FOREWORD

Thank you very much for purchasing our tractor which will give you many years of reliable service.

- The introduction in this manual sets out the correct manner of operating, maintaining and checking the tractor to ensure long-term durability.
- Please ensure correct operation of the tractor as incorrect can cause substantial mechanical damage as well as cause accidents with the associated injuries.
- Please note that in some cases differences can exist between this manual and your tractor due to the manufacture's policy of constant product improvement.
- In the event that you encounter a problem not covered by this manual, please contact your nearest dealer who will assist you in resolving your problem.



The following warning signs in this manual draw additional attention to items of importance for the safe and correct operation of the tractor.

SIGNS	MEANING OF THE SIGN
DANGER	This indicates that a condition may result in harm, serious injury or death to you or other persons if the warning is not heeded. Follow the advice provided with the warning signs.
	Hazard or unsafe practice that can lead to severe injury or death.
	Hazard or unsafe practice that can lead in injury or death.
	Instructions for the correct operation of the machine which, if followed, will ensure that it performs at its best.

All information, illustrations and specifications in this manual are based on latest information available at the time of publication. The right is reserved to make change at any time without a notice.

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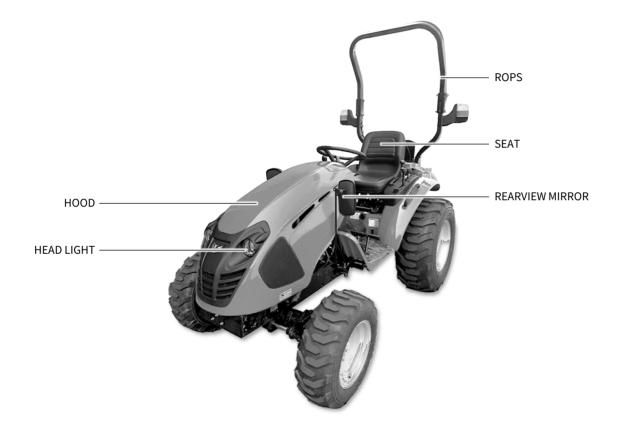
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1. EXTERIOR VIEW

RIGHT SIDE OF THE TRACTOR



► LEFT SIDE OF THE TRACTOR

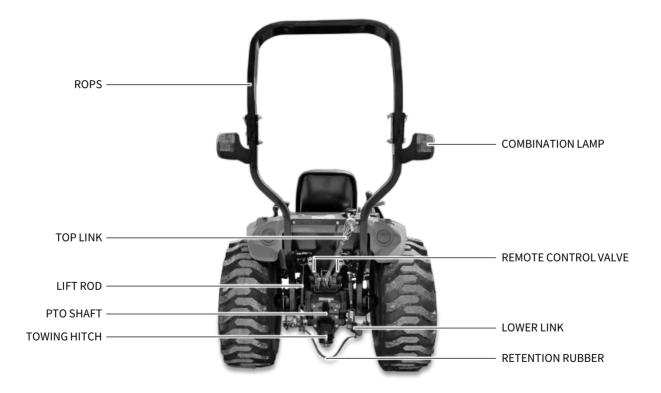




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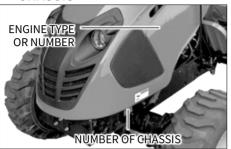
GENERAL INFORMATION =

BACK SIDE OF THE TRACTOR



2. TRACTOR IDENTIFICATION

TYPE OR NUMBER OF ENGINE & CHASSIS



The engine and chassis number are stamped as shown in the drawing above.

► WARRANTY OF THE PRODUCT

The manufacturer warrants this product and full details of the warranty are provided on a separate warranty schedule.

SERVICE & PARTS

• SERVICE

Service is available from any TYM dealer in the country.

PARTS

To obtain spare parts please contact your nearest dealer and give him the details listed below.

- Tractor model
- Tractor serial number
- Tractor engine number
- Part number and description
- Quantity required

A

3. ABOUT THIS MANUAL

This manual has been prepared to assist you in following/adopting the correct procedure for running-in operation and maintenance of your new TYM CO., LTD tractor.

Your tractor has been designed and built to give maximum performance, with good fuel economy and ease of operation under a wide variety of operating conditions.

Prior to delivery, the tractor was carefully inspected, both at the factory and by your TYM Dealer/Distributor, to ensure that it reaches you in optimum conditions.

To maintain this condition and ensure trouble free performance, it is important that the routine services, as specified in this manual, are carried out at the recommended intervals. Read this manual carefully and keep it in a convenient place for future reference.

If at any time you require advice concerning your tractor, do not hesitate to contact your authorized TYM dealer / distributor.

He has trained personnel, genuine parts and necessary equipment to undertake all your service requirements.

Manufacturer's policy is one of continuous improvement, and the right to change prices, specifications or equipment at any time without notice is reserved.

All data given in this book is subject to production variations.

Dimensions & weight are approximate only and the illustrations do not necessarily show tractors in standard condition. For exact information about any particular tractor, please consult your TYM dealer / distributor.

4. INTRODUCTION & DESCRIPTION

The word, 'tractor' has been derived from 'traction' which means pulling. A tractor is required to pull or haul an equipment, implement or trolley which are coupled to the tractor body through suitable linkage.

A tractor can also be used as a prime mover as it has a power outlet source which is also called Power Take or PTO shaft.

In this book the operating, maintenance and storage instructions for all models of TYM diesel tractors has been complied. This material has been prepared in detail to help you in the better understanding of maintenance and efficient operation of the machine.

If you need any information not given in this manual, or require the services of a trained mechanic, please get in touch with the TYM dealer / distributor in your locality. Dealer / distributors are kept informed of the latest methods of servicing tractors.

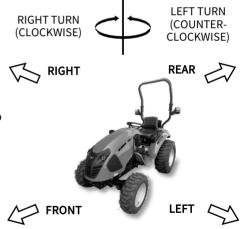
They stock genuine spare parts and are backed by the company's full support.

Through this manual, the use of the terms LEFT, RIGHT, FRONT and REAR must be understood, to avoid any confusion when following the introductions.

The LEFT and RIGHT means left and right sides of the tractor when facing forward in the driver's seat, reference to the FRONT indicates the radiator end of the tractor, while the REAR, indicates the drawbar end.

When spare parts are required, always specify the tractor and engine serial number when ordering these parts. This will facilitate faster delivery and help ensure that the correct parts for your particular tractor is received. The tractor serial number is punched on a plate attached to the left hand side of the engine body.

For easy reference, we suggest you to write the number in the space provided in the owner's personal data.



DESCRIPTION

GENERAL CONSTRUCTION

The transmission case, engine and front axle support are bolted together to form a rigid unit.

• FRONT AXLE & WHEEL

The 4WD front axle is a center-pivot, reverse eliot type.

The front wheel drive mechanism is incorporated as a part of the axle. The front wheel drive power is taken off the rear transmission and transmitted to the differential in the front axle where the power is divided into right and left and to the respective final cases.

In the final cases, the transmitted revolution is reduced by the level gears to drive the front wheel. The 4WD mechanism with level gears provides wider steering and greater durability.

• ENGINE

The tractors are fitted with vertical, water-cooled 4-cycle engine.

TRANSMISSION WITH HST

The Tractor is fitted HST with 2 range and can be selected speed range by sub shift lever.

The tractor has two pedals for forward/ reverse control .

Tractor with Independent Power Take Off is fitted with electro-hydraulic clutch Assy.

• BRAKES

TYM tractors are provided with independent disc brakes operated by two brake rods' movement. Use parking brake lever in case of parking the tractor.

• REAR AXLE & WHEELS

This is mounted on ball bearings and is enclosed in removable housing which are bolted to the transmission case. The rim & disc fitted with rear tires are bolted to the outer flange of rear axle.

• HYDRAULIC SYSTEM & LINKAGES TYM tractors are fitted with live independent, very touch of hydraulic system.

Three point linkages can be used for category 1 type of implements.

• STEERING

It consists of hydrostatic power steering system, which has a hydraulic cylinder and single type hydraulic pump.

5. OWNER ASSISTANCE

• ELECTRICAL SYSTEM

A 12 volt lead acid propylene battery is used to activate the engine through the starter motor and the electrical system comprising horn, head lamp. Side indicator lamps, plough lamp, brake light, gauge lamp, hazard lamp. Generator or alternator, fuse box also from part of the electrical system.

A WARNING

 When operating the tractor at high speed, do not attempt to make sharp turns by using the brakes. This may result in overturning of the tractor causing serious injury or death. We at TYM and your TYM dealer / distributor want you to be completely satisfied with your investment.

Normally any problems with your equipment will be handled by your dealer / distributor's service departments, however, misunderstanding can occur. If you feel that your problem has not been handled to your satisfaction, we suggest the following.

Contact the owner or general manager of the dealership, explain the problem, and request assistance. When additional assistance is needed.

your dealer / distributor has direct access to your office. If you cannot obtain satisfaction by doing this, contact the TYM office and provide us with;

- Your name, address and telephone number
- Model and tractor serial number
- Dealer / distributor name & address
- Machine purchase date and Hours used
- Nature of problem

Before contacting TYM office, be aware that your problem will likely to be resolved in the dealership using the dealer's / distributor's facilities, equipment and personnel. So it is important that your initial contact be with the dealer / distributor.

GENERAL INFORMATION

6. ROPS (ROLL OVER PROTECTIVE STRUCTURE)

► ROPS



TYM tractors are equipped with a frame for the protection of operators. In the case of cab tractors the frame is incorporated in the cab structure. The objective of the frame or cab structure is to protect the operator in the event of a roll over and they are designed to support the entire weight of the tractor in that event.

Each TYM ROPS frame or cab structure is designed and has been tested to meet industry and or government standards. Included in these tests were all mounting bases and bolts or other fasteners. On some models the ROPS frame has a fold down feature, which can be used to enter low buildings etc.

Take care when lowering the upper section of the ROPS frame and take extreme care while driving the tractor with the ROPS frame lowered.

Do not wear the seat belt with the ROPS lowered and please remember that the fold down facility is for special circumstances only and must not be lowered for general use.

DANGER

 For ROPS frames to be effective and protect the operator, the seat belt provided must be worn in order to keep operators within the ROPS protected area in the event of a roll over.
 Failure to use the seat belt can still cause serious injury or death.

USE OF TRACTOR WITH ROPS LOWERED CAN CAUSE FATAL INJURIES

As the ROPS frame or cab together with the seat belt was designed to meet certain standards, they must be maintained in good order and condition. To achieve this objective, both the structure and the seat belt should be inspected on a regular basis. (Every time the tractor is serviced)

In the event that the seat belt is damaged or frayed, it should be replaced and in the event that the ROPS frame or any part of the mounting structure is damaged or cracked, the faulty component must be replaced with a new unit.

Such a unit must meet all of the test criteria of the original unit.

Fitment of an inferior item or items affects the certification of the entire ROPS structure and the effectiveness of the structure in the event of an accident. Drilling or welding of the ROPS is forbidden.

GENERAL INFORMATION

DAMAGE OF ROPS

If the tractor has rolled over or the ROPS has damaged (such as striking an overhead object during transport), it must be replaced to provide the original protection.

After an accident, check for damages to

- ROPS
- SEAT
- SEAT BELT & SEAT MOUNTINGS

Before you operate a tractor, replace all damaged parts.



- Do not weld, drill or straighten the ROPS.
- Always wear your seat belt if the tractor is equipped with ROPS.

 If the ROPS is removed or replaced, make certain that the proper hardware is used to replace the ROPS and the recommended torque values are applied to the attaching bolts.

🛕 WARNING

- Never attach chains, ropes to the ROPS for pulling purposes. This will cause the tractor to tip backwards. Always pull from the tractor drawbar.
- Be careful when driving through door opening or under low overhead objects. Make sure there is sufficient overhead clearance for the ROPS fatal injuries.

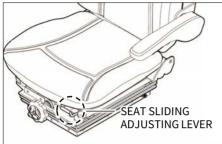
► ROPS



GENERAL INFORMATION

7. SEAT ADJUSTMENT

SEAT SLIDING



Before operating a tractor it is important to adjust the seat to the most comfortable position & check whether it is properly locked in its position.

IMPORTANT

• Do not use solvents to clean the seat. Use warm water with a little detergent added.

• Do not put a hand between the seat and the slides when adjusting the seat position.

You can get injured unexpectedly.

To select seat position, move adjusting lever and slide seat closer to or away from dash panel and controls.

DANGER

- Check whether the seat properly locked in its position before driving the tractor.
- Always use the seat belt when the ROPS is installed.
- Do not use the seat belt if a foldable ROPS is down or there is no ROPS. Check the seat belt regularly and replace if frayed or damaged.

CUSHION STRENGTH ADJUSTMENT



The seat cushion can be adjusted according to the weight of the driver.

Turning the cushion adjustment knob counterclockwise to the 50kg position makes the cushion lighter, and turning the lever clockwise to the 130kg position makes the cushion heavier.



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1. SAFETY INSTRUCTIONS

ENSURE SAFETY INFORMATION



This symbol means

'Attention! Your safety is involved.'

The message that follows the symbol contains important information about safety.

Carefully read the message.

SIGNAL SIGNS
 DANGER
 WARNING
 CAUTION

The signal signs

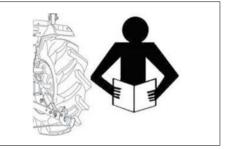
'DANGER, WARNING or CAUTION'

are used with safety alert symbol.

DANGER identifies the most serious hazards.

Safety symbols with signal signs 'DANGER or WARNING' are typically near specific hazards. General precautions are listed on CAUTION safety signs.

READ SAFETY INSTRUCTION

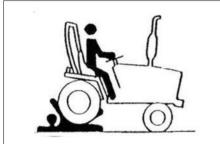


Carefully read all safety instructions given in this manual for your safety. Tempering with any of the safety devices can cause serious injuries or death.

Keep all safety signs in good condition. Replace missing or damaged safety signs.

Keep your tractor in proper condition and do not allow any unauthorized modifications to be carried out on the tractor, which may impair the function / safety and affect tractor life.

PROTECT CHILDREN



Keep children and others away from the tractor while operating.

Before you reverse

- Look behind tractor for children.
- Do not let children to ride on tractor or any implement.

USE OF ROPS AND SEAT BELT



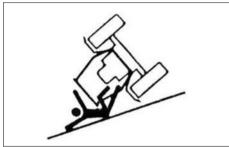
The Roll Over Protective Structure(ROPS) has been certified to industry and / or government standard. Any damage or alternation to the ROPS, mounting hardware or seat belt voids the certification and will reduce or eliminate protection for the operator in the event of a roll-over.

The ROPS, mounting hardware and seat belt should be checked after the first 100 hours of use and every 500 hours thereafter for any evidence of damage, wear or cracks.

In the event of damage or alternation, the ROPS must be replaced prior to further operation of the tractor. The seat belt must be worn during machine operation when the machine is equipped with a certified ROPS.

Failure to do so will reduce or eliminate protection for the operator in the event of a roll-over.

PRECAUTION TO AVOID TIPPING



Do not drive where the tractor could slip or tip.

Stay alert for holes and rocks in the terrain and other hidden hazards.

Slow down before you make a sharp turn.

Driving forward out of a ditch or mired condition could cause tractor to tip over backward.

Back out of these situations if possible.

PARK TRACTOR SAFELY

Before working on the tractor:

- Lower all equipment to the ground.
- Stop the engine and remove the key.

► KEEP RIDERS OFF TRACTOR



Do not allow riders on the tractor.

Riders on tractor are subject to injury such as being stuck by foreign objects and being thrown off of the tractor.



HANDLE FUEL SAFELY TO AVOID FIRE



Handle fuel with care. It is highly flammable.

Do not refuel the tractor while smoking or near open flame or sparks.

Always stop engine before refueling tractor.

Always keep your tractor clean of accumulated grease and debris. Always clean up spilled fuel. STAY CLEAR OF ROTATING SHAFTS



Entanglement in rotating shaft can cause serious injury or death.

Keep PTO shield in place at all the time.

Wear fitting clothing.

Stop the engine and be sure PTO drive is stopped before making adjustments, connections or cleaning out of PTO driven equipment.

ALWAYS USE SAFETY LIGHTS AND DEVICES



Use of hazard warning lights and turn signals are recommended when towing equipment on public roads unless prohibited by state or local regulations.

Use slow moving vehicle(SMV) sign when driving on public road during both day& night time unless prohibited by law.

► PRACTICE SAFE MAINTENANCE



Understand service procedure before doing work.

- Keep the surrounding area of the tractor clean and dry.
- Do not attempt to service tractor when it is in motion.
- Keep body and equipment to the ground.
- Stop the engine.
- Remove the key.
- Allow tractor to cool before any work repair is caused on it.
- Securely support any tractor elements that must be raised for service work.

- Keep all parts in good condition and properly installed.
- Replace worn or broken parts.
- Replace damaged / missing decals.
- Remove any build-up of grease or oil from the tractor.
- Disconnect battery ground cable ⊖ before making adjustments on electrical systems or welding on tractor.

AVOID HIGH PRESSURE FLUIDS



Escaping fluid under high pressure can penetrate the skin causing serious injury.

Keep hands and body away from pin holes and nozzle which eject fluids under high pressure.

If any fluid is injected into the skin, consult your doctor immediately.

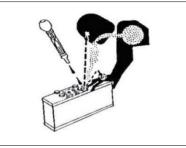
PREVENT BATTERY EXPLOSION



Keep sparks, lighted matches and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the poles.

PREVENT ACID BURNS



Sulfuric acid in battery electrolyte is poisonous.

It is strong enough to burn skin, cause holes in clothing and cause blindness if found entry into eyes.

For adequate safety always:

- Fill batteries in a well-ventilated area.
- Wear eye protection and acid proof hand gloves.
- Avoid breathing direct fumes when electrolyte is added.
- Do not add water to electrolyte as it may splash off causing severe burns.

If you spill acid on yourself:

- 1. Flush your skin or eyes with water for 10 ~ 15 minutes.
- 2. Get medical attention immediately.

= 3

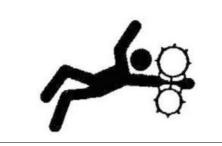
BATTERY DISCONNECTION



When working with your tractor electrical components, you must first disconnect the battery cables.

To ensure that there are no accidents from sparks, you must first disconnect the negative battery cable.

SERVICE TRACTOR SAFELY

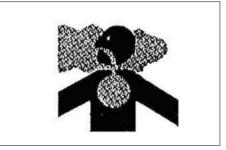


Do not wear a necktie, scarf or loose clothing when you work near moving parts.

If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.

WORK IN VENTILATED AREA



Do not start the tractor in an enclosed building unless the doors & windows are open for proper ventilation as tractor fumes can cause sickness or death.

If it is necessary to run an engine in an enclosed area remove the exhaust fumes by connecting exhaust pipe extension.

TRACTOR RUNAWAY

Engine start with transmission engaged can cause tractor to runaway resulting serious injury to the people standing nearby the tractor.

For additional safety keep the pull to stop knob (fuel shut off control) in fully pulled out position.

Transmission in neutral position, foot brake engaged and PTO lever in disengaged position while attending to Safety Starter Switch or any other work on tractor.

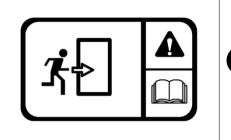
SAFETY START

Safety Starter switch for starting is provided on transmission main or sub shift lever and in PTO shift lever.

The tractor can be started only if main or sub shift lever is in neutral position.

• Safety Starter Switch is to be replaced after every 2,000 hours/4 years, whichever is earlier.

EMERGENCY EXITS



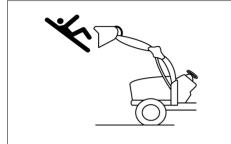
If exit from the cab side doors is blocked (following an accident or vehicle overturn) the alternative safety exits are indicated by decals.

The possible safety exits are:

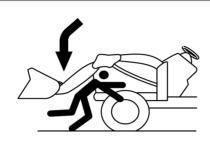
- Rear window hatch (All tractors)
- Front window (for versions with openable front window).



SAFETY PRECATIONS WHEN USING LOADER

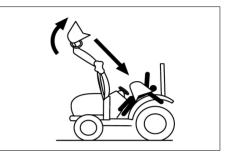


Never let anyone get in the loader and use the loader as a workbench. Otherwise, it may lead to a fatal injury or even death.



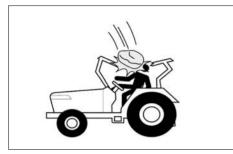
Do not stand under the lifted loader or get close to it.

Also, lower the loader arm onto the ground before leaving the tractor. Otherwise, it may lead to a fatal injury or even death.



When attaching or detaching the loader, fix all parts which are connected to the bucket and boom.

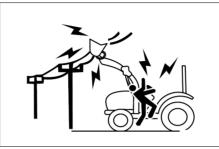
The bucket or boom can be accidentally dropped down, leading to an injury or even death.



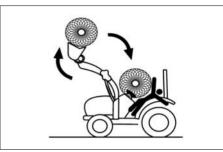
Be careful of objects falling from loader.

IMPORTANT

 ROPS (Roll Over Protective Structure), sun canopy or cabin are not a FOPS (Falling Object Protective Structure). It never can protect the riders against falling objects. Avoid driving the vehicle into a dangerous area such as falling rocks zone.



Do not allow loader arms or attachment to contact electrical power lines. Electrocution will cause serious injury or death.



Never carry a big object with the loader unless a proper implement is attached.

Keep a carried object low during driving.

Otherwise, it may lead to an injury or even death.

TOWING SAFELY

For the maximum towable loads, refer to the 'TIRE AND MASS' section in appendix chapter if available.

Maintain a suitable speed taking into account the weight of the trailed load and the gradient, remembering that braking distances will be greater than with just the tractor.

Trailed loads with or without brakes that are too heavy for the tractor or that towed at too high speed may cause the operator to loose of control of the tractor.

Always take into consideration the total weight of the implements and their loads.

• Before you leave the driving seat when a trailers is hitched to the tractor, remember to put all the controls in neutral, apply the parking brake, switch off the engine, engage first gear (if the tractor has a mechanical transmission) and remove the key from the starter switch.

If the tractor is not parked on level ground, always place chocks under the wheels of both the tractor and the trailer.

TRANSPORT TRACTOR BY TRUCK

Always secure the tractor to the loader bed with chains.

Before transporting the tractor on a low loader or on a railway wagon, make sure that the engine hood, doors, openable roof (if present) and windows are all closed and securely fastened.

Never tow the tractor at speeds in excess of 10km/h.

An operator must stay in the operator position to steer and brake the tractor.

► FALLING OBJECT PROTECTIVE STRUCTURE (FOPS)

The term FOPS refers to structure installed on the tractor intended to reduce the risk to the operator of injury from falling objects during normal use of the vehicle

IMPORTANT

- This tractor is not equipped with a FOPS.
- The energy level of drop test is 1365J.

OPERATOR PROTECTIVE STRUCTURE (OPS)

The term OPS refers to a protective structure installed on a tractor in order to minimize risk of operator injury caused by objects penetrating into the operator position area.

A DANGER

• This tractor is not equipped with an OPS. If work must be performed in areas subject to the risk of the penetration of objects into the operator position, consult your dealer before starting work so that the tractor can be equipped with an appropriate protective structure.

USE OF HAZARDOUS SUBSTANCES

European standard EN 15695-1 is applicable to the cabs of agricultural or forestry tractors and self-propelled sprayers.

The purpose of the standard is to limit the exposure of the operator (driver) to hazardous substances when applying plant protection products and liquid fertilizers.

In accordance with the stipulations of EN 15695-1 regarding cab classification, measurement of the internal positive pressure differential must be carried out in conformance with ISO 14269-5:

- The engine operating at nominal speed;
- The maximum quantity of air drawn from outside the cab (recirculation closed);
- Fan set to maximum speed.

The following terms and definitions are applied:

- Hazardous substances: substances such as dust, vapours and aerosols, with the exception of fumigants which can be dispersed during the application of plant protection products and liquid fertilizers, which may have a harmful effect on the operator.
- Dust general term identifying solid air-borne particles, finely divided and accumulated.
- Aerosol: suspension of solid, liquid or solid and liquid particulate in a gaseous medium with a negligible fall rate (generally less than 0.25 ms-1)
- Vapour:

gaseous phase of a substance whose liquid or solid state is stable at 20°C and 1 bar (absolute).

This cab, even when closed, does not protect against the inhalation of hazardous substances. If the manufacturer's instructions for using these substances recommend personal protective equipment, wear the equipment even in the cab.

Cabs are classified as follows:

- Category 1: the cab does not provide protection against hazardous substances.
- Category 2: the cab provides protection exclusively from dust.
- Category 3: the cab provides protection from dust and aerosol.
- Category 4: the cab provides protection from dust, aerosol and chemical vapours.

The classification category, as stipulated

by ISO 14269-5, of the cab installed on this range of tractors is given below:

- the engine operating at nominal speed
- the maximum quantity of air drawn from outside the cab (recirculation closed) with fan at maximum speed.

Table 2 – Technical data

CABIN / ROPS	CATEGORY
Hazardous substances protection category	1

DANGER

• Use all the personal protective equipment suitable for the tasks in hand and relative substances, in compliance with the requirements of statutory legislation in your country.

2. SAFE OPERATION OF YOUR TRACTOR

The manufacturer of your tractor has made every effort to make it as safe as is humanly possible.

Beyond this point it is the responsibility of the operator to avoid accidents and we ask that you read and implement our suggestions for your safety.

Ensure that only trained and competent operators use this tractor and ensure that they are fully conversant with the machine and aware of all its control and safety features.

Operators should not operate the tractor or associated machinery while tired or untrained.

To avoid accidents please ensure that the operator wears clothing which will not get entangled in the moving parts of the tractor or machine and protect him or her from the elements. When spraying or using chemicals, please ensure that clothing and protective equipment is worn which prevents respiratory or skin problems.

For full details consult the manufacturer of the chemicals.

To avoid lengthy exposure to noise ensure that ear protection is worn.

If adjustment to the tractor or machinery need to be made ensure the tractor or machine are turned off beforehand. Use of certified Roll Over Protection Structure (ROPS) is a must while operating a tractor.

Use of seat belt is a must while operating a tractor.

In summary, ensure at all times that the safety of the operator and any other worker is paramount.

Ensure no one is between the tractor and a towed vehicle (trailer or implement).

SAFETY TIPS DURING MAINTENANCE

- At least on a daily basis check all oil levels. Water level in the radiator and electrolyte level in the battery and perform services according to the service schedule.
- 2. Ensure tire pressure are even and the correct pressure for the job being done is maintained.
- Check to ensure that the all controls and preventative mechanisms of the tractor and implement work correctly and effectively.
- 4. Ensure that an adequate set of the correct tools is available for maintenance and minor repairs.
- Ensure that all service work and repairs are carried out on a flat area with a concrete or similar floor. Do not carry out service work on a tractor until it is switched off, and

the parking brake applied and wheels choked.

Where a tractor is started in a confined area, ensure that the area is well ventilated as exhaust gases are very harmful, and can cause death.

- 6. Do not work under raised implements.
- 7. When changing wheels or tires ensure that a suitable wheel stand is placed under the axle prior to removing the wheel and the wheels are chocked.
- 8. Where guards or shields need to be removed to perform a service or repair, ensure that the guard or shield is correctly reinstalled before starting the tractor.
- 9. Never refuel near a naked flame or with an overheated engine.

Ensure to turn off Engine before refueling.

10. The cooling system operates under pressure, take care when removing the radiator cap on a hot engine to prevent being scalded by steam or hot water.

Do not add water in the radiator when the engine is hot. Add water to the radiator only after the engine cools down completely.

11. To prevent fires keep the tractor including the engine clean and free from inflammable material and well away from fuels and other inflammable material.

MOUNTING AND DEMOUNTING IMPLEMENTS

- Ensure that all mounting and removal of implements is done on safe flat ground.
 Ensure no one is between the tractor and implement and do not get under the implement to avoid accidental injuries.
- 2. After mounting the implement, ensure that all sway chains are correctly adjusted and, where PTO shafts are used that the shaft is fitted and secured correctly.
- 3. Where heavy implements are used, ensure that the combination is well balanced or use proper ballast to achieve balance.
- 4. Before leaving the tractor at any time, lower the implement, stop the PTO shaft where applicable, set the parking brake and switch off the engine.

- 5. While operating the implements with the PTO keep all bystanders away from any moving parts and do not attempt to make adjustments while the machine is running.
- 6. Only the driver should ride on the tractor with the ROPS frame fitted and with the seat belt properly fastened.
- 7. Where young children are present, particular care should be taken and the tractor should not be moved until the whereabouts of all children is known.
- 8. Only trained operators should operate the tractor and so taking care to ensure that other workers are not injured. In particular they should take care during dusty operations, which will reduce visibility substantially.

- 9. Never start the tractor unless the transmission is out of gear, the operator is in the seat and all round safety has been checked.
- 10. Only operate the tractor seated in the driver's seat and never turn or brake suddenly at high speed as this can cause a roll-over and serious injury or death.
- 11. When traveling on a public road ensure that the tractor and driver both meet all laws relating to safety and licensing.When traveling with wide implements use red flags on the extremities and observe all legal including escort requirements.
- 12. When operating under adverse conditions, hilly terrain or on bad ground adjust the speed of the tractor to suit the conditions, safety

comes first.

Never drive down-hill at high speed or with the transmission in neutral. Use of the braking capacity of the engine as well as the service brakes. Do not try to change gear going up or down a steep slope, select the correct gear before starting.

- 13. Take care when traveling uphill with a heavy implement to ensure that it does not overbalance and tip up the front end.
- 14. Never remove or modify the seat belt.
- 15. Never remove, modify or repair the ROPS frame.

Please remember that a little bit of extra care can prevent serious injury or death and avoid damage to your tractor.

► THE FOLLOWING PRECAUTIONS ARE SUGGESTED TO HELP PREVENT ACCIDENTS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. Read and take the following precautions before operating the tractor to prevent accidents. Tractor should be operated only by those who are responsible and properly trained to do so.

<THE TRACTOR>

- Read the operator's manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
- Use an approved rollover bar and seat belt for safe operation.
 Overturning of a tractor without a rollover bar can result in death or injury.
- Do not remove ROPS (Roll Over Protective Structure). Always use the seat belt.
- 4. Fiberglass canopy does not give any

protection.

- 5. To prevent falls, keep steps and platform clear of mud and oil.
- 6. Do not permit anyone but the operator to ride on the tractor. There is no safety place for extra riders.
- 7. Replace all missing, illegible or damaged safety signs.
- 8. Keep safety signs clean of dirt and grease.

<SERVICING THE TRACTOR>

- keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.
- 2. Stop the engine before performing any service on the tractor.
- 3. The cooling system operates under pressure, which is controlled by the radiator cap.

It is dangerous to remove the cap while the system is hot.

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SAFETY PRECAUTIONS

First turn the cap slowly to stop and allow the pressure to escape before removing the cap entirely.

4. Do not smoke while the refueling the tractor.

Keep away any type of open flame.

5. The fuel in the injection system is under high pressure and can penetrate the skin.

> Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any part of the fuel injection system. Failure to follow these instructions can result in serious injury.

- 6. Keep open flame away from battery or cold weather starting aids to prevent fire or explosions.
- 7. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor functions.

<OPERATING THE TRACTOR>

 Before starting the tractor apply the parking brake, place the PTO (Power Take Off) lever in the 「OFF」 position, the position control levers in the downward position, the hydraulic control levers in the neutral position(If fitted) and the transmission in neutral.

 Do not start the engine or controls while standing beside the tractor. Always sit on the tractor seat when the engine or operating controls.

3. Safety start:

In order to prevent the accidental starting of the tractor, a safety switch has been provided. The starting system of the tractor is connected through this switch. On some models shuttle shifter lever and PTO button should also be in neutral position for completing the starting circuit. Do not bypass the safety switch. Consult your TYM tractor distributor / dealer if safety switch malfunctions.

4. Avoid accidental contact with the gear shifter lever while the engine is running.

Unexpected tractor movement can result from such contact.

- 5. Do not get off or climb the tractor while it is in motion.
- 6. Shut off the engine, remove the key and apply the parking brake before getting off the tractor.
- Do not operate the tractor in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
- 8. Do not park the tractor on a steep slope.
- 9. If power steering or Engine seizes to operate, stop the tractor immediately.
- 10. Pull only from the swinging draw bar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place.

Pulling from the tractor rear axle carriers or any point above the rear axle may cause the tractor's front end to lift.

11. If the front end of the tractor tends to rise when heavy implements are attached to the three point linkage, install front end or front wheel weights.

Do not operate the tractor with a light front end.

- 12. Always use hydraulic position control lever when attaching equipment / implement and when transporting equipment. Be sure that the hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
- 13. Do not leave equipment/implement in the raised position.
- 14. Use the flasher / turn signal lights and Slow Moving Vehicle (SMV) signs when driving on public roads

during both day and night time, unless prohibited by law.

- 15. Dim tractor lights when meeting a vehicle at night.Be sure the lights are adjusted to prevent the blinding on the eyes of coming vehicle operator.
- Emergency stopping instruction; If tractor fails to stop even after application of brakes. Pull the knob of fuel shut off control rod.

<DRIVING THE TRACTOR>

- 1. Watch where you are going especially at row ends, on roads, around trees and low hanging obstacles.
- 2. To avoid upsets, drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, crossing ditches or slopes, and when turning at corners.

- 3. Lock the tractor brake pedals together when transporting on roads to provide proper wheel braking.
- 4. Keep the tractor in the same gear when going downhill as used when going uphill.

Do not coast or free wheel down hills.

- 5. Any towed vehicle and/or trailer whose total weight exceeds that of the towing tractor, must be equipped with its own brakes for safe operation.
- 6. When the tractor is stuck or tires are frozen to the ground, back out to prevent upset.
- 7. Always check overhead clearance, especially when transporting the tractor.

<OPERATING THE PTO>

- When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment.
- 2. Do not wear loose clothing when operating the power take-off or near rotating equipment.
- 3. When operating stationery PTO driven equipment, always apply the tractor parking brake and block the rear wheels from front and rear side.
- To avoid injury, always move down flip part of PTO.
 Do not clean, adjust or service PTO

driven equipment when the tractor engine is running.

5. Make sure the PTO master shield is installed at all times and always replace the PTO shield cap when the PTO is not in use.

<DIESEL FUEL>

- 1. Keep the equipment clean and properly maintained.
- 2. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fire or explosive hazard.

Such blends are more explosive than pure gasoline. In a closed container, such as a fuel tank. DO NOT USE THESE BLENDS.

- 3. Never remove the fuel cap or refuel the tractor with the engine running.
- 4. Do not smoke while refueling or when standing near fuel.
- 5. Maintain control of the fuel filler pipe when filling the tank.
- 6. Do not fill the fuel tank to capacity. Allow room for expansion.
- 7. Wipe up spilled fuel immediately.
- 8. Always tighten the fuel cap securely.
- If the original fuel tank cap is lost, replace it with genuine cap.
 A none approved cap may not be safe.

- 10. Do not drive equipment near open fire.
- 11. Never use fuel for cleaning purpose.
- 12. Arrange fuel purchases so that winter grade fuel are not held over and used in the spring.
- 13. Use ultra-low sulfur fuel only.

IMPORTANT

 It is suggested that after repairs if any of the safety decals or signs are peeled or defaced, the same may be replaced immediately in interest of your safety.

3. DOs & DON'Ts

DOS – FOR BETTER PERFORMANCE

- **DO** Ensure that safety shields are in place and in good condition.
- **DO** Read all operating instructions before commencing to operate tractor.
- **DO** Carry out all maintenance tasks without fail.
- DO Keep the air cleaner clean.
- **DO** Ensure that the correct grade of lubricating oils is used and that they are replenished and changed at the recommended intervals.
- **DO** Fit new sealing rings when the filter elements are changed.
- **DO** Watch the oil pressure gauge or warning light and investigate any abnormality immediately.

- DO Keep the radiator filled with clean water and in cold weather use antifreeze mixture. Drain the system only in an emergency and fill before starting the engine.
- **DO -** Ensure that the transmission is in neutral before starting the engine.
- **DO** Keep all fuel in clean storage and use a filter when filling the tank.
- **DO** Attend to minor adjustments and repairs as soon as necessity is apparent.
- **DO** Allow the engine to cool before removing the radiator filler cap and adding water, remove the radiator cap slowly.
- **DO -** Shift into low gear when driving down steeps hills.

- **DO -** Latch the brake pedals together when driving on a highway.
- **DO** Keep draft control lever fully down when not in use.



DON'Ts – FOR SAFE OPERATION

- **DON'T** Run the engine with the air cleaner disconnected.
- **DON'T** Start the tractor in an enclosed building unless the doors and windows are open for proper ventilation.
- **DON'T** Operate the tractor or engine while lubricating or cleaning.
- **DON'T** Allow the tractor to run out of diesel fuel otherwise it will be necessary to vent the system.
- **DON'T** Temper the fuel injection pump, If seal is broken the warranty becomes void.
- **DON'T** Allow the engine to run idle for a long period.
- **DON'T** Run the engine if it is not firing on all cylinders.

- **DON'T -** Ride the brake. This will result in excessive wear of the brake lining.
- **DON'T** Use the independent brakes for making turns on the highway or at high speeds.
- **DON'T** Refuel the tractor with the engine running.
- **DON'T** Mount or dismount from the right side of the tractor.
- **DON'T** Temper the hydraulic control levers' upper limit stops.
- **DON'T** Use draft control lever for lifting of implements.
- **DON'T** Start the engine with the PTO engaged.
- **DON'T** Use the throttle lever while driving on roads.

DON'T - Move the hydraulic levers rearward.

4. SAFETY DECALS

GENERAL INFORMATION OF DECALS

In order to work with the machine safely, safety decals should be placed on the machine.

Make sure to read and follow the following directions.

KEEP THE WARNING LABELS CLEAN AND NOT DAMAGED AT ALL TIMES.

If a decal on the machine is dirty, wash it with soapy water and wipe it off with a soft cloth. Never use solution such as thinner or acetone because these can erase characters or pictures.

IF WASHED WITH HIGH PRESSURED WATER, A DECAL MAY BE PEELED OFF.

Do not apply high pressured water directly onto decals.

IF A SAFETY DECAL IS DAMAGED OR LOST, ORDER A NEW ONE IMMEDIATELY AND PLACE IT ON THE MACHINE.

When putting a new decal, wipe off the place to post the decal thoroughly and wait till it is dried. Then post the decal.

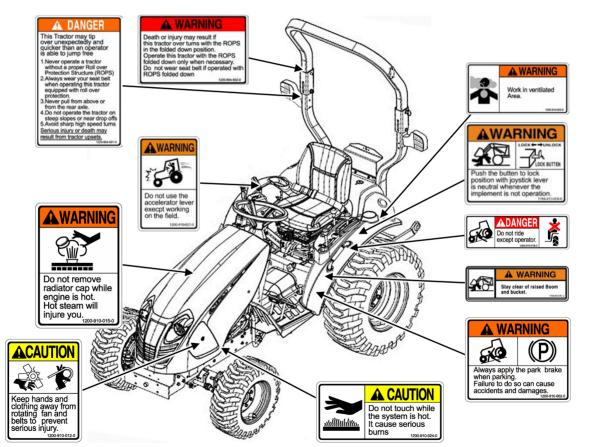
Each decal has a part number on the bottom.

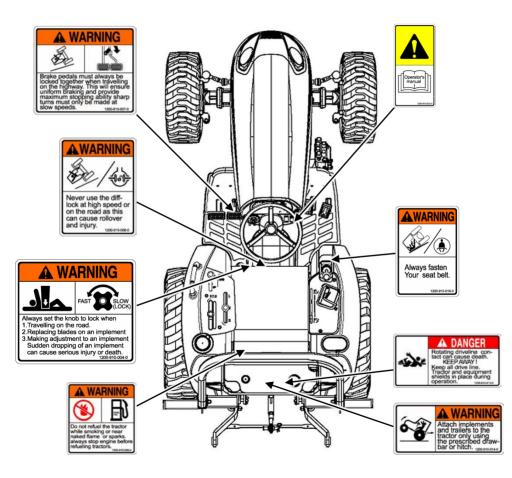
WHEN REPLACING A PART ATTACHED WITH A DECAL WITH A NEW PART, REPLACE THE DECAL AS WELL.

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SAFETY PRECAUTIONS

SAFETY DECALS ON CHASSIS





5. UNIVERSAL SYMBOLS

Some of the universal symbols have been shown below with an indication of their meaning.

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
ENGINE SPEED (REV/MIN X 100)		PRESSURED, OPEN SLOWLY		CORROSIVE SUBSTANCE	1.*C
HOURS, RECORDED	$\mathbf{\Sigma}$	CONTINUOUS VARIABLE	\Diamond	SLOW OR MINIMUM SETTING	-
ENGINE COOLANT TEMPERATURE	9	DANGER, WARNING, CAUTION		FAST OR MAXIMUM SETTING	4
FUEL LEVEL	B	HAZARD WARNING		TRANSMISSION OIL PRESSURE	~Q~
ENGINE STOP CONTROL		NEUTRAL	Ν	TURN SIGNAL	$\langle \phi c \rangle$
LIGHTS	Þ	FAN	s	TRANSMISSION OIL TEMPERATURE	Ø
HORN	H	POWER TAKE OFF ENGAGED	۲	PARKING BRAKE	®
ENGINE OIL PRESSURE	⇒⊘⇔	POWER TAKE OFF DISENGAGED	Terminal statements	WORKING LAMP	Ð
AIR FILTER CONTAMINATED	<u>\.</u>	RAISE LIFT ARM	85	DIFFERENTIAL LOCK	
BATTERY CHARGE	Ê	LOWER LIFT ARM	7	REFER TO OPERATOR'S MANUAL	Ф

B

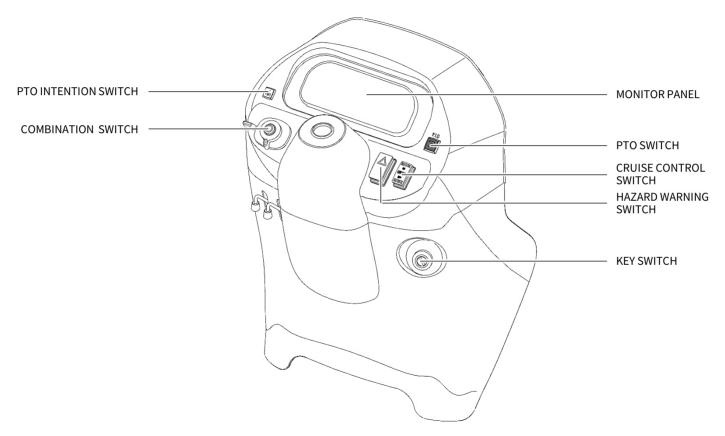
MEMO·····



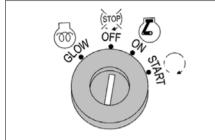
1.	SWITCHES······C-2
2.	MONITOR PANEL & GAUGES · · · · · · · · · · · C – 5
З.	CONTROL INSTRUMENTS ····································
4.	THREE POINT LINKAGE · · · · · · · · · · · · · · C – 19

1. SWITCHES

FIGURE OF DASHBOARD



KEY SWITCH



This switch is used to operate engine.

1. GLOW -

Glow plugs pre-heat the combustion chamber.

2. OFF –

The ignition key can be inserted and removed in this position. Engine is stopped in this position.

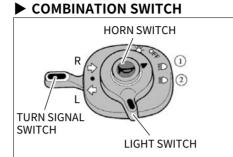
3. ON-

The engine is kept running and switches are energized in this position.

4. START –

The engine can be started in this position.

When releasing the key, the switch is returned to $\ \mbox{FON}\ \mbox{position}.$



Turn signal lights, head light and horn can be operated with this switch.

- 1. Right/Left turn signal switch
- 2. light switch (low(①)/high(②) beam)
- 3. Horn switch

IMPORTANT

- If one side is blinking, the other side is still on.
- This lever is not automatically returned to the neutral position. Therefore, set it back to the neutral position after turn.
- The high beam can obstruct the view of other drivers coming in the opposite direction on a road, leading to an unexpected accident.

HAZARD WARNING SWITCH



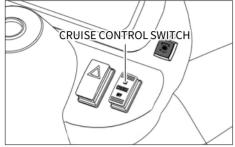
This switch can be used to warn other vehicles when malfunction occurs in the tractor while driving on public road. When pressing the switch once, left and right signal lights blink.

To turn off, press the switch once again.

IMPORTANT

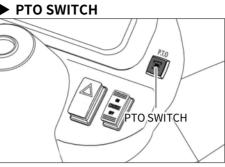
• Use it only when necessary as it can discharge battery and obstruct other drivers.

CRUISE CONTROL SWITCH



When pressing the cruise switch, the button lamp comes on, cruise is activated, and the lamp on the monitor panel comes on.

The cruise is deactivated if pressing the switch to the OFF portion or depressing the brake pedal.



Operation for 'automatic' and 'manual' positions of the PTO switch is as follows :

「ON」 -

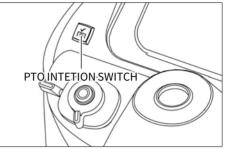
When pressing the switch, the red lamp comes on and the PTO shaft rotates.

• 「OFF」 -

When pressing the switch again, the lamp goes off and the PTO shaft stops rotating.

PTO shaft will not rotate if PTO switch is in OFF position.

PTO INTENTION SWITCH

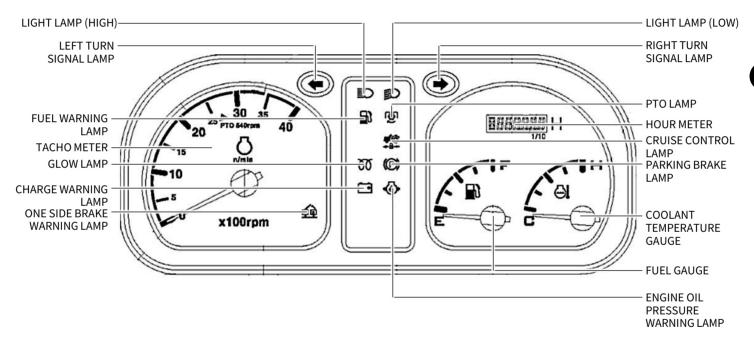


PTO intention switch can control the rotation of PTO shaft on condition of operator's position.

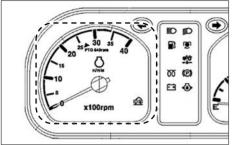
- ON PTO shaft keep rotating whether operator leaves the seat or not.
- OFF PTO shaft stops when operator leaves the seat.

2. MONITOR PANEL & GAUGES

FIGURE OF MONITOR PANEL



TACHO METER

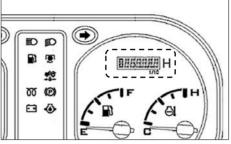


It displays the revolution of the engine or PTO shaft per minute.

IMPORTANT

• The engine can be damaged if increasing its speed too fast.

HOUR METER

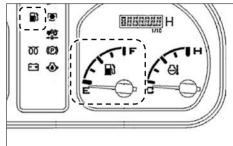


It indicates the total time of use. The last digit indicates one tenth hours. (decimal place)

It shows hours the tractor has been used.

The lamp at bottom of hour meter should twinkle during operation.

FUEL GAUGE & FUEL WARNING LAMP



<Fuel gauge>

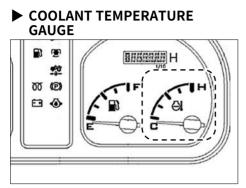
This indicates the amount of fuel while the main switch is in the <code>「ON」</code> position.

- F Full
- E Empty

<Fuel warning lamp>

This lamp shows warning that the fuel in fuel tank goes empty.

If this lamp comes on, Fill the tank with fuel.



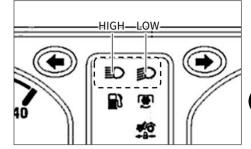
The gauge shows the coolant temperature while the key switch is in ON position.

'C' means low to normal temperature and 'H' means high temperature. If the pointer is in the red H segment, the engine is overheating. Refer this book to rectify the problem.

► TURN SIGNAL LAMPS

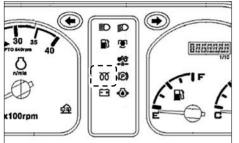
This lamp is used to indicate the intended turning direction of the driver. When pulling down the turn signal switch, the left turn signal lamp blinks. When pushing up the turn signal switch, the right turn signal lamp blinks. These lamps are operated when pressing the hazard warning lamp switch as well.

► LIGHT LAMPS



These lamps come on when light switch turned on.

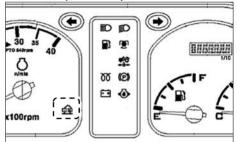
GLOW LAMP



► PARKING BRAKE LAMP (OPTION)

This comes on when the parking brake is applied.

ONE SIDE BRAKE WARNING LAMP (OPTION)



This comes on while the engine preheating function is activated. It goes off as soon as preheating is completed.

This comes on when the brake pedal connecting arm is not engaged.

• Connect the left and right brake pedals while driving on a road, loading / unloading the vehicle or driving into/out of a field to avoid rollover and collision.

CHARGE WARNING LAMP

This comes on when the key switch is turned to the $\lceil ON \rfloor$ position, and goes off as soon as the engine is started.

ENGINE OIL PRESSURE WARNING LAMP

 30 35

 30 35

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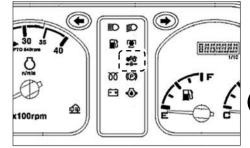
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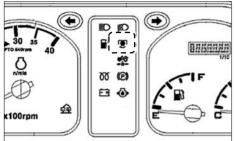
This is illuminated when the engine oil pressure or oil amount is insufficient during driving.

CRUISE CONTROL LAMP



This will turn on when cruise control is engaged.

▶ PTO LAMP

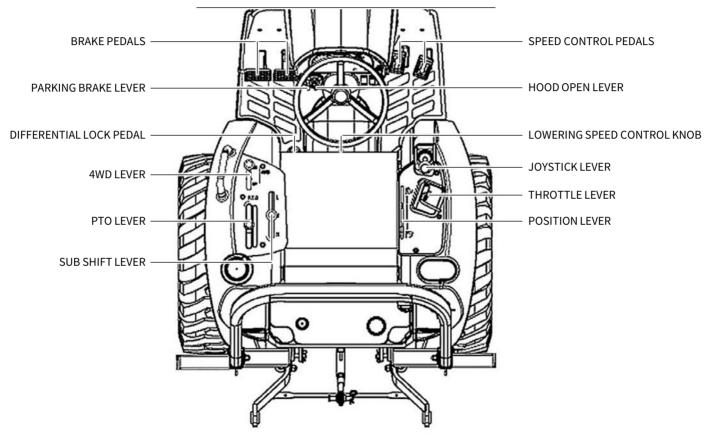


This indicates status of PTO shaft.

- ON The PTO shaft is rotating.
- BLINK The PTO shaft is stopped, but will rotate when a implement is lowered.
- OFF The PTO shaft is stopped.

3. CONTROL INSTRUMENTS

► FIGURE OF TRACTOR CONTROLS



BRAKE PEDALS



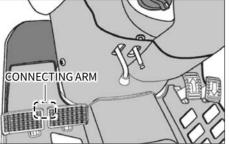
The brake is to stop the tractor forcibly. Unlike general automobiles, this tractor is equipped with left and right brake pedals.

Each brake pedal brakes only one side wheel on the corresponding side.

IMPORTANT

- One side braking function can be used for making sharp turn.
- Never use turn using brake pedal on public road.

BRAKE PEDALS CONNECTING



There is engaging hook for connecting the left and right brake pedals.

- Connect the left and right brake pedals while driving on a road, loading / unloading tractor to avoid rollover and collision.
- Inspect brake pedal free play periodically so that they can be operated simultaneously.

PARKING BRAKE LEVER

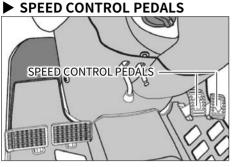


With the left and right brake pedals interlocked, depress the brake pedal with a right foot firmly and pull up the parking brake lever to lock the pedals.

To release the parking brake, depress the brake pedal firmly.

IMPORTANT

 The brake discs can be worn prematurely if driving the vehicle with the parking brake engaged partially.



These are used to move the tractor forward or backward.

IMPORTANT

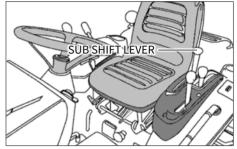
- Do not change from forward to backward or backward to forward suddenly in high range.
- Sudden change may result in damage of mechanism and place the operator at risk of injury.

THROTTLE LEVER

The hand throttle lever is used to change engine speed.

- Pulling the throttle lever toward the operator decreases engine speed.
- Pushing it away from the operator increases engine speed.

SUB SHIFT LEVER

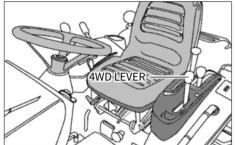


The range shift lever is used to select the speed range of tractor. The lever can be shifted only when the tractor stops completely. The lever is linear and has three positions, a neutral and two range gears. A neutral is located between L and H range gear.

IMPORTANT

 Operate the sub shift lever only after the tractor is completely stopped.
 Shifting the lever during driving can damage the gears.

4WD LEVER



 「ON」 –
 Push forward 4wd lever to the 「ON」 position to engage 4WD.

• 「OFF」 -

Push backward 4wd lever to the 「OFF」 position to disengage 4WD.

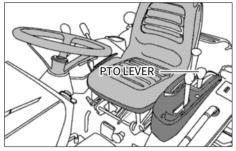
<Examples of useful conditions of 4WD>

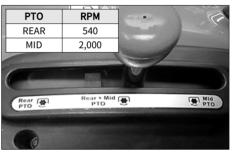
The 4WD can be used under the following conditions :

- 1. When cultivating in a field.
- 2. When traction is required on a slope, in a wet field or for towing a trailer.
- 3. When working in a wet or sandy field.
- 4. When cultivating on firm soil with a rotavator to prevent the tractor from being pushed forward.
- 5. When driving into/out of a field or going over a field bank.

- Before operating the 4WD lever, make sure to stop the tractor.
- If it is hard to engage the 4WD lever, do not apply excessive force to it. Instead, drive the tractor forward or backward slightly and try it again.
- Avoid using 4WD on public roads to reduce wear on tires.

PTO LEVER





PTO shift lever has 3 positions, rear, mid and rear & mid. (mid PTO is option)

IMPORTANT

• Turn off PTO switch before changing PTO shift lever position.

DIFFERENTIAL LOCK PEDAL



The differential lock is a device to lock the differential system in order to rotate the left and right wheels at the same speed.

This function can be used when the rear wheels slip or one wheel spins.

- To engage Depressing the pedal.
- To disengage Releasing the pedal.

<Examples of useful conditions of differential lock>

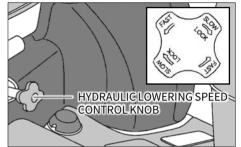
- 1. One wheel slips or tractor cannot be driven forward when moving into/out of a field.
- 2. A wheel slips during work requiring traction, such as plowing.
- 3. One wheel is stuck into a soft field and can't escape.

- Never use the differential lock when driving on a road.
 A collision or rollover can occur.
- Make sure to release it during turning. Otherwise, it can lead to an injury or accident.

IMPORTANT

- When using the differential lock, run the engine at a low speed.
- If differential lock is still not disengaged after releasing the differential lock pedal, gently depress the left and right brake pedals alternately.

LOWERING SPEED CONTROL KNOB

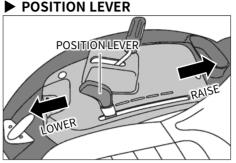


This can be used to adjust the lowering speed of the implement. Adjust the lowering speed according to the implement type and working environment.

<Operation>

- Rotavator Slow the lowering speed.
- Plow Speed up the lowering speed.
- Decreasing lowering speed Turn the knob clockwise (slower).
- Increasing lowering speed Turn the knob counterclockwise (faster).
- Lock Turn the knob clockwise (slower) to its end.

- Set it to the Lock position under the following conditions to prevent falling of the implement :
 - When driving on a public road
 - When replacing the rotavator blade or removing straws and grass
 - When servicing the implement



This lever is used to lift and lower an implement to a certain working height freely and maintain it.

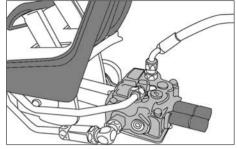
<Operation>

- Lifting implement Pull the lever back to lift the implement.
- Lowering implement Push the lever forward to lower the implement.

• When leaving the tractor, make sure to lower the implement and stop the engine.

Others may operate one of the controls, leading to a dangerous situation.

LOADER VALVE AND JOYSTICK

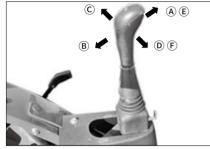


The tractor is equipped the hydraulic front loader valve for attaching the hydraulically driven implement such as front end loader.

The front loader valve is located on left hand side of transmission.

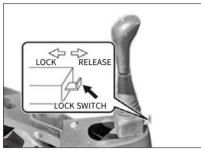
• Abnormal operation of a loader can lead to an accident.

Therefore, when connecting the hydraulic pipes, set the valve connection according to the operating directions specified on the label attached to the joystick lever.



<Joystick lever operating directions>

- FORWARD –
 Boom down (A)
 Floating (E)
- BACKWARD Boom up (B)
- LEFT Bucket up (C)
- RIGHT Bucket down (D) Bucket down fast (F)

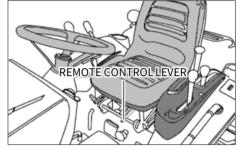


<Joystick lever safety device> There is a button to lock the operation of the joystick lever.

Pulling it forwards unlocks the lever while pushing it backwards locks the lever.

 Make sure to set the joystick lever in the neutral position and press the lock button to lock the lever in that position when the lever is not in use.
 Otherwise, an implement may fall accidentally by unintended operation of the lever.

REMOTE CONTROL LEVER



The hydraulic remote control valve can be equipped as option. The valve is used when attaching the implement operated by hydraulic cylinder.

The valves have male threaded . Use the remote control lever to operate implement.



- Make sure that remote control lever should be in neutral position while not in use of
- Failure to follow this instruction can result in serious damage of hydraulic components and engine.

REMOTE CONTROL VALVE



<How to engage coupler>

- 1. Clean the couplers on the tractor and implement thoroughly.
- 2. Remove the dust cover from the tractor side. Then, fit the male coupler on the implement side while moving its external ring backward slightly.
- 3. Pull the male coupler on the implement side backward slightly to check its firm engagement.

<How to disengage coupler>

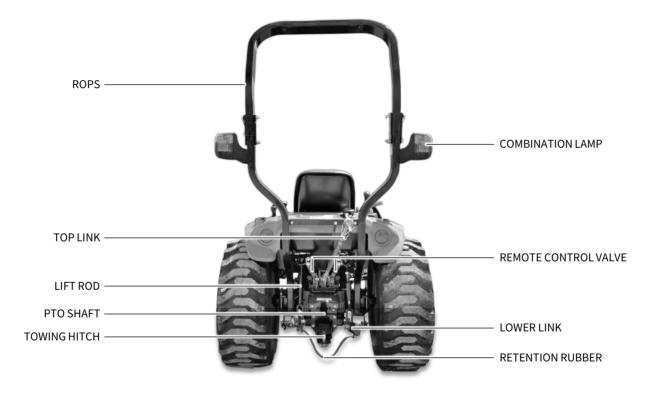
- 1. Lower the implement on the ground to release pressure in the hydraulic hose.
- 2. Stop the engine and operate the remote hydraulic lever to remove any residual pressure in the hose.
- 3. Disconnect the male coupler on the implement side while moving its external ring on the tractor side backward slightly.
- 4. Wipe oil and dust from the coupler and plug the dust cover.

- To prevent a burn and skin damage, make sure to stop the engine before connecting or disconnecting the coupler.
- Do not use your hands to check for oil leakage.



4. THREE POINT LINKAGE

► FIGURE OF THREE POINT LINKAGE



TOP LINK ADJUSTMENT



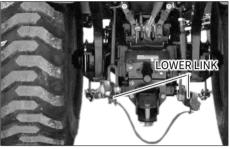
- 1. The angle of an implement can be adjusted by extending or retracting the top link.
- 2. After adjustment, fix the adjusting handle with its mounting nut.

► CHECK LINK



The check link can be adjusted to relieve vibration and shock of an implement.

LOWER LINK

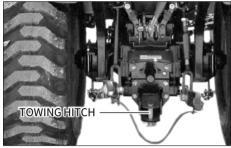


An implement can be attached to this. The installation type is category I.

IMPORTANT

- When no implement is attached, fix the lower links with the left and right check links so that they do not touch the rear wheels.
- Engage the top link with the hook.

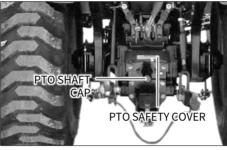
TOWING HITCH



Install only an implement applicable to this tractor.

- Make sure to use the towing hitch for towing to avoid rollover.
 Never tow anything by connecting a rope to the top link bracket, axle or safety frame.
- When using a rotavator that draws power through the universal joint from the PTO shaft, remove the towing hitch from the tractor. Otherwise, the universal joint hits and damages the towing hitch, leading to an accident.

PTO SHAFT CAP



When the PTO shaft is not in use, grease the PTO shaft and install the cap to it.

A DANGER

- If caught by the PTO shaft, a severe injury or even death can occur.
- Stay out of the PTO shaft while it is rotating.
- When the PTO shaft is not in use, place the cap over it.

Also, never remove the PTO safety cover.

- It is dangerous to use an implement at a high speed if it is designed to be operated at a low speed.
- Before using an implement, make sure to read its owner's manual.

SAFETY FRAME ROPS



The safety frame is intended to reduce damage of an accident in case of a rollover, so it cannot prevent an accident.

Always have the safety frame installed securely for driving to ensure your safety unless going under an area with a low ceiling such as a garage.

• If a rollover accident occurs without the safety frame, the frame cannot protect the driver, leading to a severe injury or even death.

Never drive with the safety frame detached.

MEMO·····

D. OPERATION

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1. START & STOP OF ENGINE

HOW TO START ENGINE



- 1. Make sure that there is no obstacle around the tractor.
- 2. Seat on driver's seat and confirm that parking brake is applied.
- 3. Check that each shift lever and PTO switches are in the neutral position.
- Insert the key into key switch and turn it to 「ON」 position. Check that warning lights are working and come off.
- 5. Turn the key switch to the 「START」 position.

When engine is started, release the switch.

6. Ensure that all warning lamps go off.

IMPORTANT

- Never turn the key to <code>「start」</code> position while engine is running as this can cause serious damage to starter and engine flywheel.
- Avoiding running the start motor over 10 second.
 - It consumes lots of current.
- If engine cannot be started within 10 second, wait for 30 second and try it again.
- Especially in cold weather, always allow the tractor to idle for a while to warm up and build up for a while to warm up and build up sufficient oil pressure to ensure normal operating temperature for longer engine life.

• Never start engine by connecting start motor terminal or safety switch directly. The tractor may move suddenly and cause an accident.

PRINCIPLE OF AUTO PREHEATING SYSTEM



When key switch is in <code>FONJ</code> position, engine is automatically preheated as necessary.

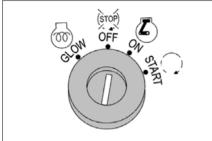
Glow lamp is on as well.

As soon as preheating operation is completed, the lamp also goes off.

Engine can be started while the preheating operation is in progress.

OPERATION 🛃

STOPPING ENGINE



- 1. Idle engine before stopping it.
- Turn the key switch to 「OFF」 position.
- 3. Remove key from the switch.

IMPORTANT

- Do not stop the engine at a high speed.
- If the engine has been running for an extended period of time, stop the engine only after idling it for 5 to 10 minutes.

► ENGINE IDLING

After starting engine, idle engine for 5 ~ 10 minute so that oil is delivered to each part of engine.

(🖬 IMPORTANT

- If the engine is loaded right after it is started, it may cause engine stalling and failure. Make sure to idle the engine first.
- If neglecting to idle the engine, it can cause:
 - ✓ Seizure of the hydraulic pump
 - ✓ Failure in the hydraulic system.

- Make sure to apply the parking brake while idling the engine.
- Never idle the engine in a poorly ventilated area. It can cause carbon monoxide poisoning by emissions.

IDLING IN COLD WEATHER

Hydraulic oil in this vehicle is also used as transmission fluid.

If the temperature drops in winter so oil gets cold, its viscosity rises and the hydraulic pump cannot suck oil in, causing malfunction.

Make sure to idle the engine in winter according to the following instructions.

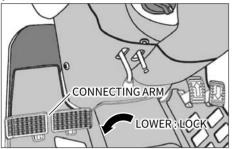
TEMPERATURE	TIME
32°F or higher (0°C or higher)	more than 10 min.
32°F ~ 14°F (- 0°C ~ - 10°C)	10 ~ 20 min.
14°F ~ - 4°F (- 10°C ~ -20°C)	20 ~ 30 min.
- 4°F or less (- 20°C or less)	more than 30 min.

(🛕 WARNING

• Proper ventilation is needed when engine idling is performed indoors.

2. OPERATING TRACTOR

STARTING OFF



- Confirm that left and right brake pedals are interlocked when two brake pedals are installed.
 Make sure to interlock left and right brake pedals unless working in a field.
- 2. Lift an implement.
- Place main and sub shift lever into the desired position while depressing clutch pedal.
- 4. Depress brake pedal to release parking brake.
- 5. Use throttle lever or pedal to increase engine speed.

SHIFTING AND DRIVING

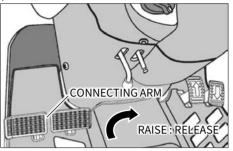
To shift during driving, depress the brake pedal to stop the vehicle in advance.

- The driving speed in the reverse direction is almost the same to the speed in the forward direction. Make sure to check the surroundings carefully when driving backward.
- Especially, never drive backwards with the sub shift lever in the position high speed.

The driving speed becomes faster and it can cause an accident.

• Connect the left and right brake pedals when it is about to drive when two brake pedals are installed.

TURNING IN FIELD



When two brake pedals are installed.

- 1. To turn in a field, release hook for left and right brake pedals.
- 2. Turn steering wheel and depress brake pedal for desired direction.
- 3. While turning, keep engine speed low and turn slowly.

When single brake pedal is installed. Turn steering wheel to desired direction.

- Avoid turning at a high speed. The tractor can fall on its side.
- When the tractor is installed with an implement, its overall length becomes large. Be extra care with other people and objects around when turning.

OPERATION 🛃

PARKING THE TRACTOR

- 1. Stop tractor completely in level ground.
- 2. If an implement is attached to vehicle, lower it.
- 3. Set levers in neutral position.
- 4. Apply parking brake.
- 5. Remove key from key switch.

- After parking, make sure to apply the parking brake.
- Avoid parking on a slope if possible. If it is absolutely necessary to park on a slope, chock the rear wheels.

START ON STEEP SLOPE

- 1. Depress the brake pedals.
- 2. Place sub shift lever in the low speed position.
- 3. Set engine at the mid speed with the throttle lever.
- 4. Depress the throttle pedal or use throttle lever to increase engine revolution.
- 5. Release the brake pedal at the same time.

► TIPS FOR DRIVING ON SLOPE

- 1. Set range shift lever in low speed position on a slope to prevent engine from stopping.
- 2. Keep driving speed low on a downhill road.
- 3. Do not set sub shift lever in neutral position on a downhill road.

IMPORTANT

 When the needle on the coolant temperature gauge is pointing at [¬]H_J or coolant lamp comes on, engine is overheated.

If running the engine under this condition continuously, the engine parts can be severely damaged. Make sure to take an appropriate action immediately.

- On a downhill road, use the engine brake.
 Otherwise, it can cause an accident.
 - D 🛛 5

CAUTIONS FOR DRIVING INTO OR OUT OF FIELD

- 1. Check that left and right brake pedals are connected.
- 2. It is dangerous to drive into/out of a field if the field is deep from its bank. Use ramps.
- 3. Move in the perpendicular direction to the bank.
- 4. When driving out of the field, lower the implement so that the front wheels cannot be lifted.
- 5. It is recommended to drive into a field backward to utilize full power.

- Be careful to keep the tractor's balance when working on a slope. The tractor may become out of balance and roll over.
- It is very dangerous to ride a person as a front weight.

LOADING TO OR UNLOADING FROM TRUCK

- 1. When loading the tractor onto a truck, drive backward.
- 2. Be extra careful when using ramps.
- If the engine stops on ramps, depress the brake pedals immediately and release them slowly to move onto the ground. Then, start the engine again to climb the ramps again.

CAUTIONS FOR DRIVING ON ROAD

- 1. When changing the direction on a road, use the turn signal lamp to inform other drivers.
- 2. Use the low beam when there is any vehicle coming on the other side at nighttime.
- 3. Check that the left and right brake pedals are connected.
- 4. Keep the work lamps off when driving at night.
- 5. Follow any applicable laws and keep safe driving.
- 6. Never let anyone ride the tractor, except yourself as a driver.

• If driving on a road with an implement attached, the front side of the tractor tends to be lifted and vehicle may not be steered properly.

OPERATION 🛃

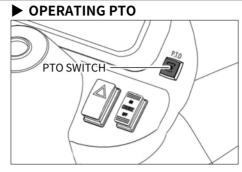
3. OPERATION OF PTO

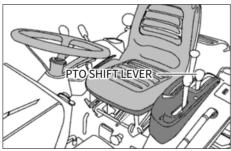
Rear PTO is provided for variable utility. The engine will not start if PTO switch is ON position.

The engine will shut-off if the operator leaves the seat with parking brake released and PTO engaged.

РТО	PTO speed					
REAR	540 RPM					
MID (OPTION)	2,000 RPM					

- To avoid damage of transmission and implement, do not engage PTO with the engine running at high speed.
- Do not operate any implement at a high speed than is specified for it.
- When making adjustments to the implement, stop the engine to avoid serious injury.
- When leaving the tractor stop the engine and remove the key. Apply parking brake.

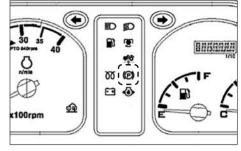




Follow next steps to use PTO.

- 1. Decrease engine speed to near idle.
- 2. Change PTO shift lever to desired position.
- 3. Turn on the PTO switch.
- 4. Increase engine speed to desired speed.

PTO LAMP



D

PTO monitor lamp indicates the state of the PTO shaft.

- If the PTO lamp glows: The PTO is rotating.
- If the PTO lamp blinks: The PTO is stopped but will rotates when a implement is raised. (option)
- If the PTO lamp is off: The PTO is off.

PTO ROTATION TABLE

PTO SWITCH	PTO SHIFT LEVER	POSITION OF IMPLEMENT	PTO LAMP	PTO SHAFT ROTATING	
OFF	N	/A	OFF	OFF	
N/A	OFF	N/A	OFF	OFF	
ON	ON	RAISED	BLINK	OFF	
ON	ON	LOWERED	ON	ON	

- From the table above we learn about the safety features of the PTO.
 When the monitor on the dash panel is blinking it indicates to the operator that the PTO is in the on position but temporarily not rotating because the implement is lifted off the ground or both. The PTO will start rotating instantaneously when the implement is lowered to the ground.
- The operator must use this blinking signal to clear the area around the tractor off bystanders/onlookers as the rotating blades of certain implements can accidentally cause injuries to the persons standing near the tractor.
- The stopping of the PTO when the implement is lifted off the ground with the position control prevents the damage to the implement or the PTO shaft.

N/A : not applicable

- When the PTO mode switch is in manual position the PTO does not stop rotating. If working on hard soils, pavements with a rotary implement the PTO ON/OFF switch must be put to the OFF position to stop the PTO from rotating. If this is not done, the rotating blades of the implement will push on the hard ground below and in turn push the tractor toward causing accident which can lead to serious injuries or death.
- Extra precaution must be taken to clear the area of bystanders/onlookers when using PTO driven implements. The rotating blades of the implements can cause serious injuries on contact. The warning that is indicated by the blinking PTO monitor is to make the operator aware that the PTO is in on position and will instantly start rotating if the implement is lowered or both.
- In no case the specified rotating speeds indicated by the implement manufacturer be crossed as the same can lead to serious damage to the tractor/equipment and can lead to serious injuries to persons around.

4. IMPLEMENTS

CONNECTION TO IMPLEMENTS

- 1. Make sure to stop the engine before connecting the implements.
- 2. Move the double acting valve lever forward and backward for 4 to 5 times to release pressure in the hydraulic line of tractor. Otherwise, it is hard to connect the couplers, and hydraulic fluid can be sprayed from the line and get in to your eyes while connecting them.
- Remove any foreign material around male and female couplers. If foreign material enters the hydraulic components, it can lead to malfunction of the system.
- Open dust-proof cover of female coupler of the tractor and insert the male coupler of the implement. A clicking sound is heard when the couplers are engaged.
- 5. Pull the hydraulic hose of the implement to check that the couplers are properly connected.
- ※ Hydraulic control valves may not exist depending on tractor model.

DISCONNECTION FROM IMPLEMENTS

- 1. Make sure to stop the engine before disconnecting it.
- 2. Release any residual pressure in the hydraulic hoses of the implement and tractor by operating the double acting valve lever 4 to 5 times.
- 3. Remove any foreign material around the couplers.
- Keep the implement balanced by removing any load applied (lowering it onto the ground, for example).

If disconnecting the hose while outer load is applied to the implement, it is hard to connect the implement in the future.

- 5. Remove the male coupler by pushing the female coupler boss of the tractor backward.
- Close the dust-proof cover of the female coupler of the tractor.
 Wrap the male coupler of the implement with a plastic bag to prevent contamination.

MOUNTING IMPLEMENTS

If the PTO is used, remove the safety cover off the PTO shaft.

Adjust the yoke rod on the lower links to suit the implement in use.

Attach the left lower link, then attach the right lower link using the adjusting handle on the leveling box if required. Attach the top link.

Attach PTO shaft to the tractor if used, making sure that it is locked in place. Adjust the check chains to suit the implement and tighten the locknuts.

• Never connect or disconnect the implement hydraulic hose while the pressure in it is not released or the engine is running.

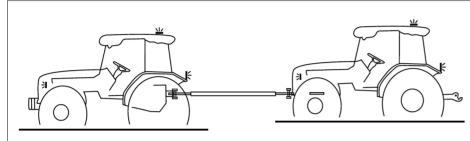
It's hard to connect and disconnect the hose and hydraulic fluid can be sprayed from the hose, and get into your eyes or skin.

• stop engine and wear protective glasses and gloves before work.

OPERATION

5. TOWING THE TRACTOR

► TOWING THE TRACTOR



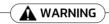
The tractor can be towed only for short distances, such as, for example, from inside to outside a building.

A broken down tractor should be towed for the minimum indispensable distance to remove it from potentially dangerous conditions.

Observe all legal provisions as envisaged in the highway code relative to national legislation regarding towing manoeuvres.

A DANGER

 NEVER permit other persons to access the tractor operator position during towing.



 We recommend transporting the tractor on a low loader in the case of longer transport distances.
 Comply with the maximum width and height regulations for road transport.
 Check that the loader is suitable for the weight of the tractor to be transported.

• An operator must always be at the tractor's controls when the tractor is being towed.

TOWING WITH ENGINE RUNNING

Towing with the engine running can be performed if forced gearbox lubrication is ensured:

- Engine speed between 1,200 1,300 rpm.
- Maximum towing speed 8km/h
- Maximum towing distance 1km

For towing the tractor use only a standard bar applied to the front towing hitch approved by the manufacturer. Make sure to use the correct pin for the towing hitch and that it is secured with its locking pin.

Clean all lights required for road use, front and rear, and make sure they are in working order.

Before starting towing check the following conditions:

- Unhitch any implement from the tractor;
- Lock the two brake pedals together with the connecting latch;
- Disengage the power take-off and differential locks;

TOWING WITH ENGINE OFF

With engine stopped and with forced gearbox lubrication system inoperative the tractor should not be towed except when safety is at risk.

IMPORTANT

• With engine stopped and with forced gearbox lubrication system inoperative the tractor can be transferred to a service center only when loaded onto a transporter.

- Set the shuttle control lever and gear Travel species ever to neutral; allow com
- Move the sub shift lever to the high speed position;

٠

- Move the creeper lever to neutral;
- Display the SMV (Slow Moving Vehicle) sign and turn on the rotating beacon and hazard lights

During road transfers observe the following instructions:

• Wait until traffic thins before joining the road.

Exert caution in the proximity of unregulated intersections. Slow down until you have a clear view in both directions.

- Keep in your lane and drive as close as possible to the curb.
- If a tailback builds up behind you pull into a lay-by as soon as possible to allow the traffic to pass
- When stopping the tractor (in any circumstances) apply the parking brake.

Travel speed must always be such as to allow complete control and stability of the tractor in all conditions.

DANGER

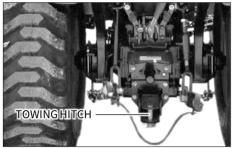
• Never attempt to tow the tractor with ropes (including steel ropes) because rope breakage can cause serious injury.

🛕 WARNING

 Switch on the hazard warning lights and revolving warning lights.
 Affix suitable notices indicating that the tractor is being towed.
 Observe and follow the relevant national regulations.
 Observe local safety regulations.

6. TOWING DEVICES

TOWING HITCH



Towing hitch is available to towing devices.

DANGER

- Only use trailer hitch to tow and keep the 3 point linkage in raised position when towing with the drawbar.
- Position can create unbalance causing the Tractor to roll-over & Result the death or serious injury.

• All the implements mounted on the tractor must be secured firmly and in accordance with the manufacturer's instructions; see attachment holes diagram.

Use permitted devices only.

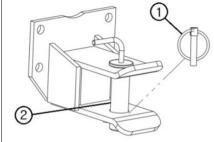
- The front towing hitch should be used for emergency trailer towing or for towing the tractor in the yard or in an authorized service center.
- When towing, always secure the hitch pin with a suitable lock pin with safety clip to prevent the hitch pin coming out the hitch.

The lock pin must always be secured to the hitch.

- The maximum permissible hitch load (horizontal and vertical), the maximum permissible hitch height for road.
- Use and the maximum trailed load are indicated in the tractor registration document.

- Never tow semi-mounted implements, trailers or agricultural machines by attaching them to the top link of the three-point linkage. This could cause the tractor to rear up or overturn backwards.
- Do not allow anyone to ride on the drawbar or the lower links when the tractor is in motion.

▶ IMPLEMENT HITCHING AND UNHITCHING



To hitch an implement to the drawbar, proceed as follows.

- 1. Remove lock pin ①
- 2. Remove pin ②
- 3. Reverse the tractor slowly up to the implement
- 4. Insert pin 2
- 5. Insert lock pin \bigcirc

DRAWBAR TYPE	MAX. HORIZONTAL LOAD	MAX. VERTICAL LOAD	REAR TIRE			
T-CC1	3,000kg	300kg	9.5 – 20 8PR (AG) 36x13.5 – 15 4PR (TURF) 12 – 16.5 6PR (IND)			

Technically permissible towable masses

TOWING TYPE	MASS
UNBRAKED TOWABLE MASS	500kg
INERTIA-BRAKED TOWABLE MASS	3,000kg
TOWABLE MASS WHEN FITTED WITH HYDRAULIC OR PNEUMATIC BRAKING	N/A

D

7. CHECKS DURING DRIVING

CHECK DURING DRIVING

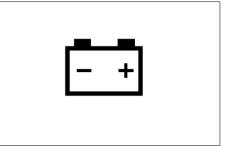
Constantly monitor the warning lamps on the monitor panel and if any comes on, stop the tractor to determine the cause.

• OIL PRESSURE

If the oil pressure lamp comes on check the oil level first of all.

If the oil level is OK, ask a qualified dealer to check the reason for the lamp coming on.

BATTERY CHARGING



If the alternator warning lamp comes on check all connections and ensure that the fan belt is not broken. If all connections and the fan belt are intact consult your dealer to determine the cause of the problem.

OPERATION

FUEL GAUGE



To avoid excessive condensation in the fuel tank refill at the end of each day's work and ensure during the day that it does not drop to a low level where the fuel system will require bleeding to expel air in the system after refilling the tank.

COOLANT TEMPERATURE

If the coolant warning lamp comes on, the engine is over-heated.

Stop the tractor and check followings:

- Radiator coolant
- Radiator fin for clogging
- Fan belt for looseness

If necessary, have your tractor checked by workshop.

DANGER

• Allow the engine to cool down before opening radiator cap as serious burns may result due to hot steam and boiling water.

P OPERATION

8. WORK PROCEDURES

PRECAUTIONS FOR HANDLING IMPLEMENTS

- 1. When driving the tractor to attach or detach an implement, make sure that there is no one in between or around the tractor and implement.
- 2. Install and remove the implement only on safe and level ground.
- 3. When installing a heavy implement, install weight on the front to keep balance.
- 4. When adjusting an implement, apply the parking brake, stop the engine and set the PTO switch in the OFF position in advance.
- 5. To tow anything, use the towing hitch only.
- 6. When working with a front loader, install an implement to the back to keep balance (if necessary).

- Read instructions on warning decals on each implement thoroughly before work.
- To avoid an injury due to mishandling of an implement, read the user's manual of the implement thoroughly and work safely and precisely with caution.
- Installation of an improper implement can lead to an injury. Install only implements specified by the manufacturer.

GENERAL IMPLEMENT

<Safety precautions for rotavator>

Never remove the safety cover of the rotavator.

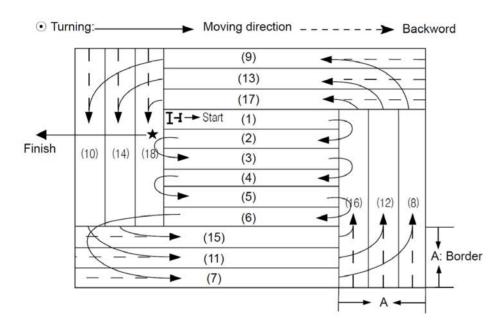
Do not remove the PTO shaft cover and safety cover on the universal joint. When adjusting each part, disengage the PTO and stop the engine in advance. When driving on a road, keep the PTO disengaged.

Also, keep the rotavator lowered on a road as long as it does not hit the ground.

For the universal joint, its inner shaft and outer shaft should be overlapped at least 15 cm.

Check that the universal joint is firmly fixed to the tractor and rotavator shaft.

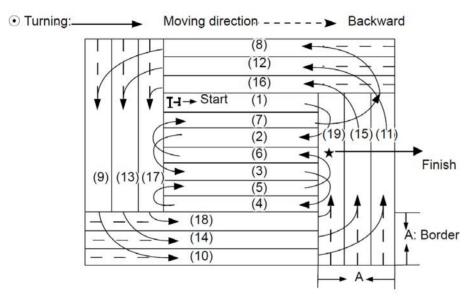




- 1. Sequential returning plowing pattern
- This pattern can be useful in a wellplanned field in a good condition.
- The border shown in the figure is the effective plowing width of the rotavator and should be set a little narrower than three times of one plowing width.
 - The starting point is the ending point.
- Plow in a sequential pattern from (1) to (6) and in a circular pattern from (7) to (18).
- When driving forward to plow, have the bank on the right side.
- Be careful not to press already plowed soil with the wheels.

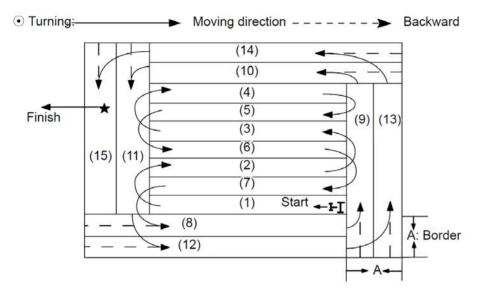
•

OPERATION



- 2. Alternating returning plowing pattern
- This pattern is useful for narrow or short fields or poorly planned fields in which are not easy to turn.
- In the figure, the plowing width for (1), (2), (3) and (4) should be overlapped with the one for (5), (6) and (7) for approx. 10 cm.
- For the sections (1) to (7), perform plowing in an alternating pattern. For the sections (8) to (19), plow in a circular pattern.
- Refer to the sequential returning pattern for other details.

OPERATION 🔗

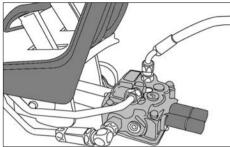


3. Land leveling pattern

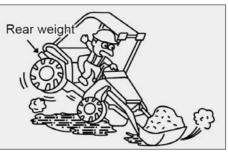
- The land leveling work may be performed after crushing soil or not.
- The vehicle speed can be set faster when performing the land leveling work with soil crushed already.
- When working in a wet field, fill the field with a sufficient amount of water so that the trace of plowing cannot be seen.
- The border shown in the figure should be set a little narrower than two times of one plowing width.
- Refer to the alternating returning pattern for other details.



FRONT LOADER



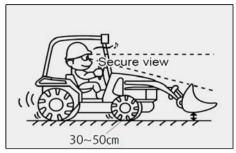
- When connecting the hydraulic pipes, set them according to the operating directions specified on the label attached to the side of the joystick lever.
- Abnormal operation of a loader can lead to an accident.



Keep the balance between the front and rear by installing a weight to the back of the tractor or attaching a weight or implement using the 3-point link.

🕻 🗖 IMPORTANT

 If it is hard to steer the tractor for plowing as the front wheels are lifted, install additional weight to the front. (if no loader is installed.)

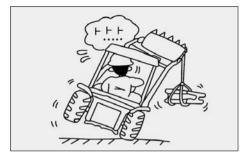


When transporting things with a loader, lower the loader and keep the driving speed slow.

Keep the loader 30 to 50 cm off the ground and the driving speed below 5 km/h.

When going onto a slope or unpaved area, lower the speed and drive with care.



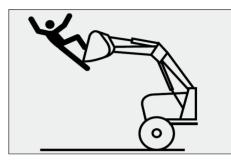


Do not lift anything only with one side of the tractor. If so, the tractor may fall on the tractor.

Make sure to distribute the load evenly.

its side.

Keep the clearance between the rear wheels as large as possible for safety of



WARNING

- Do not let anyone ride a loader for work, • such as spreading fertilizer. He/she may fall off the loader, leading to an injury or even death.
- Always lower the loader to the ground ٠ before leaving the tractor.

IMPORTANT

This chapter only provides brief ٠ descriptions and instructions for a rotavator and loader. Therefore, for detailed operational instructions and other descriptions, refer to the user's manual of each implement.

D

9. OPERATION TIPS

To save fuel & oil in your tractor, following things should always be kept in mind.

► AIR CLEANING SYSTEM

- 1. Clean the air cleaner regularly so that dust does not settle down.
- 2. For every 50 hours & every day in sandy/dusty conditions.
- Clean the air cleaner filter element with compressed air.
- If the rubber ring is cut or expanded then change it with an appropriate one.

Fix the rubber at the proper location & check for leakages if any.

• If air is leaking through the hose connection, check & rectify other leakages, too.

 If air cleaning system is not properly maintained, it will lead to early wear of piston rings & sleeves.
 This will lead to problems like loss of engine power, excessive oil consumption fuel consumption.

ENGINE

- 1. Put the engine oil on load after the engine is heated & the water temperature gauge indicates the needle to be in the green zone.
- 2. If excessive black smoke is visible, then the paper element of air cleaner, Fuel injection pump or nozzles should be checked.
- Do not run the engine without load for more than 2 minutes. It is better to stop the engine rather than run it idle.

This will help in saving of fuel.

OPERATION 5

BRAKE

- 1. If the tractor has to be stopped for a long period, it is advisable to bring the transmission in neutral position.
- 2. Do not override the brake pedals.
- 3. While coming down from a slope, reduce the engine throttle & use low gear.

Do not depend only on the brakes for stoppage.

► OIL SYSTEM

- 1. Always use recommended grade of oil.
- 2. Everyday before starting the engine, check the oil level with a dipstick & refill between the minimum & maximum level.
- Charge the engine oil. Replace filter & O-ring, as & when required.

LUBRICATING OIL

• GENERAL

Modern diesel engines place very high demands on the lubricating oil to be used. The specific engine performances which have increased constantly over the last few years lead to an increased thermal load on the lubricating oil. The lubricating oil is also more exposed to contamination due to reduced oil consumption and longer oil change intervals. For this reason it is necessary to observe requirements and recommendations described in this operating manual in order not to shorten the life of the engine. Lubricating oils always consist of a base oil and an additive package. The most important tasks of a lubricating oil (e.g. wear protection, corrosion protection, neutralization of acids from combustion products, prevention of coke and soot deposits on the engine parts) are assumed by the additives. The properties of the base oil are also decisive for the quality of the

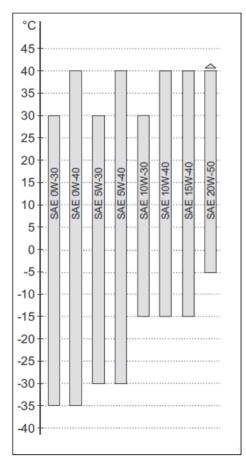
product, e.g. with regard to thermal load capacity. In principle, all engine oils of the same specification can be mixed. However, mixing of engine oils should be avoided because the worst properties of the mixture are always dominant.

VISCOSITY

The ambient temperature at the installation site or in the application area of the engine is decisive for choosing the right viscosity class. Too high a viscosity can lead to starting difficulties, too low a viscosity can endanger the lubrication effect and cause high lubricating oil consumption. The viscosity is classified according to SAE. Multipurpose lubricating oils should be used basically.

IMPORTANT

• The prescribed lubricating oil quality must be observed when selecting the viscosity class.



- 1. Always use filtered diesel for the fuel system.
- 2. At the end of the day's working, it is preferable to fill the diesel tank so that it may prevent condensation.
- 3. Change the filter, if the system gets choked.

Do not change both the filters at the same time.

If the above directives are not adhered to, the fuel injection pump & injection nozzle will lose its life early.

Also, it will lead to excessive black smoke & excessive diesel consumption.

OPERATION

WINTER OPERATION WITH DIESEL FUEL

Special demands are placed on the cold behavior (temperature limit value of the filterability) for winter operation. Suitable fuels are available at filling stations in winter.

At low ambient temperatures paraffin discharges can lead to blockages in the fuel system and cause operating faults.

IMPORTANT

• For engines with common rail injection, the mixing of petroleum and adding of extra low additives is not permissible.

► COOLING SYSTEM

- 1. Check the fan belt tension regularly. Adjust, If required.
- 2. Check the coolant level in the radiator fins always clean.
- 3. Replace the radiator cap with a genuine cap only, if required.
- 4. Do not remove the thermostat but replace with a new one, if required.
- 5. Do not change the radiator water often.

OTHERS

In liquid-cooled engines, the coolant must be conditioned and monitored, otherwise the engine could be damaged by:

- Corrosion
- Cavitation
- Freezing
- Overheating

► OPERATING TIPS FOR POWER STEERING WHEEL

- Operate the power steering wheel only while the engine is running. You may feel the steering wheel heavier with a low engine speed.
- When an implement, such as a loader, is attached to the front, the steering wheel may be felt heavy with the tractor stopped.
 If so, operate the steering wheel while driving the tractor at a low speed.
- 3. When the steering wheel is completely turned to one end, the safety valve is activated to output the audible signal (relief sound). When this sounds, avoid using the steering wheel (O.K. only for a short time).

Also, never turn the steering wheel completely continuously.

- 4. Turning the steering wheel to its end unnecessarily (with the tractor stopped) can wear tires rapidly.
- 5. In winter, warm up the engine sufficiently before use.
- 6. When repairing components, such as a pipe, make sure that no foreign material enters the system.
- 7. The steering wheel can be operated with a small amount of force. Therefore, operate it with care and keep your hands on it at all times.

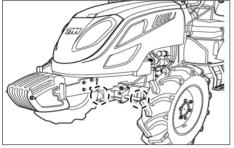
🛕 WARNING

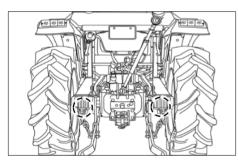
 Releasing the steering wheel during driving can result in a collision and rollover.
 Never release the steering wheel during driving.

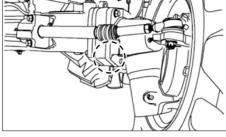
OPERATION 🛃

10. HOW TO USE OF THE JACKS

JACK POINTS







- If the tractor must be lifted for servicing, take it to a suitably equipped workshop.
- Carry out the following operations before any operation about the tractor.

Engage the four-wheel drive, the first gear and the parking brake and put chocks to the wheels touching the ground.

- Before lifting the tractor, avoid its swinging by means of wooden wedges applied to the front axle
- Use jack lifts of suitable capacity and apply them at the center of the front and rear axles and paying due attention to weight distribution.

 No decals for the lifting point are applied on the tractor, as they would be, too difficult to apply in the available spaces and would be all too easily removed or effaced during normal operation of the tractor.

IMPORTANT

 Apply the jack lift to the lifting points according to the type of operation and following the safety procedures given before.

MEMO·····



E. MAINTENANCE

1.	MAINTENANCE SCHEDULE ·······E – 2
2.	OPENING COVERS ······ E – 4
З.	CHECKS & SERVICING EACH PART······E – 5

- 4. GREASING EACH PART $\cdots E = 20$
- 5. STORING THE TRACTOR $\cdots E = 21$

1. MAINTENANCE SCHEDULE

PERIODICAL CHECK AND SERVICE SCHEDULE TABLE

Check or adjust each part only when engine is stopped.

When any hot part should be serviced, wait until it is cooled down.

TIME OF USE YEAR REMARK INSPECTION PART 200 500 550 50 100 150 250 300 350 400 450 1 2 FNGINE OIL LEVEL CHECK ENGINE OIL LEVEL BEFORE WORK **ENGINE OIL & FILTER** \star EVERY 250HR OR 1 YEAR • FUEL FILTER FULE HOSE & BAND \bigcirc **EVERY 2 YEAR** AIR CLEANER ELEMENT \wedge \wedge \wedge \wedge EVERY 500HR Е AIR CLEANER HOSE & BAND \bigcirc **EVERY 2 YEAR** Ν G **INLET HOSE & BAND** \bigcirc **EVERY 2 YEAR** Т COOLANT **EVERY 2 YEAR** Ν Е COOLANT LEVEL CHECK COOLANT LEVEL BEFORE WORK CHECK BEFORE WORK **RADIATOR & RADIATOR NET** CLEAN RADIATOR & RADIATOR NET BEFORE WORK **CLEAN BEFORE WORK RADIATOR HOSE & BAND** \bigcirc **EVERY 2 YEAR** FAN BELT & A/C BELT 0 \bigcirc 0 \bigcirc \bigcirc IF IT IS NEEDED BATTERY \bigcirc \bigcirc \bigcirc \bigcirc 0 IF IT IS NEEDED

•: Replace

★ : Replace at first time only

 \bigcirc : Check \cdot Add \cdot Adjust

 \triangle : Clean

•: Replace

Check or adjust each part only when engine is stopped.

When any hot part should be serviced, wait until it is cooled down.

 \bigstar : Replace at first time only \triangle : Clean

 \bigcirc : Check \cdot Add \cdot Adjust

		TIME OF USAGE									DEMADIZO			
	INSPECTION PART	50	100	150	200	250	300	350	400	450	500	550	600	REMARKS
	TRANSMISSION FLUID	*					•					•		REPLACE EVERY 250 HOUR OR 1 YEAR AFTER 1 ST 50 HOUR
	HYDRAULIC OIL FILTER	*					•					•		
	FRONT AXLE OIL	*					•					•		
С	TOE-IN	GET SERVICED BY WORKSHOP EVERY 300HR										2 ~ 6mm (0.078 in. ~ 0.236 in.)		
H A	GREASING EACH PART		ADD EVERY 50 HOUR, DAILY IF WORKING IN WET FIELD											
S S	BRAKE PEDAL PLAY	(CHE	CHECK FREQUENTLY BEFORE DRIVING (CHECK SIMULTANEOUS OPERATION OF LEFT AND RIGHT BRAKE PEDALS)										PLAY:30~40mm (1.18 in.~1.57 in.)	
S	TIGHTNESS OF FRONT & REAR WHEELS		CHECK FREQUENTLY BEFORE DRIVING											
	ADJUSTING THROTTLE SYSTEM						0						0	
	RUBBER HOSES					0					0			
	CHECKING ELECTRIC WIRING	0			0			0			0			EVERY YEAR

※ Recommended Transmission oil

- RPM Tractor Hydraulic Fluid or Textron TDH Premium (CALTEX)
- TDH Oil or TDH Oil special (TEXACO)
- Chevron 1000THF (CHEVRON)

2. OPENING COVERS

OPENING HOOD

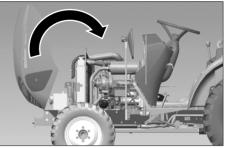


 Pull up the hood open lever. Then, the hood opens with a clicking sound.



2. Lift the hood with hands. Then, the hood is automatically opened and fixed by its damper.

CLOSING HOOD



Push the hood back to the dash board until it is locked.

3. CHECKS & SERVICING EACH PART

► INSPECTION ITEMS

To prevent any possible failure, some items should be checked daily.

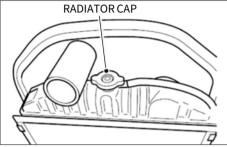
Make sure to perform inspection before driving.

Inspect each part in the following order:

- 1. Check the items that were faulty yesterday.
- 2. Go around the tractor and check:
- Lamps for proper illumination and damage
- Tires for inflation pressure, crack, damage and wear
- Rotating parts for loose bolts and nuts
- Transmission fluid level
- Implement attachment status
- 3. Open the hood and check:
- Engine oil level
- Coolant level
- Fan belt for looseness and damage

- Sit on the driver's seat, turn the main switch to the 「ON」 position and check:
- Fuel gauge for proper operation
- Fuel level
- Engine oi l and charge warning lamps for blinking operation
- Turn signal lamp
- Horn operation
- Brake pedal free play
- 5. Start the engine, drive the tractor slowly and check:
- Emission color
- Brake pedal operation
- One brake pedal operation
- Steering wheel for heaviness and vibration
- Coolant gauge operation
- Hydraulic operation of 3-point link

ENGINE COOLANT INSPECTION AND CHANGE



<Inspection>

Open the radiator cap and check that the radiator is filled with coolant up to its filler inlet.

If the coolant amount is insufficient, add more coolant.

WARNING

• Do not open the cap when the engine is hot.

Otherwise, hot steam can burn you seriously.

Wait until the engine is sufficiently cooled down.



<Change>

- 1. To drain coolant, open the drain cock and radiator cap as well for faster draining.
- 2. Wash the inside of the radiator with clean water thoroughly.
- 3. Fit the drain cock and add coolant.
- 4. Start and idle the engine for approx. 5 minutes.

Then, check coolant in the reservoir tank and add more coolant as necessary. If coolant freezes, the engine can be damaged.

- Clean the radiator thoroughly before adding antifreeze.
- The mixture ratio of antifreeze is different by manufacturers and temperature.

Refer to the manufacturer's manual.

- Mix antifreeze with water sufficiently before adding it.
- Adding antifreeze
 - If evaporated :

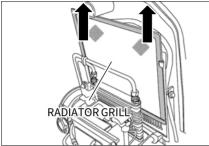
Add water for the reduced amount. - If leaked :

Add mixture of antifreeze and water with the same mixture ratio.

 If engine coolant gets on your skin, it can irritate the skin and cause a skin condition.

Make sure to clean your skin with soap and water or hand cleaner thoroughly.

CLEANING RADIATOR



When working in a grassy field or working at night, the radiator or condenser grille may be clogged by grass, straws or bugs, reducing cooling performance.

In this case, pull the radiator grill up and clean it with low pressure air or clean water.

If dust is stuck between the fan and tube, flush the area with clean water.

IMPORTANT

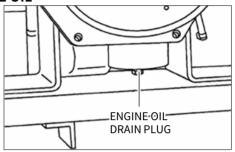
- Do not clean the radiator fin with water jet.
 - It can deform the fin.

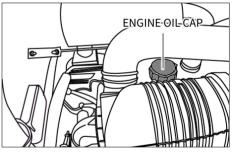
CHECKING AND CHANGING ENGINE OIL



<Inspection>

- 1. Park tractor on level surface.
- 2. Check the engine oil when engine is cool enough.
- 3. Pull out the dipstick, wipe it clean and dip in the oil sump.
- 4. Ensure that oil level is near the upper mark between the upper and lower mark.
- 5. If too low, add oil through the oil filler cap, but never excess 100 hours of service interval.





<Changing>

- 1. Park tractor on level surface, shutoff engine.
- 2. Open the hood.
- 3. Remove the drain plug from the bottom of the oil pan and allow the oil to drain.
- 4. Replace and install the sump plug.

Π

- 5. Fill the engine oil to the correct level on the dipstick.
- 6. The grade of oil to be used will depend on ambient temperature.

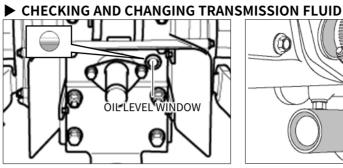
• If engine oil gets on your skin, it can irritate the skin and cause a skin condition.

Make sure to clean your skin with soap and water or hand cleaner thoroughly.

 Make sure to cool down the engine sufficiently before draining oil.
 Oil is very hot and can cause a burn if changing oil right after the engine is stopped.

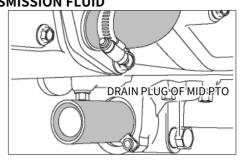
IMPORTANT

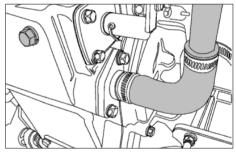
- Do not add engine oil over the upper limit level.
- Check the engine oil before starting the engine or at least in 5 minutes after the engine is stopped.
- When trying to use new oil from a different manufacturer or oil with different viscosity, drain used oil completely before adding new oil.



<Inspection>

- 1. Park tractor on level surface.
- 2. Lower the implements to ground.
- Shutoff engine. Allow transmission oil to cool enough.
- Check the level with the sight window on rear side of the transmission in rear of the seat. If the level is low add oil through the filler hole.





<Change>

- 1. Park tractor on level surface.
- 2. Lower the implements and shutoff engine.
- 3. Remove the drain plug at bottom of the transmission case (and drain plug at the side of mid PTO case in case that mid PTO is installed).

- 4. Drain the oil completely into container.
- 5. Loosen the hose clamp and detach the hose from the strainer.
- 6. Remove the bolt and remove the strainer.
- 7. Clean the strainer.
- 8. Reinstall the strainer, bolt and hose.

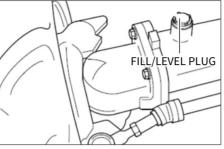
• If transmission fluid gets on your skin, it can irritate the skin and cause a skin condition.

Make sure to clean your skin with soap and water or hand cleaner thoroughly.

IMPORTANT

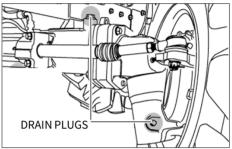
- Do not add fluid over the upper limit level.
- Check the fluid before starting the engine or at least in 5 minutes after the engine is stopped.
- When trying to use new fluid from a different manufacturer or fluid with different viscosity, drain used fluid completely before adding new fluid.

CHECKING AND CHANGING FRONT AXLE OIL



<Inspection>

- 1. Park tractor on level surface.
- 2. Lower the implements and shutoff engine.
- 3. Remove the oil cap.
- Wipe the dipstick on oil cap. Dip and screw the oil cap into the front axle.
- 5. Unscrew oil cap and pull out.
- 6. Check the level with the dipstick.
- 7. If the level is low add oil through the filler hole.



<Change>

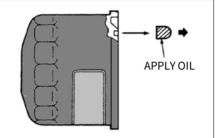
- 1. Park tractor on level surface.
- Lower the implements and shutoff engine.
- 3. Remove the front axle oil cap.
- 4. Remove the drain plug at the bottom of the front axle case and the drain plugs at the front of the both spindles.
- 5. Drain the oil completely into container.
- 6. Install the drain plugs correctly.
- 7. Fill with new oil to the correct level in the filler hole.
- 8. Reinstall the oil cap.

- If oil gets on your skin, it can irritate the skin and cause a skin condition.
 Make sure to clean your skin with soap and water or hand cleaner thoroughly.
- Make sure to cool down the engine sufficiently before draining oil.
 Oil is very hot and can cause a burn if changing oil right after the engine is stopped.

IMPORTANT

- Do not add front axle oil over the upper limit level.
- Check the front axle oil before starting the engine or at least in 5 minutes after the engine is stopped.
- When trying to use new oil from a different manufacturer or oil with different viscosity, drain used oil completely before adding new oil.

► REPLACING ENGINE OIL FILTER

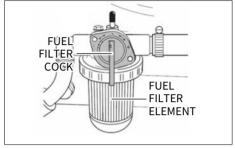


- 1. Remove the oil filter using a filter wrench.
- 2. Smear lightly the rubber seal on the new filter with oil to ensure.
- 3. Turn the filter clockwise until the seal contacts the base and then turn it another 2/3 turn to tighten it.

-(🖪 IMPORTANT

- When changing the oil always change the filter.
- Always use the same oil, as using different oils or specifications can cause damage.
- Dispose off the old oil as per local regulations.

REPLACING FUEL FILTER



This is the primary filter and removes water and coarse dirt from the fuel.

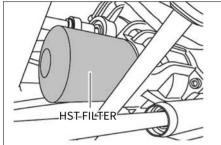
- 1. Close the fuel cock.
- 2. Remove the filter.
- 3. Wash it or replace the filter element.
- 4. Bleed the air from the filter.

IMPORTANT

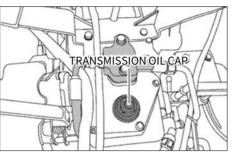
- Never use petrol (gasoline) thinner or similar inflammable material to wash the primary fuel filter.
- After replacing the filter always bleed the system.



REPLACING HST FILTER

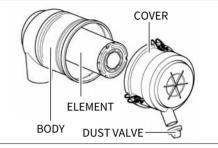


- 1. Remove the HST filter at the front of the HST unit with filter wrench.
- 2. Smear lightly the rubber seal on the new filter with oil to ensure.
- 3. Tighten the filter until the seal contacts the base and then turn it another 2/3 turn to tighten it.



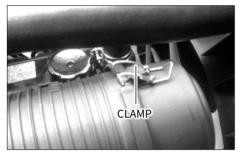
- 4. Remove the transmission oil cap at the top of hydraulic cylinder case.
- 5. Fill the transmission oil to the correct level on the sight window.
- 6. After filling, install the cap.
- 7. Run engine for a few minutes and stop it.
- 8. Check the oil level. Add if required.

AIR CLEANER CLEANING



<Squeezing dust>

To remove the dust from the evacuator valve squeeze it between thumb and fingers to let excess dust out and wipe around the valve to keep it clean from outside. E

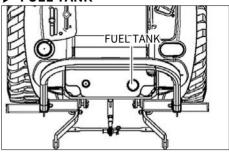


<Cleaning the element>

- 1. Open the hood.
- 2. Remove the element by unlocking the clamp.
- 3. Remove dust by blowing it out of the element with compressed air.
- 4. Check the element to ensure it is not damaged.
- 5. Reassemble the element.
- Replace the element after cleaning it 5 times or it is damaged.

- Never beat the element on a stone or concrete floor/wall to clean it
- Check all connections and hoses especially on the clean side of the air cleaner to ensure no dusty air can enter the engine.
- Check the element for flaws by putting a light inside the element.
- When reassembling make sure all surfaces seal correctly to keep dust out.
- When working in dusty conditions increase the service frequency.

FUEL TANK



Use clean diesel fuel only.

- 1. Turn the key switch ON.
- 2. Check the fuel level with the fuel gauge on instrument panel.
- 3. If fuel is near to empty, the empty warning lamp turns on.
- 4. Fill the fuel tank, if too low.
- 5. It is a good practice to refill the tank immediately after use to avoid condensation.

IMPORTANT

• As diesel fuel equipment is susceptible to contamination by dust or water, ensure that all dust and water is kept well away from the fuel tank.

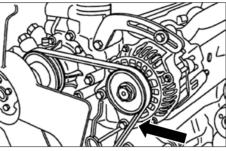
BLEEDING THE FUEL SYSTEM



The fuel system is to be bled whenever the tractor has run out of fuel or when filters, pipes or other components have been replaced.

- 1. Fill the tank with fuel.
- 2. Open Fuel filter cock.
- 3. Turn the key 「ON」 position for a while.
- 4. Start the engine and allow it to run for a while.
- 5. Stop the engine.
- 6. The bleeding of the system is now finished.

► FAN BELT CHECKING



Check the fan belt tension regularly and adjust if required.

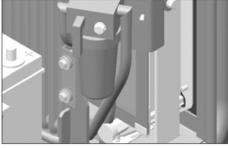
The correct tension is if the center of the belt is pushed.

With a finger it moves in approx. 10 to 12 mm (0.4 \sim 0.5 in) under 10Kgf [98N] as shown in the picture.

To adjust the fan belt loosen the top bolt on the alternator, move the alternator to the desired position and tighten the bolt.

Also ensure that the bolts at the bottom of the alternator are tight.

CHECKING HOSES AND CLAMPS



The fuel lines, radiator hoses, hydraulic and rubber hoses are consumables, which deteriorate by age and use. Check them regularly and replace if faulty.

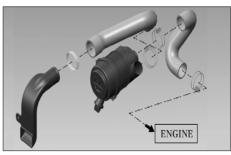
<Checking the fuel hoses>

- 1. Park tractor on level surface.
- 2. Shutoff engine. Allow engine to cool enough.
- 3. Open the hood.
- 4. Check the fuel hoses for damage and leakage
- 5. Replace if required.
- 6. Tighten clamps.

- Damaged fuel lines leak and cause fires.
- Damaged radiator hoses can cause hot water burns and in severe cases seize the engine.

AIR INTAKE HOSES AND CLAMPS





- 1. Park tractor on level surface.
- 2. Shutoff engine. Allow engine to cool enough.
- 3. Open the hood.
- 4. Check the air intake hoses for damage.
- 5. Tighten clamps.

RADIATOR HOSES AND CLAMPS

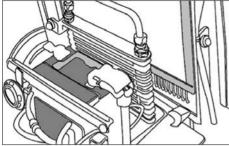


- 1. Park tractor on level surface.
- 2. Shutoff engine. Allow engine to cool enough.
- 3. Open the hood.
- 4. Check the radiator hoses for damage and leakage.
- 5. Replace if required.
- 6. Tighten clamps.

IMPORTANT

- Incorrect wiring or fuses can cause fires to both the tractor and surrounding area so get the dealer to check it annually.
- Likewise fuel pipes and wiring age with use.
- Ask your dealer to check it at least once every 2 years and replace as required.

CHECKING BATTERY



The electrolyte level of the battery can evaporate during use thus lowering the level.

Where it does so replace it with distilled water.

Where a spillage has reduced the level, replace it with electrolyte.

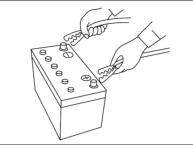


- Electrolyte contains acid and can cause serious burns.
- Any spillage on skin should be washed off by running water immediately.

IMPORTANT

 Low electrolyte levels can cause premature battery failure and corrosion.

BATTERY CHARGING



- Turn the ignition switch to the 「OFF」 position and remove the battery from the tractor.
- 2. Charge the battery in a well-ventilated area.
- 3. Charge the battery with the normal procedures and avoid quick charging.
- 4. Turn the charger switch OFF and connect the cables to the negative and positive battery terminals correctly.
- 5. When using a charger, its charging current should be below 10A.

BATTERY SWITCH

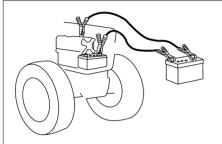


The function of the battery disconnect switch is to disconnect the power supply to the electrical system by interrupting the connection to the battery.

This has benefits for tractor safety and operation, in particular:

- 1. Protects the electrical system against short circuit;
- Reduced battery self-discharge when the tractor left idle for prolonged periods;
- 3. Allows maintenance and repairs to be carried out in conditions of safety.

BATTERY JUMP START



- 1. Turn off all electric devices.
- 2. Connect the positive terminal of the normal battery to the positive terminal of the discharged battery with the jump cable.
- 3. Connect the negative terminal of the normal battery to the engine body of the tractor for the discharged battery with the jump cable.
- Firstly, start the engine of the vehicle with the normal battery. Then, start the engine of tractor with the discharged battery.
- After the engine is started, disconnect the negative cable first. Then, disconnect the positive cable.

Charge the discharged battery for approx. 30 minutes after the engine is started.

A DANGER

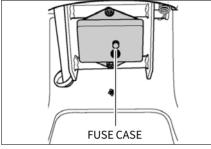
- When charging the battery after removing it from the tractor, it produces hydrogen gas, presenting a fire risk. Charge the battery only in a wellventilated area.
- The battery produces highly flammable hydrogen gas which can explode. Keep flammable items and spark away from the battery.
- The battery electrolyte is sulfuric acid so can burn your skin and eyes. Be careful not to spill any.
- If the battery electrolyte gets on your eyes, skin, clothes or object, rinse it with water thoroughly.
 If you swallowed it, drink a lot of water.
 Also, get medical attention immediately if acid contacts your eye or is swallowed.

• Make sure to connect the positive terminal first and connect the negative terminal to the engine body of the tractor with the discharged battery.

CHECKING ELECTRIC WIRING

- Loose wiring terminals can cause contact failure and damaged wiring can lead to performance deterioration of electric devices, short circuit and fire. Replace or repair aged and damaged wirings.
- 2. If wiring sheath is peeled off, wrap wiring with insulating tape.
- 3. If fasteners or bands to fix wirings are damaged, fix wirings with clamps.
- Have wiring checked by your workshop once a year regularly to avoid fire.

CHECKING AND REPLACING FUSE

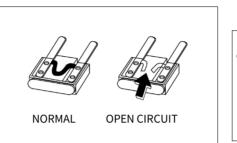


<Body fuse box>

Fuses are installed in this tractor to prevent any possible accident in case of wiring circuit malfunction.

If the electric system is malfunctioning during driving, check for any blown fuse.

- 1. Remove the cover of the fuse box.
- 2. Remove the blown fuse.
- 3. Fit a new fuse with the same capacity.
- 4. The function and capacity of each fuse are indicated on the cover of the fuse box.



<Main fuses>

The wiring harness is equipped with main fuses who's function is to preserve the wiring.

However when a main fuse blows the entire circuit is dead.

Always check the reason & rectify before replacing the fuse of the same value. To indicate that the fuse is blown it will be discolored.

• If using fuses other than the specified, wirings can be overheated, leading to a fire.

Never use a fuse with different capacity. Also, never use a steel wire or foil instead of a fuse.

IMPORTANT

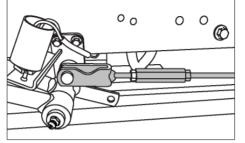
• Always check the reason for a blown fuse otherwise the new fuse is also likely to blow.

► GAP ADJUSTMENT ON FRONT AXLE



- 1. Lift the front with a hydraulic jack to get the wheels of the ground.
- 2. Then loosen the nut and tighten the bolt fully and turn the bolt ½ to loosen again in order to roll the center pivot metal freely and tighten the nut again.
- 3. While the wheels are still off the ground, move the axle on the center pivot as a final check that the gap is set correctly on the top of the pivot metal.

CHECKING AND ADJUSTING BRAKE PEDAL



The brake pedal's play increases as it is used for an extended period of time. If its play is excessive, adjust it.

<Adjustment>

- 1. Loosen the locknuts at each end and turn the rod to adjust the brake.
- 2. Turning it anticlockwise increases the free play, clockwise decreases it.
- 3. Tighten the locknuts.
- 4. Check that the free play is correct and the same on both pedals to ensure even braking.

- Uneven adjustment of the left and right pedal will result in one sided braking when the pedals are connected and can cause serious accidents, especially at high speeds.
- Double check to ensure free play is the same on both pedals.

ADJUSTING THROTTLE LEVER, TOE-IN

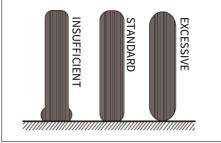
<Throttle lever adjusting>

If this lever is either loose or difficult to move please consult your dealer for rectification of the problem.

<Toe-in adjusting>

If the toe-in adjustment is incorrect it can cause severe shaking of both the steering wheel and the entire tractor. The correct toe-in is 2 ~ 6mm. We recommend that the adjustment is made by the dealer.

TIRE INFLATION PRESSURE



The air pressure used in the tires has a direct bearing on the life of the tire and its performance in the field. Ensure that the tire pressures are correct and in accordance with the table. To make a visual judgment see the drawing on the right.

Excess tire pressure can cause accidents. IMPORTANT It is strongly recommended that tire procedures are checked with a proper

It is strongly recommended that the pressures are checked with a proper gauge only & visual inspections are relied upon.

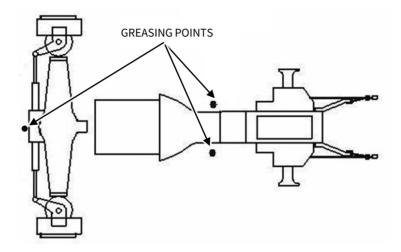
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4. GREASING EACH PART

GREASING AND DRAIN POINTS

Grease the tractor according to the service schedule.

Ensure that grease nipples are cleaned well before any attempt is made to grease them.









5. STORING THE TRACTOR

DAILY STORAGE

- 1. Store the tractor after cleaning it. Especially, clean it thoroughly after harrowing or working in a wet field.
- 2. Make sure to lower an implement.
- 3. Store the tractor indoors if possible.
- 4. If storing the tractor outside, cover it.
- 5. For better start-ability, it is recommended to remove the battery from the tractor and keep it indoors in winter.
- If the outside temperature is below 0°C, add antifreeze or drain coolant completely to prevent the engine from freezing and bursting.
- 7. Remove the key and store it separately.

LONG-TERM STORAGE

Clean the tractor thoroughly and store it as follows:

- 1. Change engine oil with new oil and run the engine for 5 minutes to distribute oil to each part evenly.
- Drain coolant from the radiator. Then, make a label indicating "No Coolant" and fix it onto the steering wheel. If antifreeze is already added, it is not necessary to drain coolant.
- Add oil, fluid and fuel to each part according to the maintenance chart.
- 4. Apply a thin film of grease of oil to body parts that are apt to rust.
- 5. Check each bolt and nut for looseness and tighten any loose bolt and nut.
- 6. Set the tire inflation pressure a little higher than the specification.

- 7. Remove a weight. Detach or lower an implement.
- 8. Chock the rear wheels.
- 9. Remove the battery from the tractor or turn off its switch to cut power connection.
- 10. Place wood blocks under the tires to protect them.
- 11. Charge the battery every 2 months during long-term storage.
- 12. Store it in a dry place to avoid rain or snow and cover the body.

USE AFTER LONG-TERM STORAGE

Keep the following instructions when using the tractor after its long-term storage.

- 1. Inspect the tractor thoroughly before driving it.
- To keep performance and life of the engine, idle the engine for approx.
 30 minutes after starting it.

- If leaving the battery connected to the tractor, turn off its switch to cut electric power.
- If wiring is damaged by rodents, its short circuit can start a fire.

IMPORTANT

- For engine lubrication, run the engine at 1,500 ~ 2,000 RPM for 5 to 10 minutes once a month.
- Remove the key from the tractor and store it separately.

USAGE AND DISPOSAL

It is recommended to keep the followings to protect the environment:

- 1. Avoid overloading work as it can lead to incomplete combustion and emissions that can pollute the air.
- 2. When changing oil, including engine oil, transmission fluid, hydraulic oil and coolant, be careful not to spill it and discard used oil according to the applicable law. Used oil should be treated with care and discarded properly as it can contaminate soil and water.
- 3. When this or other machine's life is expired, do not neglect or discard it on your own, but contact your dealer so that the approved service provider can discard the machine according to the laws.

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F. TROUBLESHOOTING

- 1. ENGINE TROUBLESHOOTING ······F 2
- 2. BRAKE TROUBLESHOOTING ······F 5
- 3. STEERING WHEEL TROUBLESHOOTING · · · · F 6
- 4. HYDRAULIC SYSTEM TROUBLESHOOTING · F 6
- 5. ELECTRIC INSTRUMENTS TROUBLESHOOTING······F – 7

1. ENGINE TROUBLESHOOTING

ISSUE CAUS		CAUSE	ACTION	
	The start motor does not rotate when the key switch is turned	 PTO switch is on 「ON」 position Defective safety switch Battery discharged Loose terminal Faulty key switch Defective start motor 	 Set PTO switch into 「OFF」 position Have it repaired or replaced by workshop Charge battery Check for looseness and corrosion Clean, tighten and apply grease Have it repaired or replaced by workshop Have it repaired or replaced by workshop 	
E N G I N E	The start motor runs, but its speed cannot be increased	 Weak battery Poor ground Incorrect viscosity of engine oil 	 Charge battery. Clean contact and connect ground firmly Change engine oil with proper viscosity 	
	The start motor runs, but engine cannot be started	 Air in fuel system Clogged fuel filter No fuel supply Defective engine Defective key stop unit 	 Bleed the system Clean or replace the filter Open the cock and add fuel Have it repaired or replaced by workshop Have it repaired or replaced by workshop 	
	Engine runs irregularly	 Air in fuel system Clogged fuel filter Clogged injection nozzle Fuel leak from pipe Poor fuel injection 	 Bleed the system Clean or replace the filter Have it repaired or replaced by workshop Tighten clamp, replace pipe or machine surface of copper washer before installation Have it repaired or replaced by workshop 	
	Engine stops at low speed	 Defective injection pump Incorrect engine valve clearance Low idle speed Faulty nozzle 	 Have it repaired or replaced by workshop Have it repaired or replaced by workshop Adjust speed to the rated speed Have it repaired or replaced by workshop 	

ISSUE	CAUSE	ACTION
The engine overruns	 Clogged governor by foreign material or dust Oil increased 	 Have it repaired or replaced by workshop Have it repaired or replaced by workshop
The engine stalls suddenly	 Insufficient fuel Faulty nozzle Engine seizure by insufficient oil or poor lubrication 	 Add more fuel and bleed the system Have it repaired or replaced by workshop Have it repaired or replaced by workshop Pull the fan belt. If crank pulley is moved, it may indicate insufficient fuel and faulty nozzle
The engine is overheated	 Insufficient coolant amount Loose or damaged fan belt Clogged radiator Insufficient engine oil 	 Add coolant Adjust fan belt tension or replace it Clean radiator Inspect and replenish
The engine produces white or black smoke	 White smoke Clogged air cleaner Excessive engine oil amount Insufficient fuel delivery amount Black smoke Low quality fuel Excessive fuel amount delivery Insufficient nozzle pressure 	 White smoke Clean air cleaner element Check and set the proper amount Have it repaired or replaced by workshop Black smoke Add specified fuel Have it repaired or replaced by workshop Have it repaired or replaced by workshop

	ISSUE	CAUSE	ACTION
ENGINE	The engine power is insufficient	 Clogged or carbon on nozzle tip Insufficient compression or gas leak from valve seat Incorrectly adjusted valve clearance Incorrect injection timing Insufficient fuel Clogged air cleaner Urea supply shortage 	 Have it repaired or replaced by workshop Adve it repaired or replaced by workshop Clean the air cleaner element Add more urea
	The oil warning lamp comes on during driving	 Low engine oil level Low viscosity of engine oil Faulty pressure switch Defective oil pump Oil filter element clogged 	 Add engine oil to specified level Change oil with proper viscosity Replace the switch Have it repaired by workshop Replace the element
	The charge warning lamp comes on during driving	 Defective wiring Defective alternator Defective battery or insufficient distilled water Loose or damaged fan belt 	 Check for loose or missing terminal, short circuit and poor ground and repair as necessary Have it repaired by workshop Replace the battery or add distilled water Adjust the tension or replace the belt

2. BRAKE TROUBLESHOOTING

	ISSUE	CAUSE	ACTION	
B R A K E	Brake does not operate or brake on one side operates only	 Excessive brake pedal free play Worn or seized liner Different play of left and right pedals 	 Adjust the free play Have it repaired by workshop Set the left and right free play to the same 	
	The brake pedal does not return to is original position properly	 Damaged brake return spring No grease on sliding part 	 Replace the spring Remove rust and apply grease 	

3. STEERING WHEEL TROUBLESHOOTING

	ISSUE	CAUSE	ACTION
E R I	The steering wheel feels heavy or The steering wheel vibrates	 Improper toe-in Incorrect tire inflation pressure Vibration from each connection 	 Adjust toe-in Set left and right tires to same specified pressure Tighten or replace connection
	The free movement of steering wheel is excessive	 Worn steering wheel shaft Worn metal parts Free play from each connection 	 Have it repaired by workshop Have it repaired by workshop Tighten free play of each connection

4. HYDRAULIC SYSTEM TROUBLESHOOTING

	ISSUE	CAUSE	ACTION
H Y D	Oil leaks from the pipe or hose	Loose clampsCracked pipes	Tighten clampsHave it replaced by workshop
L C S Y	Hydraulic pressure won't be decreased	 Lowering speed control lever fixed Defective valve Damaged cylinder Damaged and seized lift shaft rotating part 	 Set it to the lowering position Have it repaired by workshop Have it repaired by workshop Have it repaired by workshop
	The hydraulic pressure won't be increased	 Insufficient engine RPM Insufficient transmission fluid Air sucked into suction pipe Clogged oil filter Defective hydraulic pump Defective valve Damaged cylinder 	 Set the speed to 1,000 to 1,500 RPM Add to the specified level Tighten the connection. If any pipe or hose is cracked or O-ring is damaged, replace them. Have it repaired by workshop Have it repaired by workshop Have it repaired by workshop



5. ELECTRIC SYSTEM TROUBLESHOOTING

	ISSUE	CAUSE	ACTION
ELECTRIC SYSTEM	The battery won't be charged	 Blown fusible link Defective wiring Defective alternator Loose or damaged fan belt Defective battery function 	 Check the wiring and replace the fusible link Check for loose or missing terminal, short circuit and poor ground and repair as necessary Have it repaired by workshop Adjust the tension or replace the belt Check for loose or corroded terminal and insufficient electrolyte and take any necessary action
	The headlamp does not produce enough light	 Low charging level of battery Contact failure in wiring 	 Charge Check, clean and re-tighten the ground and terminal
	The headlamp does not come on	Blown bulbBlown fuseContact failure	 Replace the bulb Check the wiring and replace the fuse Check and clean the ground and terminal
	The horn does not operate	 Defective horn switch Defective wiring Damaged horn 	 Replace Repair Repair or replace
	The turn signal lamp does not blink	 Blown bulb Defective flasher unit Poor contact 	 Replace the bulb Replace Check and clean the ground and terminal
	The work lamp does not come on • Blown bulb • Contact failure		 Replace the bulb Check and clean the ground and terminal

MEMO·····



TO ENSURE SAFE AGRICULTURAL WORK, SAFETY PRECAUTIONS FOR USE OF AGRICULTURAL MACHINERY ARE SET BY THE NATIONAL INSTITUTE OF AGRICULTURAL ENGINEERING.

READ THIS INFORMATION THOROUGHLY ALONG WITH THE USER MANUAL TO ENSURE SAFE WORK.

1. STANDARD FOR FARMWORK

SAFETY MARK

Always make sure to check the operating condition of the safety lamp (such as turn signal lamp) before operating the machine.

※ If any lighting system is removed ※
 It may lead to an unexpected accident
 because it is not possible to give signals
 to people or machine nearby.

► INSTRUCTION BEFORE USE

Operator must attend his/her health and should get enough rest.

Before using the machine, check it and repair if there is a malfunction.

- Check if the assembly of front and rear wheels is okay.
- Check the tightening of bolts and nuts in each unit.

Do not drive if you are mentally unstable, drunk, pregnant, under the age of 16, not trained, overworked, sick, under the influence of drugs, and any other reason that may affect normal operation of the machine.

Please wear the appropriate working clothing.

- Put on a hard hat to protect your head.
- Put on a hat and a working clothes, to prevent an injury such as being twined into the machine.

- Protective measures to prevent any injury on foot or slipping Put on an appropriate non-slippery shoes to prevent a fall from the machine, scattering soil, and slippery surface.
- Measures against dust and toxic gas.
- Wear an appropriate protective gear.
- Measures against the herbicide : wear protective gear to protect respiratory system, eyes and skin.
- Measures against noise : wear a protective gear to protect your ears.
- Handling protective gear : do neither let children get on the machine nor get close to the machine.

If it is not possible to park the agricultural machine on a road either due to a breakdown or any other reason, operator must take an action such as moving the equipment to a place other than a road. Also, put a signal that there is a broken car, 100m behind and 200m at night in accordance with Automobile Regulation Article 23.

When starting to drive, make sure to check around carefully.

• Do not let anyone such as a child get close to the machine, keep them away and then drive the machine.

Do not load flammable, explosive material (diesel, gasoline, etc) on the machine.

When getting on and off a truck, have a helper give you signal and follow his/her lead.

Refer to chapter B in user's manual regarding the decals on the machine.

CHECKUP LIST FOR OPERATION

Before using the machine, check it and repair if there is a malfunction.

Check engine oil.

 Pull out level gauge, wipe off any fuel leak, put it back in, and pull it out again to see if the oil level is between 「upper limit」 and 「lower limit」.

Before any operation, check for any foreign materials caught on the engine, muffler, battery, and the fuel tank. Remove them immediately.

Covers that are removed during the maintenance work should be reinstalled to their original positions.

• Attach the cover correctly and firmly.

CAUTIONS DURING THE WORK

Do not load anything that can interfere driving.

• Always keep the driver's seat clean.

Always buckle up when driving.

Opening radiator cap when heated can spring out the steam to have the operator burned. Open the cap after it is sufficiently cooled down.

Do not drive with depressing the differential gear pedal.

Prohibit anyone to get on the machine.

- Prohibit anyone to get on the machine other than the designated place.
- Even though there are some designated place, do not let people more than capacity get on the machine.

• Never let any passenger mount on the machine.

Also, do not put any object on the machine.

Keep people away from the machine.

• Do not jump on/off the operating machine except for emergency.

Be cautious not to let anyone touch the belt .

Always check the connected area of belt. When two people are working collaboratively, exchange signals each other.

Prevent injury.

- Do not touch power transmission gear, rotating unit, and other dangerous parts.
- Pay special attention if you are working with the machine with blade or sharp projection.
- Be careful not to injure from the work where soils and stones are scattered around.

Safety in inspection, adjustment, etc.

- Make sure to stop the motor and carry out the work in a safe environment.
- When leaving the machine for a break, or other reason, leave the machine in a safe place and descend the working unit to keep them in a safe stopped state.

Removing and installing should be carried out in a safe place and with a safe method.

Do neither stay nor insert foot under the working units.

CAUTIONS WHEN DRIVING ON FARM ROAD

Driving on roads

- Drive safely observing the relevant regulation.
- Drive at safe speed.
- Be careful not to disturb other drivers.
- When driving a machine with sharp blade or bump, put on a warning sign or detach in advance to prevent any injury.
- Do not drive fast particularly on winding roads with projecting rocks.
- When driving at night, do not detach lighting device. (headlight, turn indicator, work light, brake light, etc.)
- Do not drive fast, abrupt starting, abrupt acceleration, sudden stop, and quick turning.
- When driving at high speed, do not slam on the brake. Never slam on the brake especially when turning at high speed.

When loading/unloading the machine

- Choose a place with a leveled and safe ground.
- Drive at low speed.
- Use a ramp with anti-slippery.

When entering paved road

- Use a ramp to cross a ditch or a bank.
- Make sure to use a ramp to enter/exit a high footpath. Be careful with fall and not to overturn.
- Check the safety around the surrounding before starting to drive.

When driving on a slope

 Drive at the minimum speed, lower the operating machine as low as possible and low the center position.

► INSTRUCTION AFTER USE

When the work is completed, stop the engine on a leveled ground, check the machine to clean. (remove any foreign materials)

 Remove straws, dirt, etc. and clean around the engine, silencer, and fuel tank.

Lay a cover on the transplanter (equipment) after the muffler and engine cool down.

Get a regular inspection after the season is over.

• When discarding a part (battery, oil, etc.) or scrap a machine, consult to a dealer and proceed accordingly.

For long-term storage, remove the battery from the machine and store it or disconnect the negative battery cable.

CAUTIONS FOR INSPECTION & MAINTENANCE

Do not refuel either when the engine is still hot or while driving.

Measures against a fire: Every working place with a risk of fire should be provided with a fire extinguisher. Prevent a fire by taking measures such as making a smoking area.

Always wipe off the leaked fuel.

Be seated in the cab when starting the engine.

After refueling, tighten the fuel cap and check if there is any fuel leakage from tank or pipe.

When opening a cap to supply water to radiator, be careful because steam or boiling water may spray due to overheating.

When getting off the cab, turn off the engine, lock the parking brake and remove the ignition key.

If it is inevitable to park on a slope, choke the wheels.

Park on a leveled and safe ground safely.

Check if the wiring code is in contact with other parts, peeled, loosen or having spacing. Manage PTO

- Stop PTO before stopping the engine.
- Do not remove the PTO protective cover or protective panel for operating machine.
- Do not use PTO adaptor in order to extend the PTO coupler or universal joint to outside of PTO protective cover.

To repair, secure the wheel width, or changing the wheel under either tractor or trailer, with the tractor or trailer raised, choke the wheels that are on the ground.

Do not use hydraulic jack for operating machine or tractor. Instead, use block or stand.

Safety frame

- Do neither weld nor drill a hole on the attached safety frame. Also do not modify it.
- Replace the damaged safety frame with a new one.

 If the safety frame was removed for specialized work, restore it immediately.

Be careful to touch dangerous area such as power transmission gear, rotating unit, etc. Put on a protective cover.

Do neither modify nor remove the safety device.

When checking and replacing the blade to plow the ground

- Stop the engine.
- Prevent the rotary from falling by turning the fall adjusting handle to stop hydraulic pressure.
- Apply the parking brake.
- Do not stand between tractor and rotary.

When working with rotary

 Do not put your hands near the rotating part such as blade axle and universal joint.



- Do not ride on the rotary. ٠
- When driving backward or turning ٠ quickly with the rotary raised up, make sure to check behind the machine.
- Adjust the rear cover. ٠

► OTHER PRECAUTIONS

The following items can affect the tractor performance and safety. Therefore, Repair of these items should be done by your workshop.

• Injection pump, nozzle, engine valve clearance, hydraulic valve, hydraulic pump and evaporator.

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1. SPECIFICATIONS

ITEM			T265NH
	MANUFACTURE		ТҮМ
	MODEL		A1100N2
	ТҮРЕ		NATURAL ASPIRATION
ENGINE	POWER		18kW (24.5HP)
	RATED ENGINE SPEED	RPM	2,600 ± 5%
	NUMBER OF CYLINDERS		3
	DISPLACEMENT		1,175cm ³
	ALTERNATOR		12V 45AH in 20H
BATTERY	BATTERY SPEC.		12V 50A
	TRANSMISSION TYPE		HST
	NUMBER OF SPEED STEP		INFINITE / 2 RANGE
POWER TRAIN	MAX TRAVELLING SPEED	mph (km/h)	R1 TIRE : 12.92 (20.8)
POWER TRAIN	MAX TRAVELLING SPEED		R3&R4 TIRE : 9.63 (15.5)
	BRAKES		WET DISC
	STEERING		HYDROSTATIC
	ТҮРЕ		INDEPENDENT
РТО	CONTROL		ELECTRIC / HYDRO
PIO	SPEED	RPM	REAR : 540 / MID : 2,000
	SHAFT DIAMETER in. (mm)		1¾ (35), 6 SPLINES

ITEM			T265NH
	MAIN PUMP CAPACITY	gpm (l/min)	4.38 (16.6)
	STEERING PUMP CAPACITY	gpm (l/min)	2.74 (10.4)
	TPL CATEGORY		1
HYDRAULIC SYSTEM	HITCH LIFT CAPACITY	lbs. (kg) -	1,543 (700)
	(at 24 in. behind link end)		1,102 (500)
	LIFT CONTROL TYPE		POSITION
	NUMBER OF REMOTE CONTR	OL VALVE	1 SET (2 PORTS)
	OVERALL LENGTH	(mm)	2,868
	OVERALL WIDTH	(mm)	1,262
	OVERALL HEIGHT	(mm)	2,514
DIMENSION	WHEELBASE	(mm)	1,480
DIMENSION	MIN. GROUND CLEARANCE	(mm)	240
	MIN. TURNING RADIUS WITHOUT BRAKE	(mm)	2,682
	WEIGHT	lbs. (kg)	1,907 (865)
	FUEL	gal. (ℓ)	6.6 (25)
	COOLANT	gal. (ℓ)	0.92 (3.5)
OIL CAPACITY	ENGINE	gal. (ℓ)	0.79 (3.0)
	TRANSMISSION	gal. (ℓ)	3.83 (14.5)
	FRONT AXLE	gal. (ℓ)	1.18 (4.5)
TIRE	FRONT : R1 / R3 / R4		6 - 12 / 25x8.5 - 14 / 23x8.5 - 12
	REAR : R1 / R3 / R4		9.5 – 20 / 36x12.5 – 15 / 12x16.5

2. MASS AND TIRE

No	Axle No	Tire dimension including load capacity index and speed category symbol	Rolling radius (mm)	Tire load rating per tire (kg)	Maximum permissible mass per axle (kg) (*)	Maximum permissible mass of the vehicle (kg) (*)	Permissible vertical load on the coupling point (kg) (*)(**)(***)	Track Width
1	F	6-12, 4PR 62 A6 R-1	298	265	650			1,051
1	R	9.5-20, 6PR, R1 101 A6 R-2 25X8.5-14 6PR, 97 A6 R-3		825	1,940			1,020
2	F			730	745	1 600	300	1,111
Z	R	36X13.5-15 4PR, 114 A6 R-3	409	1,180	1,180	1,688	300	1,064
3	F	= 23X8.5-12, 4PR, R4 93 A2 R-4		650	667			1,113
	R	12-16.5, 6PR, R4 130 A2 R-4	359	1,900	1,915			1,072

(*) According to the tire specification.

(**)Load transmitted to the reference center of the coupling under static conditions, irrespective to the coupling device; if the maximum permissible vertical load on the coupling point depending on the coupling is indicated in this table, expand the table at the right side and indicate the identification of the coupling device in the header of the column; for R- or S-category vehicles this column(s) concerns the rear coupling devices if there is such a device.

(***) Value to be provided only if the maximum permissible vertical load on the coupling point is lower than indicated in entries 38.3 and 38.4.

MAX TRAVELING SPEED

% The specifications are subject to change for improvement without a notice.

TIRE	SUB SHIFT	SPEED (Km/h)
	L	7.8
KI	н	20.8
R3 & R4	L	6.6
K3 & K4	Н	15.5

3. NOISE LEVELS

The tractor is approved in accordance with the applicable EC Directives.

To avoid increased noise levels proceed as follows:

- After maintenance operations or repairs refit all the sound-deadening panels and materials correctly
- Do not make changes to the tractor that may lead to an increase in noise emissions.
- Beware of any anomalous noise or vibration if you notice anomalous noise or vibration, park the tractor in a safe position and perform the stopping procedure. Inform maintenance personnel of the situation. Avoid prolonged operation.

Reference standards for the measurement of noise levels:

• The maximum driver-perceived noise level, with the engine at normal operating temperature and measured in accordance with the test method described in the European Directive 2009/76EC

MODEL	DRIVER-PERCEIVED SOUND LEVEL
T265NHEU	78 dB(A)

• The maximum noise level measured with the tractor in motion and the tractor stationary, measured in accordance with the method described in European directive 2009/63/EC.

TYPE	MAXIMUM EXTERNAL NOISE LEVEL WITH TRACTOR MOVING	MAXIMUM EXTERNAL NOISE LEVEL WITH TRACTOR STATIONARY
T265NHEU	78.0 dB(A)	76.0 dB(A)

4. VIBRATION REFERRED TO THE OPERATOR POSITION

The value is referred to the amount of mechanical vibration transmitted by the tractor to WHOLEBODY as defined by UNI ISO2631-1:2008.

Said value must be utilized for assessment of the vibration exposure risk, but it cannot cover all the possible conditions of use of the tractor since it may vary in accordance with parameters that are not always related to the tractor (terrain, implements, etc.) If the risk assessment cannot be considered to be exhaustive or if the risk may may exceed the values defined in 2002/44/EC, the use of a vibration mater s prescribed. In order to minimize the vibration transmitted to the whole-body the following best practice rules should be observed:

- Use the most suitable implement for the tractor and the task in hand
- Adjust the seat to suit your weight and stature
- Periodically check the condition of the cab suspensions and renew them if damaged
- Check tire inflation pressure
- Use front axle suspensions, if fitted
- During transfers, adjust tractor speed in order to minimize the vibration level.

The seat vibration values, as obtained from the seat approval in compliance with 78 /764/EEC (amended by 1999/57/EC) are shown in the following table.

Technical data:

Input vibration : Category A, Class I ,II and III Ambient temperature : 23°C

SEAT	DRIVER TYPE	CORRECTED VIBRATION LEVEL ON SEAT
W10SSS	LIGHT DRIVER (59kg)	1.24m/sec ²
	HEAVY DRIVER (98kg)	1.12m/sec ²

5. ENGINE EMISSION WARRANTY

YOUR WARRANTY RIGHTS AND OBLIGATIONS

In accordance with 40 CFR Part 1039, TYM Co., Ltd. is pleased to explain the emission control system warranty on your 2022 model year engine. In the US, new engines must be designed, built and equipped to meet the stringent anti-smog standards. TYM must warrant the emission control system on your engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your engine. Additional conditions and responsibilities are further outlined below.

Where a warrantable condition exists, TYM will repair your engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

TYM warrants to the original owner, and to each subsequent owner, of a new, diesel engine that the emission control system of your engine:

- 1. Was designed, built and equipped so as to conform at the time of sale with all applicable regulations.
- 2. Is free from defects in material and workmanship which will cause such engine to fail to conform with applicable regulations for the following warranty period:
 - for variable speed engines rated under 19 kW (25 HP): two (2) years or 1,500 hours of operation, whichever occurs first. In the absence of a device to measure hours of use, the engine shall be warranted for a period of two years.
 - for constant speed engines rated under 37 kW (50 HP) with peak

- power rated at less than 3,000 RPM: five (5) years or 3,000 hours of operation, whichever occurs first. In the absence of a device to measure hours of use, the engine shall be warranted for a period of two years.
- for engines rated at or above 19 kW (25 HP): five (5) years or 3,000 hours of operation, whichever occurs first. In the absence of a device to measure hours of use, the engine shall be warranted for a period of five years.

The warranty period shall begin when the engine is placed into service.

• OWNER'S WARRANTY RESPONSIBILITIES

• This engine is designed to operate on diesel fuel only.

Use of any other fuel may result in the engine no longer operating in compliance with EPA's applicable emissions requirements.

- The purchaser is responsible for initiating the warranty process. You must present the engine to a TYM dealer as soon as a problem exists.
- The use of any non-exempted addon or modified parts shall be grounds for disallowing a warranty claim.

TYM is not liable for failures of warranted parts caused by the use of a non-exempted add-on or modified part.

The purchaser is responsible for the performance of all scheduled maintenance or repairs on this new TYM engine.

TYM may deny a warranty claim if failure to perform maintenance results in the failure of a warranted part. Receipts covering the performance of regular maintenance should be retained in the event of questions arise concerning maintenance.

The receipts should be transferred to each subsequent owner of the equipment with the emission warranted engines.

EMISSIONS WARRANTY EXCLUSIONS

- Malfunctions in any part caused by misuse, abuse, improper adjustments, modifications, alteration, tampering, disconnection, improper or inadequate maintenance, or use of fuels not recommended for the engine as described in the Maintenance Manual.
- Damage resulting from accident, acts of nature or other events beyond the control of TYM.
- Loss of time, inconvenience, loss of use of equipment, engine or commercial loss.

EMISSION PARTS COVERED UNDER WARRANTY

The following is a list of emission control parts that are covered by the Limited Emission Control System Warranty.

This warranty covers include any engine parts related to the following systems:

- Fuel Injection Pump
- Fuel Injectors
- Ignition system
- Intake Manifold
- Electronic control units (if equipped) Sensors (if equipped)
- Exhaust Manifold
- Positive Crankcase Ventilation system parts (including PCV Valve and Oil Filler Cap)
- Turbocharger (if equipped)
- Charge air cooling system (if equipped)
- Smoke puff limiter (if equipped)
- EGR (if equipped)
- Air-induction system (e.g., intake and exhaust manifolds).

- Aftertreatment devices, if equipped (e.g., Diesel Particulate Filter [DPF], Diesel Oxidation Catalyst [DOC]).
- Miscellaneous hoses, clamps, connecters and sealing gaskets or devices used in the above systems.

Emission-related components also include any other part whose only purpose is to reduce emissions or whose failure will increase emissions without significantly degrading engine/equipment performance. APPE

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OPERATOR'S MANUAL FOR TYM TRACTORS

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