



**1825B**  
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NORTH AMERICAN MODELS

Operators Manual

Bur 9-27650



**CASE**

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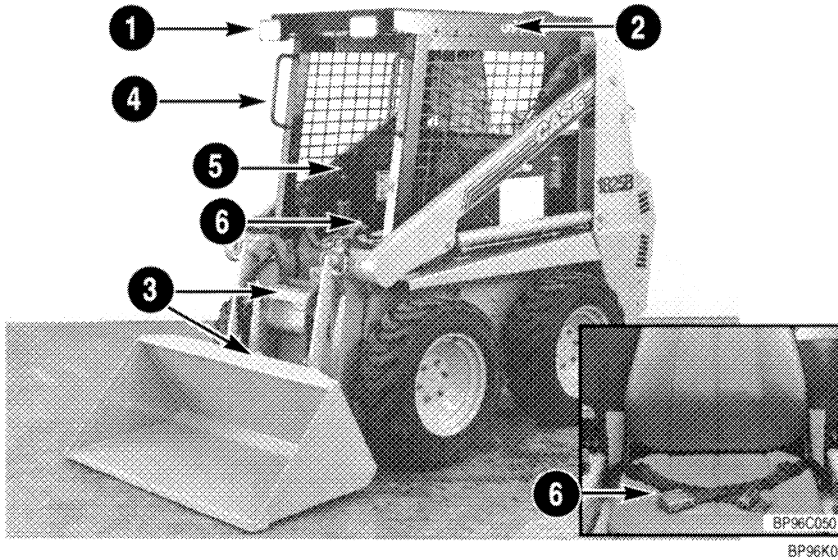


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# SAFETY/DECALS/HAND SIGNALS

## MAIN SAFETY FEATURES



BP96K051

- 1. Front Work Lamps
- 2. ROPS
- 3. Steps

- 4. Hand Rails
- 5. Seat Bars
- 6. Seat Belt

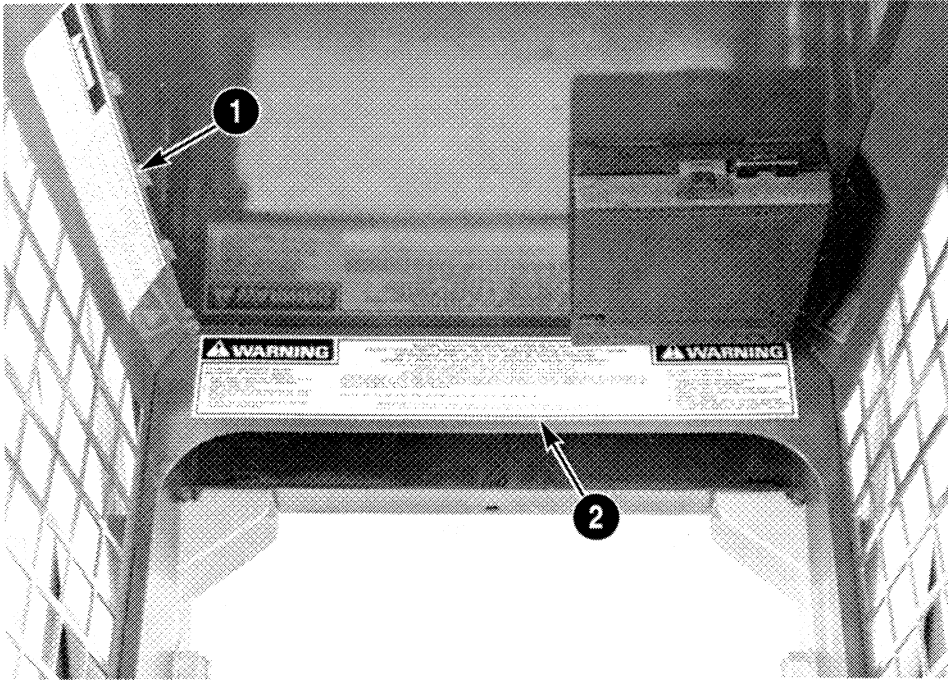


BP96M006

- 1. Rear Window - Emergency Exit
- 2. Backup Alarm (If Equipped)

- 3. Rear Work Lamp
- 4. Loader Arm Support Strut

SAFETY/DECALS/HAND SIGNALS



B876216M

1.

<p><b>WARNING</b></p> <p>IF YOU SERVICE THE MACHINE WITH LOADER LIFT ARMS RAISED, ALWAYS USE THE SUPPORT STRUT. FAILURE TO FOLLOW THIS PROCEDURE CAN CAUSE SERIOUS INJURY OR DEATH IF THE LOADER LIFT ARMS ARE LOWERED BY ACCIDENT.</p>	<p><b>PROCEDURE TO USE THE SUPPORT STRUT</b></p> <ol style="list-style-type: none"> <li>1 MAKE SURE THE LOADER BUCKET IS EMPTY, LOWER THE LOADER LIFT ARMS TO THE GROUND AND STOP THE ENGINE.</li> <li>2 REMOVE THE PIN FROM THE SUPPORT STRUT AND LOWER THE SUPPORT STRUT ONTO THE LIFT CYLINDERS.</li> <li>3 START THE ENGINE AND SLOWLY RAISE THE LOADER LIFT ARMS UNTIL THE SUPPORT STRUT IS ON THE LIFT CYLINDER ROD. SLOWLY LOWER THE LOADER LIFT ARMS UNTIL THE SUPPORT STRUT MAKE'S CONTACT WITH THE LIFT CYLINDER TUBE.</li> <li>4 INSTALL THE PIN IN THE SUPPORT STRUT.</li> </ol>	<p><b>PROCEDURE TO PUT THE SUPPORT STRUT IN STORAGE</b></p> <ol style="list-style-type: none"> <li>1 START THE ENGINE AND RAISE THE LOADER LIFT ARMS APPROXIMATELY ONE OR TWO INCHES (25 TO 50MM).</li> <li>2 STOP THE ENGINE AND RAISE BOTH SEAT BARS. MAKE SURE THE LOADER CONTROLS ARE LOCKED. REMOVE SUPPORT STRUT PIN RAISE SUPPORT STRUT TO THE STORAGE POSITION AND INSTALL PIN</li> <li>3 SIT IN THE SEAT, PUSH BOTH BARS DOWN AND LOWER THE LOADER LIFT ARMS TO THE GROUND</li> </ol>
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321-7029

2.

<p><b>WARNING</b></p> <p>TO PREVENT UNEXPECTED MACHINE MOVEMENT OR ROLLOVER ALWAYS:</p> <ol style="list-style-type: none"> <li>1 KEEP BOTH HANDS ON CONTROLS AT ALL TIMES WHILE OPERATING MACHINE</li> <li>2 CARRY LOAD LOW</li> <li>3 USE LOW SPEED FOR HILLSIDE OR RAMP OPERATION. STAY OFF OF SLOPE IF IN DOUBT.</li> <li>4 BLOCK ELEVATED COMPONENTS BEFORE SERVICING EQUIPMENT</li> </ol>	<p>BEFORE STARTING ENGINE, FASTEN SEAT BELT. STUDY OPERATOR'S MANUAL SAFETY MESSAGES, READ ALL SAFETY SIGNS ON MACHINE AND CLEAR THE AREA OF OTHER PERSONS. LEARN &amp; PRACTICE SAFE USE OF CONTROLS BEFORE OPERATING</p> <p>IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON MACHINE OPERATION, SERVICE, AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR AND SERVICE MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER</p> <p>STEERING CONTROL LEVERS MAY NOT AUTOMATICALLY RETURN TO NEUTRAL POSITION DURING COLD WEATHER STARTS OR OPERATE MACHINE AT VERY SLOW SPEEDS UNTIL MACHINE REACHES NORMAL OPERATING TEMPERATURE. DO NOT REMOVE ANY SAFETY EQUIPMENT, SUCH AS ROLLOVER PROTECTIVE STRUCTURE OR SIDE SCREENS (OR SIDE WINDOWS) EXCEPT FOR SERVICING. PROPERLY REINSTALL BEFORE USING MACHINE</p> <p>FAILURE TO FOLLOW THESE PRECAUTIONS CAN RESULT IN INJURY OR DEATH</p> <p><b>IMPORTANT:</b> TO AVOID MACHINE DAMAGE, DO NOT PUSH OR TOW IF MACHINE IS DISABLED OR ENGINE CANNOT BE STARTED WITH BOOSTER BATTERY. TRANSPORT ON TRUCK OR TRAILER</p>	<p><b>WARNING</b></p> <p>TO AVOID INJURY, DUE TO UNEXPECTED MACHINE MOVEMENT ALWAYS:</p> <ol style="list-style-type: none"> <li>5 WHEN LEAVING MACHINE, LOWER LOADER ARMS TO GROUND.</li> <li>6 KEEP ANY PART OF OPERATORS BODY FROM UNDER LOADER ARMS OR ATTACHMENTS</li> <li>7 PROHIBIT RIDERS.</li> <li>8 SHUTOFF ENGINE WHEN LEAVING MACHINE.</li> <li>9 SET PARKING BRAKE (IF EQUIPPED) WHEN LEAVING MACHINE, OR USE WHEEL BLOCKS</li> </ol>
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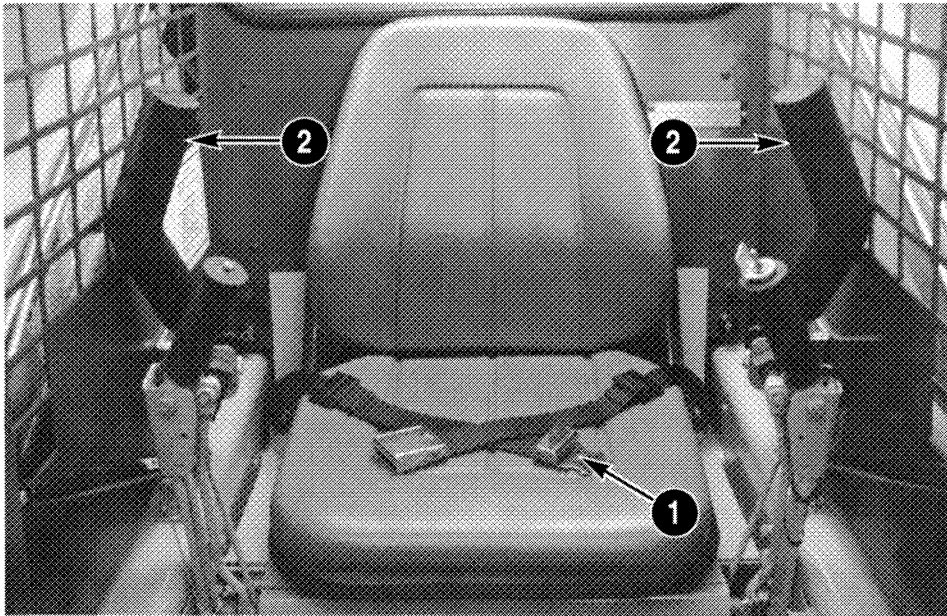
## INSTRUMENTS AND CONTROLS

### OPERATOR RESTRAINT SYSTEM

This system protects you during the operation of the machine and when you leave the machine. The seat belt, seat bar, and the related parts are essential elements of the system.

**SEAT BELT:** The seat belt keeps you within the protective area of the ROPS when you operate the machine. Refer to Seat Belt use in this manual for the correct operation and Torque Specifications for the seat belt and the belt mounting fasteners.

**SEAT BARS:** The seat bars are an additional restraining device and arm rest. When in the raised position, the seat bars automatically engage the parking brake and prevent the loader and bucket control movement. Refer to Seat Bars in this manual for the correct operation, test, and adjustment of the seat bars.



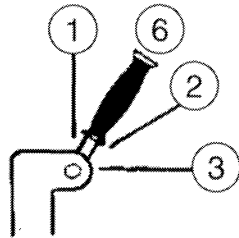
BP96C050

1. Seat Belt
2. Seat Bars

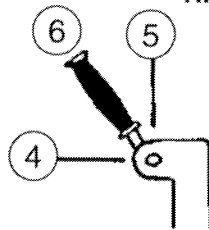
## LOADER CONTROLS

### Hand Levers

#### Left Control

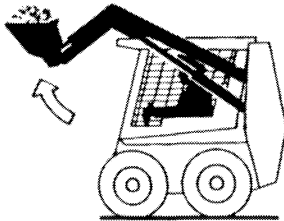


#### Right Control

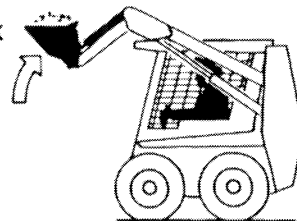


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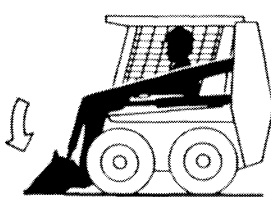
①  
RAISE



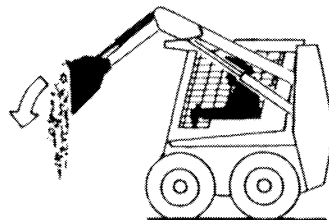
④  
ROLLBACK



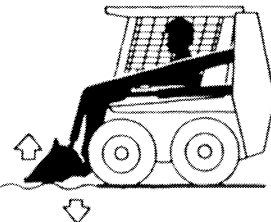
②  
LOWER



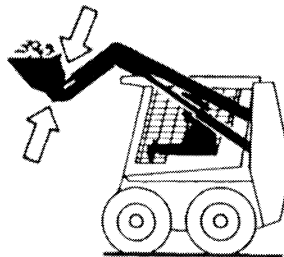
⑤  
DUMP



③  
FLOAT



⑥  
HOLD  
(NEUTRAL)



When in FLOAT, the bucket can follow the level of the ground without movement of the control lever.

The loader lift arms and bucket stop moving when the control lever is in HOLD.

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## OPERATING IN COLD WEATHER

Cold weather conditions require specific procedures. During these conditions, your machine will require special attention to prevent serious damage. Cold weather maintenance will extend the service life of your machine.

### 1. BATTERY AND ELECTRICAL

**SYSTEM:** Clean the battery and make sure the battery is at full charge.

**NOTE:** *A fully charged battery at -17°C (0°F) has only 40 percent of the normal starting power. When the temperature falls to -29°C (-20°F), the battery has only 18 percent of its power remaining.*

If distilled water is added to the battery when the temperature is below 0°C (32°F), charge the battery or run the engine for approximately two hours. This procedure will prevent battery freezing.

Inspect the battery cables and terminals. Clean the terminals and spray each with a coat of battery terminal protector to prevent corrosion.

**2. LUBRICANTS:** Use the correct viscosity oil in each component. As an example: SAE 30 engine oil at 0°C (32°F) increases the starting load by about 250 percent. Make sure you follow the recommended oil and filter service as shown in this manual.

**3. DIESEL FUEL SYSTEM:** Check with your fuel supplier for the correct cold weather fuel. Diesel engine power will be reduced if wax particles are in the fuel filter.

Cold temperature operation can cause moisture condensation in the fuel tank. Keep the fuel tank full and check for water frequently. See Fuel Tank instructions in this manual. Failure to remove water from the fuel may result in an inoperative engine and damage to the fuel system.

**4. COOLING SYSTEM:** Check the coolant mixture before you operate in cold temperatures. A mixture of 50% ethylene glycol and 50% water must be used in this machine. This mixture is used if the lowest ambient temperature is above -37°C (-34°F). If the ambient temperature is lower, adjust the mixture to 60% ethylene glycol and 40% water. It is recommended that ethylene glycol and water be used in your machine all year.

**5. COLD TEMPERATURE STARTING AIDS:** See your Case dealer for extra starting aids such as a battery heater.

**6. GENERAL:** Before you work the machine, see PREVENTING DAMAGE TO THE HYDROSTATIC SYSTEM IN COLD TEMPERATURES" in this manual.

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## Object Lifting with the Backhoe

**IMPORTANT:** *Read the backhoe manufacturer's instructions before doing any lifting operations.*

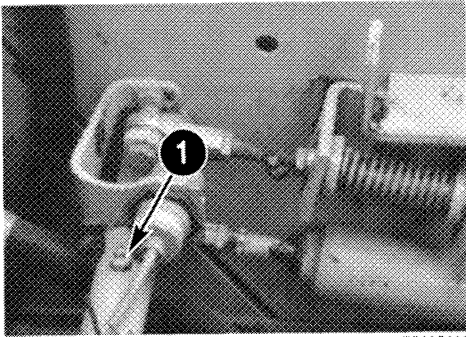
The backhoe is NOT a crane. For this reason, always be very careful when you lift an object with the backhoe. Read the precautions that follow before you begin.

1. Know and understand each signal from the signalman before you begin.
2. Always know the location of all persons in your working area.
3. Attach a hand line to the object before you start. Make sure the person holding the hand line is away from the object.
4. Test lift the object before you begin your job.
  - a. Move the machine close to the object to be lifted.
  - b. Use a cable or sling to fasten the object to the end of the dipper at the bucket pivot pin.
  - c. Lift the object with the backhoe so it is 25 to 50 mm (one or two inches) above the ground.
  - d. Swing the object all the way to one side.
  - e. Move the object away from the machine. Make sure you keep the object 25 to 50 mm (one or two inches) above the ground.
  - f. Lower the object to the ground if (1) one of the stabilizers is raised above the ground or (2) there is any other indication that the stability of the machine is reduced.
5. Always move the object slowly. Never move the load over persons.
6. When the object is raised, keep all persons at a safe distance until the object has been lowered onto the ground.
7. Remember to lower the object to the ground if (1) one of the stabilizers is raised above the ground or (2) there is any other indication that the stability of the machine is reduced.

## GREASE FITTINGS (Every 100 Hours)

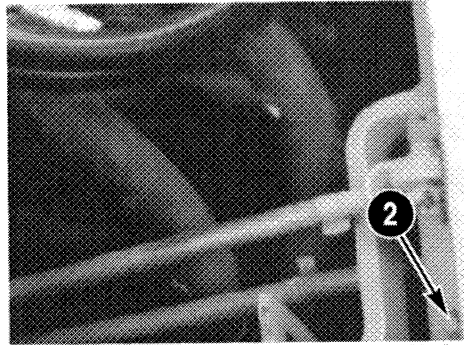
### Machine Control Pivots

Use Case Molydisulfide Grease



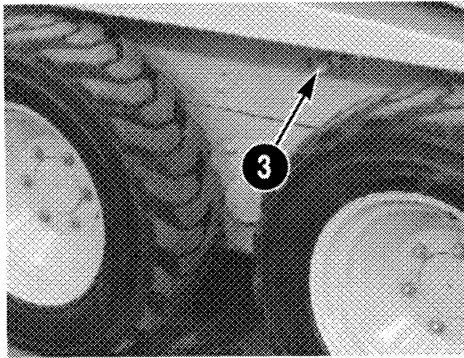
BP96C023

1. Steering Cross Shaft



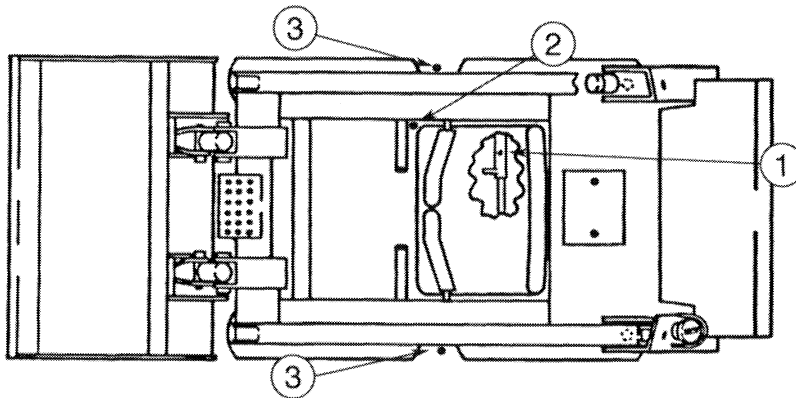
BP96C024

2. Loader Control Linkage



BP96C026

3. Control Handle Pivot (1 each side)



BB71462J

## DIESEL FUEL SYSTEM

### Service Specifications

Every 50 Hours of Operation.....	Drain water from fuel filter
Every 500 Hours of Operation.....	Replace fuel filter
Every 1000 Hours of Operation.....	Drain water from fuel tank
Fuel Tank Capacity .....	32.2 litres (8.5 gallons)

### Fuel Storage

Use No. 2 diesel fuel in the engine of this machine. The use of other fuels can cause the loss of engine power and high fuel consumption.

In very cold temperatures, a mixture of No. 1 and No. 2 diesel fuels is temporarily permitted. See the following:

**NOTE:** See your fuel dealer for winter fuel requirements in your area. If the temperature of the fuel lowers below the cloud point (wax appearance point), wax crystals in the fuel will restrict the fuel filter and cause the engine to lose power or not start.

The diesel fuel used in this machine must meet the specifications in the chart on "Specifications for Acceptable No. 2 Diesel Fuel" on page 78 or Specification D975-81 of the American Society for Testing and Materials.

If you keep fuel in storage for a period of time, you can get foreign material or water in the fuel storage tank. Many engine problems are caused by water in the fuel.

Keep the fuel storage tank outside and keep the fuel as cool as possible. Remove water from the storage container at regular periods of time.

Fill the unit's fuel tank at the end of the daily operating period to prevent condensation in the fuel tank.



**WARNING:** Engine fuel is flammable and can cause a fire or an explosion. Do not fill the fuel tank or service the fuel system near an open flame, welding, burning cigars, cigarettes, etc. SA022



**WARNING:** Never refuel the machine when the engine is hot or running. Never smoke while refueling. M139C

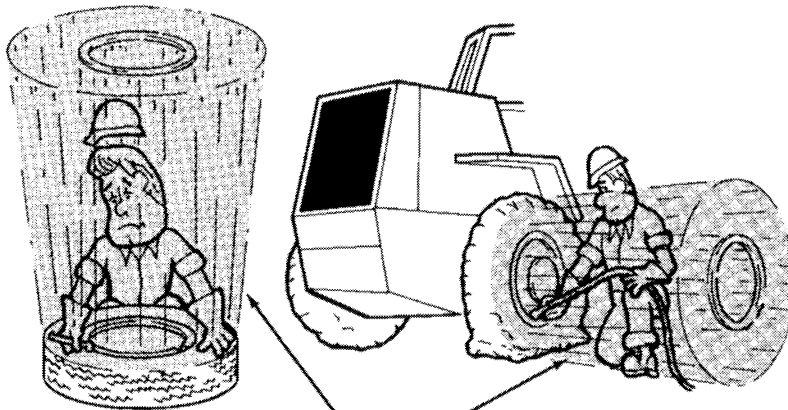
## MAINTENANCE AND ADJUSTMENTS

### TIRE AND RIM SERVICE

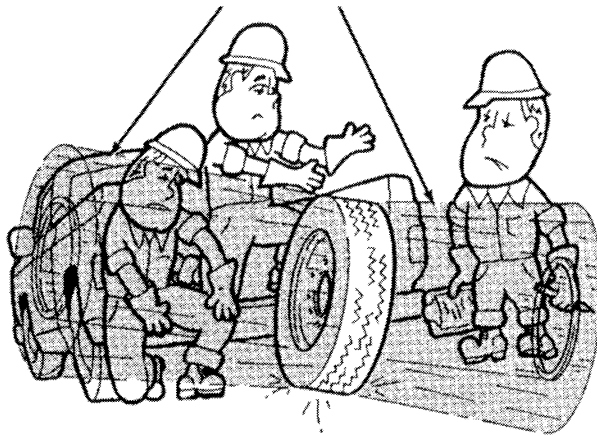


**WARNING:** Exploding tires and/or rim parts can cause injury or death. Keep yourself and others out of the DANGER AREA. Stand on the tread side of the tire. Always use the correct air pressure and follow the instructions in this manual for adding air or servicing the tires.

SD020



KEEP OUT OF DANGER AREAS



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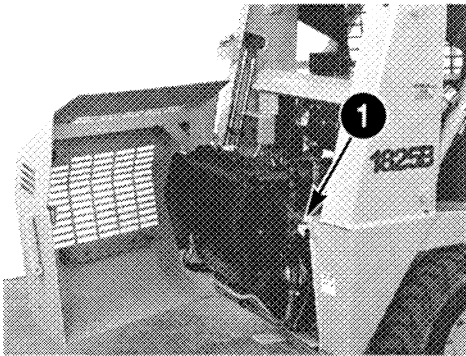
The above illustrations show danger areas caused by exploding tires and/or rim parts. KEEP YOURSELF AND OTHERS OUT OF THESE DANGER AREAS.

The next page shows the correct methods that you must use when adding air or servicing a tire.

## MAINTENANCE OF THE SEAT BELT

1. Check the seat belt for damage each time it is used. Replace all parts that are damaged.
2. Make sure the seat belt mounting bolts are tight after every 500 hours of operation. See Torque Specifications for Seat and Seat Belt on page 102 of this manual.
3. Keep the seat belt clean. Use only soap and water to wash the seat belt. Dye or other compounds can cause damage to the seat belt.

## FAN BELT INSPECTION



1. Fan Belt

Inspect the fan belt after the first 20 hours of operation and every 250 hours after that.

If the fan belt shows any signs of damage, such as fraying, checking or splitting, it must be replaced.

### Fan Belt Adjustment

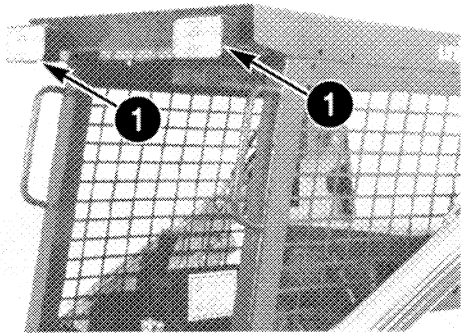
Check the fan belt deflection by pressing with your hand, on the longest span, which is between the fan pulley and the alternator pulley. A total deflection of 7 to 9 mm (.28 to .35 in) is required while applying 10 kg (20 lbs) of pressure.

If the total deflection is not within this specification, adjust the fan belt by using the following procedure.

1. Loosen the alternator adjusting strap bolt.
2. Loosen the alternator mounting bolt.
3. Move the alternator either in or out to loosen or tighten the fan belt as required.
4. When the correct fan belt tension has been achieved, tighten the alternator adjusting strap bolt.
5. Tighten the alternator mounting bolt.

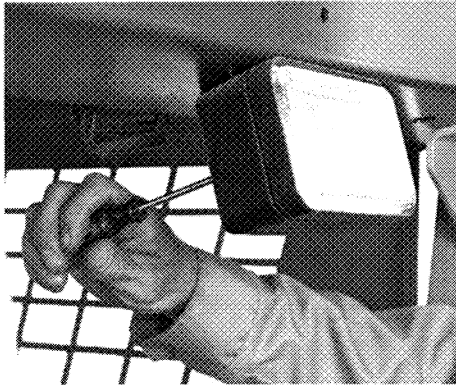
## WORK LAMPS

To replace a bulb, remove the two screws from the back of the lamp, disconnect the electrical connector, and install the new bulb

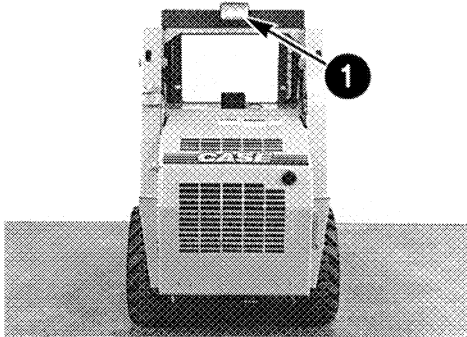


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1. Front Work Lamps

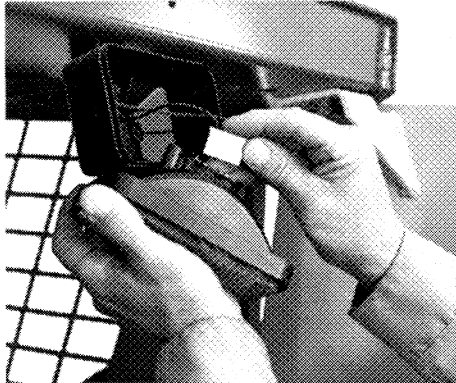


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1. Rear Work Lamp



B876596W

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