SECTION 2

OPERATION

CONTROLS AND INSTRUMENTS

SEAT, SEAT BELT, AND ROLLOVER PROTECTIVE STRUCTURE (ROPS)

Adjusting the Tractor Seat

Your New Holland tractor is equipped with an adjustable suspension seat.

To move the seat fore and aft, raise the release lever, 1. Because the seat is on an inclined base, more effort is required to move the seat rearward than forward.

To adjust the flotation of the seat, turn the knob, 2, to the right for a firmer ride or to the left for a softer ride.

To swivel the seat, raise the handle, 3, and swivel in the desired direction. The seat will swivel and lock at 10° or 20° to the right or the left.

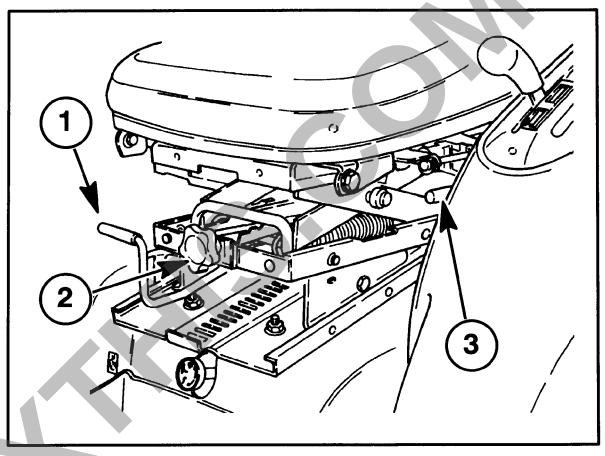


Figure 2-1

Adjusting the Seat Belt

To lengthen the seat belt, tip the buckle end down and pull on the buckle until the ends can be joined. To shorten the belt, buckle it, then pull on the loose end until the belt is snug.

Use soap and water to clean the seat belt if necessary. Do not use carbon tetrachloride, naphtha, etc., as these substances will weaken the webbing. Additionally, do not bleach or redye the webbing, as these products will also weaken the webbing.

Replace the seat belt if it becomes damaged or worn.

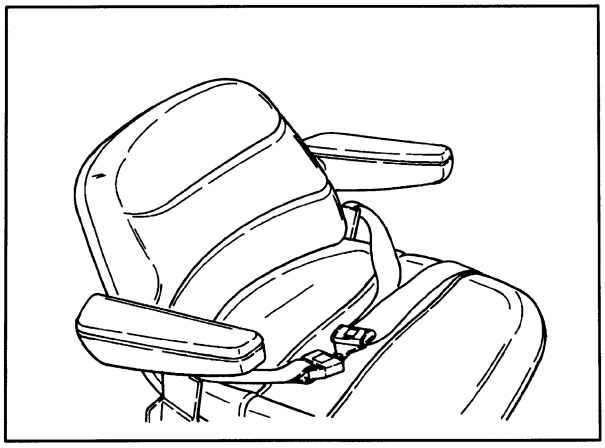


Figure 2-2

NOTE: Optional arm rests shown.

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Rollover Protective Structure (ROPS)

A Rollover Protective Structure (ROPS) and seat belts are standard equipment on this tractor at the time of factory assembly. If the ROPS was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a ROPS and seat belts.

ROPS are effective in reducing injuries in the event of tractor overturn. Overturning a tractor without a ROPS installed can result in serious injury or death. The Rollover Protective Structure and seat belts are available from your New Holland Dealer.

Additionally, the safety offered by the ROPS and seat belt is minimized if your seat belt is not buckled. Always use your seat belt: it can save your life.

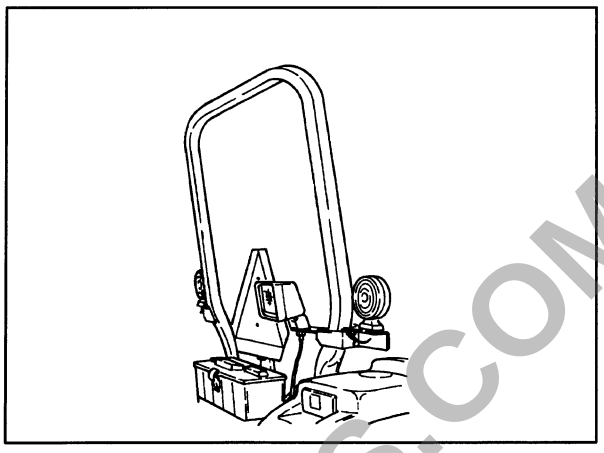


Figure 2-3

Foldable ROPS

A foldable Rollover Protective Structure is available factory installed or as a dealer installed option. Operate with this ROPS in the "up" position whenever possible. Use the ROPS in the "folded" position only when absolutely necessary.

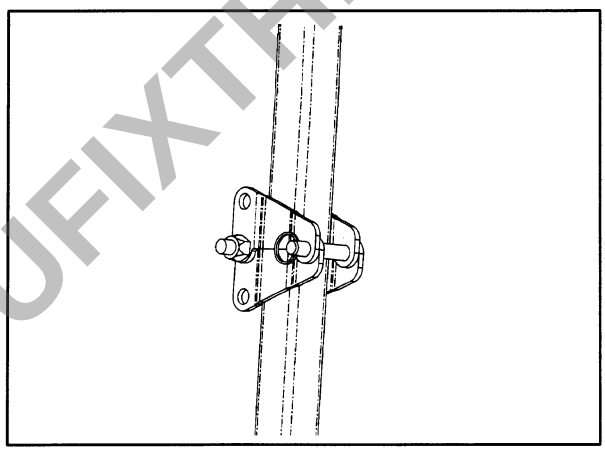


Figure 2-4

WARNING: DO NOT OPERATE THE TRACTOR WITH THE ROLLOVER PROTECTIVE STRUCTURE FOLDED AS A STANDARD OPERATING MODE. A FOLDED ROPS DOES NOT PROVIDE ROLLOVER PROTECTION.

WARNING: ALWAYS WEAR THE SEAT BELT WHEN THE TRACTOR IS EQUIPPED WITH A ROPS. HOWEVER, IF THE ROPS HAS BEEN REMOVED FROM THE TRACTOR, OR IF THE ROPS IS IN THE FOLDED POSITION, THE SEAT BELT SHOULD NOT BE USED.

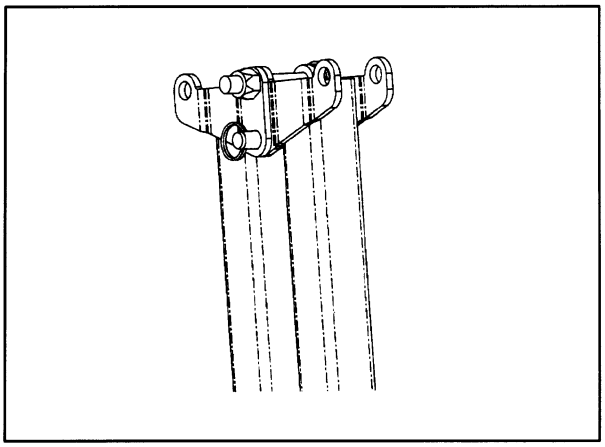


Figure 2-5

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STARTING THE TRACTOR WITH JUMPER CABLES



WARNING: START THE ENGINE ONLY FROM THE OPERATOR'S SEAT. IF SAFETY START SWITCHES ARE BYPASSED, THE ENGINE CAN START WITH THE TRANSMISSION AND/OR PTO IN GEAR.

If you must use jumper cables to start the tractor:

1. Shield your eyes.
2. Connect one end of the jumper cable to the tractor battery positive (+) terminal and the other to the auxiliary battery positive (+) terminal. Next, connect one end of the other jumper cable first to the auxiliary battery negative (-) terminal, then the other end to the tractor starter ground terminal. Finally, start the tractor by following the safe starting procedures outlined under "Starting the Engine." Idle the engine and turn on all electrical equipment (lights, etc.), then disconnect the jumper cables in the reverse order in which they were connected. This helps protect the alternator from damage due to extreme load changes.



WARNING: BATTERIES CONTAIN SULFURIC ACID AND PRODUCE EXPLOSIVE GASES. TO PREVENT PERSONAL INJURY:

- **WEAR EYE AND SKIN PROTECTION.**
- **KEEP SPARKS AND FLAME AWAY.**
- **ENSURE THERE IS ADEQUATE VENTILATION WHILE CHARGING OR USING THE BATTERY.**
- **FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOUND ON THE BATTERY.**

STOPPING THE ENGINE

Pull the hand throttle fully rearward and turn the key switch to the "OFF" position to stop the engine.

IMPORTANT: The warning lights will remain on and discharge the battery if the key switch is not turned to the "OFF" position once the engine has stopped.

BREAK-IN PROCEDURES

Your New Holland tractor will provide long and dependable service if given proper care during the first 50-hour break-in period. During the first 50 hours of operation:

1. Avoid "lugging" the engine. Operating in too high a gear under heavy load may cause engine lugging, which is indicated when the engine will not respond to a throttle increase.
2. Use the lower gear ratios when pulling heavy loads and avoid continuous operation at constant engine speeds. You will save fuel and minimize engine wear by selecting the correct gear ratio for a particular operation. Operating the tractor in low gear with a light load and high engine speed wastes fuel.
3. Avoid prolonged operation at either high or low engine speeds without a load on the engine.
4. Check the instruments frequently and keep the radiator and oil reservoirs filled to recommended levels. Daily checks include the engine oil level, radiator coolant, and air cleaner.

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BRAKE CONTROLS

Brake Pedals

The right brake pedal controls the braking action of the right rear wheel. The left brake pedal controls the left rear wheel brake.

Depress both pedals simultaneously to stop the tractor. To assist in making sharp turns at slow speed, depress the right or left brake pedal as required.

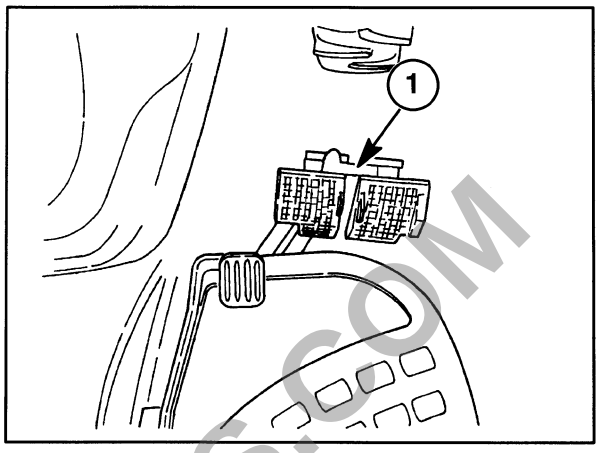


Figure 2-15

WARNING: WHEN OPERATING THE TRACTOR AT HIGH SPEEDS, NEVER ATTEMPT TO MAKE SHARP TURNS BY USING THE BRAKES.

Brake Pedal Lock

The brake pedal lock, 1, is used to secure the brake pedals together. Lock the pedals together, as shown in the illustration at right, whenever the tractor is operated at high speeds or when the tractor is used on the highway.

Parking Brake Control

The parking brake is used to lock the brake pedals in the applied position. Use the parking brake whenever the tractor is parked or when the operator is out of the seat.

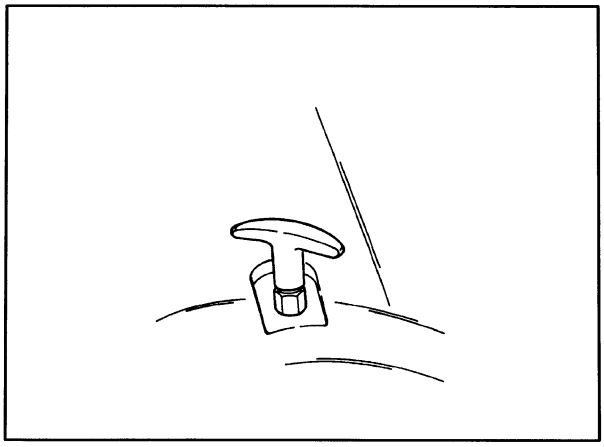


Figure 2-16

To apply the parking brake:

1. Lock the brake pedals together using the brake pedal lock.
2. Depress both brake pedals.
3. Pull up on the "T" park brake handle and both brake pedals will remain in the applied position.

To release the parking brake:

1. Depress the brake pedals to release the retainer.
2. Unlock the brake pedals if operating conditions require independent rear wheel braking action.

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SINGLE-LEVER POSITION ADJUSTMENTS

LINKAGE ADJUSTMENTS

The length of the position control rod is critical and careful adjustment must be observed for proper operation. If the control rod is adjusted too short, the control valve spool will remain in the raised position when the lift arms have reached their maximum height and the system relief valve will blow. If the control rod is too long, the control valve spool will return to neutral before the lift arms reach their full height.

The position control rod should be adjusted any time the link is disconnected for service to the hydraulic system, or any time the relief valve operation is noticed while the lift arms are at the full raise position.

ADJUSTMENT PROCEDURE

1. Loosen the locknut, 1, on the position control rod, 2, and remove the pin, 3, from the link.
2. Set the control lever, 4, to the highest position.
3. Start the engine. The lift arms, 5, should raise and the relief valve should operate.
4. Move the control lever down until the relief valve ceases operation.
5. Adjust the length of the position control rod and clevis to align the pin holes. Then lengthen the rod one additional turn and install the pin. Tighten the locknut.
6. Check the operation. The relief valve should not operate when the lift arms are in the fully raised position.

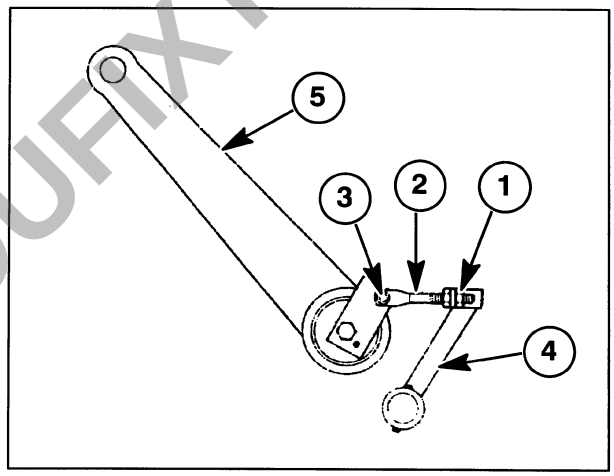


Figure 2-36

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REAR REMOTE CONTROL VALVE (OPTIONAL)

Your New Holland tractor can be equipped with one or two rear remote valves. The control lever(s) is/are located on the right-hand control pod.

To operate the single-spool valve, pull the control lever rearward to extend the cylinder. Push the control lever forward to retract the cylinder. Release the control lever to stop the cylinder in any position before it is fully extended. The lever automatically returns to neutral.

The rear remotes are standard with 1/2″ quick couplers.

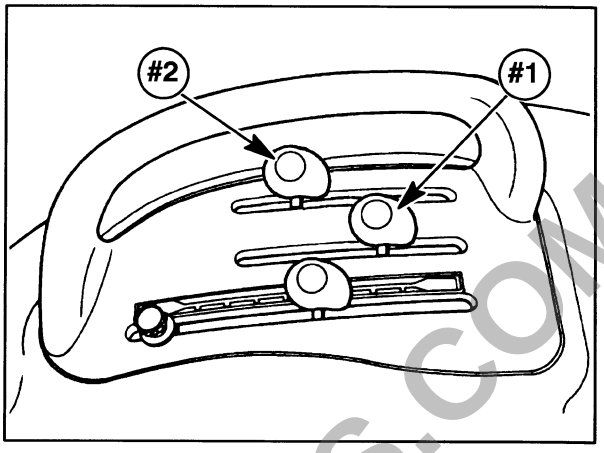


Figure 2-40

TWO-SPOOL CONTROL VALVE (OPTIONAL)

The optional two-spool control valve is mounted to the front of the right-hand fender. This valve is used mainly for front end loader operation, but may also be used to operate other front mounted implements.

To operate the two-spool valve, pull the control lever to the rear or push it sideways to the right to extend the cylinder.

NOTE: When the control lever is pushed right to the second position, a regenerative feature is activated and the exhaust oil from one end of the cylinder is transferred to the other end of the cylinder. When this feature is used, the cylinder will operate at a faster rate. This regenerative feature cannot be used with single-acting cylinders.

Push the control lever forward or pull it sideways to the left to retract the cylinder. Release the control lever to stop the cylinder in any position before it is fully extended. The lever automatically returns to neutral. Fully forward past the detent position is a "FLOAT" position which allows a cylinder to extend or retract freely.

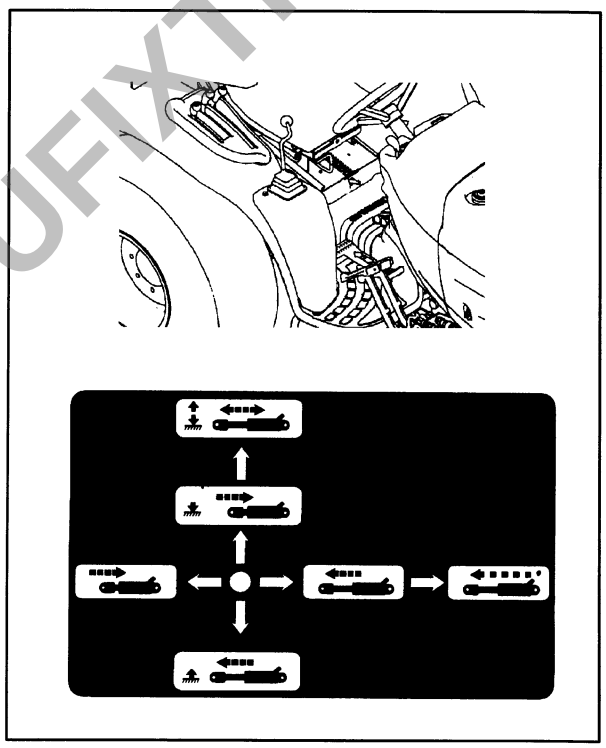


Figure 2-41

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Changing the Fuel Filter

NOTE: Change the diesel fuel filter after the first 50 hours of operation, then following every 200 operating hours thereafter.

1. Close the shutoff valve (the handle should be pointing to the "C" position).
2. Remove the sediment bowl by rotating the retaining nut, 1.
3. Open the fuel shutoff valve, 2, to drain any remaining water from the tank.
4. Discard the old element, 3, and install a new element.
5. Inspect the O rings, 4 and 5, and replace if necessary.
6. Install and securely tighten the sediment bowl.
7. Open the fuel shutoff valve (the handle should be pointing to the "O" position), 2, so fuel will flow to the filter.
8. Bleed the fuel filter and injection pump as described below in "Bleeding the Fuel System."

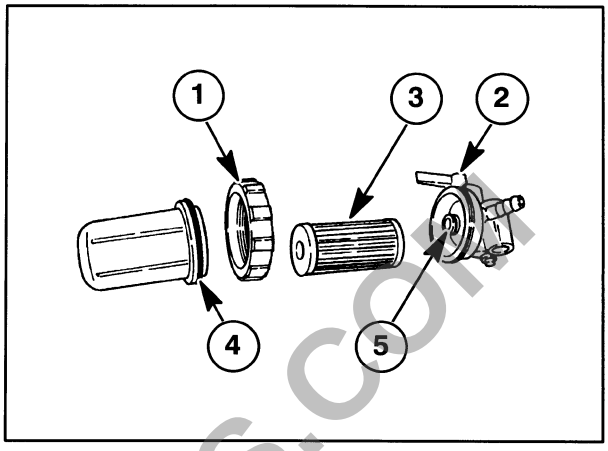


Figure 3-11

Bleeding Air From the Fuel System

Bleed the fuel system if:

- it has been drained.
- a new filter element has been installed.
- the tractor has run out of fuel.
- the lines leading to or from the filter have been disconnected.
- the injection pump has been removed and reinstalled.

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WARNING: FUEL OIL 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.

- **DO NOT USE YOUR HAND TO CHECK FOR LEAKS. USE A PIECE OF CARDBOARD OR PAPER TO SEARCH FOR LEAKS.**
- **IF ANY FLUID IS INJECTED INTO THE SKIN, OBTAIN MEDICAL ATTENTION IMMEDIATELY OR GANGRENE MAY RESULT.**

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY.

To bleed the fuel system:

1. Make sure there is adequate fuel in the fuel tank.
2. Open the fuel shutoff valve, 1.

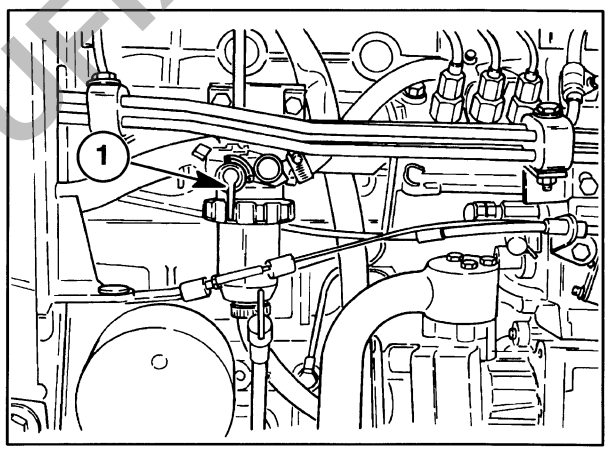


Figure 3-12

3. Open the bleed screw, 1, at the pump, then close the bleed screw when air-free fuel flows.
4. Push the hand throttle to the high speed position. Turn the engine over for a few seconds to bleed the high pressure fuel tubes.

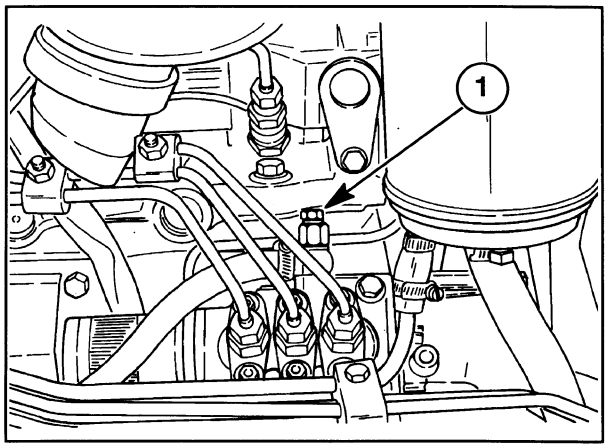


Figure 3-13

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Draining and Flushing the Cooling System

NOTE: Drain and flush the radiator and engine block every 12 months. Refill with a 50/50 mixture of permanent antifreeze and clear water.

To drain the cooling system:

1. Use a suitable receptacle to catch the used coolant. Remove the radiator cap and open the drain valve, 1, on the right-hand tractor frame to drain the radiator and engine block.
2. After the coolant has drained, place a water hose in the radiator filler neck and run water through the system. When water is flowing from the block drain valve, start the engine. When the water flowing from the drain valve is free of discoloration and sediment, stop the engine and remove the hose. Allow all water to drain from the system through the drain valves.
3. Close the drain valve and slowly refill the system with a 50/50 solution of permanent antifreeze and water. Fill until the coolant level is approximately 1-1/2″ (4 cm) below the bottom of the filler neck. Do not fill beyond this level.
4. Clean the radiator cap and cap seal and install the cap.
5. Clean the radiator front screen, 1.
6. Run the engine until normal operating temperature is reached, then stop the engine. Recheck the coolant level when the engine is cold and add additional coolant as necessary.

IMPORTANT: Never run the engine when the cooling system is empty. Do not add cold water or cold antifreeze solution if the engine is hot.

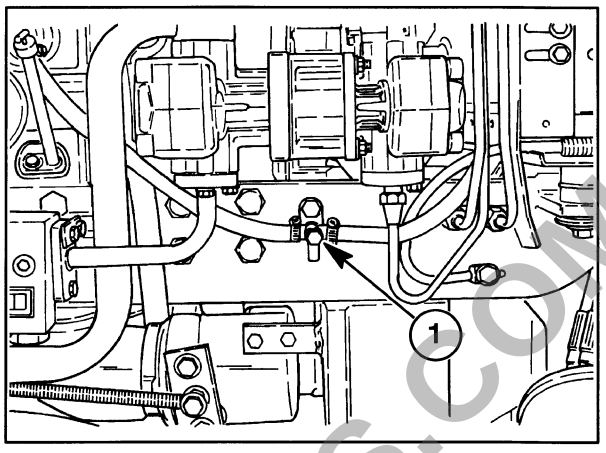


Figure 3-27

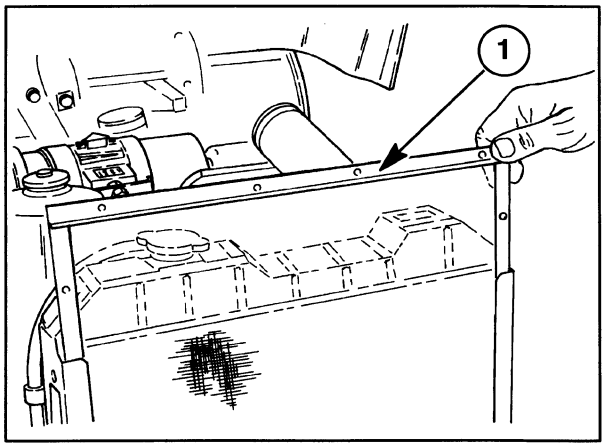


Figure 3-28

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SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before operating this tractor. Equipment should be operated only by those who are responsible and instructed 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 roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your New Holland Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.

SERVICING THE TRACTOR

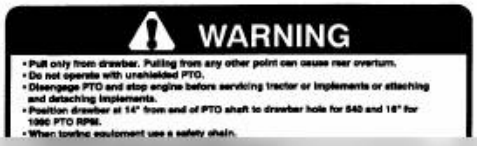
1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. Keep open flame or cold weather starting aids away from the battery to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
   - DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
   - Stop the engine and relieve pressure before connecting or disconnecting lines.
   - Tighten all connections before starting the engine or pressurizing lines.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a New Holland Dealer.
8. The fuel oil 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 other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Continuous long-term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.
10. Some components of your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.) may contain asbestos. Breathing asbestos dust is dangerous to your health. You are advised to have any maintenance or repair on such components carried out by an authorized New Holland

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DECALS

If safety or instruction decals become damaged or illegible, new decals should be obtained from your New Holland Dealer and placed at their original positions.

SAFETY DECALS







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