

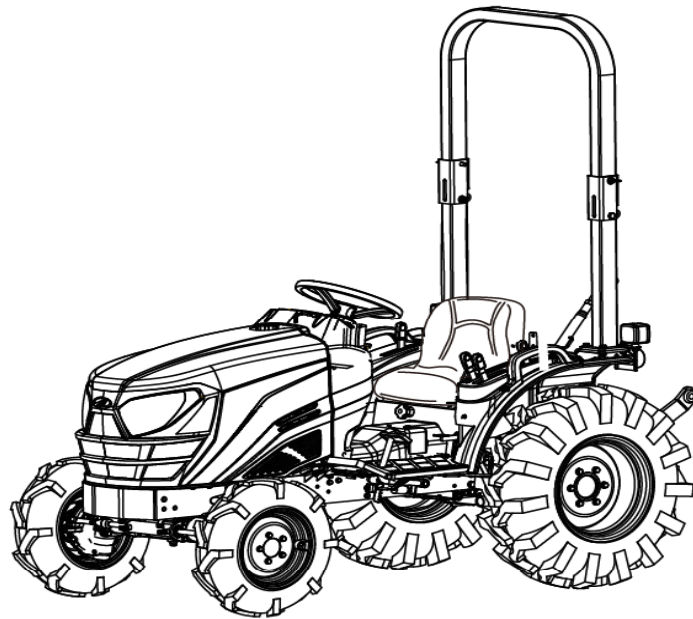
Mahindra
Rise.



Mahindra

TRACTORS
OPERATOR'S MANUAL

e Max 22 HST s
e Max 25 HST s



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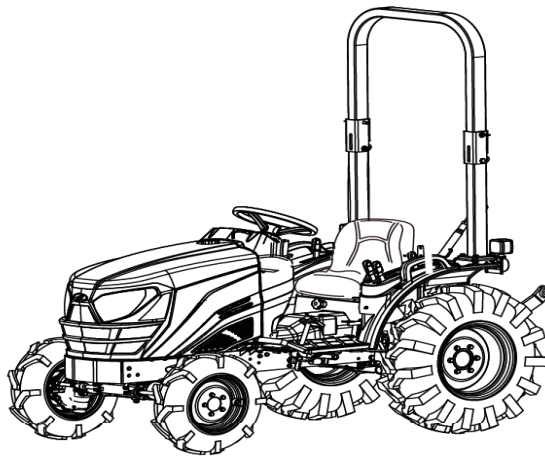
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► DAMAGE OF THE ROPS


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


After an accident, check for damages to the 1. ROPS. 2. Seat 3. Seat belt & seat mountings.


Before you operate a tractor, replace all damaged parts.



► DO NOT WELD, DRILL OR STRAIGHTEN THE ROPS

 Warning	Never attach chains or ropes to the ROPS for pulling purposes; this will cause the tractor to tip backwards. Always pull from the Tractor drawbar. Be careful when driving through door openings or under low overhead objects. Make sure there is sufficient overhead clearance for the ROPS to avoid fatal injuries.
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 Warning	If the ROPS is removed or replaced, make certain that the proper hardware is used to replace the ROPS and the recommended torque values are applied to the attaching bolts.
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 Warning	Always wear your seat belt if the tractor is equipped with ROPS.
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► THE FOLLOWING PRECAUTIONS ARE SUGGESTED TO HELP PREVENT ACCIDENTS.

A careful operator is the best operator.

Most accidents can be avoided by observing certain precautions .

Read and take the following precautions before operating the tractor to prevent accidents.

Tractors should be operated only by those who are responsible and properly trained to do so.

■ The Tractor

1. Read the operator's manual carefully before using the tractor.

Lack of operating knowledge can lead to accidents.

2. Use an approved rollover bar and seat belt for safe operation.

The overturning of a tractor without a rollover bar can result in death or injury.

3. **Do not remove the ROPS (Roll Over Protective Structure).** Always use the seat belt.

4. A fiberglass canopy does not give any protection.

5. To prevent falls, keep and platform clear of mud and oil.

6. Do not permit anyone but the operator to ride on the tractor.

There is no safe place for extra riders.

7. Replace all missing, illegible or damaged safety signs.

8. **Keep safety signs clean of dirt and grease.**

■ Servicing the tractor

1. Keep the tractor in good operating condition for your safety.

An improperly maintained tractor can be hazardous.

2. Stop the engine before performing any service on the tractor.

3. The cooling system operates under pressure, which is controlled by the radiator cap.

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

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

4. **Do not smoke while the refueling the tractor. Keep away any type of open flame.**

5. The fuel in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any part of the fuel injection system.

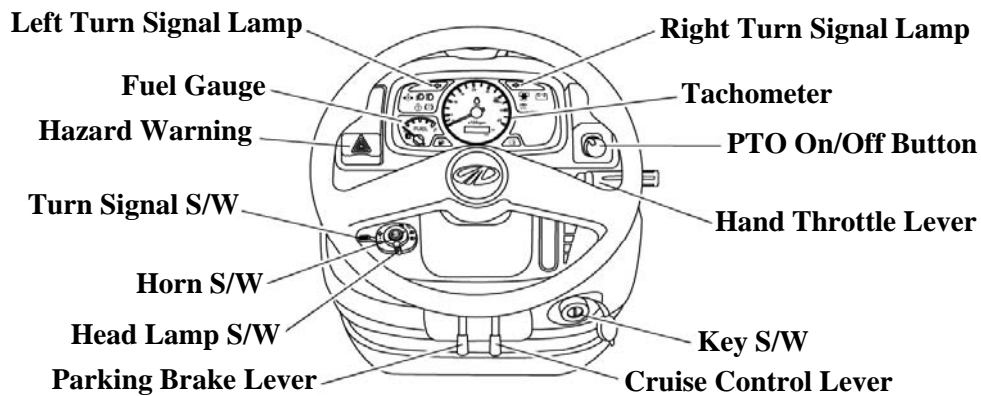
Failure to follow these instructions can result in serious injury.

6. **Keep open flame or cold weather starting aids away from the battery to prevent fire or explosions.**

7. **Do not modify or permit anyone else to modify this tractor or any of its components or tractor functions.**

DESCRIPTION OF TRACTOR CONTROLS

► INSTRUMENTS AND SWITCHES



► MAIN SWITCH (KEY SWITCH)

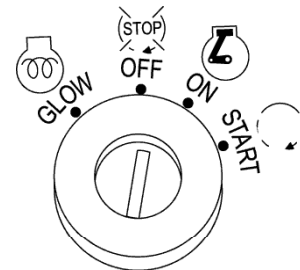
[OFF] - The key can be inserted or removed

[ON] - The electric circuit is on.

[GLOW] - Glow plugs preheat the combustion chamber

[START] - The starter motor is engaged.

When the key is released it will return to the ON position



► HEAD LAMP, TURN SIGNAL SWITCH AND HORN

■ HEAD LAMP SWITCH

High and low beams are operated on the main switch

Position ①. Low beam

Position ②. High beam

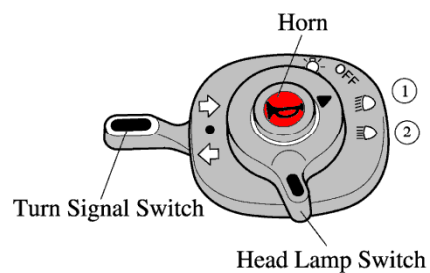
■ TURN SIGNAL SWITCH

Pull the turn signal lever down to signal a left turn.

Push the turn signal lever up to signal a right turn.

■ HORN

Push the Red button.



► **OPERATING THE HYDRAULICS**

The hydraulics are powered with an engine driven hydraulic pump and controlled with a position control lever mounted beside the driver.

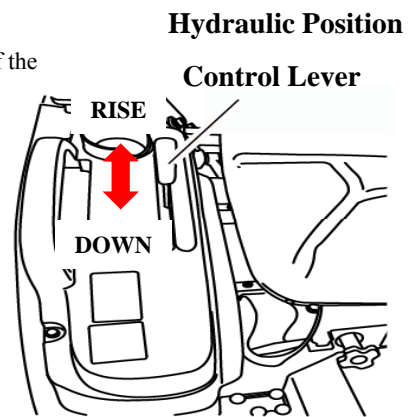
► **HYDRAULIC POSITION CONTROL LEVER**

The Hydraulic Position Control Lever is located on the RHS of the operator.

Implements can be raised and lowered with the hydraulic position control lever and can be stopped at any position by stopping the lever.

To raise the implement : Pull the lever backward.

To lower the implement : Push the lever forward.



Warning

After finishing the work, always lower the implement to the ground and switch off the engine, set the parking brake to avoid injuries and accidents.

► **LOWERING SPEED CONTROL KNOB FOR THE 3 POINT HITCH**

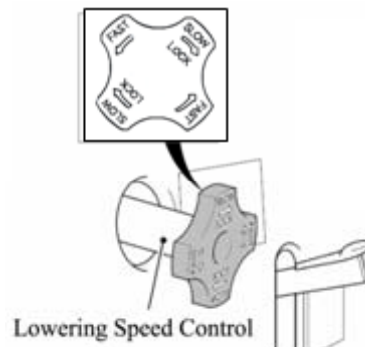
This knob controls the downward speed of the Hydraulic's three point linkage and is located below the seat.

To slow the downward speed, turn the knob clockwise.

To increase the downward speed, turn the knob counterclockwise.

To lock, turn the knob clockwise;


Do not over tighten the knob.

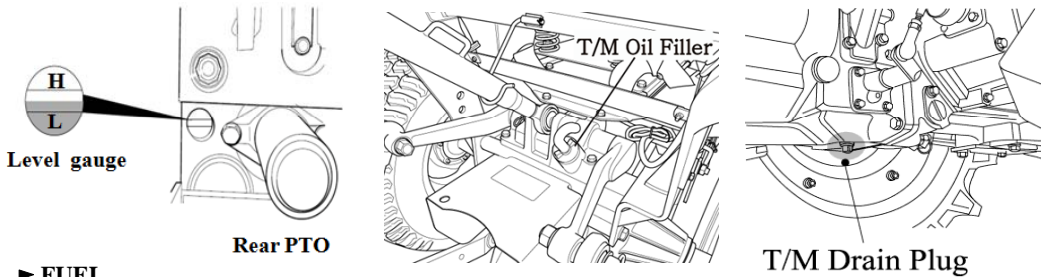


► **TRANSMISSION OIL**

Check the level with level gauge on rear of the transmission.

If the level is low add oil through the filler hole.

 Caution	Always ensure that you use the correct oil for topping off or oil changes
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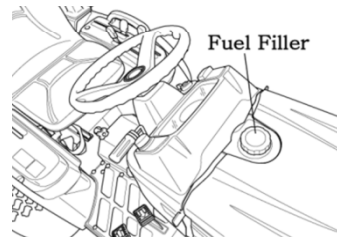


► **FUEL**

The Fuel Filler is located on the back side of bonnet.”

Keep the fuel tank as full as possible to minimize condensation.

It is a good practice to refill the tank immediately after use to avoid condensation



► **TIRE PRESSURE**


The air pressure used in the tires has a direct bearing on the life of the tire and its performance in the field.


Ensure that the tire pressures are correct and in accordance with the table on page 70.

To make a visual judgment see the drawing on the right.



Excess Standard Lack

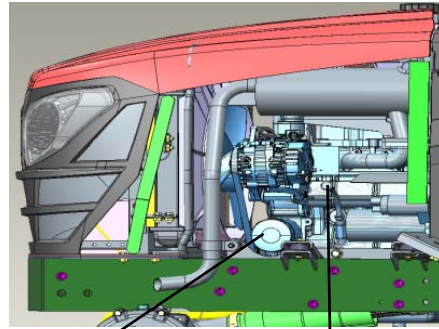
 Important	It is strongly recommended that tire pressures are checked with a proper gauge only & visual inspections are relied upon.
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 Danger	Excess tire pressure can cause accidents!
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► **ENGINE OIL FILTER CARTRIDGE**

Remove the filter with a filter wrench.

To replace, apply oil or grease on the seal, fit by hand until the seal contacts, then turn it a 2/3rd turn further to tighten it; check for leaks.

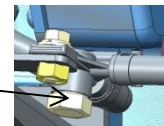
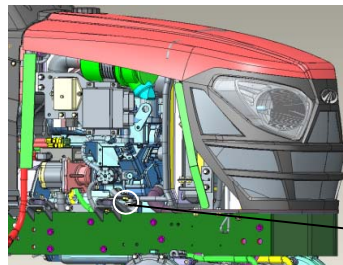
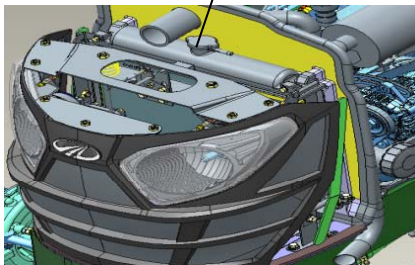


Engine Oil Filter Engine Oil Gauge

► **CHANGING THE COOLANT**

- (1) Open to drain cock.
- (2) Open the radiator at the same time.
- (3) To give a thorough clean, run a hose into the radiator and flush it out.
- (4) Close the tap and refill the radiator with a coolant mixture of water and corrosion inhibitor or anti freeze.
- (5) Start the engine and allow it to run for approx 5 minutes, check the water level again and top off if required.

Radiator Cap



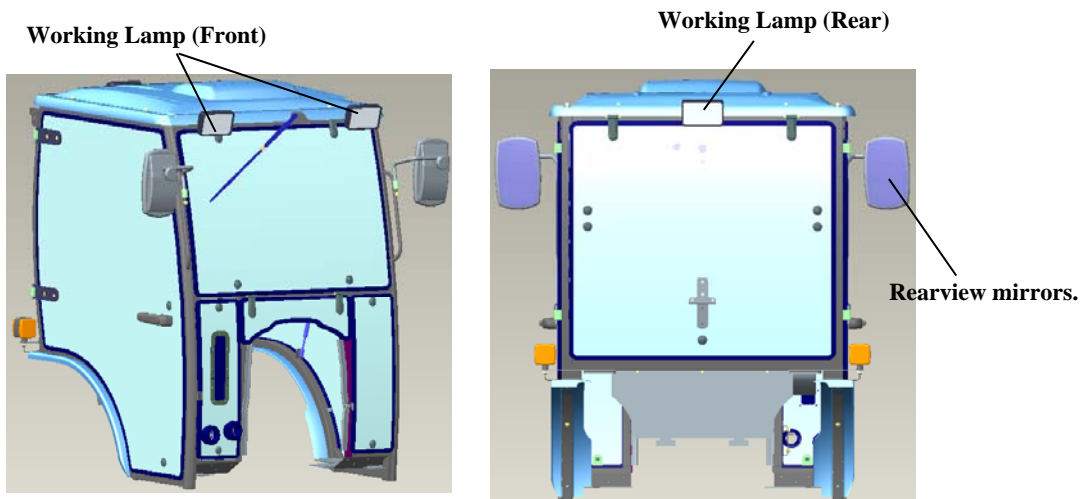
Drain Cock

 Caution	Do not remove the radiator cap on a hot engine. Allow the engine to cool down and then turn the cap slowly to ensure, that there is no excessive pressure in the radiator.
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 Caution	Serious burns can result from the contents of pressurized, hot radiators. Allow the engine to cool down completely before opening the radiator.
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■ **Working lamps (front and rear) :**

The working lamps are located on the cab roof (two in the front and one in the rear) .They are switched on by means of the switches on the roof console



■ **Rearview mirrors.:**

The cab is provided with rearview mirrors on both sides. They can be adjusted and folded, whenever necessary, to avoid interference with external obstacles.

The mirrors have a telescopic arm to allow positioning for maximum convenience by the user.

Remember that mirrors must always be positioned in compliance with road traffic regulations when driving on a public highway.

■ **Cab ceiling:**

The ceiling is padded with insulation material to block heat radiation into the cab and keep the temperature down when working in very sunny areas.

The cab platform is covered with a “firm grip” mat in the most commonly used areas.

It is recommended to keep this mat clear of earth, mud, etc. so that the operator may get on and off the tractor in full safety.

FAULT TRACKING

	SYMPTOM	CAUSE	REMEDY
Engine	Turning the main switch will not operate the starter	Clutch not pushed in Battery flat Switch faulty	Push the clutch in Charge or replace the battery Dealer to repair or replace Contact dealer to repair or replace
	Starter operates but not enough to turn the engine	Low battery Bad earth Thick oil	Charge the battery Clean the earth lead and tighten Drain and replace with correct oil
	Starter operates OK but does not start the engine	Air in fuel system Clogged fuel filter No fuel being supplied Glow plug disconnected or not working	Bleed the system Clean or replace both filters Fill tank or turn tap on Contact dealer for repair.
	Engine revolutions are irregular	Air in the fuel system Faulty injector Fuel pipe leak	Bleed the system Contact dealer for repair.
	The engine stops at low revolution	Poor fuel injection Faulty injection pump Wrong valve clearance Wrong idle setting Faulty injector	Contact dealer for repair Contact dealer for repair Contact dealer for repair Contact dealer for repair Contact dealer for repair
	The engine stops suddenly	Lack of fuel Faulty injectors Seized engine due to lack of oil, the wrong oil or lack of coolant	Fill the tank and bleed the fuel system Contact dealer for repair
	The engine overheats	Lack of coolant Broken or misadjusted fan belt Clogged air filter element Clogged radiator Low oil	Refill with coolant Adjust or replace Clean or replace air filter Clean the core Replace the oil to correct grade

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