821

Operator’s Manual

9-17390 GB

CASE

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⚠ MACHINE OPERATION ⚠

Check all controls in a clear area and make sure the machine is operating correctly.

Do not allow other persons to ride on the machine. Other persons can fall or can cause an accident.

Dust, fog, smoke, etc., can decrease your vision and cause an accident. Stop the machine or decrease the speed until you can see everything around you in the work area.

Contact with overhead power lines can cause severe electrical burns or death from electrocution. Make sure there is enough clearance between the machine and overhead power lines.

Electrical cables, gas pipes, water pipes, sewers, or other underground objects can cause injury or death. Learn the location of underground hazards before you operate your machine in a new area.

If this machine rolls over you can be injured or killed. You must make a judgment if weather, road, or earth conditions will permit safe operation on a hill, ramp, or rough ground.

Stay away from hazards areas such as ditches, overhangs, etc. Walk around the work area before you start and look for hazards.

Be alert and always know the location of all workers in your area. Keep all other persons completely away from your machine. Injury or death can result if you do not follow these instructions.

Keep the loader bucket low when moving around the work area and be careful when you raise the load to dump.

Engine exhaust fumes can cause death. If you operate this machine in an enclosed area, use good ventilation to replace the exhaust fumes with fresh air.

⚠ PARKING THE MACHINE ⚠

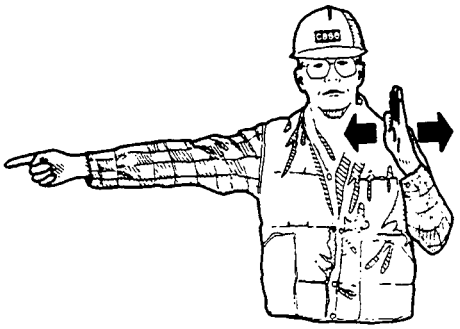
When you park the machine and before you leave the operators area, always support or lower the loader to the ground, apply the brake, stop the engine, remove the key, and turn the master disconnect switch to OFF.

Follow the instructions in this manual for parking the machine.

Always face the machine and use the hand rails and steps when getting off. Do not rush and do not jump from the machine.

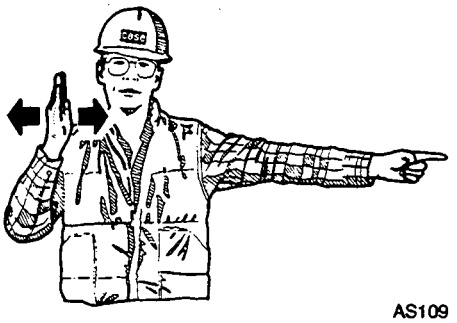
Turn Machine Left (Swing Load Left)

To stop movement, stop moving hand and make a fist.



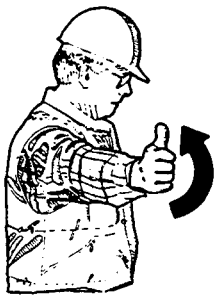
Turn Machine Right (Swing Load Right)

To stop movement, stop moving hand and make a fist.



AS109

Roll Back Loader Bucket

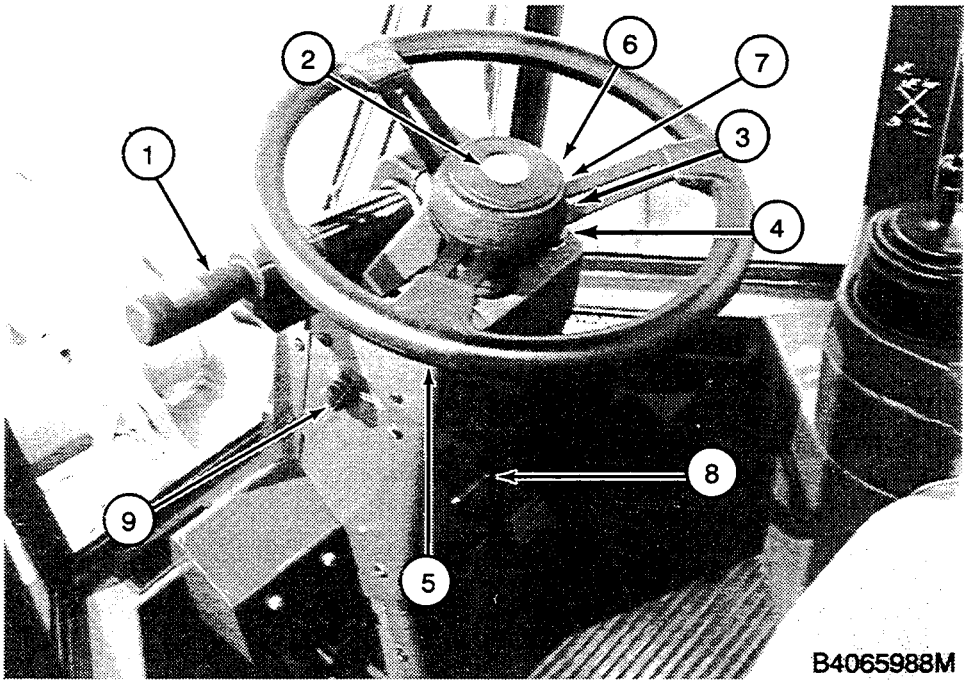


Dump Loader Bucket



AS110

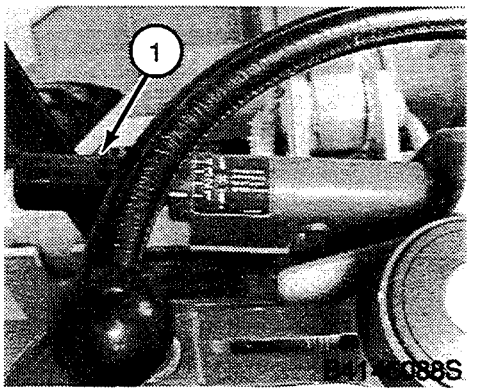
FRONT CONSOLE



1. TRANSMISSION CONTROL LEVER
2. HORN
3. INDICATOR LAMP FOR TURN SIGNALS (GREEN)
4. MASTER WARNING LAMP (RED)
5. FOUR WAY FLASHER SWITCH
6. LIGHTS LEVER
7. HIGH BEAM INDICATOR LIGHT
8. STEERING WHEEL TILT CONTROL
9. COLD START BUTTON

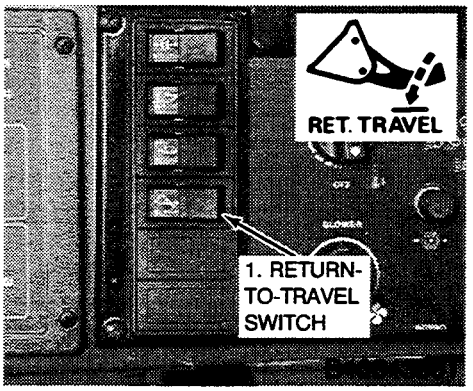
1. TRANSMISSION CONTROL LEVER: The transmission control lever has four speeds: 1st, 2nd, 3rd, and 4th. Twist the end of the control lever to select the correct speed. This control lever also selects FORWARD, NEUTRAL, and REVERSE. The center position is NEUTRAL. You must shift to NEUTRAL before you start the engine and when you park the machine.

NOTE: *When you change directions, you must down shift to 2nd or 1st and then shift to REVERSE or FORWARD.*



Return-To-Travel

If, when using Return-To-Dig, you want the bucket to stop at the CARRY position, push the left side of the Return-To-Travel switch. The loader bucket will stop automatically at the adjusted carry height above the ground.



Push down the left side of the Return-To-Travel function switch to select this feature.

Push the switch to the middle position for OFF.

NOTE: *The right side of the switch is for FLOAT. See page 41.*

Adjusting the Carry Height (Minor Adjustment)

1. Lower the loader bucket to the ground.

2. Stop the engine.

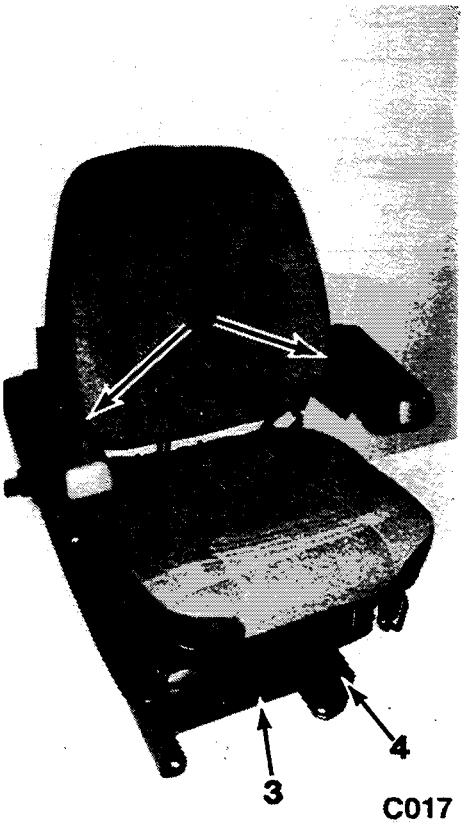
3. Loosen the front actuator.



4. To increase the carry height, move the actuator down in the slot. Move the actuator up in the slot to decrease the carry height.

5. Tighten the actuator and check the adjustment.

NOTE: *For a major adjustment of the Return-To-Travel, see page 139.*



C017

2. SEAT ADJUSTMENT: The front and rear of the seat has independent adjustment. To lift the front end, pull the handle (3) upwards and raise the seat. Release the handle when the desired angle is obtained. The rear end of the seat can be lifted or lowered pushing the seat backwards and positioning it at any of the three settings.

3. FORWARDS / BACKWARDS ADJUSTMENT: Move lever No. 4 upwards and slide the seat forwards or backwards until the the desired position is obtained. Then, release lever. It will go to its original position when the seat is properly adjusted.

4. BACK ANGLE ADJUSTMENT: Rest your back firmly against the backrest. Press downwards on one or other of the two levers No. 5, positioning the backrest in any of the three settings.

5. WEIGHT CONTROL INDICATOR: (See Weight Adjustment).

ENGINE OPERATION

Walk-Around Inspection

Do the following items each day before you start the engine:

1. Check for leaks under the machine.

2. Check the loader for wear, damage or missing parts.

3. Check the machine for debris, especially around the engine area and radiator. Make sure these areas are clean.

4. Clean or replace any safety or instructional decals that cannot be read.

5. Clean the steps, hand rails, and operators compartment. Remove any loose items in the operators compartment.

6. Check the machine for broken, damaged, loose or missing parts. Replace, tighten or adjust as required before you operate the machine.

7. See the maintenance chart on page 86 and do the items in the 10 Hour section.

NOTE: *If this is a new machine, or a machine with a new engine, transmission, etc., see Run-In Period on page 59 for additional information.*

4-In-1 Bucket

The 4-in-1 bucket can be used as a standard bucket, scraper, dozer, or clamshell.

Standard Bucket

Close the clam and the bucket is a standard bucket.



Scraper

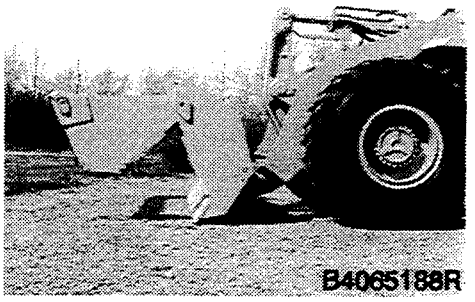
Put the bucket in the position shown and open the clam a small amount. The clam controls the depth of cut. Close the clam when the bucket is full.



Clamshell



Dozer



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4. Inflate the tire to the recommended air pressure. DO NOT inflate the tire more than the recommended pressure given on page 81.



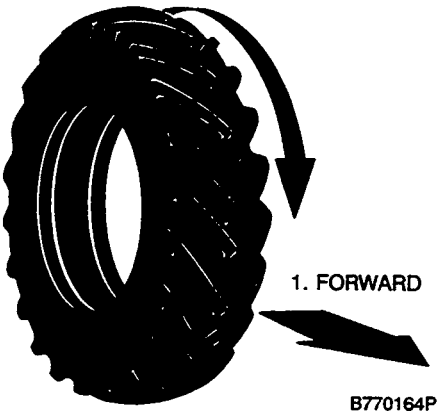
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Tire or Rim Service

Always have a qualified tire mechanic service the tires and rims on this machine. It is recommended that you have this mechanic inflate the tires. To prevent accidents, always use a restraining device (tire inflation cage), correct equipment, and correct procedure. Explosive separation of the tire (single piece rim) or the tire and/or rim parts (multi-piece rim) can cause serious injury.

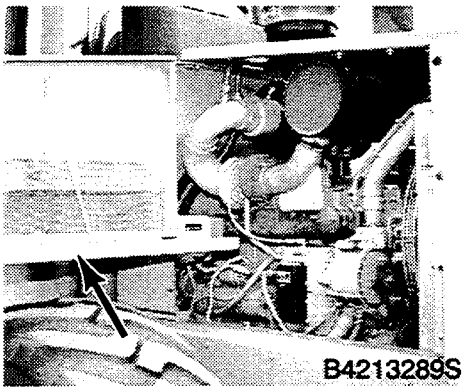
Installing Tires

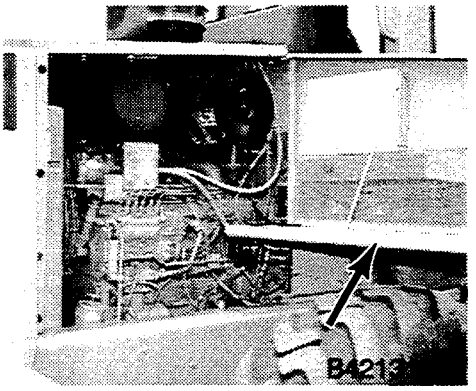
When the tire is installed on the wheel, make sure the tire thread is in the direction shown.

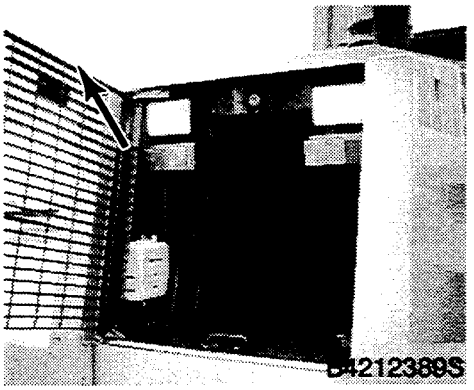


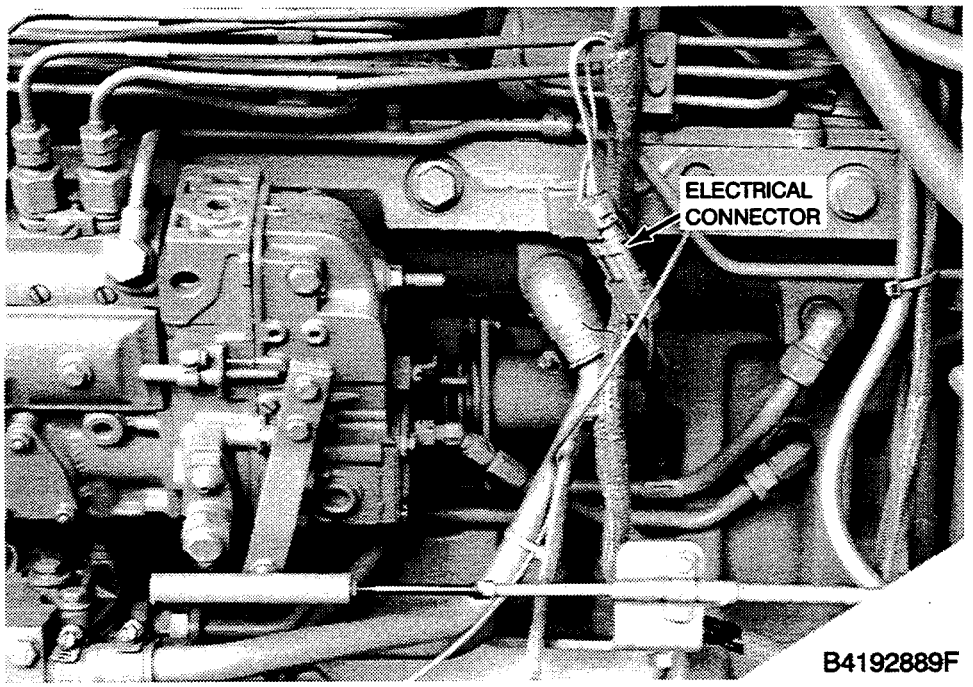
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ACCESS DOORS









10. Fill the turbocharger oil lines with oil.

    a. See the photo at top of this page and disconnect the electrical connector to the injection pump solenoid. This will prevent the engine from starting.

    b. Turn the key switch to the START and actuate the starter for 10 to 20 seconds.

    c. Connect the wire to the injection pump solenoid and start the engine.

11. Start the engine and run at idle speed. Check the engine oil filter for leaks. After two minutes, stop the engine, wait for about 2 or 3 minutes, and check the engine oil level with the dipstick.

12. Close the engine access door.

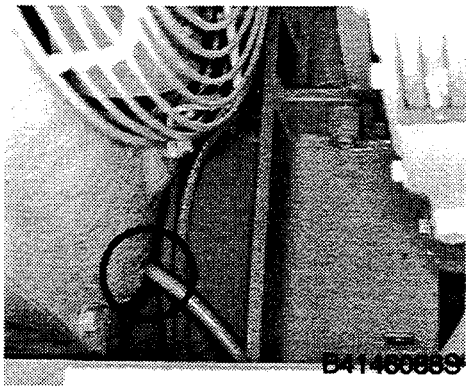
Cleaning the Cooling System

Hot coolant can spray out if radiator cap is removed. To remove radiator cap:
Let system cool, turn to first notch, then wait until all pressure is released.
Scalding can result from fast removal of radiator cap.
Check and service coolant system according to maintenance instructions.
SA023

Drain, flush, and replace the engine coolant every 2000 hours of operation or each year, whichever occurs first. Clean the system and replace the coolant if the coolant becomes dirty or has the color of rust.

DO NOT remove the radiator cap if the coolant is hot.

1. Open the radiator drain valve and remove the radiator cap.



2. After all coolant is removed, close the drain valves.

3. Add cleaning solution to the cooling system and fill the cooling system with clean water. Follow the directions included with the cleaning solution.

4. After you drain the cleaning solution, flush with clean water and drain the water.

5. Replace the cooling system filter.

6. Put one container (1 pint) of 331-509 cooling system additive into the radiator.

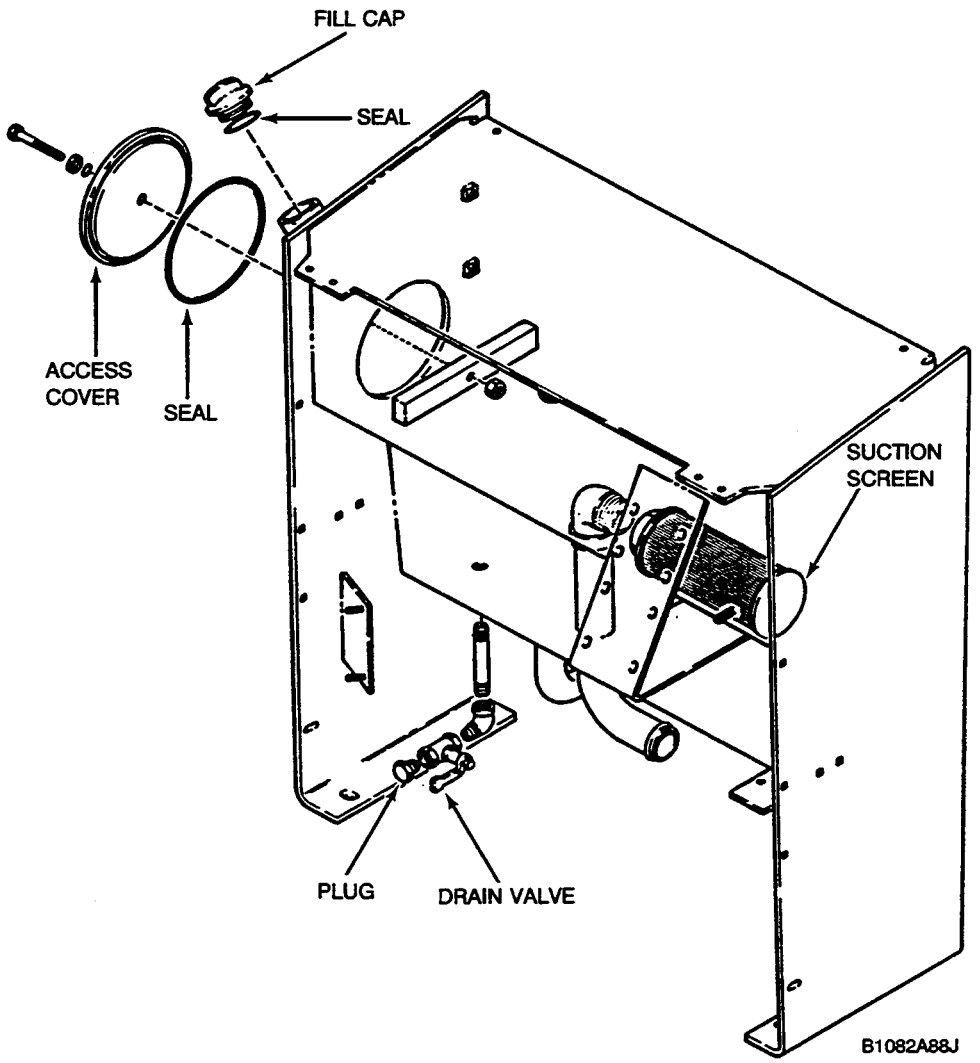
7. Put a 50% mixture of ethylene glycol and water in the radiator. See page 107.

8. Start the engine and run at idle speed for a few minutes. Stop the engine and fill the radiator to the top.

9. Install the radiator cap.

10. Put the same mixture into the coolant reservoir. Fill up to the FULL mark.

Hydraulic Oil Change



Every 2000 hours of operation or one time each year, whichever occurs first (1) change the hydraulic oil, (2) replace both hydraulic oil filters, and (3) clean the suction screen.

1. Make sure the hydraulic oil is at operating temperature.

2. Lower the loader bucket to the ground and stop the engine. Put a Do Not Operate tag on the steering wheel.

3. Clean the area around the fill cap and access cover. Slowly remove the fill cap of the reservoir. This will remove the air pressure from the reservoir.

CAB AIR FILTER

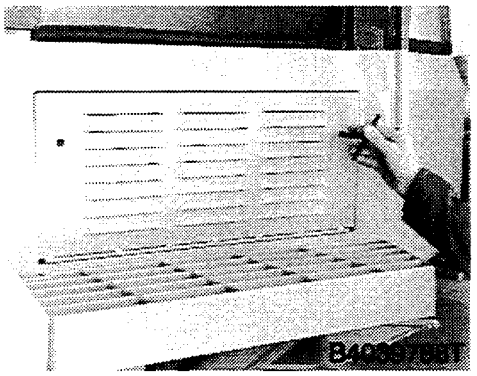
Clean or replace the cab air filters every 250 hours of operation or if the air flow in the cab is reduced.

NOTE: *If your machine is new, make sure the plastic cover is removed from the filters.*

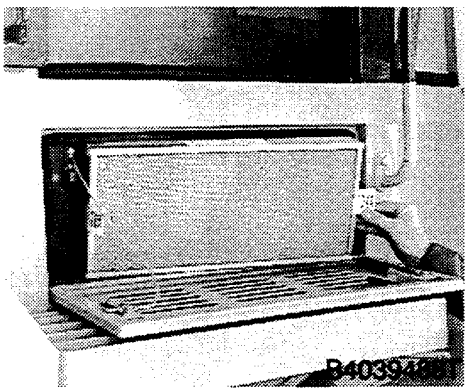
Removal and Installation

1. Use the special T wrench and open the access door.

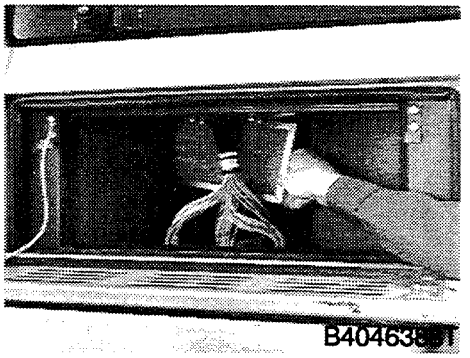
NOTE: *A large screwdriver can be used as an alternate tool.*



2. Pull out the large air filter.



3. Disconnect and remove the small filter.



4. Install cleaned or new filters.

IMPORTANT: *Make sure that the arrows on the small filter point away from the cab and the arrows on the large filter point toward the cab.*

5. Close the access door.

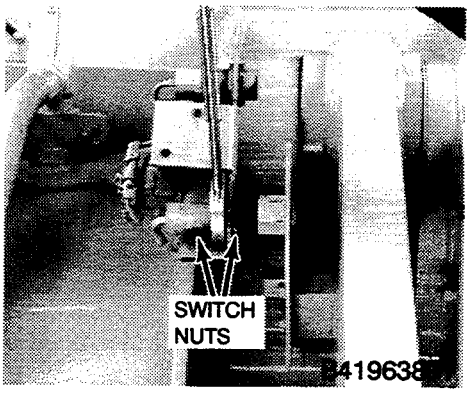
Cleaning the Filter

Check the dirty element for damage and check the rubber seal on the end. Push the rubber seal with your finger. If the rubber feels hard and does not move back to original shape, discard the element.

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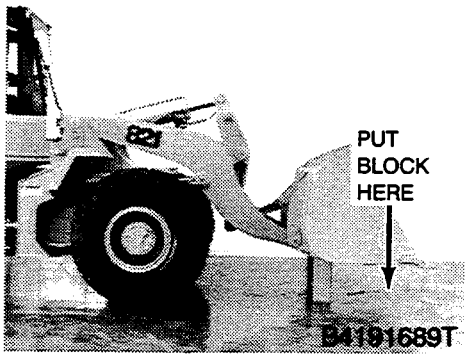
7. To adjust the switch:

   a. Loosen and turn the two switch nuts to adjust the switch.



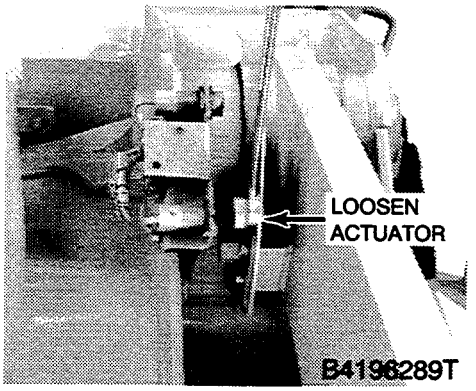
   b. Tighten the two nuts.

8. Start the engine and lower the loader bucket to the carry position - loader bucket about 2 feet (610 mm) above the ground. Put a block under the bucket.

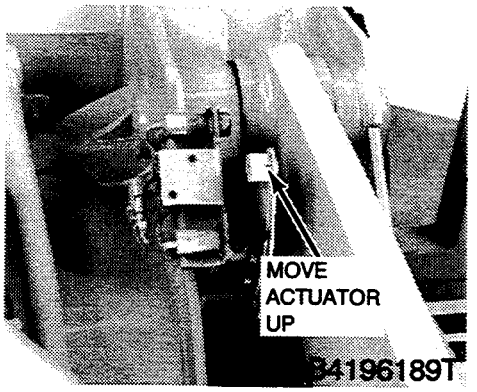


9. Stop the engine.

10. Loosen the actuator.



11. Move the actuator completely up in the slot. Hand tighten the actuator.



12. Turn the key switch to ON but do not start the engine.

13. Push down the left side of the RET TRAVEL function switch.

14. Move the lift arm control from HOLD to RAISE several times to release all pressure in the accumulator.

15. Move the lift arm control to the FLOAT position. The control lever will remain in this position and the loader will not move.

BATTERIES

Battery Safety

Before you service a battery, always wear face protection, protective gloves, and protective clothing. Battery acid or battery explosion can cause serious injuries. SA046

Battery acid causes severe burns. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote - EXTERNAL: flush with water. INTERNAL: drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately. EYES: flush with water for 15 minutes and get prompt medical attention. SA032

When the battery electrolyte is frozen, the battery can explode if, (1) you try to charge the battery, or (2) you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured. SA033

Sparks or flame can cause hydrogen gas in a battery to explode. To prevent an explosion, do the following:
1. When you disconnect the battery cables, always disconnect the negative (1) battery cable first.
2. When you connect the battery cables, always connect the negative (−) battery cable last.
3. Do not short circuit the battery posts with metal items.
4. Do not weld, grind, or smoke near a battery. SA034

Battery Service

NOTE: *The electrical system in this machine is 24 volts. Each battery is 12 volts.*

Before you service components of the electrical system, always disconnect the negative (−) battery cable.

Do not run the engine with the battery cables disconnected or with the alternator wires disconnected.

Before you use an electric welder, disconnect the alternator wires, instrument cluster, and turn the master disconnect switch to OFF.

Do not use a steam cleaner or cleaning solvent to clean the alternator.

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