

# MAHINDRA

T R A C T O R S

## OPERATOR MANUAL '16' Series 2816 Gear



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[INDEX](#)

[Main Menu](#)



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## SAFETY PRECAUTIONS

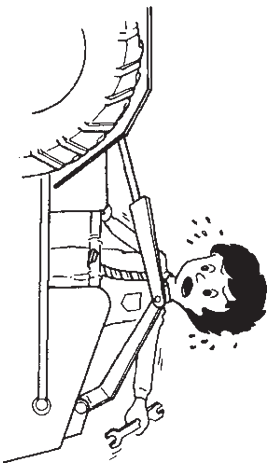
**REMEMBER: "SAFETY" IS ONLY A WORD UNTIL IT IS PUT INTO PRACTICE**

Improper handling of the tractor could cause an accident. Prior to the operation of the tractor, be sure to read this Manual carefully and have a thorough understanding of all of the contents. In particular, the instructions given in this section entitled "Safety Precautions" must be strictly followed.

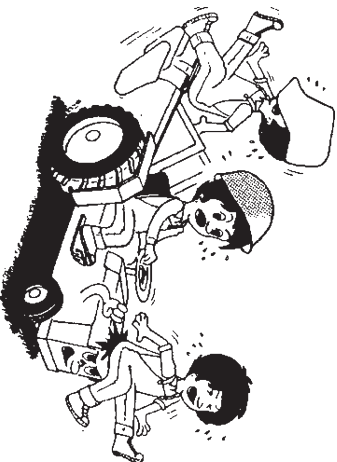
### A. GENERAL OPERATING SAFETY PRECAUTION

1. Observe all the safety precautions in this manual when operating the tractor.

2. Operate the tractor while wearing tight clothing that allows easy movement. Avoid loose jackets, mufflers, ties, scarves, or loose shirt sleeves to prevent from being caught by moving parts.



5. Never allow riders on the tractor, linkage drawbar or attachment while travelling and operating them.



### B. BASIC SAFETY REQUIREMENTS FOR MAINTENANCE

Always follow these maintenance instructions before operating the tractor:

1. Immediately repair the head lights and work lamps required to conform to traffic regulations where the tractor is operated.

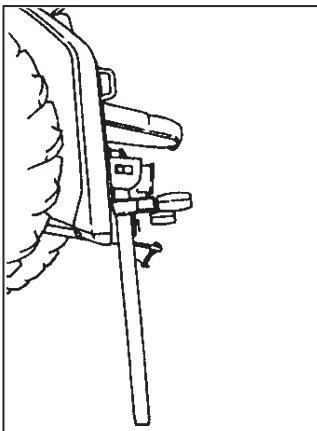
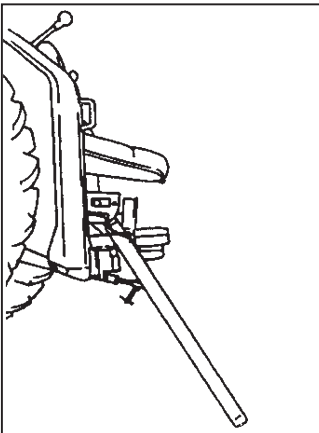
2. Keep tractor steps clean to avoid accidents due to slip-page.

3. Always work when you are in good physical condition by taking sufficient rest to avoid overwork.

4. Do not allow children or adults having no knowledge of the tractor or tractor operation, to operate the tractor.

## Low Clearance Positions

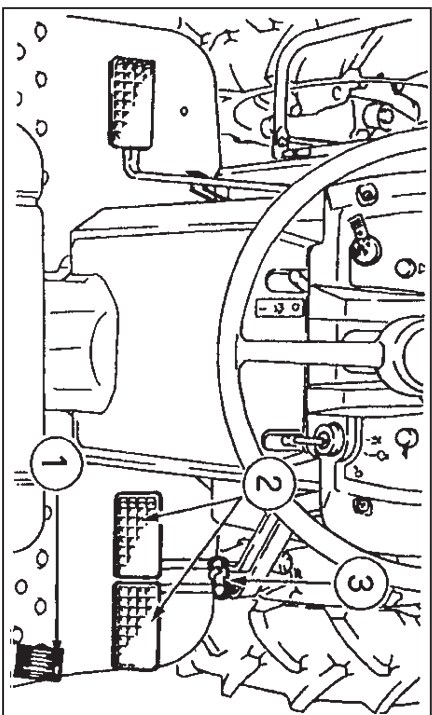
For low clearance operation, such as operating in buildings, orchards or vineyards, the ROPS can be lowered and secured in the down position. No rollover protection is provided in the lowered positions and the seat belt should not be fastened. When the low clearance operation is completed, return the ROPS to the secured upright position for all other tractor uses and transport.



**IMPORTANT:** When the ROPS frame is in the lowered position, make sure there is clearance between the frame and hitch mounted equipment. Slowly raise the hitch to maximum height to check for necessary clearance. For drawbar attached and/or PTO driven equipment, check for clearance including turning corners.



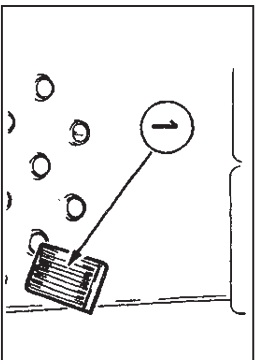
## Control Levers and Pedals (Gear Drive)



### 1. ACCELERATOR PEDAL

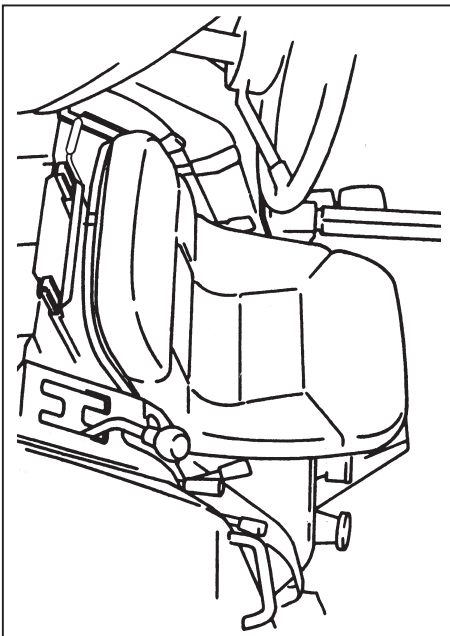
- Use this pedal when operating the tractor on the road.  
Push the pedal down to increase engine speed.

**NOTE:** The engine speed control lever must be set to give the slowest engine speed when the throttle pedal is used.



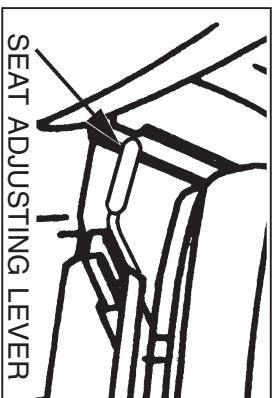
## OPERATORS SEAT

The seat can be adjusted in 5 fore/aft positions by the lever located under the RH side of the seat.

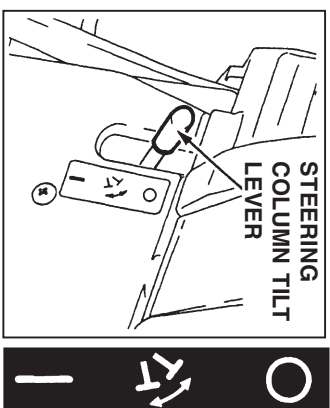


The seat is adjustable fore and aft by moving a lever.

1. Move the lever upward.
2. Move the seat rearward or forward to the required position then release the lever.
3. Push the seat rearward to make sure that the lock is engaged.



## STEERING COLUMN TILT



- The steering wheel angle can be adjusted in three positions by the lever located under the steering column. To adjust the position of the steering wheel, use following procedure.
1. Move the lever fully downward to disengage the latch from the column.
  2. Move the steering wheel rearward or forward to the required position, then return the lever upward to lock the steering column.
  3. Make sure that the lock is engaged.

## TOWING

When towing a tractor, follow these rules:

1. Never pull the tractor faster than a ground speed of 16 Km/h (10 MPH).
2. Make sure all controls are in the neutral or OFF position.
3. Because of a possible loss of steering and brakes when the tractor engine is not running, use only a rigid towing bar and safety chains to pull the tractor.

***Make sure that the weight of a trailed vehicle that is not equipped with brakes, NEVER EXCEEDS the weight of the machine that is towing the vehicle. Stopping distance increases with increasing speed as the weight of the towed load increases, especially on hills and slopes.***

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## HOW TO TRANSPORT TRACTOR

When you transport the tractor by truck or rail, follow these rules:

1. Hold the tractor with the downs and block the wheels.
2. Hydrostatic Drive: Move the Speed Lock lever to OFF position and put the range shift lever in the L position.
3. Lock the brake pedals together, push the brake pedals down and move the park brake lever up to engage the park brake.

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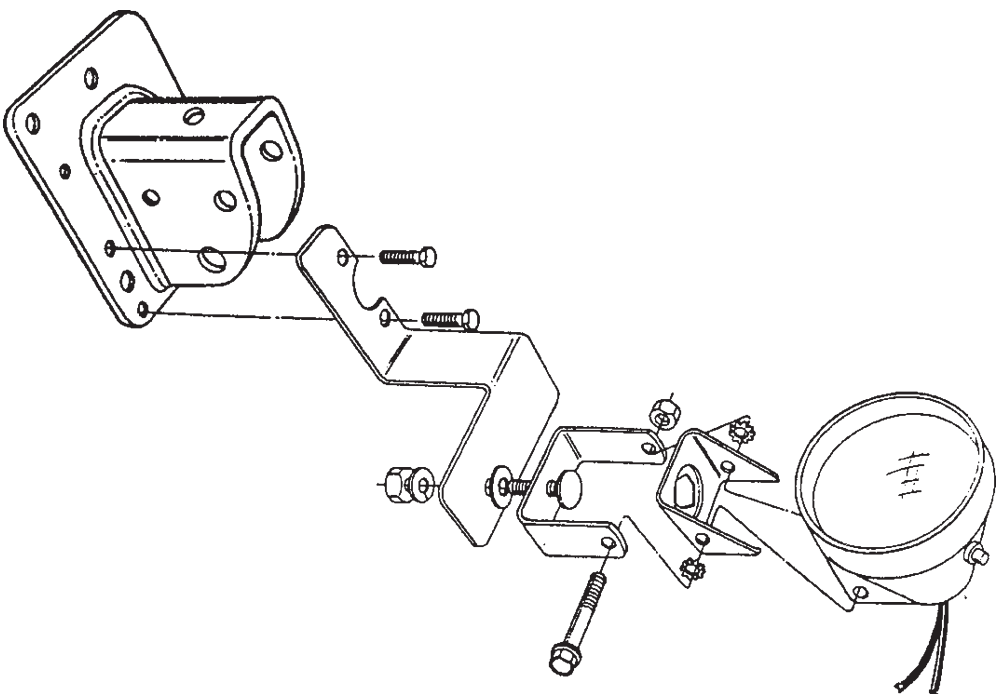
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## REAR WORK LAMP (IF EQUIPPED)

The rear work lamp is turned on by the switch on the lamp. The starter key switch must be in the ON position before the work lamp can be turned on.

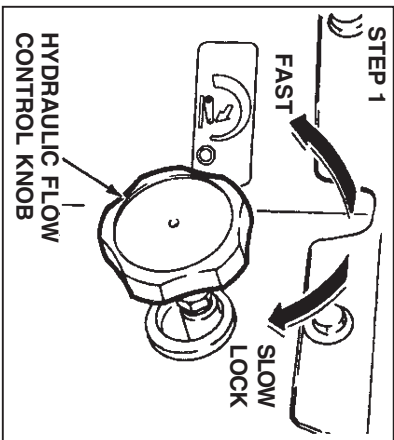
**IMPORTANT:** *Do not turn on the rear work lamp while travelling on public roads.*



## Hitch Lowering Speed Adjustment

To adjust the hitch lowering speed, use the following procedure:

1. Move the hitch control lever forward to lower the implements.
2. Turn the hydraulic flow control knob to adjust the lowering speed. Turn the knob counter clockwise to increase the lowering speed. Turn the knob clockwise to decrease the speed or lock the hitch.
3. After adjusting the speed, raise the hitch and then lower it to check the speed.

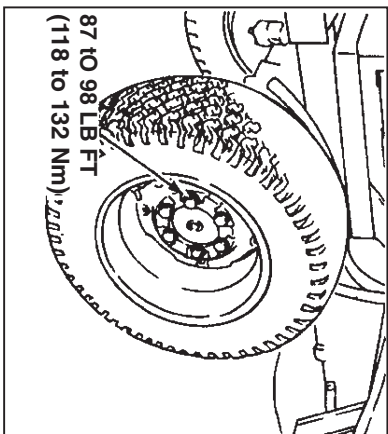


**NOTE:** When transporting the tractor on the road with the implement mounted on the three point hitch, always set the flow control knob to the LOCK position.

**IMPORTANT:** Never park a tractor with an implement in the raised position. Moving the control lever forward will lower the implement even though the engine is not running. If it is necessary to service the implement in the raised position, use jack stands to safely block the implement in place. Put the hydraulic flow control knob in the LOCK position.

**! Lower or block elevated implements and other attachments before servicing or when leaving the equipment. M132A**

## FRONT WHEEL ADJUSTMENT



The front wheels are tightened with six bolts for MFD to the axle hubs.

Torques for wheel bolts and the rod end nuts as follows:

BOLTS AND NUTS POSITIONS	TORQUE
Front wheel disc to axle hub bolts	118 to 132 Nm (87 to 98 LB FT)
The rod end nuts	59 to 88 Nm (43 to 65 LB FT)

Check the bolts to keep them tight at the intervals recommended in the Service Chart in this manual.

**NOTE:** *The front wheel of tires must always be assembled with the valve side out.*

## SYSTEM CAPACITIES

SYSTEM	U.S. MEASURE	METRIC MEASURE	IMPERIAL MEASURE
Engine Oil no filter change with filter change	3.9 QTS 4.4 QTS	3.7 Litres 4.2 Litres	3.2 QTS 3.7 QTS
Fuel tank	7.9 Gallons	30 Litres	6.6 Gallons
Coolant engine and radiator coolant bottle	7.1 QTS 0.4 QTS	6.7 Litres 0.4 Litres	5.9 QTS 0.4 QTS
Transmission Oil gear drive	25.4 QTS	24 Litres	21.1 QTS
Front Axle MFD	4.2 QTS	4.0 Litres	3.5 QTS

## FUEL SYSTEM

### Service Specifications

Fuel Filter Cup Service Interval .....	Every 10 Hours
Fuel Filter Element Change .....	Replace when loss of power or misfiring occurs

This type filter cannot be cleaned. Change the filter when the engine is misfiring or a loss of power is evident. It is necessary to remove the air from the system after each replacement.

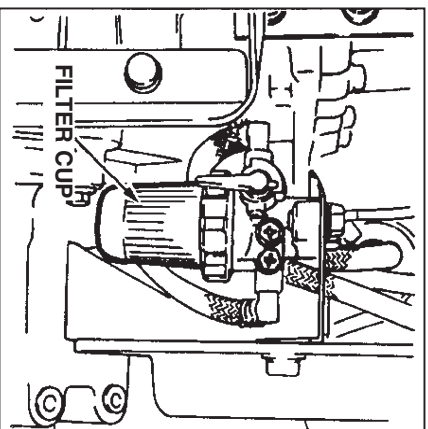
Only a filter recommended by your dealer should be used, to be sure that it is both effective and capable of withstanding the required suction or pressure without damage to the filter element.  
Fill the fuel tank at the end of each day to reduce condensation.

**NOTE:** Do not fill the fuel tank to its full capacity. Space is required for vapor expansion in the event of a temperature change. A tank filled to capacity may overflow if exposed to a rise in temperature or direct sunlight.

### Water Removal from the Filter Cup

Before starting each day's work, check for water or sediment in the filter cup. If water or sediment is in the cup, close the fuel shut-off valve remove filter cup, clean and reinstall.

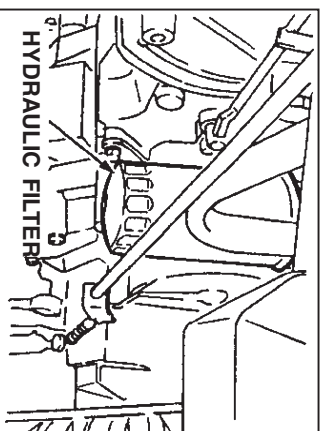
**NOTE:** Be careful not to allow dirt, water and other foreign materials to get into the filter when cleaning the cup.



## Hydraulic Filter (Hydrostatic Drive)

Change Interval ..... Every 200 hours (See NOTE)

**NOTE:** Replace the hydraulic filter after the first 50 hours of operation and every 200 hours of operation thereafter. Your Dealer has approved genuine filters. Do not use other type filters.



### CHANGE THE HYDRAULIC FILTER AS FOLLOWS:

1. Put the tractor on level ground, move the range shift lever to the L position and apply the park brake.
2. Put an oil canister under the hydraulic filter.
3. Turn the filter counterclockwise to remove. Use a filter wrench if necessary.
4. Apply clean oil to the O-ring on the new filter.
5. Install the filter. Turn the filter until the O-ring comes in contact with the case surface. Tighten the filter an additional 2/3 turn by hand.

**IMPORTANT:** *DO NOT use a filter wrench to install the hydraulic filter. When the filter is too tight, you can cause damage to the O-ring and filter.*

6. Wipe around the hydraulic filter with a dry cloth.
7. Change the transmission oil. See Transmission Oil Change in this manual.

## SPECIFICATIONS

### Electrical System

Type of System .....	12 Volt, Negative Ground
Battery .....	<b>EXIED 58-60 12V-540CCA</b> 9- <sup>13</sup> / <sub>16</sub> L.; 7- <sup>13</sup> / <sub>16</sub> W.; 7H <b>SAE TAPER</b>
Alternator .....	12Volt, 50 Ampere Output
Voltage Regulator.....	IC Built in Alternator
Starter Motor .....	12 Volt, 1.6 kW with Solenoid Switch
Head Lamp .....	35 watt
Flasher Lamp .....	32 watt
Rear Red Lamp.....	8 watt
Rear Working Lamp (If Equipped) .....	23 watt
Panel Lamp .....	3.4 watt
Turn Indicator Lamp.....	2.0 watt
Indicator Lamp.....	2.0 watt

### Fuses

Glove indicator lamp.....	10 Amp
Charge indicator lamp, Engine oil pressure indicator lamp .....	10 Amp
Engine Coolant Temperature Gauge, Fuel Gauge, Fuel Pump	
Head lamps, Rear Red Lamp, High Beam indicator lamp .....	15 Amp
Instrument Panel Lamps	
Turn signal lamps .....	15 Amp
Other optional electrical equipments .....	15 Amp

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