

## RADIATOR

### Removal

**NOTE:** Put caps on all fittings and plugs in all disconnected hoses.

#### STEP 1

Park the machine on a level surface. Remove the bucket or attachment from the loader arms. Raise the loader arms and lock the loader arms into the raised position.

#### STEP 2

Turn the ignition switch and the master disconnect switch (if equipped) to the OFF position.

#### STEP 3

Disconnect the negative battery cable from the battery.

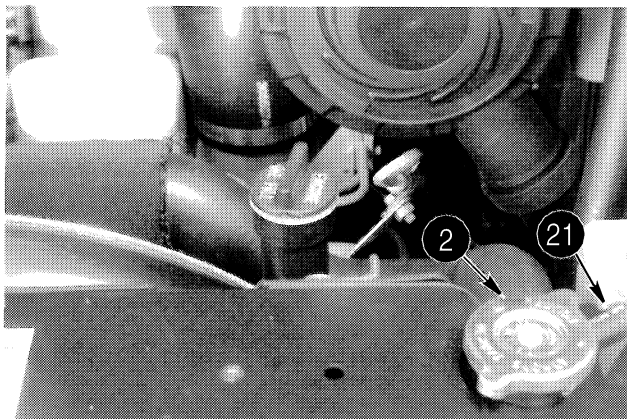
#### STEP 4

Tilt the cab forward.

#### STEP 5

Open the rear access door on the machine and open the hood.

#### STEP 6

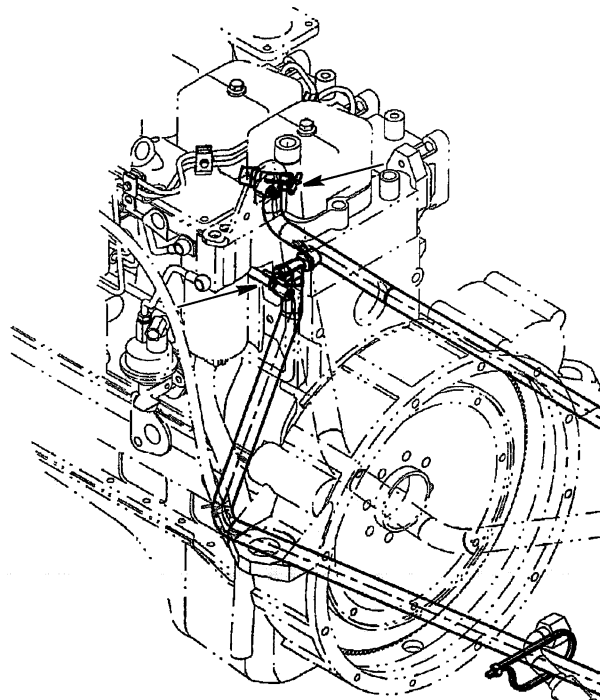


BD01C113

Slowly loosen the radiator cap (2). Disconnect the overflow hose (21) from the radiator neck.

**NOTE:** Refer to illustration on page 11.

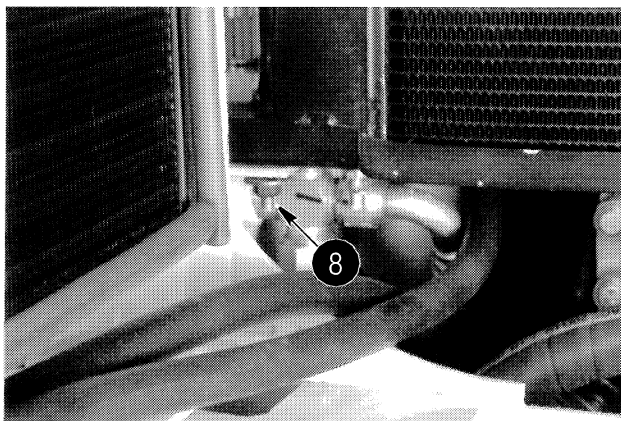
#### STEP 7



BS01F166

If equipped with a heater, open the heater coolant valves on the engine.

#### STEP 8



BD01C133

Install a hose on the drain valve (8) and drain the radiator (1) into a clean container that holds approximately 17 litres (4.5 gallons).

**NOTE:** Refer to illustration on page 11.

#### STEP 9

If equipped with a heater, close the heater coolant valves on the engine.

### STEP 10

Loosen the clamps (4) on the lower radiator hose (5) and clamps (3) on the upper radiator hose (6).

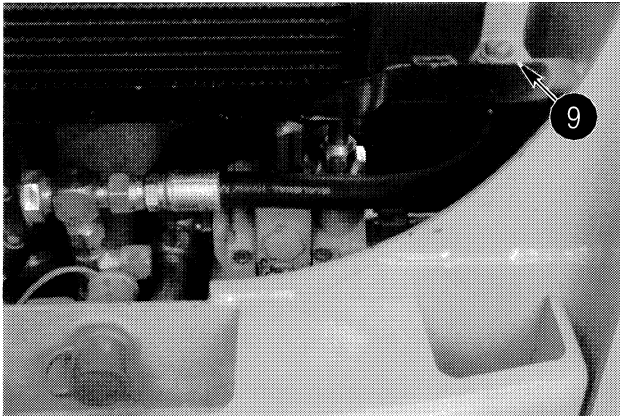
**NOTE:** Refer to illustration on page 11.

### STEP 11

Remove the two bolts (25) and washers (26) that fasten the fan guard (24) to the radiator (1). Remove the fan guard.

**NOTE:** During assembly torque the bolts (25) 15 to 20 Nm (120 to 180 pound-inches).

### STEP 12

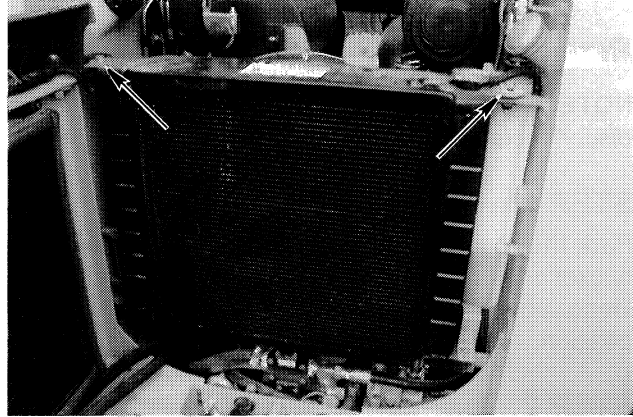


BD01J076

Loosen and remove the bolts (9), washers (10, 11, and 13), and mounts (12) that fasten the bottom of the radiator (1) to the frame.

**NOTE:** During assembly torque the bolt (9) 30 to 36 Nm (265 to 319 pound-inches).

### STEP 13



BD01J077

Loosen and remove the bolts (15), washers (16, 17, and 19), mounts (18), and nuts (20) that fasten the right side and left side of the radiator (1) to the frame.

**NOTE:** During assembly torque the bolts (15) 30 to 36 Nm (265 to 319 pound-inches).

### STEP 14

Move the radiator (1) away from the upper radiator hose (6) and lower radiator hose (5). Remove the radiator (1) from the machine.

### STEP 15

Remove the over flow bottle (23) and bracket (22).

## Installation

### STEP 16

Installation of the radiator is the revers of removal.

# ENGINE

## Removal

### STEP 1

Remove the radiator from the machine.

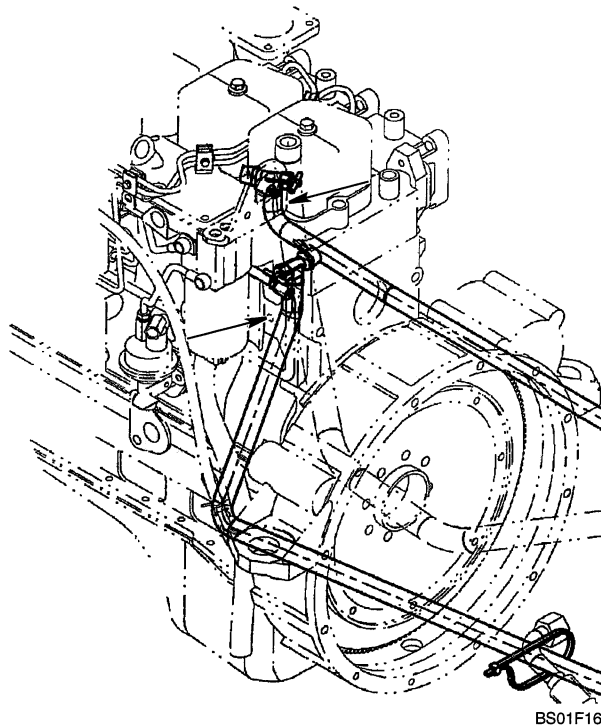
### STEP 2

Install plugs and caps on all disconnected hoses and fittings.

### STEP 3

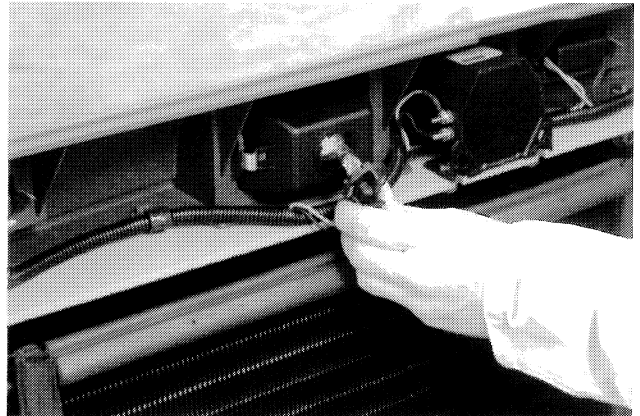
Tag all electrical connection for identification during assembly.

### STEP 4



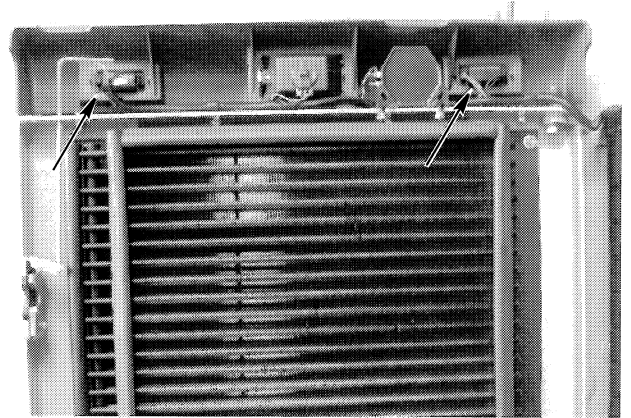
If equipped with a heater, disconnect the heater hoses.

### STEP 5



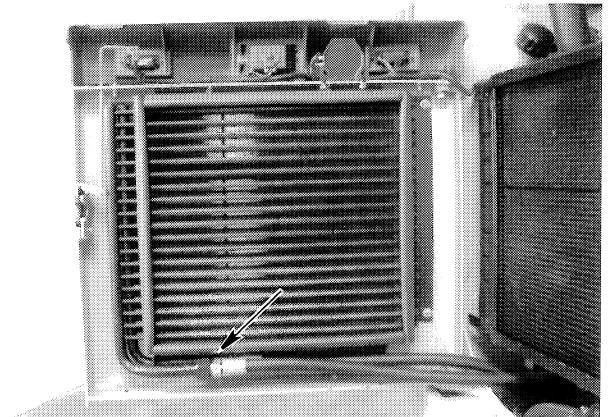
Remove the rear work lamp from the rear access door.

### STEP 6



Disconnect the electrical connectors from the rear tail lamps on both sides of the rear access door. Put the electrical harness and rear work lamp out of the way.

### STEP 7



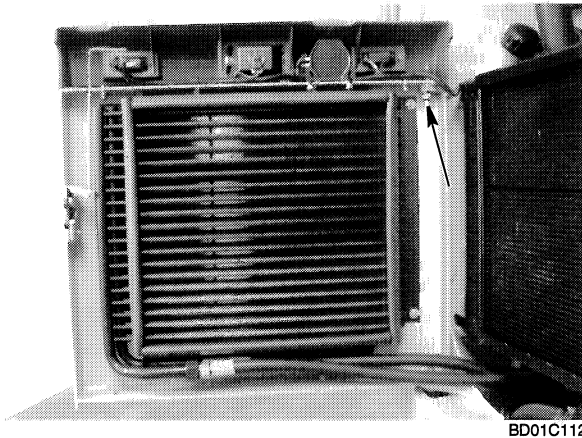
Tag and disconnect the hoses from the oil cooler on the rear access door.

2000-6

### STEP 8

Connect acceptable lifting equipment to the rear access door.

### STEP 9



Loosen and remove the nut, spacer, bolt, and washer from the door.

### STEP 10

Remove the door from the machine.

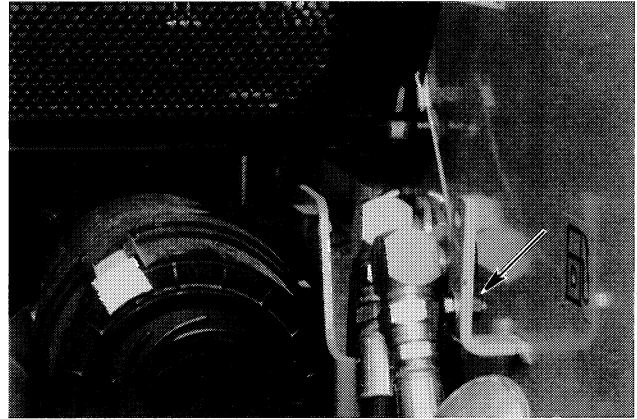
### STEP 11



1. CYLINDER PIVOT BOLT

Remove the nut from cylinder pivot bolt (1) on the hood end of the cylinder.

### STEP 12

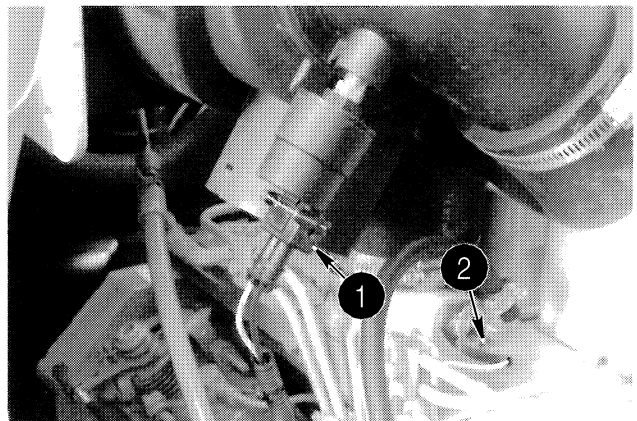


Remove the bolt, washer, and nut from the hood catch cable.

### STEP 13

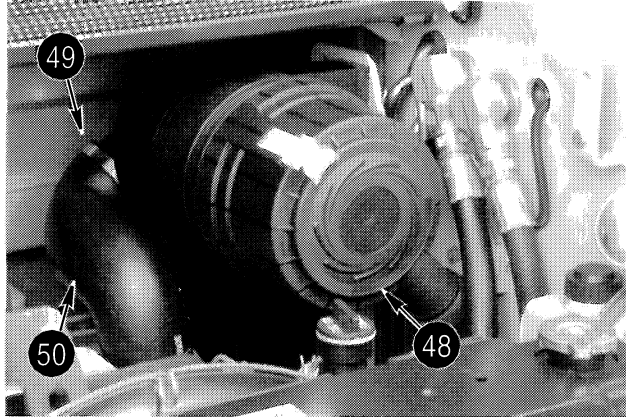
Push the hood to the right hand side of the machine and remove the left hand side of the hood from the pivot pin. Remove the hood from the machine.

### STEP 14



1. AIR RESTRICTION INDICATOR SWITCH
2. STARTING AID

Disconnect the electrical connector for the air restriction indicator switch (1) and starting aid switch (2).

**STEP 15**

BD01C130

Loosen the clamps (49) on the intake manifold hose (50). Remove the hose from the intake and air filter assembly (48).

**NOTE:** Torque clamps (49) 3 to 4 Nm (25 to 35 pound-inches) during assembly.

**NOTE:** Refer to illustration on page 12.

**STEP 16**

Loosen and remove the bolts (53), washers (54 and 55), and nuts (56) from the air filter housing clamp (52).

**STEP 17**

Remove the air cleaner (48) and housing clamp (52) from the machine.

**STEP 18**

Loosen and remove the bolts (70) and washers (71) that fasten the muffler (60) to the exhaust manifold.

**NOTE:** Torque the bolts (70) 51 to 61 Nm (38 to 45 pound-feet) during assembly.

**NOTE:** Refer to illustration on page 13.

**STEP 19**

Remove the bolts (62) and washers (63) that fasten the bracket (61) to the machine.

**NOTE:** Torque bolts (62) 23 to 26 Nm (204 to 228 pound-inches) during assembly.

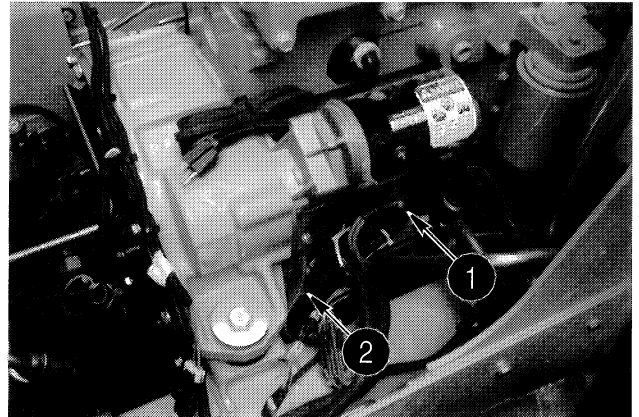
**STEP 20**

Remove the muffler from the machine (60).

**STEP 21**

Remove the bolts (27), washers (28), fan blade (29), and spacer (30) from the engine (38).

**NOTE:** Refer to illustration on page 11.

**STEP 22**

BD01C180

1. STARTER WIRES
2. GROUND STRAP

Disconnect the wires (1) from the starter solenoid.

**STEP 23**

Loosen and remove the starter mounting bolt and washer that holds the ground strap (2). Remove the ground strap from the bolt. Install the washer and starter mounting bolt.

**STEP 24**

Remove the bolt and wire harness clamp from the LH side of the engine.

**STEP 25**

Find the ground wires on the left hand side of the engine. Loosen and remove the bolts that fastens the ground wires to the engine. Keep all ground wires together.

**STEP 26**

BD01K21

Disconnect the wires from the alternator.

**Thank you very much for your reading. Please Click Here. Then Get COMPLETE MANUAL. NO WAITING**



**NOTE:**

**If there is no response to click on the link above, please download the PDF document first and then click on it.**