



User manual

Tauros ZX25



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Home

Thank you for purchasing a Tauros ZX25 tractor.

This manual describes and explains the correct use, simple maintenance methods of the Tauros tractor ZX25e.

Before use, please read and understand the contents of this manual carefully and follow the instructions in order to take full advantage of the tractor's excellent performance and ensure safe and comfortable operation.

After reading, keep this manual with you so that you can easily refer to it when you encounter problems. Please note that some components may be changed to improve product quality and performance or for safety reasons. In that case, the product may differ from the contents of this manual.

Safety first!

The warnings in this manual and the warning labels on the machine indicate the correct ways to use the machine and failure to follow them may cause personal accidents.

Please read and follow the operating instructions carefully.

If the warning label is dirty or peeled off, order it from Tauros or our dealers and make sure these labels are in the correct place.



Nebezpečí

Označuje, že nedodržení bezpečnostních opatření bude mít za následek smrt nebo vážné zranění.



Varování

Označuje, že nedodržení bezpečnostních opatření může mít za následek smrt nebo vážné zranění.



Pozor

Označuje, že nedodržení bezpečnostních opatření může vést ke zranění.

Důležité!

Označuje, že nedodržení bezpečnostních opatření může vést k poškození nebo nesprávné funkci stroje.

Purpose of the tractor

Please use the machine only for its intended purpose and do not modify it in any way.

Please note that you will forfeit the warranty on the machine if you use it for purposes other than those specified in the user manual.

GB/T 15370.1-2012

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Instructions for safe operation

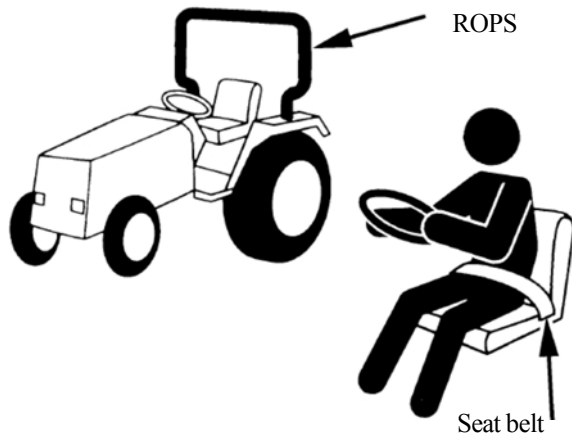
Please read carefully

Read **this manual** carefully before using this machine. All safety precautions listed here are important contents concerning personal safety. Make sure to observe them.

In this manual, important safety issues are divided into four categories: **Danger, Warning, Caution, and Important**. This manual applies to all types of **tractors with ROPS**.

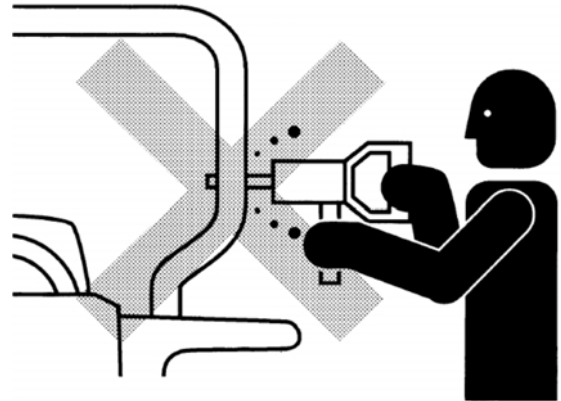
Rollover protection system (ROPS)

The purpose of **the ROPS** is to mitigate injury when the tractor overturns, not to prevent a rollover accident. Please observe safety precautions and drive safely.

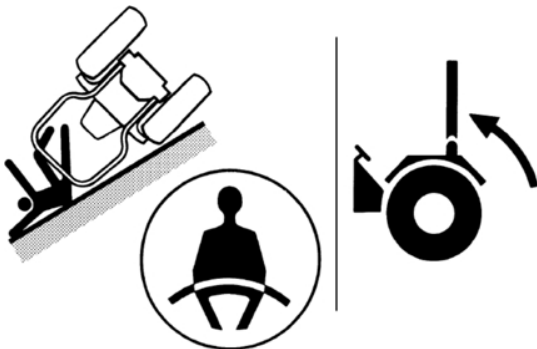


5. When folding or erecting the ROPS, be sure to place the implement on the ground in a level place, switch off the engine and stop the machine.
6. Do not adjust the ROPS. If the ROPS is damaged or bent, which affects its strength.

Replace the ROPS.




1. Remember to use ROPS and seat belts when driving.
2. Do not drive after removing the ROPS.
3. Except when the ROPS on entering and exiting the warehouse is higher than the door frame, always position and secure the ROPS before driving. If the ROPS is folded down, it will not function if the tractor overturns.
4. When the ROPS is erected, secure the seat belt while driving. When the ROPS is folded down, do not engage the seat belt.



Instructions for safe operation

Before operation

1. Before operating the tractor, read the tractor operator's manual and manual carefully.

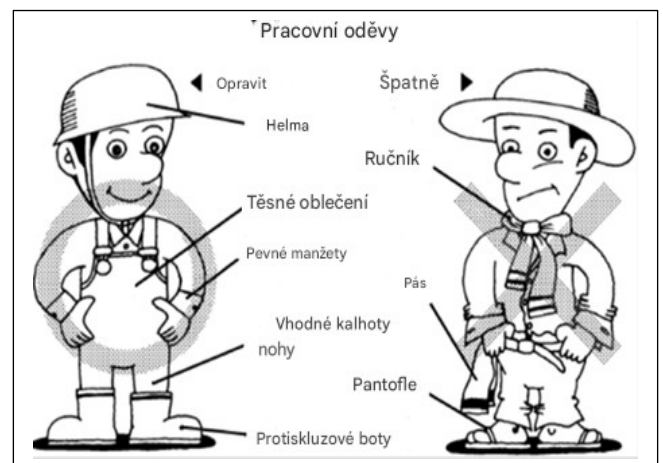
installed work machine and the labels  attached to the machine and understand their contents before starting operation.



2. Before renting the tractor and work machine, instruct other users on how to operate it.
to other users or have them operated by other users, and make sure that other users read these instructions carefully.
3. Never allow anyone who does not understand the contents of this manual and labels, or children under 18 years of age to operate the tractor.
4. A beginner must not operate the tractor when an instructor is not on site.
5. Do not drive the tractor after drinking alcohol or if you are unwell, ill or pregnant.
6. Please do not wear towels, belts, slippers or be barefoot while driving the tractor. Otherwise accidents may occur due to clothing becoming entangled in the machine or slipping and falling. For safety, wear a helmet, non-slip footwear, safety glasses and gloves as necessary.

Please read carefully

7. Do not modify the tractor. Modifications will affect not only the function of the tractor but also its functionality.
Cause injury and death.
8. Do not operate the tractor or implement with the ROPS guard removed.
9. Replace missing or damaged parts in good time.
10. Carry out daily checks on components such as brakes, clutch, steering and safety equipment, and if worn or damaged, replace them. In addition, regularly check the bolts and nuts to prevent them from loosening. (For details, refer to the chapter "**Simple tractor service and maintenance**").
11. Ensure that the tractor is cleaned daily.
Otherwise, trash or fuel around the battery, cables, muffler or engine could cause a fire.



Instructions for safe operation

Please read carefully

Starting the engine

1. Before starting the engine, sit on the seat and check that the main gear shift lever and PTO shift lever are in **[Neutral]** and the parking brake is applied.
2. Do not stand on the ground when starting the engine. Do not start the engine or by direct connection.
starter. Otherwise, accidents could occur due to sudden starting of the tractor.



3. When starting and driving the tractor, carefully check the front, rear, left and right sides and make not allow people (especially children) to approach the tractor. Otherwise there is a risk of an accident. In addition, make sure that the front door frame or height limiting bar does not hit the ROPS.



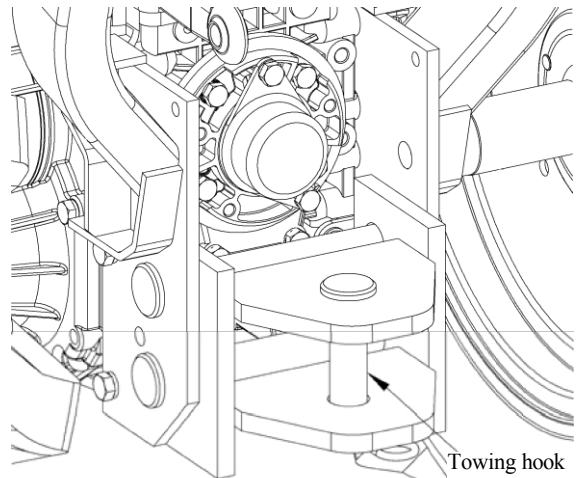
4. When starting the engine in the interior, open the doors and windows to facilitate ventilation.

Driving the tractor

1. When driving the tractor, do not allow other persons (especially children) to sit on the tractor, except the driver. In addition, ensure that you drive on the seat.



2. When towing, use a **towing hook** and never attach it to a vehicle hitch or axle. three-point suspension. Otherwise, damage or tipping of the tractor will occur.



3. Do not warm up the tractor or operate it in an area with insufficient ventilation. Failure to do so will damage the exhaust gases

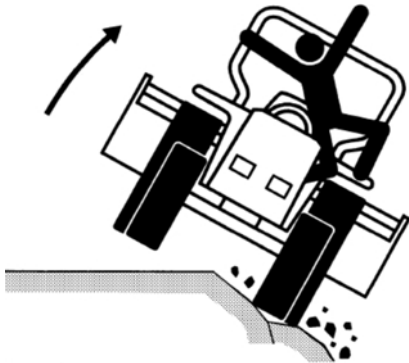
The gases produced by the engine can cause carbon monoxide poisoning to the driver.



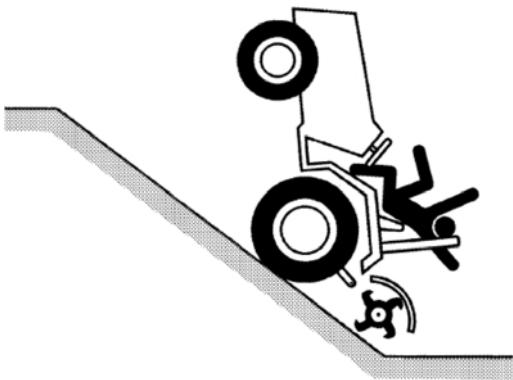
⚠️ Instructions for safe operation

Please read carefully

4. Do not drive near ditches, holes or verges where the weight of the tractor can easily cause it to tip over. In addition, in places with thick grass or puddles, invisible holes are sometimes created so that a rollover accident can occur when the tractor enters. When entering these areas, be sure to get off the tractor to make sure the area is safe.

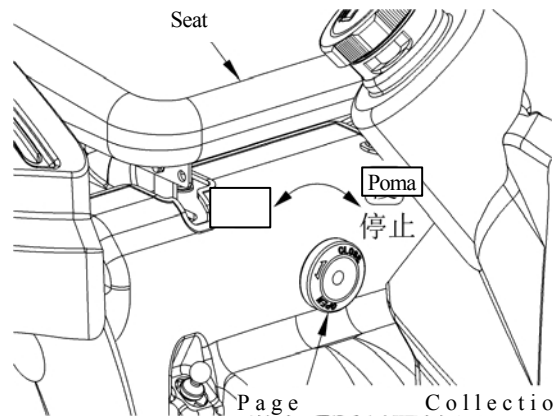


5. There is a danger of the tractor tipping backwards when driving forward in a ditch or on the road. Muddy areas or when moving forward on a steep slope. In such cases, reverse.



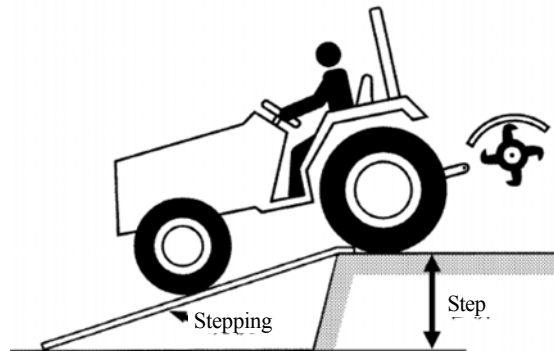
6. When working with other tractors, keep each other informed and let each other know what the other is doing.
The party will do.
7. Take care when entering and leaving farmland, when climbing and descending steep slopes and when crossing ditches.
move in a straight line at low speed. At this point, be sure to engage the left and right brake pedals and check that the differential lock is off.
8. In a non-functioning condition, use the falling speed adjustment knob to lock (stop) the hydraulic mechanism, preventing the work machine from rising and falling in the event of operator error. Turn the knob to the end in the slow direction and the hydraulic mechanism will lock (stop).

Mechanism.



Page _____ Collection
To adjust the speed of the
saber fall.

9. When crossing a steep slope or a furrow with a large height difference on farmland and other occasions, secure and fasten the stepping stones and drive at low speed. Arrange stepping stones 4 times longer than the steps.



10. For steep slopes, loading and unloading the tractor, entering and leaving the tractor, crossing ridges, etc., a mid-track speed change is very dangerous, so set the gear lever to a safe low speed position beforehand.
11. Please switch off the two-speed turning off farmland and do not use this function. In addition, do not use dual speed turning when driving at high speed. Failure to do so may cause the tractor to overturn.

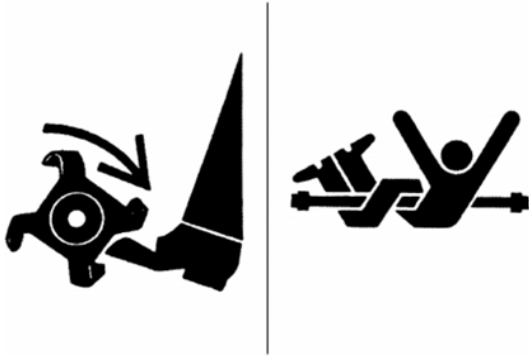


Instructions for safe operation

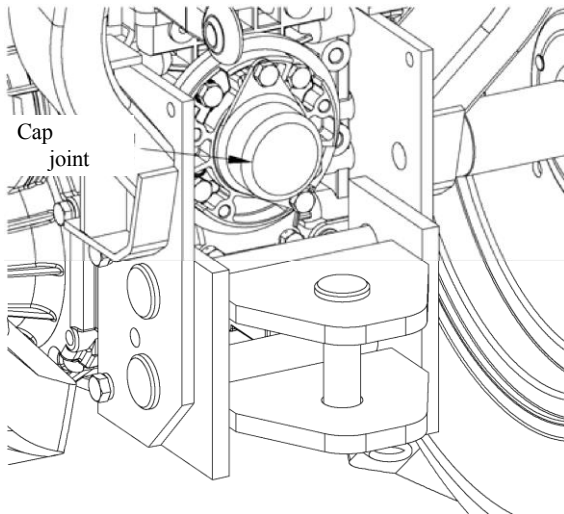
Please read carefully

Using the working machine

1. Install and dismantle the work machine on a level and safe place.
2. When leaving the tractor to mount and dismount, adjust, clean or repair the rotary PTO implement, the driver must wait until the implement has come to a complete stop. Failure to do so may result in personal injury due to being drawn into the working machine.



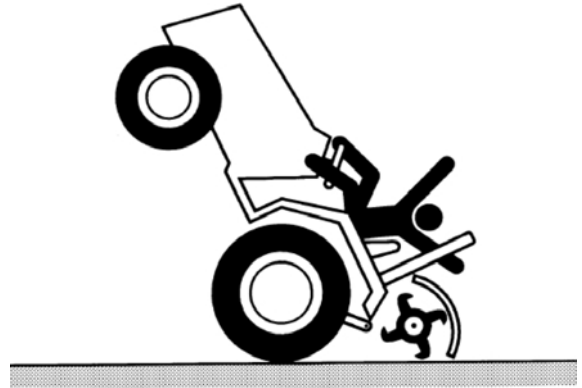
3. When the PTO is not in use, fit the PTO cover.



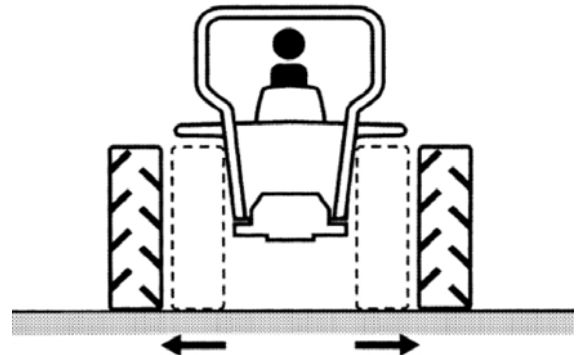
4. When using a work machine with a PTO shaft, do not operate the work machine at a higher speed than the rotation speed specified for this working machine. Otherwise, damage to the machine and personal injury may result.
5. Use the work machine recommended for tractor. If the work machine is too large or too small, it will cause an imbalance that can lead to machine damage or personal injury. In such cases, consult your dealer.
6. When installing a rear-mounted work machine,

secure and install counterweights so that the load on the steering (front) wheels equals or exceeds 20% of the total weight.

Note: If the front of the tractor is too light, a rollover accident may occur.



7. To achieve good stability when working with traction equipment, on slopes, with a front loader and other processes, the wheel track (distance between the centre of the front and rear tyres) must be increased to an unlimited extent.

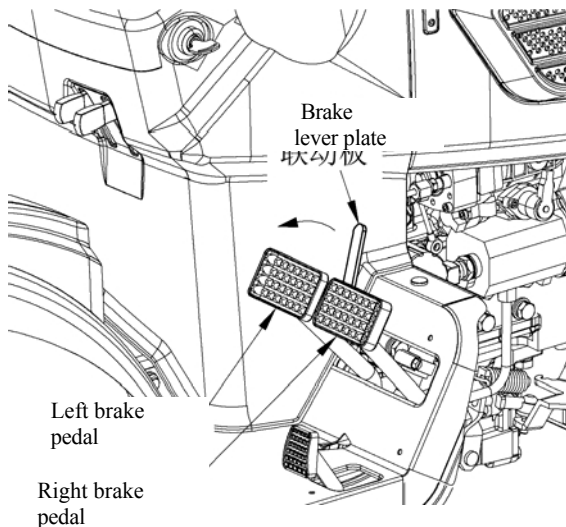


Instructions for safe operation

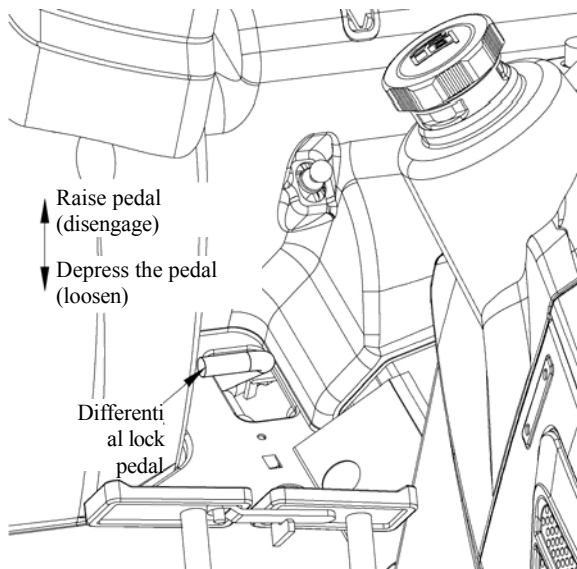
Driving on the road

1. When driving on the road, connect the left and right brake pedals **with the brake rod plate**. One careless depression of the brake pedal at high speed will cause the side of the tractor to slip, which may result in a rollover or accident.

Note: When driving on the road, the left and right brake pedals must be connected; during operation, the connecting plate can be removed as the situation requires.



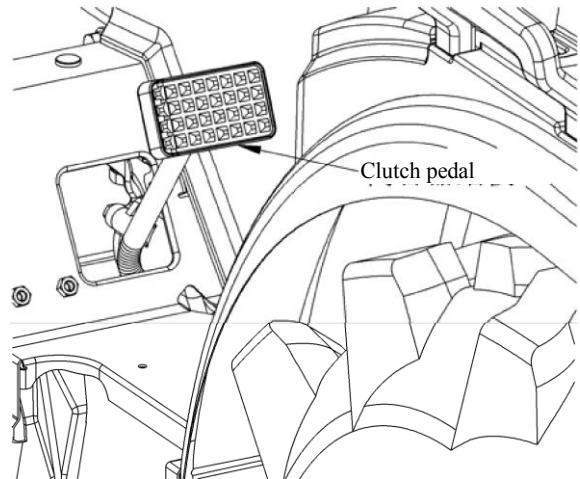
2. **Never step on the differential lock pedal** when driving on the road. Otherwise the tractor will not turn normally, causing damage to the tractor gears and even accidents.



3. Slow down the tractor before turning. Turning at high speed may cause the tractor to overturn.

Please read carefully

Never step on the clutch pedal when driving downhill. Otherwise, the tractor will be put into neutral and run in inertia, which can cause an accident due to loss of control.



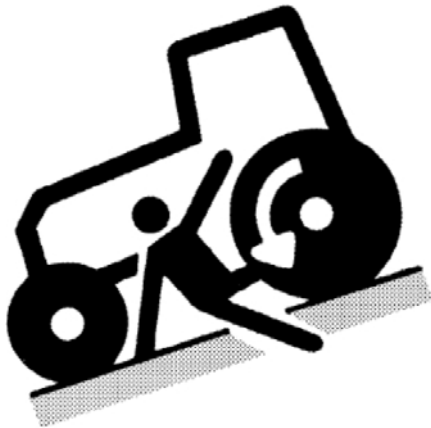
5. Observe traffic and safety regulations. When driving, ensure that you carry out related operations.

Instructions for safe operation

Please read carefully

Parking and storage

1. When parking, select a level place where the tractor can be parked stably, position the PTO shifter to **[Neutral]** (N) and lower or lower the machine to the ground. Place the main and auxiliary gear shift levers in **[Neutral]** (N), turn the parking handle to **[On]**, then turn off the engine and remove the key. If you have to stop on a ramp, place wheel stops in front of and behind the rear wheels.



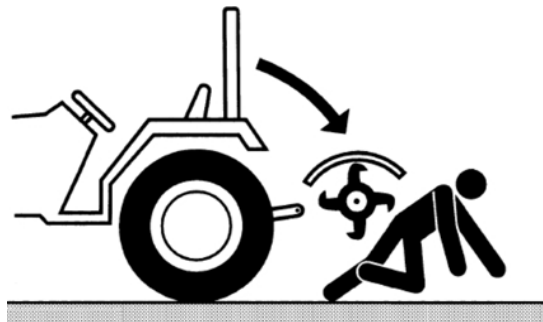
2. Do not park where flammable materials such as hay and straw are stacked.
3. If you want to cover the tractor with a tarpaulin, do so after the muffler and engine have cooled sufficiently.

Checking, refuelling and maintenance

1. Park the tractor on level ground, put the PTO shifter in **[Neutral]**, lower the work belt. Place the machine on the ground and set the main and auxiliary gear shift levers to **[Neutral]**. Turn the parking handle to **[ON]** and switch off the engine.
2. Check and repair the engine, muffler and radiator. and other parts after they have cooled down completely. V otherwise there is a risk of scalding.



3. The machine must be locked when inspecting and repairing with the machine raised. (stopped) using the **fall speed adjustment knob** to prevent the machine from falling. When locking (stopping), secure the jack to prevent the machine from falling.



4. When refueling or charging the battery, do not smoke or bring an open flame nearby as it may damage the battery. There is a risk of ignition and explosion.
5. Read and follow the instructions carefully when connecting the auxiliary cable to a discharged battery. **Note: Refer to "Emergency Treatment for Battery Failure" in the "Starting and Stopping the Engine" section.**
6. When removing the battery, remove the the negative battery lead first to prevent shorting. When installing the battery, connect the negative lead last.

⚠️ Instructions for safe operation

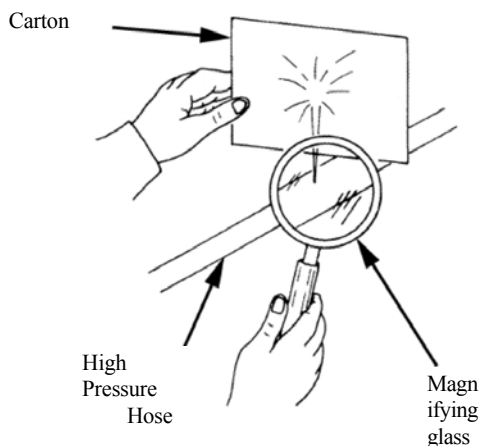
7. Make sure that the tire pressure specified in the owner's manual is maintained.
Over-inflation can lead to a tire blowout and cause injury.
8. If the tire is scratched down to the cord threads, do not use the tire as there is a risk of bursting.
9. Replacement and maintenance of tyres, tubes, rims and other parts must be handled by professional repairers.



10. The squeezed hydraulic oil is strong enough to penetrate the skin and cause injury. Therefore, when removing hydraulic components, take care to release any residual pressure.



11. Use safety goggles and cardboard when looking for invisible oil leak holes, use a magnifying glass and other tools to locate leaking holes. If oil splashed from the leak site penetrates the skin, it can cause allergies. Seek medical attention immediately.



Please read carefully

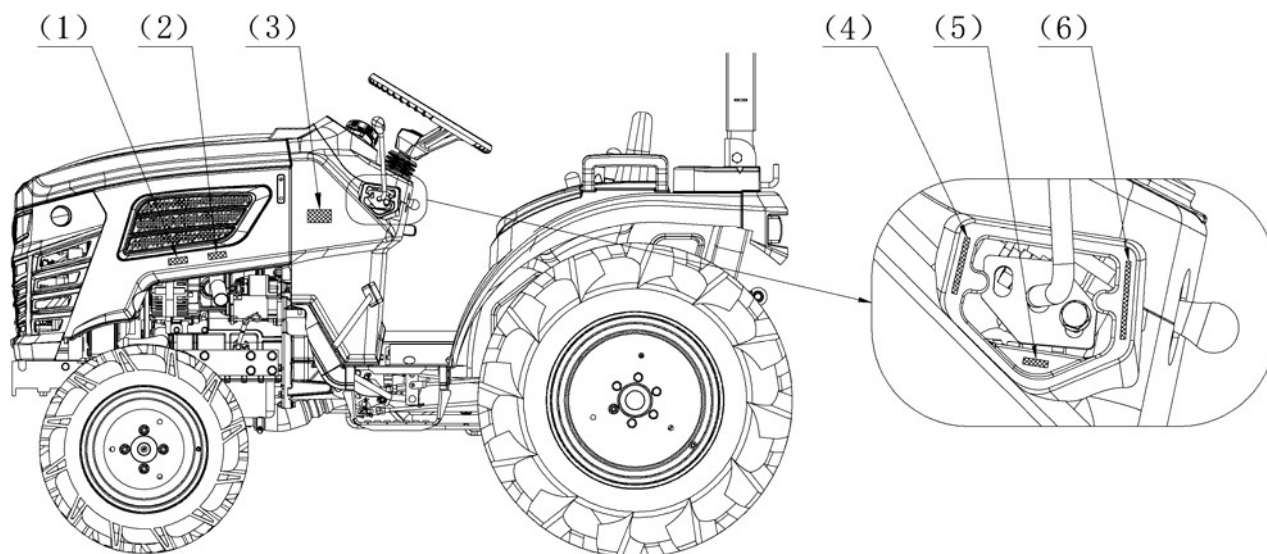
12. If waste is thrown away or disposed of arbitrarily, it will cause environmental pollution and will be punished.

According to the law.

- When waste liquid is discharged from the machine, collect it in a container.
- Do not dump waste liquid on the ground, nor pour it into rivers, lakes or oceans.
- Consult professionals when discarding or disposing of waste oil, fuel, cooling water (antifreeze), coolant, solvents, filters, rubber and other harmful substances. dealer or industrial waste disposal company and dispose of them in accordance with regulations.



Warning labels and locations



(1) Exhaust warning label



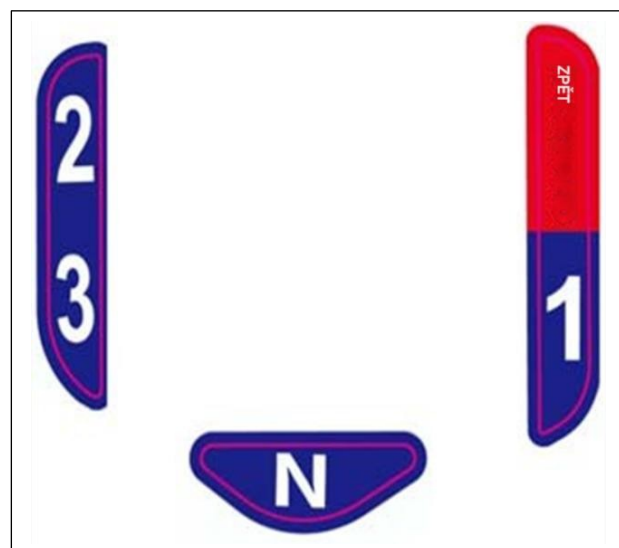
(2) Exhaust pipe warning label

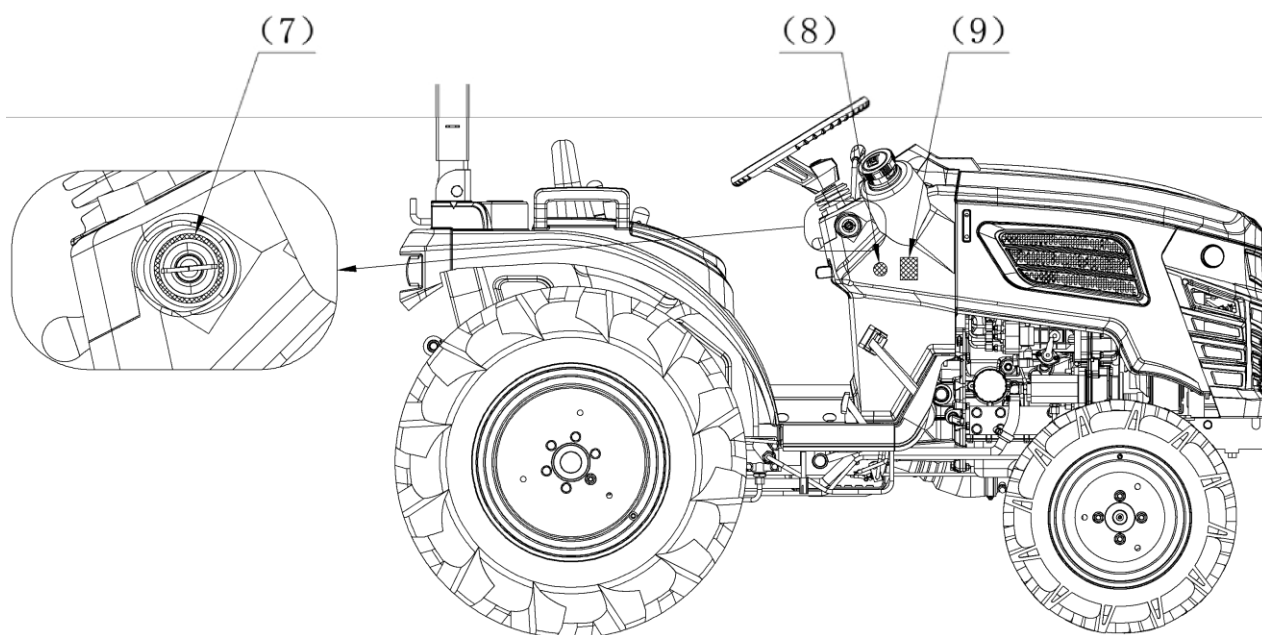


(3) Operation warning label



(4) , (5) and (6) Label for main gearbox gears





(7) Starter switch designation

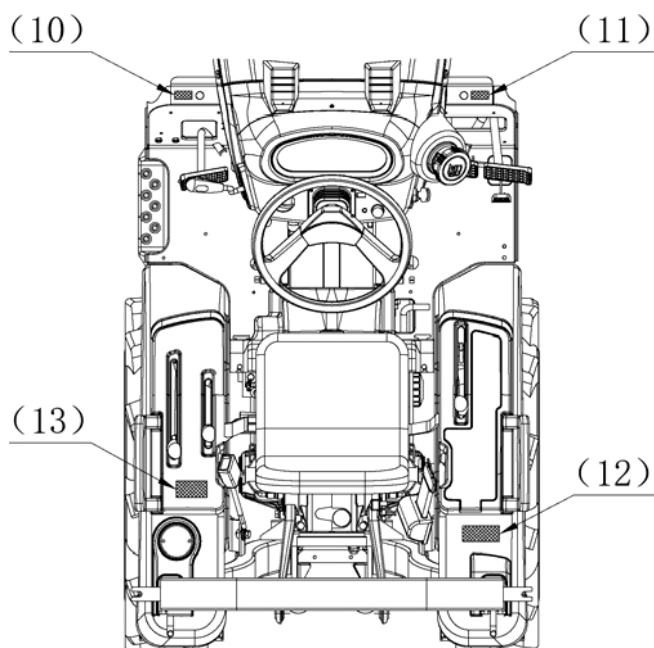


(9) Fuel filling warning label

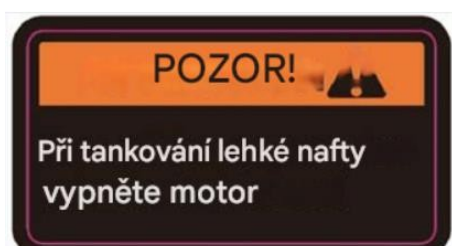


(8) Label for fuel filling





(10) Clutch pedal label



(11) Brake pedal plate

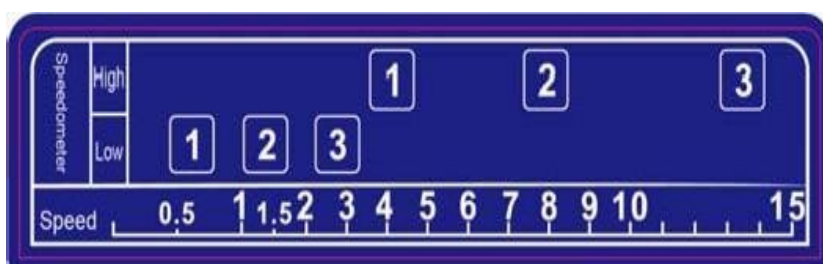


(12) Fender warning plate



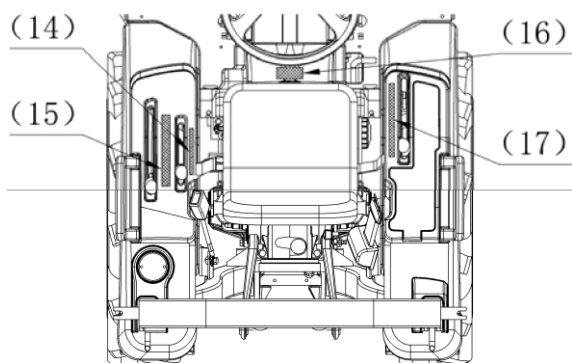
(13) Speedometer label

Model: TA254-A6

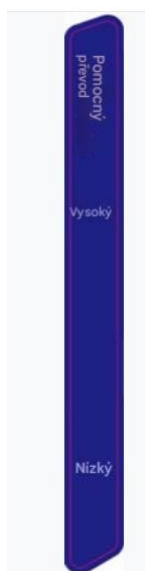


⚠ Instructions for safe operation

Please read carefully



(14) Label for the gears of the auxiliary gearbox Model: TA254-A6



(15) Label for gearboxes

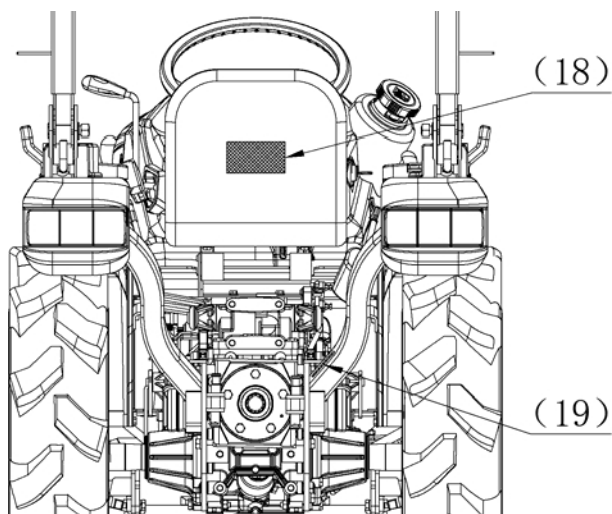


(16) Hydraulic lock plate



(17) Hoist gear label

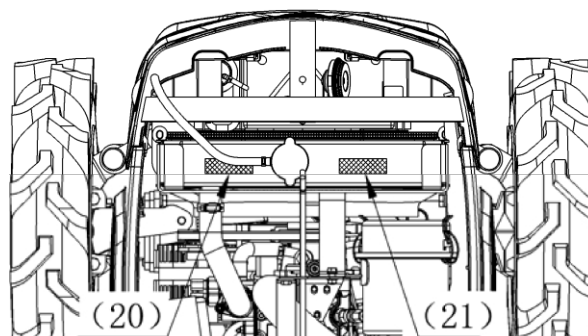
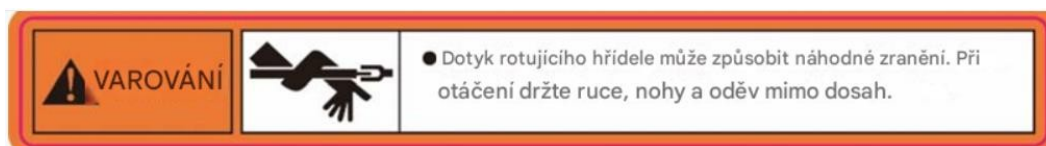




(18) No standing behind the vehicle label



(19) PTO warning label (both sides)

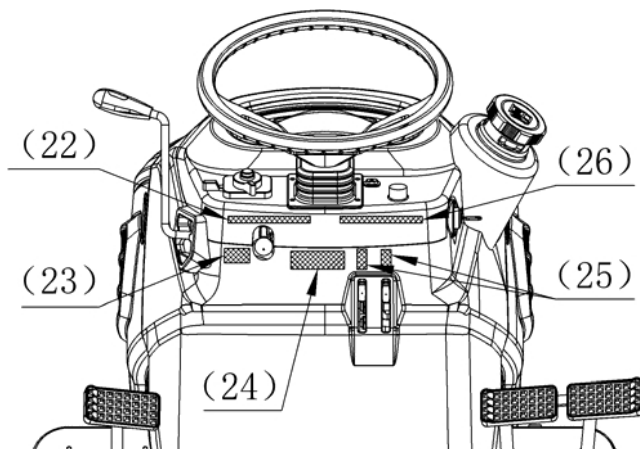


(20) Warning label for fan belt

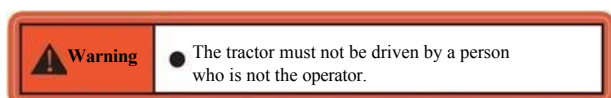


(21) Warning label for water tank

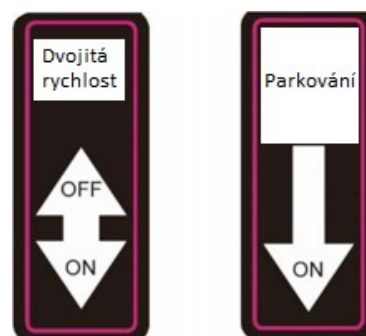




(22) Warning label for driver



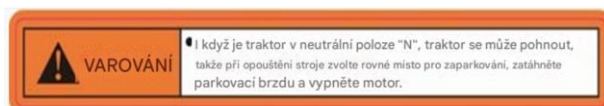
Label for two-speed turning and parking



(23) Steering wheel adjustment label



(25) Warning label for parking




(24) Warning label for two-speed turning



Maintenance of warning labels

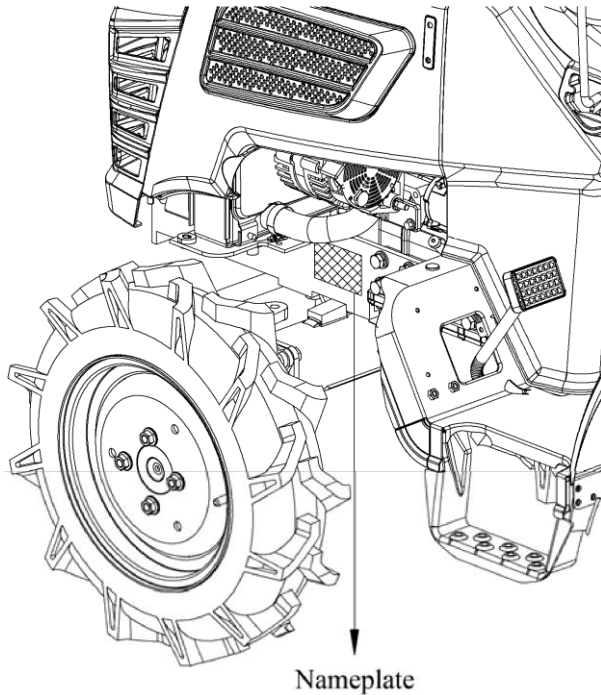
※ Read the warning labels carefully and observe the following safety precautions.

- Please keep the labels clean and undamaged.
-  If the warning label is dirty, wash it with soapy water and wipe it with a soft cloth.
- When washing the tractor with a pressure washer, the label may peel off due to the high water pressure. Do not spray high-pressure water directly on the labels.
- If the labels are damaged or lost, order them from the dealer in time and reapply them.
- When gluing new labels, wipe the gluing surface completely and glue the new labels to the backing. original position after the surface has dried.
- When replacing a marked part with a new one, replace the label at the same time.

Service and warranty

Service and Warranty Description

1. The warranty booklet and manual are included with the product and should be read carefully before use.
2. In case of any defects, suspicions and service problems during use, please contact **TAUROS** s.r.o. or our authorised dealers. Indicate the "**product model**", "**serial number**" and "**engine number**" of the machine used.
3. Tauros has provided the dealer with a complete parts atlas. Consult it and order the required parts.



Spare parts delivery period

1. The service parts delivery period (time) for this product is 5 years from its manufacture and delivered to the user.
2. The delivery of maintenance parts will be terminated on the end of the above delivery period in principle, but after the end of the delivery period, if there is still demand for parts supply, the delivery period and price will be negotiated.

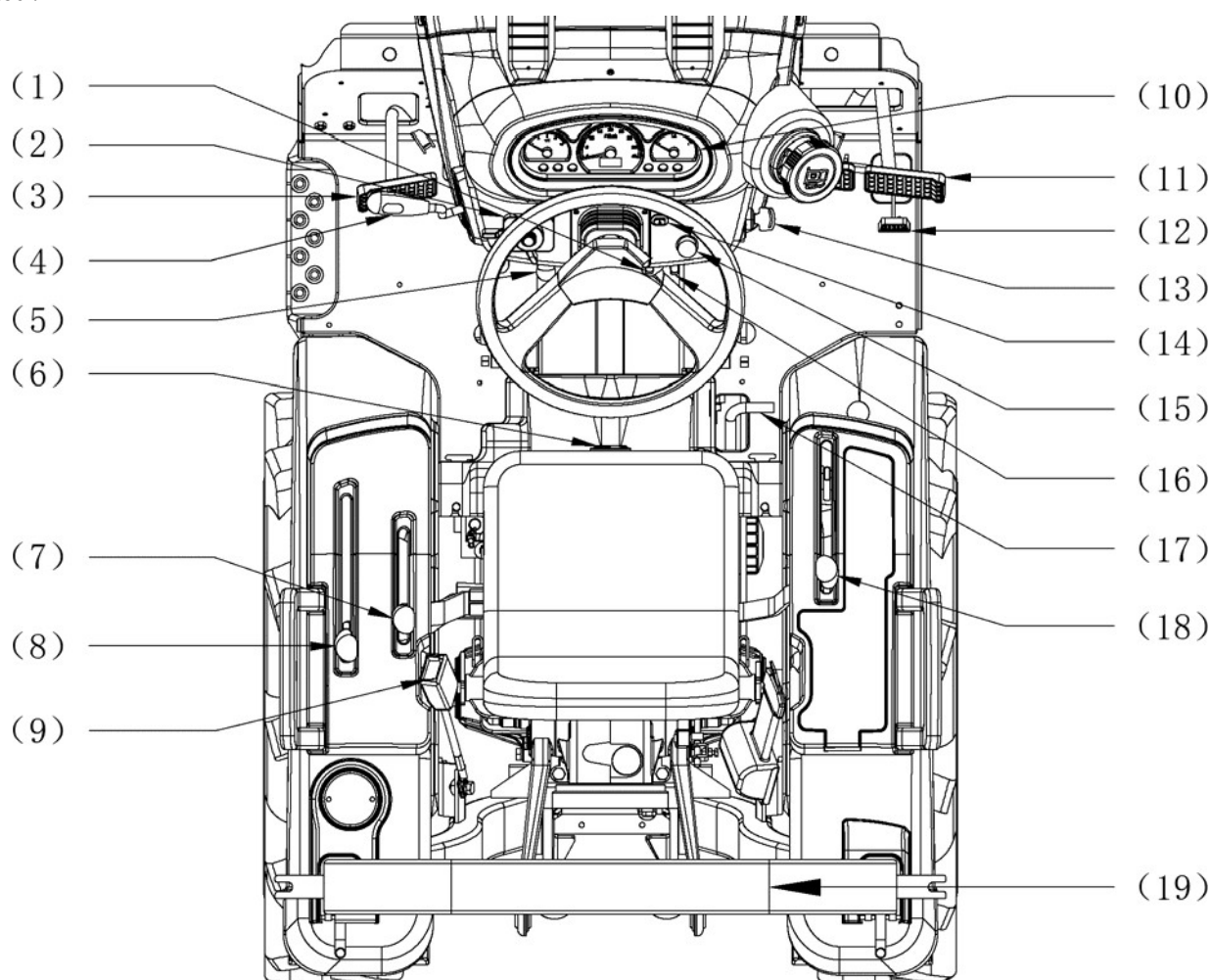


Warning

- Do not modify the machine. After modification, the original performance of the machine will not be guaranteed and personal injury may occur. Neither the dealer nor the company shall be liable for any accident or injury to health or property caused by unauthorized modification of the product by the user.
- Please note that if the tractor is used for purposes other than those specified and after modification, the dealer and the company will not provide warranty and post-warranty service.

Names of parts required for driving

Understand the correct names and functions of each component. If in any doubt, refer to the reference page listed on the part label.



Reference
page

Reference page

- (1) Two-speed steering handle **2**
- (2) Combination switch †
- (3) Clutch pedal †
- (4) Main shifter †
- (5) Locking adjustment lever **8**
- (6) Knob for setting the fall speed **3**
- (7) Auxiliary shift lever **8**
- (8) PTO Shift Lever †
- (9) Seat belts †
- (10) Instrument panel †
- (11) Brake pedal †
- (12) Pedal pedal †
- (13) Key switch †
- (14) Double flash switch †
- (15) Electronic Throttle Switch †

- (16) Parking handle 20, 28
- (17) Differential lock option **3**
- (18) Hydraulic lifting rod 35
- (19) ROPS **2**

Check before driving

To avoid trouble, it is necessary to carry out a daily check of the tractor before driving. For details, refer to "Simple tractor service and maintenance".



Attention

- Check the brakes, clutch, steering and safety equipment daily before starting and replace worn or damaged parts. In addition, check regularly for loose bolts and nuts.
- Before checking, be sure to remove the machine or lower the machine to the ground and switch off the engine. Do not hold a cigarette or light an open flame while refuelling.
- If fuel or oil is spilled, wipe it up.
- Do not open the radiator pressure cap during operation or immediately after stopping. Otherwise, hot water may spray out and cause scalding.
- Follow the procedure below when opening the covers around the engine for inspection and maintenance:
 - (1) After the engine has been stopped for 30 minutes, turn the covers on.
 - (2) If you touch the interior during inspection and maintenance, make sure there is no risk of scalding, injury.

Important

1. Adding or changing oil

- Before checking the oil quantity, park the tractor in a horizontal position. If the tractor is parked in a tilted position, the correct amount may not be displayed.
- Be sure to use the engine and gear oil listed in this manual.

Starting and stopping the engine



Warning

- Do not forget to read the contents of the chapter "Instructions for safe operation" in the operating manual.
- If there is a label on the tractor, be sure to read the contents of the label.
- Before starting the engine, sit on the seat and check that the main and PTO shift lever is in "N" (neutral) and the parking handle is in the "on" position.
Do not stand on the ground when starting the engine.
- Also, do not start the engine by connecting the starter directly. Doing so could result in

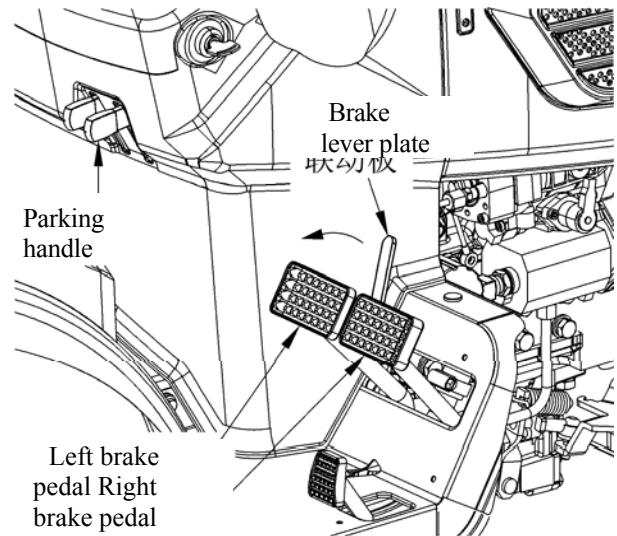
accidents v due to Sudden start tractor.
- When operating indoors, in a shed or bungalow, ensure sufficient ventilation. Inadequate ventilation may cause poisoning.
carbon monoxide from exhaust fumes.

Starting method

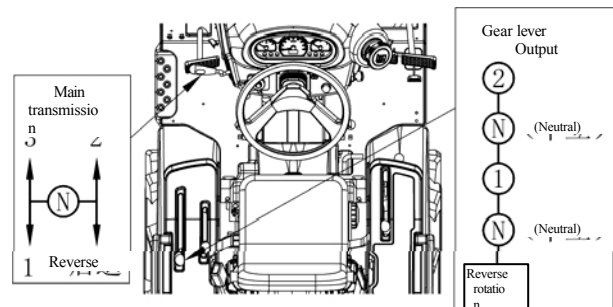
1. Check that the parking handle is in the [ON] position.

If the parking handle is not in the [ON] position, proceed as follows:

- 1) Connect the left and right brake pedals to the brake rod plate.
- 2) Depress the brake pedal.
- 3) Pull back the parking handle.



2. Set the main shift lever and the PTO shift lever to [N].

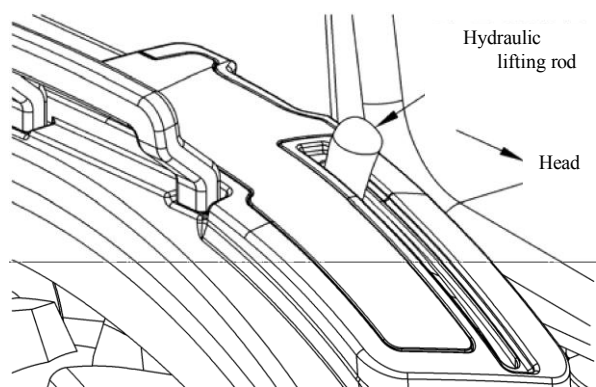


Note: If the main gear shift lever and PTO shift lever are not set to [N] (neutral), the neutral switch will activate and the engine cannot be started.

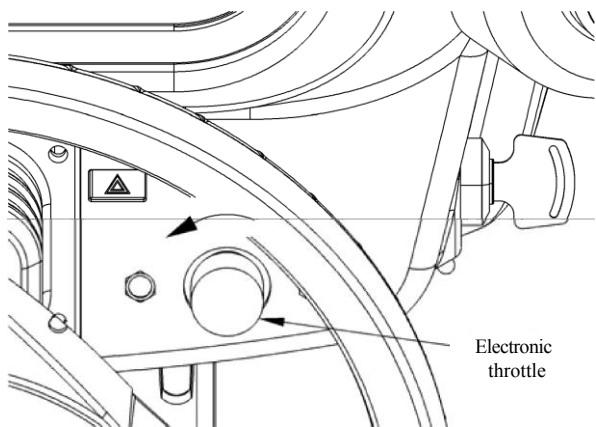
3. Start the machine by pushing the hydraulic lifting rod forward (forward).

Note: If the hydraulic mechanism is blocked, the machine cannot be started. For more information, refer to "Setting the work machine starting speed" in the "Work machine lifting device" section.

Starting and stopping the engine



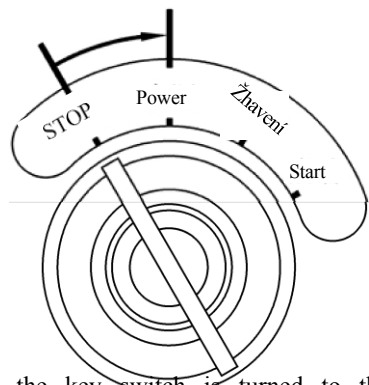
4. Turn the electronic throttle counterclockwise to the minimum throttle position.



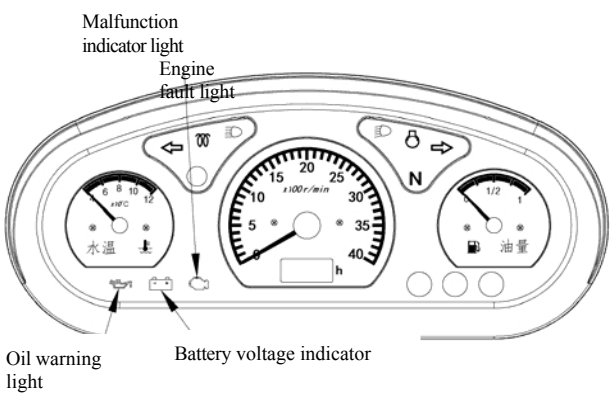
5. Depress the clutch pedal.

Note: The engine can be started without depressing the clutch pedal, but to ensure safety, depress the clutch pedal before starting.

6. Insert the key into the switch and turn it to the "Power" position.

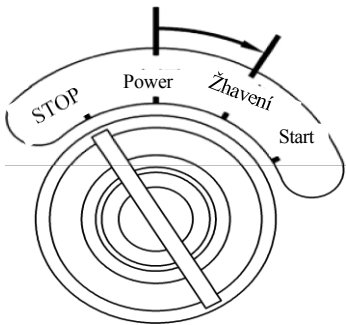


When the key switch is turned to the [Power] position, the oil light and the engine fault light come on, and the battery voltage light comes on only when the battery voltage is low or the engine is under voltage.

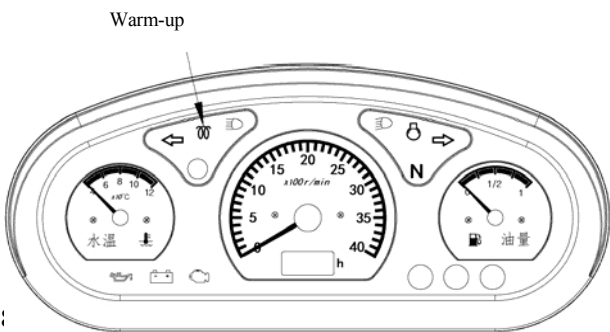


key to position. The warm-up time is given in the following table. If the engine is hot, there is no need to warm it up. To start the engine, turn the key directly to the "Start" position.

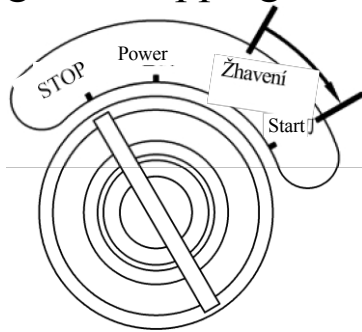
Temperature	Warm-up duration
Above 0 °C	2 ~ 3 seconds
0 ~ -5°C	5 seconds
-5 ~ -15°C	10 seconds



Note: The warm-up light is only on during warm-up and start-up.



Starting and stopping the engine



Important ter draws a large amount of current when starting the engine, so the engine cannot be started continuously for more than 10 seconds. If the site start fails, turn the switch off for at least 30 seconds and repeat the same operation.

Note: If the main gear shift lever and PTO shift lever are not set to [N] (neutral), the neutral switch will activate and the engine cannot be started.

9. After starting the engine, release the key handle. The key will automatically return to the position. [Power] position.

Important

- Do not put the key in the [Start] position while the engine is turning. Otherwise, the starter will be damaged.

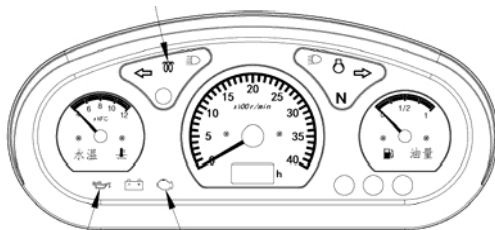
10. Check the oil light, malfunction

engine warning light, and warm-up light go out automatically.

If the oil warning light, engine malfunction warning light and warm-up warning light do not go out, stop the engine and check it.

2.

Warm-up

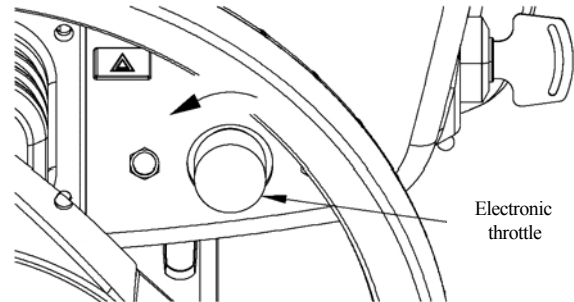


Engine Oil Malfunction indicator light

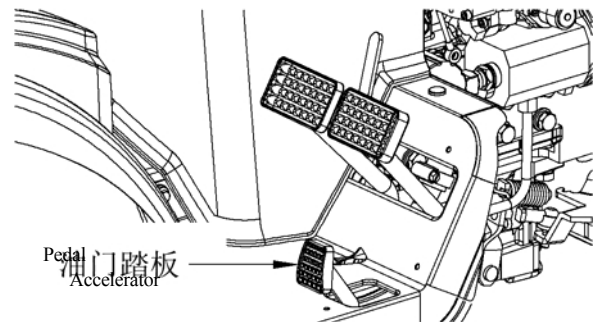
11. Slowly release the clutch pedal from the foot and continue to warm up at idle speed for approximately 5 minutes.

Stopping method

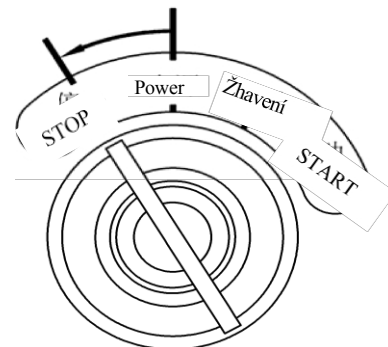
1. Slowly release the accelerator pedal from your foot and turn the electronic accelerator control. Counterclockwise to minimum to keep the engine idling.



Electronic throttle



2. Turn the key on the switch to the "Stop" position to shut off the engine.



3. Remove the key.

Important

- Be sure to remove the key to prevent misoperation by uninvolved persons and battery drainage.

Starting and stopping the engine

Warming up in cold weather



Attention

- Do not warm up the tractor in an area with insufficient ventilation. If there is insufficient ventilation, the exhaust gases produced by the engine can cause carbon monoxide poisoning.
- During warming up remember stop and apply the brakes.

After starting, perform the warm-up operation without increasing the load for about 5 minutes to allow the oil to pass through all parts sufficiently. Keep in mind that if the load is applied immediately after starting, parts may be damaged and the tractor may malfunction.

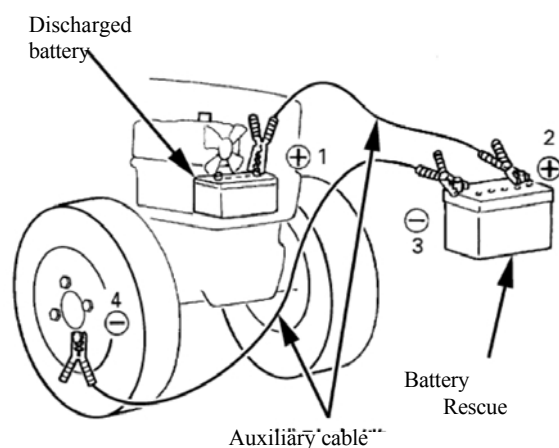
The steering mode of this product is hydraulic steering and the ISO 46 anti-wear hydraulic oil for the steering gear is also a gear oil. Therefore, be sure to warm up the steering gear according to the duration shown in the following table. If warming up is not carried out, the tractor will not reach good operating condition and failure may occur.

Temperature	Warm-up duration
Above 0 °C	About 5 minutes
Below 0 °C	More than 10 minutes

Emergency treatment for battery failure

If auxiliary cables are available (sold separately), the battery of the other vehicle can be used as a power source to start the engine.

1. Connect the auxiliary cables in the order shown in the following illustration.
- Connect the poles (+) of both batteries with the cable. Auxiliary cable.
 - Connect one end of the other auxiliary cable to the (-) pole of the rescue battery and the other end to the front tire mounting nut of the tractor.



2. Start the rescue vehicle and increase the engine speed slightly.
3. Start the tractor engine.
4. After the tractor has been successfully started, disconnect the auxiliary cables.

Note: Pull the auxiliary pole cable (-) first, then the auxiliary pole cable (+).

Important

- A 12 V battery must be used for the rescue vehicle.
- The (+) and (-) poles must not touch each other when connecting.
- Avoid wrapping the cables with a cooling fan or similar rotating object.
- When connecting, check the (+) and (-) poles carefully and do not connect them in reverse. Reverse wiring can damage the tractor and emergency service vehicle electronics.

Tractor operator



Warning

- ~~When starting and driving the tractor, carefully check~~ the front, rear, left and right sides and do not allow persons (especially children) to approach the tractor. Otherwise there is a risk of an accident. In addition, make sure that the front door frame or the height limiting bar does not hit the ROPS.
- When driving the tractor, do not allow persons (especially children) other than the driver to sit on the tractor. In addition, ensure that you drive on the seat.
- Do not drive near ditches, holes or verges roads, where the weight of the tractor can easily cause the structure to collapse, thus avoiding accidents with falls.
- In areas with thick grass or puddles, extra sometimes create invisible potholes that can cause a rollover accident when the tractor enters. Therefore, the driver must get out and check beforehand.
- The tractor may reverse when climbing a steep slope, but the machine must be lowered as far as possible to avoid overturning.
- Do not release the brake when starting on a slope, first depress the clutch pedal, downshift to a low gear and then slowly depress the clutch, then release the brake when the transmission is engaged and pay attention to the coordination of the throttle control.
- When driving downhill, downshift and slowly work through the braking power of the engine. Do not step on the clutch pedal.
- When the tractor is under heavy traction or approaching from wet ground, the tractor must be gradually accelerated to prevent the tractor from reversing.
- If the tractor turns sharply at high speed, it may ... can overturn. After confirming that the differential lock is off, slow down and turn slowly.
- When driving on the road, link the left and right sides. brake pedals together with the brake rod plate. Otherwise, the tractor may slip when braking.
- When transporting with the tractor, it is forbidden to overloading, exceeding the limit or speeding. Failure to do so may result in accidents.

Starting time (first time about 50 hours)

Please strictly observe the following rules during this period:

1. Avoid sudden starting and hard braking.
2. Do not exceed the speed limit and do not overload.
3. Do not work until the engine is fully warmed up.
4. Slow down when driving on uneven roads or slopes to ensure safety.
5. After 50 hours of operation, inspect parts and change engine oil according to the provisions of the Periodic Inspection Parts List.

Tractor operator

Adjustment around the driver's seat

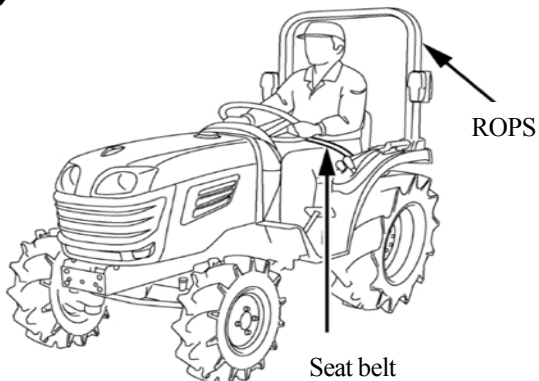
1) ROPS



Warning

To avoid injuries caused by a fall, observe the following contents.

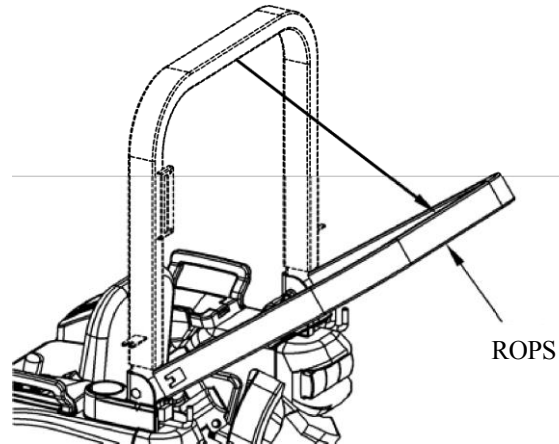
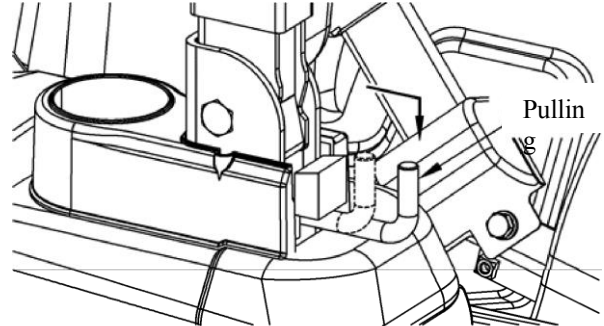
- Do not remove the ROPS. of the tractor while driving.
- Except when entering and exiting the warehouse and other situations where the ROPS may be struck, the ROPS must be erected and the seat belt must be fastened while driving.
- Do not fasten the seat belt when the ROPS is in the folded. In the folded position, the ROPS does not provide safety protection.
Do not adjust the ROPS. If the ROPS is is damaged or bent, which affects its strength, replace the ROPS.
- Push the left and right buttons when the ROPS is erected.
- right pull rod into the trough to ensure that the ROPS is secured in place. Check for loose pull rods during daily inspection.
Check that the ROPS is firmly attached.
- When tipping and setting up the ROPS, be sure to lower the machine to a level place, switch off the engine, stop the tractor and brake. When folding and erecting, stand on a firm support behind the tractor and work slowly and carefully with both hands.
- Adjust the length of the safety belt according to. the driver's body.



How to fold the ROPS

- Pull the tie rod all the way back and then slightly down to the side to unlock it. (Same for left and right side)
- Slowly fold the ROPS backwards.

Note: When folded, the ROPS may touch the work machine. Make sure to work without touching the machine.



2) ROPS mounting method

- Raise the ROPS fully until it can be moved forward.
- Lift the pull rods up a little and then slide them forward to the bottom of the trough. (The same applies to the left and right sides)
- Check that the ROPS system is actually locked and that the ROPS system is not loose.

1. Steering wheel

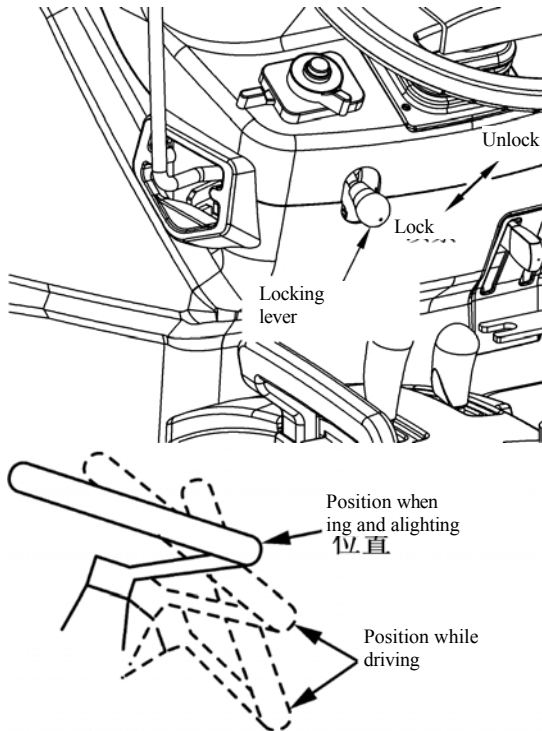


Attention

- Do not adjust the steering wheel while driving.
- After adjustment, check that the steering wheel is locked.

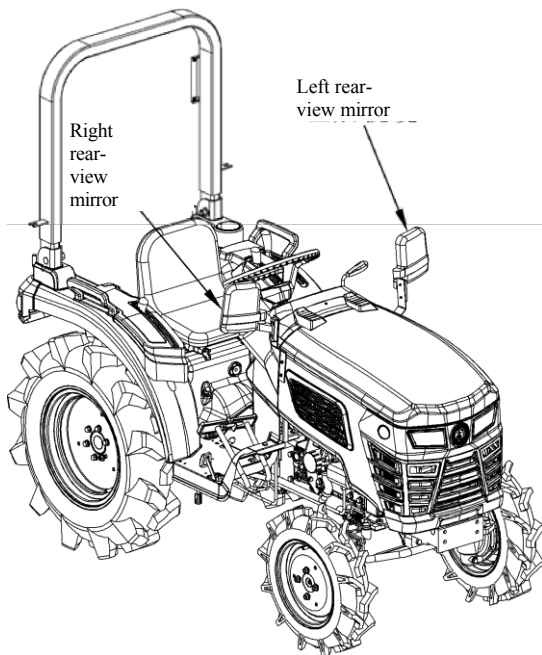
Tractor operator

The steering wheel position can be adjusted in three stages by pulling **the locking lever** in the "unlock" direction. After adjustment, pull the lever back in the "lock" direction.



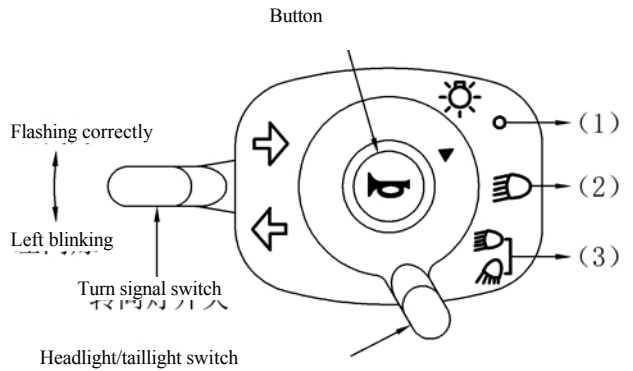
2. Rear-view mirror

Sit on the tractor seat and manually adjust the rear-view mirror to a position where the rear view can be fully observed.



Operation lights

1. Combination switch



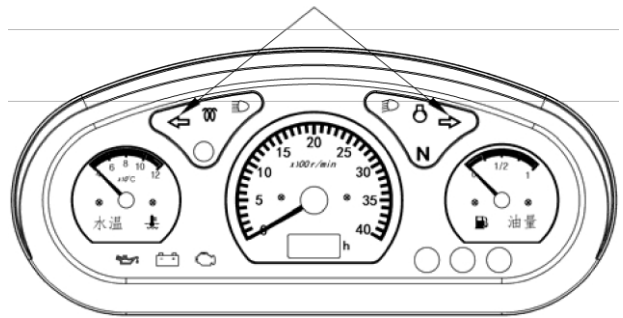
1) Headlamp/rear work lamp switch

- (1) Headlamp/rear work lamp position off.
- (2) Headlamp position on.
- (3) Headlamp/rear work lamp position on at the same time.

2) Direction indicator switch

- When the turn signal switch is switched on, the turn signals and turn signal flash.
- After completing a left or right turn, return the switch to the center position.

Turn indicator



3) Horn button

Press the horn button and the horn sounds.

Tractor operator

Starting / steering

1. Check brake pedal

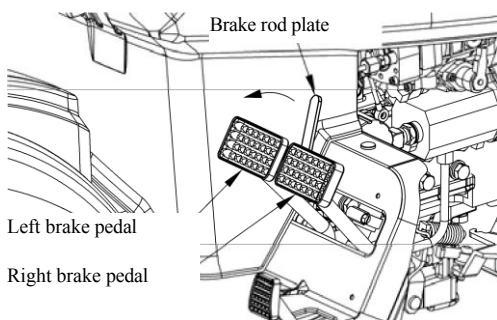


Warning

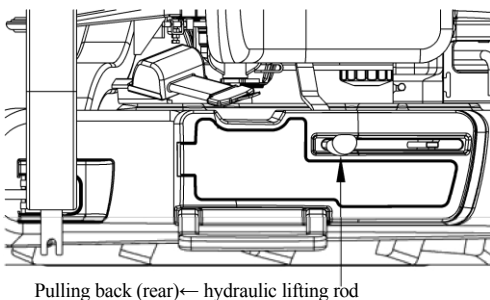
- Be sure to connect the left and right brake pedals to the brake rod plate when driving on the road, climbing, driving downhill, and when crossing a ridge. If you press the single-sided brake pedal while driving on the road, the tractor may slide or tip over and cause accidents.

The brake device is designed to force the machine body to stop running. Usually the left and right brake pedals are connected by a brake clutch plate and the left and right rear wheel brakes operate simultaneously. In addition, it differs from a conventional vehicle in that the left and right side brakes are independent and the single-side brake can only brake one of the rear wheels.

- 1) When driving, use the brake lever on the move.
- 2) The brake rod can be released during agricultural work.



2. Lift the working machine by pulling the hydraulic jack backwards.



3. Depress the clutch pedal



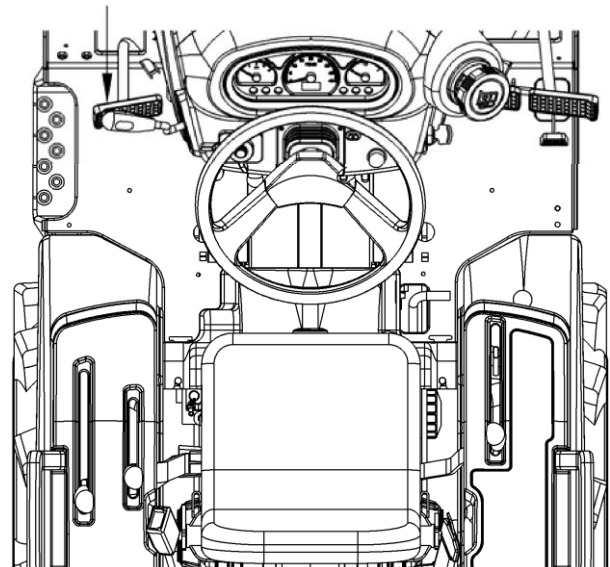
Attention

- Suddenly releasing the clutch pedal may stop the engine. Release the clutch pedal from the foot slowly.

The clutch is used to connect and disconnect engine power to the operating components.

- The clutch engages when the pedal is depressed. The brake will be disengaged.
- The clutch will engage when the foot pedal is released.

The clutch pedal



Important

When using the following devices, be sure to depress the clutch pedal and disconnect the power supply to the engine before starting operation.

- Main shift lever
- Auxiliary gear lever
- PTO shaft shift lever
- Two-speed rotary handle

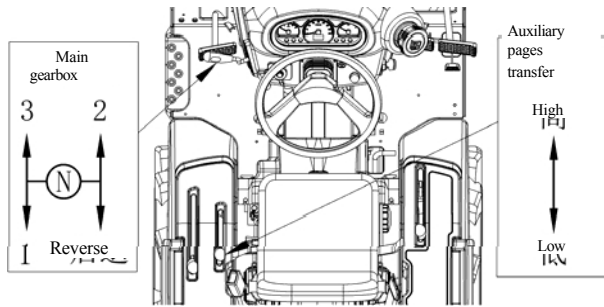
3. Select the travel speed

- 1) TA254-6A Specifications

Tractor operator

Combination of both levers can achieve the travel speed

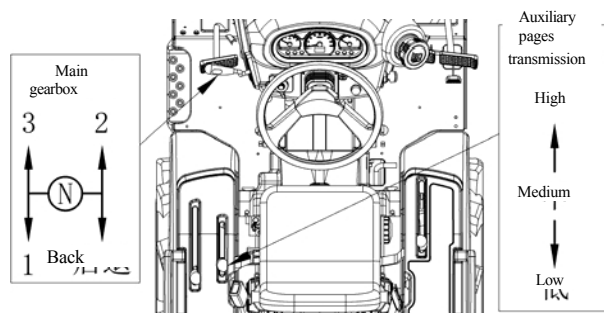
6 forward gears and 2 reverse gears.



2) Specifications of TA254-9A

By combining both levers, travel speed can be achieved

9 forward gears and 3 reverse gears.



Important

- Be sure to depress the clutch pedal to disconnect the power to the engine before operating the main/auxiliary gear shift levers. Gear lever operation while driving can damage the gears.

3) Main gear shift lever

This lever is used to select the driving speed in 3 forward gears and 1 reverse gear.

4) Auxiliary gear lever

Set it to [Low] for low speed, [Medium] for medium speed and [High] for high speed.

The auxiliary gear lever in [Low] is mainly used for agricultural work.

The auxiliary gear lever in [Medium] is mainly used for road driving.

The auxiliary gear lever in [High] is used

4. Engine acceleration

1) Electronic throttle

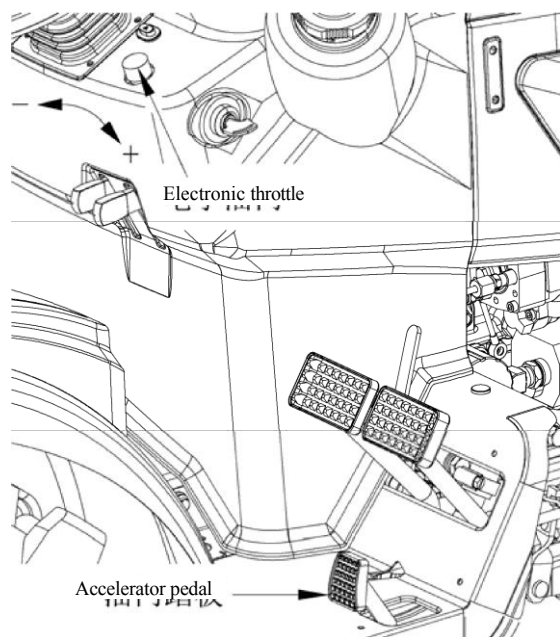
Mainly used in agricultural operations.

- Turn clockwise (+) to increase the engine speed.
- Turn counterclockwise (-) to reduce engine speed.

2) Accelerator pedal

Mainly used for driving on the road.

- Press the pedal to increase the engine speed.
- Release the pedal to reduce the engine speed to the value set by the electronic throttle



5. Release the parking brake

Depress the brake pedal, the parking handle automatically returns upwards and the parking brake is released.

6. Slowly release the clutch pedal from the foot and drive off.

Important

To extend the life of the clutch and reduce the time and frequency of servicing the half clutch, observe the following precautions:

- Do not use the clutch to adjust the speed. Use gear or throttle selection.
- Select the appropriate travel speed and engine speed for the operating conditions.

Tractor operator

- Do not touch the clutch pedal while driving. Otherwise, you may use the clutch halfway without knowing it.

7. Operate the two-speed rotary handle according to the actual conditions.

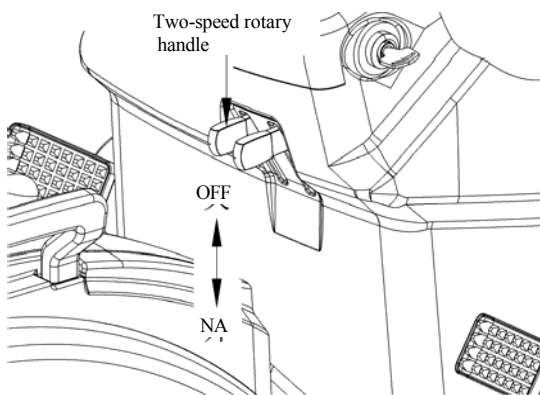


Warning

- Do not drive outside the agricultural field in two-speed rotation. Be sure to switch off two-speed rotation before leaving the agricultural field. Two-speed turning is suitable for rotary tillage in dry fields, rice paddies and other places. Improper handling can cause the tractor to tip over or malfunction.

1) Operating procedures

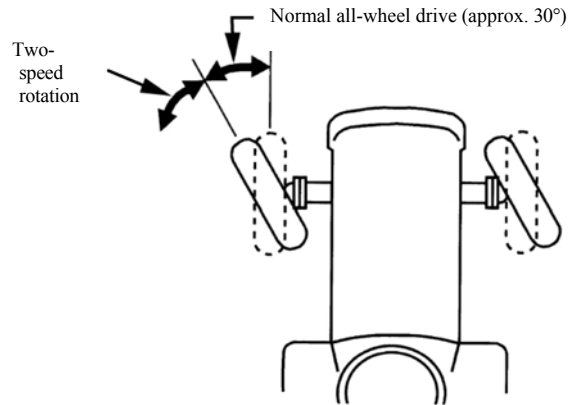
- Stop the tractor by depressing the brake pedal and adjust the steering wheel so that the front wheels run straight.
- When the low-speed gear is engaged and the two-speed handle is pulled to the **[ON]** position, the two-speed condition is engaged.
- When the two-speed handle is pulled to the **[OFF]** position, the two-speed status is turned off and all-wheel drive is resumed.



2) How to use the two-speed rotary

When the tractor is set in motion and the steering wheel is turned, the front wheels turn at the normal speed of the all-wheel drive until the front wheel angle reaches approximately 30° from straight ahead.

30°, two-speed rotation is activated and the front wheel starts rotating at approximately twice the previous speed. At this point, the tractor can turn smoothly with a small turning radius.



Important

- Do not use the two-speed function if the front wheel is carrying a heavy load, e.g. a front work machine, or if the speed is high.
- If the front wheels are moving straight, switch the two-speed rotary control to **[ON]** / **[OFF]**.
- Use the two-speed rotary function carefully when the shift lever of the auxiliary gears is set to **[Medium]** (TA254-9 A, TA304- 9 A).
- High-speed two-speed hold
When the two-speed rotation handle is set to **[ON]** and the auxiliary gear shift lever is set to **[High]**, two-speed rotation is automatically disabled. When the auxiliary gear shift lever is returned to **[Medium]** or **[Low]**, the two-speed function resumes. This method can only be used in off-road operation. When driving on the road, set the two-speed rotation handle to the **[OFF]** position.

Parking



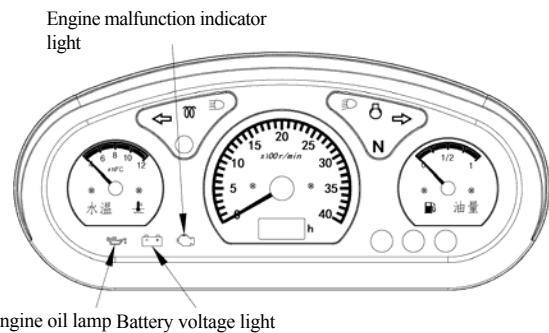
Attention


- When parking, select a level place where the tractor can be parked stably, place the PTO shift lever in [Neutral] (N) and remove or lower the implement to the ground. Place the main and auxiliary gear shift levers in [Neutral] (N), turn the parking handle to [On], then turn off the engine and remove the key. If you have to stop on a ramp, place wheel stops in front of and behind the rear wheels.
Do not park where flammable substances are present.
- Stack materials such as hay and straw.
Wait until all hay and haylage has been stacked before getting out of the tractor.
- the machine and other parts stop turning.
If you want to cover the tractor with
- a tarpaulin, do so only after the muffler and engine have cooled sufficiently.

1. Slowly release the accelerator pedal from the foot and turn the electronic throttle control counterclockwise to the minimum to idle the engine.
2. Depress the clutch and brake pedals.
3. After coming to a safe stop, place the main/auxiliary gear shift levers and the PTO shift lever in [Neutral] (N).
4. If a working machine is installed, start it by slowly pushing the hydraulic jack forward (in the direction of the head).
5. Retract the parking handle, set it to the [ON] position, and lift the foot off the clutch and brake pedals.
6. Turn the key to the [Stop] position, switch off the engine and remove the key.

Confirm action in traffic

1. When the tractor is in operation, always pay attention to ensure that the operation of the various parts is smooth. In the following cases, stop the engine immediately:
 - Sudden reduction or increase in engine speed.
 - Sudden unusual sound.
 - The colour of the exhaust suddenly turns black.
 - Illumination of the warning lights on the instrument panel.
2. Always pay attention to the instrument panel when operating the tractor. If the following warning lights illuminate on the instrument panel, stop the engine immediately and check the parts associated with the lights. If you cannot determine the cause of the warning lights, contact your dealer.



1.  **Oil lamp (pressure light)**
Illuminates when the lubrication system is abnormal while the engine is running. Alarm mode:

- On page lamp flashes and horn . intermittently, with a cycle of 0.6 seconds, and the horn sounds three times every 20 seconds.

- 2)  **Battery voltage indicator light**

Illuminates when the electrical system voltage is abnormal while the engine is running. Alarm mode:

- If the voltage is below 12.3 V, the bulb flashes with a period of 0.6 seconds and the buzzer does not sound;
- If the voltage is higher than 14.8 V, the bulb flashes and the horn sounds intermittently, with a cycle of 0.6 seconds, with the horn sounding 3 times every 20 seconds.

Tractor operator

3) Motor fault light

Illuminates in the event of a motor failure or abnormal operation. Alarm mode:

- The light flashes and beeps. intermittently, with a cycle of 0.6 seconds, and beeps twice for each fault.

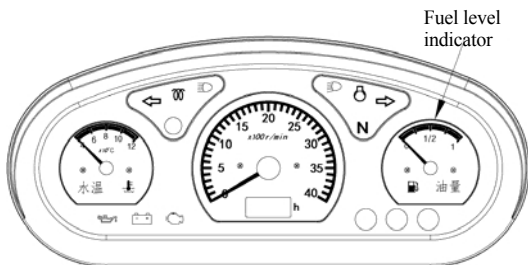
3. When operating the tractor, always pay attention to whether the instrument display is normal.

1) Fuel gauge

- If the indicator is approaching the red area of the fuel level, refuel as soon as possible. Since there is air in the fuel system, venting the required after refilling.

Note: For details on how to bleed, refer to "Bleeding the Fuel System" in the "Essential Checks and Maintenance" section.

- Alarm Mode: Indicator light flashes and beeps intermittently on a 0.6 second cycle, and the horn sounds once every 180 seconds.



2) Water temperature display



Attention

- If you open the radiator cap while the engine is running or immediately after stopping the engine, coolant may splash out and scald you. After the engine has stopped and cooled sufficiently for at least 30 minutes, slowly turn the radiator cap to release residual pressure, then remove the cap.

If the gauge points to the red area of the water temperature reading, the engine is overheated. Check as follows:

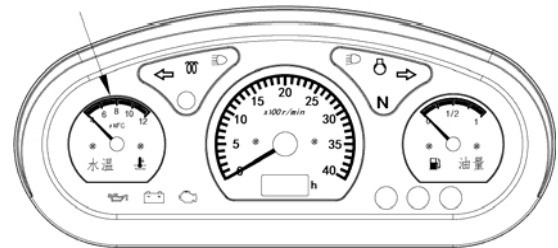
- Stop tractor operation;

- Allow the engine to idle for about 5 minutes;
- Stop the engine, allow it to cool for at least 30 minutes, and then perform the following inspection and maintenance:
 - a) Check that the amount of coolant in the tank and radiator is sufficient and that there are no leaks.
 - b) Check the radiator cap and radiator fins for dirt and clogging.
 - c) Check the fan and belt for looseness.

Important

- If the overflow pipe of the tank is leaking water vapour, check it according to the procedure above.

Water temperature indicator



High water temperature alarm mode: the indicator light flashes and the horn sounds intermittently, with a cycle of 0.6 seconds, with the horn sounding 3 times every 20 seconds.

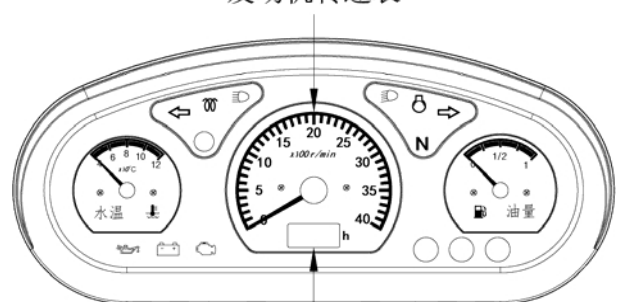
3) Engine speedometer

Displays the engine speed in revolutions per minute.

4) Motor hour counter

The motor hour meter has 6 digits, the first 5 digits are whole numbers, the last digit is decimal and the unit is the hour (h).

Engine speedometer



Motor hour counter

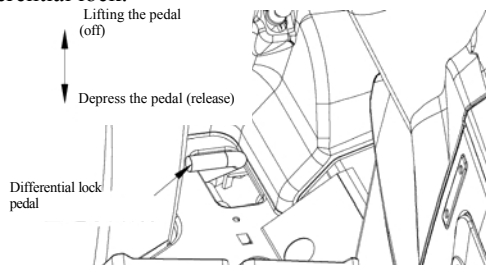
Tractor operator

How to use the differential lock

1. Differential lock pedal

The differential lock forces the left and right rear wheels to travel at the same speed, which can effectively prevent skidding.

- Press the differential lock pedal to activate the differential lock.
- Release the differential lock pedal to deactivate the differential lock.



2. Range of use



Attention

- Do not turn when the differential lock is engaged and be sure to disengage the differential lock before turning.
- Never engage the differential lock while driving on the road. Otherwise, the tractor will not be able to turn normally.

Release the differential lock in the following cases:

- 1) When one side of the wheel slips and cannot drive straight in and out of the field of operation, the front machine is in operation or on other occasions.
- 2) When the wheel slips into the soft part of the tire, operating field, making travel difficult.
- 3) For example, in an operation requiring traction forces, such as rotary tillage, one side of the wheel slips.

Important

- First lower the engine speed, then depress the differential lock pedal.
- If the differential lock pedal does not return easily to its original position, depress the left and right brake pedals lightly alternately.
- When not using the differential lock, do not place your foot on the differential lock pedal.

Rotation mode



Attention

- Do not turn at high speed. Otherwise there is a risk of tipping over.
- After making sure the differential lock is off, ease off the throttle as much as possible to reduce engine speed and turn slowly.

Driving on a slope



Warning

- Check that the left and right brake pedals are connected to the brake rod plate.
- Check that the differential lock pedal returns to its original position and that the differential lock is off.
- Do not step on the clutch on an incline. pedal. Otherwise, the tractor will be in neutral and travel in inertia. If you drive inertia, you may not be able to brake at high speeds, which could lead to a rollover accident.
- Do not change speed when driving on steep slopes and change to a safe speed beforehand.

1. Drive at a safe speed for the slope conditions and try not to increase the load on the vehicle. Engine.
2. When climbing, shift into a slower gear to avoid excessive vibration. in advance.
3. Make full use of engine braking when driving downhill. The lower the speed, the better the better the braking effect of the engine.

Tractor operator

Precautions for access to agricultural land



Warning

- Be sure to connect the left and right brake pedals to the brake rod plate.
- When entering and exiting farmland, when encountering steps with a large height difference, use a stepping stone to help you through.
When crossing a ridge, the tractor must pass around at right angles to the ridge.
- When entering and leaving farmland, shift to a safe speed beforehand and do not shift halfway.
- Turn the two-speed swivel handle to



1. Lowering the machine close to the ground will prevent the tractor's front wheels from lifting. Pay attention to the balance of the front and rear wheels before starting operation.

Note: Some types of work machines can be damaged by contact with the ground. Please pay attention to the height above the ground for this type of work machine.

2. When travelling uphill, the ability to move backwards is greatly increased by using the of the all-wheel drive system.



Attention

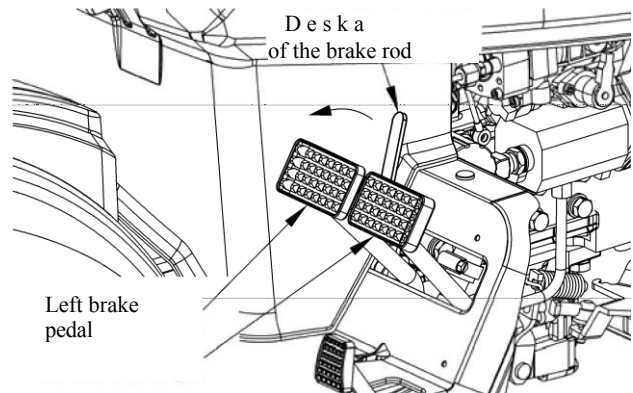
- The left and right sides of the springboard must be aligned with the front to ensure that the front and rear are not displaced.
- When the springboard and steps for the suspended springboard is large, the driver must pay special attention.
- Move the shift lever to a safe low position.
advance the gear and drive low
The gears will be downshifted.
- Use a sufficiently strong, wide and long stepping-stone (length with a slope of less than 15°: more than four times the step height), with picks and claws, and select a place where the stepping-stone will not tilt due to the weight of the tractor.

Road safety precautions



Warning

- When driving on the road, be sure to connect the left and right brake pedals to the brake rod plate. Otherwise, if only one brake pedal is depressed, the tractor may slide sideways, resulting in accidents, e.g. overturning, falling or collision.



Attention

- When driving on the road, observe the relevant laws and regulations to drive safely.
- Do not allow anyone other than the driver to drive. Otherwise, a crash may occur.
- When crossing farm tracks with ditches or farm roads with both sides sloping, special attention must be paid to the shoulders to avoid caving in.
- When the tractor is traveling on the highway installed with rotary cultivator and other working machines, care should be taken at all times to avoid accidents caused by the collision of the working machine with other vehicles, poles, barriers, etc.

1. When changing direction on the road, inform other vehicles of the direction of travel.
with a directional light in advance.
2. When passing through an intersection, you must stop to confirm left and right, then pass.
Quickly.

Tractor operator

Safety precautions and unloading



Attention

- The left and right sides of the springboard must be aligned with the front to ensure that the front and rear are not displaced.
- When the springboard and steps for the suspended springboard is large, the driver must pay special attention.
- Move the shift lever to a safe low position. Pre-engage the gear and drive at a low speed. Use a sufficiently strong, wide and long stepping-stone (length with a slope of less than 15°: more than four times the height of the truck's loading platform), with handles and claws, and select a location where the stepping-stone will not tilt due to the weight of the tractor.

When loading or unloading the tractor onto or from the trolley, be sure to **[connect]** the left and right brake pedals and load in **[reverse]** mode and unload in **[forward]** mode.

Safety precautions for power steering



Attention

- When the engine is running, the hydraulic power steering makes it easier to operate the steering wheel with less force, so drive carefully.

Important

- The hydraulic power steering only works when the engine is on. At low engine speeds, the steering becomes somewhat heavier. When the engine stops, the steering wheel has a lot of play, but there is no problem with functionality.
- If you are using a front-mounted work machine. the steering wheel can be heavy if you operate it with the tractor engine stopped. In this case, operate the steering wheel while the tractor is moving at low speed.
- When the steering wheel turns down. the operating sound of the safety valve (overpressure sound) is heard. Do not turn the steering wheel when the safety valve sounds (for a short time it does not matter). In addition, try to avoid turning the steering wheel continuously when the steering wheel is turned all the way down.
- Avoid turning the steering wheel unnecessarily. (turning the steering wheel without driving) as this accelerates the wear of the tyres and wheel hubs.
- In winter or in cold temperatures, please. Warm up fully before use.

Hydraulic mechanism, three-point suspension and PTO shaft

Hydraulic mechanism

When the engine is running, the hydraulic mechanism is still functional.

1. Using the hydraulic jack

Operate the hydraulic lifting rod and raise or lower the work machine using the hydraulic mechanism.

1) The hydraulic jack is set to [Oil pressure] (medium).

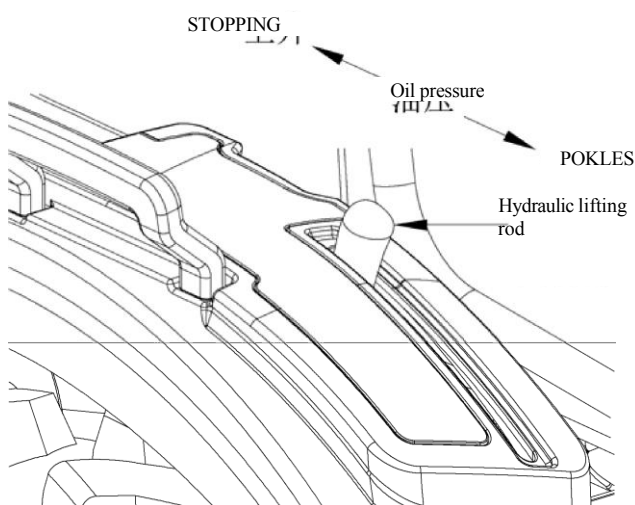
The work machine cannot move up and down.

2) The hydraulic lifting rod is set to the [Lift] position.

The work machine is lifted to the limit position and the hydraulic lifting rod automatically returns to the [Oil pressure] (Center) position. At any time during lifting, the hydraulic lifting rod can be pulled back to the [Oil pressure] (Center) position and lifting stops.

3) The hydraulic lifting rod is set to the [Lower] position.

The working machine drops to the limit position and the hydraulic lifting rod automatically returns to the [Oil pressure] (Center) position. At any time during lowering, the hydraulic lifting rod can be pulled back to the [Oil pressure] (Center) position and lowering stops.



Note: Some types of work machines may be damaged by contact with the ground. Use caution when operating the hydraulic lifting rod.

2. Adjusting the fall speed of the working machine

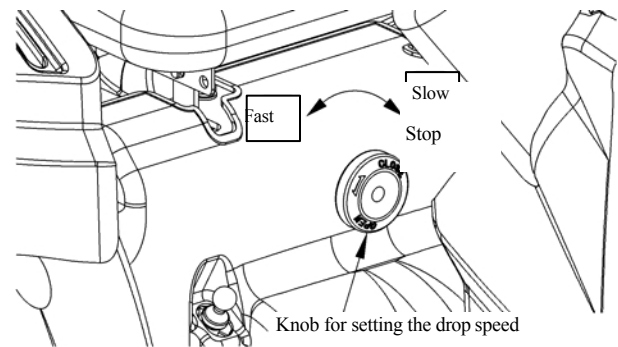


Attention

When checking the rotating machine:

- Secure (stop) the machine with the fall speed adjustment knob to prevent it from falling.
- After locking with the fall speed adjustment knob, place the hydraulic lifting rod in the [Oil pressure] position (Center) to ensure that the machine does not fall.
- When locking, place the jack or block under the lock. Secure the working machine to prevent accidental falling of the working machine.

The lowering speed of the work machine can be adjusted by turning the lowering speed knob.



1) Turn in the [fast] direction:

The flow through the hydraulic circuit is increased and the fall speed of the working machine is accelerated.

2) Rotate in the [slow] direction:

The flow through the hydraulic circuit will decrease and the falling speed of the working machine will slow down.

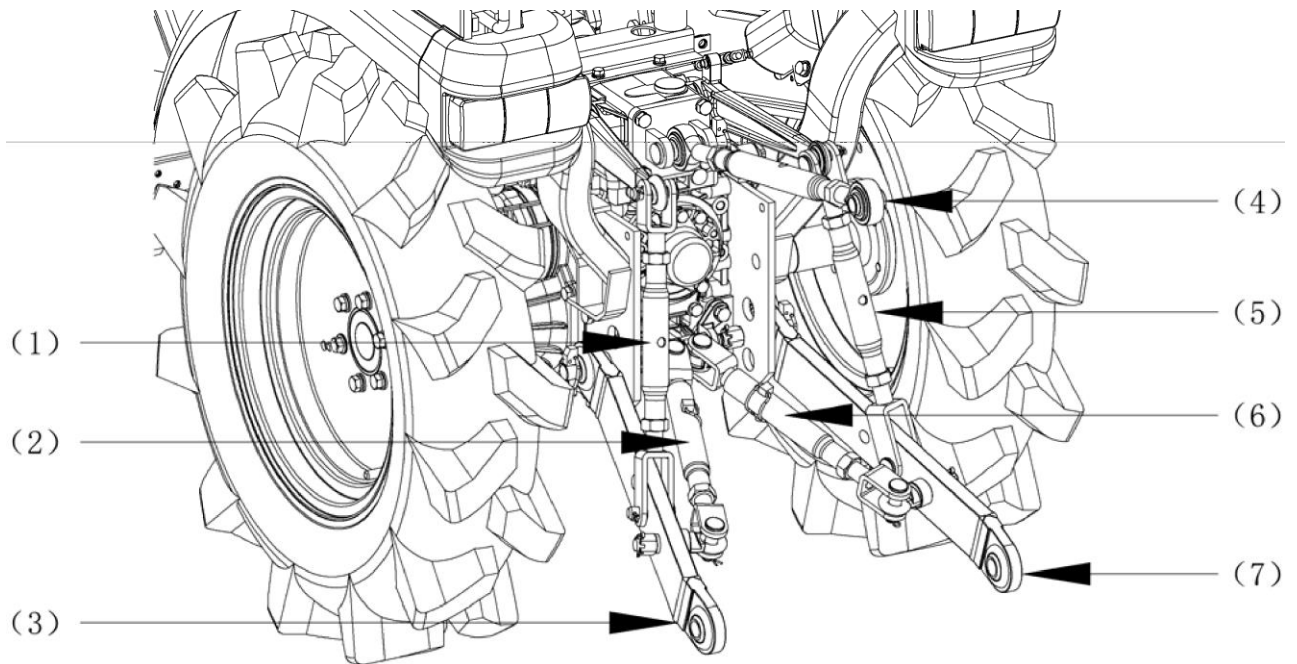
3) Turn gently towards the end in the [slow] direction.

The hydraulic circuit is closed and the oil pressure is blocked (stopped). The oil pressure can be blocked by turning slightly. Please do not turn by force.

Note: A suitable drop speed for rotary working machines is 2 to 3 seconds from lifting to ground contact. If the fall speed is too high, the work machine may not operate smoothly.

Hydraulic mechanism, three-point suspension and PTO shaft

Three-point suspension

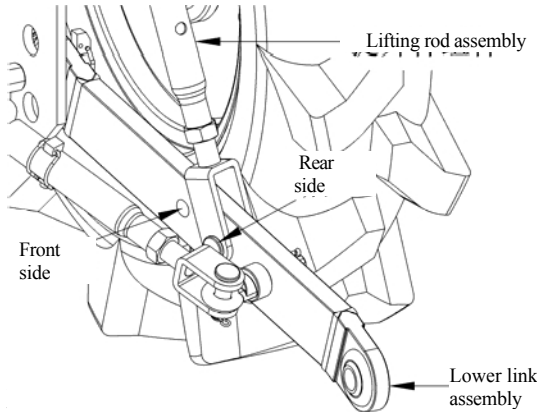


- (1) Left lifting bar assembly
- (2) Left end bar assembly
- (3) Left lower link assembly
- (4) Upper control arm assembly
- (5) Right lifting rod assembly
- (6) Right end rod assembly
- (7) Right lower link assembly

Hydraulic mechanism, three-point suspension and PTO shaft

1. Preparation before installation

Front or rear mounting holes can be selected for the connection between the lift arm assembly and the lower arm assembly. Select the appropriate mounting holes according to the working machine (same for left and right side).



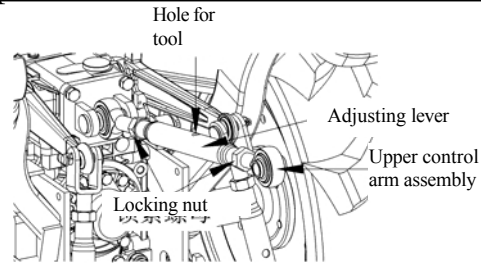
Warning

- Always switch off the engine before assembling and disassembling the work machine. In addition, wait until the rotating work machine has come to a complete stop.
- Do not step between the tractor and work machine when the parking brake is not applied.
- Install and dismantle the working machine in a firm and level place.
- When installing the working machine, lift the working machine up and down using the hydraulic mechanism and check that it does not interfere with the tractor or that the universal joint has not fallen out.

1) Upper arm adjustment

Adjust the tilt (up and down) of the working machine by turning the **adjustment rod** as follows:

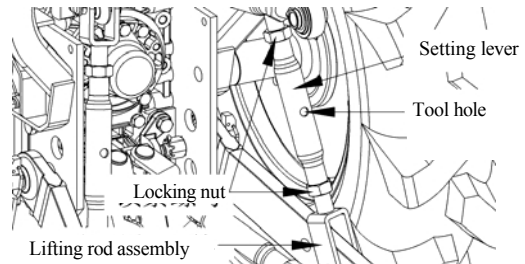
- Loosen the two **lock nuts** with a spanner;
- Insert the screwdriver into the **tool hole** and then turn clockwise to the appropriate position;
- Tighten the two **locknuts** with the wrench.



2) Adjust the lifting rod assembly (same for left and right side)

Adjust the inclination (left and right) of the working machine by turning the **adjustment rod** as follows:

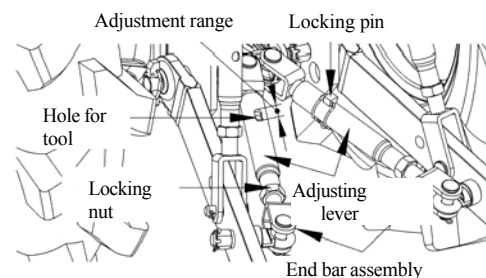
- Loosen the two **lock nuts** with a wrench;
- Insert the screwdriver into the **tool hole** and then turn clockwise to the appropriate position;
- Tighten the two **locknuts** with the wrench.



3) Adjusting the end bar assembly (same for left and right side)

Adjust and limit the side roll of the working machine by turning the **adjustment rod** as follows:

- Loosen the **lock nuts** with a wrench and remove them.
Remove the locking pin by removing the nut and removing the locking pin;
- Insert the screwdriver into the **tool hole** and then turn the clockwise/counterclockwise to the appropriate position (**the adjustment range** is shown in the illustration);
- Tighten the **lock nuts** with a wrench and reinstall the **locking pin**.



Hydraulic mechanism, three-point suspension and PTO s h a f t

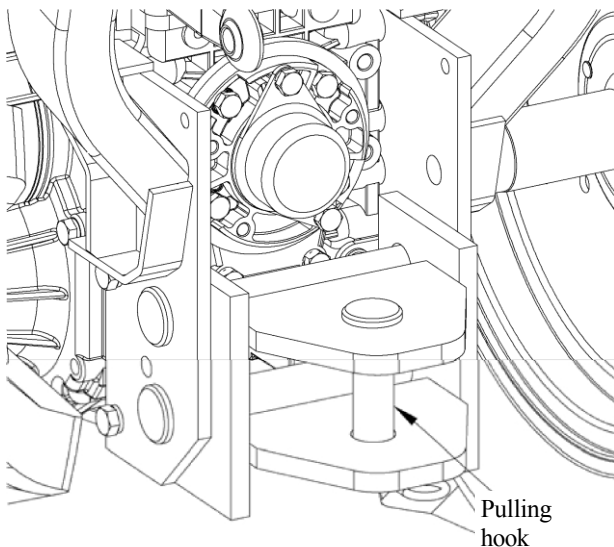
Pulling hook



Warning

- When towing, be sure to use the tow hook and do not hang onto the three-point hitch bracket or axle. Failure to do so may result in a rollover accident.
- When using the three-point hitch to attach the work machine, remove the towing hook. Otherwise, the three-point hitch interferes with the towing hook and cannot be mounted normally.

The traction function only applies to the traction equipment for this product. When pulling other objects, consult your dealer first.



PTO

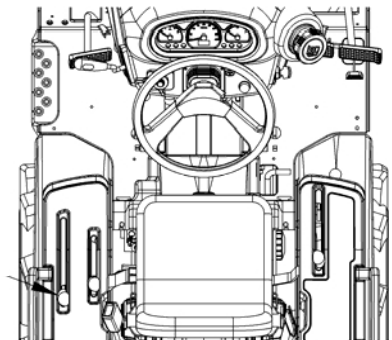
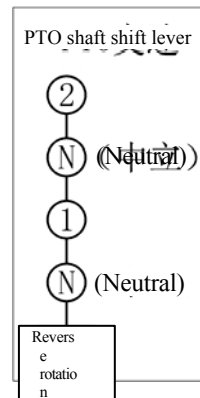
1. PTO control lever



Caution

- Strictly observe the prescribed operating speed of the working machine being used.
- Do not use a work machine that is designed to turn at low speed if the PTO shaft is turning at high speed.

The PTO speed can be switched to two forward rotation stages and one reverse rotation stage. When shifting gears, be sure to depress the clutch pedal before shifting.



Safety precautions when using the PTO "backwards":

1) Applicable working machine

- Only rotating work machines specified by the manufacturer are permitted. The use of rotary machine tools other than those specified by the manufacturer is prohibited.

The manufacturer may cause machine failure.

2) Applicable condition

- Rotary tillage is carried out in soft fields.

Note: If rotary tillage is carried out at an engine speed of approximately 1500 rpm, mud spraying can be effectively reduced.

- Unwrap the straw from the rotary blade.

3) Unusable condition

- Agricultural operations are carried out backwards.
- Rotary tillage is carried out in fields with large amounts of gravel.

Hydraulic mechanism, three-point suspension and PTO shaft

- The rotary blade of the working machine is connected in reverse for agricultural operations.

2. Crankshaft cap



Attention

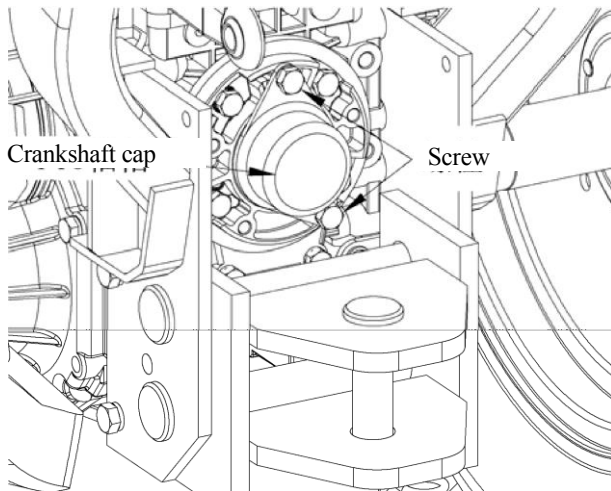
- When the crankshaft is not in use, grease the crankshaft and fit the crankshaft cap. Failure to do so may result in injury due to hitting the rotating crankshaft.

If you do not use the PTO shaft cover,



Crankshaft cover installation method:

Place the crankshaft cover on the bare crankshaft and secure it with two screws.



Tyres and weight

Tyres

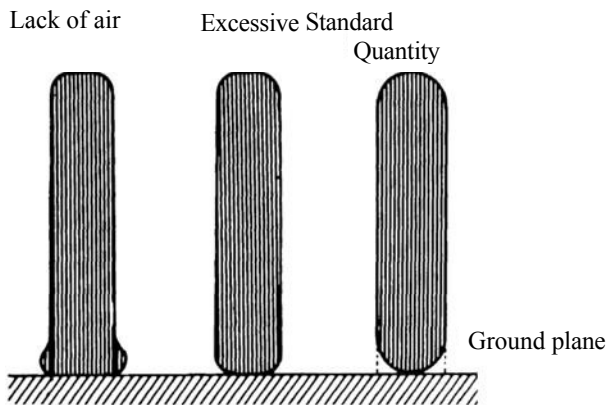


Warning

- Make sure that the tire pressure specified in the owner's manual is maintained. Over-inflation can lead to a tyre burst and cause injury.
- If the tire is scratched to the cord. thread, please do not use the thread as there is a risk of the tyre bursting, which may cause an accident.
- Ask professional maintenance personnel to repair and replace damaged tires, tubes, wheel hubs, etc.

1. Tyre pressure

Check the correct air pressure in the front and rear wheels. The criteria for judging by appearance are shown in the following figure:



2. Standard air pressure

	Specifications	Air pressure (kPa)
Front wheel	5-12	150
Rear wheel	8-16	180

Wheel track adjustment

The front and rear wheel track cannot be adjusted after the tractor leaves the factory, but the user can install [front and rear countershafts] as required by the dealer (purchased separately). In this case, the front and rear axles can be adjusted in five stages.



Attention

- In the case of traction operation, slope operation, front implement operation, etc., to keep the left and right sides of the tractor stable and well balanced, widen the wheel track within the wheel-free range.

1. Preparation before adjustment

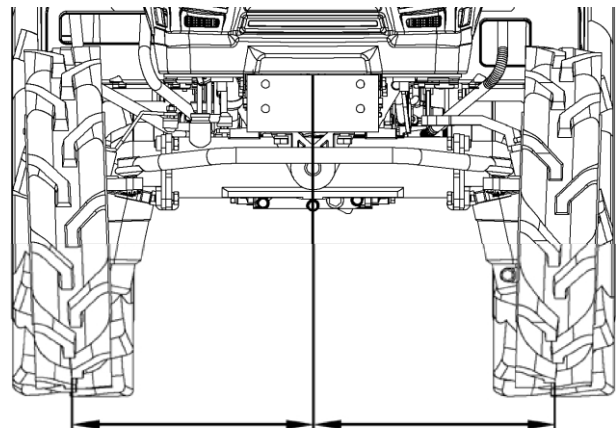
- 1) Park the tractor on a level surface.
- 2) If a working machine is installed, remove it.
- 3) Prepare a jack to lift the body and wheel stops. block the tyres.

2. Method of adjusting the front wheel track



Attention

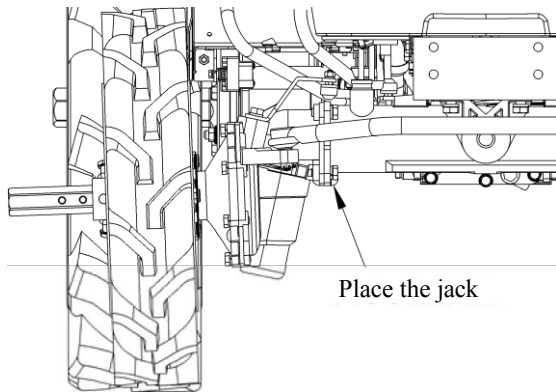
- The left and right front wheel tyres must be symmetrical with respect to the centre of the bodywork. Failure to do so affects steering control and can be dangerous.



Tyres on both sides are symmetrical to the centre of the bodywork.

Tyres and weight

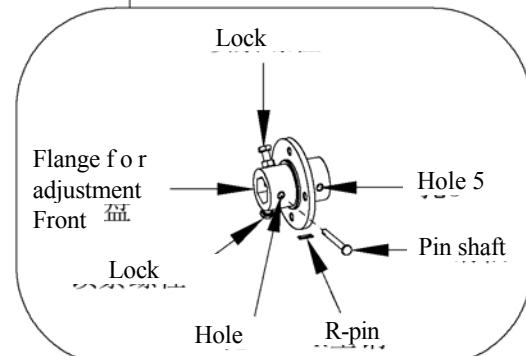
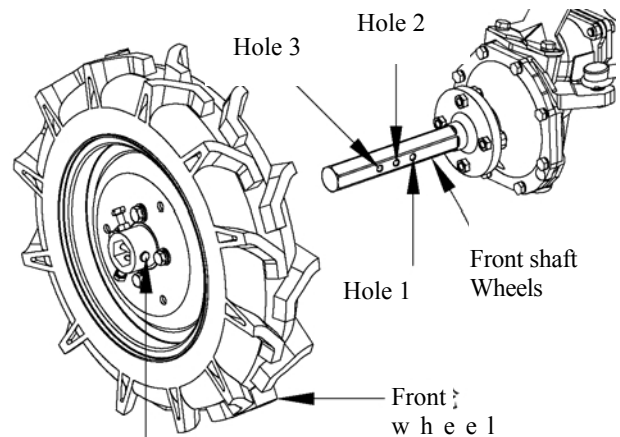
- 1) Switch off the engine and apply the parking brake.
- 2) To avoid danger, place stops in front of the wheels. and behind the left and right rear wheels.
- 3) Place the jack under the flange on one side of the front axle housing and lift the front wheel on one side. until it is slightly off the ground.



- 4) Pull out the pin shaft on the front wheel alignment flange (pull out the R-shaped pin). Loosen the 2 locking bolts and push/pull the tire into the desired mounting hole in the wheel track. There are 3 pin holes on the front wheel countershaft and 2 pin holes on the front wheel alignment flange, which can be used in combination to adjust the wheel track in 5 steps.
- 5) After setting the wheel track in place, insert the pin shaft into the front wheel alignment flange, then insert an R-shaped pin into the pin shaft to secure it. Pre-tighten both locking bolts and lower the jack to ground the tire.
- 6) Adjust the wheel track of the opposite front wheel in the same way.
- 7) After grounding the left and right front wheels, make sure all 4 locking bolts are tightened. Tightening torque: 120 ~ 140 N.m

Front wheel track adjustment

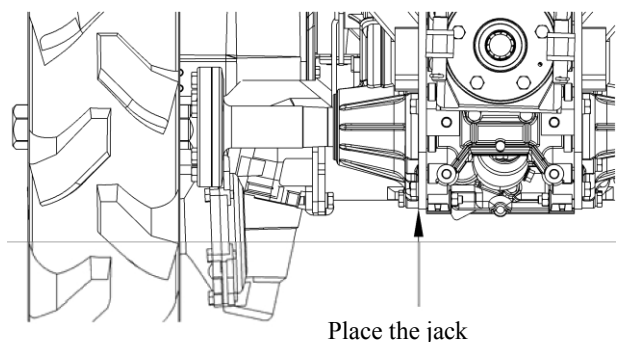
Unit: mm		Front wheel counterweight		
		Hole 1	Hole 2	Hole 3
Front wheel adjustment Flange	Hole 4	960	1020	1080
	Hole 5	1080	1140	1200



3. Method of adjusting the rear wheel track

Important

- Like the front wheels, the rear tyres must be positioned symmetrically around the centre of the body.
- 1) Switch off the engine and apply the parking brake.
 - 2) To avoid danger, place wheel stops in front of the wheels. and behind the left and right front wheels.
 - 3) Place the jack under the joint between the rear axle gearbox and the rear axle housing on one side, and lift the rear wheel on one side until it is slightly off the ground.

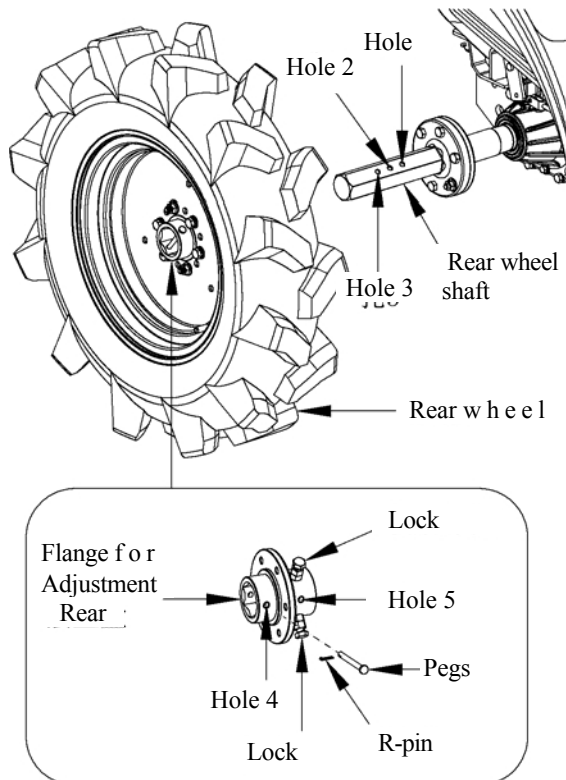


Tyres and weight

- 4) Pull out the **pin shaft on the rear wheel alignment flange** (pull out the **R-shaped pin**) **on the pin shaft**). Loosen the 2 **locking bolts** and **push/pull the tire** into the desired mounting hole in the wheel track. There are 3 pin holes on the **rear wheel counter shaft** and 2 pin holes **on the rear wheel alignment flange**, which can be used in combination to adjust the wheel track in 5 steps.

Rear wheel track adjustment

Unit: mm		Rear wheel shaft		
		Hole 1	Hole 2	Hole 3
Rear wheel adjustment	Hole 4	960	1020	1080
Flange	Hole 5	1080	1140	1200



make sure that all 4 **locking bolts** are tightened. Tightening torque: 120 ~ 140 N.m

Important

- Before starting operation, be sure to check that the **locking bolts on the front and rear wheels are not loose**.

- 5) After setting the wheel track in place, insert the **pin shaft into the rear wheel alignment flange**, then insert an **R-shaped pin into the pin shaft** to lock it in place. Pre-tighten both **locking bolts** and lower the jack to ground the tire.
- 6) Adjust the wheel track of the opposite rear wheel in the same way.
- 7) When the left and right rear wheels are grounded,

Tyres and weight

Weight



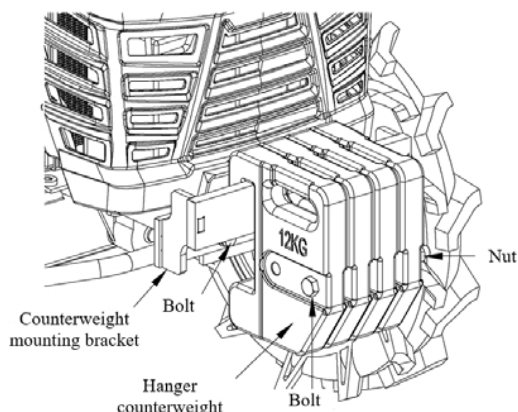
Attention

- When installing the work machine on the rear of the tractor, install the counterweights so that the load on the steering wheel (front wheel) equals or exceeds 20% of the total weight.
- Do not use a work machine that does not ensure that the steering wheel (front wheel) is loaded to more than 20% of the total weight, even if the tractor is equipped with maximum counterbalance. If the front end is too light, this causes handling difficulties or tipping accidents. When using working machine when using a front-mounted machine,
- install another work machine or suitable counterweight on the rear of the tractor to improve stability.

Counterweights can be installed in the following three ways. For the number of weights required, refer to the operating manual of the desired work machine or consult your dealer.

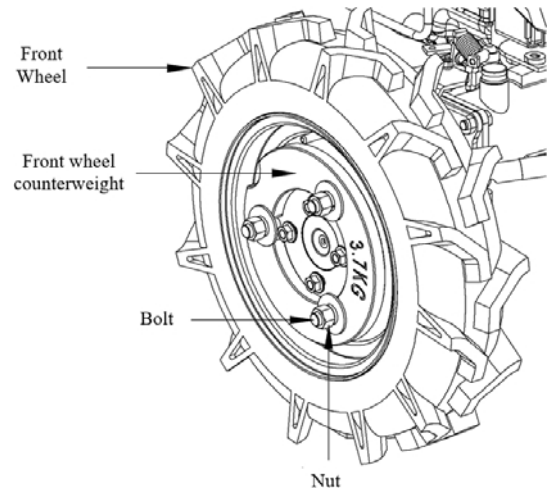
1. Hanging counterweight (standard)

- Attach the **counterweight mounting bracket** to the main frame with **bolts** and **nuts**.
- Attach the **hanging counterweight** to the **counterweight mounting bracket** and secure all counterweights with **bolts** and **nuts**. The weight of each counterweight is 12 kg and a maximum of 7 can be installed.



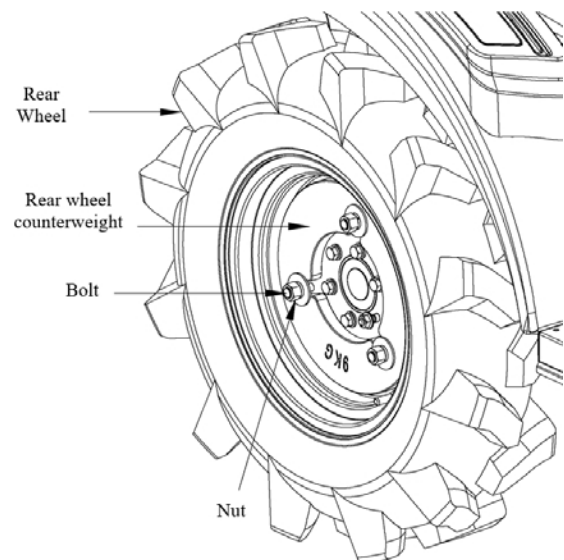
2. Front wheel counterweight

- Attach the **front wheel counterweight** to the **front wheel hub** using the **bolts** and **nuts**. The weight of each counterweight is 3.7 kg and one piece can be fitted to both left and right **front** wheels, it is not factory installed and can be purchased from the dealer if required.



3. Rear wheel counterweights

- Attach the **rear wheel counterweights** to the **rear wheel hub** using the **bolts** and **nuts**. The weight of each counterweight is 9 kg and one piece can be mounted on the left and right **rear** wheel. It is not factory installed and can be purchased from the dealer if required.



Easy tractor servicing and maintenance

Preparation before servicing and maintenance

1. Do not operate the tractor beside the road and drive it to a level and open place.
2. Depress the clutch pedal and the parking brake pedal and lower the machine to the ground using the hydraulic brake.
3. Place the gear lever in neutral, pull back the parking handle and set it to [ON], then remove your foot from the clutch and brake pedals.
4. Switch off the engine.
5. Remove the key and make sure it is secure before starting operation. Failure to do so may result in injury.

Waste disposal



Warning

If waste is arbitrarily discarded or burned, it will cause environmental pollution and will be punished according to the law. Dispose of the waste as follows:

When waste liquid is discharged from the tractor, please collect in a container. Do not pour the waste liquid on the ground, into rivers, lakes and oceans.

When disposing of or disposing of waste oil, fuel, cooling water (antifreeze), refrigerant, solvent, filter, battery, rubber and other harmful substances, contact your dealer or industrial waste disposal company and dispose of them according to the relevant regulations.

Safety precautions for washing the tractor

Use a high-pressure cleaning gun to clean the tractor, but improper use of a high-pressure cleaning gun may result in injury, damage or failure of the tractor. Therefore, follow the instructions and labels of the pressure washer for proper use.



Attention

To avoid damaging the machine, set the nozzle of the high pressure cleaning gun to the spray mode and place it within 2 metres when washing the tractor. If the tractor is washed in the scatter mode or in close proximity to the high pressure cleaning gun, the following hazards may result:

Fire may result from damage or

- damage or breakage of the electrical conductor sheath.

Hydraulic oil under high pressure may spurt and cause injury due to damage to the hydraulic hose.

- Breakage, damage, or malfunction can result in the following situations:

Stickers and labels peel off;

Electronic component pages are soaked, causing the electrical system to malfunction;

- 1) malfunction;
- 2) Rubber parts such as tires and oil seals are damaged; Paint and electroplated films peel off parts and components.

3)

Do not wash the tractor in sharpening mode

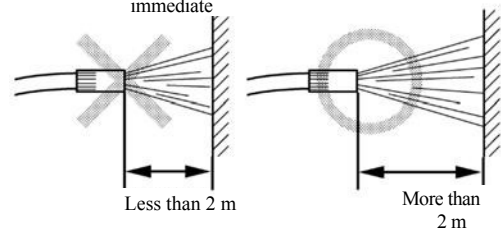
4)



Sharpening mode

Diffusion mode

Do not wash the tractor from the immediate



Less than 2 m

More than 2 m

Easy tractor servicing and maintenance

Parts list for regular inspection

Important

★ Indicates that this item must be performed after 50 hours of break-in.

SN	Item		Task	Length of operation (unit: hour)												Reference page	
				50	100	150	200	250	300	350	400	450	500	550	600		Later
1	Engine oil	Annual running time more than 100 hours	Replace site	★	√		√		√		√		√		√	Every 100	56
		Annual service time up to 100 hours	Replace pages	★												Every year	56
2	Oil filter		Replace pages	★			√				√				√	Every 200	59
3	Hydraulic oil filter		Replace pages	★			√				√				√	Every 200	60
4	Hydraulic oil in gearbox		Replace pages	★					√						√	Every 300	61
5	Front axle housing gear oil		Replace pages						√						√	Every 300	62
6	Lubricant		Supplement	√	√	√	√	√	√	√	√	√	√	√	√	Every 50	54
7	System Engine starting system		See site .	√	√	√	√	√	√	√	√	√	√	√	√	Every 50	54
8	High-speed switching device for two-speed rotation		See see site .	√	√	√	√	√	√	√	√	√	√	√	√	Every 50	54
9	Bolts and nuts for fixing tyres		See see site .	√	√	√	√	√	√	√	√	√	√	√	√	Every 50	55
10	Clutch housing		Water drainage	√	√	√	√	√	√	√	√	√	√	√	√	Every 50	55
11	Fuel hose and mounting strap		See site .	√	√	√	√	√	√	√	√	√	√	√	√	Every 50	55
			Replace pages													Every 2 years	64
12	Air cleaner element		Overview		√		√		√		√		√		√	Every 100	57
			Replace pages													Every year or clean 6 times	63
13	Batteries		See		√		√		√		√		√		√	Every 100	57

Easy tractor servicing and maintenance

		pages .														
14	Fan belt	Regulate		√		√		√		√		√		√	Every 100	58
15	Clutch pedal	Regulate	★	√		√		√		√		√		√	Every 100	58

Easy tractor servicing and maintenance

SN	Item	Task	Duration of operation (unit: hour)													Reference page
			50	100	150	200	250	300	350	400	450	500	550	600	Later	
16	Left and right brake pedal	Regulate		√		√		√		√		√		√	Every 100	58
17	Fuel injection pipe	See site .				√				√				√	Every 200	-
18	Radiator hose and fixing strap	See pages .				√				√				√	Every 200	60
		Replace pages													Every 2 years	64
19	Air intake hose and fixing strap	See see pages .				√				√				√	Every 200	60
		Replace pages													Every 2 years	64
20	Steering rod	See Check out the site .				√				√				√	Every 200	61
21	Fuel filter insert	Replace pages								√					Every 400	62
22	Engine valve clearances	Regulate													Every 800	63
23	Injector opening pressure	See site .													Every 1500	-
24	Cooling water	Replace pages													Every 2 years	63
25	Cooler	Rinsing													Every 2 years	64
26	Venting fuel system	-													As required	65
27	Fuse	Replace pages													As required	65
28	Luminaires	Replace pages													As required	65

Easy tractor servicing and maintenance

Fuel/oil and water filling schedule

Location	Capacity (L)		Fuel/oil and water
	TA254-6A/TA254-9A		
Fuel tank	13.5		Diesel
Radiator	4.6		Clean water (if antifreeze is added, reduce the appropriate amount of clean water).
Auxiliary water tank	0.6		
Engine	2.6	3.8	Oil (recommended 10W-30)
Transmission	11.5		Gear oil
Front axle housing gear oil	3.0		
Clutch pedal	Small amount		Lithium-based lubricant
Left and right brake pedal			
Brake pedal shaft			
Ball joint	Squeegee		

Easy tractor servicing and maintenance

Opening and closing the bonnet and removing the side cover



Attention

- Do not open the bonnet cover when the engine is running.
- Half an hour after the engine has stopped, the shock absorbers do not touch the muffler. Otherwise you may scald yourself.

1. Opening and closing the bonnet

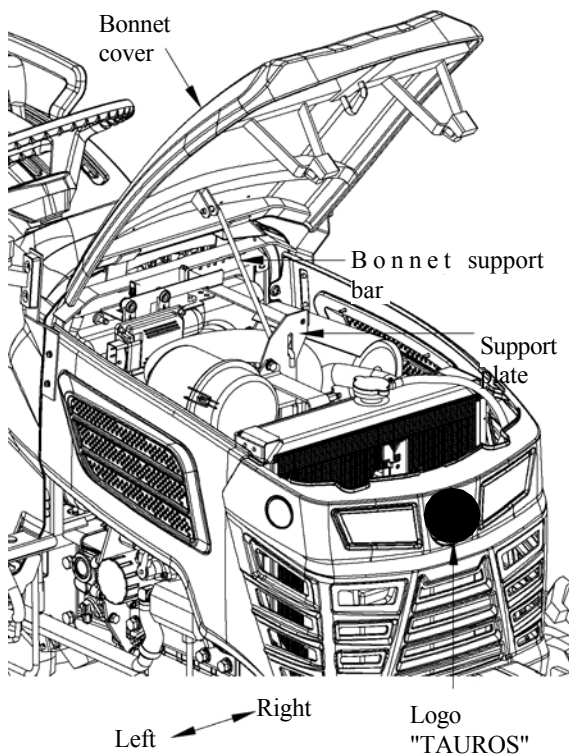


Attention

- When opening the hood for inspection and maintenance, be sure to check that the hood support rods are in place before starting work

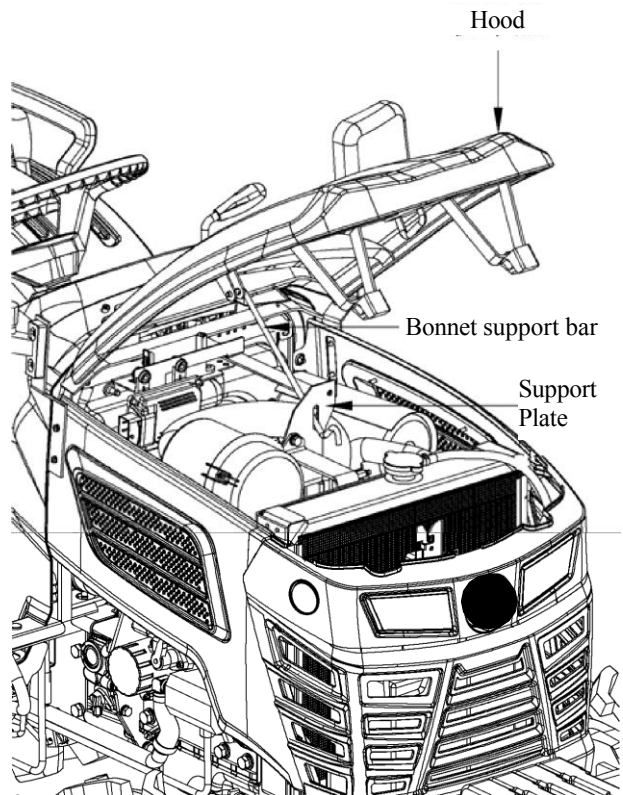
1) Method of opening the bonnet cover

- Lift the front end of the **bonnet cover** while pressing the left side of the "TAUROS" logo on the front grille.
- Lift the **bonnet cover** up until the hook end of the **bonnet support bar** fits into the groove of the **support plate**.



2) Method of closing the bonnet

- Hold the **bonnet cover** with your left hand and lift the **bonnet support bar** slightly with your right hand so that its hooked end passes through the slot in the bonnet cover. Unlock the **support plate**.
- Slowly remove the **cowling** and it will automatically lock after landing.
- Lift the front of the **bonnet** slightly and check that it is secure.



2. Removing and fitting the front grille and side cover



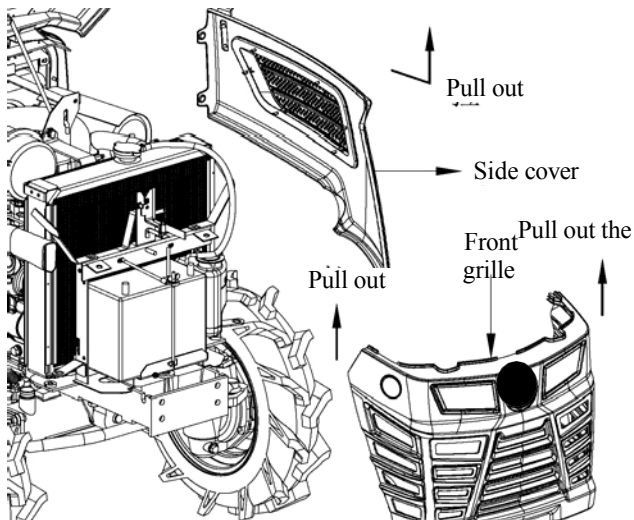
Attention

- Remove and assemble the front grille and side cover with the bonnet open.
- No tools are required to remove and install the front grille and side covers.

1) Method of removing the front grille and side cover

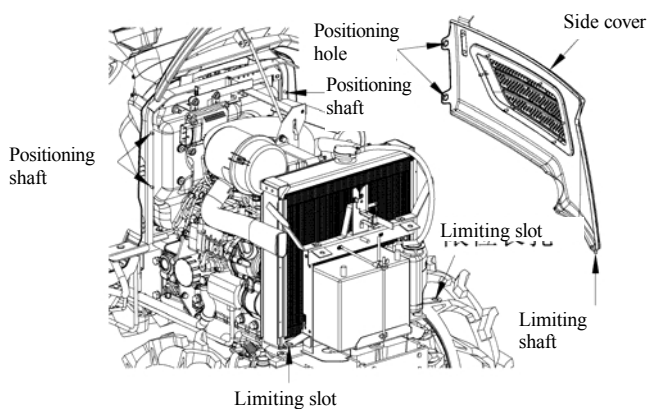
- Grasp both sides of the upper part of the front grille and gently pull it out.
- Pull the side cover up a little and then gently pull it up to remove it (same on both sides).

Easy tractor servicing and maintenance

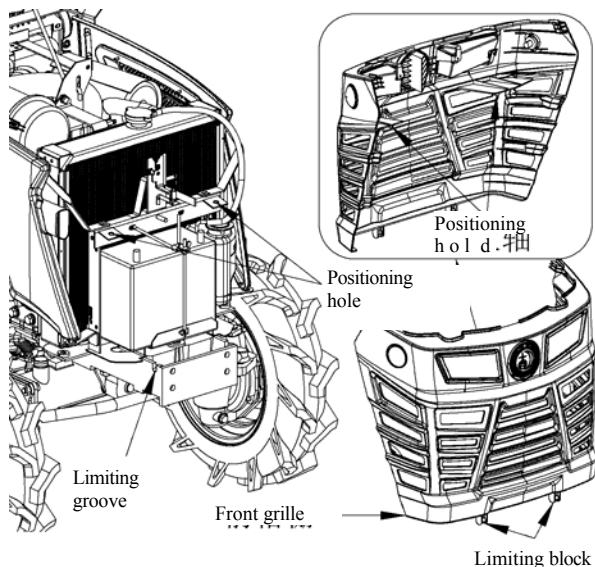


2) How to install the front grille and side cover

- After inserting the side cover limiting shaft into the limiting slot, a positioning hole (the same for both sides) is fitted on the positioning shaft.



- After the front grille positioning shaft is inserted into the positioning slot, the limiting block is inserted into the limiting slot.



Daily check



Attention

- It is strictly forbidden to use fire and smoke during inspection.
- Before inspection, lower the working machine to the ground and switch off the engine.
- If fuel and oil spillage occurs, wipe them up.
- Debris or fuel around the battery, wiring, muffler or engine can cause a fire, so keep the tractor clean.
- Do not open the radiator pressure cap when the engine is running or immediately after stopping it.
 V otherwise Otherwise hot water may spray out and cause scalding.
- When opening the protective cover around the engine for inspection and maintenance, please check that the interior is completely cool and there is no risk of scalding.

1. Abnormal part of the previous operation

If any abnormality has occurred during previous operation, please check for any malfunction before use.

2. Check the tractor

- Check that the bolts or nuts are tight.
- Check that the mounting pin of the working machine has not fallen out.
- Check each body part for obvious deformation or damage.
- Check for abnormal phenomena such as oil and water leaks.

3. The amount of oil in the engine



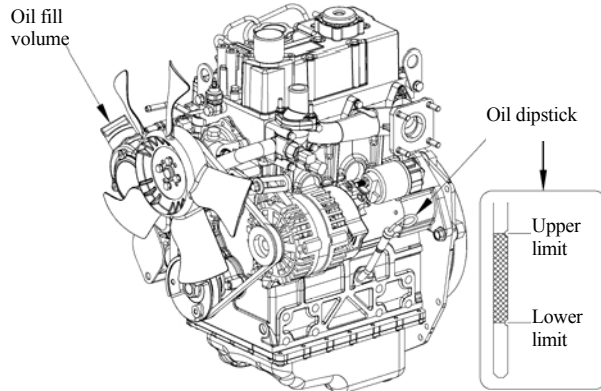
Attention

- Switch off the engine before checking.

- Pull out the oil dipstick, wipe the end of the dipstick, insert it and pull it out again. Check that the oil is [between the lower and upper limits].

Easy tractor servicing and maintenance

- 2) If the oil quantity is lower than **[lower limit]**, add oil. However, the oil quantity must not exceed **[upper limit]**.



Important

- Park the tractor in a horizontal position when checking, the correct amount of oil cannot be displayed when the tractor is tilted.
- Check the oil quantity before starting the engine, after starting or stopping the engine for more than 10 minutes. Otherwise, oil will remain in all parts of the engine and the actual amount of oil cannot be measured.

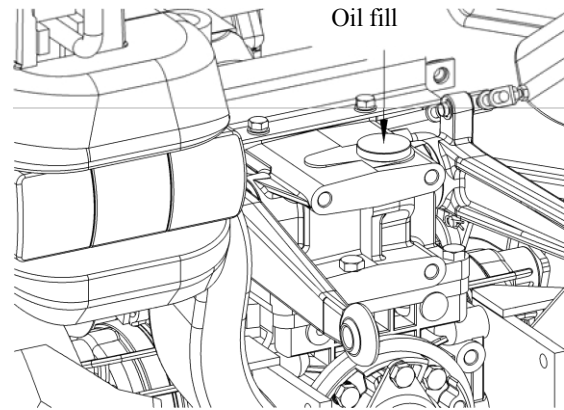
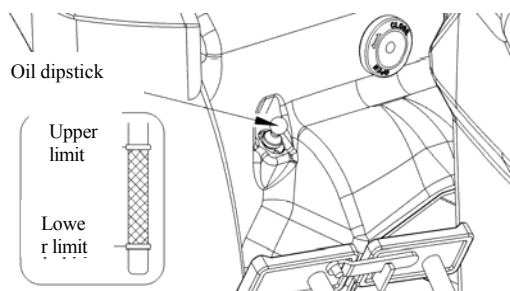
4. The amount of oil in the gearbox



Attention

- Turn off the engine before checking. If the working machine is installed, lower it to the ground.

- 1) Pull out the oil dipstick, wipe the end of the dipstick, insert it and pull it out again. Check that the hydraulic oil is **[between the lower and upper limits]**.
- 2) If the oil quantity is lower than **[lower limit]**, add hydraulic oil. However, the oil quantity must not exceed **[upper limit]**.



5. Cooling water volume



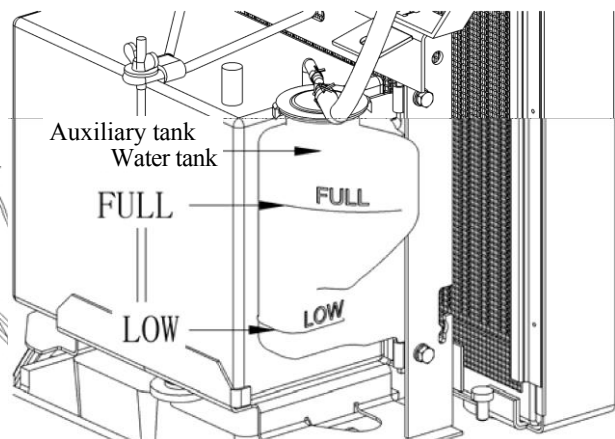
Attention

- If you open the radiator cap while the engine is running or immediately after stopping the engine, hot water may spray out and cause scalding. Stop the engine and wait at least 30 minutes for it to cool down, then turn the radiator cap slowly to release any residual pressure, then remove the cap.

The radiator is equipped with an additional water tank, and when the cooling water in the radiator is less, the additional water tank can automatically refill it.

It is normal for the cooling water volume in the auxiliary water tank to be between "FULL" and "LOW". If the cooling water volume drops below the "LOW" value, refill to the "FULL" level, but not above the "FULL" value.

Note: Do not open the radiator cap, only to check and change the cooling water.



Easy tractor servicing and maintenance

6. Check and replace the wiring harness and battery cable



Attention

- Loose cable clamps and connectors or damaged wiring will damage the performance of electrical components and lead to short circuits or leaks and even fire, which is very dangerous. Replace or repair damaged wires as soon as possible. If the fuse is damaged, do not replace it.
- iron wire, but replace it with the same type of fuse. If the replacement fuse is about to blow, have it inspected and repaired by professional maintenance personnel. The wiring of this machine has been fully in the design of waterproofing and other factors, so please do not change the wiring arrangement at will.
- Straw, garbage and fuel around the batteries and electrical wiring may cause fire, so please clean up the area around the batteries and electrical wiring every day before operation.

- 1) If the wire sheath is broken, check for damage.
- 2) If the harness comes off the buckle, put it back on the designated buckle.
- 3) Check for loose clamp connections and connectors are loose.
- 4) Check that all switches and devices are working operate normally and reliably.

7. Check for water and deposits in the fuel filter

Water and debris from the fuel are deposited in the fuel filter bowl. To check, turn the filter bowl counterclockwise to remove it, then clean the inside with diesel fuel. When cleaning is complete, turn the bowl back into the filter clockwise.

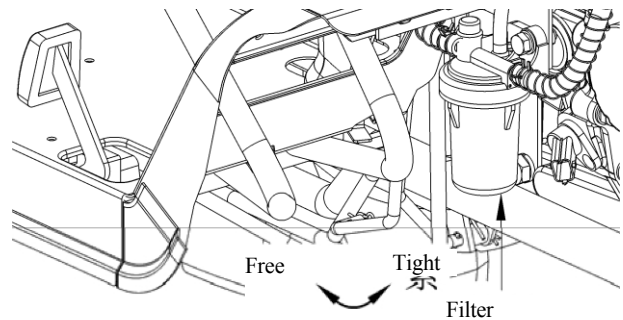
Important

- Take care not to get dust or dirt on the tyre during installation.

After removing the bowl for cleaning and re-tightening, be sure to bleed the air. Note: See the "Venting the Fuel System" section in the "Venting the Fuel System" chapter.

"Essential Inspection and Maintenance" for details on how to vent.

Note: Fuel leakage from the tank will stop automatically when the bowl is removed. However, if the tank is nearly full, fuel will flow from the return line back into the filter, so clean the fuel filter when the fuel is less than half full.



8. Tyre pressure, wear and damage

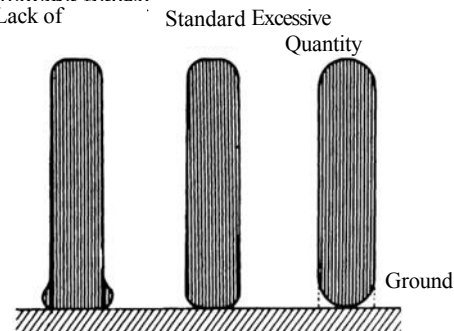


Warning

- Make sure that the tire pressure specified in the operating instructions is maintained. Over-inflation can lead to tire blowouts and cause injury.
- If the tire is scratched to the cord thread, do not use the tire as there is a risk of a blowout which may cause an accident.
- Ask professional maintenance personnel to repair and replace damaged tires, tubes, wheel hubs, etc.

1) Air pressure in the tyre

Check the correct air pressure in the front and rear wheels. The criteria for judging by appearance are shown in the following figure:



Easy tractor servicing and maintenance

2) Standard air pressure

	Specifications	Pressure Air (kPa)
Front wheel	5-12	150
Rear wheel	8-16	180

9. Cleaning the safety net

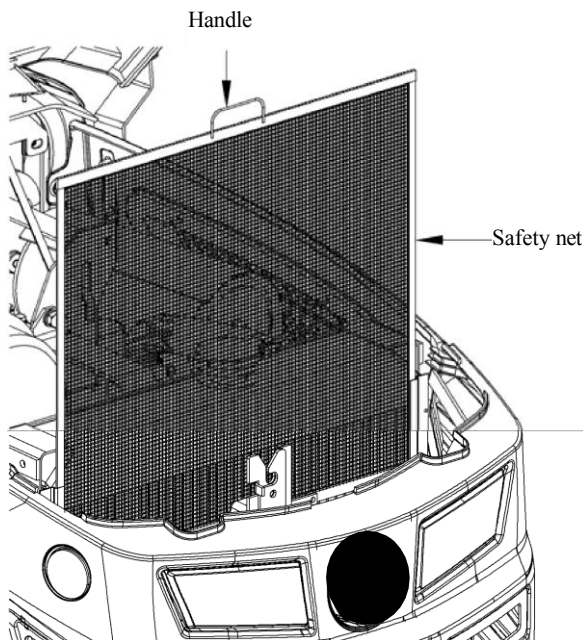


Attention



Be sure to stop the engine before cleaning.

When working in rice paddies or at night, the protective net may stick to weeds or insects and cause blockages. Clean it in time.



10. Check the clearance of the left and right brake pedals.



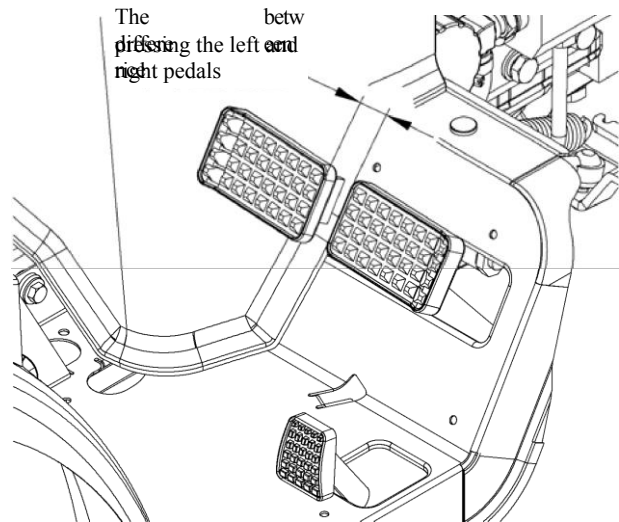
Warning



Personal injury may result if the brake system is not adjusted correctly. Therefore, always pay attention to the working condition.

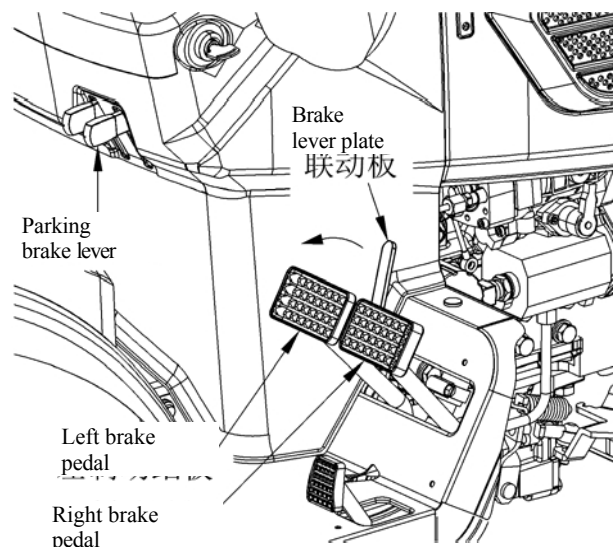
Depress the pedal, check that the clearance is within 30 ~ 40 mm, and check that the clearance is within 30 ~ 40 mm. The difference between the left and right brake pedal is within 5 mm.

For the method of adjusting the brake pedals, refer to "Checking and adjusting the brake pedals" in the section "Checking and maintaining every 100 hours".



11. Checking the operation of the parking brake

- Connect the **left and right brake pedals** to the **brake rod plate** and depress them. Pull the parking handle down to the [ON] position and release the foot to engage the parking brake.
- Depress the **brake pedal**, the **parking handle** will automatically return up and the parking brake will turn off.

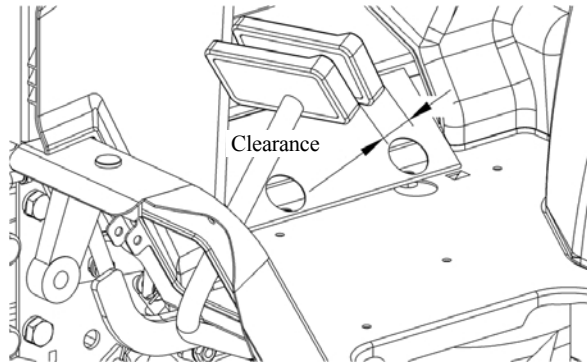


12. Check clutch pedal clearance

Lower the pedal and check that the clearance is within 15 ~ 25 mm.

Easy tractor servicing and maintenance

Refer to "Checking and adjusting the clutch pedal" in the "Checking and maintaining every 100 hours" section for the method of adjusting the clutch pedal.

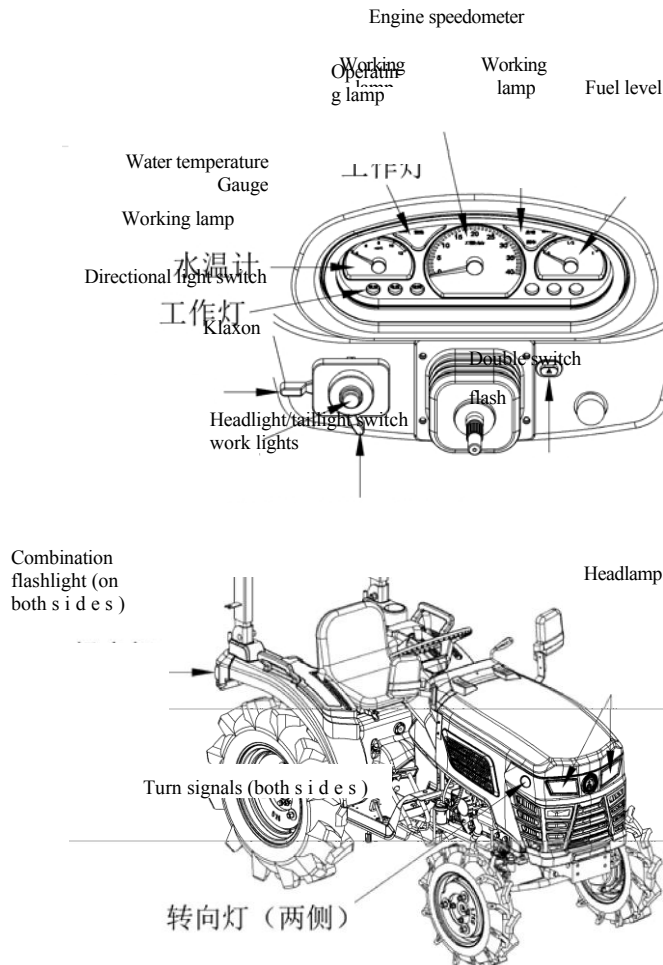


Important

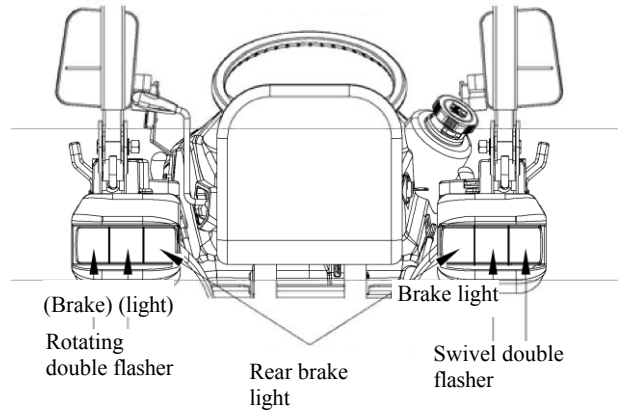
- If the clutch pedal is not properly adjusted, the clutch may slip because it cannot be disengaged, which can lead to damage to the clutch.

13. Checking instruments and indicators

Turn the key to the "Power" position and check the following instruments and indicators for proper operation.



Combination lamp functions



14. Refuelling



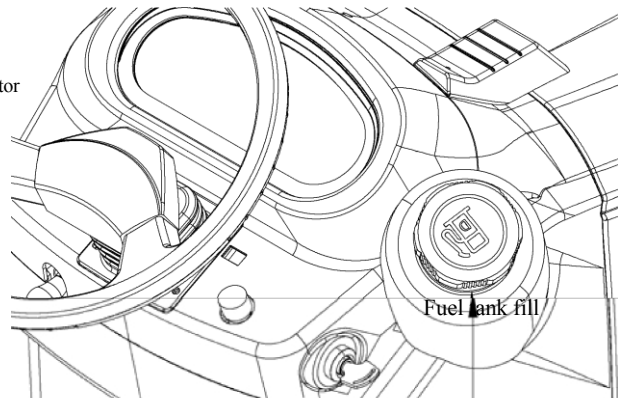
Attention

注意

Be sure to turn off the engine when refuelling.

- Fire and smoking are strictly prohibited.

If the temperature is too low, the fuel flowability is reduced and the engine becomes difficult to start.



Important

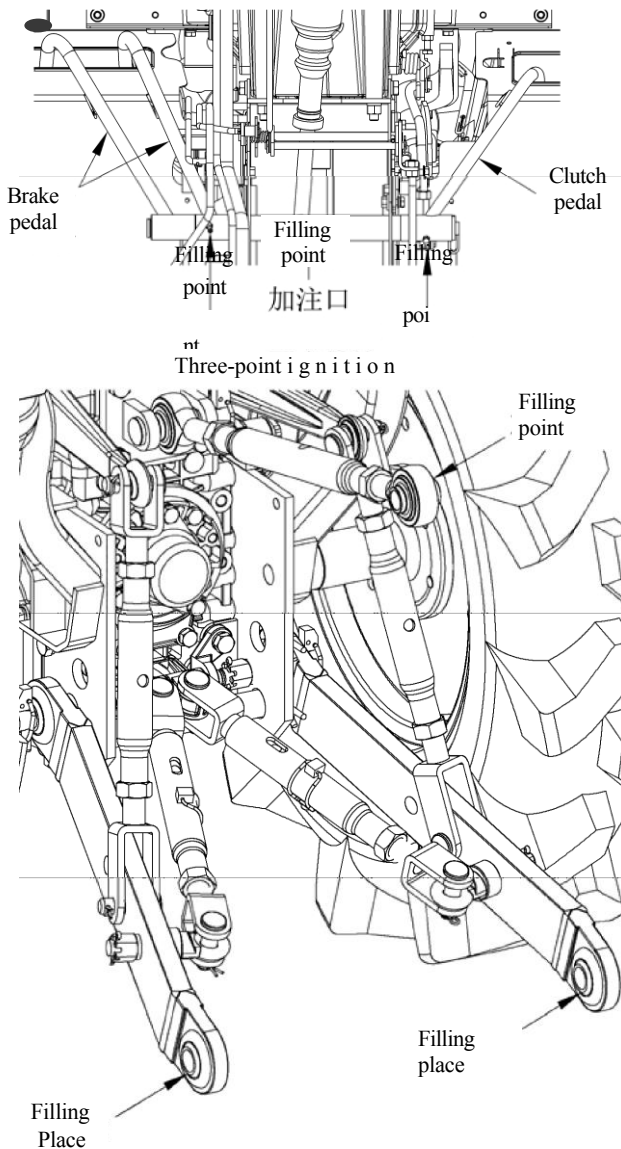
- If fuel is mixed with garbage or sand, it will cause the injection pump to malfunction. Do not remove the filter screen when refuelling.
- Check that the air hole on the fuel tank cap is not blocked by mud or rubbish.
- Check that the fuel filler cap is tightened.

Easy tractor servicing and maintenance

Inspection and maintenance every 50 hours

1. Top up lubricant

- Fill the following positions with grease:



2. Checking the engine starting system

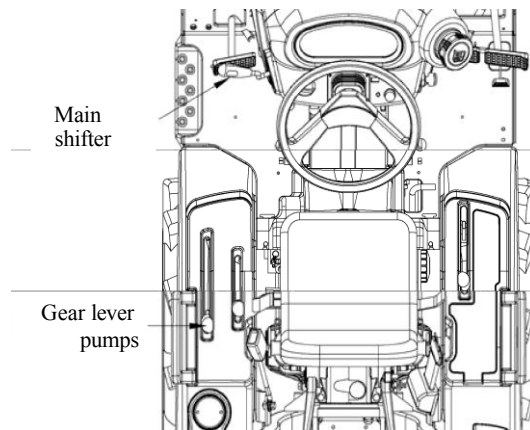


Attention

- Do not approach the tractor during the check.
- If the equipment is abnormal, be sure to repair it before use.

Check procedure:

- 1) Sit in the driver's seat and place the **main gear lever** and the shift lever of the **shaft** to the **[Neutral] (N)** position.
- 2) Stop the engine and make sure the electronic throttle knob is turned counterclockwise to the **[Min]** position.
- 3) Momentarily turn the key to the **[Start]** position. At this point, it is normal if the engine is started.
- 4) Switch off the engine, move the **main gear lever** or the **PTO shifter** to a position other than **[Neutral]** and turn the key momentarily to position **[Start]**. At this point, it is normal that The engine cannot be started.
- 5) Consult your dealer for any problems.



3. Checking the high-speed switching device for two-speed rotation



Attention

- If the device is abnormal, consult your dealer for repair before use.

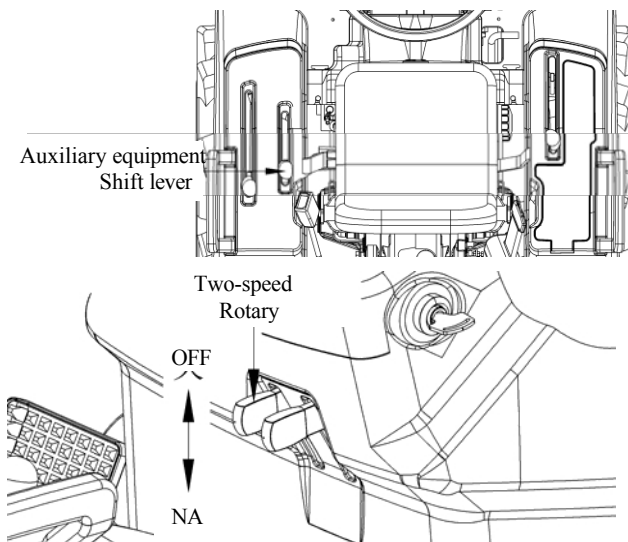
● Inspection procedure:

- 1) Sit in the driver's seat, set the front wheels in a straight line, and set the **shift lever of the auxiliary gears** to **[Low]** or **[Medium]**. Pull the **two-speed shift lever** to the **[ON]** position.
- 2) Move the **shift lever of the auxiliary gear lever** to **[High]**. At this time, the high speed shutdown device is working and it is normal for the two-speed cornering function to be **disabled** when turning.

Easy tractor servicing and maintenance

- 3) Set the front wheels to the straight direction of travel, switch **the auxiliary gear shift lever** to [Low], and the high speed disable device is automatically reset. In this state, turn and it is normal for the two-speed function to **resume**.
- 4) Reduce the engine speed in a level and quiet place to make the turn after confirming safety.

Note: The TA254-6A auxiliary shifter has two gears: [Low] and [High]. The TA254-9A auxiliary shifter has three gears: [Low], [Medium], and [High].



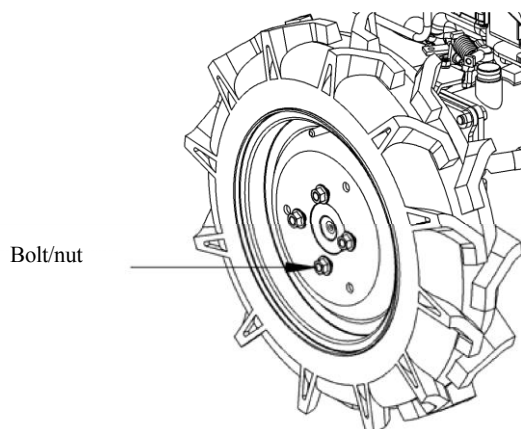
4. Check tyre fixing bolts and nuts



Attention



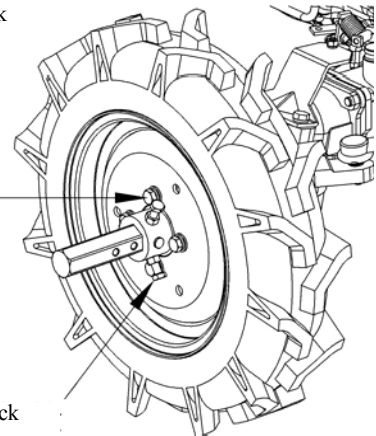
Do not drive the tractor with loose attachments bolts loose or nuts of the tyres. Driving with loose fasteners can cause



Adjustable wheel track

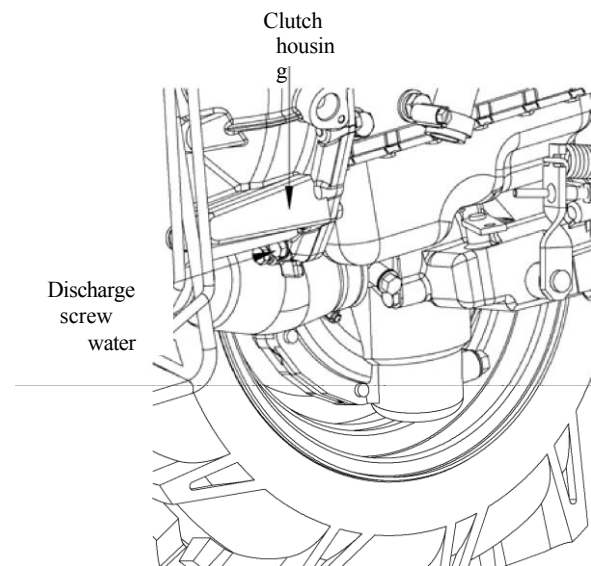
Screw/nut

Lock



5. Water drain from clutch housing

When working in the rice field, washing the tractor, rain, etc., a large amount of water is sprayed onto the clutch housing. Therefore, it is necessary to remove the drain screw at the bottom of the clutch housing after every 50 hours of operation and check for water ingress into the clutch housing. If water does enter the housing, allow the water to drain completely through the drain screw hole and keep the inside of the housing reasonably dry.



6. Checking the fuel hose



Attention



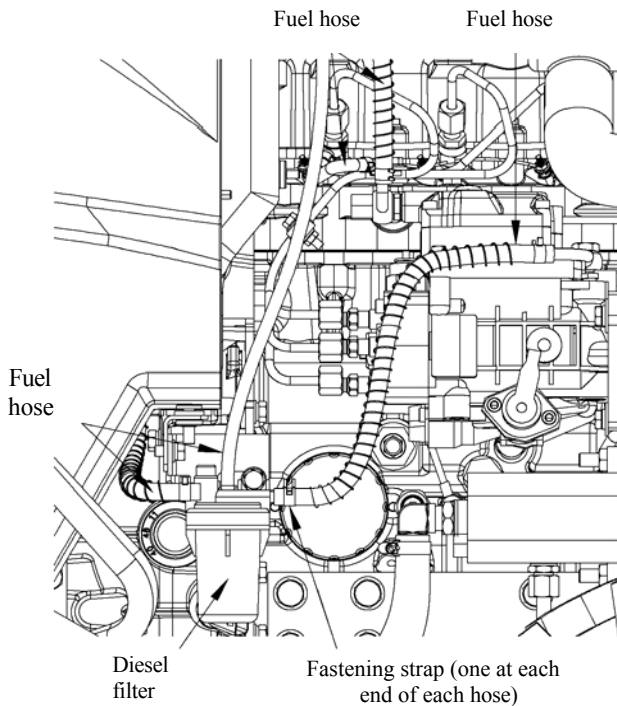
Be sure to check the hose for breaks and loose fasteners. In case of any problem, replace or repair the hose in time. Failure to do so will result in fuel leaks, fire and accidents with injury.

Easy tractor servicing and maintenance

Rubber products such as fuel hoses are consumables and deteriorate even when not in use. Replace them with new ones every 2 years or if damaged, together with the fixing strip.

- Check the fuel hose frequently damaged and whether the fastening strap is loose.
- When replacing the fuel hose, venting is required. See the section "Venting the fuel system" in the "Necessary changes" section.

Inspection and maintenance" for details on venting method.



Important

- When replacing the fuel hose, take care that no foreign matter gets into the hose and fuel pump. If foreign bodies get inside, they will cause the fuel pump to malfunction.

Inspection and maintenance every 100 hours

1. Engine oil change

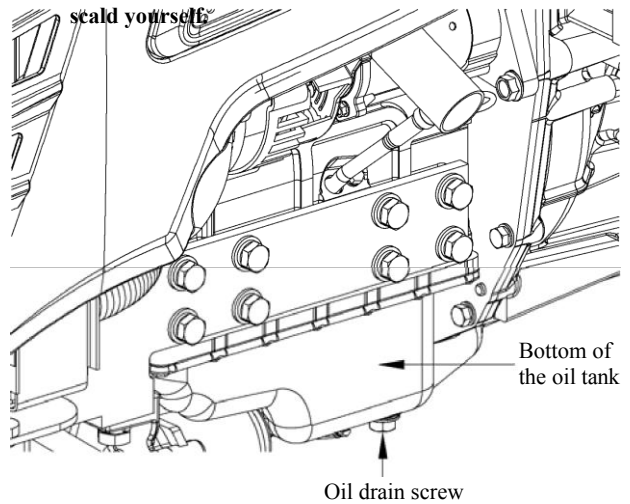


Attention

- When changing the oil, be sure to switch off the engine and allow it to cool sufficiently. Otherwise there is a risk of scalding.

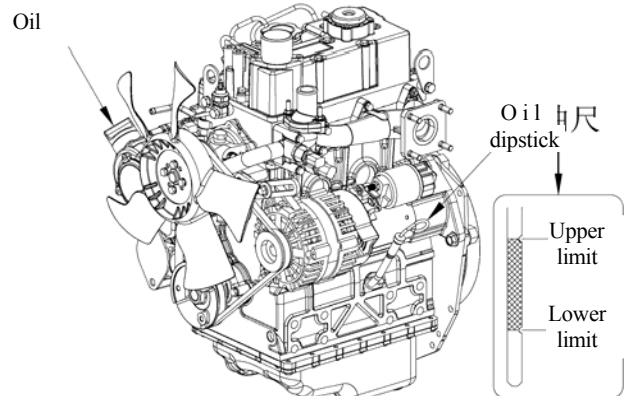
- 1) Unscrew the drain screw at the bottom of the oil tank with a spanner and drain the oil.

Note: Hot oil is easier to drain, but be careful not to scald yourself.



- 2) Top up the engine oil from the filler neck to the prescribed amount, taking care not to spill the oil.

Note: Remove dipstick for ease of refilling oil.



Easy tractor servicing and maintenance

Important

- When using engine oil from different manufacturers or engine oil with different viscosity, drain all original engine oil before replacing it with another. New. Please do not mix them together.
- 10W-30 oil is recommended.
Note: Always use 10W-30 oil in winter.
- When checking, place the tractor in a horizontal position. When tilted, the correct amount of oil cannot be displayed.
- Check the oil quantity before starting the engine or after stopping the engine for more than 10 minutes. Otherwise, the oil will remain in the all parts of the engine and the actual amount of oil cannot be measured.

2. Checking and maintaining the battery

1) Installing and removing the battery

- When removing the battery, first remove the battery pole wire (-) and then remove the battery pole wire (+).
- When installing, the pole wire (+) must be installed first. Otherwise, a short circuit will occur when the tool touches the (+) pole.
Note: Connect the battery poles (+) and (-) according to the original condition and tighten them so that they do not touch each other.
- Be sure to use the special battery (55B24L).
"SEYES" when replacing the new battery.

2) Charging method



Warning

- **Do not smoke or be near an open flame while charging the battery.**

- Do not carry out rapid charging as this may damage electrical components and wiring.
- When connecting the battery cable, make sure that the (+) and (-) terminals are connected correctly. Improper connections will damage the battery and electrical system will fail.

- When charging, the (+) pole of the battery is connected to the (+) pole of the charger, and the (-) pole of the battery is connected to the (-) pole of the charger. and use the normal charging method. Do not make mistakes when connecting the wires.

3. Cleaning the air cleaner element

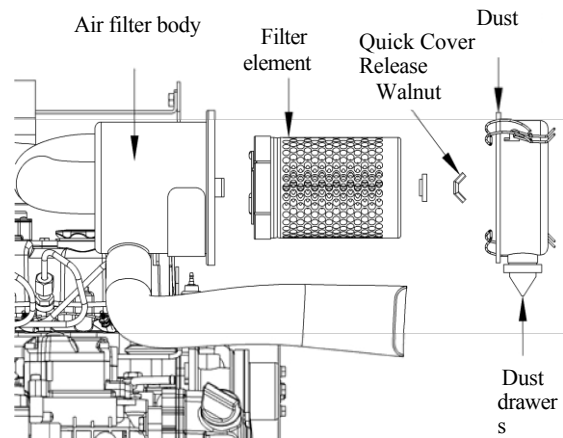
1) Cleaning the filter element

In case of dry dust, blow it off carefully with compressed air to avoid damaging the filter element.

Note: The air pressure must not exceed 205 kPa and there must be sufficient distance between the nozzle and the filter element.

2) Replacing the filter element

Replace the filter element every year of use or every 6 cleanings.



Important

- Do not open the dust cover or touch the filter element unless necessary, except for cleaning or replacement.
- Do not use diesel fuel to clean the filter element as it is a dry filter element.
- When cleaning, do not hammer the filter element to avoid deforming it. Deformation of the filter element will cause dust to enter the engine and cause the engine to become damaged. If the filter element is deformed, replace it immediately.
- Install the dust cover so that the dust outlet faces the dust outlet. Down.

3) Cleaning the dust outlet

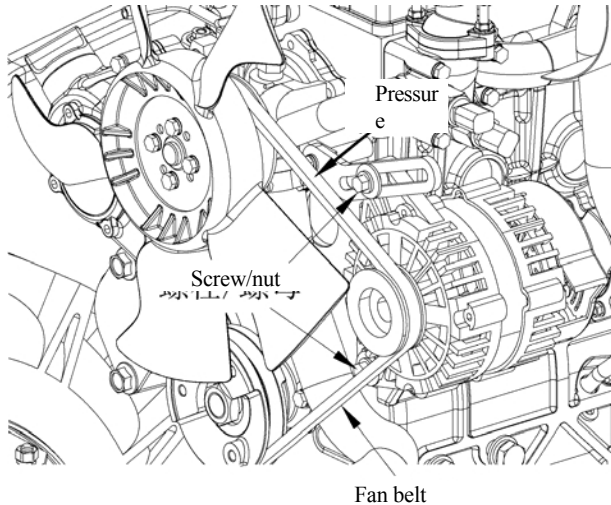
Easy tractor servicing and maintenance

Squeeze the rubber on the dust outlet to remove large pieces of dirt.

4. Check and adjust the fan belt

1) Inspection method

Press the center of the belt with your fingertips with a force of about 98 N to bend the belt by about 7 mm.



2) Adjustment method

- Loosen the bolts and nuts to install the generator and move the generator for adjustment.
- After adjustment, screw back the bolts and nuts and tighten them.

Important

- Insufficient belt tension will cause the engine to overheat and the generator to underperform.
- If the belt is cracked or peeled off, replace it with a new one.

5. Check and adjust the clutch pedal

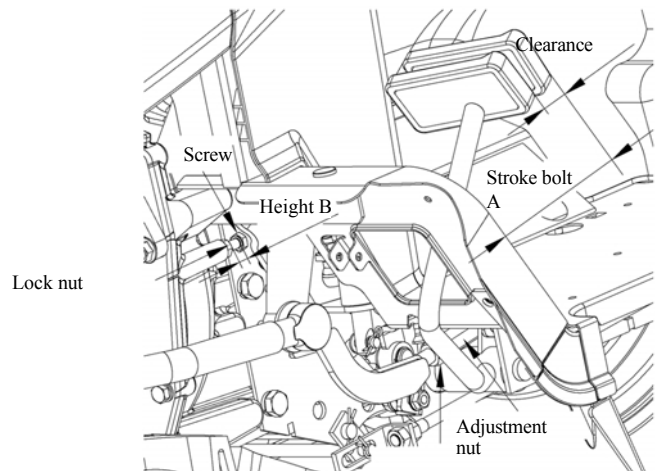
1) Pedal play

The correct clutch pedal clearance is 15 ~ 25 mm.

2) Adjustment method

- Loosen the **lock nut I** and turn the **adjustment nut** to adjust the pedal clearance.
- Check the **stroke [A]** when the pedal is depressed. Loosen **lock nut II** and adjust the height **[B]** of the **screw** so that the **stroke distance [A]** is 105 mm.

After adjustment, tighten the **lock nuts I and II**.



Important

- If the clutch pedal is not adjusted correctly, the clutch may slip because it cannot be disengaged, causing damage to the clutch.

6. Checking and adjusting the left and right brake pedals



Warning

- Shut off the engine before checking and adjusting.
- Personal injury may result if the brake system is not adjusted properly. Therefore, always pay attention to the working condition.
- When adjusting, make sure to control the difference between the left and right pedal travel within 5 mm. If the difference is too large, it causes one-way braking which can lead to tip-over accidents.

1) Pedal clearance

The correct brake pedal clearance is 30 ~ 40 mm.

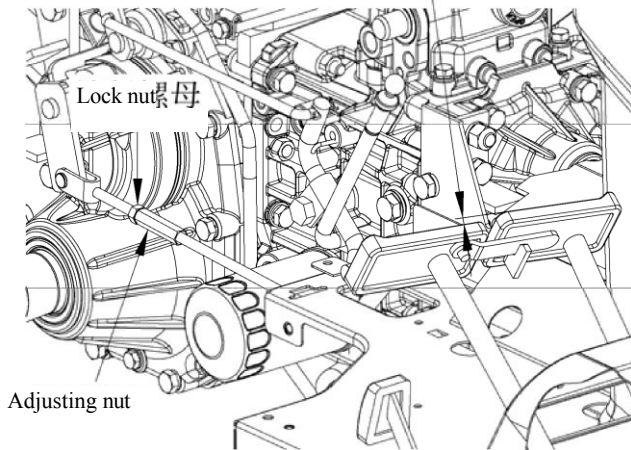
2) Adjustment method

- Release the parking brake.
- Loosen the **lock nut**, turn the **adjustment nut** and adjust the pedal clearance so that the difference between the left and right pedal travel is within 5 mm.

Easy tractor servicing and maintenance

- After adjustment, tighten the lock nut.
- Check that the parking brake is working correctly.

Difference between left and right pedal depression



Inspection and maintenance every 200 hours

1. Change engine oil filter



Attention

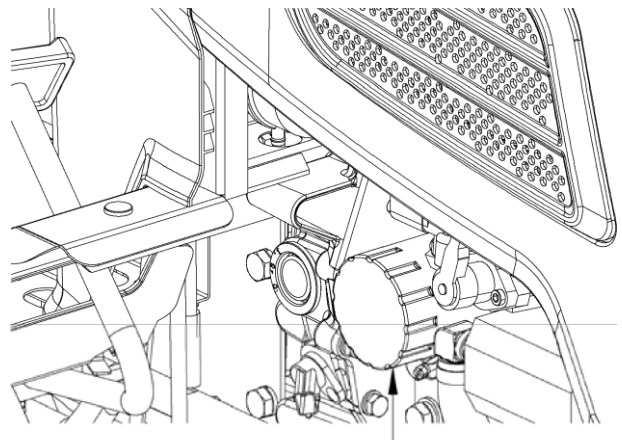
- When replacing, first switch off the engine and allow it to cool down sufficiently. Otherwise there is a risk of scalding.

● Replacement method:

- 1) Use a filter wrench to remove the oil filter.
- 2) Apply a thin layer of oil to the seal of the new filter, screw and hand tighten the new filter onto the engine.

Note: Do not use a filter wrench when tightening.

- 3) Top up the engine oil to the prescribed amount.
- 4) Start the engine and let it run for about 5 minutes.
After confirming that the oil light is on normally and that the engine is not leaking oil, shut off the engine.
- 5) After the engine has cooled down completely, check the oil quantity again using a dipstick.
oil gauge and continue adding oil if there is a shortage.



Oil filter for the engine

Note: The oil filter is a cartridge type. If the oil filter is clogged, the bypass valve is activated and the engine is lubricated with unfiltered oil. To prevent this, replace the oil filter with an original new one after the specified service period.

Easy tractor servicing and maintenance

2. Check the injection line

Check the **fuel injection line** for damage or leaks.

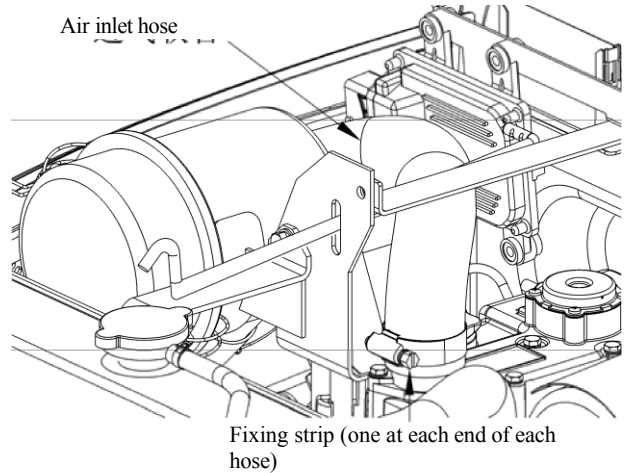
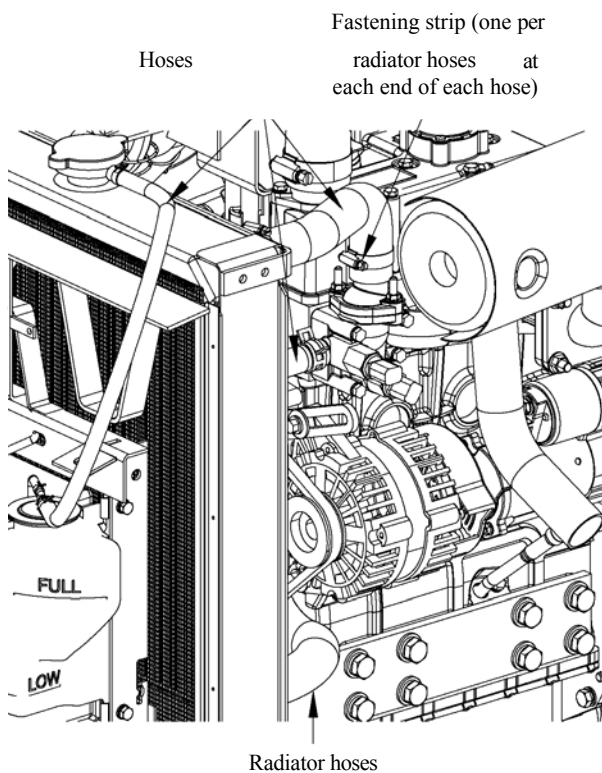
3. Check radiator hose



Attention

- Check the radiator hose for damage or loose fastening strap. If there is any abnormality, replace and repair the radiator hose. Otherwise, scalding may occur due to leakage

Rubber products such as radiator hoses are consumables and deteriorate even when not in use. Replace the hose with a new one every 2 years or if damaged, together with the fixing strip.



5. Replacing the hydraulic oil filter



Attention

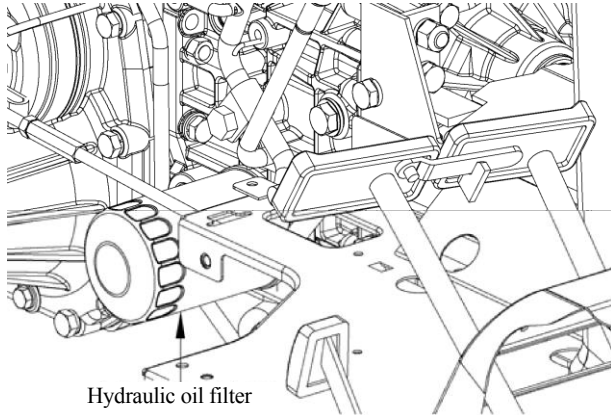
- When replacing, be sure to switch off the engine and allow it to cool sufficiently. Otherwise there is a risk of scalding.

● Replacement method:

- 1) Drain the hydraulic oil from the transmission.
- 2) Use a filter wrench to remove the hydraulic oil filter.
- 3) Apply a thin layer of hydraulic oil to the seal of the new filter, screw and tighten the new filter onto the filter.
transfer by hand.
Note: Do not use a filter wrench when tightening.
- 4) Top up the hydraulic oil in the transmission to the prescribed amount.
- 5) Start the engine and allow it to idle.
- 6) Slowly push and pull the hydraulic lift rod until the hydraulic oil enters the hydraulic circuit and the hydraulic mechanism operates normally.
- 7) After the working machine can be lifted and started normally, adjust the hydraulic jack to the **[Down]** position and lower the work machine to the ground.
- 8) In this condition, let the engine run for about 2 minutes, and then turn off the engine.
- 9) After shutting off the engine for approximately 10 minutes, check the oil level in the gearbox by oil dipstick again. If it is insufficient, refill it.

Easy tractor servicing and maintenance

Note: For details on draining and refilling the hydraulic oil in the transmission, see "Changing the Hydraulic Oil in the Transmission" in the "Inspection and Maintenance Every 300 Hours" section.



6. Checking the steering rod



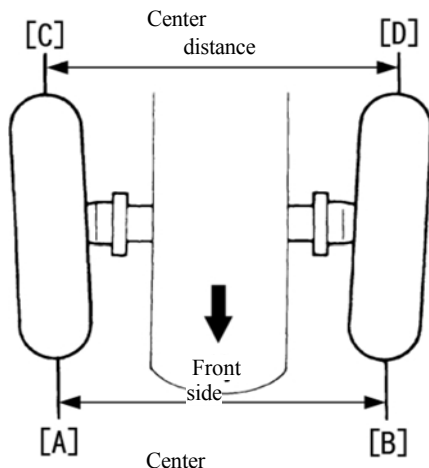
Caution

- If the steering rod is abnormal, the steering wheel will turn or wobble abnormally.

Control method:

Measure the axial distance AB of the front wheel and the axial distance CD of the rear wheel.

Check that CD-AB is 0 ~ 20 mm. If this range is exceeds this range, it means that a correction must be made. Contact your dealer.



Note: Check the steering rod end (ball joint) and tie rod for wear or deformation. Check the steering tie rod to front wheel connection under standard tire pressure.

Check and maintain every 300 hours

1. Changing the hydraulic oil in the gearbox



Attention

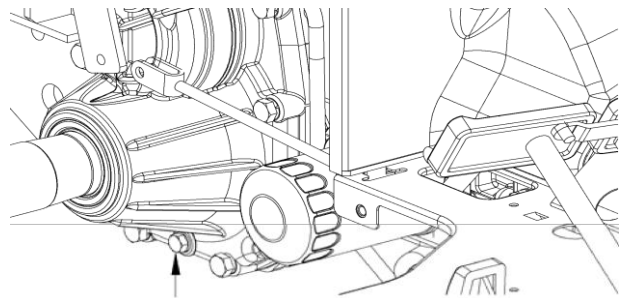
- When changing, first switch off the engine and allow it to cool sufficiently. Otherwise there is a risk of scalding.

Replacement method:

- 1) Pull out the oil plug at the oil filler of the jack a. Drain the hydraulic oil using the wrench from the the drain screw.

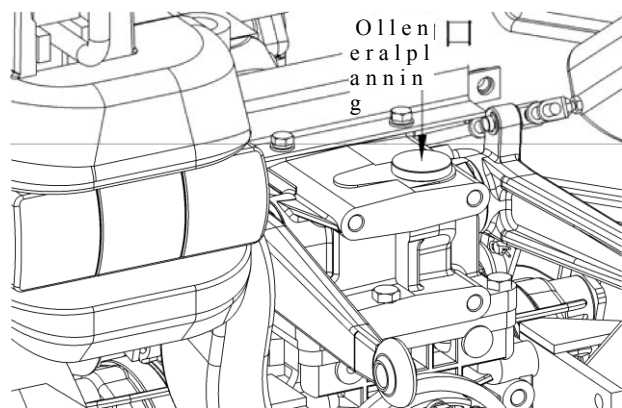
Note: In the event of a sudden use of

the oil drain screw, hydraulic oil may suddenly flow out and splash onto the tire.



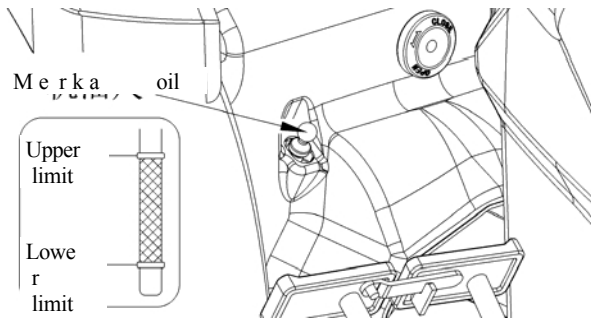
Oil drain screw (one on each side)

- 2) After draining the waste oil, screw back the drain screw and tighten it with a wrench.
- 3) Add the specified amount of hydraulic oil. through the oil fill of the hoist and then install the oil plug back into the oil fill.



Easy tractor servicing and maintenance

- 4) Start the engine and let it run for about 5 minutes, check for oil leaks around the drain hole.
screw and stop the engine.
- 5) Pull out the oil dipstick, wipe its tip, insert it and pull it out again to check the oil level. If the insufficient, continue to top up. **Note: If the work machine is installed, run it to the ground before confirming.**

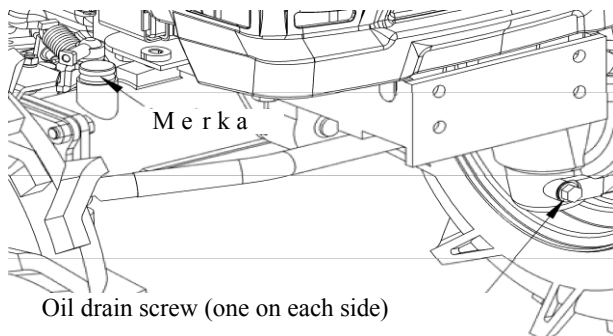


2. Front axle housing gear oil change

● Replacement method:

- 1) Pull out the oil dipstick at the front oil fill hole.
At the axle housing, unscrew the oil drain screw with a wrench to drain the gear oil.

Note: Pulling the dipstick out makes it easier to drain the gear oil.



- 2) After draining the waste oil, screw back the drain screw and tighten it with a wrench.
- 3) Add the specified amount of gear oil
via
front axle housing oil filler.
- 4) After filling the gear oil for about 10 minutes, insert the dipstick and check the oil level. If the oil level is insufficient, top it up.

Inspection and maintenance every 400 hours

1. Cleaning the fuel filter and replacing the filter cartridge

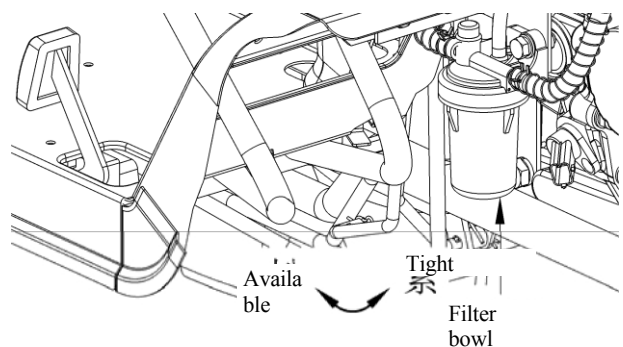


Attention

- If you remove the filter bowl when the fuel tank is nearly full, fuel will backflow from the return line into the filter. Therefore, cleaning the fuel filter and replacing the filter cartridge must be done when the fuel level in the tank is less than half full.
- When the filter bowl is removed, the valve on the filter cover should be checked to ensure it closes and the overflow of fuel from the fuel tank is automatically stopped.

● Replacement method:

- 1) Turn the filter bowl counterclockwise by hand until the filter bowl is removed.
- 2) Remove the old filter element and clean the inside of the filter bowl with diesel fuel.
- 3) After inserting the new filter element into the bowl, screw and tighten the bowl back into the filter by hand.



Important

- Take care not to allow dust or dirt to get on the gearbox during installation.
- After removing the bowl for cleaning and re-tightening, be sure to bleed the air. Note: See the "Venting the Fuel System" section in the "Venting the Fuel System" chapter.

Easy tractor servicing and maintenance

Inspection and maintenance every 800 hours

1. Check and maintain engine valve lash

Have the valve valve replaced and checked by your dealer or a designated after-sales service center.

Inspection and maintenance every 1 year

1. Replacement of air cleaner element

Replace the filter element every year of use or every 6 cleanings.

Note: See "Cleaning the air cleaner element" in the "Inspection and maintenance every 100 hours" section.

Inspection and maintenance every 2 years

1. Cooling water change

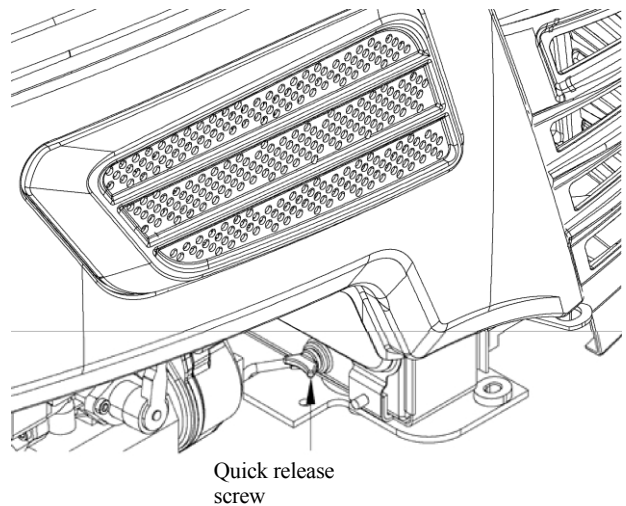


Attention

- If the radiator cap is opened while the engine is running or immediately after the engine is turned off, coolant may splash out and scalding may occur. Therefore, wait until the engine stops running for more than 30 minutes to cool down, then slowly turn the radiator cap to the first position to the stop position to release the residual pressure, and then continue turning to turn the cap

1) Replacement Method

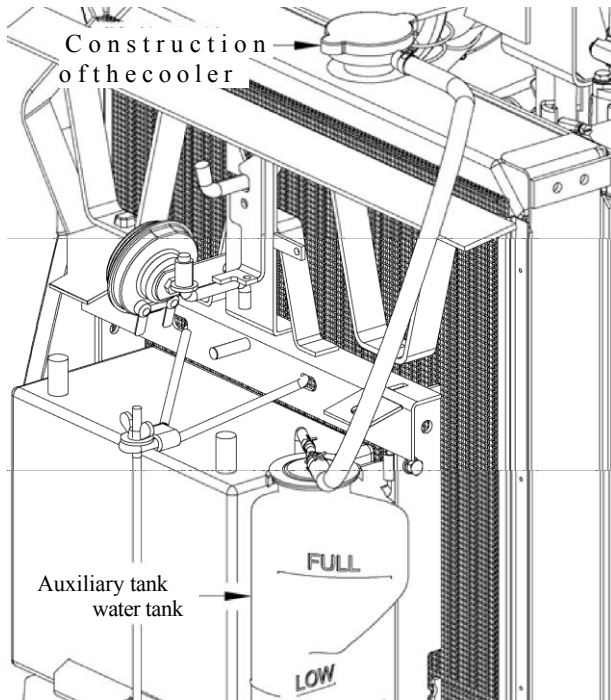
- Manually unscrew the **quick-release bolt** on the **radiator** near the engine and the **radiator cap** at the top to drain all coolant.
Remove the **auxiliary water reservoir** and drain the waste fluid from it.



- Flush the **radiator** with tap water. After flushing, screw the **quick-release screw** back onto the **radiator**, tighten it and install the **additional water valve**.
Return the **tank** to its original position.
- When sufficient coolant has been added to the **radiator** and **auxiliary water tank**, tighten the radiator cap and depress the auxiliary water tank cap.

Note: It is normal for the amount of cooling water in the auxiliary tank to be between "FULL" and "LOW".

Easy tractor servicing and maintenance



2) Method of application of antifreeze

Antifreeze can reduce the freezing temperature of water and prevent damage to the cylinder and radiator due to freezing of cooling water. If the air temperature drops below 0°C in winter, be sure to mix antifreeze with clean water to refill the cooler and additional water tank, or always use cooling water mixed with antifreeze.

Note: When the tractor leaves the factory, it contains cooling water mixed with antifreeze.

Important

- Add 50% antifreeze to the cooling water and mix thoroughly before use.
- If the antifreeze mixing ratio is incorrect, the cooling water may freeze in winter and overheat in summer.
- Do not add detergent to the radiator when using antifreeze. As the anti-corrosion agent is added to the antifreeze, it forms deposits. Mixing with detergent will adversely affect engine parts.
- The effective life of antifreeze is 2 years, and must be replaced after two years of use.

- The antifreeze temperature data is as follows:

Mixing ratio of the storage solution %	Guaranteed antifreeze temperature °C
10	-4
15	-5
20	-8
25	-11.5
30	-15
35	-20
40	-25
45	-30
50	-35
55	-40

2. Cleaning the radiator

Flush the radiator with tap water every 2 years of use or when antifreeze needs to be topped up.

Note: If a radiator cleaner is used for cleaning, dirt can be cleaned out.

3. Replacing the various rubber hoses

- Radiator hoses.
- Fuel hose.
- Air intake hose.
- Hydraulic hose. Have the hoses checked and replaced by your dealer or a designated aftermarket service center.

Note: Replace the rubber hose and its retaining strap.

Easy tractor servicing and maintenance

Necessary inspection and maintenance

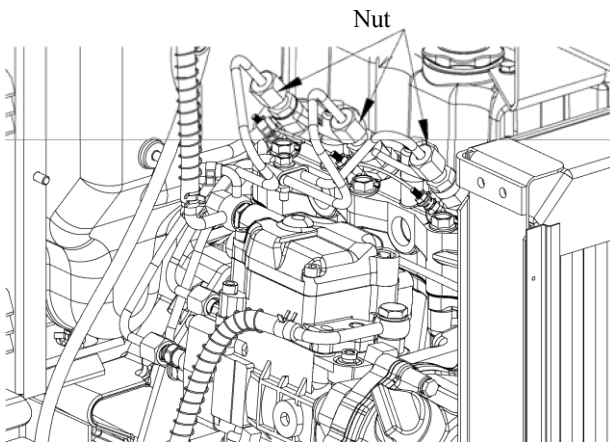
1. Fuel system venting

1) The fuel system must be vented in the following cases:

- The fuel filter and connecting hoses are removed and reinstalled.
- The fuel is drained and refilled.
- The tractor is stored for a long time and restarted.

2) Venting method

- Fill the fuel tank with fuel.
- Loosen **the lock nut** of the high-pressure oil line with a spanner.
- Start the engine and let it run for about 1 minute, then switch off the engine.
- Tighten the high pressure oil line **lock nut** with a spanner.
- Check for oil leaks near **the lock nut**.



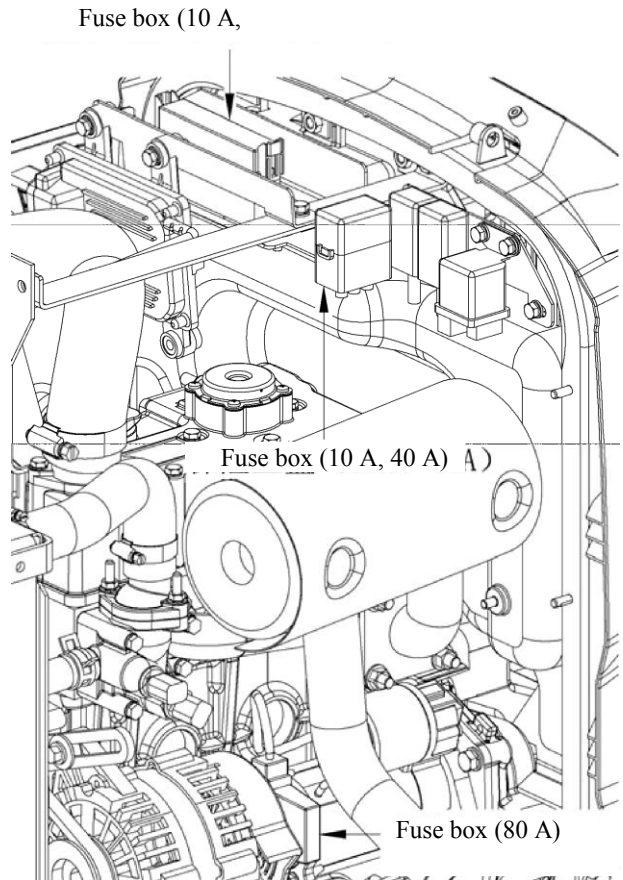
2. Replacing the fuse

1) Replacement method

- Remove the fuse box cover.
- Remove the fuse.
- Replace the fuse with the same capacity as the blown fuse.

Important

- If a newly replaced fuse burns out quickly, go to your dealer or designated after-sales service location for inspection and maintenance.



Note: If wiring is required to install additional work lights (optional) on the tractor, contact your dealer.

3. Replacing lamps

- 1) To replace, remove the turn signal bulb from the rear of the light housing.
- 2) Other work lights are LED combination lights. They must be replaced with new ones when damaged. Whole. For inspection and maintenance, contact your dealer or designated after-sales service location.

Tractor storage

Maintenance during long-term storage

If you will not be using the tractor for an extended period of time, perform the following maintenance before storing:

1. Repair defective parts.
2. Change the engine oil in the engine and perform corrosion prevention for 10 to 15 minutes at speeds above 2,000 rpm to allow oil to spread to all parts. Thereafter, perform the same corrosion prevention every 1 to 2 months.
Note: If the cooling water was drained during the corrosion prevention operation, fill the radiator with clean water before starting the engine. Drain the clean water after operation is completed.
3. Check and confirm the items in the Parts List for periodic inspections.
4. Lubricate moving parts that are susceptible to corrosion with grease or oil.
5. Drain cooling water. If the cooling water is supplemented with antifreeze, there is no need to drain it.
6. Unscrew the drain screw at the bottom of the clutch housing and check for water ingress.
7. The tyre pressure is slightly higher than the standard value.
8. Remove the battery from the tractor and store it in a cool, well-ventilated place. If the battery will not be removed from the tractor, remove the ground wire.
9. Remove the counterweight and remove or lower the implement to the ground.
10. Place wheel stops in front of and behind the rear wheels.
11. Check for damage to cables, battery lines, rubber hoses and tractor coatings, and check for dropped fastening straps and carry out maintenance.
12. Fully charge the battery once a month using the battery charger.
13. The storage area must be dry and free of water, free of combustible materials such as straw, and the tractor must be covered with a fabric cover.

Important

- If the tractor needs to be washed for long-term storage, switch off the engine. If it is necessary to start the engine, take care that water does not enter the engine through the air cleaner inlet. Otherwise a malfunction may occur.
- Be sure to remove the key in the **[Stop]** switch position before storing.
- When installing the battery, check the **(+)** and **(-)** poles carefully and do not connect them incorrectly. Reverse wiring can damage the tractor electronics.
- After the muffler and engine have cooled sufficiently, cover them with a tarp. Otherwise, it could cause a fire.

Tractor transport

Safety precautions for transport

As a rule, the tractor is not packed and accessories, implements and parts that have to be removed during transport are packed separately and transported with the tractor.

1. Loading and unloading shall be carried out in a level and open area.
2. A special loading and unloading platform shall be used for loading and unloading.
3. During loading and unloading, professional staff must be present on site to guide you and unskilled workers must not be allowed to approach.
4. After loading, set the main/auxiliary gear shift lever and PTO shifter to **[Neutral] (N)**, depress the brake pedal, and pull the parking handle to **[ON]**. Turn the key to the **[Stop]** position and pull it out.
5. Once loaded, secure the front and rear of the four tyres in a 'Λ' shape using strong ropes. Wedge the front and rear tires firmly and tighten the front and rear axles with the fixed cables.
6. If the tractor is equipped with a rear-view mirror, the rear-view mirror shall be drawn inwards as far as possible and may be removed and packed separately if necessary.
7. When vehicles pass through tunnels, bridge openings and columns with height restrictions, full attention must be paid to ensure that the tractor does not exceed the height limit and slow down when turning.
8. When unloading, release the parking brake, shift into forward gear and slowly descend at the lowest speed.

Troubleshooting

Engine faults and troubleshooting

If the engine fails, perform the diagnostics in the following table and take appropriate action.

Symptom	Reason	Troubleshooting
Difficulty starting the engine	1. Fuel not flowing	<ul style="list-style-type: none"> ● Check the fuel tank and remove accumulated dirt and water. ● Check the fuel filter and clean it if it is dirty.
	2. Air and water are mixed into the fuel system.	<ul style="list-style-type: none"> ● Check all fuel hoses and fasteners, tighten them if loose, and replace or repair if damaged. ● Venting. (See Necessary Inspection and Maintenance section).
	3. If the temperature is low, the oil viscosity is high and the resistance when the engine is running is high.	<ul style="list-style-type: none"> ● Pour hot water on the radiator. ● Use different brands of engine oil depending on different temperatures.
	4. The battery is discharged, causing the starter motor not to turn fast enough to start.	<ul style="list-style-type: none"> ● Charging the battery.
The output is insufficient	1. Not enough fuel	<ul style="list-style-type: none"> ● Refuel. ● Check the fuel system. (Pay special attention to make sure no air is mixed in.)
	2. Insufficient fuel flow	<ul style="list-style-type: none"> ● Clean the fuel filter.
	3. Air filter is clogged	<ul style="list-style-type: none"> ● Clean the filter cartridge.
Sudden stop	1. Low fuel	<ul style="list-style-type: none"> ● Refuel. ● Check the fuel system. (Pay particular attention to whether air has been mixed in.)
	2. Fuel cannot flow.	<ul style="list-style-type: none"> ● Check the fuel filter and clean it if it is dirty.
Abnormally black exhaust	1. Fuel is not good.	<ul style="list-style-type: none"> ● Replace it with premium diesel.
	2. Excessive oil	<ul style="list-style-type: none"> ● Adjust the amount of oil as specified.
	3. Air filter is clogged	<ul style="list-style-type: none"> ● Clean the filter cartridge.
Water thermometer indicator in red area	1. Cooling water has exceeded 110°C.	<ul style="list-style-type: none"> ● The amount of cooling water is insufficient. Refill it. ● Check if there is any water leakage. ● Check the fan belt tension. ● Check the front grille and radiator guard for debris blockage.
Continuous blue and white smoke on start-up	1. Moisture remains inside the muffler when previous work ends with a long idling period or when a cold engine is running continuously at idle.	<ul style="list-style-type: none"> ● Warm up the muffler fully by loading it. Try to avoid continuous cold engine idling and long idling.
	2. Nozzle failure	<ul style="list-style-type: none"> ● Check the nozzle.
	3. Fuel not good.	<ul style="list-style-type: none"> ● Replace with premium diesel.

Attached table

Main tractor specifications

1. Main tractor specifications

SN	Item		Unit	Values					
1	Model and name		-	ZX25, wheeled tractor					
2	Drive		-	Four-wheel drive (4x4)					
3	Overall dimensions (L× W× H)		mm	2450×970×1807					
4	Wheelbase		mm	1270			1320		
5	Turning radius		mm	1200/1700					
6	Clearance height		mm	285					
7	Weight		kg	679			684		
8	Matching engine	Production plant	-	SEEEYES, HINOMOTO, TAUROS					
		Model and specifications	-	XY377-A					
		Rated power	kW	18.5					
		Rated speed	rpm	3000					
		Applicable fuel	-	Diesel					
9	Front wheel	Construction type	-	With inner tube, steel hub, land wheel					
		Specifications	-	5-12					
		Wheelbase	mm	770 (standard)/960 ~ 1200 (adjustable)					
10	Rear wheel	Structural form	-	Without inner tube, steel hub, land wheel					
		Specifications	-	8-16					
		Wheelbase	mm	770 (standard)/960 ~ 1200 (adjustable)					
11	Clutch/brakes type		-	Dry single-plate/disc (wet)					
12	Steering mode		-	Power steering (integrated)					
13	Differential Mechanism Mode			2 pairs of bevel gears (with differential lock)					
14	Number of gears		-	9 forward gears, 3 reverse gears					
15	Shifting method		-	Combination of selective and constant gearing					
16	Travel speed	Forward (high speed)	km/h	4.17	8.53	15	4.95	10.1	17.7
		Forward (medium speed)		-	-	-	2.74	5.61	9.8
		Forward (low speed)		0.74	1.51	2.65	0.74	1.51	2.65
		Retrieved from		1.48	8.35	-	1.48	5.49	9.8
17	PTO speed / motor speed		rpm	635, 1116, 623 (reverse) / 3000					
18	Lifting device of the working machine	Control mode	-	Position control					
		Installation method	-	Three-point connection					

Note: These general conditions are subject to change without notice.

Attached table

2. Travel speed table

Auxiliary gear	Main transmission	Unit	ZX25
High	Reverse	km/h	8.35
	Forward 1		4.17
	Forward 2		8.53
	Forward 3		15
Low	Back		1.48
	Forward 1		0.74
	Forward 2		1.51
	Forward 3		2.65

Auxiliary gear	Main gearbox	Unit	ZX25
High	Backwards	km/h	9.8
	Forward 1		4.95
	Forward 2		10.1
	Forward 3		17.7
Medium	Backwards		5.49
	Forward 1		2.74
	Forward 2		5.61
	Forward 3		9.8
Low	Back		1.48
	Forward 1		0.74
	Forward 2		1.51
	Forward 3		2.65

Note: The above travel speed is based on the rated engine speed.

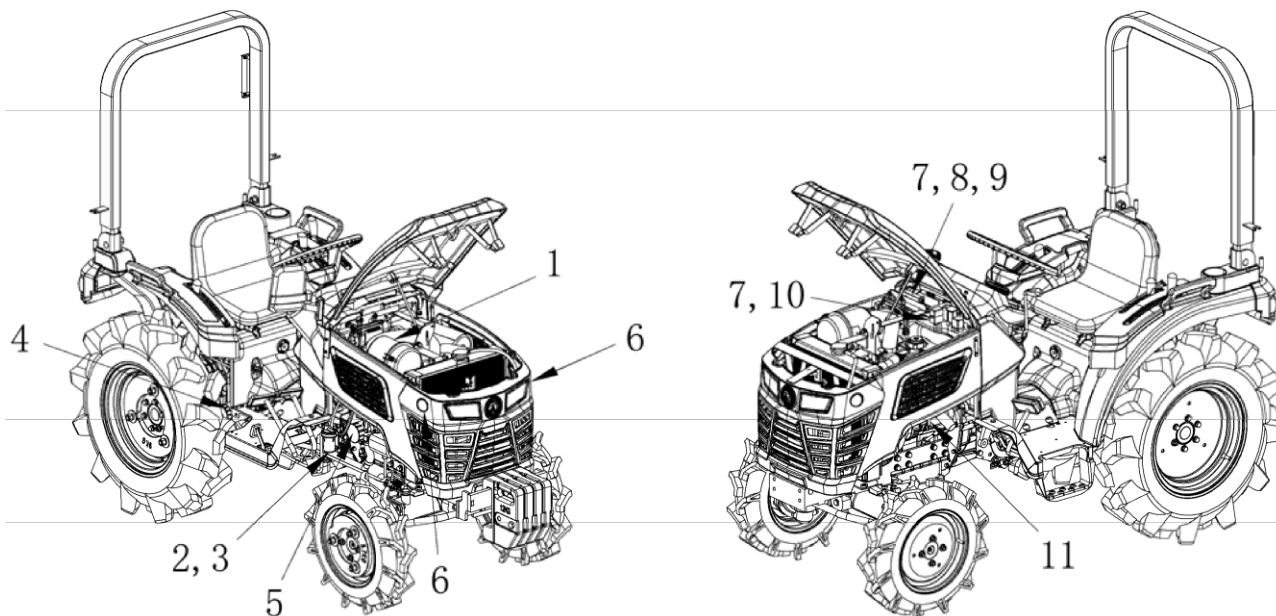
3. PTO parameters

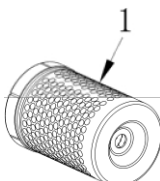
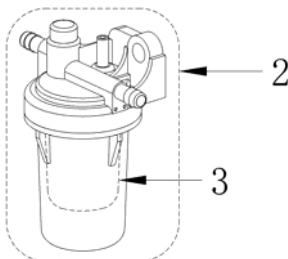
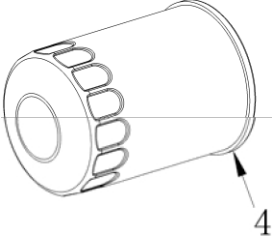
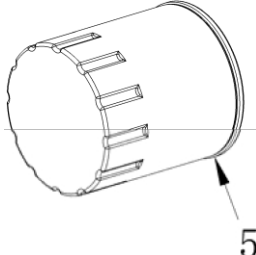
-	-	ZX25
PTO speed (revolutions per minute)	Forward rotation 1	635
	Forward rotation 2	1116
	Reverse rotation	623

Note: The above speeds are based on the rated speed of the motor.

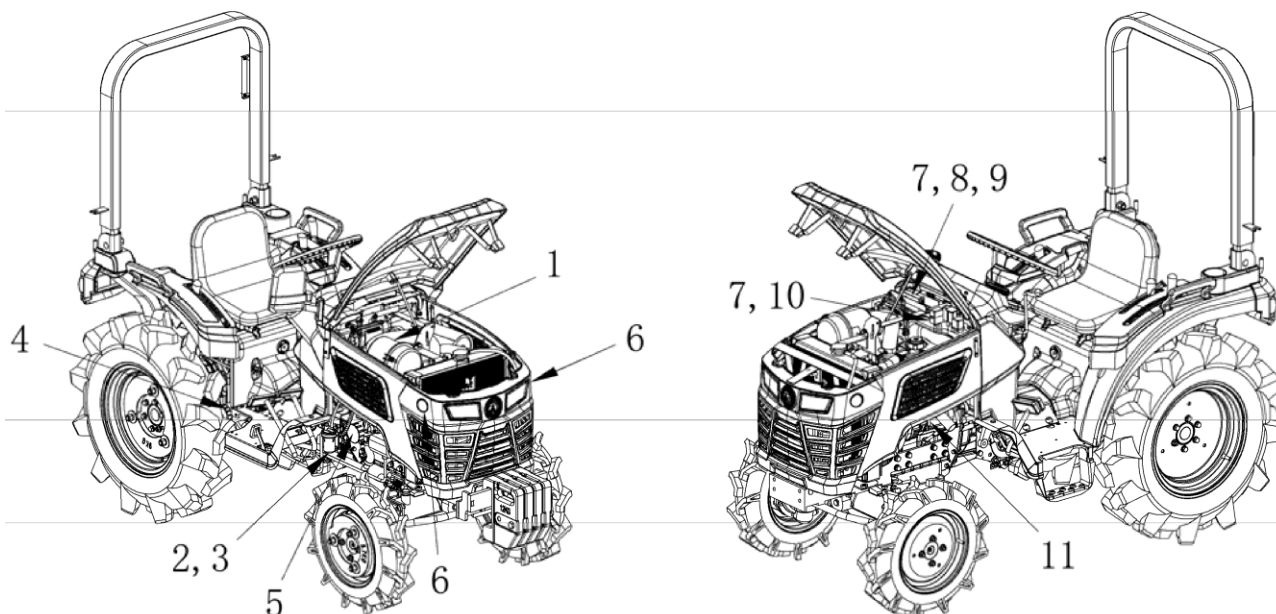
Attached table

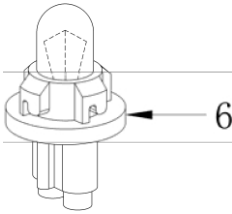
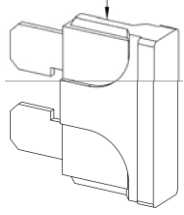
List of major wear parts



SN	Part drawing number	Part name	Appearance	Note
1	299000255	Air filter insert		
2	602071198	Fuel filter		
3	299000257	Fuel filter insert		
4	203001018	Hydraulic oil filter		
5	230000140	Oil filter		

Attached table



SN	Drawing part number	Part name	Appearance	Note
6	212000358	Control light bulb		
7	212000001	10 A fuse		Accompanying accessories (Tool bag)
8	212000152	Fuse 20 A		
9	212000003	Fuse 30 A		
10	212000137	Fuse 40 A		
11	212000248	80 A fuse		

Attached table

List of standard accessories

SN	Drawing number	Name	Quantity/set	Note
1	208170455	Lifting rod	2	Wooden box
2	208170458	Upper control arm	1	
3	216000136	End bar assembly	2	
4	216000137	Bottom rod weldment	2	
5	601030132	Factory certificate	1	Tool bag
6	601030133	Certificate with three guarantees	1	
7	219000527	Tractor Operator's Manual	1	
8	205000360	Lower shaft of the coupling pin	2	
9	201021925	Fixing plate of the end rod hinge	2	
10	207020021	End bar hinge sleeve	2	
11	205020058	End rod hinge shaft	1	
12	212000001	Fuse 10 A	1	
13	212000152	Fuse 20 A	1	
14	212000003	Fuse 30 A	1	
15	212000137	Fuse 40 A	1	
16	212000248	80 A fuse	1	
17	503030006	Washers 16	6	
18	505030109	Pin shaft B16×55	6	
19	505030102	Pin shaft B18×100×10×86	1	
20	505120012	10×45 circlip pin	3	
21	505070011	Locking pin 4×32	8	
22	505080011	Spring washer 16	2	
23	501080002	Hexagon nut with groove type 2 M16×1.5	2	
24	500080069	Combination of bolt and flexible washer M12×45	4	
25	219000002	Phillips screwdriver (PH2)	1	
26	219000528	Open end wrench (17-19)	1	
27	219000004	Open Key (12-14)	1	
28	219000005	Open Key (13-16)	1	
29	219000007	Open key (8-10)	1	

Attached table

List of installable working machines



Attention

- When installing a rear-mounted work machine, secure and install counterweights so that the load on the steering (front) wheels is 20% of the total weight.
- Do not use a machine that does not provide a steering (front wheel) load of more than 20% of the total weight, even if the tractor is equipped with the maximum counterweight.
- When using a front-mounted implement, install an additional implement or suitable counterweight on the rear of the tractor to improve stability.

SN	Work machine name	Purpose
1	Weeder in the set	For weeding and clearing paths in the orchard
2	Dry field ditch	For trenching in dry fields, orchards, greenhouses and other areas.
3	Rotary cultivator/cultivator	For breaking up the soil, levelling the soil surface after ploughing and for cutting root stubble that lies below the soil surface.
4	Fertiliser spreader	For efficient and effective spreading of fertiliser over a large area.
5	Trailer	For transport in orchards, farmland, greenhouses and other areas.
6	Potato harvester	For mechanised potato harvesting
7	Vegetable planter	For mechanised sowing of vegetables
8	Wheat planter	For mechanised wheat sowing
9	Pesticide sprayer	For spraying fruit trees in orchards with pesticides
10	Snow remover	For snow removal using a rolling brush, which greatly increases the efficiency of snow removal.



TAUROS

Tauros Ltd.

Nivnická 2875, 688 01 Uherský Brod 1

Orders and sales: info@tauros.tech

Service: jancar@tauros.tech

Tel: +420 777 049 454

**Tauros s.r.o., Czech manufacturer and seller of agricultural and
municipal equipment**



www.tauros.tech