

Hydraulic Tracked Dumper

Operator's Manual

MODEL NUMBER :

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

Important information on this Operator's Manual

Please store the Operator's Manual in the storage tube under the engine cover.

This Operator's Manual contains important information on how to work safely, correctly and economically with the machine. Therefore, it aims not only at new operators, but it also serves as a reference for experienced ones. It helps to avoid dangerous situations and reduce repair costs and downtimes. Furthermore, the reliability and the service life of the machine will be increased by following the instructions in the Operator's Manual. This is why the Operator's Manual must always be kept at hand in the machine.

The safety of the driver and other persons heavily depends on how safely the machine is used. Therefore, carefully read and understand this Operator's Manual prior to the first drive. This Operator's Manual will help to familiarise yourself more easily with the machine, thereby enabling you to use it more safely and efficiently.

Prior to the first drive, carefully read chapter "Safety Instructions" as well, in order to be prepared for possible dangerous situations, as it will be too late for it during operation. As a rule, keep the following in mind:

Careful and prudent working is the best way to avoid accidents!

Operational safety and readiness of the machine do not only depend on your skill, but also on maintenance and servicing of the machine. This is why regular maintenance and service work is absolutely necessary.

Extensive maintenance and repair work must always be carried out by an expert with appropriate training. Insist on using original spare parts when carrying out maintenance and repair work. This ensures operational safety and readiness of your machine, and maintains its value.

Specifications

Model	
Engine	Loncin G420F(D)
Engine Type	Single cylinder,4 stroke, air-cooled,OHV
Engine Displacement	420cc
Horsepower	15hp
Start	E-Start
Loading capacity	1800 lbs
Wheelbase	39 in
Bucket Capacity	10.6 cuft
Track Size	51.2*7.1*11.8
Shovel Height	63.8 in
Dump Front End Height	33.3 in
Dump Back End Height	43.3 in
Dump Width	24.3 in
Console Height	40.2 in
Platform Ground Clearance	104 in
Working Type	Self Loading and Unloading
Transmission	Hydrostatic Track Drive System
Parking Brake	Yes
Operator Platdorm	Stand-on
Max. Travel Speed	0-1.37 mph
Min. Travel Speed	0-2.73 mph
Max. Gradeability	30%
Ground Pressure (with Operator)	2.9 psi (20 kpa)
Hydraulic Pressure	2900 psi (20 mpa)
Battery Capacity	12V 20Ah
Pump Type	Triple Gear Pump
Weight (N.W/G.W.)	1253/1385 lbs
Overall Size	108*48*29 in
Packing Size	72*31*51 in

Symbols

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



Keep hands and feet out of openings while machine is running



Keep bystanders away.



Lift position



Bundle position



Prestart check list must be followed before operation



Tipping, Loss of load, Loads falling or loss of visibility can cause serious injury or death



Keep out of this area when lift arms are raised.



Operations Guide



Abrupt movement and uneven terrain can throw operator off machine.

Traveling on slopes or with load elevated may result in tipover. Death or serious crushing injury can result.

Brief description



The driver must always firmly hold onto the handle of the control stand with both hands. The driver is subjected to high acceleration forces in particular when moving off with the machine!

Regulations

Requirements to be met by the driver

Earth moving machines may be driven and serviced only by persons who meet the following requirements:

- 18 years or older
- Physically and mentally suited for this work
- Persons have been instructed in driving and servicing the earth moving machine and have proven their qualifications to the contractor
- Persons are expected to carry out work reliably.

They have been appointed by the contractor for driving and servicing the earth moving machine.

Get informed on and follow the legal regulations of your country.

Safety instructions

Identification of warnings and dangers

Important indications regarding the safety of the staff and the machine are identified in this Operator's Manual with the following terms and symbols:



Failure to observe the instructions identified by this symbol can result in personal injury or death for the operator or other persons.

Warranty

Warranty claims can be brought forward to your dealer only. Furthermore, the instructions in this Operator's Manual must be observed.

Disposal

All fluids, lubricants, material, etc., used on the machine are subject to specific regulations regarding collection and disposal. Dispose of different materials and consumables separately and in an environmentally friendly manner!

Disposal may be carried out by a dealer only. Also observe the national regulations regarding disposal!



Avoid damage to the environment! Do not allow the oil and oily wastes to get into the ground or stretches of water!

Designated use

The machine is intended for:

- Moving earth, gravel, coarse gravel or ballast and rubble
- Every other application is regarded as not designated for the use of the machine.

Shall not be liable for damage resulting from this and the risk shall be fully borne by the user.

Designated use also includes observing the instructions set forth in the Operator's Manual and observing the maintenance and service conditions.

Exemption from liability

Making machine modifications without proper authorization and using spare parts, equipment and options that have not been inspected and released can negatively impact the safety of the machine. Not liable for personal injury and/or property damage resulting from failure to comply with the safety instructions and Operator's Manual, and failure to exercise due care, in the following cases:

- handling
- operating
- servicing and carrying out maintenance work and
- repairing the machine. This is also applicable in those cases in which special

attention has not been drawn to the duty to exercise due care, in the safety instructions, the Operator's Manuals and maintenance manuals (machine/engine).

- Read and understand the Operator's Manual before starting up, servicing or repairing

the machine. Observe the safety instructions!

The machine may not be used for transport jobs on public roads.

Safety instructions

The machine has been designed and built in accordance with state-of-the-art standards and the recognised safety regulations. Nevertheless, its use can constitute a risk to life and limb of the user or of third parties, or cause damage to the machine and to other material property

The machine must only be used in technically perfect condition in accordance with its designated use and the instructions set forth in the Operator's Manual, and only by safety-conscious persons who are fully aware of the risks involved in operating the machine! Any malfunctions, especially those affecting safety, must therefore be rectified immediately!

Basic rule:

Before putting the machine into operation, inspect the machine for safety in work and road operation!

Careful and prudent working is the best way to avoid accidents!

The Operator's Manual must always be at hand at the place of use of the machine, and must therefore be kept in its storage bin.

Immediately complete or replace an incomplete or illegible Operator's Manual.

In addition to the Operator's Manual, observe and instruct the operator in all other generally applicable legal and other mandatory regulations relevant to accident prevention and environmental protection.

These compulsory regulations may also deal with handling hazardous substances, issuing and/or wearing personal protective equipment, or traffic regulations

With regard to specific operational features, e.g. those relevant to job organisation, work sequences or the persons entrusted with the work, supplement the Operator's Manual by corresponding instructions, including those relevant to supervising and reporting duties

Persons entrusted with work on the machine must have read and understood the Operator's Manual and in particular, chapter "Safety Instructions" before beginning work. This applies especially to persons working only occasionally on the machine, e.g. set-up or maintenance

The user/owner must check – at least from time to time – whether the persons entrusted with operation or maintenance are working in compliance with the Operator's Manual and are aware of risks and safety factors.

The user/owner commits himself to operate and keep the machine in perfect condition, and, if necessary or required by law, to require the operating or servicing persons to wear protective clothing (e. g. safety shoes, hard hat).

In the event of safety-relevant modifications or changes on the machine or of its behaviour, stop the machine immediately and report the malfunction to the competent authority/person.

Safety-relevant damage or malfunctions of the machine must be rectified immediately

Replace hydraulic hoses within stipulated and appropriate intervals even if no safety relevant defects have been detected

Before working on or with the machine, remove jewellery, such as rings, wristwatches, bracelets etc., and tie back long hair and do not wear loose-fitting garments, such as unbuttoned or unzipped jackets, ties or scarves.

Injury can result from being caught up in the machinery or from rings catching on moving parts!

- Keep the machine clean. This reduces
- Fire hazard, e.g. due to oil-soaked rags lying around
- Danger of injury, e.g. due to dirt or debris on the foothold, and
- Danger of accidents e.g. due to dirt pile-up on the control elements

Observe all safety, warning and information signs and labels on the machine

Adhere to prescribed intervals or those specified in the Operator's Manual for routine checks/inspections and maintenance work!

For service, inspection, maintenance or repair work, tools and workshop equipment adapted to the task on hand are absolutely indispensable.

Any work on or with the machine must be carried out by reliable staff only. Do not let unauthorised persons drive or work with the machine! Observe statutory minimum age limits!

The machine may be used by correctly trained or competent staff only. The staff's authorities for operating, equipping and carrying out maintenance and repair of the machine must be defined clearly and distinctly!

Define the machine operator's responsibilities – also with regard to observing traffic regulations. Give the operator the authority to refuse instructions by third parties that are contrary to safety.

Do not allow persons to be trained or instructed or persons taking part in a general training course to work on or with the machine without being permanently supervised by an experienced person!

Work on the electrical system and equipment, on the under-carriage and the steering and brake systems may be carried out only by skilled staff which has been specially trained for such work.

Work on the hydraulic system of the machine must be carried out only by staff with special knowledge and experience in hydraulic equipment!

Seal off the danger zone should it not be possible to keep a safe distance.

Stop work if persons do not leave the danger zone in spite of warning! Keep out of the danger zone!

Danger zone:

The danger zone is the area in which persons are in danger due to the movements of the

- machine
- work equipment
- additional equipment or
- material
- This also includes the area affected by falling material, equipment or by parts which are thrown out.

The danger zone must be extended by 0.5 m in the immediate vicinity of

- buildings
- scaffolds or
- other elements of construction

Safety instructions regarding operation

Avoid any operational mode that might be prejudicial to safety!

Before beginning work, familiarise yourself with the surroundings and circumstances of the work site. These are e.g. obstacles in the working and travelling area, the soil bearing capacity and any necessary barriers separating the work site from public roads

Take the necessary precautions to ensure that the machine is used only when in a safe and reliable state!

Operate the machine only if all protective and safety-oriented devices, e.g. removable safety-devices, soundproofing elements and exhausters etc., are in place and fully functional!

Check the machine at least once a day/per work shift for visible damage and defects! Report any changes (incl. changes in working behaviour) to the competent organisation/person immediately! If necessary, stop the machine immediately and lock it!

In the event of malfunctions, stop the machine immediately and lock it! Have any defects rectified immediately!

Start and operate the machine from the seat only!

Carry out start-up and shut-down procedures in accordance with the Operator's Manual, and observe the indicator lights!

Before putting the machine/attachment into operation (start-up/moving), ensure that no one is at risk by putting the machine/attachment into operation!

Before driving with the machine, and also after interrupting work, check whether all control levers are functional!

Before moving the machine always check whether the supplementary equipment has safely stowed away or attached!

When driving on public roads, ways and places for purposes of construction work, observe the traffic regulations in force and, if necessary, ensure beforehand that the machine is in a condition perfectly compatible with these regulations!

Ensure good illumination of the machine's work area in conditions of poor visibility or after dark!

Stop work if this is not possible to a reasonable degree!

Since the machine has no acoustic warning system, stop the machine or interrupt work immediately if a person is likely to approach the working range of the machine!

No lifting, lowering or carrying persons!

Installing a man basket or a working platform is prohibited!

When crossing underpasses, bridges and tunnels, or when passing under overhead lines always ensure that there is enough clearance!

Always keep a safe distance from the edges of building pits and slopes!

When working in buildings or in enclosed areas, look out for:

- Height of the ceiling/clearances
- Width of entrances
- Maximum load of ceilings and floors
- Sufficient room ventilation – danger of poisoning!

Avoid any operation that might be a risk to machine stability!

During operation on slopes, drive or work uphill or downhill. If driving across a slope cannot be avoided, bear in mind the tilting limit of the machine! Always keep the work equipment close to the ground! This also applies to driving downhill! When driving or working across a slope, the load must be on the uphill side of the machine.

If the skip is less than half full, drive backwards uphill or forwards downhill.

If the skip is more than half full, drive forwards uphill or backwards downhill.

On sloping terrain always adapt your drive speed to the prevailing ground conditions! Never change to lower gear on a slope but always before reaching it!

Before leaving the seat always secure the machine against unintentional movement and unauthorised use!

Lower the work equipment to the ground

The machine has no FOPS protection. Therefore, do not use the machine in areas with danger of falling objects!

Before starting work check whether

- all safety devices are properly installed and functional

Before moving the machine or before taking up work:

- Ensure that visibility is sufficient
- Inspect the immediate area (children!)
- In the work area the operator is responsible for third parties!

Caution when handling fuel – increased danger of fire!

- Ensure that fuel does not come into contact with hot parts!

Do not smoke during refuelling, and avoid fire and sparks. Stop the engine during refuelling and do not smoke!

Operation in potentially explosive areas is forbidden.

Never get on or off a moving machine! Never jump off the machine!

The drive levers take time getting used to them. Drive speed must be adapted to your skills and to the prevailing conditions.

Transport

The machine must be loaded and transported only in accordance with the Operator's Manual!

For towing the machine observe the prescribed transport position, admissible speed and itinerary.

Use only suitable means of transport of adequate capacity/payload!

Safely secure the machine on means of transport! Use suitable mounting points and load-securing devices

The recommissioning procedure must be strictly in accordance with the Operator's Manual!

Temperature ranges

The machine can be used at a maximum temperature of +45 °C and a minimum temperature of -15 °C. Carry out all maintenance and inspection work before storing the machine for the winter. Then store the machine in a dry place at ambient temperature (about +15 °C). Observe these temperature ranges so as not to affect the machine's service life.

Safety instructions for maintenance

Avoid any operational mode that might be prejudicial to safety!

Observe the adjustment, maintenance and inspection activities and intervals set forth in the Operator's Manual, including information on the replacement of parts/partial equipment!

These activities must be carried out by technical staff only.

The machine may not be serviced, repaired or test-driven by unauthorised staff

Brief the staff/the driver before beginning special operations and maintenance work! Appoint a person to supervise the activities!

In any work concerning the operation, conversion or adjustment of the machine and its safety-oriented devices, or any work related to maintenance, inspection and repair, observe the start-up and shut-down procedures set forth in the Operator's Manual, and the information on maintenance work.

If required, secure the maintenance area appropriately!

Prior to carrying out service, maintenance and repair work, attach a warning label, such as "Repair work – do not start machine! ", to the ignition lock/steering wheel or to the control elements.

Remove the ignition key!

Carry out service, maintenance and repair work only if the

- machine is positioned on firm and level ground
- the forwards-reverse lever is in neutral
- all hydraulically movable attachments and working equipment have been lowered to the ground
- engine is stopped
- ignition key is removed and
- machine has been secured against unintentional movement

Should maintenance or repair be inevitable with the engine running:

- Only work in groups of two
- Both persons must be authorised for the operation of the machine
- Observe the specific safety instructions in the work manual
- Keep a safe distance from all rotating and moving parts, e.g. fan blades, V-belt drives, fans etc.

Prior to carrying out assembly work on the machine, ensure that no movable parts will roll away or start moving.

To avoid the risk of accidents, parts and large assemblies being moved for replacement purposes must be carefully attached and secured to lifting gear.

Use only suitable lifting gear and suspension systems in a technically perfect state with adequate load-bearing capacity!

Stay clear of suspended loads!

Have loads fastened and crane operators guided by experienced persons only!

The person guiding the operator must be within sight or sound of him

Always use specially designed or otherwise safety-oriented ladders and working platforms to carry out overhead assembly work.

Never use machine parts or attachments/superstructures as a climbing aid!

Wear a safety harness when carrying out maintenance work at greater heights!

Keep all handles, steps, handrails, platforms, landings and ladders free from dirt, snow and ice!

Clean the machine, especially connections and threaded unions, of any traces of oil, fuel or preservatives before carrying out maintenance/repair work!

Do not use aggressive detergents!

Use lint-free cleaning rags!

Before cleaning the machine with water, steam jet (high-pressure cleaner) or detergents, cover or tape up all openings which – for safety and functional reasons – must be protected against water, steam or detergent penetration. Special care must be taken with the electrical system.

After cleaning, remove all covers and tapes applied for that purpose!

After cleaning, examine all fuel, lubricant and hydraulic oil lines for leaks, chafe marks and damage!

Rectify all defects without delay!

Always tighten any screw connections that have been loosened during maintenance and repair!

Any safety devices removed for set-up, maintenance or repair purposes must be refitted and checked immediately upon completion of the maintenance and repair work.

Ensure that all consumables and replaced parts are disposed of safely and with minimum environmental impact!

Do not use the work equipment as lifting platforms for persons!

Before taking up work on machine parts dangerous for life and limb (bruising, cutting), always ensure safe blocking/-support of these areas

Carry out maintenance and repair work beneath a raised machine, attachments or additional equipment only if a safe and secure support has been provided for (the sole use of hydraulic rams, jacks etc. does not sufficiently secure raised machines or equipment/attachments)

Avoid contact with hot parts, such as the engine block or the exhaust system during the operation of the machine and for some time afterwards – danger of burns!

Retainer pins can fly out or splinter when struck with force – danger of personal injury!

Do not use starting fuel! This especially applies to those cases in which a heater plug (intake-air preheating) is used at the same time – danger of explosions!

Apply special care when working on the fuel system – increased danger of fire!

Warning of special hazards

Electrical energy

Use only original fuses with the specified current rating!

Switch off the machine immediately and rectify the malfunction if trouble occurs in the electrical system!

When working with the machine, maintain a safe distance from overhead electric lines! If work must be carried out close to overhead lines, the equipment/attachments must be kept well away from them. Caution, danger! Get informed on the prescribed safety distances!

If your machine comes into contact with a live wire

Warn others against approaching and touching the machine

Have the live wire de-energised

Do not leave the machine until the line that has been touched or damaged has been safely de-energised!

Work on the electrical system may only be carried out by a technician with appropriate training, in accordance with the applicable electrical engineering rules

Inspect and check the electric equipment of the machine at regular intervals. Defects such as loose connections or scorched cables must be rectified immediately

Observe the machine's operating voltage!

Always remove the earthing strap from the battery when working on the electrical system or when carrying out welding work!

Starting with a battery jumper cable can be dangerous if carried out improperly. Observe the safety instructions regarding the battery!

Gas, dust, steam, smoke

Operate the machine only on adequately ventilated premises! Before starting the internal combustion engine on enclosed premises, ensure that there is sufficient ventilation!

Observe the regulations in force at the respective site!

Before carrying out welding, flame-cutting and grinding work, clean the machine and its surroundings from dust and other inflammable substances, and ensure that the premises are adequately ventilated – danger of explosions!

In areas with special hazards (e.g. toxic gases, caustic vapours, toxic environments), wear appropriate protective equipment (breathing filters, protective clothing)!

Hydraulics

Work on the hydraulic equipment of the machine must be carried out only by persons having specific technical knowledge and experience in hydraulic systems!

Check all lines, hoses and screw connections regularly for leaks and obvious damage! Repair any damage and leaks immediately! Splashed oil can cause injury and fire

In accordance with the Operator's Manual/instructions for the respective assembly, release the pressure in all system sections and pressure lines (hydraulic system) to be opened before carrying out any implementing/repair work!

Hydraulic and compressed-air lines must be laid and fitted properly! Ensure that no connections are interchanged! The fittings, lengths and quality of the hoses must comply with the technical requirements

Noise

During operation all sound baffles must be closed.

Wear ear protectors if necessary!

Oil, grease and other chemical substances

When handling oil, grease and other chemical substances (e.g. battery electrolyte – sulphuric acid), observe the product-related safety regulations (safety data sheet)!

Be careful when handling hot consumables – risk of being burned or scalded by fluids!

Battery

When handling the battery observe the specific safety instructions and regulations relevant to accident prevention. Batteries contain sulphuric acid – caustic!

When charging batteries in particular, as well as during normal operation of batteries, an oxyhydrogen mixture is formed in the battery cells. Danger of explosion!

In case of a frozen battery or of an insufficient electrolyte level, do not try start-up with a battery jumper cable. The battery can burst or explode

Dispose of the battery immediately

Tracks

Repair work on the tracks must be carried out by technical staff or by an authorised workshop only!

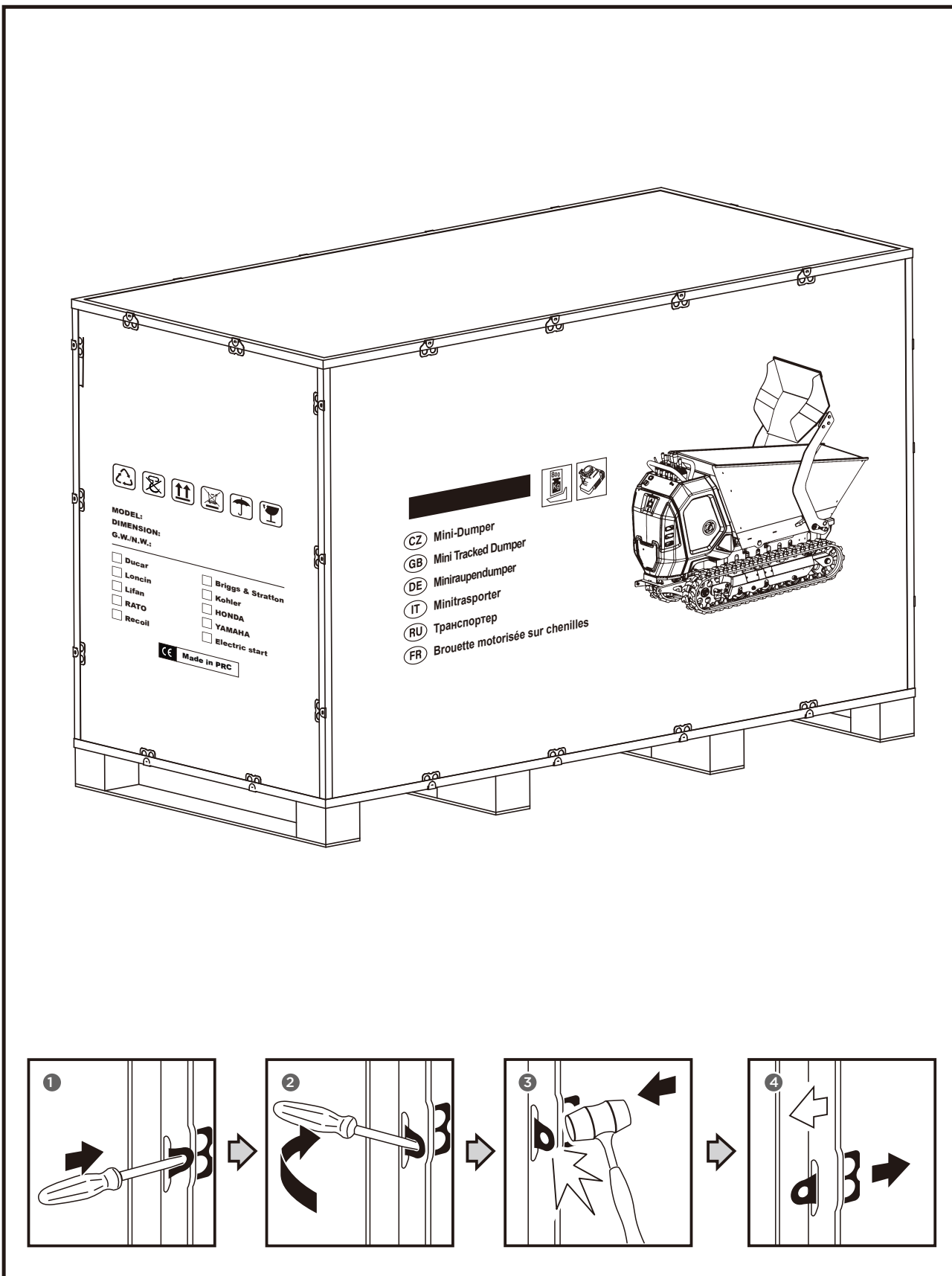
Defective tracks reduce the machine's operational safety. Therefore carry out regular checks of the tracks for

- Cracks, cuts or other damage

Check track tension at regular intervals.

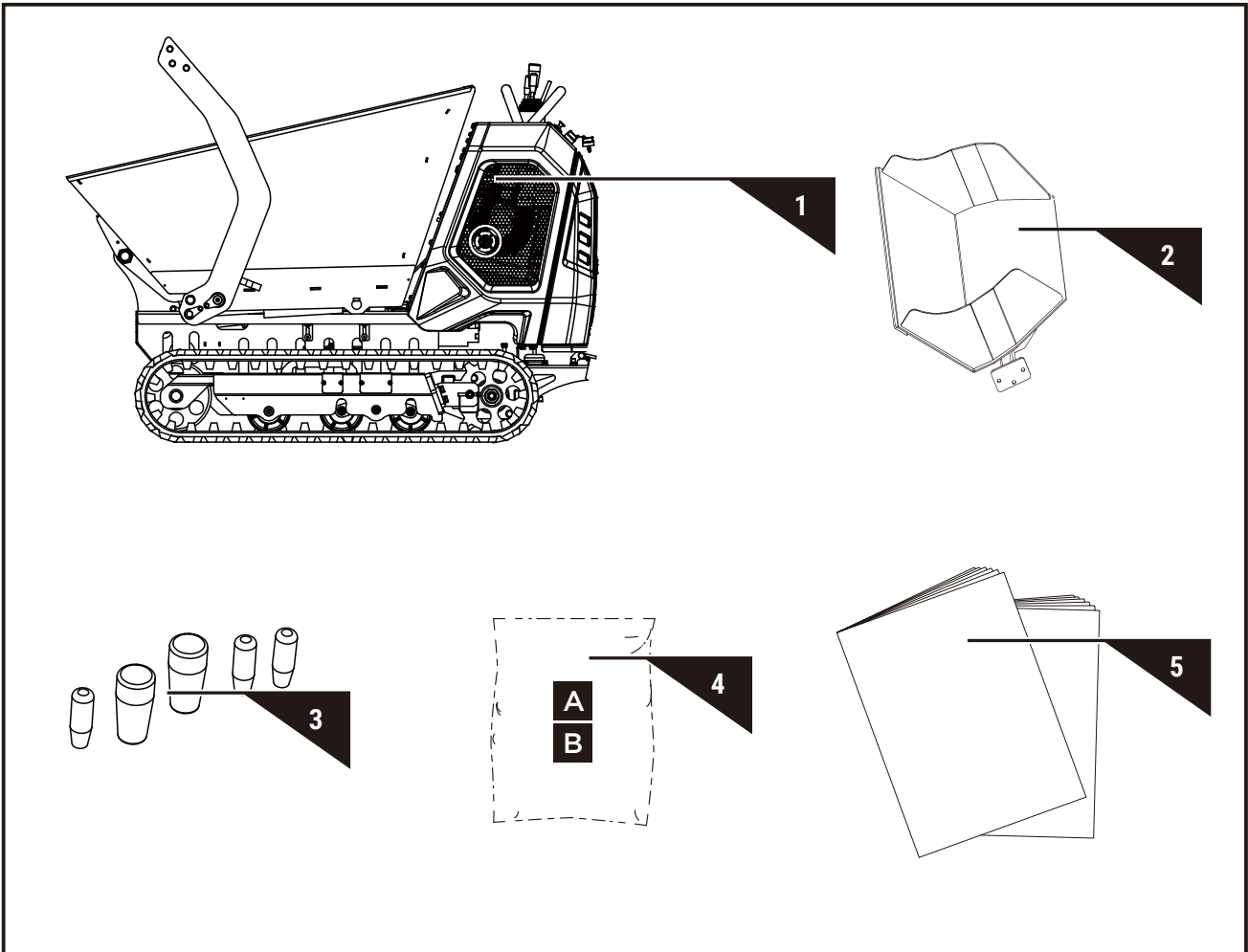
Unpacking the container

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



Contents supplied

The Hydraulic 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:



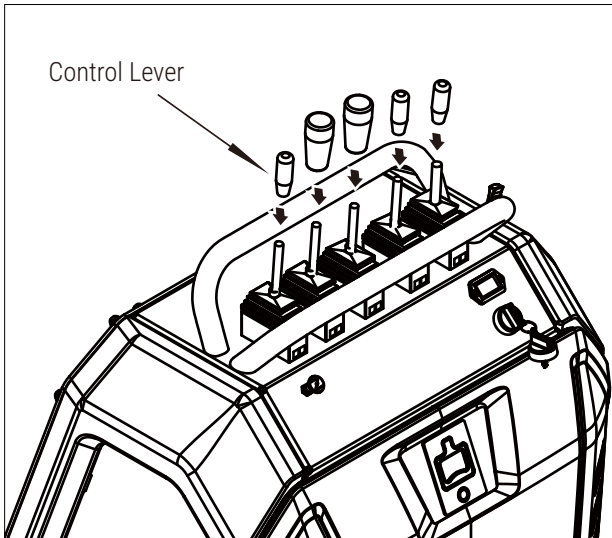
1. Main Body
2. Self-Loading Shovel
3. Control Lever
4. Hardware Bag
5. Operator's Manual & Engine Manual

Assemble

The main part of the hydraulic tracked dumper was assembled well at the factory. Other parts need to be assembled by the operator.

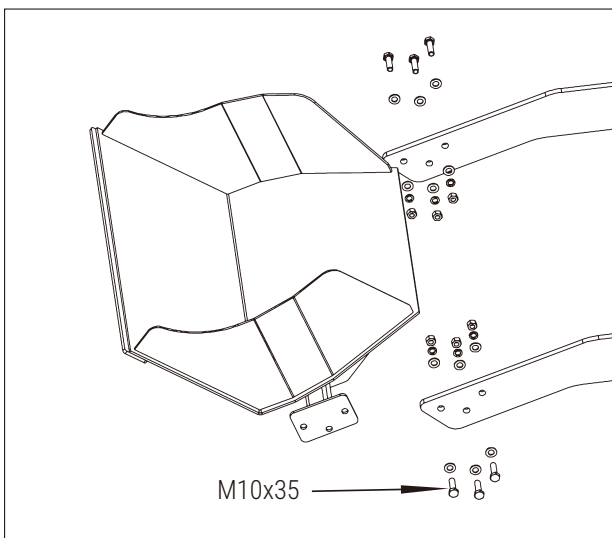
Control Lever Assembly

Insert the control levers into the connecting sleeves and tighten them.



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 six M10x35 bolts, washers and nuts on both sides.



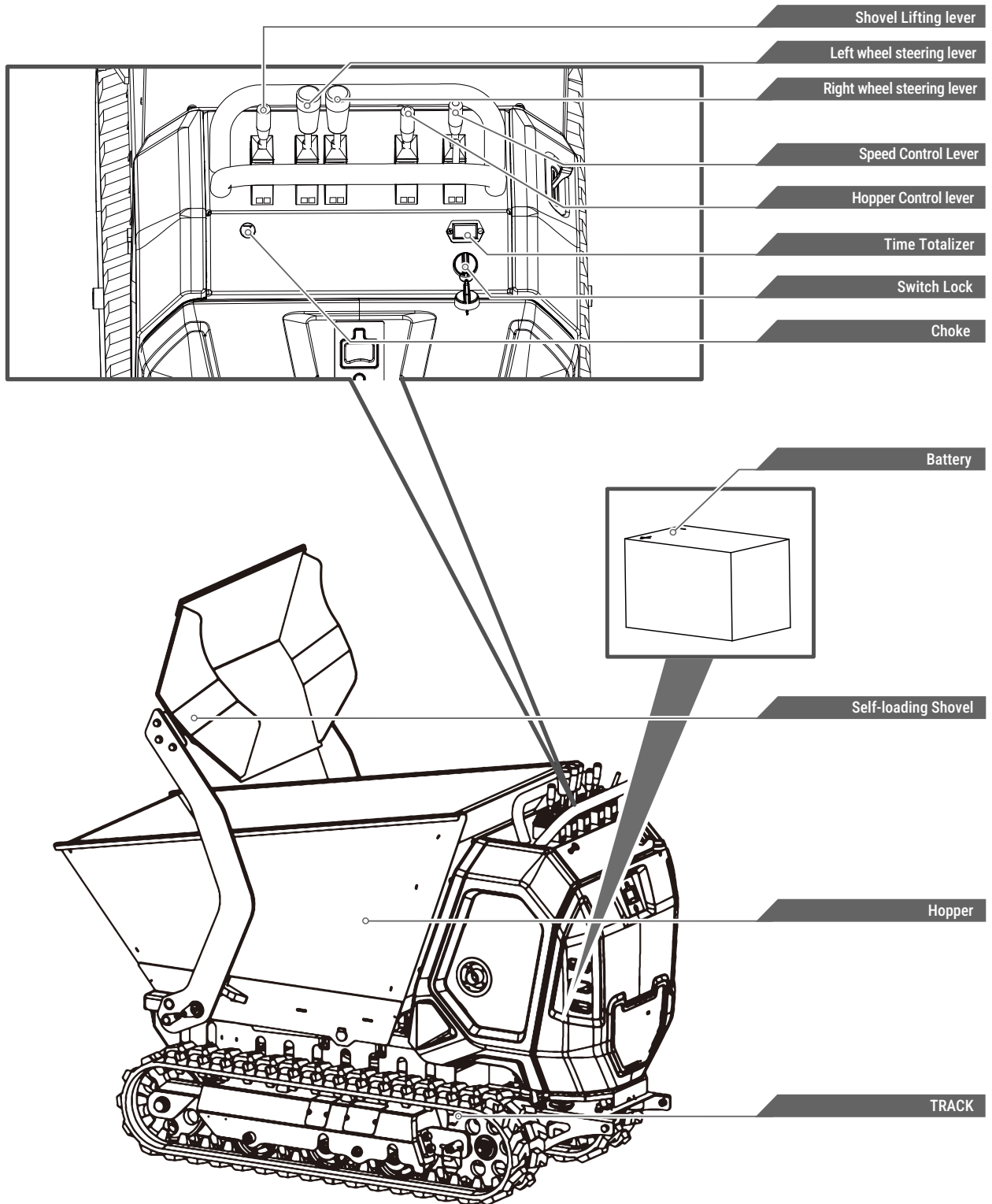
Engine Oil

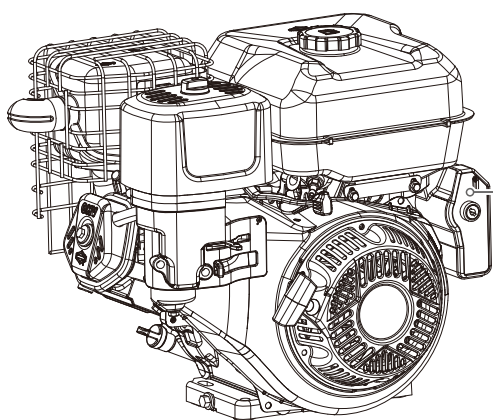


OIL HAS BEEN DRAINED FOR SHIPPING.

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

Know your machine





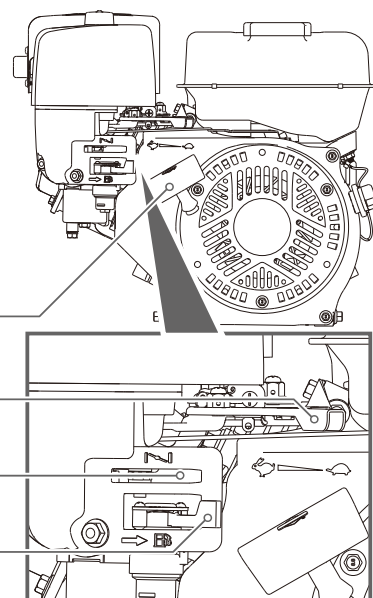
Electric Starter & Start Button (optional)

Recoil Starter Handle

Throttle Control

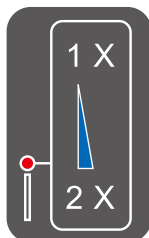
Choke Control

Fuel Shut-Off Valve



Speed Control Lever

The speed control lever has two positions: High speed and Low speed

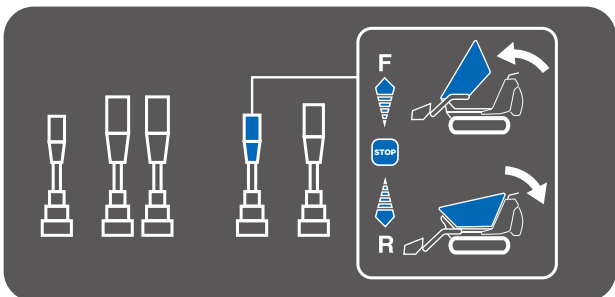


Always release the clutch control lever before changing speeds.

Low speed is for heavier loads, while high speed is 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.

Hopper Control lever

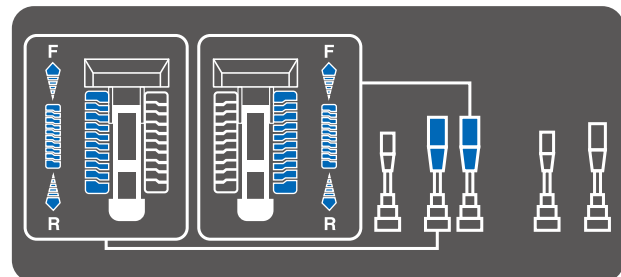
Use your left hand, push the lever to forward direction to tip the hopper, pull back the lever to flat the hopper in its original position.



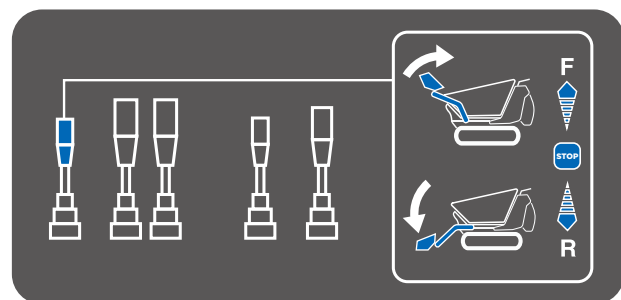
Left/Right Steering Lever

Operate the lever to turn left/right.

Operate the steering levers only at a reduced speed.



Shovel Lifting lever



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.

Shovel Speed Control Valve & Hopper Speed Control Valve

The valves have been set in factory, so no need to adjust them under normal circumstances.

If it's necessary, rotate the valve on the left counterclockwise to increase the lifting speed of the shovel and clockwise to decrease the speed; rotate the valve on the right counterclockwise to increase the falling speed of the hopper and clockwise to decrease the speed.



Equal tire pressure should be maintained at all times. If the tire pressure is not equal in both tires, the machine may not travel in a straight path and the scraper blade may wear unevenly.



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 mis operation of high-speed turning;
6. When the self-loading shovel falls back, the valve levers need to be stably controlled to avoid big impact between the shovel and ground

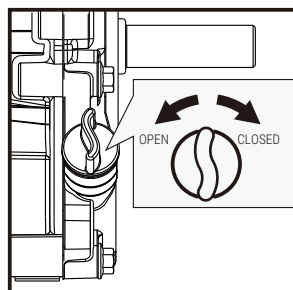
Operation

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!

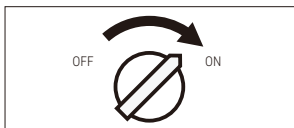
This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and / or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control 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.



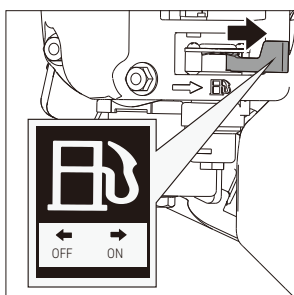
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

Pre-start check

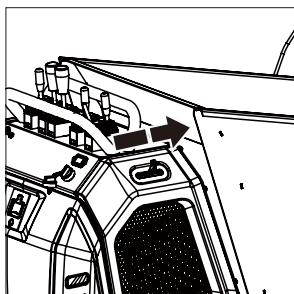
1. Move the engine switch to the ON position.



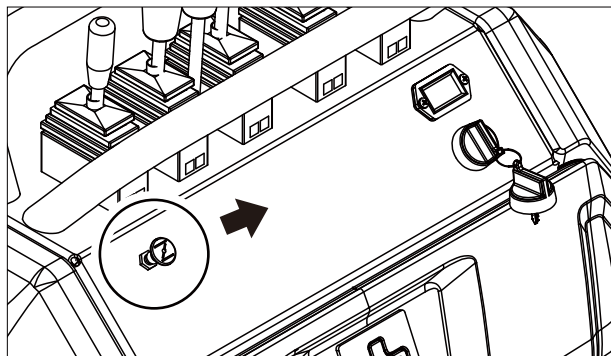
2. Open the fuel shut-off valve.



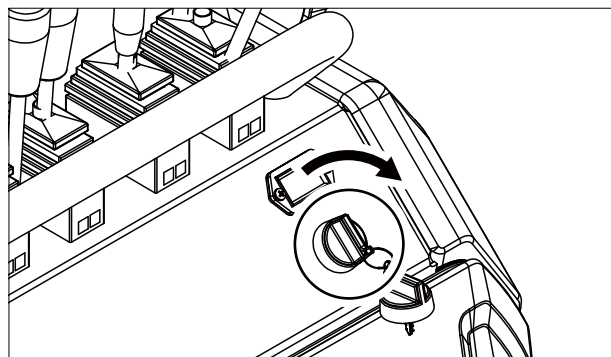
3. Pull the throttle lever forward

**Starting****Ignition Switch**

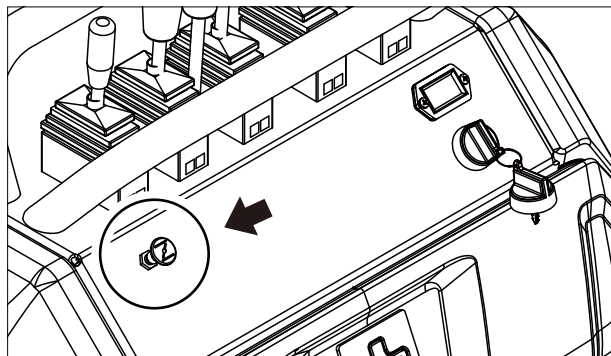
Open the choke



Turn the key to the open position and start Hydraulic Tracked Dumper



Engine normal after a few seconds, knob down choke



Operating

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

The Hydraulic 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 Hydraulic Tracked Dumper has a maximum capacity of 800kg. 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 Hydraulic 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.



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

Travelling on slopes

Specific safety instructions

In order to avoid accidents, observe these safety instructions in particular when driving on slopes.

Dump in the skip when driving the machine.

Dump in the skip when driving the machine.

Always drive in low speed on slopes!

This also ensures more precise and smooth movements of the steering system.

When driving on slopes or across obstacles,

Do not steer or drive across slopes.

If possible, avoid changing direction when driving on slopes

When steering the machine, ensure that you can stop safely at all times if the machine starts to skid or if it becomes unstable.

Dumping, swivelling or using the skip on slopes can cause the machine to lose its balance and to tip over.

Avoid this under all circumstances.

Do not drive on slopes steeper than 15°, otherwise the machine can tip over.

Do not drive across slopes steeper than 10° otherwise the machine can tip over laterally.

If the tracks slip when driving uphill and it is no longer possible to move on with the force of the tracks alone

Do not use any auxiliary means to move the machine otherwise it can tip over.

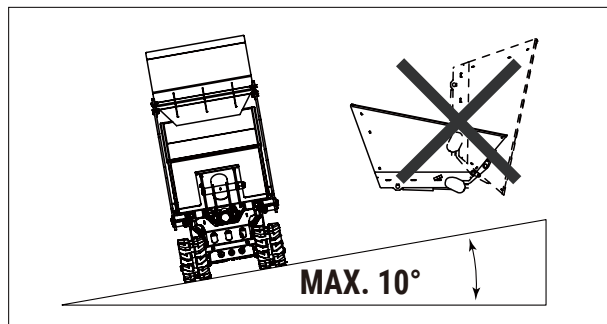
Always drive straight ahead when driving uphill or downhill. Driving diagonally or at an angle to the slope is very dangerous.

Avoid changing direction on slopes or driving across a slope.

Drive slowly in meadows, on leaves or wet steel plates. The machine risks slipping even if the slope is not steep. If the engine stops as you drive across a slope, immediately put the control levers to neutral position and start the engine again.

Driving across slopes

The dumper may be driven on firm ground across a slope of up to 10°.



Do not exceed the maximum slope.

The angle must be smaller in the case of soft and uneven ground!

Do not actuate the skip as you drive on slopes

Always dump in the skip before driving on slopes

Always keep the loader unit 30-40 cm above the ground when driving the machine.

Always reduce your speed as you drive on slopes

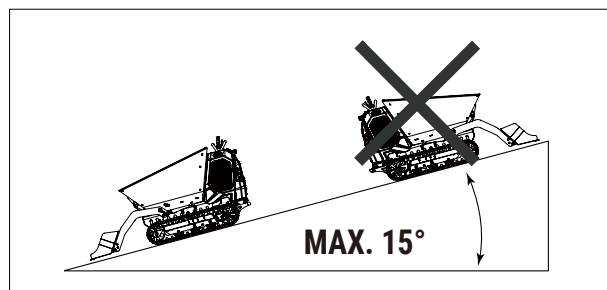
Always drive straight ahead when driving uphill or downhill. Avoid driving diagonally or at an angle.

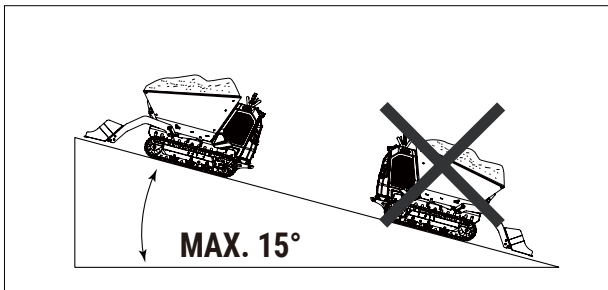
The machine is very narrow. Therefore, drive very carefully on slopes or on soft or uneven ground.

Drive with extreme care on slopes in rain or if the ground is wet or slippery

Driving on slopes

The dumper may be driven on firm ground on a slope of up to 15°.





Do not exceed the maximum slope.

The driver is not allowed to stand on the foothold when driving on slopes with a loaded machine!

If the skip is less than half full, drive backwards uphill or forwards downhill

If the skip is more than half full, drive forwards uphill or backwards downhill.

The angle must be smaller in the case of soft and uneven ground!

Before driving on a slope, lower the skip and do not operate it on the slope!

Always keep the loader unit 30- 40 cm above the ground.

Always reduce your speed as you drive on slopes

Always drive straight ahead when driving uphill or downhill. Avoid driving diagonally or at an angle.

The machine is very narrow. Therefore, drive very carefully on slopes or on soft or uneven ground.

Drive with extreme care on slopes in rain or if the ground is wet or slippery

Loading loose material

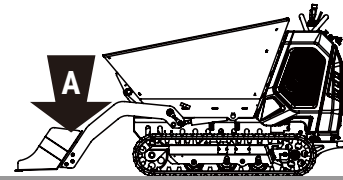
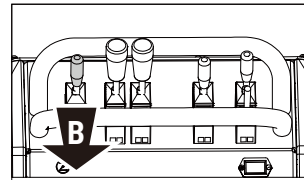


Do not carry out any steering movements once the bucket has penetrated the material. Lower the loader unit only when the machine is at a standstill and if there is enough room to the front.

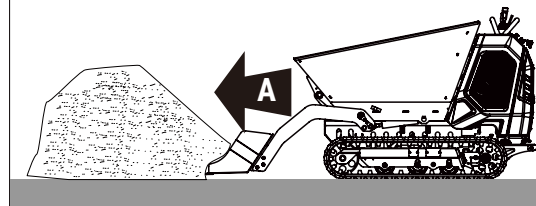
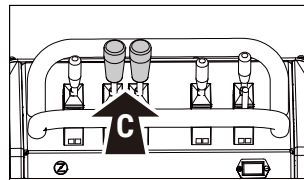
The loader unit is not designed for loading compacted material (hard to penetrate), severe loader unit damage can occur.

Lower the loader unit to the ground A

Push lever 1 back B



Drive forwards into the material A



Load the machine only on firm and level ground!



If the loader unit cannot be raised in the material Reduce the load on the loader unit by reversing

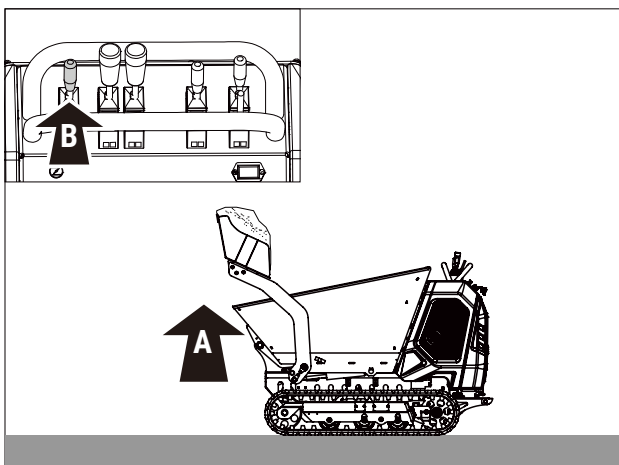


Do not carry out any steering movements once the bucket has penetrated the material.

Push brake lever B forward

Set the loader unit to position C

Carry out slow movements of the loader unit. This distributes the material evenly in the skip.



Transporting with a full skip

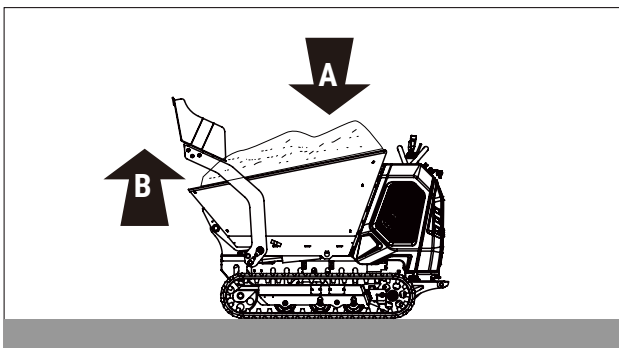


Observe the maximum angle when driving on slopes

Fully dump in the skip A

Lower the loader unit (option) to transport position B

Always reverse up a slope at low speed with a full skip

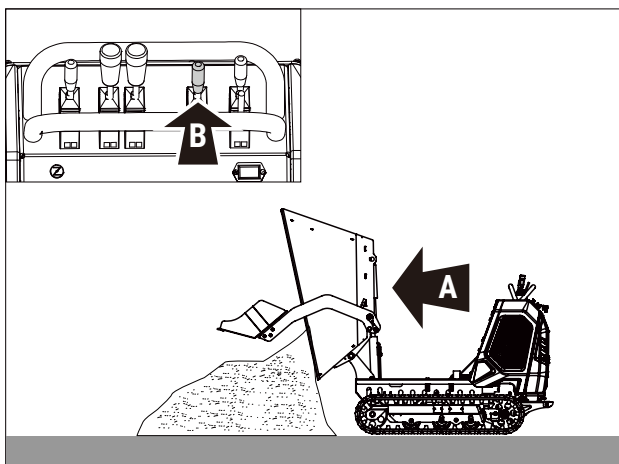


Dumping out the skip



Dumping out the skip alongside a pit is dangerous

Push lever B forward



Ensure sufficient stability

Do not drive too closely to the pit

Always watch the material as you dump out the skip: ensure that the material is dumped out evenly and does not remain stuck in the skip, otherwise the machine could tip over

Parking the machine



Always park the machine on firm ground

Park the machine on level ground

Fasten the tracks with fastening elements (e. g. chocks)

1. Stop the machine
2. Dump in the skip
3. Lower the loader unit to the ground
4. Reduce engine speed completely
5. Switch off ignition
6. Remove the ignition key

Let the engine run at idling speed for at least 1 minute before switching it off.

Maintenance

Maintaining your Hydraulic 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 service-ability.

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.

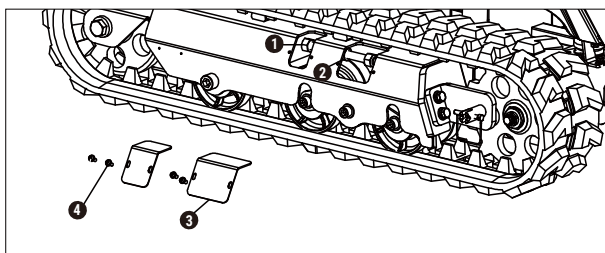
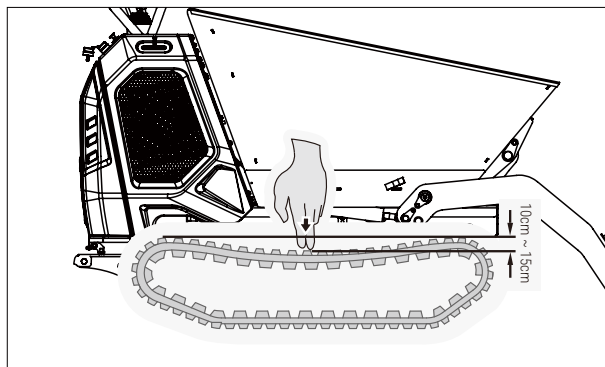
Attention! Do not operate the valve levers during draining or adding oil, to prevent the shovel and hopper from falling.

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.



Take off the cover #3 by unscrewing the two screws #4.

Using two wrenches, loosen the counter nut #2, tighten the nut #1.

Put the cover back on.

Repeat the same procedure on the other track.

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. Remove the two nuts M10 with washers and take off the front guard plate.
4. Loosen the adjusting bolts and pull the steering wheel axle toward the engine, then track will be loosen.
5. 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 Hydraulic 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.

Transportation

Safety instructions

The crane and the lifting gear must have suitable dimensions
Crane handling the machine requires suitable lifting gear
Secure the machine against unintentional movement



Ensure that no-one is near the machine!

Have loads fastened and crane operators guided by experienced persons only! The person guiding the crane operator must be within sight or sound of him

Ensure that the crane and the lifting gear (cables, chains) have sufficient load-bearing capacity!

Only raise the machine with an empty loader unit and skip

Stay clear of suspended loads!

It is essential that you read the safety instructions at the beginning of this chapter and follow any other safety instructions relevant in your country!

Load the machine as follows:

- Empty the skip and the loader unit
- Lower the skip
- Stop the engine
- Remove the ignition key.
- Use suitable lifting gear, chains etc
- Slowly raise the machine

Trouble shooting

Problem	Cause	Remedy
Engine fails to start.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1. Engine oil level low. 2. Dirty air cleaner. 3. Air flow restricted. 4. Carburetor not adjusted properly. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1. Gear is not properly selected. 2. Driving tracks not tight enough. 	<ol style="list-style-type: none"> 1. Ensure gear lever is not in-between two different gears. 2. Tighten driving tracks.

