

Tractor is Zetor. Since 1946.

ZETOR



This Operator's Manual for the Zetor tractors, which we are presenting to you will help you to become familiar with the operation and maintenance of your new tractor.

Although many of you have rich experience with the operation of other tractors, please, read the information contained in this Operator's Manual very carefully.

In the Manual you will find a lot of new information and get a perfect overview of how to use the tractor with maximum efficiency during various kinds of work.

If you observe the rules of tractor operation and maintenance and driving safety, your new tractor will become your reliable and long-term friend.

The manufacturer of the tractor wishes you thousands of hours of satisfactory work.

ZETOR Brno

The technical specifications and information about the design, equipment, material and appearance are valid at the time of print. The manufacturer reserves the right to implement changes.

Printing errors reserved

The instructions for use are a part of the machine.

CONTENTS

Location of serial numbers	
Product Warranty	
About this manual	
Rops (roll over protection structures)	11
Roll-Over Protection Structure (ROPS)	
ROPS damage	12
Sliding Seat	
How to adjust the seat	
Safety instructions	
Introduction to safety information	
Signal words	
Introduction to safety instructions Introduction to safety instructions	
Protection children	
Use of rops and seat belt	
· ·	
Precaution to avoid tipping	
Safe parking of the tractor	
Keep riders off tractor	
Handle fuel safely-avoid fires	
Stay clear of rotating shafts	17
Always use safety lights and devices	
Practice safe maintenance	
Avoid high-pressure fluids	
Prevent battery explosions	
Prevent acid burns	
Battery disconnect	19
Service tractor safely	19
Work in ventilated area	20
Tractor runaway	
Safety starter switch	
Safe operation of your tractor	
Safety Tips During Maintenance	
Mounting and demounting implements	
The following precautions are suggested to help prevent accidents	
Diesel fuel	
DO'S AND DON'T'S	
DO'S-for better performance	
Don'ts - for safe operation	
General informations	
Exterior view	
Warning Symbols	
Tractor controls	
Instruments and Switches	
Main Switch	
Tachometer	
Hour Meter	
Fuel Gauge	39
Coolant Temperature Indicator Light	40
Combined Switch	41
Warning Lights Switch	41
Indicator Lights	42
PTO ON / OFF Switch	
Cruise Control Switch	
Controls Operation	
Throttle Lever	
Brake Pedal	
Control Pedals	
Travel Speed	
Parking Brake Pedal	
Reduced and Road Gears Shift Lever	
Differential lock pedal	
Front Axle Drive Shift Lever (4WD)	
Seat and Seat Belt	
Pto	53

CONTENTS

Tips for using the steering wheel with power steering	
Implement Lifting Control System	54
Implement Lowering Speed Control Dial	55
Cruise Control	56
Mower deck	57
Preface	
Help with Manual Use	
Use of the Machine	
Mower Deck	
Operation in General	
Operation on the Slope	
Transport	
Operation (1)	
Operation (2)	
Maintenance (1)	
Maintenance (2)	64
Table of fillings change and service intervals	
Safety Labels	
Information Labels	
Technical data of the middle mower deck	68
Lubrication	70
Mower Deck Adjustment	
Universal joint	72
Rear Link	
Front Link	
Front Link Assembly	
Mower Deck Settings	
Link Settings	
Front and Rear Cutting Height Adjustment	
Left and Right Cutting Height Adjustment	
Fasteners torque table (ISO)	
Parts Replacement	
Blade Disassembly	
Blade Installation	
Belt Replacement	
Belt Replacement	
Transmission	
Operation	
How to Start the Engine	
Switching the Engine Off	
Switching Off	
Engine Idling	
Engine Idling in General	86
Run-in	86
Driving Off, Shifting and Driving	
Driving Off	
Parking	
Driving on a Slope	
Driving Off on a Steep Slope	
Tips for Driving on a Slope	
Precautions when Entering / Exiting a Field	88
Loading on Truck / Unloading	
Precautions when Driving on the Road	
Operation Check while Driving	
Engine Oil Pressure	
Coolant	
Workflow	
Maintenance	
Covers Opening	
Hood Opening	
Checked Items	
Checked Items	
Check and Change of Coolant	95

CONTENTS

Check and Change of Engine Coolant	95
Cleaning the Radiator and Radiator Grilles	96
Oil Check and Replacement	96
Engine Oil and Replacement	96
Transmission Fluid Check and Change	98
Front Axle Oil Check and Change	
Filter and Element Replacement	
Transmission Fluid Filter Element Replacement	
Cleaning the Transmission Fluid Dirt Trap	
Oil filter Element Replacement	
Fuel System	
Check and Cleaning of the Air Filter	
Vacuum Valve Cleaning	
Air Filter Cleaning	
Air Filter Replacement	
Lubrication Points	
Lubricating Arm	
Hoses Check	
Electric System Check	
Battery Check and Charging	
Recharge	
Starting with an External Battery	
Electric Connection Check	
Fuse Check and Replacement	
Fuse Box	
High Capacity Fuse (50 A)	
Light Bulb Replacement	
Check and Adjustment of Parts	
Check and Adjustment of Brake Pedal	
Brake Pedal Play	
Check and Adjustment of the Fan Belt	
Check of Fuel Hose (Main Fuel Filter)	
Check of Air Filter Hose	
Check of Radiator Hose	
Tire Inflation Pressure	
Checks and Service	
General Information	
Periodical Check and Service Table	
Fuel, oil and fluid specification diagram.	
Recommended ZETOR service fillings	
Storage and disposal	
Tractor Storage	
Short-term Storage	
Long-term Storage	
Use after a Long Downtime	
Use and Disposal	
Troubleshooting	
Engine Faults	
Engine Faults	
Engine Faults	
Brake system faults	
Steering system faults	
Hydraulic system faults	
Electrical system faults	
Appendix	
Indov	120

LOCATION OF SERIAL NUMBERS

The engine number is stamped on the left hand side of the engine block. The chassis number is stamped on the left hand side of the machine, see the picture.



PHTN001

- 1 Position of the stamped engine number and engine type
- 2 Position of the stamped chassis number

Product Warranty

The manufacturer provides the warranty for this product. The warranty terms are set out in a separate document.

After-Sales Service

The objective of ZETOR TRACTORS a.s. company is complete customer satisfaction with the purchased product.

Any problems with your machine will be solved by your dealer / distributor service department.

Service

Service is available from any ZETOR TRACTORS a.s. dealer in the relevant area.

Spare Parts

To obtain spare parts, contact your nearest dealer and provide the following information:

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

NOTES

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 ZETOR Tractor.

Your tractor has been designed and built to provide maximum performance, low fuel consumption and ease of use. To maintain the condition and ensure trouble-free performance, it is important that maintenance is performed at the recommended intervals as described in this manual.

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 ZETOR dealer / Distributor. He has trained personnel, genuine parts and necessary equipments to undertake all your service requirements.

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 ZETOR dealer / Distributor.

NOTES

ROPS (ROLL OVER PROTECTION STRUCTURES)

Roll-Over Protection Structure (ROPS)

Zetor tractors are equipped with a frame to protect the operator.

On tractors with a cab, this frame is built into the cab structure.

The objective of the frame or the cab design is to protect the operator in the event of rolling over, they are designed to support the full weight of the tractor.

Each ROPS or cab structure, as well as any mounting brackets and screws or other fasteners, have been designed and tested to meet safety and government standards.

Danger

For the ROPS frames to effectively protect the tractor operator, the operator in the driver's seat must be wearing a seat belt. This will keep the driver inside the ROPS-protected area in the event of a rollover. Failure to use the seat belt can result in serious injury or death.

Some models of the ROPS frame can be folded, which can be used when entering low buildings, etc. Be careful when lowering the top part of the ROPS and be very careful when driving with the ROPS lowered.

Do not use the seat belt with the ROPS lowered and remember that the folding mechanism is intended for special use only and not for daily routine operation.



Using a tractor with the ROPS folded can cause serious injuries.

Since the ROPS frame or ROPS cab, together with the seat belt, have been designed to meet safety standards, they must be maintained in good order and in good condition.

For maximum safety, both the frame and seat belt must be regularly inspected (whenever the tractor is serviced).

If the seat belt is damaged or frayed, it must be replaced and if the ROPS frame or any part of its mounting structure is damaged or cracked, the defective part must be replaced by a new one. Such a part must meet all test criteria of the original set.

The use of poor quality component(s) affects the certification of the entire ROPS and the effectiveness of the structure in the event of an accident.



Drilling or welding or making any unprofessional modifications of ROPS is prohibited.

ROPS (ROLL OVER PROTECTION STRUCTURES)

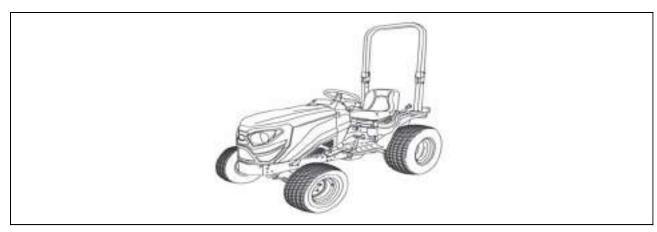
ROPS damage

If the tractor has rolled over or the ROPS has been damaged (for example, by hitting a low overhead object or during transport), the ROPS must be replaced to provide the guaranteed protection.

After an accident, check for damage on:

- 1. ROPS.
- 2. Seats
- 3. Seat belt and seat mountings.

Replace any damaged parts before operating the tractor.



CCL25003

Do not weld, drill or straighten the ROPS.

Warning: Never attach chains or ropes to the ROPS for towing; it will cause the tractor to roll over. Always use the points specified on the tractor for towing. Be careful when driving through open doors or under low overhead objects. Ensure sufficient overhead clearance for ROPS to avoid fatal injuries.

Warning: When removing or replacing the ROPS, ensure that the correct fasteners are used to replace the ROPS and that the fastening bolts are tightened to the recommended torque values.

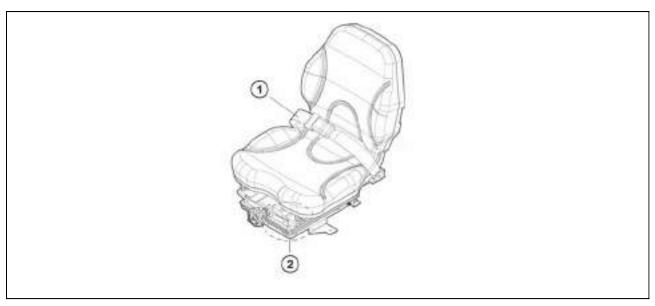
Warning: If the tractor is equipped with ROPS, always use the seat belt.

ROPS (ROLL OVER PROTECTION STRUCTURES)

Sliding Seat

How to adjust the seat

Before operating the tractor, it is important to adjust the seat to the most comfortable position and ensure that it is properly locked in its position.



CCL25004

- 1 Seat Belt
- 2 Forward / Reverse Position Adjustment Lever

Warning: Do not place your hand between the seat and the guide rail when adjusting the seat. You may be injured.

To select the seat position, move the adjustment lever and move the seat closer or further away from the instrument panel and controls.

Danger: Check that the seat is properly locked in its position before driving the tractor.

Danger: Always use the seat belt when the ROPS is installed/lifted. Do not use the seat belt if the ROPS is folded down or not installed. Check the seat belt regularly and replace it if it is frayed or damaged.

NOTE:

Do not use solvents to clean the seat. Use warm water and add a little of detergent to it.

NOTES

Introduction to 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 words



Warning



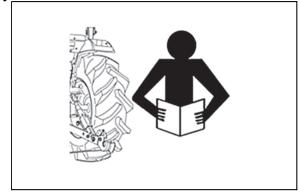
A signal word - DANGER, WARNING OR CAUTION - is used with safety alert symbol. DANGER identifies the most serious hazards. Safety signs with signal Word - DANGER OR WARNING - are typically near specific hazards. General precautions are listed on CAUTION safety signs.

Introduction to safety instructions Introduction to safety instructions

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 sings.

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.



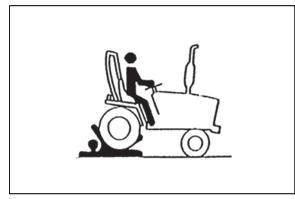
U18N134

Protection children

When using the tractor, prevent other persons from accessing the tractor.

Reverse travel

- Look around if someone is not behind the tractor.
- Do not allow anyone to ride on the tractor or implement.

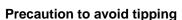


U18N135

Use of rops and seat belt

The Roll Over Protective Structure (ROPS) has been certified to industry and/or government standards. Any damage or alternation to the ROPS, mounting hard-ware, 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 tractor 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.

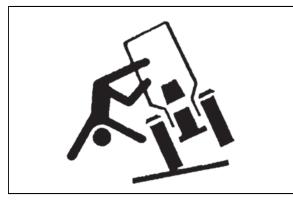
The seat belt must be worn during machine operation when the machine is equipped with a certified ROPS. Failure to do so will reduce or eliminate protection for the operator in the event of a roll over.



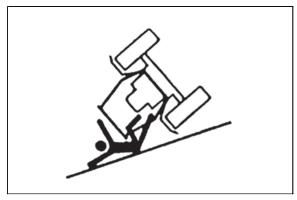
Do not drive where the tractor could slip or tip. Stay alert for holes and rocks in the terrain, and other hidden hazards.

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.



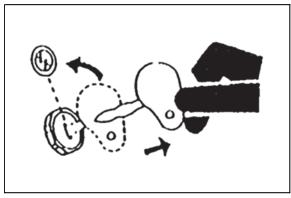
U18N136



U18N137

Safe parking of the tractor

Before working on the tractor: Lower all equipment to the ground. Stop the engine and remove the key.

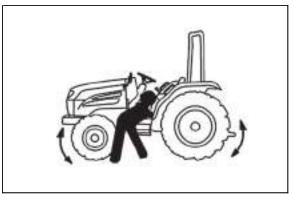


U18N138

Keep riders off tractor

Do not allow other persons to ride on the tractor besides the operator.

Persons on the tractor are exposed to the risk of injury, e.g. due to the impact of a foreign object or falling from the tractor.



U18N139

Handle fuel safely-avoid fires

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 tractors. Always keep your tractor clean of accumulated grease, and debris. Always clean up spilled fuel.



U18N140

Stay clear of rotating shafts

Entanglement in rotating shaft can cause serious injury or death.

Keep PTO shield in place at all times.

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

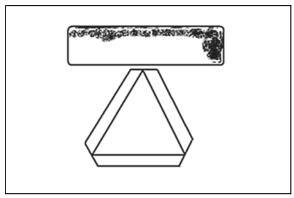


U18N141

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 low.



U18N142

Practice safe maintenance

Be thoroughly familiar with the service procedure before performing work.

Keep the tractor area clean and dry.

Do not attempt to service the tractor while it is in motion. Be careful not to let your body or clothing get into the rotating shaft.

Always lower all attached equipment on the ground. Turn off the engine.

Remove the ignition key. Let the tractor cool down before any repairs.

All parts of the tractor that need to be lifted for service work must be securely supported.

Keep all parts in good conditions and properly installed. Replace worn or damaged parts. Replace damaged/missing plates.

Remove any accumulated excess grease or oil from the tractor.

Disconnect the battery ground cable (-) before making adjustments to electrical systems or performing welding work on the tractor.



Liquid escaping under pressure can penetrate the skin and cause serious injury. Be especially careful when handling the injection elements - there is a risk of injecting liquids under high pressure under the skin of your hands or other parts of your body. If ANY liquid penetrates the skin, contact your doctor immediately.



U18N143



U18N144

Prevent battery explosions

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.



U18N145

Prevent acid burns

Protect the top of the battery from sparks, flammable materials and open flames. Accumulated battery fumes can explode. Never check the battery charge by connecting the battery terminals with a metal object.

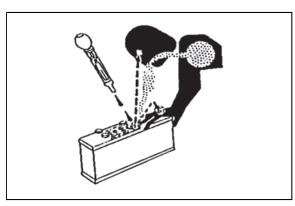
Sulfuric acid in the battery electrolyte is hazardous to health. It is strong enough to burn the skin, burn through the clothing and cause blindness when it gets into the eves.

To ensure adequate safety, always:

- 1. Refill the batteries in a well-ventilated place.
- 2. Wear eye protection and acid-resistant gloves.
- 3. Do not inhale the released vapors after the electrolyte has been added.
- 4. Do not add water to the electrolyte, as it may cause expansion and subsequent severe burns.

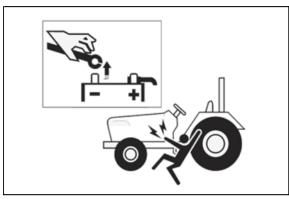


- 1. Rinse skin with water.
- 2. Rinse eyes with water for 10 15 minutes. Seek medical advice immediately.



U18N146

Battery disconnect



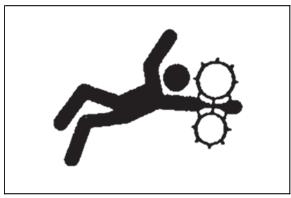
UCL18N007

- 1. When working with your tractors electrical components you must first disconnect the battery cables.
- 2. To ensure that there are no accidents from sparks you must first disconnect the negative battery cable.

Service tractor safely

Do not wear a tie, scarf or any other loose clothing when working near moving parts. If any of these garments is caught, a serious injury may occur.

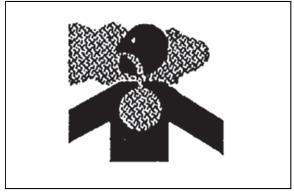
Do not wear rings or other jewellery to avoid electrical short circuits and entanglement in moving parts.



U18N147

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.



U18N148

Tractor runaway

- 1. The tractor may start when the gear is engaged, as a result of which the tractor may run uncontrolled and can cause serious injuries to people standing near the tractor.
- 2. When using the starter switch or other work on the tractor, the gearbox must be in the neutral position, the handbrake applied and the PTO lever disengaged.

Safety starter switch

- 1. Clutch operated safety switch is provided on all tractors which allow the starting system to become operational only when the clutch pedal is fully pressed.
- 2. Do not by-pass this safety starter switch or work on it. Only authorized dealers are recommended to work on safety starter switch.
- 3. On some models safety starter switch is provided on transmission high-low shifter lever and in PTO shifter lever. The tractor can be started only if High-low shifter lever is in neutral position.

Caution: Safety starter switch is to be replaced after every 2 000 hours / 4 years, whichever is earlier.

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 it's control and safety features.

Operators should not operate a tractor or attached machines if they are not properly trained or if they are physically unfit to operate the machine.

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.

Under all circumstances, it is necessary to ensure the safety of the operator and others near the machine. Ensure no one is between the tractor and a towed vehicle (trailer or implement).

Safety Tips During Maintenance

- 1. 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.
- 3. 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.
- 5. 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 assembly and disassembly of implements (attachments) is carried out on a secure, level surface. To prevent accidental injuries, ensure that no one is between the tractor and the implement or under the implement.
- 2. After mounting the implement, ensure that all hanging parts such as chains or hoses are properly secured and, where PTOs are used, properly fastened and secured.
- 3. Where heavy implements are used, ensure that the unit is well balanced, using suitable ballast to ensure this balance.
- 4. Before leaving the tractor, lower the implement onto the ground, deactivate the PTO, apply the parking brake and stop the engine.
- 5. When working with an implement that uses PTO, make sure that no other persons are near the moving parts and do not make any modifications to the implement while the machine is in operation.
- 6. A tractor equipped with a ROPS protective frame only performs its function in combination with a fastened seat belt.
- 7. If children are present in the immediate vicinity of the machine or unit, caution and anticipation of possible risks related to the movement and operation of the machine are necessary.
- 8. The tractor may only be used by trained operators who must ensure that no worker is injured. Extra caution is necessary in dusty environment with significantly reduced visibility.
- 9. Never start the tractor unless the transmission is in the neutral position, the operator is in the driver's seat, and there is no other danger when the engine is started up.
- 10. Only the operator sitting in the driver's seat can operate the tractor. Never turn or brake suddenly at high speed, as this may cause the tractor to roll over, resulting in serious injury or death.
- 11. When driving on public roads, observe all legal requirements of the country in which the tractor is operated, including the requirements for accompaniment. When driving with wide implements, use the warning devices specified by the applicable legislation in the country in which the machine is used.
- 12. When operating under adverse conditions, in hilly or bad terrain, adjust the speed of the tractor to the following conditions:
 - Never drive down the hill rashly or with the transmission in the neutral position.
 - Use engine braking capability together with service brakes.
 - Do not attempt to shift gears in a steep slope and engage a suitable gear before starting to drive the tractor.
- 13. When driving uphill with a heavy implement, be careful to prevent overloading and loss of front axle adhesion and consequent loss of control.
- 14. Never remove or modify the seat belt.
- 15. Never remove, modify or repair the ROPS protective frame.

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

The following precautions are suggested to help prevent accidents

The best operator is the careful operator. Most accidents can be prevented by observing certain safety measures. Before using the tractor, read the following measures and observe them to avoid accidents. The tractor may only be operated by authorized persons who are properly trained for this operation.

Tractor

- 1. Read the operating and maintenance manual of the machine carefully before operating the tractor. Insufficient knowledge of machine operation can lead to accidents.
- 2. For safe operation, use an approved protective structure and seat belt. Roll-over of a tractor without a protective structure can result in serious injuries or even death.
- 3. Do not remove the roll-over protective structure (ROPS). Always use the seat belt.
- 4. The laminated roof of the tractor cab does not provide protection against the breakthrough of external objects with higher weight.
- 5. To avoid falling while entering and leaving the cab, keep the stairs and platform clean, free of mud
- 6. Do not allow anyone other than the operator to ride on the tractor. There is no safe seat or approved passenger seat on the tractor.
- 7. Replace any missing, illegible or damaged safety signs.
- 8. Keep safety signs clean, free of dirt and grease.

Tractor service

- 1. For your safety, keep the tractor in good operating conditions. An inadequately maintained tractor can be dangerous.
- 2. Stop the engine before servicing the tractor.
- 3. The cooling system operates under pressure. If the engine and its cooling system are hot, it is dangerous to remove the cap. Turn the cap slowly to the stop, then let the pressure escape before removing the cap.
- 4. Do not smoke while refueling the tractor. Never refuel the machine near an open flame.
- 5. The fuel in the injection system is under high pressure and can penetrate the skin. Unqualified persons must not disassemble or modify the fuel pump, injectors, nozzles or other parts of the fuel injection system. Failure to follow these instructions may result in serious injuries.
- 6. To prevent fire or explosion, keep the battery and the cold start devices away from open flames.
- 7. Do not change or modify anything on the tractor and do not allow anyone to change or modify anything on the tractor or any part of the tractor or its function.

Tractor Operation

- 1. Before starting the tractor, apply the parking brake, set the PTO switch to the 'OFF' position, move the hydraulic control levers to neutral, the remote control levers to neutral (if fitted), and the transmission to neutral.
- 2. Do not start the engine or operate the tractor when standing next to the tractor. Always sit in the driver's seat when the engine is running or when operating the controls.
- 3. Starter safety switch. A safety switch is mounted on the tractor to prevent the tractor from starting accidentally. The tractor's starter system is connected via this switch, which only closes when the brake pedal is depressed. On some models, the reverse lever and the PTO button must also be in the neutral position to close the starter circuit. Do not by-pass the starter safety switch. If the starter safety switch is defective, consult your Zetor tractor dealer/distributor.
- 4. Avoid accidental contact with the shift lever while the engine is running. Such contact can cause the tractor to move.
- 5. Do not get off or get on the tractor while it is in motion.
- 6. Before leaving the tractor, stop the engine, remove the ignition key and apply the parking brake.
- 7. Do not operate the tractor in an enclosed building without adequate ventilation. Exhaust gases can cause death.
- 8. Do not park the tractor on a steep slope.
- 9. If the power steering or engine stops working, stop the tractor immediately.

- 10. Tow only using the swinging bar or the lower link bar in the lower position. Use only the draw bar pin, which is secured in the correct position. Towing using the tractor's rear axle carriers or any point above the rear axle can cause the front part of the tractor to lift.
- 11. If the front part of the tractor tends to lift when heavy working implement is attached to the three-point hitch, install the front ballast weights or front wheel weights. Do not operate a tractor with insufficiently weighted front part.
- 12. Always use the hydraulic position control lever when attaching the implement and transporting the implement. Make sure that the hydraulic couplers are properly mounted and that they will disconnect safely in case of accidental detachment of implement.
- 13. Do not leave the implement in the lifted position.
- 14. Use the beacon, 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 the tractor lights when meeting approaching vehicles at night. Make sure that the lights are adjusted to avoid dazzling the eyes of the oncoming vehicle driver.

Tractor control

- 1. Watch where you drive, especially at the ends of the rows, the headlands, on the roads, around the trees and at obstacles hanging low to ground.
- 2. To prevent the tractor from rolling over, drive the tractor at a safe speed, especially when driving on uneven ground, when driving over ditches or slopes, and when turning in corners of areas and parcels.
- 3. When driving on the road, do not disconnect the two brake pedals of the tractor from each other to ensure better braking.
- 4. When driving downhill, shift the same gear in the tractor as uphill. Do not drive downhill with the engine stopped or idling.
- 5. For safety reasons, any towed vehicle and/or trailer, the weight of which exceeds the maximum towed weight, must be fitted with its own brakes.
- 6. If the tractor gets stuck or its tires are frozen to the ground, try to reverse to prevent the tractor from rolling over.

Always make sure you have enough space above you, especially when transporting the tractor.

Operating the PTO

- 1. When you operate the PTO-powered attachments, stop the engine and wait for the PTO to stop before you leave the tractor and disconnect the equipment.
- 2. Do not wear loose clothing when operating the PTO or near rotating parts of the connected implement.
- 3. When operating PTO-driven stationary equipment, always secure the tractor with the tractor parking brake and secure the rear wheels from the front and rear side with wedges.
- 4. To avoid injury, always cover the PTO outlet. Do not clean, modify or repair the PTO-driven equipment while the tractor engine is running.

Always make sure that the main PTO cover is installed and always install the PTO end piece cover whenever the PTO is not in use.

Diesel fuel



Diesel complies with EN 590 standard

IMPORTANT NOTE!

By using motor oil with elevated sulphur content, the service life of diesel particle filter can be significantly reduced.

- 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.
- 9. 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.

Note: It is suggested that after repairs if any of the safety decal/sign is peeled/defaced, the same may be replaced immediately in interest of your safety.

DO'S AND DON'T'S

DO'S-for better performance

YES Ensure that protective covers are returned immediately and they are in good conditions.

YES Read all operating instructions before operating the tractor

YES Perform all maintenance tasks completely and without error.

YES Keep the air filter clean.

YES Ensure that lubricating oils of the appropriate standard and quality are used and that they are refilled and changed at recommended intervals.

YES After replacing the filter elements, install new sealing rings.

YES Observe the warning light on the oil pressure gauge and if it lights up, check immediately for any abnormality.

YES Make sure the radiator is always filled with clean water and use antifreeze in cold weather. Drain the system only in case of emergency and refill before starting the engine.

YES Ensure the transmission is in the neutral position before starting the engine.

YES Store all fuel in clean environment and use a filter when filling the tank.

YES Perform minor adjustments and repairs as soon as necessary.

YES Allow engine to cool before removing radiator filler cap and adding water; remove the radiator cap slowly.

YES Engage a lower gear when going downhill steep slopes.

YES Connect the brake pedals together when driving on the road.

YES If the draft control lever is not in use, keep it in the lower limit position.

Don'ts - for safe operation

DO NOT USE the engine with the air filter disconnected.

DO NOT START the tractor in a closed building without proper ventilation

DO NOT OPERATE the tractor or engine during lubrication or cleaning

DO NOT LET the diesel fuel tank run out completely, otherwise the system will need to be bled.

DO NOT INTERFERE with the engine injection pump. The warranty is void if the seal is broken

DO NOT LET the engine idle for a long time.

DO NOT RUN the engine if all cylinders do not work.

DO NOT DRIVE with the clutch or brake pedal depressed. This leads to excessive wear of the brake lining, clutch-driven elements and clutch release bearing.

DO NOT USE independent brakes to turn while driving on the road or at high speed.

DO NOT REFILL the fuel in the tractor with the running engine.

DO NOT SET the hydraulic control levers beyond the upper stop limit.

DO NOT USE the draft control lever to lift implements.

DO NOT START the engine with the PTO engaged.

DO NOT USE the hand throttle control lever while driving on the road.

DO NOT MOVE the hydraulic levers backwards.

NOTES

Exterior view



PRIMOHT20NC_0001

- 1- Turn Signal Light (R)
- 2- Fender
- 3- Tire (Rear)
- 4- Headlight
- 5- Tire (Front)



PRIMOHT20NC_0002

- 1-Steering Wheel
- **2** Hood
- 3- Headlight
- 4- Muffler
- 5- Turn Signal Light (L)



PRIMOHT20NC_0003

- 1- Brake Light
- 2 Turn Signal Light

Warning Symbols

- Safety labels are placed on the tractor to work safely with the machine.
- Do not forget to read them and follow the instructions.
- Keep safety labels clean and undamaged at all times.

If the safety label on the machine is dirty, wash it with soapy water and wipe with a soft cloth. Never use a solution such as thinner or acetone, as these may erase inscriptions or images.

. When washing with a high-pressure water stream, detachment may occur.

Do not use a direct stream of high-pressure water to clean the labels.

• If the safety label is damaged or lost, order a new one immediately and place it on the machine.

When attaching the new label, clean the place with water, so that the label can be properly attached, and wait for the surface to dry. Then attach the label. Each label has an order number at the bottom.

When replacing the part on which the label is located, place a new label on the new part.



PRIMOHT20NC_0004

- 1- U.S. Environmental Protection Agency EPA Regulation Use low sulfur fuel
- 2 WARNING Do not refuel the tractor if you are smoking or if there is an open fire or spark nearby. Always stop the engine before refuelling.
- **3 WARNING -** Start the engine only when you are sitting in the driver's seat. If the safety start switch is bypassed, the engine can be started with the gear engaged.

Do not connect or short-circuit the leads on the starter coil.

Connect the auxiliary power cables as indicated on the battery plate and in the operating and maintenance manual.

Starting with the gear engaged will cause the tractor to start driving and can result in serious injury.

- **4- WARNING** Always apply the parking brake when parking. Failure to follow this instruction may result in accidents and injuries.
- **5- WARNING** Extensions, alterations, cracks, damage or corrosion to this structure may adversely affect the functionality of the ROPS.
- 6- The tractor may unexpectedly overturn much faster than the driver is able to jump out of it.
 - 1. Never operate a tractor without a ROPS protective frame.
 - 2. Always use the seat belt at the same time as the protective frame.
 - 3. Do not pull the top of the protective frame towards the rear, the tractor may overturn.
 - 4. Do not operate the tractor on steep slopes or in off-road gradients.
 - 5. Do not turn sharply when driving at high speed.
- 7- Always hold the steering wheel while driving.
- **8- WARNING** There is a risk of injury or death if the tractor is used with a protective structure folded down. Only use a tractor with a folded protection frame when absolutely necessary.

Do not use the seat belt when operating the tractor with the protection frame folded down.



PRIMOHT20NC_0005

- 1 Work in ventilated area
- 2 Operation and maintenance manual
- **3 WARNING -** Do not open the radiator cap while the engine is hot. There is a risk of injury by hot steam.
- **4 WARNING -** Keep your hands and clothes away from the rotating fan and drive belts to prevent serious injury.
- **5 WARNING -** To prevent burns, do not touch while the system is hot.
- **6** Depress the main brake pedal and at the same time secure the parking brake lever.
- 7 WARNING Always turn the controller to the right locked SLOW (LOCK) position.
 - 1. When you drive on the road.
 - 2. When you change the blades of the mower.
 - 3. When you adjust the mower.

Sudden lowering of the mower can cause serious injuries or death.

- 8 Differential lock
- **9 WARNING -** Never turn on the differential lock when driving fast or driving on the road. This may cause the tractor to roll over and cause injuries.
- 10 DANGER Only the driver may ride on the tractor.
- 11 WARNING Always fasten your seat belts.

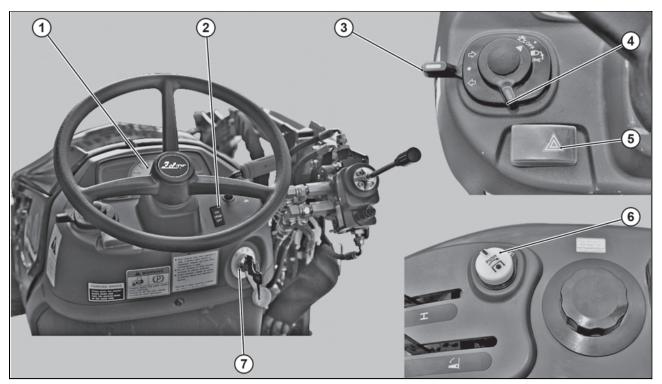


PRIMOHT20NC_0006

- **1** Beware of the rotary output drive, contact with it can cause fatal injuries. Use protective shields provided for additional equipment.
- 2 WARNING Connect the additional tools or trailers to the tractor only with the prescribed draw bars or hitches.
- **3 WARNING -** Prolonged exposure to noise can cause hearing damage and loss. Use ear protection (headphones, earplugs).

NOTES

Instruments and Switches

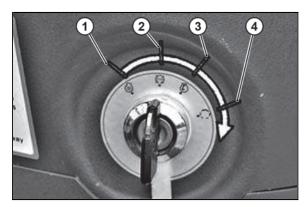


PRIMOHT20NC_0007

- 1 Tachometer
- 2 Cruise Control Switch
- 3 Turn Signal Light Switch
- 4 Light Switch
- 5 Warning Lights Switch
- 6 ON/OFF PTO Switch
- 7 Key Switch

Main Switch

- 1 GLOWING
- 2 OFF
- 3 ON
- 4 STARTING



PRIMOHT20NC_0008

It is used to start and stop the engine.

• 'OFF' Position

In this position, the ignition key can be inserted and removed. When the key is turned to the OFF position when the engine is running, the engine is switched off.

• 'ON' Position

The engine is running and the switch is energized in this position.

'STARTING' Position

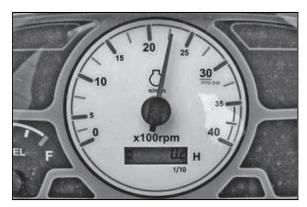
In this position, the engine can be started. When the key is released, the switch returns to the 'ON' position.

• 'GLOWING' Position

In this position, the combustion chamber of the engine is heated.

Tachometer

It displays the engine or PTO speed per minute.

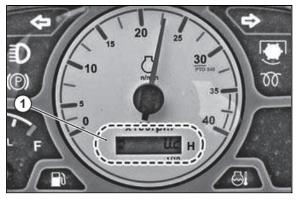


PRIMOHT20NC_0009

Hour Meter

Displays the total time the machine has been used. The last digit indicates one tenth of an hour (decimal point). If the hour meter is in operation, the indicator light below it flashes.

1- Hour Meter

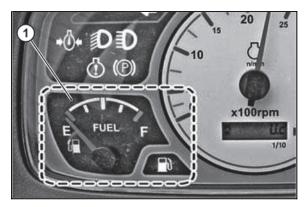


PRIMOHT20NC_0010

Fuel Gauge

When the main switch is in the "ON" position, the amount of fuel in the tank is displayed.

- F Full Tank
- F Empty Tank
- 1 Fuel Gauge



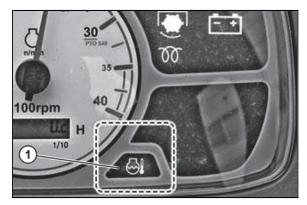
PRIMOHT20NC_0011

NOTE

- Poor fuel quality can damage the engine. Make sure that you use only the original diesel according to the required parameters.
- To improve starting power, use relevant winter fuel

Coolant Temperature Indicator Light

1 - Coolant Temperature Indicator Light



PRIMOHT20NC_0012

When the main switch is

in the "ON" position, the coolant temperature is displayed. If the indicator is in the "H" red area while driving, the coolant is overheated. In this case, stop and take all necessary steps referred to in the troubleshooting instructions.

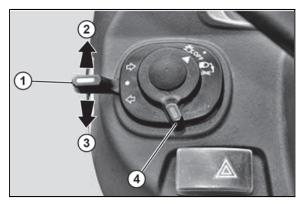
See "Troubleshooting".

NOTE

• If the engine speed is increased quickly, the engine may be damaged.

Combined Switch

- 1- Turn Signal Light Switch
- 2- Turn Signal Light (R)
- 3- Turn Signal Light (L)
- 4- Light Switch



PRIMOHT20NC_0013

(1) Light Switch Control

The light switch can be operated when the main switch is in the "ON" position.

[OFF] - All lights OFF

Instrument lights, tail lights and low beam lights are ON.

Instrument lights, tail lights and high beam lights are ON.

Warning: The high beam lights can dazzle the driver in the opposite direction, which can lead to an unexpected traffic accident.

(2) Turn Signal Light Control

The turn signal lights can be operated when the main switch is in the "ON" position.

- Turning left
 - Turn the turn signal light switch counterclockwise. Then the left turn signal light and the left turn signal indicator light on the instrument panel flash.
- Turning right
 - Turn the turn signal light switch clockwise. Then the right turn signal light and the right turn signal indicator light on the instrument panel flash.

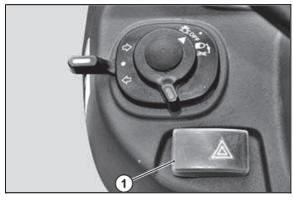
NOTE

• This lever does not automatically return to the neutral position. Therefore, it must be returned to the neutral position after turning.

Warning Lights Switch

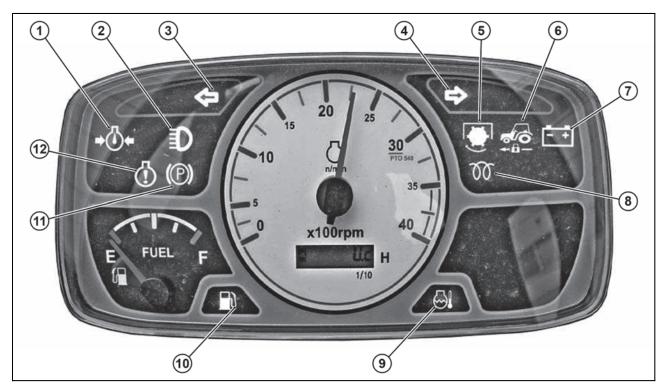
1 - Warning Lights Switch

This switch can be used to warn other vehicles in the event of a tractor breakdown when driving on public roads. When the switch is pressed, the left and right warning lights start flashing. Press the switch again to turn off the lights.



PRIMOHT20NC_0014

Indicator Lights



PRIMOHT20NC_0015

- 1- Engine Oil Pressure Warning Light
- 2- Low Beam Light
- 3- Left Turn Signal Indicator Light
- 4- Right Turn Signal Indicator Light
- 5- PTO Indicator Light
- 6- Cruise Control Indicator Light
- 7- Charge Warning Light
- 8- Preheating Indicator Light
- 9- Water Temperature Warning Light
- 10- Fuel Level Warning Light
- 11- Parking Indicator Light
- 12- Engine Warning Light



Turn Signal Lights Indicator

This light is used to indicate the intended direction of the turn. When the turn signal light switch is pulled down, the turn signal light for turning left begins to flash. When the turn signal light switch is pulled upwards, the turn signal light for turning right begins to flash. These lights also work when the warning lights are switched on.



Low Beam Light Indicator

It comes on when the low beam lights are switched on.



Fuel Level Warning Light

If the fuel gauge needle points to "E" while driving, the warning light will come on, indicating that there are approximately 5 liters of fuel left in the tank.



PTO Indicator Light

It comes on when the PTO is rotating.



Handbrake Indicator Light

It comes on when the parking brake is applied.



Preheating Indicator Light

It comes on when the engine preheating function is activated. It goes out when the preheating is completed.



Charge Warning Light

It comes on when the main switch is switched to the "ON' position and goes out as soon as the engine is started.

NOTE

• If the charge light comes on while driving, the battery is not properly charged. Therefore, turn off all unnecessary electrical equipment and have the vehicle checked immediately at your service center.



(8) Engine oil pressure warning light It comes on if the engine oil pressure is insufficient while driving.

NOTE

• When the oil pressure warning light comes on, it indicates a malfunction in the lubrication system. Immediately check the engine oil and, if necessary, have the vehicle repaired by the service center.



Water Temperature Warning Light

If this light comes on, the coolant is overheated.

NOTE

• If the coolant warning light comes on, it is overheated, check it.



Engine Warning Light. If it comes on, there is an engine failure.

Notice: If the engine warning light is on, make sure that the operator drives the tractor only if normal engine speed is reached. Failure to follow this instruction may result in reduced performance and an accident caused by a system error.



(11) Cruise Control Indicator Light

This light is on when cruise control is on.

PTO ON / OFF Switch 1 - PTO ON / OFF Switch



PRIMOHT20NC_0027

The PTO ON/OFF switch is located on the right side of the instrument panel and can be easily identified using the integrated yellow indicator light.

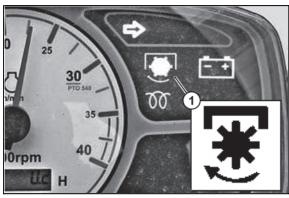
When the switch is switched on by pressing, the PTO indicator light comes on to indicate that the switch and PTO are in the ON position.

If the switch is pressed again, the indicator light goes out to indicate that the PTO is OFF.

• PTO Operation Indicator Light

ON - The power take-off is rotating. OFF - The power take-off is stopped.

1 - PTO Operation Indicator Light



PRIMOHT20NC_0028

Cruise Control Switch

When the switch is pressed to the ON position, the cruise control is switched on and the switch light and the indicator light on the instrument panel are on.

When the switch is pressed to the OFF position or the brake pedal is depressed, the cruise control and the lights are switched OFF.

1 - Cruise Control Switch



PRIMOHT20NC_0029

Controls Operation

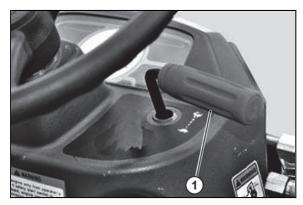


PRIMOHT20NC_0030

- 1-Steering Wheel
- 2- Brake Pedal
- 3- Parking Brake Pedal
- 4- PTO Shift Lever
- 5- Fuel Tank Cap
- 6- PTO Switch
- **7** Position Regulation Lever
- 8- Reduced and Road Gears Shift Lever
- 9- Front Axle Drive Shift Lever (4WD)
- 10- Travel Speed Control Pedal
- 11- Joystick
- 12 Throttle Lever
- 13- Cruise Control Switch

Throttle Lever

1 - Throttle Lever



PRIMOHT20NC_0031

Like the accelerator pedal, it is used to adjust the engine speed



Pushing: higher speed



Pulling: lower speed



Warning:

• Use only when working in a field. It can lead to excessive acceleration and accident.

Brake Pedal

1 - Brake Pedal



PRIMOHT20NC_0032

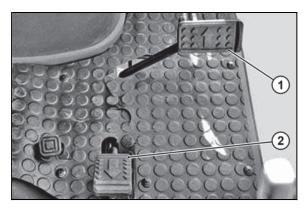
The brake pedal is located on the left side of the operator.

It has two functions.

- Stopping the tractor.
- Switching off cruise control

Control Pedals Travel Speed

- 1- Travel Speed Control Pedal (Forward)
- 2- Travel Speed Control Pedal (Reverse)



PRIMOHT20NC_0033

When the forward travel speed control pedal is pressed, the forward direction is selected. The reverse direction is selected by pressing the reverse speed control pedal. When the speed control pedal is released, neutral is shifted and the tractor stops.

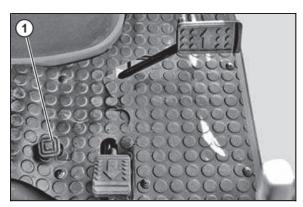


Warning:

- When the direction of travel (forward / reverse) is engaged while driving, a shock may occur
 due to inertia, which may cause injury. Therefore, change direction only if the tractor is
 stopped.
- Only change direction if you are sitting in the operator's seat.

Parking Brake Pedal

1 - Parking Brake Pedal



PRIMOHT20NC_0034

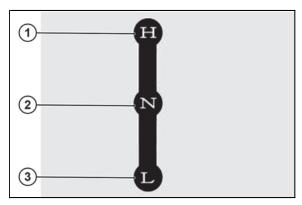
- 1. To engage the parking brake, first depress the brake pedals and depress the parking brake pedal. At this point, first release the brake pedal and then lock the parking brake pedal.
- 2. To release the parking brake, depress the brake pedals again.

NOTE

• If you have the parking brake partially applied while driving, the brake disc will wear prematurely.

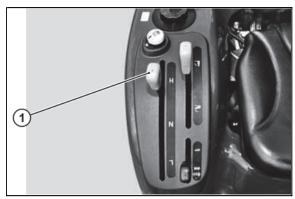
Reduced and Road Gears Shift Lever

- 1- High Speed
- 2- Neutral
- 3- Low Speed



PRIMOHT20NC_0035

- Use the reverse and range shift lever to select the forward or reverse direction.
- Use the throttle lever to increase / decrease engine speed.
- 1- Reduced and Road Gears Shift Lever



PRIMOHT20NC_0036

NOTE

• Use the road gear shift lever only when the tractor is stopped and the brake pedal is depressed. Shifting the lever while driving can damage the transmission.

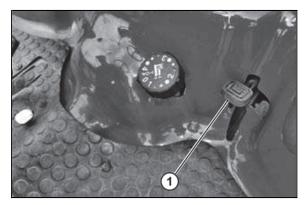


Warning:

• If the gear shift lever is in the "H" position, the speed is higher. Never place the gear shift lever in the "H" position when reversing.

Differential lock pedal

1 -Differential lock pedal



PRIMOHT20NC_0037

The differential lock is a device for locking the differential system so that the left and right wheels rotate at the same speed. This function can be used when the rear wheels are slipping or when only one wheel is turning.



Engagement - by pressing the pedal



Disconnection - by releasing the pedal



Warning:

- Never use the differential lock when driving on the road. A collision or rollover may occur.
- . It must be switched off during turning. Otherwise, it can lead to injury or accident.

NOTE

- When using the differential lock, the engine must be running at low speed.
- If the differential lock is not disengaged after releasing the differential lock pedal, lightly depress the left and right brake pedals alternately.

Examples of using differential lock

- 1. One wheel slips or the tractor cannot drive forward when driving in or out of the field.
- 2. If the wheel slips during work requiring traction, such as plowing.
- 3. One wheel is stuck in soft terrain and it is not possible to drive the tractor.

Front Axle Drive Shift Lever (4WD)



PRIMOHT20NC_0040

The front axle drive shift lever (4WD) is located at the bottom, on the left side of the operator.

In the ON position, the front-wheel drive is switched on and it is switched off in the OFF position.

Engage and disengage the front axle drive when the front wheels are in the straight position and at low engine rpm.

Examples of 4WD Usage

The 4WD drive can be used under the following conditions

- 1. When cultivation of land in the field.
- 2. If traction is required on a slope or on a wet field or when towing a trailer.
- 3. When working in wet or sandy terrain.
- 4. When cultivating hard soil with a rotavator to prevent the tractor from jumping.
- 5. When entering a field, leaving a field, or crossing the side of a field.

NOTE

- Stop the tractor before operating the 4WD lever.
- To prevent damage to the transmission if the front axle drive lever is not engaged, lightly depress the travel speed control pedal.
- If the front axle drive is switched on on paved roads, the tires wear quickly.

Seat and Seat Belt

1 - Seat Position Adjustment



PRIMOHT20NC_0041

(1) Seat Position Adjustment

The seat may be moved forward and backwards if the seat adjustment lever is pushed to the left. After adjustment, make sure that the seat is firmly secured.

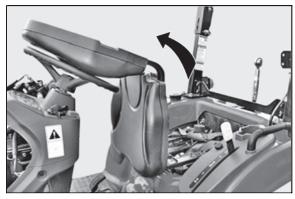


(2) Seat Belt

Before driving, adjust the length of the belt according to your figure and fasten it in the buckle. You will hear a click when properly fastened.

(3) Folding the Seat

The seat back can be folded down in case of rain or longterm storage.



PRIMOHT20NC_0043



- Make sure you wear a seat belt that protects you from rollover or impact.
- Never adjust the seat while driving.

PTO

Both rear and mid PTO are designed for variable use. They can be connected simultaneously or individually.

If the PTO switch is in the ON position, the engine will not start.

If the operator leaves the seat and the parking brake is released and the PTO is switched on, the engine switches off.

Notice: To avoid damaging the transmission, do not switch on the PTO when the engine is running at high speeds.

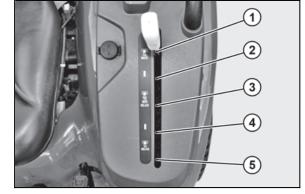
1- Mid

2- N

3- Mid + Rear

4- N

5 - Rear



PRIMOHT20NC_0044

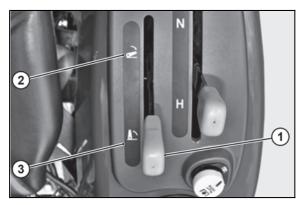
Tips for using the steering wheel with power steering

- 1. Use the steering wheel only when the engine is started. At lower speeds, turning the steering wheel is more strenuous.
- 2. If implements, such as a front loader, are attached to the front of the tractor, it may be more difficult to turn the steering wheel of a stopped machine. If so, turn the steering wheel while driving at low speed.
- 3. If the steering wheel is turned completely to the stop on one side, the safety valve is activated and a beep (relief valve) sounds. If this sound is heard, do not use the steering wheel (it is OK to use it only briefly). Also, never turn the steering wheel from one stop to another.
- 4. When turning the steering wheel to the stop (with the machine stopped), the tires wear unnecessarily.
- 5. In winter, warm the engine sufficiently before driving.
- 6. When repairing components such as piping, make sure that no foreign objects enter the system.
- 7. There is no need to use too much force to use the steering wheel. Therefore, use it carefully and hold it with your hands while driving.

Warning: If you release the steering wheel while driving, it may result in a collision and rollover. The steering wheel must never be released while driving.

Implement Lifting Control System

- 1- Position Regulation Lever
- 2- DOWN
- **3** UP



PRIMOHT20NC_0045

(1) Position Lever

This lever is used to lift and lower implements to a certain working height and to maintain this height.

Function:

Lifting Implements

To lift the implement, pull the lever.

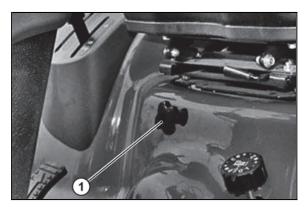
Lowering Implements

To lower the implement, push the lever forward.

Warning: Before leaving the tractor seat, make sure that you have lowered the implement and stopped the engine. The control could be used by another person, which can lead to a dangerous situation.

Implement Lowering Speed Control Dial

1 - Implement Lowering Speed Control Dial



PRIMOHT20NC_0046

This control dial is used to adjust the lowering speed of the implement.

Set the lowering speed of the implement according to the type of implement and the working environment.

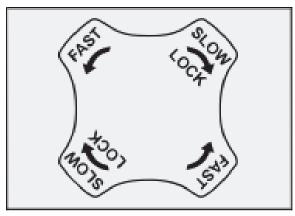


Under the following conditions, set to the Lock position to prevent the implement from falling:

- When driving on public roads
- When replacing the rotavator blade or removing straw and grass
- When performing service work on implements
- Reducing lowering speed

Turn the control clockwise (lower speed).

- Increasing lowering speed Turn the control anticlockwise (higher speed).
- Lock
 Turn the control clockwise (lower speed) up to the stop.



PRIMOHT20NC_0047

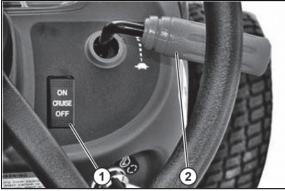
Cruise Control

The cruise control function ensures comfortable and efficient operation. When cruise control is on, the indicator light on the instrument panel is on.

- 1. Turning Cruise Control On
 - (1) Depress the forward speed control pedal until you reach the required speed.
 - (2) Press the cruise control switch to the on position.
 - (3) Release the cruise control pedal.
- 2. Turning Cruise Control Off

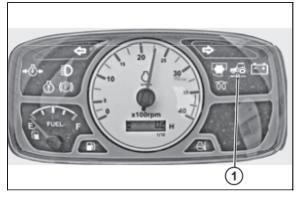
There are two ways to turn off cruise control.

- (1) Turn off by turning the switch to the "OFF" position, or
- (2) Depress the brake pedal.
- 1- Cruise Control Switch
- 2 Throttle Lever



PRIMOHT20NC_0048

1- Indicator Light



PRIMOHT20NC_0049



Important:

• To avoid damaging the mechanism, do not depress both speed control pedals while cruise control is on.



• To avoid injury, do not use cruise control when reversing.

Preface

This manual is an integral part of the machine.

Before operating the machine, all users must read this manual and they must have access to this manual at all times.

The purpose of this manual is to provide information on the safe and proper use of the machine, and the owner or any person operating the machine must read it before using the machine.

Through this manual and the information provided by our dealers, we want to ensure the safe operation of this machine.

As the operation itself is beyond the control of Mahindra company, its distributors or its dealers, no liability is accepted for any injury or damage caused by improper operation of this machine.

Help with Manual Use

If you need help with the use of this manual or you need to solve problems that are not included in this manual, contact your dealer.

If you need additional copies of this manual, you can purchase them from your dealer.

If you need a copy in a foreign language, contact your dealer to find out the availability of the manual in the required language.

Use of the Machine

This machine is designed exclusively for use for normal lawn mowing activities. Any other use is considered to be contrary to the intended use.

The manufacturer accepts no liability for damage or injury caused by such unauthorized use; the risks connected with such use are borne solely by the user.

Strict compliance with the operating, service and repair conditions specified by the manufacturer is also a basic condition for use in accordance with the intended purpose.

The machine must be operated, repaired and serviced only by persons who are familiar with all its specific characteristics and with the relevant safety rules (injury prevention). Accident prevention regulations, all other generally accepted occupational safety and health regulations and road traffic regulations must always be observed.

Adjusting the fuel supply beyond the published production specifications or other excessive power increase shall result in the loss of the warranty for this machine.

Any arbitrary modifications made to this machine relieve the manufacturer of the responsibility for any consequential damage or injury.

Tractor

- 1. Before using this machine, it is necessary to read, understand and follow all instructions set out in the manual and on the machine. Failure to do so may result in serious injury or death and damage to the machine. Keep this manual in a safe place for future and regular references and service parts orders.
- 2. It is necessary to read and understand all safety measures in the tractor operating manual.
- 3. The machine can only be operated by responsible operators familiar with the instructions. They must know the controls and know how to quickly stop the tractor engine and the machine in an emergency situation.
- 4. The tractor must be equipped with a roll-over protection structure (ROPS) and when working with the machine, the operator must wear a fastened seat belt and the ROPS folding system must be secured in the position up. Falling off the tractor or its rollover can result in death due to running over or crushing.
- 5. When working with a tractor equipped with a protective structure (ROPS), the operator must always be secured with a seat belt.
- 6. Use personal protective equipment (PPE), such as eye, ear, respiratory, head, hair, hand, and foot (and other) protection, when operating, maintaining, or repairing the equipment. Avoid wearing loose clothing or jewelry that could get caught and tangled in moving parts.
- 7. Stop the tractor, engage neutral, apply the parking brake, lower the mower deck, stop moving parts, remove the ignition key to prevent unauthorized use of the machine.
- 8. Never leave the rotating blade, the machine in motion or the engine running when leaving the tractor operator's seat.
- 9. When getting on and off the tractor, use the fender and step handles to prevent falls. Keep the steps and operator platform clean and free of grass clippings.
- 10. Drive and turn the tractor only at low speeds. Avoid unpredictable maneuvers and excessive speed.
- 11. Always keep a gear shifted when driving down the slope.
- 12. Do not cut near cliffs, ditches or embankments. If the wheel goes along the edge of the ditch or falls, the tractor can overturn suddenly.
- 13. When working on slopes, install weights in the wheels to improve the stability of the machine. When working on the slopes, pay special attention to stability.
- 14. Only the operator may ride on the tractor.
- 15. Use extreme caution when loading the tractor on a trailer or truck, and when unloading it.

Mower Deck

- 1. Do not use the mower deck unless it is properly attached to the tractor. Failure to follow this instruction may result in serious injury or death and damage to the equipment.
- 2. Make sure that the locking spring on the shaft slips freely and make sure that the guides are firmly seated in the PTO shaft groove.
- 3. All protective equipment and covers must be safely installed in place.
- 4. Never use the mower deck when the deflector is in the raised position.
- 5. When hitting a foreign object, stop the tractor immediately. Get out of the machine and check it. Before continuing to work, check the machine and repair it in case of damage.
- 6. If you need to clean a clogged grass spreading chute, adjust its setting or remove grass or grass clippings from the mower deck, stop the tractor using the proper procedure and wait until the moving blade of the mower deck has come to a complete stop.
- 7. Before working with the tractor, make sure that all fasteners are properly fastened and tightened. See the technical data in the torque table in this manual and tractor operating manual. If the table is not available, request values from your dealer.
- 8. Never adjust the cutting height when the tractor is in operation.
- 9. Make sure that all safety labels are properly affixed, that they are clean, free of grass clippings and that they are legible. If they are damaged or worn, replace them.
- 10. Wear gloves when installing the belt. Make sure that your fingers are not caught between the belt and the pulleys.
- 11. Be careful when mounting or removing the belt from the spring tensioning system. Energy is stored in the springs when tensioning and their sudden release can cause injuries.

Operation in General

- 1. Get familiar with the controls. Read these operator's manual and the manual provided with your tractor. Learn how to quickly stop a tractor, engine and mower deck in an emergency situation.
- 2. Ensure sufficient ground clearance before driving under power lines, bridges, tree branches, or when leaving or entering a building. These situations can cause the operator to be pushed or pulled out of the tractor operator's seat, which could result in serious injury or death.
- 3. Do not place your hands or feet under the mower deck or near rotating parts.
- 4. Always wear protective goggles with side shields or safety goggles during operation.
- 5. Remove objects such as stones, toys, wires, etc. from the area to be mowed, which could be hit and thrown away by the mower blades.
- An object thrown by the mower deck can be thrown in any direction and can cause injury to the operator or bystanders. If you want to avoid injury, make sure that the persons in the vicinity, children and pets are at least 25 meters from the tractor during operation. If a person enters the safety zone, stop the operation.
- 6. During operation, pay attention to hidden hazards in the area you are mowing.
- 7. Turn off the mower deck before shifting reverse gear and reversing. Always look down and behind before and during reversing.
- 8. Always switch off the mower deck blades when driving across gravel roads, sidewalks or roads.
- 9. Observe traffic when working near roads or crossing roads.
- 10. Never direct the grass discharge towards people, animals or objects.
- 11. To eliminate injuries caused by clippings, never switch on the mower deck when it is raised to the transport position.
- 12. Passengers, except for the driver, are not permitted on the tractor.
- 13. Use the machine only in daylight or in good artificial light
- 14. Do not try to mow grass that is too tall, dry grass or piles of dry leaves. Cuttings may accumulate on the mower deck or enter the tractor exhaust and cause a fire.

Operation on the Slope



Slopes are a major factor in losing control of a machine and rollover, which can result in serious injury or death. Driving on slopes requires extreme caution. If the inclination of the slope is greater than 15 degrees, it is not possible to use the tractor, this could result in serious injury or death.

- 1. When working on slopes, install weights in the wheels to improve the stability of the machine. When working on the slopes, pay special attention to stability.
- 2. Be extremely careful on the slopes and reduce travel speed.
- 3. Do not stop, start or suddenly change direction on the slopes. If the tractor loses traction, stop the machine and continue slowly straight down the slope.
- 4. To avoid losing control and rollover of the tractor, always mow grass when driving up or down the slope, never mow when driving across the slope.
- 5. Do not use or transport the machine on steep slopes.
- 6. Do not use the machine for mowing wet grass. Reduced traction can cause the machine to slip on the slope.
- 7. Always keep a gear shifted when driving down the slope.

Transport

- 1. Always lock the mower deck in the lifted position before transporting the tractor.
- 2. Passengers, except for the driver, are not permitted on the tractor.
- 3. When driving on the road, use the lighting of accessories and equipment to alert the drivers of other vehicles. Check and follow local regulations.
- 4. Make sure that the slow vehicle symbol is clearly visible at the rear of the vehicle. If the slow-moving vehicle sign is worn, faded or damaged, replace it immediately.
- 5. Be extra careful and reduce speed when transporting in poor conditions, when turning or on roads with a higher inclination.
- 6. Do not use the PTO during transport.

Operation (1)



Warning:

- To eliminate injuries, make sure that the deflector chute is installed and works properly. Never use the mower deck unit without a chute or with the chute raised.
- To eliminate injuries, never direct the discharge of the mowed grass on people in the vicinity and ensure that no one is in the vicinity of the machine during operation.



Notice:

• To eliminate injuries and damage to the device, tighten after the first hour of operation all fasteners, including the fasteners of blades and spindles.

The operator is responsible for the safe operation of the tractor.

Before starting operation, the operator must be familiar with all tractor controls, their functions and how to control them, and all safety features.

The tractor is designed for final cut mowing.

Only the operator may drive on the mower. Under no circumstances may anyone other than the operator be present on the tractor.

The cutting height of the mower deck is adjusted by adjusting the position of the hitch pin at the rear of the three-point hitch and allows the hitch pin to rest on the drawbar. For the correct setting, see the "Adjusting the Cutting Height" chapter in this manual.

Lawn anti-scalp wheels on both sides of the mower deck are used for guidance while mowing.

When mowing, adjust the mower deck so that the anti-scalp wheel overlaps the edges of the previously mowed lawn. This guarantees full coverage of the area to be mowed.

When mowing, the tractor engine must run at the recommended speed.

Do not mow at high travel speed. Operating the mower deck at the recommended engine speed will ensure adequate blade speed for efficient mowing and grass removal from the mower deck.

For best results, it is recommended that during the first two passes around the area to be mowed, the discharge chute is directed towards the center. After completing the first two passes, turn the direction, the discharge chute should be directed outwards. This will ensure a better look of your lawn.

The sharpness of the blades affects the appearance of the cut surface. Blunt or damaged blades will cause the appearance of the lawn to look ripped rather than cleanly mowed.

Do not mow the grass too short. Short grass supports weed growth and yellowing in dry weather.

In the heat and dry season, let the grass grow longer. Longer grass reduces heat accumulation, retains the necessary moisture and protects the grass from heat damage.

Mow often. Do not allow the lawn to be tall. Mowing areas with tall grass may require pre-mowing the lawn to the maximum cutting height. After mowing to the maximum cutting height, you can mow the area again with the mower deck set to the requested cutting height.

Operation (2)



Warning:

- To eliminate injuries, make sure that the deflector chute is installed and works properly. Never use the mower deck unit without a chute or with the chute raised.
- To eliminate injuries, never direct the discharge of the mowed grass on people in the vicinity and ensure that no one is in the vicinity of the machine during operation.



Notice:

• To eliminate injuries and damage to the device, tighten after the first hour of operation all fasteners, including the fasteners of blades and spindles.

At certain times of the year and under certain conditions, the tractor may leave stripes of uncut grass.

The main cause is tall grass and weeds. Under these conditions, it may be necessary to mow the lawn once more to achieve an even cut.

Cutting a large proportion of the length of grass blades at once can damage and weaken the plant's growth system.

A good guide is the one-third rule: do not cut more than one-third of the height of the grass and never more than 2.5 cm.

Mow the grass if it is between 7.5 and 10 cm tall.

The time of day and the condition of the grass will affect the result of mowing.

Mow at a time when the grass is cold and dry. The most ideal mowing conditions are in the late afternoon or early evening.

Maintenance (1)

- 1. Protect your eyes, wear safety goggles.
- 2. Never start the tractor inside an enclosed area. The exhaust gases of the engine can be fatal.
- 3. Always lock the mower deck in the lifted position before maintenance and service.
- 4. Before performing any service work, make sure that the hoists, jacks and stands are in good condition and their dimensions are sufficient to be used to support the tractor.
- 5. Do not work under the tractor unless it is secured by means of a hoist or jack.

Never place body parts under the implement or moving parts, even when the tractor is stopped. Leakage of the hydraulic system, failure of the hydraulic system, mechanical failure or movement of the control lever can cause tractor parts to fall or rotate unexpectedly and can cause serious injury or death.

- 6. To eliminate injuries, do not set up, service, clean or remove the tractor blockage when the engine is running.
- 7. Check the mower deck blades frequently.

They must be sharp and free of scratches, cracks and must be securely attached.

- 8. Do not handle the mower deck blades with bare hands. Wear leather gloves or wrap the blades, where they will be held. Improper handling can lead to serious injury.
- 9. Your dealer can supply original spare blades. Non-genuine blades may not meet the specifications of the original equipment and their use may be dangerous.
- 10. To reduce the risk of fire, keep the tractor free of grass, leaves or clippings.

Clippings accumulated on the mower deck or their contact with the tractor exhaust can cause a fire.

11. Never interfere with safety devices.

Check their proper functioning regularly. Use all covers as described in this manual.

12. It is not recommended to use pressure cleaning to clean the tractor assembly. High-pressure water can cause damage to spindles, pulleys, belts or bearings that shorten their service life and reduce uptime.

Maintenance (2)

Table of fillings change and service intervals

The refence filling change table shows the required maintenance tasks and their intervals. For satisfactory operation of the machine, follow this inspection plan according to the individual indices.

No.	Checkpoint	New	After the first 10 hours	Every 50 hours	Every 150 hours	Every year	At the beginning of each work	At the end of each work	Reference page
1	Transmission oil leaks check	0	0	0	0	0	0	0	
2	Transmission oil check		О	О	0	О	0		
3	Transmission oil change				00	0			
4	Replacement of transmission seal for transmission oil					О			Při poškození
5	Check of the blades tightness	0	0	0	0	О	0	0	
6	Check of the blades wear			0	0	0	О	0	
7	Check of the balance and appearance of blades	0	0	0	0	0	0	0	
8	Check of fasteners	0		0	0	0	0		
9	Check that the pins are in place	0		0	0	0	0	0	
10	Lubrication check								
	 Pulley holder 	0	О	О	0	О	0		
	 Belt tensioning pulley 	0	О	0	0	0	0		
	 Belt tensioner arm 	0	0	0	0	0	0		
	 Rear coupling shafts 	0	0	0	0	0	0		
	 Universal joint 	0	О	0	0	0	0		
11	Front and rear wheel wear check				0	0	0		
12	Front cylinder wear check				0	0	0		

NOTE

- The operation marked 'oo' must first be performed after the first 50 hours.
 - Oil Specification: SAE90 Amount of oil: 0.3 L

Safety Labels

Located on the belt cover on the right and left sides



PRIMOHT20NC_0052

Located on the weldment of the mower deck



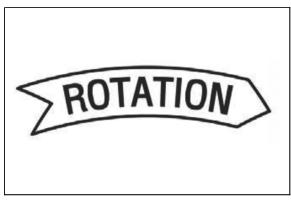
PRIMOHT20NC_0053

Located on the side cover



PRIMOHT20NC_0050

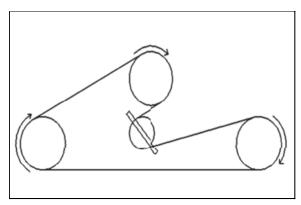
Located on the front of the weldment of the mower deck



PRIMOHT20NC_0051

Information Labels

Located on the front of the weldment of the mower deck



PRIMOHT20NC_0054

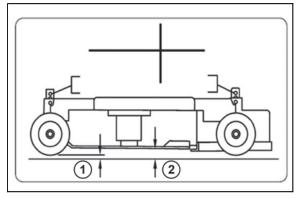
Located on the weldment of the mower deck



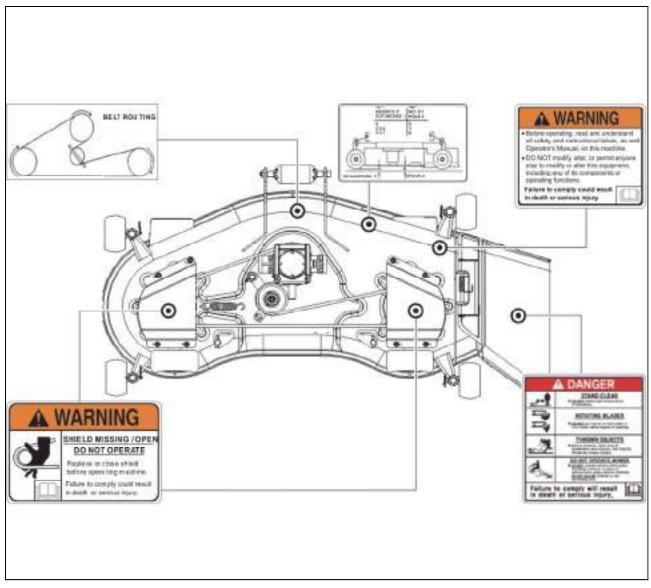
PRIMOHT20NC_0056

Located on the front of the weldment of the mower deck

- 1- 1/2 CLEARANCE
- 2- Hole A GROUND

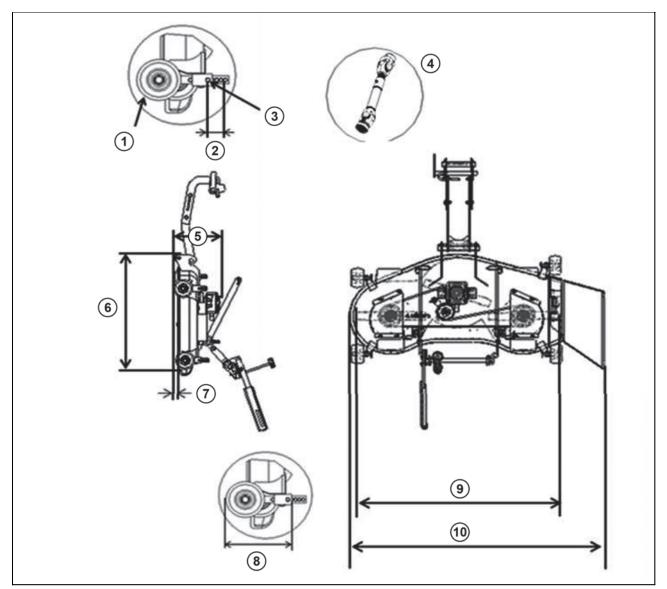


PRIMOHT20NC_0055



PRIMOHT20NC_0057

Technical data of the middle mower deck



PRIMOHT20NC_0058

- 1-4 WHEELS
- 2-7 HOLES 50.8 mm (2 inches)
- 3- Cutting Height Indicator
- 4- Universal Joint
- 5- 290.4 mm (11.4 inches)
- 6-874 mm (34.4 inches)
- **7-** 18 mm (0.7 inches)
- 8- 216 mm (8.5 inches)
- **9** 1,370 mm (54 inches)
- 10-1,689.5 mm (66.5 inches)

MODEL	MM54			
Dimensions	Length (mm)	34.4		
	Width (mm)	66.5		
	Height (mm)	11.4		
Working width	(inches)	54		
Cutting height	1 ~ 4			
Transport heig	5.6			
Lift link type	Lower lift link			
Cutting height	Cutting height indicator			
Wheel height	Hole	7 EA		
	Gap between hole (inches)	0.5		
	Total hole (inches)	3		

MODEL	MM54
Number of blades	3 EA
Blade tip speed (rpm)	14,601
Blade length (inches)	18.5
Nominal power hp	18 ~ 20
Mower deck thickness (inches)	0.13
Weight (lb)	186
Universal joint (mm)	Ø21.6X470L
Wheel	4 EA
Auxiliary wheel	1 EA
Belt	V-belt
Color	RED

Lubrication



Notice:

• It is not recommended to use pressure cleaning to clean the tractor assembly. High-pressure water can cause damage to spindles, pulleys, belts or bearings that shorten their service life and reduce uptime.

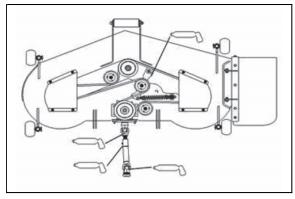
The service life of the mower depends on the maintenance provided. Proper lubrication is very important.

Always lubricate the mower deck and lifting parts before use.

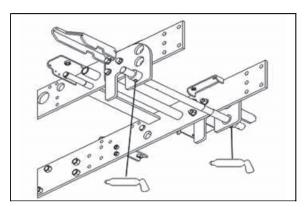
Always wipe the lubrication points with a clean cloth before lubrication. Dirt injected into the lubrication points can damage machine parts.

For all lubrication points listed below, use a SAE grade lithium-based multipurpose lubricant. Do not forget to wipe off excess lubricant that has accumulated around the parts.

Lubricate the lubrication points every 50 hours of operation. Various work parts that are not equipped with lubrication points must be treated daily with the grease of correct grade.

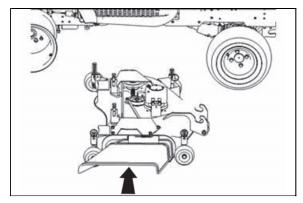


PRIMOHT20NC_0059



PRIMOHT20NC_0060

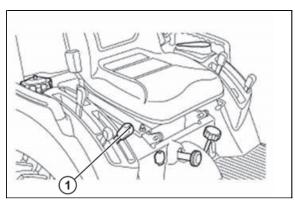
Mower Deck Adjustment



PRIMOHT20NC_0061



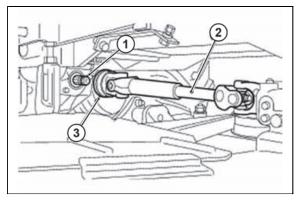
- Park the tractor on a firm, flat and horizontal surface, apply the parking brake, stop the engine and remove the key.
- 1- Hydraulic Control Lever



PRIMOHT20NC_0062

- 1. Start the engine and move the hydraulic lever backwards to lift the tractor rear link to the highest position.
- 2. Stop the engine and remove the key.
- 3. From the right, slide the mower deck under the tractor or drive the tractor over the mower deck.

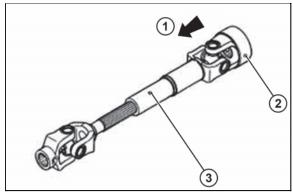
- 1- Mid PTO Shaft
- 2- Universal Joint
- 3- Coupler



PRIMOHT20NC_0063

Universal joint

- **1** A
- 2- Connection
- 3- Universal Joint



PRIMOHT20NC_0064

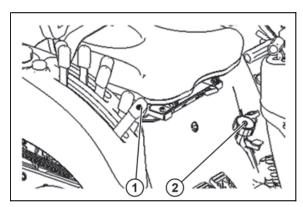
- 1. Pull the universal joint coupler backwards.
- 2. Push the universal joint on to the shaft of the mid PTO until the coupler is locks.
- 3. Try moving the universal joint back and forth to make sure it is securely locked.

NOTE

• Finally, pull the universal joint to make sure it is locked on the PTO shaft.

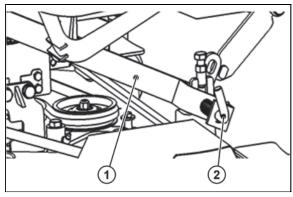
Rear Link

- 1 Hydraulics Control Lever
- 2- Cutting Height Control



PRIMOHT20NC_0065

- 1- Rear Link
- **2** L Pin



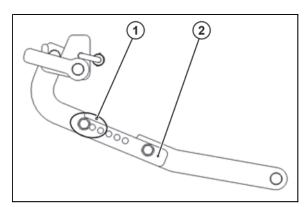
PRIMOHT20NC_0066

- 1. Set the cutting height adjustment control to zero inches.
- 2. Move the hydraulic control lever forward to lower the rear link.

Use the L pins to connect the rear link to the mower deck.

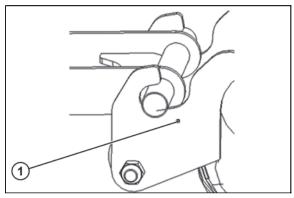
Front Link

- **1-** (L)
- 2 Front Link



PRIMOHT20NC_0067

1- Front Bracket Groove



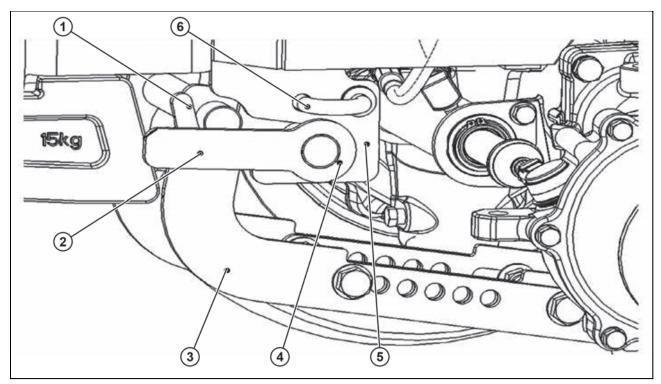
PRIMOHT20NC_0068

1. Hook the front link by the groove of the front bracket as shown in the figure.

NOTE

Make sure that the front link is placed in (L) position in the first or second hole.

Front Link Assembly



PRIMOHT20NC_0069

- 1- Lever Groove with Pivot Point
- 2- Front Lever
- 3 Front Link
- 4- Lever with Pivot Point
- 5- Front Link Bracket
- 6 U Pin
 - 1. Place the front lever to the front link bracket.
 - 2. Pull the U pin and secure it. Then lower the front lever.
 - 3. Hook the front link by the lever with the pivot point and lift the front lever.
 - 4. Release the U pin to secure the front lever.

NOTE

When the front link is hooked with the lever with the pivot point, the normal position of the lever groove with the pivot point is open down.



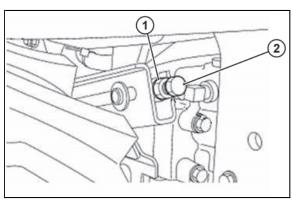
Notice:

• Check that the front lever is safely secured with the L pin.

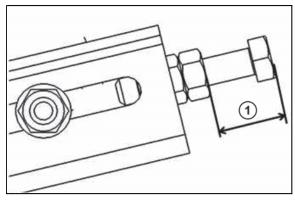
Mower Deck Settings 1- Lock Nut

- 2- Screw

1- 29 mm ± 3 mm



PRIMOHT20NC_0070

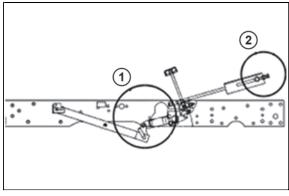


PRIMOHT20NC_0071

Screw and lock nut play: 29 mm \pm 3 mm

Link Settings

- 1- Checkpoint
- 2 Screw
- 1. The tire pressure must be correct.
- 2. Move the hydraulic control lever back to lift the rear mower deck to the highest position.
- 3. Stop the engine and remove the key.
- 4. Tighten the screw and nut to the play of 29 mm Lift link assembly



PRIMOHT20NC_0072

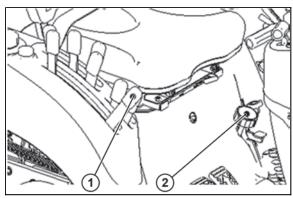


Notice:

- Park the tractor on a firm, flat and horizontal surface and apply the parking brake.
- Stop the engine, remove the key and wait for the blades to stop before making adjustments.
- When handling blades, wear thick gloves or wrap the tips of the blades with cloth.
- Before starting the engine, set the PTO clutch lever to the off position and the gear range shift lever to neutral.

	Factory specification				
29 mm ± 3 mm	0 to 0.5 mm (0 to 0.01 in.)				

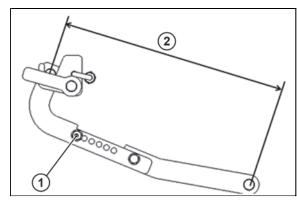
- * Set the height of the mower deck with the screw (initial setting position)
- 1 Hydraulics Control Lever
- 2- Cutting Height Control



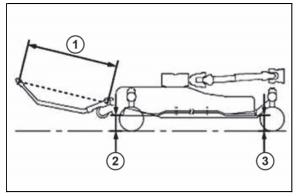
PRIMOHT20NC_0073

- 1- (3) Screw
- **2** L

- 1- L
- **2** F
- **3** R



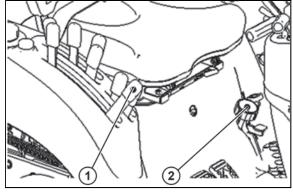
PRIMOHT20NC_0075



PRIMOHT20NC_0074

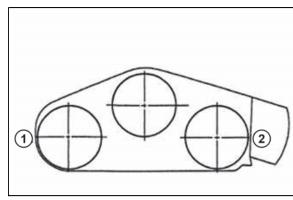
Front and Rear Cutting Height Adjustment 1 - Hydraulics Control Lever

- 2- Cutting Height Control



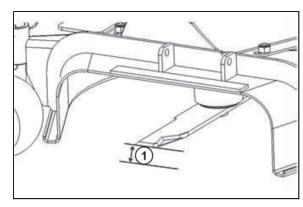
PRIMOHT20NC_0076

- 1- L: Position of measurement of the left blade
- 2- R: Position of measurement of the right blade



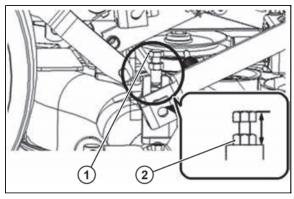
PRIMOHT20NC_0077

1- A: Blade height



PRIMOHT20NC_0078

- 1- Screw for precise adjustment of the cutting height
- 2- H Lock Nut



PRIMOHT20NC_0079

- 1. The tire pressure must be correct.
- 2. Check that the height of the mower blades is adjusted as shown below. Then tighten the lock nuts tightly.
- 3. Turn the cutting height adjustment control to "2.0" and the anti-scalp roller so that the ground clearance between the rollers and the surface is between 6 and 13 mm (0.25 to 0.5 inches).
- 4. Turn the right knife by hand parallel to the direction of travel.
- 5. Adjust (L) the front links with the lock nuts so that the distance A is 0 to 5 mm (0 to 0.2 inches) A = (R) (F).
- 6. If the difference between the front tip and the rear tip of the blade is not within the factory setting specification, adjust the L length of the front link using the screw (3). The height of the tip of the R rear blade should not be greater than that of the front.

NOTE

L - MM54: 530 mm ± 5 mm

Left and Right Cutting Height Adjustment

- 1. The tire pressure must be correct.
- 2. Move the hydraulic lever back to raise the mower deck to the highest position.
- 3. Stop the engine and remove the key.
- 4. Turn the control to adjust the cutting height to the required height.
- 5. Set the anti-scalp roller so that the ground clearance between the rollers and the surface is between 6 and 13 mm (0.2 to 0.5 inches).
- 6. Lower the mower deck by moving the hydraulic control lever forward.
- 7. Turn the left blade by hand so that it is parallel to the tractor axle and the right blade is parallel to the axle, and from outside measure the distance of the blade tip from the surface on the right and left side.
- 8. The difference between the measured values should be less than 3 mm (0.12 in).
- 9. If the difference between the values is greater than 3 mm (0.12 in), release the lock nut on the left side.
- 10. Adjust the cutting height using the exact cutting height adjustment screws so that the difference between the distances on the left and right is less than 3 mm (0.12 in). Then tighten the nut.

	Factory specification
	Less than 3 mm (0.12 in)
blade	

Fasteners torque table (ISO)

NOTE

If no special torques are specified, use these tightening torques. The values are for UNF threaded bolts, plated or unplated, according to the supplier's delivery. Fasteners can be dry or lubricated with normal engine oil. The values do not apply if graphite, moly-disulfide or other high-pressure lubricant is used.

ISO class number	8.8			10.9			12.9					
Screw head identification (see Note 1)												
Caravi ai-a	LB FT nM			LB FT		nM		LB FT		nM		
Screw size	Min	MAX	Min	MAX	Min	MAX	Min	MAX	Min	MAX	Min	MAX
M4	2	3	3	4	3	4	4	5	Due to the low flexibility of these fasteners, the tightening torque range must be determined individually for each application. In general, the tightening torque ranges specified for Class 10.9 fasteners can be safely applied to Fasteners 12.9			
M5	5	6	6.5	8	7	8	7.5	11				
M6	8	9	10.5	12	11	13	15	17.5				
M8	19	23	26	31	27	32	27	43				
M10	38	45	52	61	54	64	73	87				
M12	66	79	90	75	93	112	125	150				
*M14	106	127	144	172	149	179	200	245				
M16	160	200	217	271	230	280	310	380				
M20	320	380	434	515	450	540	610	730				
M24	500	600	675	815	780	940	1,050	1,275	* M14 is not the preferred			erred
M30	920	1,100	1,250	1,500	1,470	1,770	2,000	2,400	size			
M36	1,600	1,950	2,175	2,600	2,580	3,090	3,500	4,200				

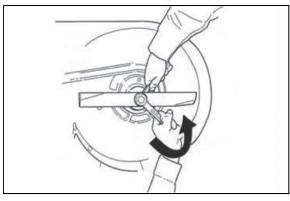
Parts Replacement



A worn or damaged blade may break and a piece of blade may be thrown into the operator's area or on a person in the vicinity, resulting in serious injury or death.

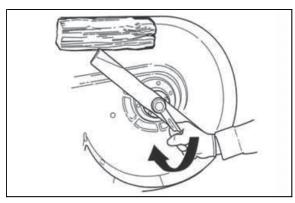
Blade Disassembly

Release



PRIMOHT20NC_0080

Tightening



PRIMOHT20NC_0081



- Do not work under the lifted mower deck unless it is secured by a hoist or jack.
- Avoid injury when handling blades, wear leather gloves or a blade protective cover.

To remove the blade, release the screw securing the blade with the screw wrench.

When removing the screw, a wooden block must be placed between the mower deck and the blade.

Blade Installation

When reassembling the blade, make sure that it is correctly oriented, the "wing" must point to the top of the mower deck.

Belt Replacement

The mower deck belts must be replaced after every 200 hours of operation or if the belts show signs of wear, breakage or other damage.

Remove the fasteners that secure the left/right belt cover to the mower deck.



The tensioning arm and tension pulley are under spring tension. Be careful when handling the tension arm assembly to avoid possible injury.

Insert the "breaker bar" into the square hole in the tensioning arm. Carefully push the tensioning arm to the left, away from the discharge hole, to release the tension of the belt. Remove the belt from the right spindle pulley, then carefully release the tensioning arm.

Remove the belt from the center spindle pulley.

Remove the belt from the first fixed tensioning pulley.

Remove the belt from the left spindle pulley.

Remove the belt from the tensioning arm pulley.

Remove the belt from the transmission pulley.

Remove the belt from the second tensioning pulley.

Remove the belt from the mower deck and discard.

Belt Replacement

Guide the belt 'back side' around the fixed tensioning pulley near the transmission.

Guide the belt around the transmission pulley.

Guide the belt around the tensioning arm pulley. The "back side" of the belt will be the contact point with the arm pulley.

Guide the belt around the left spindle pulley.

Guide the "back side" of the belt around the fixed tensioning pulley near the central spindle.

Guide the belt around the center spindle pulley.

Make sure that the belt is properly placed in each pulley, then insert the "breaker bar" into the square hole of the tensioning arm. Carefully push the tensioning arm to the left, away from the discharge hole, and release the tension. Place the belt on the right spindle pulley, then carefully release the tensioning arm.

Reassemble the left and right belt cover on the mower deck.

Transmission



Prior to operation, make sure that the transmission contains the correct amount of oil. If the oil level is too low or too high, the transmission damage may occur or injury may occur.

The oil level must always be checked after 24 hours of operation. After the initial 50 hours of operation, drain the oil and top up the required amount. After that, the oil should be changed every 250 hours of operation.

The drain plug is located on the transmission side opposite the fixed tensioning pulley.

Correct oil level to the center line of the drive shaft.

NOTES

Starting the Engine How to Start the Engine

- Check that there are no obstacles around the tractor.
- 2. Sit into the operator's seat and check that the parking brake is applied.
- 3. Make sure that the shift levers and the PTO switch are in neutral position.
- 4. Pull the manual throttle lever halfway.
- 5. Insert the key into the main switch and turn the switch to the "ON' position. Make sure that the engine oil light and the charge warning light are on.
- 6. Turn the main switch to the "START" position. As soon as the engine starts, release the switch.
- 7. Check that all monitoring lights go out when the engine is started.



Warning:

 Never start the engine by directly connecting the starter end or safety switch. The tractor may drive off unexpectedly and may cause an accident.

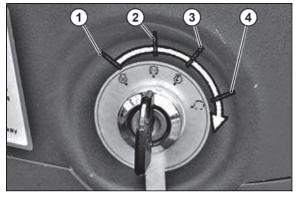
NOTE

If the brake pedal is not depressed, the engine will not start.

- If the engine is running, do not turn the main switch to the "START" position.
- Do not start the starter for more than 10 seconds. It consumes a lot of current.
- If the engine does not start within 10 seconds, wait 30 seconds and try again.
- The engine cannot be started unless the operator is sitting in the operator's seat. Start the engine from the operator's seat.

Switching the Engine Off

- 1 Glowing
- 2- Off
- **3** On
- 4- Starting



PRIMOHT20NC_0082

Switching Off

- 1. Let the engine idle.
- 2. Turn the main switch to the "OFF" position.
- 3. Remove the key from the switch.

NOTE

- · Do not stop the engine at high speed.
- If the engine has been running for a long time, stop it after letting it idle for 5 to 10 minutes.

Engine Idling

Engine Idling in General

After starting the engine, let the engine idle for 5 to 10 minutes to get the oil to all its parts.

NOTE

- . If the engine is loaded immediately after starting, it may stop and get damaged. First, let the engine idle.
- Failure to idle the engine may result in:
 - Hydraulic pump seizure
 - Hydraulic system failure.



- . Make sure the parking brake is applied when the engine is idling.
- Never let the engine idle in a poorly ventilated area. This can cause carbon monoxide poisoning.

The hydraulic oil in this vehicle is also used as a transmission fluid.

If the winter temperatures are low, the oil cools down, its viscosity rises. The hydraulic pump cannot suck in the oil, which causes a malfunction.

In winter, start idling the engine according to the following instructions:

Temperature	Idling time			
0 °C or higher (32 °F or higher)	At least 10 min			
0 ~ -10 °C (32 ° F ~ -50 ° F)	10 ~ 20 min			
-10 ~ -20 °C (-50 °F ~ -68 °F)	20 ~ 30 min			
-20 °C or less (-68 °F or less)	At least 30 min			

Run-in

During the first 50 hours of use of the machine, follow the instructions below:

- 1. Eliminate sudden start and sudden stop.
- 2. Avoid driving at excessive speed and excessive load.
- 3. Only drive the tractor if the engine has warmed up sufficiently.
- 4. Do not idle the engine at maximum speed.
- 5. After 50 hours of operation, check all parts and liquids.
- 6. To refill and replace engine oil, see Maintenance chapter.

Driving Off, Shifting and Driving Driving Off

- 1. Lift the implement.
- 2. Place the main shift lever, range shift lever and direction shift lever in the required position.
- 3. Release the parking brake by depressing the brake pedal.



Warning:

- The reverse speed is almost the same as the forward speed. Check the surrounding area carefully before reversing.
- Never reverse with the shift lever in the H position. Driving speed is high and an accident could occur.

Parking

- Use the manual throttle lever to set the engine speed low.
- 2. Slowly release the forward pedal (HST type) and the accelerator pedal (mechanical). Press the brake pedals to brake.
- 3. When the vehicle is completely stationary, move the shift lever to the neutral position.
- 4. Apply the parking brake.
- 5. If an implement is attached to the vehicle, lower it.
- After parking the vehicle, remove the key from the switch.



PRIMOHT20NC_0083

For parking brake operation, see Parking brake pedal chapter.



Warning:

- After parking, do not forget to apply the parking brake.
- If possible, do not park on a slope. If parking on a slope is absolutely necessary, secure the rear wheels with wedges.

Driving on a Slope Driving Off on a Steep Slope

- 1. Press the brake pedals.
- 2. Place the shift lever to the low speed position.
- 3. Use the manual throttle lever to set the engine speed to a medium value.
- 4. At the same time, release the parking brake pedal.

Tips for Driving on a Slope

- 1. Place the main shift lever in a low-speed position on the slope to avoid stopping the engine.
- 2. Keep the speed low when driving downhill.

NOTE

• If the needle on the coolant temperature gauge points to "H", the engine has overheated. If you continue to drive in this situation, serious damage to the engine components may occur. Take appropriate action immediately.

Precautions when Entering / Exiting a Field

- 1. Check that the left and right brake pedals are connected.
- 2. If there is a deep edge in the field, it is dangerous to enter/exit it. Use ramps.
- 3. Move perpendicularly to the edge.
- 4. When leaving the field, lower the implement so that the front wheels cannot be lifted.
- 5. To use full power, it is recommended to reverse into the field.



- When working on a slope, make sure to maintain the stability of the tractor. It may be lost and the machine may roll over.
- It is very dangerous to carry a person as a counter-weight on the front part of the tractor.

For detailed information on measures, see Safety Instructions for Users chapter.

Loading on Truck / Unloading

- 1. Reverse when loading the tractor on the truck.
- 2. Extreme care must be taken when using the ramp.
- 3. If the engine stops on the ramp, immediately depress the brake pedals and slowly release them to drive the tractor on the ground. Then start the engine again and drive on the ramp.

Precautions when Driving on the Road

- 1. When changing direction on the road, use turn signal lights to inform other drivers of your intention.
- 2. If you meet a vehicle in the opposite direction in the dark, use the low beam lights.
- 3. Check that the left and right brake pedals are connected.
- 4. When driving at night, switch off the work lights.
- 5. Drive safely.
- 6. Under no circumstances may another person be driving on the tractor except for the operator.



Warning

• If you drive on the road with implements attached, the front of the tractor tends to lift and it may not be possible to drive the machine properly.

Operation Check while Driving

Check that all components work properly while driving.

Engine Oil Pressure



If the engine oil level warning light comes on while driving, it may indicate a fault in the lubrication system. Immediately check the engine oil and, if necessary, have the vehicle checked by the service center.



If the battery charge warning light comes on while driving, the battery is not charged properly. In this case, check the condition of the battery and have it checked by a workshop if necessary.

Coolant

If the coolant gauge needle points to "H", stop the engine and check the following:

- Radiator coolant
- · Radiator fins for clogging
- Fan belt for looseness

If necessary, have the vehicle checked by the service center.

NOTE

When the coolant temperature warning light comes on, the engine is overheated. If the engine
continues to run under this circumstances, serious damage to the engine components may
occur. Take appropriate action immediately.

NOTES

WORKFLOW

Safety measures for handling implements

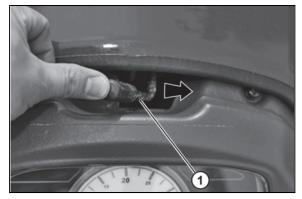
- 1. When connection and disconnecting implements to the tractor, make sure that there are no people between the tractor and the implement or around the tractor and implements.
- 2. Only connect and disconnect implements on a safe and flat surface.
- 3. When installing heavy implements, install weights on the front of the tractor.
- 4. When adjusting the implement, apply the parking brake beforehand, stop the engine, and set the PTO switch to the OFF position.
- 5. Use only towing equipment to tow anything.



- Carefully read the instructions on the implement's warning labels before starting work.
- To eliminate injuries caused by improper use of the implement, read the implement's operating instructions carefully and perform the work safely and carefully.
- Installing an improper implement can lead to injury. Only install implements specified by the manufacturer.

NOTES

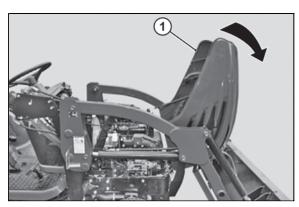
Covers Opening Hood Opening 1- Hood Unlock Lever



PRIMOHT20NC_0088

- 1. Slide the hook to the side. Then the hood opens with a click sound.
- 2. Raise the hood with your hands. Then the hood opens automatically and secures with a strut.

1 - Hood



PRIMOHT20NC_0089

Checked Items

To prevent any possible malfunctions, some items must be checked daily.

Check before driving.

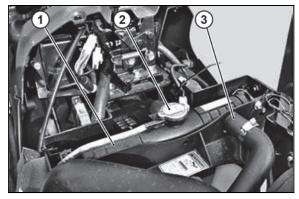
Checked Items

Check the individual parts in the following order:

- 1. Check the parts that had a malfunction the previous day.
- 2. Walk around the tractor and check:
 - Proper operation of lights and their possible damage
 - Proper tire inflation, whether they have cracks, are damaged or worn
 - Whether the screws and nuts on moving parts are not loose
 - Transmission fluid level
 - Implement connection condition
- 3. Open the hood and check:
 - Engine oil level
 - Radiator coolant level
 - Fan belt, whether it is not loose or damaged
- 4. Sit in the operator's seat, turn the main switch to the "ON' position and check:
 - Proper operation of the fuel gauge
 - Fuel level
 - Flashing of the engine oil and charging warning lights
 - Turn signal lights
 - Proper operation of horn
 - Brake pedal play
- 5. Start the engine, drive slowly with the tractor and check:
 - Emissions color
 - Brake pedal proper operation
 - Individual brake pedals proper operation
 - Steering wheel in terms of control effort and vibrations
 - Coolant gauge proper operation
 - Hydraulic control of the three-point hitch

Check and Change of Coolant Check and Change of Engine Coolant

- 1- Radiator
- 2- Input
- 3 Hoses Check



PRIMOHT20NC_0090

1. Check

Open the radiator cap and check that the radiator is filled with coolant up to the edge of the filler hole. If the amount of coolant is insufficient, refill.



• If the engine is hot, do not remove the radiator cap. Failure to do so may result in serious steam burns. Wait until the engine has cooled down sufficiently.

2. Antifreeze

Coolant freezing may cause damage to the engine. Clean the cooler thoroughly before adding antifreeze.

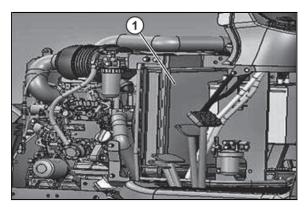
- The ratio of the antifreeze varies by manufacturer and temperature. See manufacturer's operating instructions.
- Before adding the mixture, mix the antifreeze with a sufficient amount of water.
- Refill of antifreeze mixture
 Evaporation add water.
 Leakage add a mixture of antifreeze and water in the same ratio.



• If the coolant gets on your skin, it may irritate it and cause skin disease. In this case, wash your skin with soap and water or hand cleaner.

Cleaning the Radiator and Radiator Grilles

1- Radiator Grille



PRIMOHT20NC_0091

When working in a grassy field or working at night, the radiator or condenser grille may become clogged with grass, stalks or insects, which may reduce the cooling capacity.

In this case, clean the grille. If there is dirt between the fan and the pipe, rinse the area with clean water.

NOTE

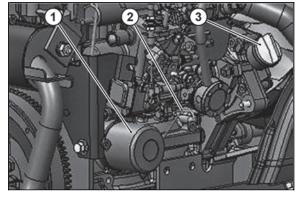
• Do not clean the radiator fins with a stream of water. This may deform the fins.

Oil Check and Replacement

Engine Oil and Replacement

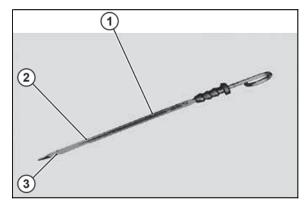
(1) Check

- 1. Pull out the dipstick, wipe and reinsert. Then pull it out and check that the oil level is between the upper and lower mark.
- 2. In case of insufficient amount of oil, refill.
- 1- Engine Oil Filter Element
- 2- Engine Oil Dipstick
- 3- Engine Oil Filter



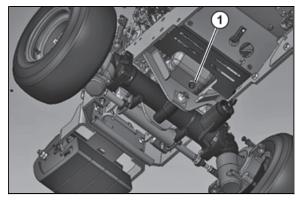
PRIMOHT20NC_0092

- 1 Engine Oil Dipstick
- 2- Upper Mark
- 3- Lower Mark



(2) Change

- Unscrew the drain plug at the bottom of the engine to drain contaminated engine oil.
 - As hot oil comes from the engine, be careful not to burn yourself.
- After draining the oil, screw the drain plug back on.
- Fill the specified amount of the specified engine oil through the filler hole.
- 1- Engine Oil Drain Plug



PRIMOHT20NC_0094

NOTE

- The amount of engine oil added must not exceed the upper limit.
- Before starting the engine, check the engine oil or do so 5 minutes after stopping the engine.
- If you want to use a different oil from a different manufacturer or oil with a different viscosity, drain the used oil completely before filling.

(3) Oil Specification

Oil for diesel engines: (API: CD/CF Tractor is supplied from the factory with 10W/30 oil)

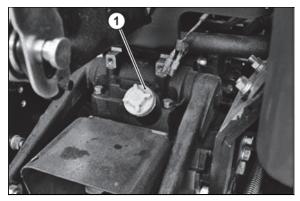


Notice:

- If engine oil comes in contact with the skin, it can irritate it and cause skin disease. In this case, wash your skin with soap and water or hand cleaner.
- Before draining the oil, make sure that the engine has cooled down sufficiently. When changing the oil immediately after stopping the engine, the engine is very hot and can cause burns.

Transmission Fluid Check and Change

1- Transmission Fluid Filler

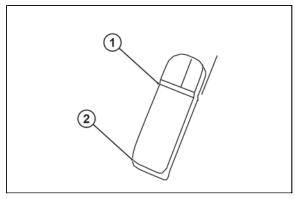


PRIMOHT20NC_0095

(1) Check

Check with the engine stopped.

- Check the transmission fluid through the sight glass to see if the level is between the upper and lower mark
- 2. In case of insufficient amount of oil, refill.
- 1- Upper Mark
- 2- Lower Mark

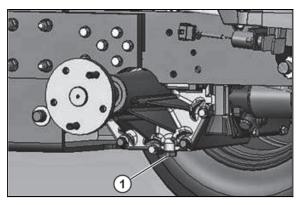


PRIMOHT20NC_0096

(2) Change

- 1. Unscrew the drain plug at the bottom of the transmission and drain the dirty transmission fluid. As hot fluid comes from the engine first, be careful not to burn yourself.
- 2. After draining the fluid, tighten the transmission fluid drain plug.
- 3. Fill the specified amount of the specified transmission fluid through the filler.

1 - Drain Plug



PRIMOHT20NC_0097

NOTE

- The amount of liquid added must not exceed the upper limit.
- Check the liquid before starting the engine or at least 5 minutes after stopping it.
- If you want to use a different fluid from a different manufacturer or fluid with a different viscosity, drain the used fluid completely before filling.

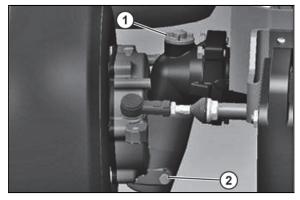


Notice:

• If transmission fluid comes in contact with the skin, it can irritate it and cause skin disease. In this case, wash your skin with soap and water or hand cleaner.

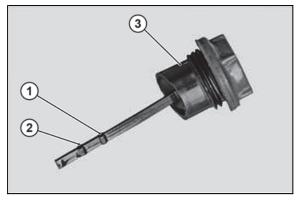
Front Axle Oil Check and Change

- 1- Front-Wheel Axle Oil Filler
- 2 Front Axle Oil Drain Plug



PRIMOHT20NC_0098

- 1- Upper Mark
- 2- Lower Mark
- 3- Level Dipstick



PRIMOHT20NC_0099

(1) Check

- 1. Pull out the dipstick, wipe and reinsert. Then pull it out and check that the oil level is between the upper and lower mark.
- 2. In case of insufficient amount of oil, refill.
- 3. There is one drain hole on each side of the front axle.

(2) Change

- 1. To drain the engine oil, unscrew the drain plugs at the bottom of the axle and the left / right final drives. As hot fluid comes from the engine first, be careful not to burn yourself.
- 2. After draining the oil, screw the drain plug back on.
- 3. Fill the specified amount of the specified oil through the filler hole.

NOTE

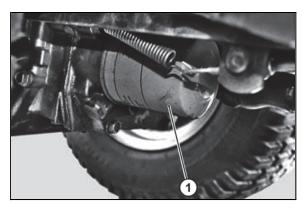
- The amount of front axle oil added must not exceed the upper limit.
- Check the front axle oil before starting the engine or at least 5 minutes after stopping it.
- If you want to use a different oil from a different manufacturer or oil with a different viscosity, drain the used oil completely before filling.



Notice:

- If oil comes in contact with the skin, it can irritate it and cause skin disease. In this case, wash your skin with soap and water or hand cleaner.
- Before draining the oil, make sure that the engine has cooled down sufficiently. When changing the oil immediately after stopping the engine, the engine is very hot and can cause burns.

Filter and Element Replacement Transmission Fluid Filter Element Replacement 1- HST Filter

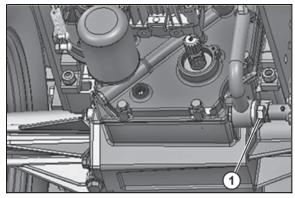


PRIMOHT20NC_0100

- 1. The hydraulic oil filter is located under the floor.
- 2. Remove the hydraulic oil filter element by turning it counterclockwise using the wrench.
- 3. Apply a thin layer of oil to the O-ring of the new element and install the new element by hand tightening.
 - As soon as the housing touches the sealing surface, turn it approximately by 2/3 turn with a wrench.
- 4. Fill the hydraulic oil to the specified level.
- 5. Check the oil level again using the dipstick. If the amount is still insufficient, add up.

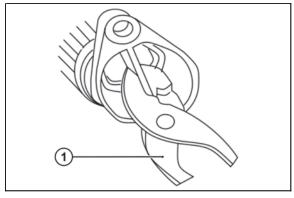
Cleaning the Transmission Fluid Dirt Trap

- 1. When changing the transmission fluid, clean it with diesel.
- 2. Unscrew the filter body holder from the lower right part of the transmission and carefully pull out the filter with pliers.
- 1 Dirt Trap



PRIMOHT20NC_0101

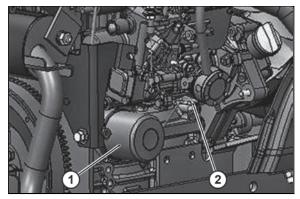
1- Pliers



PRIMOHT20NC_0102

Oil filter Element Replacement

- 1- Engine Oil Filter Element
- 2- Engine Oil Dipstick



PRIMOHT20NC_0103

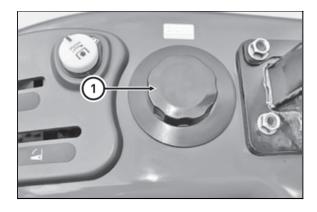
- 1. Remove the engine oil filter element by turning counterclockwise it using the filter wrench.
- 2. Apply a thin layer of oil to the O-ring of the new element and install the new element by hand tightening. As soon as the housing touches the sealing surface, turn it approximately by 2/3 turn with a wrench.
- 3. Fill the engine oil to the specified level.
- 4. Let the engine run for about 5 minutes and check for proper operation with the engine oil warning light.
 - Then stop the engine.
 - (This warning light should be switched off while the engine is running.)
- 5. Check the oil level again using the dipstick. If the amount is still insufficient, add up.

Fuel System

Use only low or ultra low sulfur diesel.

(1) Fuel Tank

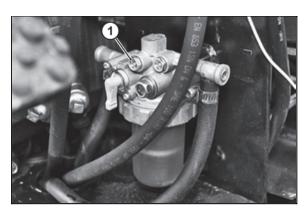
1- Fuel Tank Cap



NOTE

• If objects or materials, such as dust, sand, or water, are present in the fuel, it may degrade the performance of the fuel pump. Ensure that high-quality fuel is supplied through the dirt trap.

1 - Bleed Screw



PRIMOHT20NC_0105

(2) Fuel System Bleeding

The fuel system must be bled under the following conditions.

- The engine stops because the fuel has run out.
- The filter or pipe has been removed.
 - 1. Unscrew the bleed valve.
 - 2. Start the engine.
 - 3. Tighten the valve as soon as clean fuel flows out of the bleed valve.
 - 4. If the system has not been completely bled, repeat the procedure.

(3) Cleaning and Replacement of the Fuel Filter Element

This filter is used to remove foreign material and water from the fuel.

- 1. Set the fuel filter tap to the "OFF" position.
- 2. Loosen the round screw on the top of the cap to remove the cap.
- 3. Then flush the element with diesel to remove any foreign material.
- 4. If the element is heavily soiled, replace it.

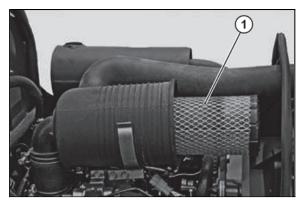
NOTE

• Clean or replace the fuel filter after 100 hours of operation.

Check and Cleaning of the Air Filter

Follow these instructions to check and clean the air filter:

1- Air Filter Element



PRIMOHT20NC_0106

Vacuum Valve Cleaning

• Pull out the valve by hand and clean the inner part with your hand.

If it is dirty or there is water inside, wipe it with a dry cloth before installation.

Instructions for Check and Maintenance of the Air Filter

- (1) Use a standard element and filter and do not apply oil to them.
- (2) Thoroughly clean all dust from the cover
- (3) Install it tightly so that dust cannot get under the cover.
- (4) Never drive with the element and the filter removed.

Air Filter Cleaning

1. Blow with the compressed air from the inside of the element towards the outside.

Keep the correct distance between the air nozzle and the element.

Air Filter Replacement

Replace the air filter after cleaning it 5 times or if it is damaged.

NOTE

- Make sure that the element does not fall on stone or concrete when cleaning.
- Make sure the element is installed firmly.
- Tighten each part of the air filter to completely eliminate the ingress of dirt.

Lubrication Points

For general lubrication points, see fuel, oil and fluid specification diagram. If the tractor is to be used for work in a wet field, apply lubricant before use.

Lubricating Arm

To access the lubrication point, remove the rubber covers on the floor and instrument panel. Refill lubricant with the supplied grease gun.

Hoses Check

Rubber parts, such as the fuel hose and radiator hose, age over time, even when the tractor is not in use. Therefore, these parts must be replaced, including the cable ties, every two years or if damaged.



Warning:

• If a hose is damaged, the fuel is leaking and a fire may occur. Make sure to check the hoses and take the necessary measures if necessary.

Electric System Check Battery Check and Charging



Danger:

- When the battery is removed from the tractor and charged, hydrogen gas is released, which
 poses a risk of fire. Charge the battery only in a well-ventilated area.
- The battery produces highly flammable hydrogen gas, which can explode. Keep flammable and combustible objects away from the battery.
- The battery electrolyte is sulfuric acid and can burn your skin and eyes. Be careful not to spill
 it.



Danger:

• If the battery electrolyte gets in your eyes, on your skin, clothing, or an object, rinse the affected areas thoroughly with water. If swallowed, drink plenty of water. If acid gets in your eyes or is swallowed, see a doctor immediately.

Check

- Check of the battery charge level
 If the battery is not used for more than two weeks, it
 can be difficult to start the engine. In this case,
 recharge the battery.
- 2. If the battery terminal is corroded, it cannot supply power. If it is corroded or dirty, treat it with sandpaper or a brush.



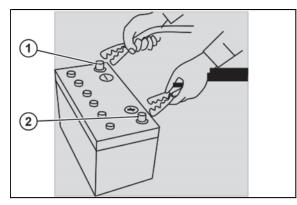
PRIMOHT20NC_0107

Battery Specifications

12 AT 45 AH (20 HOURS)

Recharge

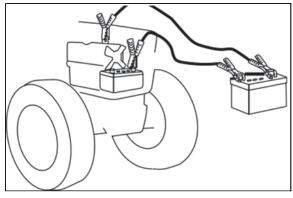
- 1. Turn the ignition switch to the 'OFF' position and disconnect the battery from the tractor.
- 2. Recharge the battery in a well-ventilated area.
- 3. Charge the battery in the normal way, do not use fast-charging.
- 4. Turn the charging switch to the OFF position and connect correctly the cables to the negative and positive terminals of the battery.
- 5. When using the charger, the charging current should be less than 10 A.
- 1- Negative (-) Terminal (Black)
- 2- Positive (+) Terminal (Red)



PRIMOHT20NC_0108

Starting with an External Battery

- 1. Turn off all electrical equipment.
- 2. Use a jump lead to connect the positive terminal of a normal battery to the positive terminal of the discharged battery.
- 3. Use a jump lead to connect the negative terminal of the charged battery to the tractor engine body of the tractor with the discharged battery.
- 4. First start the engine of the vehicle with the charged battery.
 - Then start the engine of the tractor with the discharged battery.
- When the engine is started, disconnect the negative terminal first.
 Then disconnect the positive cable.
- 6. Charge the discharged battery after starting the engine for approximately 30 minutes.



PRIMOHT20NC_0109



Warning:

• Do not forget to connect the positive terminal first and connect the negative terminal to the engine body of the tractor with the discharged battery.

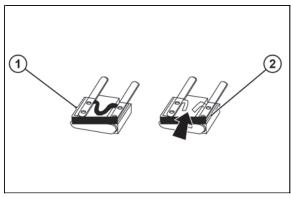
Electric Connection Check

- (1) Loose wire connections may cause contact failure and damaged wiring can lead to degraded electrical equipment performance, short circuit and fire. Replace or repair damaged wiring.
- (2) If the cable insulation is damaged, wrap it with insulating tape.
- (3) If the fasteners or cable ties are damaged, secure the cables with clamps.
- (4) To eliminate fire, have the wiring checked regularly once a year at the service center.
- 1 Fuse Box



PRIMOHT20NC_0110

- 1- Normal Condition
- 2- Open Circuit



PRIMOHT20NC_0111

Fuse Check and Replacement

Fuse Box

Fuses are installed on the tractor to eliminate a possible accident in the event of an electrical circuit failure.

If the electrical system does not work while driving, check that the fuse is not blown.

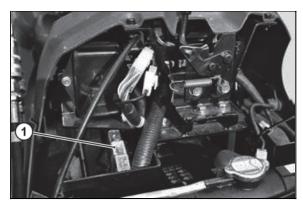
- 1. Remove the fuse box cover.
- 2. Remove the blown fuse.
- 3. Install a new fuse with the same rating.
- 4. The function and rupture capability are indicated on the fuse box cover.



If a fuse other than the one specified is used, the wiring may overheat and cause a fire. Never use a fuse with a different rupture capacity. Never use steel wire or foil instead of a fuse.

High Capacity Fuse (50 A)

1- High Capacity Fuse



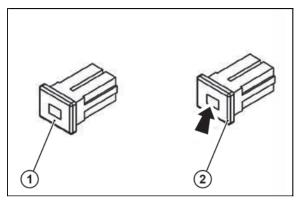
PRIMOHT20NC_0112

For electrical wiring, the tractor is equipped with three fuses.

To protect the electrical circuit, the fuses will blow and the power supply will be disconnected. Determine the cause of the blown fuses and replace them with the original spare ones.

Check

- 1- Normal Condition
- 2- Open Circuit



PRIMOHT20NC_0113

You can check whether the fuse is blown through the transparent window.

Light Bulb Replacement

If a light does not turn on when the corresponding switch is switched on:

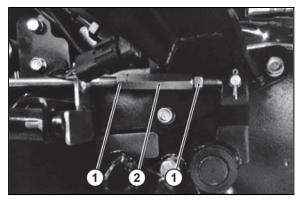
- 1. Check the corresponding fuse.
- 2. If the fuse is OK, remove the bulb from the light.
- 3. Remove the bulb from the socket and check for burnt filaments.
- 4. If the filaments are burnt, replace the bulb with a new one of the same value.

Bulb	Specification
Headlight	12 V H 8 35 W
Turn Signal Light (left)	12 V 21 W
Turn Signal Light (right)	12 V 21 W
Position Light	12 V 5 W

Check and Adjustment of Parts Check and Adjustment of Brake Pedal

1- Lock Nut

2- Swivel Buckle



PRIMOHT20NC_0114

If the brake pedal is used for a long time, its play increases. If the paly is too large, adjust it.

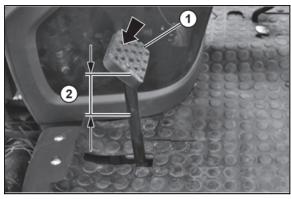
Adjustment

- 1. Unscrew the lock nut and turn the play adjustment nut (left and right).
- 2. Turn counterclockwise to increase the play, turn counterclockwise to decrease the play.
- 3. When the adjustment is complete, tighten the lock nut firmly.

Brake Pedal Play

1- Pushing

2- Play 11.8 ~ 15.7 in (30 ~ 40 mm)



PRIMOHT20NC_0115

Push the pedal lightly with your hand and find out what the play is.

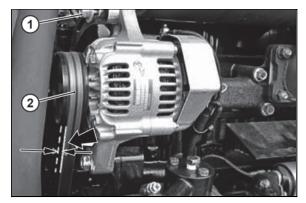
Division	Value
,	11.8 ~ 15.7 in (30 ~ 40 mm)



• After setup, confirm the operating status.

Check and Adjustment of the Fan Belt

- 1- Mounting Screw
- 2- Fan Belt
- **3** 0.28 ~ 0.35 in (7 ~ 9 mm)



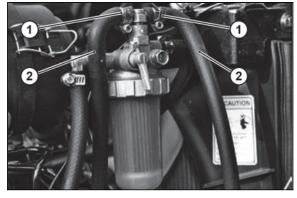
PRIMOHT20NC_0116

Check and adjust the fan belt tension regularly.

- 1. Loosen the alternator retaining screw and slide the alternator to adjust the tension.
- 2. Check belt tension. Push on the center of the belt with a force of $13.2 \sim 15.4$ lb (6 ~ 7 kg). If the belt bends by $0.28 \sim 0.35$ in (7 ~ 9 mm), it is OK.

Check of Fuel Hose (Main Fuel Filter)

- 1- Clamp
- 2- Fuel Hose



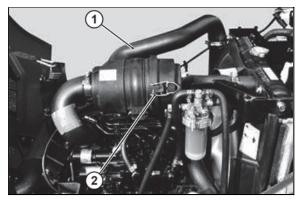
PRIMOHT20NC_0117

Check the fuel hose as follows:

- 1. Stop the engine. After the engine has cooled down sufficiently, open the hood.
- 2. Check the fuel hose for damage or fuel leaks. Replace, if necessary.
- 3. Tighten the clamp.

Check of Air Filter Hose

- 1 Air Filter Hose
- 2- Clamp



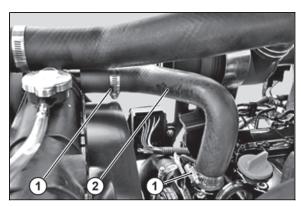
PRIMOHT20NC_0118

Check the air filter hose as follows:

- 1. Stop the engine. After the engine has cooled down sufficiently, open the hood.
- 2. Check the air filter hose for damage or leaks. Replace, if necessary.
- 3. Tighten the clamp.

Check of Radiator Hose

- 1- Clamp
- 2- Radiator Hose
- 1- Clamp
- 2- Radiator Hose



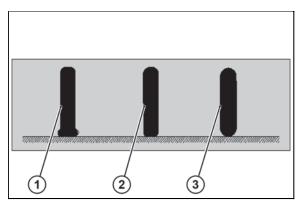
PRIMOHT20NC_0119

Check the radiator hose as follows:

- 1. Stop the engine. After the engine has cooled down sufficiently, open the hood.
- 2. Check the radiator hose for damage or leaks. Replace, if necessary.
- 3. Tighten the clamp.

Tire Inflation Pressure

- 1- Insufficient Pressure
- 2- Normal Pressure
- 3- Excessive pressure



PRIMOHT20NC_0120

Check that the pressure in the front and rear tires is correct. If not, adjust according to the specification.

Tire	Normal	Pressure (kg/cm²) / psi
Item	Specification	
Turf Front	TURF F 18X8.50-10	1.5 / 21
Turf Rear	TURF 26X12.00-12	1.4 / 20



• Maintain the prescribed tire pressure to prevent an accident or even death due to a flat tire.

Checks and Service General Information

This section provides detailed information about the service procedures necessary to maintain trouble-free operation of the machine. Specific values for individual tasks can be found in the attached table.

Service Inspections

Service inspections are performed as follows:

The first service inspection when the hour meter is at a maximum of 50 hours of operation, but no later than within 6 months from the commissioning of the tractor.

The second service inspection after another 450 hours of operation (with a maximum of 500 hours of operation), but no later than 12 months after the first service inspection.

Further service inspections always after another 500 hours of operation, but no later than 12 months from the previous service inspection.

Engine Oil and Filter Change

The first change of the engine oil when the hour meter is at a maximum of 50 hours of operation, but no later than within 6 months from the commissioning of the tractor.

The second change of the engine oil after another 200 hours of operation (with a maximum of 250 hours of operation), but no later than 12 months after the first service inspection.

Further engine oil changes, always after another 250 hours of operation, but no later than 12 months after the previous service inspection.

Performing service inspections is part of tractor maintenance.

Authorized Zetor services will provide you with professional inspections according to the manufacturer's instructions.

Periodical Check and Service Table



- Only check or adjust parts with the engine stopped.
- If a service operation is required on a hot part, wait for it to cool down.

Caution: These intervals are for operation under normal conditions and need to be reviewed under severe conditions to a greater frequency.

O Check, top-up or adjust,

X Replace,

XX First replacement

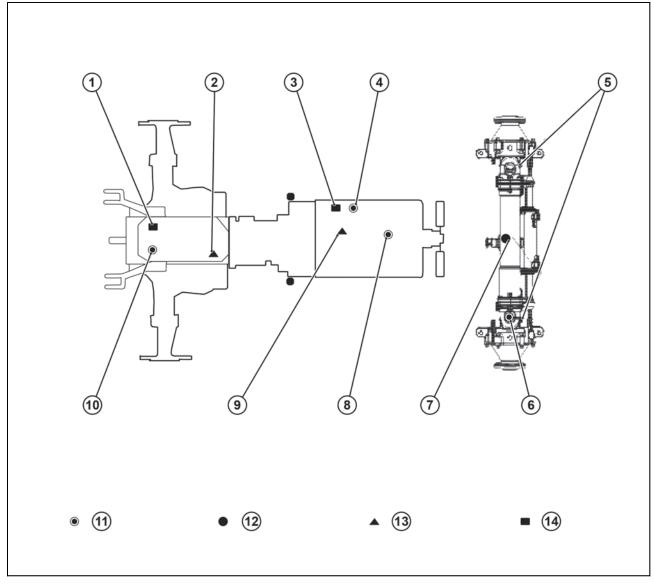
Unit	Item	Service	interva	al (hour	meter	, mark)					Note:
		Daily	50	100	200	250	300	400	500	600	
	Engine oil and filter	0	xx			х			х		Exchange every 250 hours of operation / year
	Fuel filter cleaning / replacement	0							х		
	Coolant	О									Every two years
Engine	Air Filter			0	0		0	o	х	0	
	V-belt		О								Replacement as needed
	Battery			О	О		О	0	О	О	Replacement as needed
	Hoses and clamps					О			o		

Unit	Item	Service	Service interval (hour meter)					Note			
		Daily	50	100	200	250	300	400	500	600	
	Transmission oil and HST oil filter	0	xx			О			х		Exchange every 500 hours of operation / year
	Front axle oil		xx						х		Every two years
	Convergence					0			o		Play 2-6 mm
	Lubrication of all components		О								Every 50 hours of operation
Body	Brake pedals play	0									Play 30-40 mm
	Wheels tightening	0									
	Fuel control system adjustment					О			o		
	Rubber hoses					О			0		
	Electric lines check		0			О			0		Every year

Fuel, oil and fluid specification diagram.

- Engine Oil Check Hole
 Transmission Oil Drain Hole
 Engine Oil Check Hole
 Engine Oil Filler
 Drain Plug
 Front Axle Oil Filler
 Lubrication Point
 Engine Oil Filler
 Engine Oil Drain Hole
 Transmission Oil Filler
 Filler
 Lubrication Point

- 12 Lubrication Point 13 Drain Hole
- 14 Check Hole



PRIMOHT20NC_0121

	Part	Oil	L (gal)
No.			hst
1	Coolant	Antifreeze	3.5 (0.9)
2	Engine	Engine Oil Class Engine oil viscosity Select the appropriate engine oil viscosity based on the ambient temperature and the use of the SAE viscosity class table SAE 10W-30 SAE 15W-40 SAE 20 SAE 30 S	2 (0.53)
3	Transmission fluid	Tractor hydraulic fluids - API GL-4 - ISO VG 32	13.5 (3.57)
4	Front axle	Transmission oils - API GL-4 - SAE 80W/90	2.5 (0.66)
5	Fuel tank	Diesel EN 590	25 (6.6)

Recommended ZETOR service fillings
Engine - ZETOR 10W-40 L-SAPS
Transmission - ZETOR EXTRA 10W-30 STOU (hydraulic gearboxes, summer operation)
- ZETOR HM 32 (winter operation)
Front axle - ZETOR LS 80W
Plastic lubricant - MOGUL LA 2

STORAGE AND DISPOSAL

Tractor Storage

Short-term Storage

- (1) Store the tractor after it has been cleaned. Clean the tractor especially carefully after working with harrows or working in a wet field.
- (2) Make sure you have lowered the implement.
- (3) If possible, store the tractor indoors.
- (4) If you store the tractor outdoors, cover it.
- (5) For better starting, it is recommended to remove the battery from the tractor in winter and store it indoors.
- (6) If the outside temperature is below 0 $^{\circ}$ C, add antifreeze or drain the coolant completely to prevent the engine from freezing and cracking.
- (7) Remove the key and store it in a separate place.

Long-term Storage

Clean the tractor thoroughly and store it as follows:

- (1) Change the engine oil with a new one and let the engine run for 5 minutes so that the oil is evenly distributed in all parts.
- (2) Drain the coolant from the radiator.

Place a "No coolant" sign on the steering wheel.

If the coolant contains antifreeze, it is not necessary to drain it.

- (3) Add oil, fluid and fuel to the individual parts according to the maintenance table.
- (4) Apply a thin layer of oil to parts of the body that are susceptible to rusting. (5) Check the tightening of individual screws and nuts, tighten if necessary.
- (6) Set the tire pressure to be slightly higher than the specifications.
- (7) Remove the weights. Disconnect or lower the implement.
- (8) Support the rear wheels with wedges.
- (9) Remove the battery from the tractor or switch off the power switch.
- (10) To protect the tires, place wooden blocks under them.
- (11) Recharge the battery every 2 months during long-term storage.
- (12) To protect against rain or snow, store the tractor in a dry place, cover the vehicle body.

STORAGE AND DISPOSAL

Use after a Long Downtime

Storage

After long-term storage, it is recommended to follow the instructions below when using the tractor.

- (1) Check the tractor thoroughly before driving.
- (2) To maintain good performance and long service life, let the engine idle for about 30 minutes after starting.

NOTE

- To lubricate the engine, run the engine once a month for 5 to 10 minutes at 1,500 to 2,000 rpm.
- Remove the key from the tractor and store it on outside the vehicle.



- If the battery remains connected to the tractor, switch off the power switch.
- If rodents have damaged the wiring, a short circuit can cause a fire.

Use and Disposal

To protect the environment, it is recommended to:

- (1) Avoid overloading, which can lead to partial combustion and can produce air pollutant emissions.
- (2) When changing the oil, including engine oil, transmission fluid, hydraulic oil and coolant, be careful not to spill the fluids. Dispose the used oil in accordance with applicable law. Used oil should be handled with care and disposed of properly, as it may contaminate soil and water.
- (3) If the machine has reached the end of its service life, do not ignore it or dispose of the machine yourself, but contact your dealer so that the machine can be disposed of in accordance with the law by an authorized service provider.

Engine Faults

FAULT		PROBABLE CAUSE	SOLUTION
		PTO switch set to ON position	Set the PTO switch to OFF position
	The starter	Defective safety switch	 Have it repaired by an authorized service
	does not run	Dead battery	Charge the battery
	even when the main switch is turned	Loose cable	 Check for looseness and corrosion. Clean, tighten and apply grease
	turrieu	Defective switch	Have it repaired by an authorized service
		Defective starter	Have it repaired by an authorized service
	The starter is running, the rotation speed cannot be increased	Low battery	Charge the battery
Engine		Poor grounding	Clean the contact and ground properly
		Incorrect engine oil viscosity	Replace with engine oil of the correct viscosity
		Air in the fuel system	Bleed the system
	The starter is	 Clogged fuel filter 	Clean or replace the filter
	running, but	 No fuel supply 	Open the fuel supply
	the engine cannot be started	Defective engine	 Have it repaired by an authorized service
		Defective key shutdown unit	Have it repaired by an authorized service
	The engine	Air in the fuel system	Bleed the system
	runs irregularly	Clogged fuel filter	Clean or replace the filter

Engine Faults

FAULT		PROBABLE CAUSE	SOLUTION
		 Clogged injection nozzle 	 Have it repaired by an authorized service
	The engine runs irregularly	Fuel leak from pipes	 Tighten the clamp, replace the pipe and attach the copper washer
		 Poor fuel injection quality 	 Have it repaired by an authorized service
		Defective injection pump	 Have it repaired by an authorized service
	Engine stops at	 Incorrect engine valve play 	 Have it repaired by an authorized service
	low speed	Low idle speed	Set to standard speed
		Defective nozzle	 Have it repaired by an authorized service
Engine	Engine overruns	Limited regulator	 Have it repaired by an authorized service
		Oil level increasing	 Have it repaired by an authorized service
		Low fuel level	Refuel and bleed the system
	Engine suddenly	Defective nozzle	 Have it repaired by an authorized service
	stops	 Engine seizures due to insufficient oil or poor lubrication 	 Have it repaired by an authorized service
		Insufficient coolant amount	Refill coolant
	The engine is	Damaged fan belt	Replace belt
	overheated	Clogged radiator	Clean the radiator
		 Insufficient amount of engine oil 	Check and refill

Engine Faults

FAULT		PROBABLE CAUSE	SOLUTION
		Clogged air filter	Check and clean
	The engine produces white	Excessive amount of engine oil	Check and set the correct amount
	smoke	Insufficient fuel supply	 Have it repaired by an authorized service
		 Poor fuel quality 	Add relevant fuel
	The engine produces black	Excess fuel delivery	 Have it repaired by an authorized service
	smoke	Insufficient nozzle pressure	 Have it repaired by an authorized service
		 The nozzle tip is clogged or has carbon on it 	Have it repaired by an authorized service
		 Insufficient compression or gas leakage from the valve seat 	Have it repaired by an authorized service
	Engine power is insufficient	Incorrectly adjusted valve play	Have it repaired by an authorized service
Engine		Incorrect injection timing	Have it repaired by a service center
		Low fuel level	Add fuel
		 Clogged air filter 	Clean the element
	The engine	 Low engine oil level 	 Refill to the specified level
	warning light comes on while	Low engine oil viscosity	 Replace with engine oil of the correct viscosity
	driving	 Defective pressure switch 	Replace the switch
	The engine oil warning light comes on while	Defective oil pump	 Have it repaired by an authorized service
	driving	Clogged oil filter element	Replace the oil filter
	The charging	Defective power line	 Check for loose or missing cable, short circuit, poor grounding, and repair as needed
	warning light comes on while	Defective alternator	Have it repaired by an authorized service
	driving	Defective battery	Replace the battery
		 Damaged alternator belt 	Replace belt

Brake system faults

FAULT		PROBABLE CAUSE	SOLUTION		
		 Brake pedal play too large 	Adjust the play		
Brake	The brake does not work or only one side brakes	 Worn or burned brake lining 	Have it repaired by an authorized service		
	one clas planes	 Different play on the left and right sides 	Set the same play on the left and right side		

Steering system faults

FAULT		PROBABLE CAUSE	SOLUTION
	The steering	 Incorrect convergence 	Adjust the convergence
wheel can be turned stiffly or	 Incorrect tire inflation pressure 	 Set the same specified pressure for the left and right tires 	
Steering	vibrates	 Vibration occurs on some steering joint 	Tighten or replace connected parts
system	The free	 Worn steering wheel shaft 	Have it repaired by an authorized service
	movement of the steering	Worn metal parts	Have it repaired by an authorized service
	wheel is too large	 There is a play on some joint of the steering 	Tighten

Hydraulic system faults

FAULT		PROBABLE CAUSE	SOLUTION
	Oil leaks from	Loose clamp	Tighten
	pipes or hoses	Cracked pipes	 Have it repaired by an authorized service
		 Lowering speed control lever in stop position 	Set it to the lowering position
	Hydraulic	Defective valve	 Have it repaired by an authorized service
	pressure cannot be reduced	Damaged cylinder	 Have it repaired by an authorized service
		 Damaged and trapped rotating part of the lifting shaft 	 Have it repaired by an authorized service
Hydraulic system	Hydraulic pressure cannot be increased	Insufficient engine speed	 Set the speed to 1,000 to 1,500 rpm
Sy 515		 Insufficient transmission fluid amount 	Refill to the specified level
		Air is sucked into the intake manifold	 Tighten the connections If any pipe or hose is cracked or the seal is damaged, replace it
		Oil filter plugged	Clean
		Faulty hydraulic pump	 Have it repaired by an authorized service
		Defective valve	 Have it repaired by an authorized service
		Damaged cylinder	 Have it repaired by an authorized service

Electrical system faults

FAULT		PROBABLE CAUSE	SOLUTION
FAULI			
Electrical System	The battery is not charging	Blown fuse	 Check the power lines and replace the defective fuse
		Defective power line	 Check for loose or missing cable, short circuit, poor grounding, and repair as needed
		 Defective alternator 	Have it repaired by an authorized service
		 Loose or damaged alternator belt 	 Adjust the belt preload or replace the cracked belt
		Battery malfunction	 Check that the terminals are not loose or corroded, or that there is a sufficient amount of electrolyte and take the necessary measures
	The lights are not bright enough	 Low battery charge level 	Recharge the battery
		 Poor contact on power lines 	 Check the grounding, clean and tighten clamps
	The light does not come on	Burnt out light bulb	Replace the bulb
		Blown fuse	 Check the power lines and replace the fuse
		Bad contact	Check the grounding and clean the clamps
	The turn signal light does not flash	Burnt out light bulb	Replace the bulb
		 Defective light interrupter 	Replace
		Bad contact	 Check the grounding and clean the clamps
	The work light	Burnt out light bulb	Replace the bulb
	does not come on	Bad contact	 Check the grounding and clean the clamps

APPENDIX

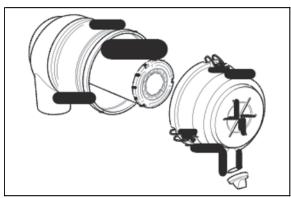
MODEL	PRIMO HT 20NC	
Engine	Engine manufacturer	Yanmar
	Engine model	3TNV74F-ND
	Engine type	4-stroke, inline, water-cooled, diesel
	Nominal power kW (HP)	14.2 (19)
	Rated engine speed, rpm	3,000
	Number of cylinders	3
	Displacement (cm ³)	60.6 (993)
	Air filter	Single dry
	Alternator	12 V 40 A
	Fuel system type	Indirect fuel injection
Driveline	Transmission type	HST
	Number of speeds	2 ranges
	Maximum speed	7.8 (12.5)
	mph (km/h)	
	Brakes	Wet disc
	Steering	Hydrostatic

MODEL	PRIMO HT 20NC	
Hydraulic System	Pump type	Single-speed pump with flow separator
	Implement pump capacity gpm (L/min)	4.17 (15.8)
	Power steering pump capacity gpm (L/min)	2.11 (8)
	Maximum total flow (L/min)	6.97 (26.4)
	Category, 3 point hitch	1(N)
	Lift capacity lb (kg)	1,100 (499)
	61 cm behind lift points lb (kg)	679 (308)
	Lift Control Type	Position
PTO	PTO type	Independent
	PTO control	Electrohydraulic
	Mid PTO	2,500
	Diameter	1 3/8 (35)

APPENDIX

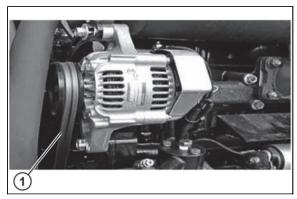
MODEL	PRIMO HT 20NC	
Volumes of Liquids	Fuel tank U.S gal.(L)	6.6 (25)
	Cooling system U.S qt.(I)	3.7 (3.5)
	Crankcase (with filter) U.S qt.(L)	2.1 (2)
	Transmission and hydraulic system U.S gal. (L)	3.6 (13.5)
	Front axle U.S qt.(L)	2.6 (2.5)
Dimensions	Total length with three- point hitch in (mm)	94.2 (2062)
	Total width in (mm)	44.5 (1135)
	Wheelbase in (mm)	53.1 (1360)
	Height to top of ROPS in (mm)	86.6 (2200)
Normal	Turf tires front	18X8.50-10, 4PR
Tires	Turf tires rear	26X12.00-12, 4PR
Tires	Industrial tires front	18X8.50-10, 4PR
	Industrial tires rear	26X12.00-12, 4PR
ROPS	Standard rollover protection structure	Anti-roll bar
	Total weight lb (kg)	1671 (758)

Set of elements



PRIMOHT20NC_0122

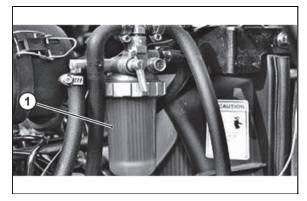
1 - V-belt



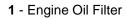
PRIMOHT20NC_0123

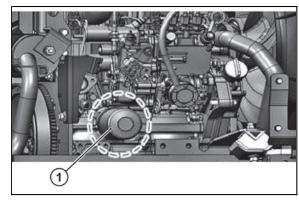
APPENDIX

1 - Fuel filter



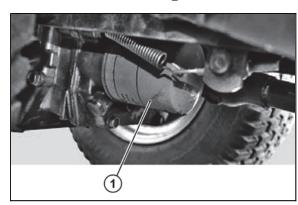
PRIMOHT20NC_0124





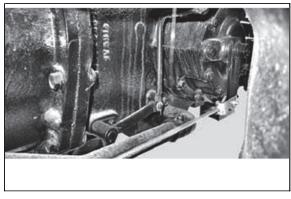
PRIMOHT20NC_0125

1- Filter Element



PRIMOHT20NC_0126





PRIMOHT20NC_0127

NOTES

INDEX

A	
About this manual	9
Air Filter Cleaning	104
Air Filter Replacement	104
Always use safety lights and devices	17
Appendix	125
Avoid high-pressure fluids	18
В	
Battery disconnect	19
Battery Check and Charging	105
Belt Replacement	82
Belt Replacement	82
Blade Disassembly	81
Blade Installation	81
Brake Pedal	47
Brake Pedal Play	109
Brake system faults	122
C	
Check and Adjustment of Brake Pedal	109
Check and Adjustment of Parts	109
Check and Adjustment of the Fan Belt	110
Check and Cleaning of the Air Filter	104
Check and Change of Coolant	95
Check and Change of Engine Coolant	95
Check of Air Filter Hose	111
Check of Fuel Hose (Main Fuel Filter)	110
Check of Radiator Hose	111
Checked Items	94
Checked Items	94
Checks and Service	113
Cleaning the Radiator and Radiator Grilles	96
Cleaning the Transmission Fluid Dirt Trap	101
Combined Switch	41
Control Pedals	48
Controls Operation	46
Coolant	89
Coolant Temperature Indicator Light	40
Covers Opening	02
Corolo Opermig	93
Cruise Control	93 56
Cruise Control	56
Cruise Control Cruise Control Switch D Diesel fuel	56
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal	56 45
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation	56 45 25
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S	56 45 25 50
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S	56 45 25 50 27
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation	56 45 25 50 27 26
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope	56 45 25 50 27 26 26
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off	56 45 25 50 27 26 26 87
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope	56 45 25 50 27 26 26 87 87
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving	56 45 25 50 27 26 26 87 87 87
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope	56 45 25 50 27 26 26 87 87 87
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check	56 45 25 50 27 26 26 87 87 87 87
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electrical system faults	56 45 25 50 27 26 26 87 87 87 87 107
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check	56 45 25 50 27 26 26 87 87 87 87 87
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electrical system faults	56 45 25 50 27 26 26 87 87 87 87 107
Cruise Control Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electrical system faults Engine Faults	56 45 25 50 27 26 26 87 87 87 87 107 105 124
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Faults	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Idling in General	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Idling in General Engine Oil and Replacement	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling in General Engine Oil and Replacement Engine Oil Pressure Exterior view	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96
Cruise Control Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling in General Engine Oil and Replacement Engine Oil Pressure Exterior view	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29
Cruise Control Switch D Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling in General Engine Oil and Replacement Exterior view F Fasteners torque table (ISO)	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front Axle Drive Shift Lever (4WD)	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front and Rear Cutting Height Adjustment	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front Axle Drive Shift Lever (4WD)	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front Axle Drive Shift Lever (4WD) Front Axle Oil Check and Change	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front Axle Drive Shift Lever (4WD) Front Axle Oil Check and Change Front Link	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29 80 101 78 51
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling in General Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front Axle Drive Shift Lever (4WD) Front Axle Oil Check and Change Front Link Front Link Assembly Fuel Gauge	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29 80 101 78 51 100 73
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front Axle Drive Shift Lever (4WD) Front Link Front Link Assembly Fuel Gauge Fuel System	56 45 25 50 27 26 26 87 87 87 107 105 124 119 120 121 86 86 96 89 29 29 101 78 51 100 73 74
Cruise Control Switch Diesel fuel Differential lock pedal Don'ts - for safe operation DO'S AND DON'T'S DO'S-for better performance Driving Off Driving Off on a Steep Slope Driving Off, Shifting and Driving Driving on a Slope E Electric Connection Check Electric System Check Electrical system faults Engine Faults Engine Faults Engine Faults Engine Idling Engine Idling in General Engine Oil and Replacement Engine Oil Pressure Exterior view F Fasteners torque table (ISO) Filter and Element Replacement Front and Rear Cutting Height Adjustment Front Axle Oil Check and Change Front Link Front Link Assembly Fuel Gauge	56 45 25 50 27 26 26 87 87 87 87 107 105 124 119 120 121 86 86 96 89 29 29 80 101 78 51 100 73 74

G General Information	113
	.
General informations	29
H	
Handle fuel safely-avoid fires	17
Help with Manual Use	57
High Capacity Fuse (50 A)	108
Hood Opening	93
Hoses Check	105
Hour Meter	39
How to adjust the seat	13
	····•
How to Start the Engine	85
Hydraulic system faults	123
1	
Implement Lifting Control System	54
Implement Lowering Speed Control Dial	55
Indicator Lights	42
Information Labels	66
	····
Instruments and Switches	37
Introduction to safety information	15
Introduction to safety instructions Introduction to safety	
instructions	15
K	
Keep riders off tractor	16
L	
	70
Left and Right Cutting Height Adjustment	79
Light Bulb Replacement	108
Link Settings	76
Loading on Truck / Unloading	88
Location of serial numbers	7
Long-term Storage	117
Lubricating Arm	105
	····
Lubrication	70
Lubrication Points	105
M	
Main Switch	38
Maintenance	93
Maintenance (1)	63
	64
Maintenance (2)	04
Manual Carana and dana and Carana Carana and a	~~
Mounting and demounting implements	22
Mounting and demounting implements Mower deck	57
	· · · · · · · · · · · · · · · · · · ·
Mower deck	57
Mower deck Mower Deck Mower Deck Adjustment	57 58 71
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings	57 58
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O	57 58 71 75
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement	57 58 71 75
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement	57 58 71 75 102 96
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement	57 58 71 75
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement	57 58 71 75 102 96
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation	57 58 71 75 102 96 85
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2)	57 58 71 75 102 96 85 61 62
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving	57 58 71 75 102 96 85 61 62 89
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General	57 58 71 75 102 96 85 61 62 89
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope	57 58 71 75 102 96 85 61 62 89
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope	57 58 71 75 102 96 85 61 62 89 59
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking	57 58 71 75 102 96 85 61 62 89 59 60
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope	57 58 71 75 102 96 85 61 62 89 59
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Parking Brake Pedal	57 58 71 75 102 96 85 61 62 89 59 60
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement	57 58 71 75 102 96 85 61 62 89 59 60
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping	57 58 71 75 102 96 85 61 62 89 60 87 48 81 114 18
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road	57 58 71 75 102 96 85 61 62 89 60 87 48 81 114 18
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Precautions when Entering / Exiting a Field	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation in General Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Precautions when Entering / Exiting a Field Preface	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Precautions when Entering / Exiting a Field	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation in General Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Precautions when Entering / Exiting a Field Preface	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precautions when Driving on the Road Precautions when Entering / Exiting a Field Preface Prevent acid burns Prevent battery explosions	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precautions when Driving on the Road Precautions when Entering / Exiting a Field Preface Prevent acid burns Prevent battery explosions Product Warranty	57 58 71 75 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57 19
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precautions when Driving on the Road Precautions when Entering / Exiting a Field Preface Prevent acid burns Prevent battery explosions Product Warranty Protection children	57 58 71 75 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57 19
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Entering / Exiting a Field Preface Prevent acid burns Product Warranty Protection children Pto	57 58 71 75 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57 19 18 7
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Preface Prevent acid burns Prevent battery explosions Product Warranty Protection children Pto PTO ON / OFF Switch	57 58 71 75 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57 19
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Preface Prevent acid burns Prevent battery explosions Product Warranty Protection children Pto PTO ON / OFF Switch	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57 19 18 7
Mower deck Mower Deck Adjustment Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Preface Prevent acid burns Prevent battery explosions Product Warranty Protection children Pto PTO ON / OFF Switch R Rear Link	57 58 71 75 96 85 61 62 89 59 60 87 48 81 114 18 68 89 57 19 18 7
Mower deck Mower Deck Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Preface Prevent acid burns Prevent battery explosions Product Warranty Protection children Pto PTO ON / OFF Switch	57 58 71 75 102 96 85 61 62 89 59 60 87 48 81 114 18 16 89 88 57 19 18 7
Mower deck Mower Deck Adjustment Mower Deck Adjustment Mower Deck Settings O Oil filter Element Replacement Oil Check and Replacement Operation Operation (1) Operation (2) Operation Check while Driving Operation in General Operation on the Slope P Parking Parking Brake Pedal Parts Replacement Periodical Check and Service Table Practice safe maintenance Precaution to avoid tipping Precautions when Driving on the Road Preface Prevent acid burns Prevent battery explosions Product Warranty Protection children Pto PTO ON / OFF Switch R Rear Link	57 58 71 75 96 85 61 62 89 59 60 87 48 81 114 18 68 89 57 19 18 7

INDEX

Roll-Over Protection Structure (ROPS)	
Rops (roll over protection structures)	11
ROPS damage	12
Run-in	86
S	
Safe operation of your tractor	21
Safe parking of the tractor	16
Safety instructions	15
Safety Labels	65
Safety starter switch	20
Safety Tips During Maintenance	21
Seat and Seat Belt	52
Service tractor safely	19
Short-term Storage	117
Signal words	15
Sliding Seat	13
Starting with an External Battery	106
Stay clear of rotating shafts	17
Steering system faults	122
Storage and disposal	117
Switching Off	85
Switching the Engine Off	85
Т	
Table of fillings change and service intervals	64
Tachometer	39
Technical data of the middle mower deck	68
The following precautions are suggested to help prevent	
accidents	23

Throttle Lever	47	
Tips for Driving on a Slope	88	
Tips for using the steering wheel with power steering	53	
Tire Inflation Pressure	112	
Tractor controls	37	
Tractor runaway	20	
Tractor Storage	117	
Transmission	83	
Transmission Fluid Filter Element Replacement	101	
Transmission Fluid Check and Change	98	
Transport	60	
Travel Speed	48	
Troubleshooting	119	
U		
Universal joint	72	
Use after a Long Downtime	118	
Use and Disposal	118	
Use of rops and seat belt	16	
Use of the Machine	57	
V		
Vacuum Valve Cleaning	104	
W		
Warning Lights Switch	41	
Warning Symbols	32	
Work in ventilated area	20	
Workflow	91	

Operator's manual Primo HT 20

Edition: 1-100-2020

Publication No.: 222.213.574

09/2020

ZETOR TRACTORS a.s.

Department of Technical Documentation

Trnkova 111 628 00 Brno







