**This section covers the proper starting and transmission operation of the tractor.**

# BEFORE STARTING THE ENGINE

Before starting your tractor for the first time, make the following checks. Also see Maintenance/Adjustments sections in this manual.

1. Make sure the tractor is properly lubricated and greased as described in the Lubrication/ Maintenance section of this manual.

2. Check the engine oil level, engine coolant level, and transmission oil. See the Lubrication/ Maintenance section of this manual.

3. Check that the tractor fuel tank is filled with clean fuel that meets the specifications given in this manual.

4. Check the fuel system, cooling system and engine for leaks.

5. Remove any water or sediment from the water trap of the fuel tank and primary filter.

6. Check the air pressure in the tires and check the wheel bolt torque.

7. Make sure the power takeoff guard is in the proper position.

**NOTE:** *Clean around the fuel tank cap before you remove the cap.*

**WARNING:** *Before starting the engine, be sure all operating controls are in neutral or park position. This will eliminate accidental movement of the machine or start up of power driven equipment.* SM306A

**WARNING:** *Never operate the engine in a closed building. Proper ventilation is required under all circumstances.* M142A

**WARNING:** *ALWAYS sound horn before starting the machine. Make sure working area is clear of other persons, pets, tools, etc. before you start operating this machine. NEVER allow anybody in work area during machine operation.* M804

## Daily Inspection

Walk around and visually inspect the tractor daily. Check for such items as hoses or wires rubbing against other components, oil leaks, trash buildup, loose bolts or anything that would affect the normal operation of the tractor.

Make any necessary corrections before operating the tractor.

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**This section offers an overview of in-cab controls. See the appropriate section in this manual for detailed operating instructions.**

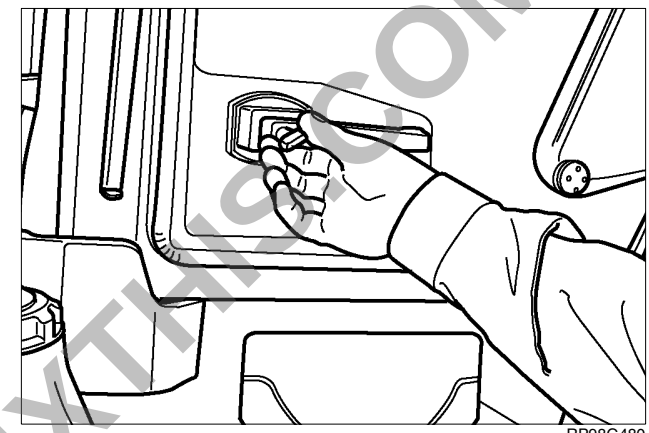
# TRACTOR ACCESS

## Cab Door Lock

Use the key for the key switch to lock or unlock the cab door from the outside

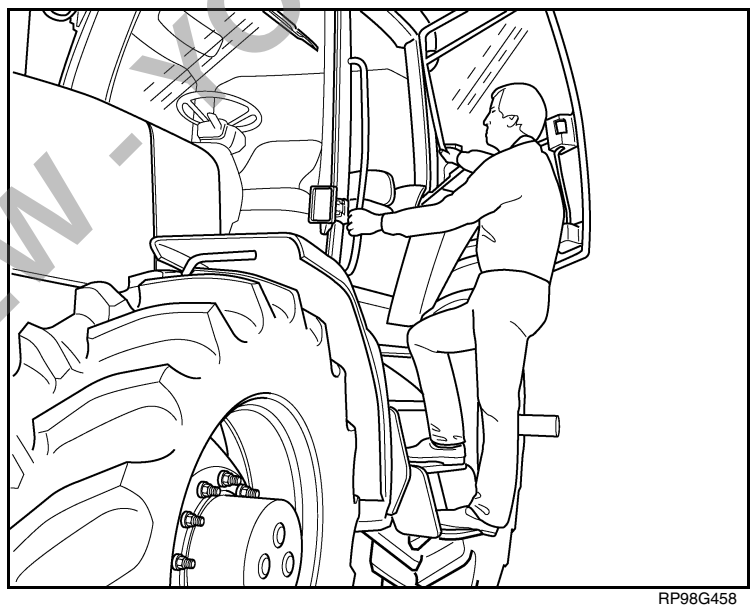
When mounting or dismounting the tractor, use the hand rails and steps provided.

**NOTE:** *Refer to Cab Steps in this manual for repositioning of steps.*



RP98G480

**WARNING:** *Jumping on or off the machine can cause an injury. Always face the machine, use the hand rails and steps, and get on or off slowly. Maintain a three point contact to avoid falling, (both hands on rails and one foot on the step, or one hand on the hand rail and both feet on the steps).* SM516



RP98G458

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**This section covers lubrication, system capacities, filters, fluids and maintenance required on the tractor.**

## ENVIRONMENT

- Before you service this machine and before you dispose of the old fluids, lubricants and filters always remember the environment.
- DO NOT pour oil or fluids in the ground, down drains or into containers that can leak.
- Dispose of all old fluids, lubricants and filters in accordance with local regulations.
- Check with your local environmental recycling center or your dealer for correct information

## PLASTIC AND RESIN PARTS

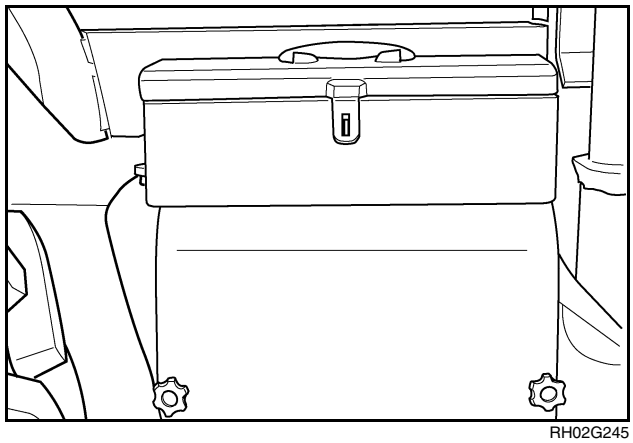
- Avoid using gasoline, paraffin, paint thinner, etc., when cleaning plastic, e.g.; console, instrument cluster, monitors and gauges etc.
- Use ONLY water, mild soap and a soft cloth when you clean these parts.
- Using gasoline, paraffin, paint thinner etc., will cause declaration, cracking or deformation of the part being cleaned.

## TOOL BOX (If Equipped)

The tool box (if equipped) is located on the right side of the cab above the fuel tank.

To remove the tool box, do the following:

1. Open the lid and remove the inner tray.
2. Remove the retaining pin, located in the center at back of the tool box.
3. Lift the tool box from the bottom outwards and upwards.



RH02G245

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**This section covers engine and power train specifications, travel speeds, weights and dimensions on the tractor.**

# DIESEL ENGINE

## General (MX210 & MX230)

| | |
|---|---|
| Type | Six Cylinder, Four Stroke Cycle, Turbocharged, 2 Valve per Cylinder Head, Air to Air After Cooled |
| Firing Order | 1-5-3-6-2-4 |
| Bore | 114 mm |
| Stroke | 135 mm |
| Piston Displacement | 8.3 Litre |
| Compression Ratio | 18.0:1 |
| Cylinder Sleeves | Wet Type, Removable |
| High Engine Idle | 2240 ±45 RPM |
| Rated Engine Speed | 2000 RPM |
| Low Engine Idle | 900 ±50 RPM |

## General (MX255 & MX285)

| | |
|---|---|
| Type | Six Cylinder, Four Stroke Cycle, Turbocharged, 4 Valve per Cylinder Head Air to Air After cooled |
| Firing Order | 1-5-3-6-2-4 |
| Bore | 114 mm |
| Stroke | 135 mm |
| Piston Displacement | 8.3 Litre |
| Compression Ratio | 17.0:1 |
| Cylinder Sleeves | Wet Type, Removable |
| High Engine Idle | 2225 ±25 RPM |
| Rated Engine Speed | 2000 RPM |
| Low Engine Idle | 900 ±50 RPM |

## Lubrication System - All

| | |
|---|---|
| Oil Pressure | 43 to 54 PSI (296 to 372 kPa) with Engine Warm and Operating at Rated Speed |
| Type System | Constant Pressure and Spray with Piston Oil Cooling |

## Fuel System - All

| | |
|---|---|
| Fuel Injection Pump | |
| MX210 & MX230 Tractor | Robert Bosch, P3000 |
| MX255 & MX285 Tractor | CAPS |
| Fuel Injectors | Robert Bosch, 17 mm |

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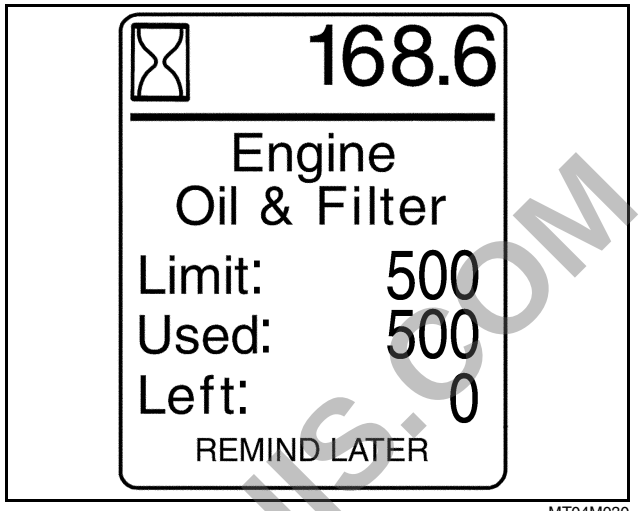


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## Service Reminder Screen

This screen is a service reminder indicating that the hours since the last service exceed the limit.

**ACKNOWLEDGE:** Press the “A”, “B” or RESET key to acknowledge the reminder. This screen will re-display in four hours if service is not performed and the service function screen is not reset.



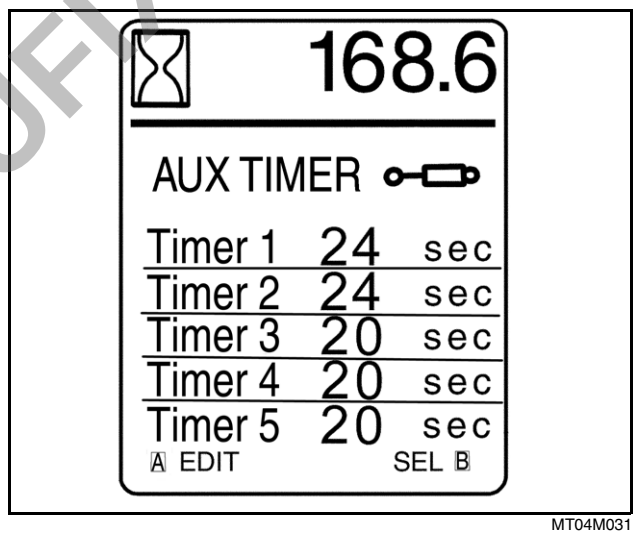

MT04M030

## Individual Remote Valve Timer Information (If Equipped)

This function allows the operator to view and control the length of time (0 to 30 seconds or continuous "C") each individual remote valve (1 thru 5) has hydraulic flow after the control lever is moved to the detent position.

Press the INCR or DECR button until the Remote Timers screen is displayed, or press the AUX TIMER key to access this screen directly. This screen shows the current time setting for each remote valve.

The Remote Timer screen can also be displayed by rotating the timer potentiometer.The Remote Timer screen will then be displayed until another screen is selected.




MT04M031

**NOTE:** *On tractors equipped with a deluxe instrument monitor, the timer potentiometer does not control the remote valve times but only serves as a method to display the remote timer screen on the monitor.*

When any of the remote valve function control switches is moved to or from the hydraulic motor position the Remote Timer screen will be displayed for 2 seconds to notify the operator that the corresponding timer setting has changed. After 2 seconds, the display will change to the previously displayed screen.

When a remote valve function control switch is moved to the hydraulic motor position the timer value for that remote valve is changed from its current value to "C" (continuous operation). When a remote valve function control switch is moved from the hydraulic motor position the timer value for that remote valve is changed from "C" (continuous operation) to its previous value.

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## Troubleshooting the Automatic Temperature Control System

The Automatic Temperature Control System displays fault codes, alternately with the temperature setting, if a malfunction occurs in the system. The fault codes and required action are as follows:

**Code "01"** - Displayed alternating with temperature setting - High pressure lockout, press the Automatic Temperature Control Switch to the center OFF position, then to the rear automatic position or forward defrost position as required. If code "01" reappears, system requires service.

**Code "02"** - Displayed alternating with temperature setting - Low pressure lockout, press the Automatic Temperature Control Switch to the center OFF position, then to the rear automatic position or forward defrost position as required. If code "02" reappears, system requires service or the outside temperature may be too cold for air conditioning operation - less than 4° C (40° F).

**Code "04**" - Alternating with temperature setting - possible faulty blower control potentiometer, blower defaults to maximum speed. System requires service.

**Code "05"** - Alternating with temperature setting - possible faulty temperature control potentiometer, system defaults to 20° C (68° F). System requires service.

**Code "08**" - Alternating with temperature setting - possible faulty cab temperature sensor or cab temperature is below -19°C (-2°F). Adjust temperature control above 23°C (74° F). If error code does not clear after cab temperature rises above -19°C (-2°F), system requires service. In order to continue operation, temperature control must be set above 21°C (70°F) for heating or below 19°C (66°F) for cooling.

**Code "10**" - Alternating with temperature setting - possible faulty evaporator sensor or cab temperature is below -19°C (-2°F). Compressor does not run. If error code does not clear after cab temperature rises above -19°C (-2°F), system requires service.

**Code "11"** - Alternating with temperature setting - possible faulty evaporator sensor or evaporator core temperature has exceeded 82°C (180°F). Compressor does not run. If error code does not clear, system requires service.

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**This section gives important safety information for your tractor.**

# SAFETY

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operation of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has limits. Make sure you understand the speed, brakes, steering stability and load characteristics of this machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

We are continuing to work for your safety by making tractors with better protection and by providing these rules for safe operation.

**WARNING:** *THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.*

SM171B

## SAFETY RULES

- Before starting the engine, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start up of power driven equipment. R106E
- Operate controls only when seated in the operator's seat. R137A
- Securely fasten your seat belt. Your machine is equipped with a ROPS cab for your protection. The seat belt can help insure your safety if it is used and maintained. Never wear a seat belt loosely or with slack in the belt system. Never wear the belt in a twisted condition or pinched between the seat structural members. Inspect seat belt webbing, buckle and retractors to ensure they are not damaged. If damage is apparent, repair before operating the tractor. M437A
- A frequent cause of death or serious injury is persons falling off machinery and being run over. Keep cab door closed. Instructional seat is used only for instructing or service diagnosing only. DO NOT permit others to ride, especially children. Seat belt (if equipped) must be worn at all times. M488C
- Before leaving the tractor, stop the engine, put all controls in neutral or park lock position, remove the key from the key switch. R301B
- Stay off slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling". R123A
- Do not drive on roads, or at high speed anywhere, with the differential lock engaged. Difficult steering will occur and can result in an accident. In field operation, use the differential lock for traction improvement, but release for turning at row ends. R116A

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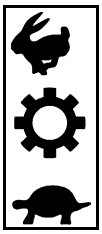
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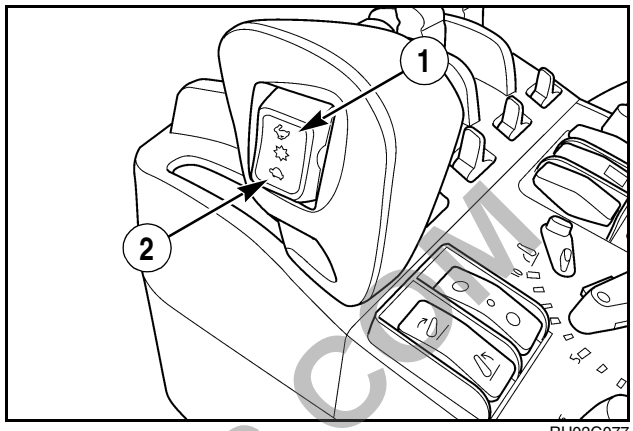


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## Gear Selection

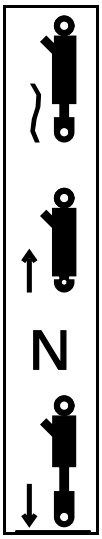


Push the top of the switch (1) to upshift the transmission. Push the bottom of the switch (2) to downshift the transmission. Use the GEAR SELECT button when selecting single gear shifting. See Shifting The Powershift Transmission for more details.



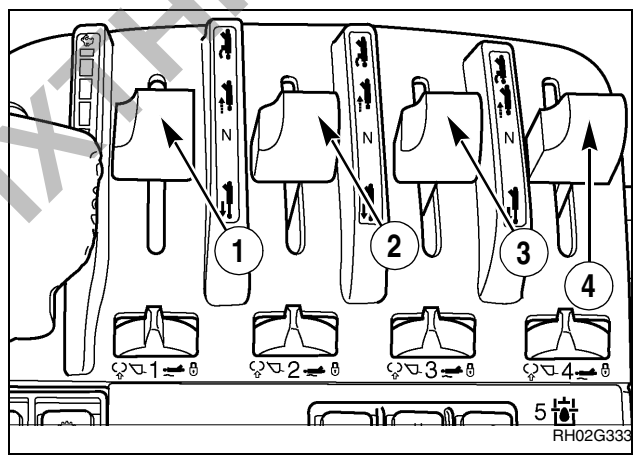
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## Electric Remote Control Levers (As Equipped)



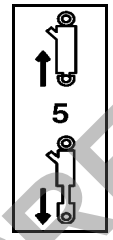

Tractors are equipped with electrically controlled remote valves to control the flow of hydraulic fluid to the first, second, third and if equipped, the fourth remote. See Remote Valve Function Control.

**NOTE:** *Electrically operated remote valves have timer controlled raise/lower detents. When the tractor is equipped with a Performance Monitor, each remote valve's (1-5) kickout time can be set and displayed. See Individual Remote Valve Timer Information for more information.*

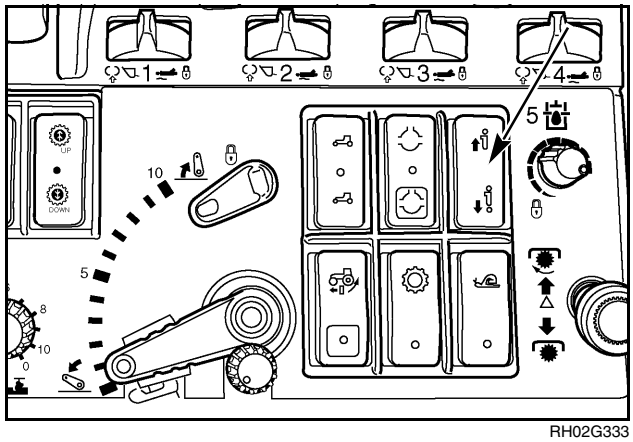


RH02G333

## 5th Remote Control (If Equipped)




This two-position (extend/retract) momentary rocker switch controls the flow of hydraulic fluid to the fifth remote coupler at the tractor rear.



RH02G333

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## True Ground Speed Sensor (Radar) Calibration

Ground speed calibration corrects the sensor signal by eliminating steady state slip error. The procedure is only valid:

1. if the tractor tire radius is correct (as programmed in the instrumentation controller).
2. if the procedure is performed under normal operating conditions. (The tractor is not in an unusual slip condition when performed.)

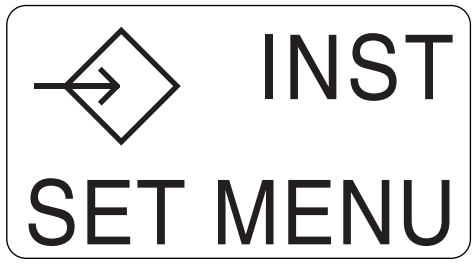
A default value is provided if sensor calibration is not performed.

Changing the tractor configuration requires recalibration. The calibration procedure should be performed whenever there is a change in tire size, tire pressure, ballast, instrumentation controller or true ground speed radar.

## Calibrating True Ground Speed (Radar)

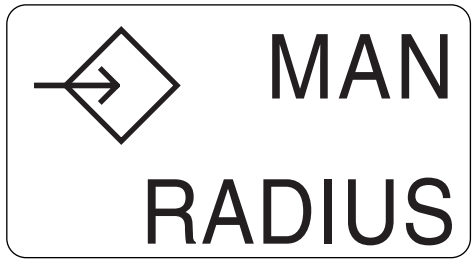
To calibrate the true ground speed sensor (radar):

1. With the transmission control lever in PARK, start the engine.
2. Enter PROGRAM MODE.
3. Press the INCR or DECR key until the INST OP SETUP menu displays.




RH02H239

4. Press the PROG key until the MAN(ual) tire radius screen displays.




RH02H242

5. Press the PROG key.

   If the controller detects that the sensor IS present, the radar calibration screen displays.

   If the controller detects that radar IS NOT present, the INST OP SETUP screen displays, and radar calibration is skipped.




RH02H245

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# Performance Monitor

## Standard Performance Monitor Display

The following is a listing of the functions of the Standard Performance Monitor. Pressing the INCR or DECR key will toggle between displays.

| STANDARD PERFORMANCE MONITOR DISPLAY | | |
|---|---|---|
| **Display** | **Information** | **Description** |
| ENGINE HOURS | Engine hours | Engine hours. Default display at start up. |
| | PTO RPM | 540 or 1000 PTO speed display when PTO is turned ON. Over rides all other displays. |
| | AUTO AUX (if equipped) | Displays AUX AUTO status when turned ON and PTO is OFF. |
| | OLD ENGINE HOURS | Displays engine hours entered for a previous monitor. (Press and hold RESET key for 2 seconds.) |
| BATTERY VOLTAGE | NN.N Volts | Tractor system voltage. |
| REAR HITCH POSITION | NNN% | Actual % position of rear hitch. |
| TRANS SYSTEM PRESSURE | *Pressure in PSI or kPa | Transmission oil pressure. |
| ENGINE OIL PRESSURE | *Pressure in PSI or kPa | Engine oil pressure. |
| ENGINE INTAKE TEMP | *Temperature in ° F OR ° C | Engine intake air temperature. |
| TRANS OIL TEMP | *Temperature in ° F OR ° C | Transmission oil temperature. |
| ENGINE COOL TEMP | *Temperature in ° F OR ° C | Engine coolant temperature. |

*When English is selected, PSI and Fahrenheit will be displayed. When Metric is selected, kPa and Celsius will be displayed.

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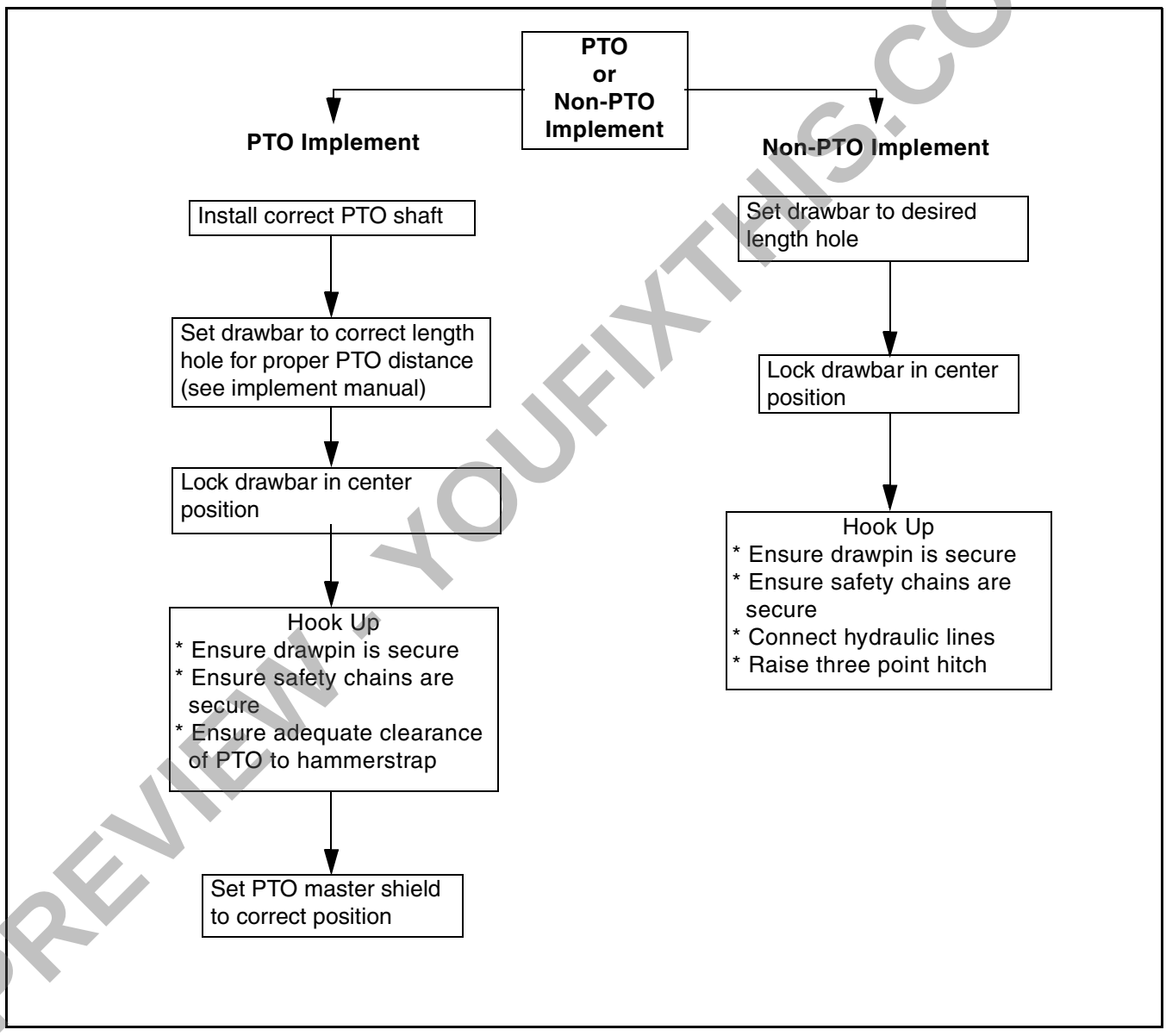
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**This section covers attaching and controlling implements.**

# GENERAL PROCEDURES FOR CONNECTING IMPLEMENTS

## Drawbar Attached Implement

**NOTE:** *Refer to Power Takeoff, Three Point Hitch, or Drawbar Sections on the following pages for details.*




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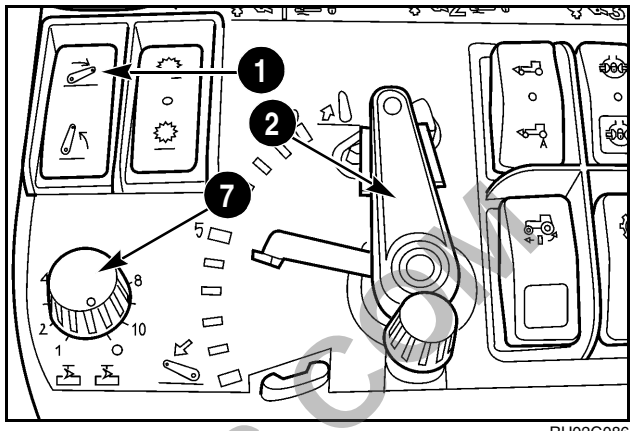
## Operating in Position Control

The tractor and implement must be operated in the field to set correct hitch position. After the implement is attached and all linkage adjustments made:

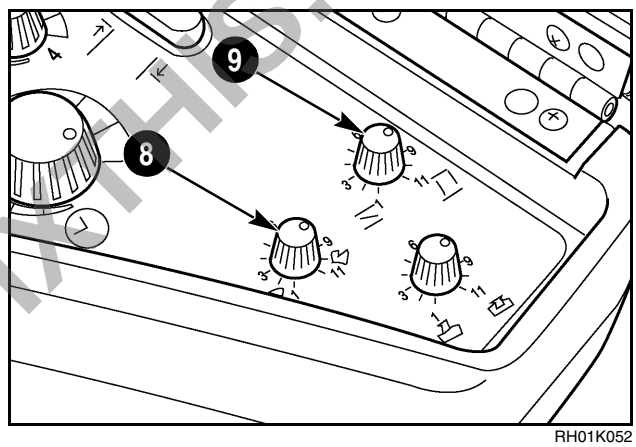
1. Set the Hitch Position control (2) to the Transport Lockout position, Load Control (7) to “O” (fully clockwise), Drop Speed control (8) to “6,” and the Upper Limit control (9) to “1.”

**NOTE:** *Turn Slip Limit Control OFF, if equipped.*

2. Move the Up/Down switch (1) to the DOWN position. If the “Hitch Capture” message is shown on the programmable display, move the Hitch Position control (2) until it matches actual hitch position.

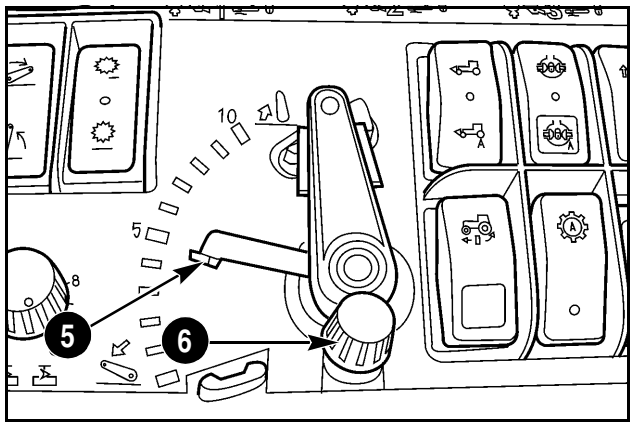


RH02G086



RH01K052

3. Operate the tractor and implement in the field. Set the implement working depth with the Hitch Position control (2). Hitch movement speed is determined by the speed at which the control is moved. If the control is moved slowly, precision control mode activates to slowly move the hitch, matching the control movement. If the control is moved quickly, the hitch lowers at the Drop Speed rate. Move the Depth Control stop (5) by loosening the knob (6). Move the stop to the desired hitch working depth and retighten the knob. The stop provides a physical reference point for returning the hitch to the same working depth each time the control is moved.



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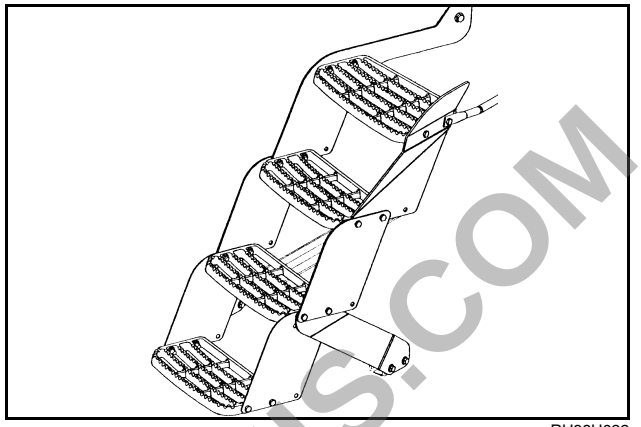
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# CAB STEPS

## Standard or Narrow Step Setup

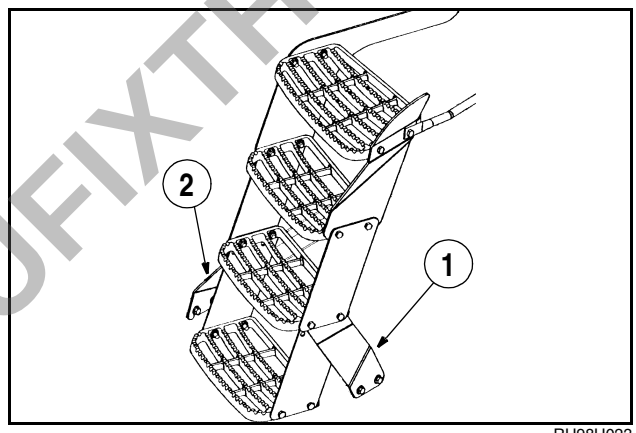
The cab steps can be adjusted to a narrow setting to provide additional crop clearance.

Adjust as shown using two additional brackets (1, 2), available from your Case IH dealer.



RH98H022

**Standard Spacing**




RH98H023

**Narrow Spacing**

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# Tread Positions - MFD Axle

The front wheel tread widths can be adjusted to eight different positions as needed for your operation.

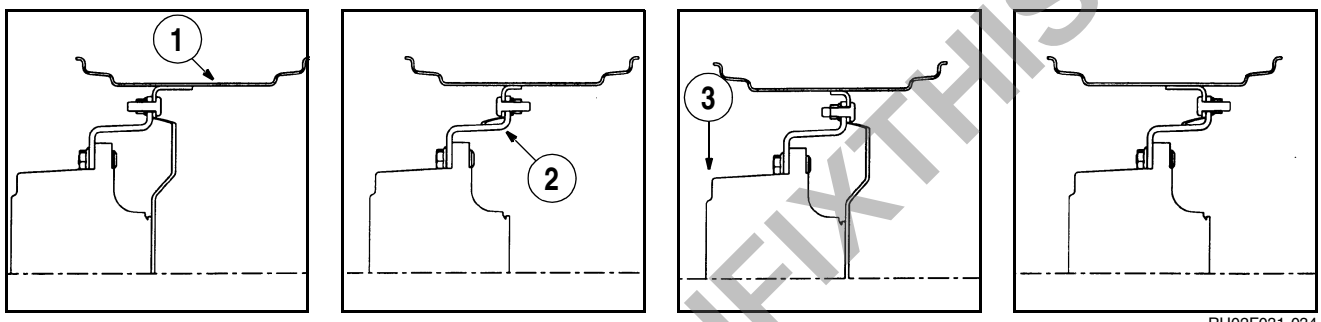
**IMPORTANT:** *The steering stops on the axle must be installed in the correct position for the tread width and tire size being used. See MFD Steering and Oscillation Stops, in this manual for the correct position of the steering stops for each tread width and tire size combination.*

The tread width can be adjusted by turning the wheel discs and/or the wheel rims in or out. Install the wheel discs and rims in the position shown below for the wheel tread needed.

**NOTE:** *When a disc is repositioned in the rim, lay the wheel assembly flat and center the disc in the rim before disc to rim hardware is tightened. This will help keep the wheel from running out of round with the axle.*

## Inset Positions

**CENTERLINE OF TRACTOR** →



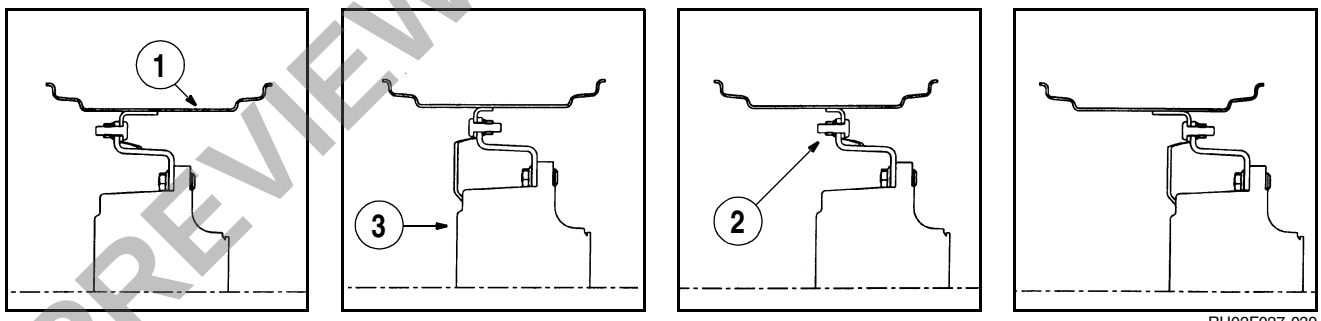

RH02F031-034

| 1524 mm (60 Inch) Tread Width Valve Stem Out | 1626 mm (64 Inch) Tread Width Valve Stem Out | 1727 mm (68 Inch) Tread Width Valve Stem In | 1829 mm (72 Inch) Tread Width Valve Stem In |
|---|---|---|---|

1. RIM 2. WHEEL DISC 3. AXLE HUB

## Outset Positions

**CENTERLINE OF TRACTOR** →




RH02F027-039

| 1930 mm (76 Inch) Tread Width Valve Stem Out | 2032 mm (80 Inch) Tread Width Valve Stem Out | 2134 mm (84 Inch) Tread Width Valve Stem In | 2235 mm (88 Inch) Tread Width Valve Stem In |
|---|---|---|---|

1. RIM 2. WHEEL DISC 3. AXLE HUB

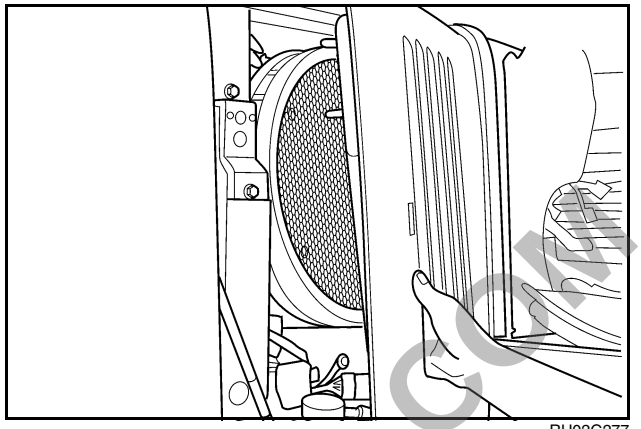
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## Service Door

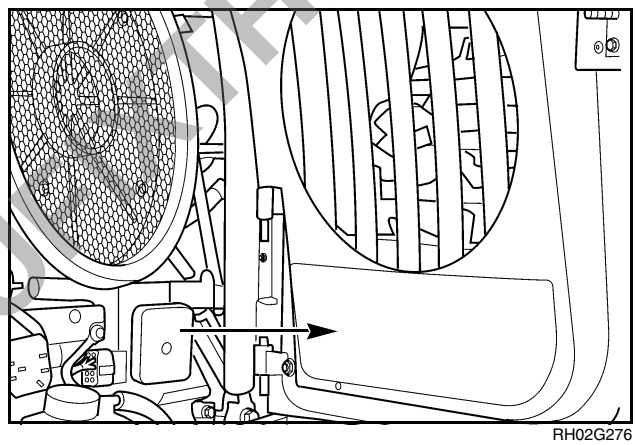
Pull to open service door.



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## Service Hour Intervals (If Equipped)

Service your tractor at the intervals and locations given in this manual. On the inside of the service door is a quick reference maintenance chart. When you service your tractor, use only high quality Case IH lubricants and filters.



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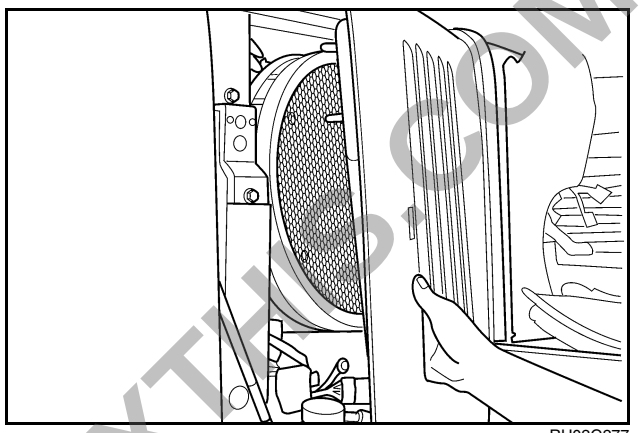
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## AS REQUIRED MAINTENANCE

# Cleaning the Engine Primary Air Filter

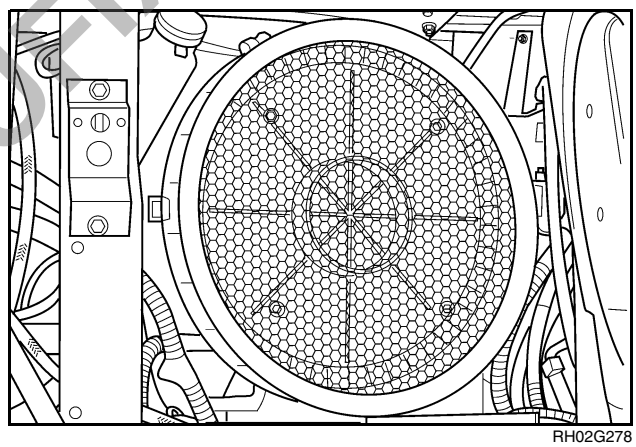
The primary filter can be cleaned or washed a maximum of 4 times between filter changes. The secondary filter cannot be cleaned or washed. Do not remove the secondary filter unless it is being replaced.

1. Open the service door.



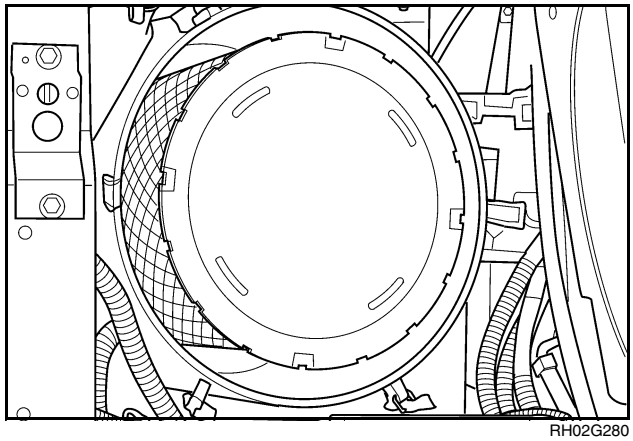
RH02G277

2. Unsnap fasteners and remove precleaner cover.
3. Clean the precleaner screen of any debris.
4. Blow dirt out of fins with compressed air. **Always wear face protection when using compressed air.**



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5. Remove primary filter element by pulling straight out.



RH02G280

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