**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.

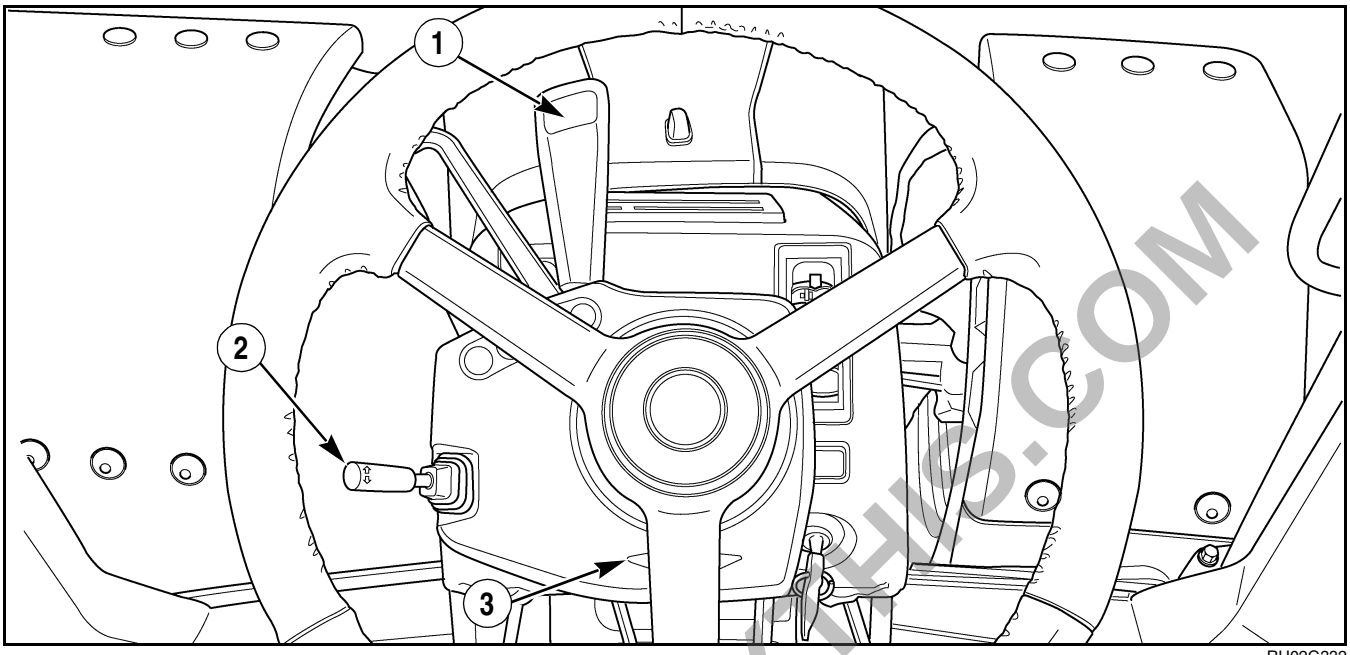
Make any necessary corrections before operating the tractor.

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# STEERING COLUMN CONTROLS



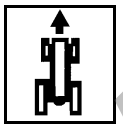

RH02G332

1. TRANSMISSION CONTROL LEVER
2. DIRECTION TURN SIGNAL LEVER
3. TURN SIGNAL INDICATORS

1. **TRANSMISSION CONTROL LEVER** - Lift the lever and move the lever from the upper PARK position to the left one indent to select FORWARD. One more indent to the left will select NEUTRAL, and all the way to the left will select REVERSE. See Powershift Transmission Control System for detailed information.



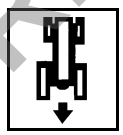

Park Position



Forward Position

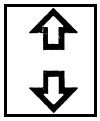



Neutral Position



Reverse Position

**NOTE:** *The control lever PARK position is NOT a mechanical function of the transmission. The PARK position activates the multiple disk park brake circuit. The control lever must be in PARK when starting the engine.*

2. 

**DIRECTION TURN SIGNAL SWITCH** - Move the turn signal lever UP to indicate a RIGHT turn. Move the turn signal lever DOWN to indicate a LEFT turn. The center position is OFF. When the Direction Turn Signal Switch (2) is used, the amber hazard lamps illuminate as follows:

When the direction turn signal (2) is pushed UP, the RH cab warning lamps, RH wide transport lamp and steering column RH indicator illuminate ON and OFF. The LH cab warning lamps, LH wide transport lamp and steering column LH indicator illuminate continuously.

When the direction turn signal (2) is pushed DOWN, the LH cab warning lamps, LH wide transport lamp and steering column LH indicator illuminate ON and OFF. The RH cab warning lamps, RH wide transport lamp and steering column RH indicator illuminate continuously.



**HORN BUTTON** - The horn button is part of the direction turn signal lever. Push IN on the end of the lever to operate the horn.

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# LUBRICATION/MAINTENANCE CHART

| Service Interval | Maintenance Requirement | Check | Grease | Change | Clean |
|---|---|---|---|---|---|
| **When Warning Message Displays** | Air Cleaner Element | | | | X |
| **Every 10 Hours Or Daily** | Engine Oil Level | X | | | |
| | Transmission Oil Level | X | | | |
| **Every 50 Hours** | Engine Primary Fuel Filter - Drain Water | | | | |
| | Water Separator | | | | X |
| | Engine Coolant Level | X | | | |
| **Every 300 Hours** | Battery Water Level | X | | | |
| | Engine Air Intake Hoses | X | | | |
| | Engine Coolant Level-Deaeration Tank | X | | | |
| | *Engine Oil And Filter | | | X | |
| | Front And Rear Wheel Bolt Torques | X | | | |
| | Front Axle And Rear Hitch (Note A) | | X | | |
| | Fuel Tank - Drain Water | | | | |
| | Differential And Planetary Oil Level (Note B) | X | | | |
| **Every 600 Hours** | Engine Coolant Antifreeze Protection | X | | | |
| | Engine Coolant Filter | | | X | |
| | Engine Coolant Hoses And Clamps | X | | | |
| | Engine Fuel Filters | | | X | |
| | Changeable PTO Internal Splines | | X | | |
| **Every 1200 Hours Or Annually** | Engine Primary And Secondary Air Filter | | | X | |
| | Engine Air Precleaner | | | | X |
| | Differential and Planetary Oil | | | X | |
| **Every 1200 Hours** | Engine Valve Adjustment (Note C) | X | | | |
| | Engine Coolant And Coolant Conditioner | | | X | |
| **Every 1500 Hours** | Transmission Oil, Filter(s) and Breather | | | X | |
| **Every 2400 Hours** | Engine Fuel Injection Nozzles and Pump See (Note C) | X | | | |
| **Every 4000 Hours** | Engine Crankshaft Dampener (Note C) | X | | | |
| **As Required** | Cab Air And Recirculation Filters | | | X | X |
| | Cab Air Filter Dust Valve | X | | | |
| | Engine Primary Air Filter | | | | X |
| | Grill Screens, Radiator, Condenser/Fuel Cooler, Oil Cooler, Air to Air Cooler | | | | X |
| | Fan Belt Replacement | | | X | |
| | Tire Pressure | X | | | |

* Engine oil change interval may be affected by the sulfur content of the fuel. See Engine Oil Change in this manual.

**Note A** - In severe or wet conditions, interval is every 10 hours or daily.

**Note B** - Perform initial service in first 50 hours of operation.

**Note C** - Dealer must perform this service.

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

# DIESEL ENGINE

## General - All

| | |
|---|---|
| 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 |

## 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 | Robert Bosch, P3000 |
| Fuel Injectors | Robert Bosch, 17 mm |

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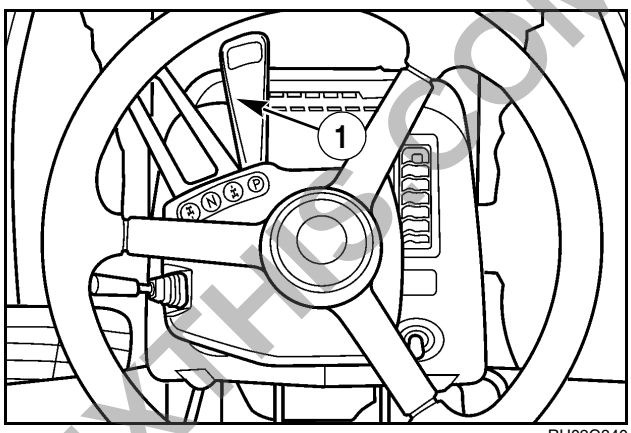
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# NORMAL ENGINE STARTING PROCEDURE

**WARNING:** *Only operate the machine when sitting on the seat.* ***Do not*** *try to bypass the* ***Operator Presence Safety Switch*** *by putting heavy objects on the seat. This can result in serious injury or death.* SM519

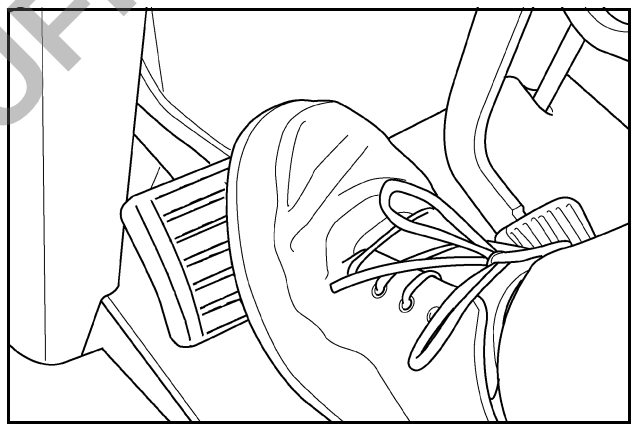
**NOTE:** *After the engine starts, operate the engine at low idle speed for a few minutes so enough lubricant reaches the turbo charger bearings and engine parts before operating the engine at rated speed.*

1. Make sure the transmission control lever (1) is in PARK position.



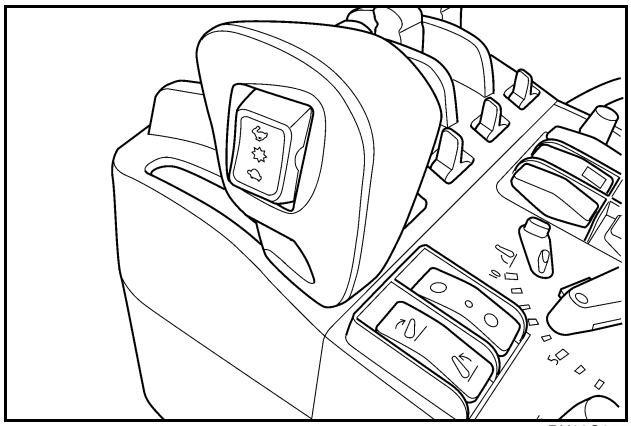
RH02G340

2. Fully depress the inching (clutch) pedal.


RH02J048

3. MXMXMove the throttle lever to the 1/3 open position.

**WARNING:** *Operate controls only when seated in the operators seat.* M137A

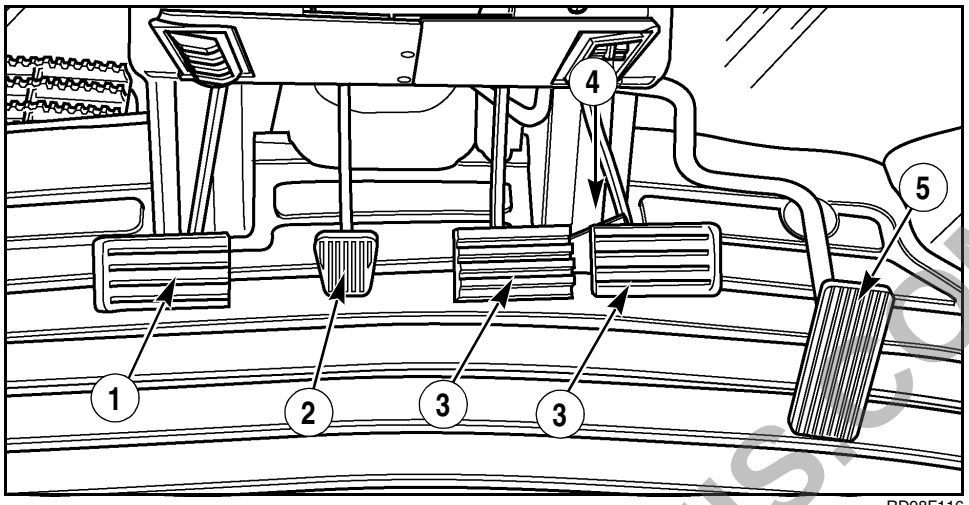

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# FOOT PEDALS




RD98F116

1. INCHING PEDAL
2. STEERING COLUMN TILT/TELESCOPIC PEDAL
3. BRAKE PEDALS
4. BRAKE PEDALS INTERLOCK
5. FOOT THROTTLE PEDAL (If Equipped)

1. **INCHING PEDAL -** When the inching pedal is pushed down, the transmission is disconnected. Use the inching pedal when moving the tractor in a small area or when connecting implements.

2. **STEERING COLUMN TILT/TELESCOPIC PEDAL -** The steering column tilts to 13 different positions. To tilt or telescope the steering wheel, push the tilt/telescopic pedal down and move the steering column to the desired position. Release the tilt/telescopic pedal to keep the column in the selected position. Move the column to the most forward position for ease of entry and exiting.

**NOTE:** *To tilt the column, partially depress the pedal. To telescope the column, fully depress the pedal.*

3. **BRAKE PEDALS -** The LH pedal stops the LH rear tractor wheel and the RH pedal stops the RH rear tractor wheel. Off the road the pedals can be used separately to assist turning. For safe operation on the road, always lock the pedals together with the pedal interlock (4).

**WARNING:** *Extra weight and bad traction conditions such as mud or ice increase your stopping distance. Remember that the liquid in the tires, weights on the machine or wheels, tanks filled with fertilizer, herbicides or insecticides - all these add weight and increase the distance you need in which to stop.* SM0113B

4. **BRAKE PEDALS INTERLOCK -** The brake pedals interlock is used to lock both brake pedals together so both pedals are actuated at the same time.

**WARNING:** *Brake pedals must be locked together for road travel. This will insure uniform brake application and maximum stopping ability.* M112A

**BRAKE SYSTEM OPERATION** - With the engine running under normal conditions, minimal force and pedal travel are needed to engage the brakes. If the engine stalls, increased force and pedal travel are required for manual hydraulic braking. If a hydraulic failure occurs, push BOTH pedals to the floor to activate the Park Brake.

5. **FOOT THROTTLE PEDAL (If Equipped) -** Press the foot throttle pedal to increase engine speed, overriding the hand throttle setting. Release the foot throttle pedal to decrease the engine speed to that set by the hand throttle.

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## 300 HOUR MAINTENANCE

### Engine Oil and Filter Change

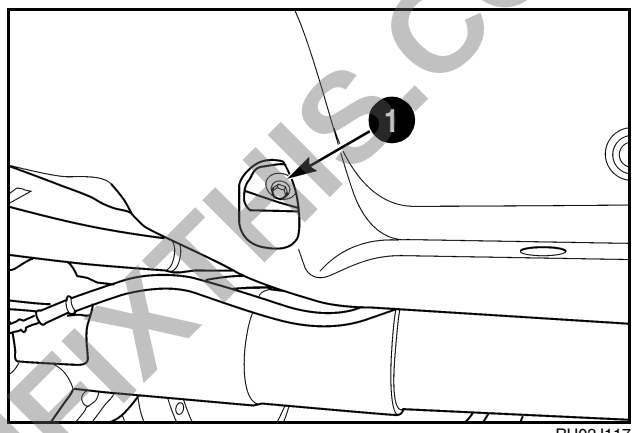
To change the engine oil and filter, put the tractor on level ground and stop the engine, and follow this procedure:

**NOTE:** *For best results change the oil while the engine is still warm from operation. Use caution when removing plug and draining oil.*

**NOTE:** *Your Case IH dealer has approved filters. Do not use other type filters.*

1. Remove the oil pan drain plug (1) located on the left side of the frame just behind the front axle, and drain the oil from the engine.

2. Install the drain plug (1) in the oil pan.



RH02J117

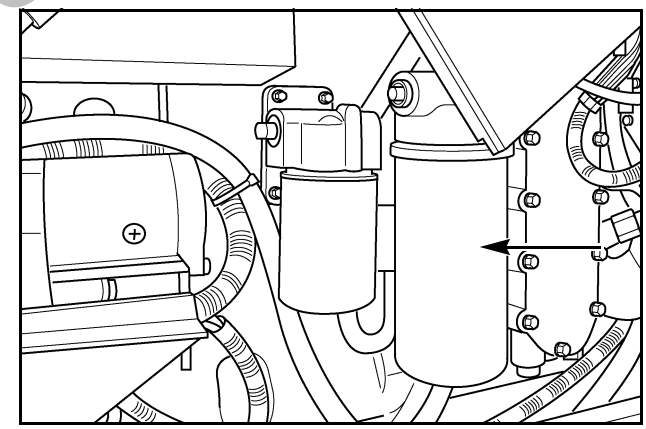
3. Turn the oil filter counterclockwise to remove. Use a strap wrench, if necessary.

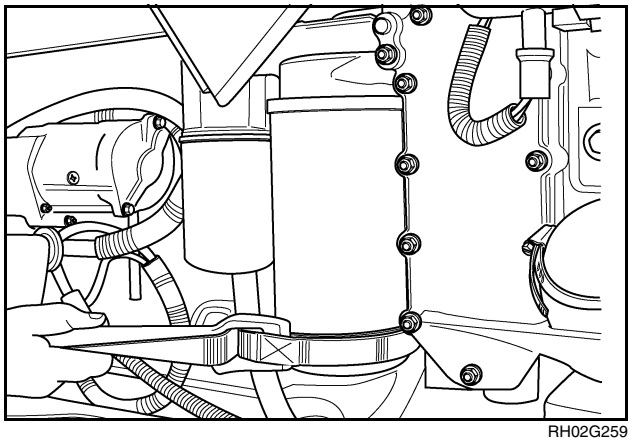
4. Apply clean oil to the gasket on the new filter.

5. Install the filter. Turn the filter clockwise until the gasket comes in contact with the filter head. Tighten the filter an additional one-half turn by hand.

6. Loosen the filter approximately one turn. Turn the filter clockwise again until the gasket comes in contact with the filter head. Tighten the filter an additional 1/2 to 3/4 of a turn by hand.

**NOTE:** *DO NOT use a filter wrench to install the oil filter. If the filter is too tight you can damage the gasket and filter.*


RH02G256


RH02G259

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## Air Intake System

Type ..... Dry Type Air Induction System, Two Stage

## Cooling System

Type ..... Pressure System, Thermostat Controlled Bypass, Impeller Type Pump
Radiator ..... Aluminum Furnace Brazed
Thermostats ..... Starts to Open at Approximately 180°F (83°C) Fully Open at 203°F (95°C)
Pressure Cap, Deaeration Tank..... 15 PSI (103 kPa)
Fan Drive Type ..... Viscous

# POWER TRAIN

## Transmission

Type ..... 18 Speed Full Power Shift with Hydraulically Actuated Clutches
Speed Selection ..... 18 Forward and 4 Reverse
Creeper Speed Selection (If Equipped) ..... 6 Forward and 2 Reverse
Shift Control ..... Switch Actuated
Oil Cooler ..... Transmission, Hydraulic, Steering and Brake Fluid

## Brakes

Type ..... Hydraulic, Power Assistance, Self-Adjusting, Multiple Wet Plate Type Differential Brakes

## Axle Differential and Planetaries Mechanical Front Drive (MFD)

4 Pin, 10 Bolt ..... Limited Slip Hypoid with Planetary Reduction in Hub, Electrically Controller, Engaged with Spring Pressure Clutch, Disengaged Hydraulically
Optional ..... Full Locking, Electronically Controlled Differential

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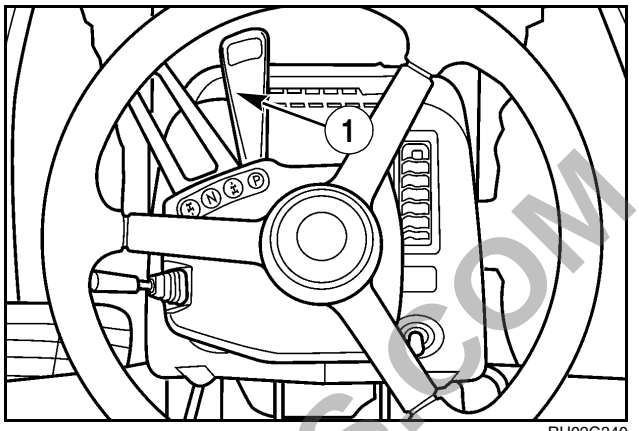
# STOPPING THE ENGINE

**IMPORTANT:** *Before stopping the engine after operating under heavy load, run the engine at low idle speed for a short period of time (3 to 5 minutes). This allows the engine and turbocharger temperature to decrease gradually. If the engine stops when operating under a load, START THE ENGINE IMMEDIATELY to prevent too much heat build up caused by stopping the flow of oil for cooling and lubrication.*

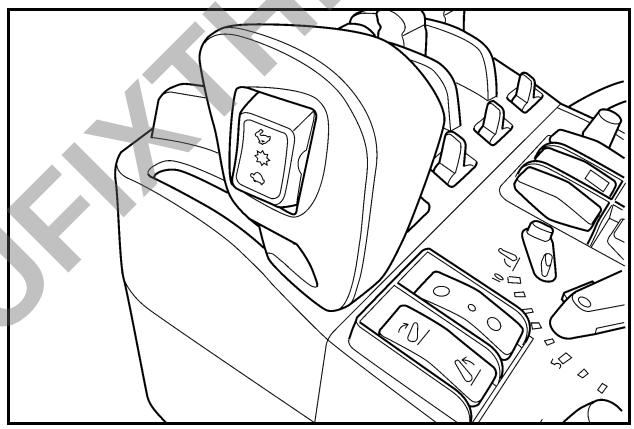
1. Slow the engine and bring the tractor to a complete stop by depressing the inching pedal and brake pedals (if necessary). Put the transmission control lever in the PARK position. Release the inching pedal and brakes.

2. Move the throttle lever to the idle position for 3 to 5 minutes to decrease the temperature of the engine and turbocharger.

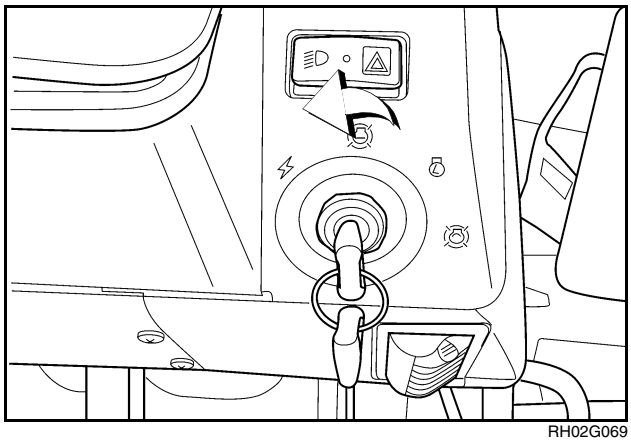
**NOTE:** *Lower the implement to the ground, if attached.*



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3. Turn the key switch to the OFF position to stop the engine. Remove the key from the switch.

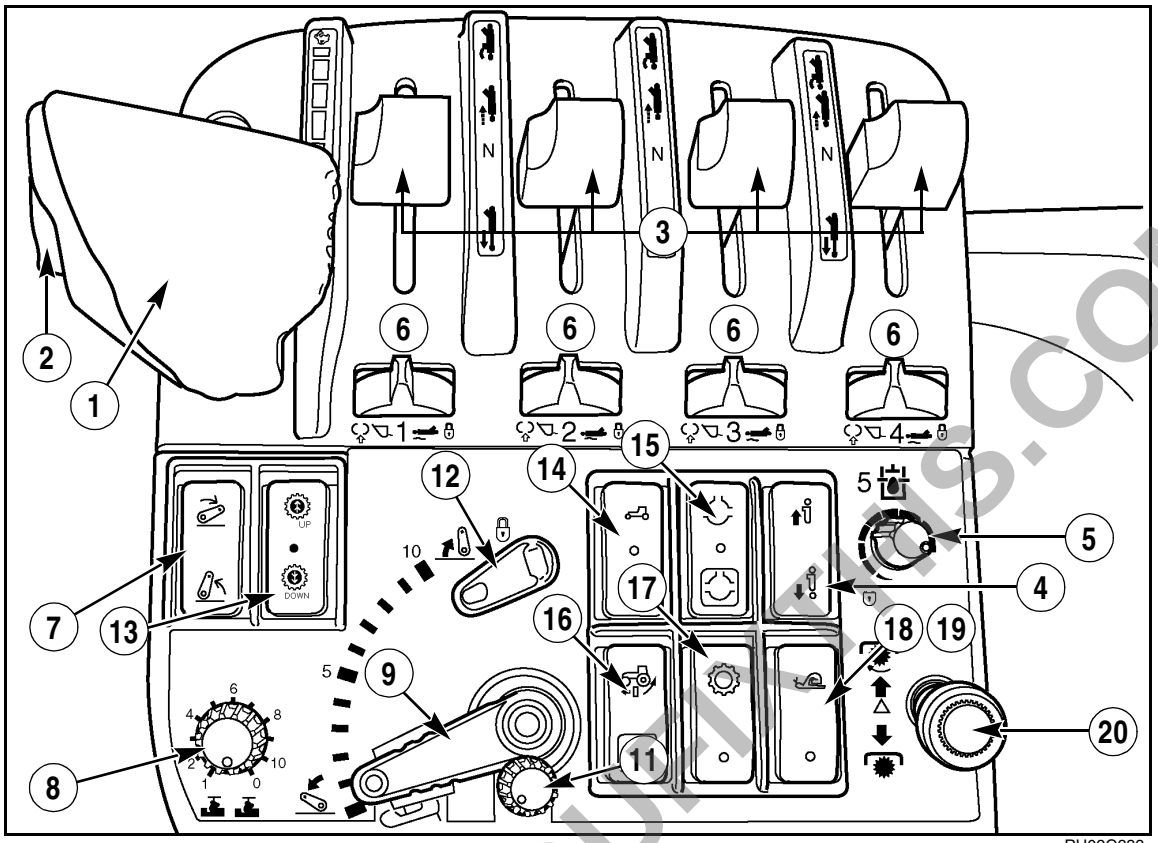

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# RIGHT HAND CONSOLE CONTROLS



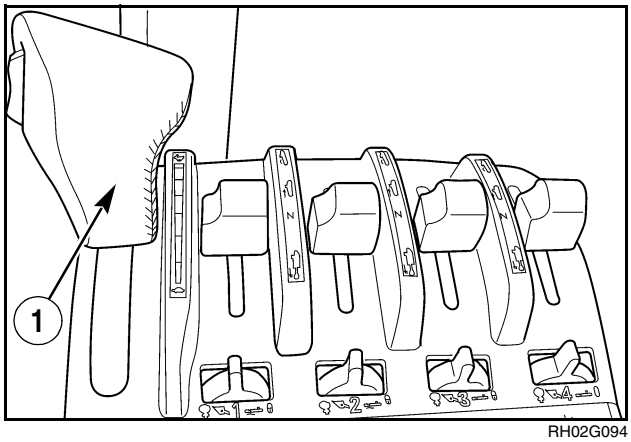

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1. HAND THROTTLE LEVER
2. GEAR SELECT BUTTON
3. REMOTE CONTROL LEVER (1-4)
4. FIFTH REMOTE CONTROL
5. FIFTH REMOTE FLOW CONTROL
6. REMOTE FUNCTION CONTROL (1-4)
7. HITCH UP/DOWN CONTROL
8. HITCH LOAD CONTROL
9. HITCH POSITION CONTROL
10. HITCH LOWER LIMIT STOP (Not Shown)
11. LIMIT STOP KNOB
12. HITCH TRANSPORT LOCKOUT
13. PROGRAMMABLE SHIFT CONTROL
14. MFD CONTROL
15. DIFFERENTIAL LOCK CONTROL
16. SLIP LIMIT CONTROL
17. AUTO SHIFT CONTROL
18. CREEPER CONTROL
19. REMOTE AUTO MODE CONTROL
20. PTO CONTROL

## Hand Throttle Lever



The hand throttle lever (1) is used to control engine speed. To increase engine speed, move the lever forward. To decrease engine speed, move the lever rearward.




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## 600 HOUR MAINTENANCE

# Engine Fuel System

**NOTE:** *Service the fuel filter at the recommended intervals or when loss of horsepower occurs.*

The fuel system consists of a fuel tank, fuel filters and fuel injection parts. To prevent dirt or water from damaging the injection parts and decrease performance, use clean fuel, keep the fuel tank full, drain the fuel tank water trap and primary filter at regular intervals and service the filters.

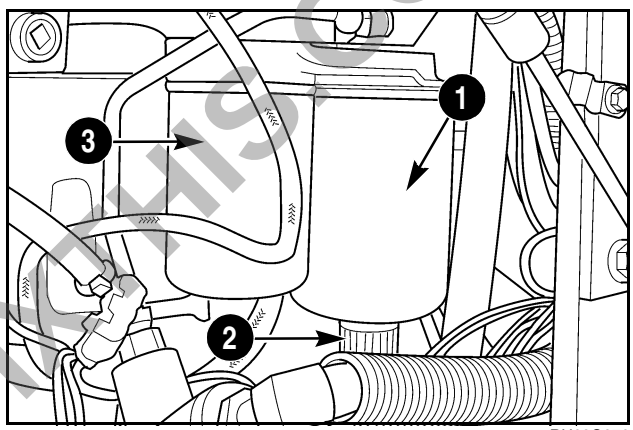
## Fuel Filter Replacement

1. Clean the filter head, filter(s) and engine area next to the filter(s).

2. Open the drain plug (2) on the primary filter and drain all fuel.

3. Use a clamp wrench and turn each filter counterclockwise to remove.
4. Install new gaskets on the primary and on secondary (3) – mounting studs.

5. Apply clean oil or grease to the gasket(s) on the new filter(s).



RH02G270

**NOTE:** *Do not fill the new filter(s) with fuel before installation.*

6. Turn filter(s) clockwise until filter gasket comes in contact with filter head. Use your hand to tighten 1/2-turn. For a proper seal, loosen filter(s) and again tighten 1/2 to 3/4 turn after gasket comes in contact with filter head. When the filter(s) are too tight, you can damage the gaskets and filters.

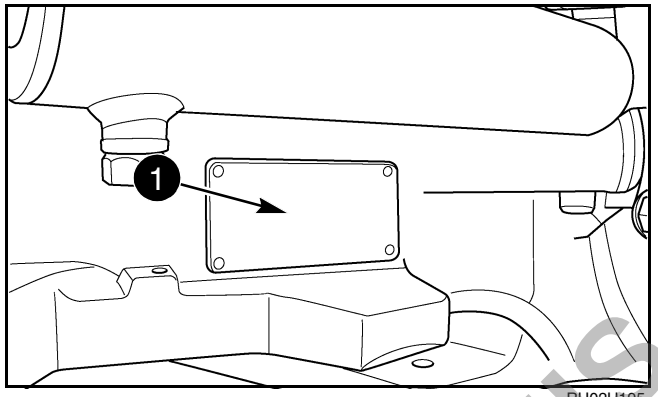
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## Interaxle Ratio - Front/Rear

*Front Axle Reduction Ratio .....1.3228 *21.525

**NOTE:** **This ratio number (1) can be found on the axle serial number plate.*




## Park Brake System

Park Brake ..... Spring Applied Multiple Disc Actuated by Transmission Control Lever

## Hydrostatic Power Steering

Type ..... Priority on Demand from Axial Piston Pump

Steering Pump ..... Hydrostatic Type

Steering Cylinder ..... Double Action Cylinder

## Remote Hydraulic System

Pump ..... Axial Piston Pump, Pressure and Flow Compensated

Type Remote Valve ..... Closed Center, All Sections Load Check on “B” Port, (Raise) Variable Flow Control for Each Section

Remote System Flow at 2000 Engine RPM (Standard) ..... 30 GPM (114 l/min)

Remote System Flow at 2000 Engine RPM (Optional) ..... 44 GPM (166 l/min)

Maximum System Pressure ..... 2930 PSI (20 200 kPa)

Couplings ..... ISO and ASAE Compatible, Fast Removal Break Away Type

## Power Takeoff

PTO Type ..... Independent of Transmission

Type Clutch ..... Hydraulic Actuated

Rotation ..... Clockwise from Rear of Tractor

Output Shaft Size (If Equipped)

- 540 RPM ..... 6 Splines, 34.9 mm (1-3/8 inch) Diameter Shaft PTO
- 1000 RPM ..... 21 Splines, 34.9 mm (1-3/8 inch) Diameter Shaft PTO
- 1000 RPM ..... 20 Splines, 44.5 mm (1-3/4 inch) Diameter Shaft PTO



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*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 DEATH OR SERIOUS INJURY.*

M171C

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

# WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case, LLC instructions on machine operation and maintenance.

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October, 2002

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# TOWING THE TRACTOR

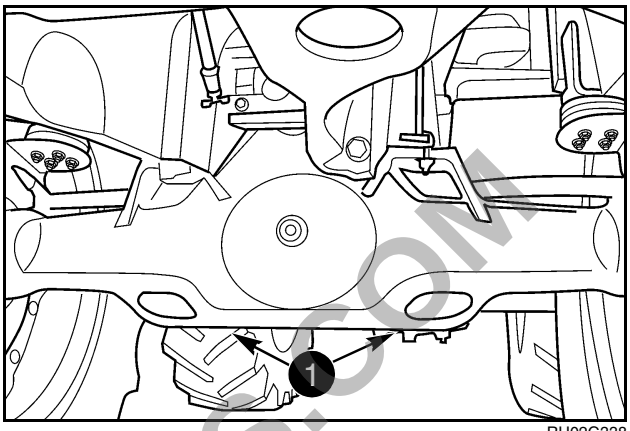
**NOTE:** *The front axle tie-down loops (1) are ONLY for securing the tractor when it is shipped or trucked. DO NOT use the tie-down loops to pull the tractor if it is stuck or to tow the tractor.*

When towing a tractor:

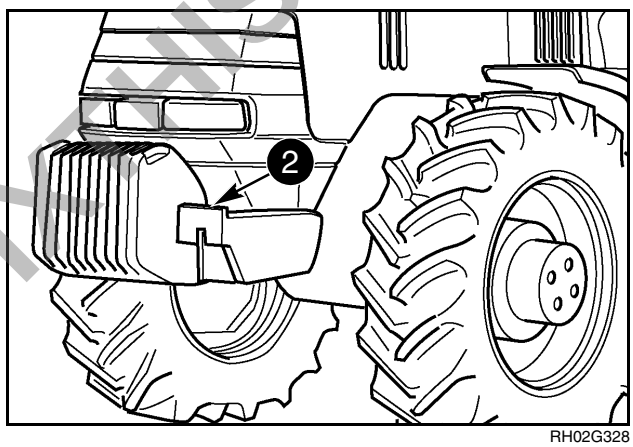
- Make sure all controls are in the correct position (refer to Engine Running or Engine Not Running for correct procedure).
- Use a rigid tow bar and safety chains to pull the tractor. Attach the tow bar and safety chains to the tractor frame or the front support (2).

**IMPORTANT:** *Because of pressure lubrication requirements, special rules apply when the tractor engine is running or not running. Use the correct procedure for the condition of your engine.*

**IMPORTANT:** *The tractor is equipped with a spring applied park brake. The park brake has a special release procedure when the tractor is NOT RUNNING. Review the procedure on the next page before attempting to tow the tractor.*



RH02G338



RH02G328

## Engine Running - Tow Procedure

1. Do not pull the tractor faster than 32.2 km/h (20 mph).
2. Put the transmission control lever in NEUTRAL position.
3. Disengage the mechanical front drive (MFD) (If Equipped).
4. Disengage the differential lock.

**IMPORTANT:** *To prevent damage to the tractor, follow the above procedure carefully when towing the tractor.*

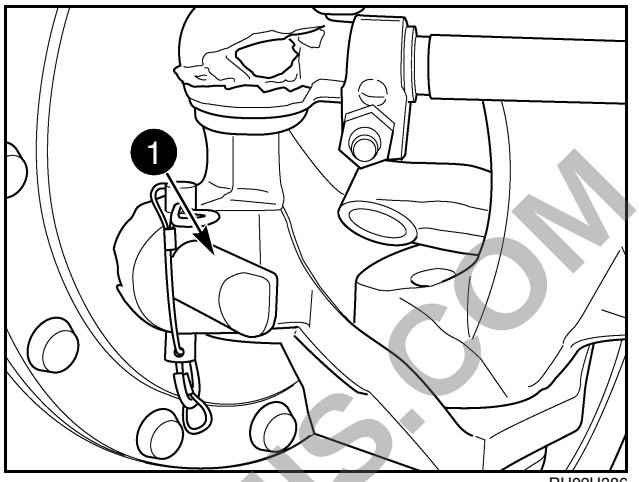
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# MFD STEERING AND OSCILLATION STOPS

Tractors with mechanical front drive (MFD) are equipped with steering and oscillation stops. The steering and oscillation stops are used to give the required steering clearance between the front tires and tractor frame. The front tire size and tread width in use determines the required steering and oscillation angles.



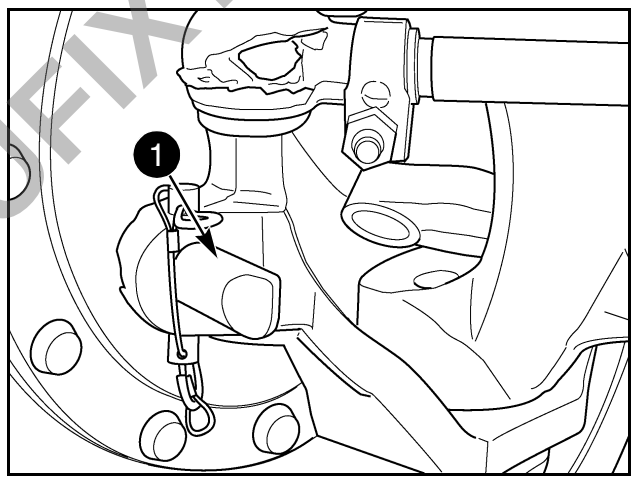

RH02H386

## Steering Stop

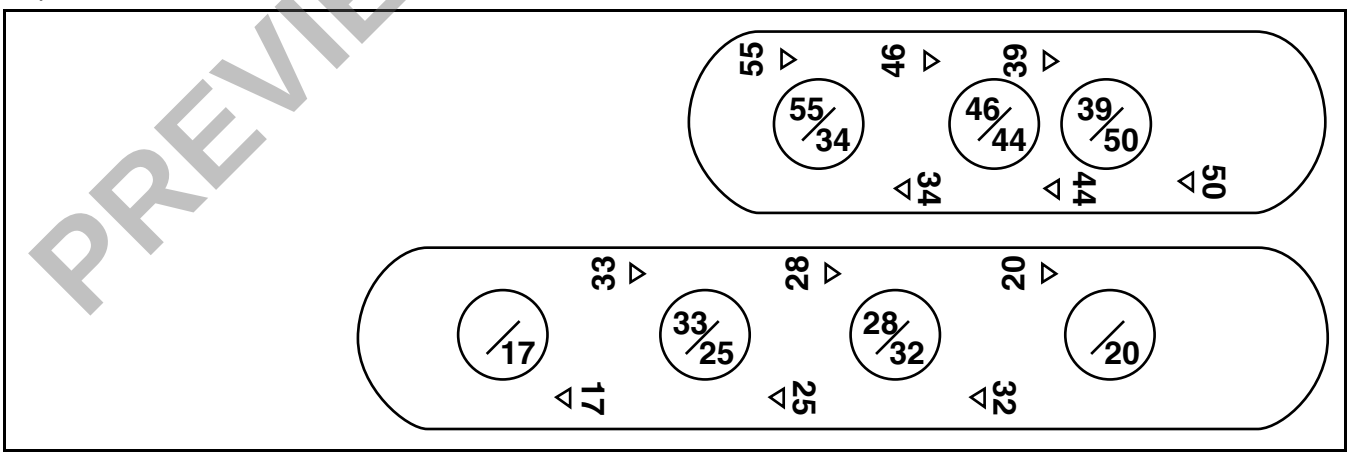
Each adjustment hole in the steering stop (1) is identified with an arrow and a number. With the arrow pointing toward the wheel, the number indicates the turn angle when the mounting pin is installed in that hole.

With the pin installed in the desired hole, the angle number will be visible outside the steering knuckle casting. The steering stop can be installed in either direction depending on the tire size and tread width being used.

The standard stop offers six steer stops settings: 34, 39, 44, 46, 50 and 55. An optional long stop offers six steer stop settings: 17, 20, 25, 28, 32 and 33. See your Case IH dealer to purchase the optional steer stops.




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RH02J072, RH02H280

**Standard Steer Stop and Optional Long Steer Stop**

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