Use a soft brush, vacuum or compressed air to remove all contaminants from the machine. Then use high quality light oil to lubricate all moving parts.
5. Check the spark plug wire regularly for signs of wear, and replace when needed.



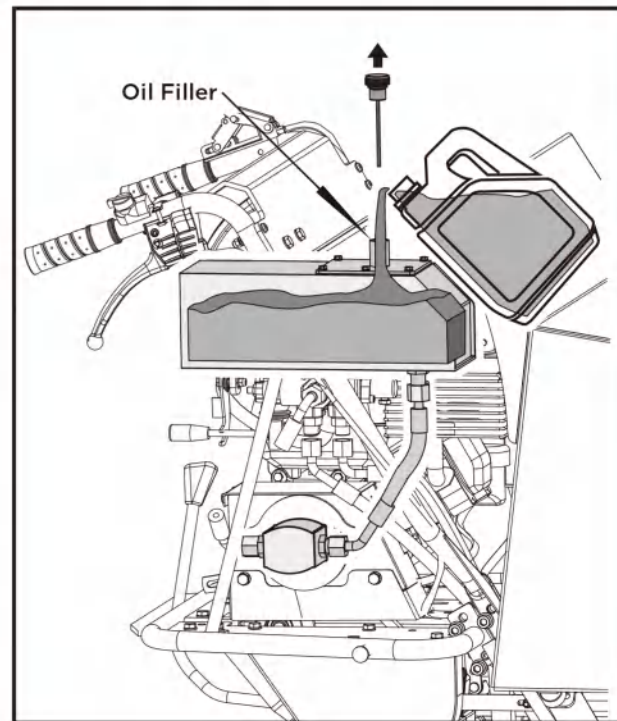
***Never use a "pressure washer" to clean your unit. Water can penetrate tight areas of the machine and its transmission case and cause damage to spindles, gears, bearings, or the engine. The use of pressure washers will result in shortened life and reduce serviceability.***

### Hydraulic Oil

Unscrew the locking nut to drain the oil into the pan.



Remove the oil dipstick and add the oil. The recommended hydraulic oil is 10W AW32, ASLE H-150, or ISO 32. Tank Capacity is 3L.





## Tire Pressure

Check the pressure of tires periodically to make sure they are properly inflated. Recommended pressure is 30psi for all the tires.

***Separation of tire and rim parts is possible when they are serviced incorrectly.***

***Do not attempt to mount a tire without the proper equipment and experience to perform the job.***



***Do not inflate the tires above the recommended pressure.***

***Do not weld or heat a wheel and tire assembly. Welding can structurally weaken or deform the wheel. Heating can cause an increase in the air pressure resulting in burst.***

***Do not stand in front or over the tire assembly while inflating.***

## Engine Maintenance

Refer to the Engine Manual included in your unit for the information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the tasks.

## STORAGE

If the mini powered wheelbarrow will not be used for a period longer than 30 days, follow the steps below to prepare your unit for storage.

1. Drain the fuel tank completely. Stored fuel containing ethanol or MTBE can start to go stale in 30 days. Stale fuel has high gum content and can clog the carburetor and restrict fuel flow.
2. Start the engine and allow it to run until it stops. This ensures no fuel is left in the carburetor. Run the engine until it stops. This helps prevent gum deposits from forming inside the carburetor and possible engine damage.
3. While the engine is still warm, drain the oil from the engine. Refill with fresh oil of the grade recommended in the **Engine Manual**.
4. Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.



***Do not use strong detergents or petroleum based cleaners when cleaning plastic parts. Chemicals can damage plastics.***

5. Inspect for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.
6. Store your unit on flat ground in a clean, dry building that has good ventilation.



***Do not store the machine with fuel in a non-ventilated area where fuel fumes may reach flame, sparks, pilot lights or any ignition sources.***



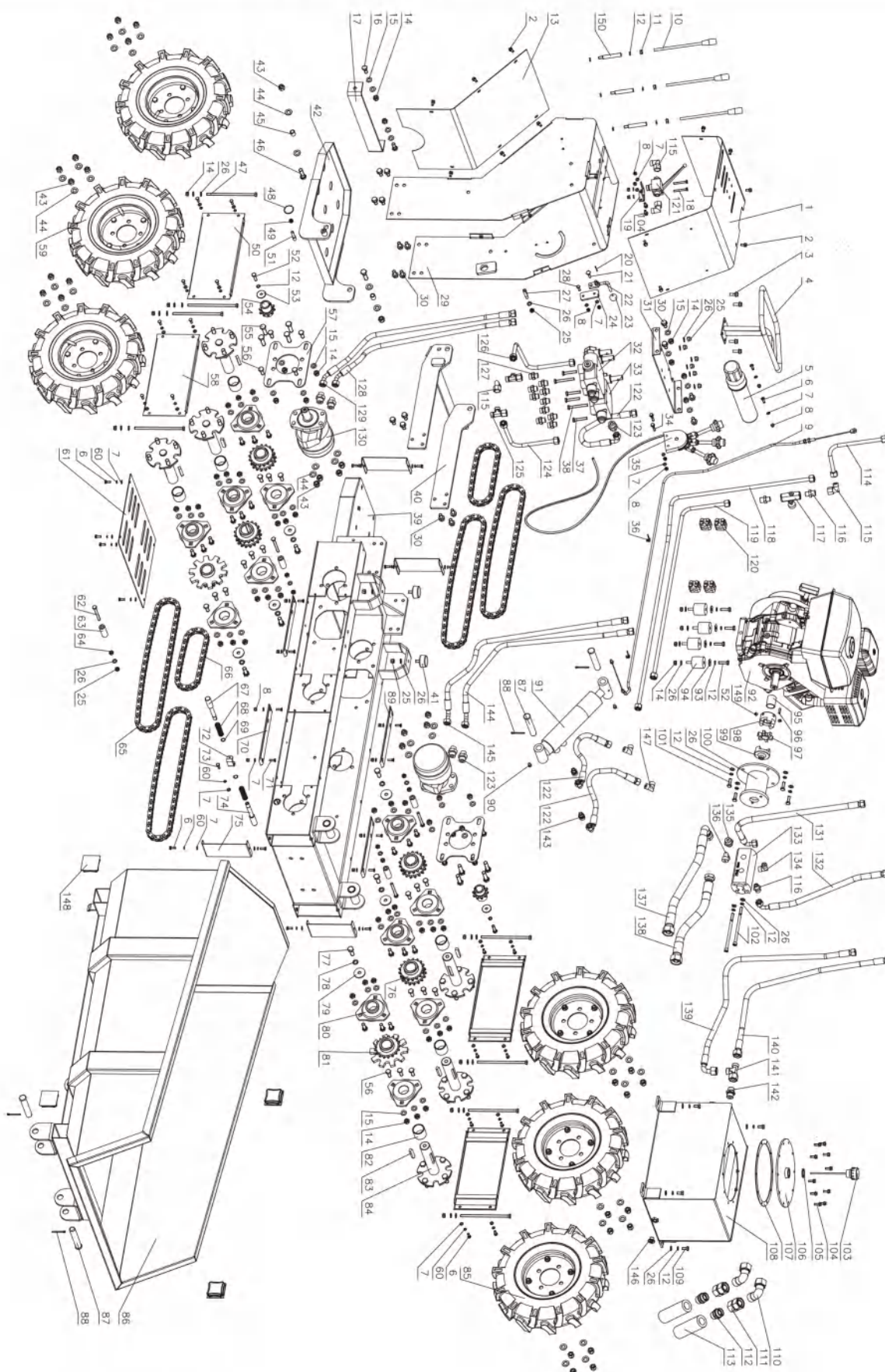
## TROUBLE SHOOTING

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Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"><li>1. Spark plug wire disconnected.</li><li>2. Out of fuel or stale fuel.</li><li>3. Choke not in open position.</li><li>4. Blocked fuel line.</li><li>5. Fouled spark plug.</li><li>6. Engine flooding.</li></ol>	<ol style="list-style-type: none"><li>1. Attach spark plug wire securely to spark plug.</li><li>2. Fill with clean, fresh gasoline.</li><li>3. Throttle must be positioned at choke for a cold start.</li><li>4. Clean the fuel line.</li><li>5. Clean, adjust gap, or replace.</li><li>6. Wait a few minutes to restart, but do not prime.</li></ol>
Engine runs erratically.	<ol style="list-style-type: none"><li>1. Spark plug wire loose.</li><li>2. Unit running on CHOKE.</li><li>3. Blocked fuel line or stale fuel.</li><li>4. Vent plugged.</li><li>5. Water or dirt in fuel system.</li><li>6. Dirty air cleaner.</li><li>7. Improper carburetor adjustment.</li></ol>	<ol style="list-style-type: none"><li>1. Connect and tighten spark plug wire.</li><li>2. Move choke lever to OFF.</li><li>3. Clean fuel line. Fill tank with clean, fresh gasoline.</li><li>4. Clear vent.</li><li>5. Drain fuel tank. Refill with fresh fuel.</li><li>6. Clean or replace air cleaner.</li><li>7. Refer to Engine Manual.</li></ol>
Engine overheats.	<ol style="list-style-type: none"><li>1. Engine oil level low.</li><li>2. Dirty air cleaner.</li><li>3. Air flow restricted.</li><li>4. Carburetor not adjusted properly.</li></ol>	<ol style="list-style-type: none"><li>1. Fill crankcase with proper oil.</li><li>2. Clean air cleaner.</li><li>3. Remove housing and clean.</li><li>4. Refer to Engine Manual.</li></ol>
One of the two tracks is blocked.	Foreign bodies have worked their way between the track and the frame.	Remove the foreign body.
Machine does not move while engine is running.	<ol style="list-style-type: none"><li>1. Gear is not properly selected.</li><li>2. Driving tracks not tight enough.</li></ol>	<ol style="list-style-type: none"><li>1. Ensure gear lever is not in-between two different gears.</li><li>2. Tighten driving tracks.</li></ol>



## PARTS SCHEDULE







## Parts List

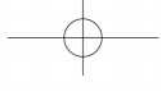
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No.	Description	Q'ty
1	Control Lever Rest Board	1
2	Bolt M6x12	12
3	Bolt M8x20	4
4	Handle Frame Assembly	1
5	Manual Tube	1
6	Bolt M6x16	30
7	Washer 6	47
8	Nut M8	18
9	Brake Cable	1
10	Control Lever	3
11	Nut M8	3
12	Spring Washer 8	21
13	Operation Frame Rear Cover	1
14	Nut M10	50
15	Flat Washer 10	52
16	Bolt M10x25	2
17	Connecting Plate	1
18	Bolt M6x45	2
19	Ball Valve Support Bracket	1
20	Cotter Pin 2x12	1
21	Revolving Shaft	1
22	Parking Brake Lever	1
23	Handle Ball M8x25	1
24	Parking Brake Lever Backing Plate	1
25	Nut M8	25
26	Flat Washer 8	43
27	Cable Fixing Shaft	1
28	Bolt M6x25	1
29	Control Lever Rest Board Frame	1
30	Bolt M10x20	18
31	Control Lever Mounting Plate	1
32	Multi-Way Valve AMV50/2	1
33	Multi-Way Valve AMV50/1	1
34	Bolt M6x30	2
35	Throttle Control Lever Assy	1

No.	Description	Q'ty
36	Cable Tie	2
37	Bolt M8x45	4
38	Bolt M8x65	2
39	Chasis	1
40	Foot Plate Mounting Bracket	1
41	Rubber Pad	2
42	Foot Plate	1
43	Nut M12	34
44	Flat Washer 12	36
45	Rotary Guide Sleeve	2
46	Bolt M12x35	2
47	Bolt M8x175	8
48	Pull Ring	1
49	Restoring Spring	1
50	Side Cover Plate (Rear)	2
51	Pin	1
52	Bolt M8x30	6
53	Big Flat Washer	2
54	Sprocket Wheel	2
55	Bolt M12x40	8
56	Bolt M10x25	44
57	Hydraulic Motor Mounting Plate	2
58	Side Cover Plate (Front)	2
59	Wheels (Right)	3
60	Washer 6	29
61	Hydraulic Motor Protecting Plate	1
62	Bolt M8x75	4
63	Chain Support Bush	4
64	Nut M8	4
65	Chain 10B-1-76	4
66	Chain 10B-1-32	2
67	Brake Shaft 1	1
68	Spring	2
69	Circlip 12	2
70	Chain Pad (Right)	2

No.	Description	Q'ty
71	Screw M6x16	8
72	Brake Connecting Plate	1
73	Bolt M6x20	1
74	Brake Shaft 2	1
75	End Protecting Plate	4
76	Dual Sprocket Wheel Weldment	4
77	Bolt M12x25	6
78	Washer 12	6
79	Thick Gasket 40x12.5x4	6
80	Bearing UBPFT207	12
81	Single Sprocket Wheel Weldment	2
82	Front Wheel Shaft Bush	6
83	Key A10x60	6
84	Front Wheel Shaft Weldment	6
85	Wheels (Left)	3
86	Hopper	1
87	Pin B20x110	4
88	R Pin B35x3x60	4
89	Chain Pad (Left)	2
90	Oil Cup M6	2
91	Cylinder	1
92	Engine	1
93	Widening Washer 8	4
94	Rubber Shock Absorber	4
95	Bush	1
96	Key C7x22	1
97	Coupler Cushion	1
98	Coupler (Right)	1
99	Coupler (Left)	1
100	Connecting Flange Weldment	1
101	Bolt M8x25	4
102	Screw M8x150	2
103	Dipstick	1
104	Bolt M6x16	12
105	Seal Washer Groupware 27	1
106	Oil Tank Cover	1
107	Rubber Seal Gasket	1

No.	Description	Q'ty
108	Oil Tank	1
109	Bolt M8x16	4
110	90° Angle Fitting	2
111	Live Fitting	2
112	Filter Fitting	2
113	Filter M27x2	2
114	Hopper Tipping Oil Return Hose 1	1
115	90° Angle Fitting	4
116	Throttle Valve Fitting	3
117	One-Way Throttle Valve	1
118	Hoper Tipping Oil Inlet Hose	1
119	Hopper Tipping Oil Return Hose 2	1
120	Hose Clamp	4
121	Ball Valve	1
122	High Pressure Connecting Hose	3
123	Valve and Motor Joint Fitting	5
124	Ball Valve Oil Return Hose	1
125	T-Fitting	2
126	Ball Valve Oil Inlet Hose	1
127	Multi-Way Valve Joint Fitting	10
128	Hydraulic Motor Oil Hose 3	1
129	Hydraulic Motor Oil Hose 4	1
130	Hydraulic Motor	2
131	Gear Pump Oil Outlet Hose (Long)	1
132	Gear Pump Oil Outlet Hose (Short)	1
133	Gear Pump	1
134	Pump Oil Outlet Hose Bent Fitting	1
135	Pump Oil Suction Hose Straight Fitting	1
136	Pump Oil Suction Hose Bent Fitting	1
137	Pump Oil Suction Hose (Long)	1
138	Pump Oil Suction Hose (Short)	1
139	Oil Return Hose (Long)	1
140	Oil Return Hose (Short)	1
141	T-Fitting M22x1.5	1
142	Oil Tank Oil Return Hose Straight Fitting	1



No.	Description	Q'ty
143	Cylinder Oil Hose Fitting	2
144	Hydraulic Motor Oil Hose 2	1
145	Hydraulic Motor Oil Hose 1	1
146	Oil Plug M14x1.5	1
147	Hose Angle Fitting	2
148	End Cap	4
149	Screw M8x10	2
150	Control Lever Connecting Sleeve	3

**GB**



## Mini Dumper QTP1000 Operated Manual



Thanks for buying our products.

In order to make you use machine safety, here records some details about the usage method, maintenance and inspection.

Please use it correctly on the basis of reading and understanding.

### Warning

- Do not drive, maintain or inspect the product before reading and understanding this manual.
- Please be sure to do operation, maintenance and inspection according this manual.
- Please keep this manual properly for use



## About the products

### Warning

- This product is potentially dangerous, please be sure to do operation, maintenance and inspection according this manual.
- This products is agricultural transporter, please do not use them for other purposes.
- This car is only allowed to be hoisted onto the car for transit, NO overloading, our company will not be responsible for accidents caused by overloading.
- It is strictly forbidden to drive on highways, national highways and other roads, our company will not be responsible for accidents caused by this.
- Do not transform this product. What's more, do not take off the protect mask to avoid accident

### Safety Notice

#### Notice about safe driving and working

Here is a record of the general safety matters that must be observed during driving and work and the prescribed safety items during driving work. Always keep in mind safe driving and safe work.

#### Notice before driving.

Wear safety clothes and protective gear correctly.

Do not wear light clothing such as vests, shorts, slippers, etc.

#### Checking before working.

Please check the machine carefully before working, to deal with if there's something wrong.

#### Warning Fire

Please stay away from fire when with fuel.

In addition, please add oil after turning off engine.

#### Do not sitting

This machine cannot be sitting or sitting while driving .

#### Do not reckless driving

Do not driving when drunk or sick. In addition, don't operate by someone who cannot drive or work.



## Notice about driving.

Do not driving at poorly ventilated areas.

Please stay at ventilated areas when start and using engine to avoid exhaust poisoning.

## Follow the safe speed

Please confirm the safety around while forwarding, confirm the road conditions and driving in safe speed.

## Do not start, accelerate, turn or brake suddenly

It is strictly forbidden to start, accelerate, turn or brake suddenly, it is easy to cause accidents such as the driver being swung up or the vehicle slipping or overturning.

## Pay attention to sloping roads

Keep low speed on sloping roads to avoid the

## Do not cross or turn on sloping roads.

Don't cross the sloping road to avoid vehicle slipping or overtuning

What's more, don't turn on sloping road to avoid vehicle reversing, slipping or overturning.

## Follow the instructions from director when driving

## on dangerous areas

Please follow the instructions when driving on poor driving environment such as invisible, narrow , sloping and uneven road, confirm safety before moving.

## Notice when loading

No overloading.

Do not over the max limits of this machine.

## Please load the goods properly

To prevent uneven load weight, which may lead to vehicle tilt, please place the goods evenly and fixed by rope.

What's more, pay attention to the loading height, don't block the view.

## Pay attention on weight limits

Please ensure the total weight of machine, driver and goods not over the limits of bridge when cross it, and moving within speed limits.

## Pay attention on weight limits of sloping space

When running on the sloping space with 15-20 degree, the loading weight should be controlled under half of standard limits. When 20-25 degree sloping road, please moving with empty truck, do not moving on road which slope more than 25 degree.





## Do not dumping on sloping road

Do not dumping on sloping road, it is easy to make the machine overturning. Please keep flat of machine body if it has to do.

## Notice about stopping

Do not stop the machine in dangerous space, please stop at the road with a hard foundation.

## Fix the wheels when stop at sloping space

Do not stop at sloping space, is it has to do, please fix the wheels.

## Notice about maintenance

Turn off the engine when doing maintenance and checking.

## Take care about scald

All the parts and oil still hot when engine just turned off, easy to be scalded. Please do maintenance after the machine became clod.

## Warning fire

Please stay away from fire while doing maintenance.

## Do not reply on or pressing on handle bar.

# About three guarantees and after-sales service

## About the three guarantees

This product with three guarantees certificate, please check.

## About after sale service

If there any questions, problems while using or some requests to after sale service, please contact directly with store or our after sale service center. Please inform the item information like manufacturing number , engine brand and item number on the item label. The engine brand and item number, please refer as the "Technical data sheet " in this manual. This product only guaranteed the parts not in charge of repairing in warranty.

Only accessories are provided in three guarantees.

The user can repair it by yourself or the sales company's after-sales service guidance.

## About the supply period of parts

The supply period of parts is in five years after stopping manufacturing and producing.

## The name and functions of part



1. Hydraulic lever: Control the up and down of hopper.
2. Clutch: Changing forward, reverse and speed gear.
- 3, 5, Steering lever: Control left and right turning, pulling both side at same time is emergency braking
4. Gear shift lever: Changing forward, reverse gear and speed level.
6. Switch: Start the engine
7. Accelerator control: Control the speed of forward and reverse.
8. Throttle switch: Using when start engine.

## Driving and operating

### Start method

- Ensure stay at ventilated areas when start engine to avoid exhaust poisoning.



- ensure confirm the safety around when start engine
- Ensure the gear shift on neutral when start engine to avoid the machine rushing to hurt user or someone.

## Notice

Please drive after warming in winter or dry cold environment., otherwise, will short the service life of engine.

1. Confirm the gear shift on neutral or not.
2. Turn the accelerator switch
3. Turn the throttle switch
4. Hold switch to start the machine, let the throttle go at same time, it's started
5. Pull the clutch, change the gear shift then let clutch go, can control moving.

## Stop method

- Do not suddenly stop the machine, will make it slipping and overturning.
  - Please stop at the road with a hard foundation and safe.
1. Pull the clutch and change gear shift to neutral.
  2. Return the accelerator switch, engine stoped then off switch.
  3. Please stop at the road with a hard foundation
  4. Do not stop at sloping space, is it has to do, please fix the wheels.

## Tipping of the hopper

- Do not dump the hopper while moving
  - Do not operate on uneven road
1. Make sure the machine is not moving
  2. Put the hydraulic lever to up or down position to control dump
  3. Up or reduce the accelerator to control speed.

## Periodic inspection

### 1. The track

If there's obvious defects, aging or wear

Whether the slackness and tension are appropriate

Whether the tension nuts is deformed or corroded

### 2. Gear shift lever

Whether there is gear out of gear, abnormal noise, abnormal heat when walking

Whether there's oil spill around the gear box

### 3. Belt

Whether the belt damaged

Whether the belt length within standard limits

### 4. Clutch





Whether there is abnormal voice while low speed neutral rotation.

Whether there is no slippage and can be carried out smoothly while continuous operate clutch.

#### **5. The brake and steer lever**

Whether brake system is normal.

Whether can be stopped on 25 degree slope when brake

Whether the brake is flexible and no slippage.

Ensure there's no abnormal voice during operating.

#### **6. The frame and body**

Whether damaged or corroded

Whether is loose or fall off while assembling nut and screw

#### **7. Cover**

Whether is loose or fall off while assembling nut and screw

#### **8. The supply of oil**

Fuel

Supply anytime, item is NO. 0 diesel

#### **9. The supply of engine oil**

Checking daily, supply engine oil when it not enough, item is special engine oil for ordinary diesel engine

The first change within 50hours or half month (Whichever comes first), change every 150hours or 2months (Whichever comes first) after.

#### **10. Hydraulic oil**

Checking daily, supply when not enough, item is NO.68 Anti-wear hydraulic oil

Change every 6months or 1000hours ( Whichever comes first )

#### **11. Transmission oil**

Checking daily, supply gear box oil when not enough, item is NO.68 Anti-wear hydraulic oil(DO NOT use other oil)

The first change within 150hours or 2months (Whichever comes first), change every 500hours or 6months (Whichever comes first) after.

## **Warning**

- Stay away from fire with fuel
- Pay attention do not make oil spill. Wipe clean it when oil spill.
- Correctly dispose of waste oil in accordance with national laws

## **Pay attention**

1. Please clean the filter of the fuel filter
2. Please confirm if oil spill on connection after starting engine.
3. Turn off the engine while maintenance and repairing.
4. All the parts and oil still hot when engine just turned off, easy to be scalded. Please do repair and maintenance after the machine became cold.



5. Correctly dispose of waste oil in accordance with national laws
6. The engine will broken if not supply oil on time, so please supply special engine oil on time
7. Please ensure fix the hopper support while inspection, maintenance, and repairing, to avoid the hopper fall off.
8. Using the belt within tension limit to avoid fall off, short service life and more.

## Advice

The initial tension of the new track is loosened with the increase of the walking distance and the running-in of the sprocket. Please check and adjust within one week.

**Any problems, please stop using and contact us or store directly.**

## Technical Data sheet

Max load	1000kgs
Gear and speed	3F+1R, Max 6km/h, Min 0.6km/h
Size of hopper (L*W*D)	130CM*96CM*36CM
Climbing	30degree
Engine power	Diesel (kw/r/min): 8.0Kw/2200r/min
Obstacle crossing ability	20cm
Overall size (L*W*D)	170CM*96CM*110CM
Chassis size (L*W*D)	120CM/96CM/45CM
Engine	Changfa CF-188
Height from the lowest point	25cm
Wading water depth	40cm
Wading mud depth	30cm
Track touch ground length	110cm
Track width	28cm