

# 570MXT Loader Landscaper

## Service Manual

6-43571

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Reprinted

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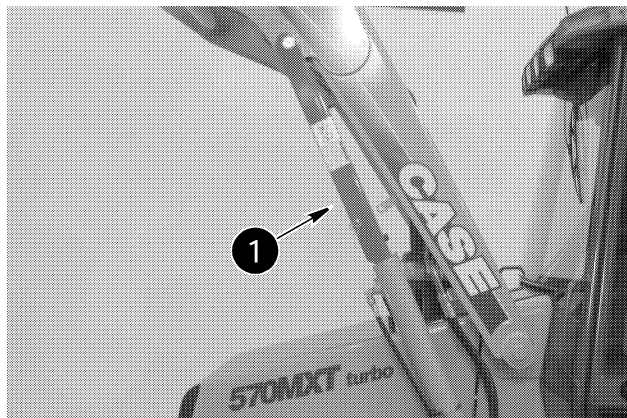
**NOTE:** Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

## RADIATOR REMOVAL

Put identification tags on all disconnected hoses and wires. Close disconnected hoses and fittings with caps and plugs.

**NOTE:** *The photos in this procedure may be different from your machine and are for reference only.*

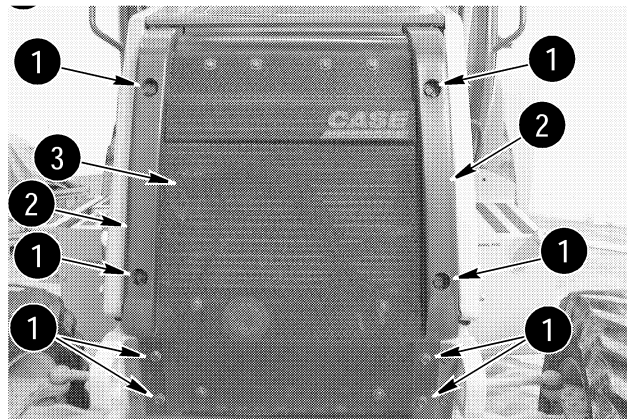
### STEP 1



BD01D042

Park the machine on a level surface. Raise the loader and lock the support strut (1) to hold the loader. Stop the engine and apply the parking brake.

### STEP 2



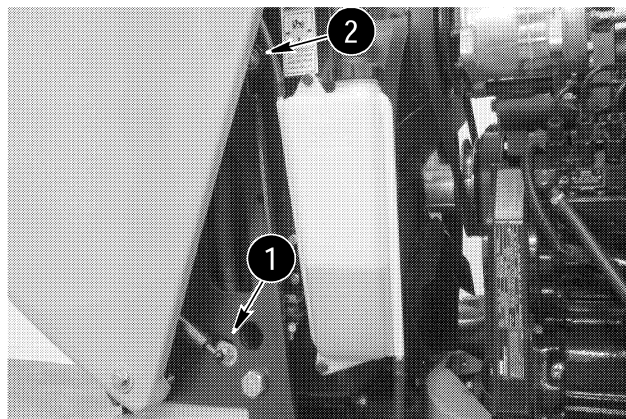
BD01B356

Remove the bolts (1), bumpers (2), and the grille (3) from the front of the machine.

### STEP 3

Open the hood. Connect acceptable lifting equipment to the hood.

### STEP 4

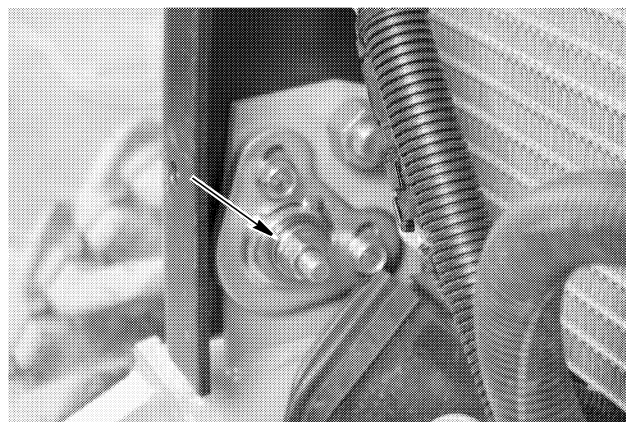


BD01D045

Do the following procedure to remove the hood.

- A. Remove the retainers from the hood struts (1) and disconnect the hood struts from the stud.
- B. Disconnect the hood cable (2) from the radiator shroud.
- C. Carefully lower the hood back to the closed position.

### STEP 5



BD01B311

Remove the bolts, washers, and nuts from the pivot point on the hood.

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Hello dear friend!

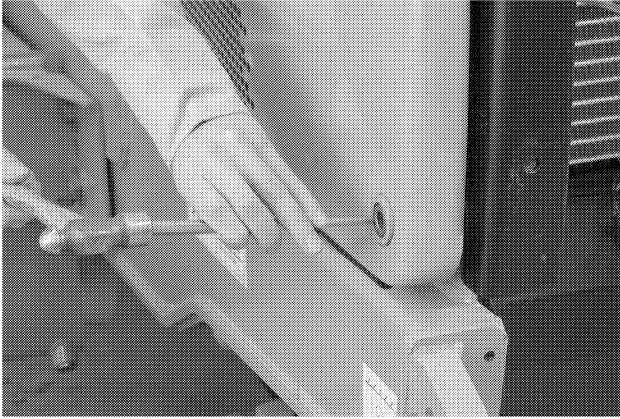
Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

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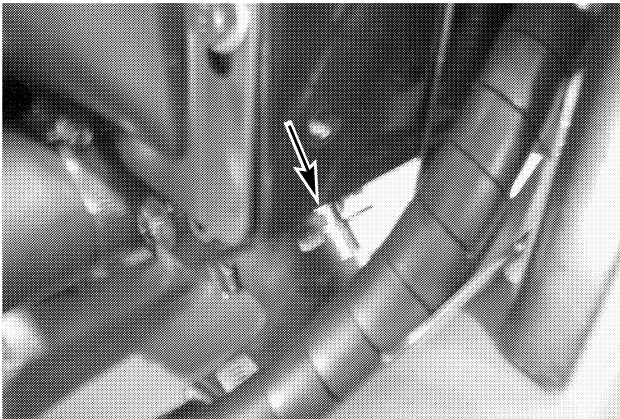
### STEP 6



BD01B311

Drive the pivot tubes out of the hood pivot point. Remove the hood from the machine.

### STEP 7

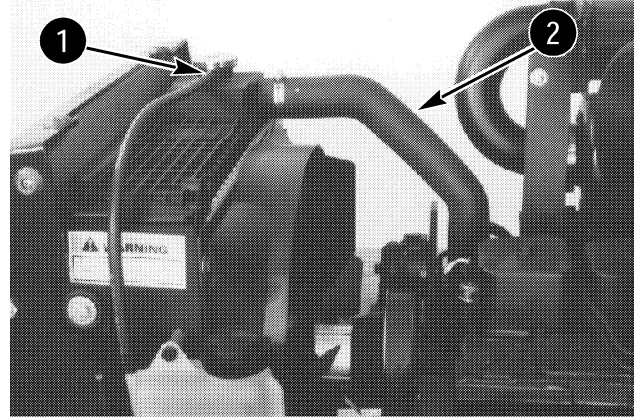


BD01B322

Slowly remove the radiator cap. Install a hose on the drain valve and drain the radiator into a clean container that holds approximately 17 litres (18 U.S. quarts).

**NOTE:** During installation, fill the radiator and coolant reservoir completely. See Section 1002 for coolant specifications. Start and run the engine until the coolant is at operating temperature. Stop the engine and check for leakage. When the coolant is cold, check the coolant reservoir level. Add coolant as required.

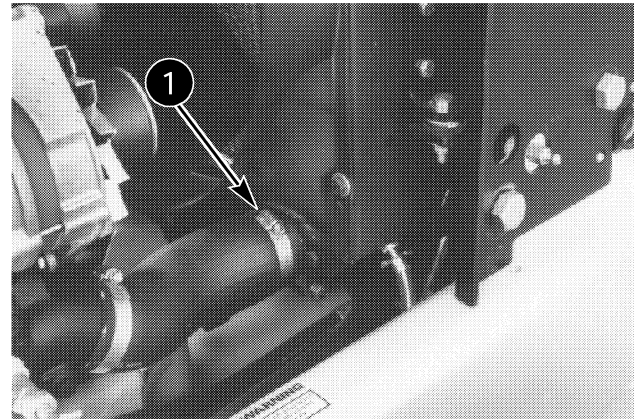
### STEP 8



BP9502292

Disconnect the overflow hose (1) from the radiator neck. Loosen the clamp and disconnect the upper radiator hose (2).

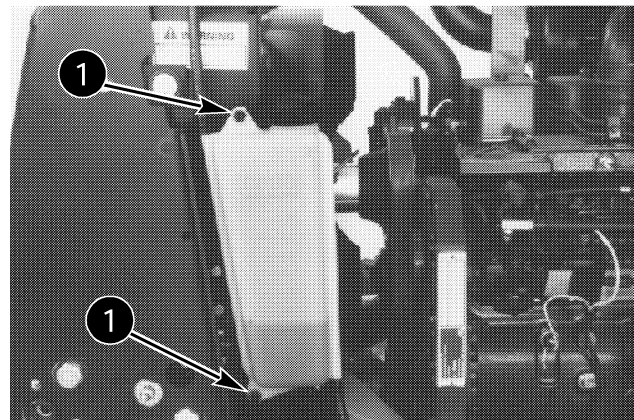
### STEP 9



BP9502290

Loosen the clamp (1) and disconnect the lower radiator hose.

### STEP 10

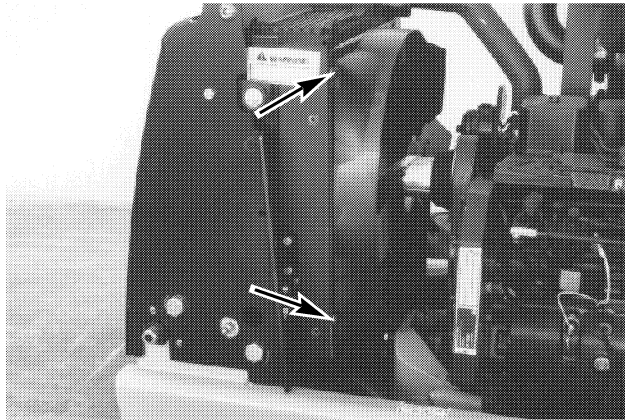


BP9502291

Remove the bolts (1), spacers, washers, and coolant reservoir from the machine.

**NOTE:** During installation tighten the bolts to a torque of 5 to 6 Nm (44 to 53 pound-inches).

**STEP 11**

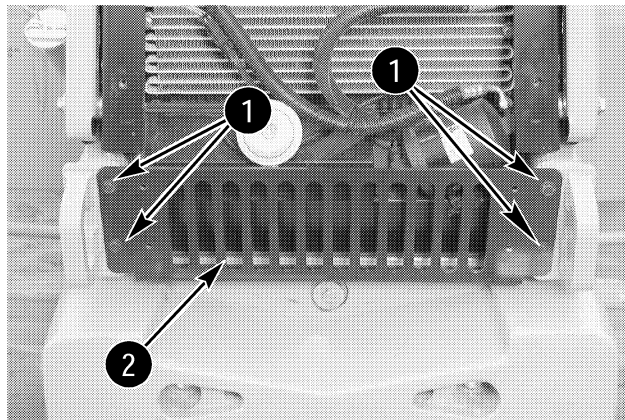


BP9502293

Remove the hardware from the fan shroud. Move the fan shroud away from the radiator.

**NOTE:** During installation tighten the bolts to a torque of 26 to 31 Nm (19 to 23 pound-feet).

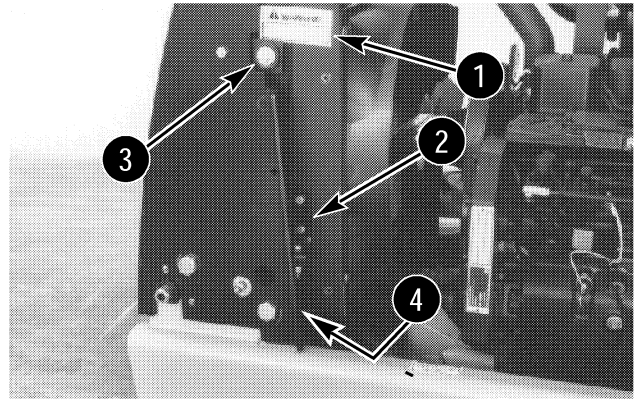
**STEP 12**



BD01B309

Remove the bolts (1) and pump guard (2) from the machine.

**STEP 13**



BP9502293

Use a sharp knife and cut the warning decal (1). Remove the bolts that fasten the lower brackets (2) to the radiator. Remove the hardware and the lower brackets (2) from the radiator shroud. Remove the bolts and flat washers that fasten the upper brackets (3) to the radiator. Remove the bolts and flat washers (4) that fastens the condenser if equipped and oil cooler to the radiator. Lift the radiator straight up and remove the radiator from the machine.

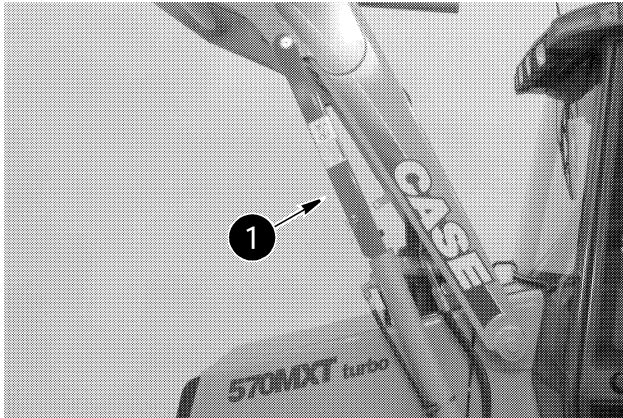
**NOTE:** Installation of the radiator is the reverse of removal.

## ENGINE REMOVAL

Put identification tags on all disconnected hoses and wires. Close disconnected hoses and fittings with caps and plugs.

**NOTE:** *The photos in this procedure may be different from your machine and are for reference only.*

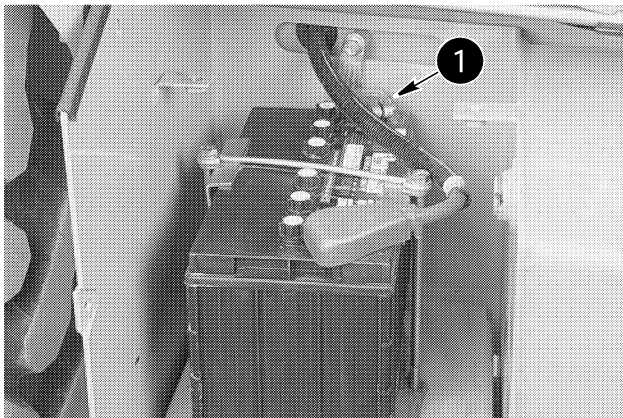
### STEP 1



BD01D042

Park the machine on a level surface. Raise the loader and lock the support strut to hold the loader.

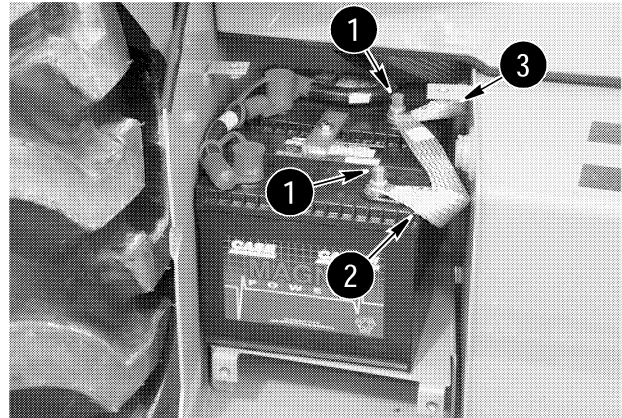
### STEP 2



BD00F122

Remove the battery cover from the right step. If the machine has only one battery, disconnect the negative battery cable from the battery.

### STEP 3



BD00H122

If the machine has two batteries, remove the terminal nuts (1). Remove the jumper cable (2) from the batteries. Remove the negative ground strap (3) from the battery.

### STEP 4

Drain the oil from the hydraulic reservoir.

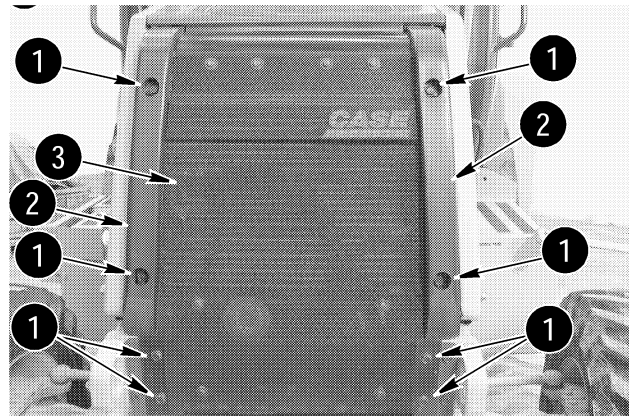
**NOTE:** *During installation fill the hydraulic reservoir with the oil specified in section 1002 of this manual.*

### STEP 5

If the machine is equipped with air conditioning. See Section 9004 and recover the coolant from the air conditioning system.

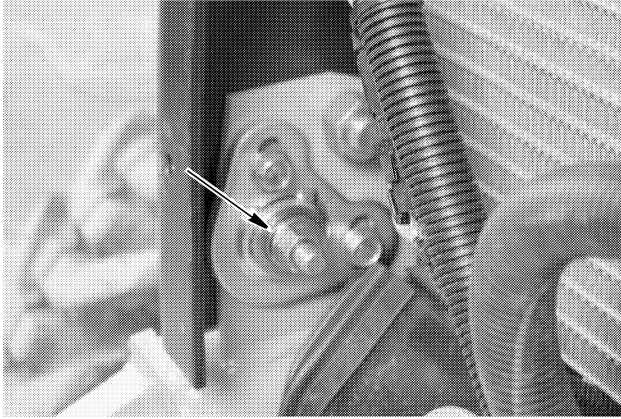
**NOTE:** *During installation see Section 9004 and recharge the air conditioning system.*

### STEP 6



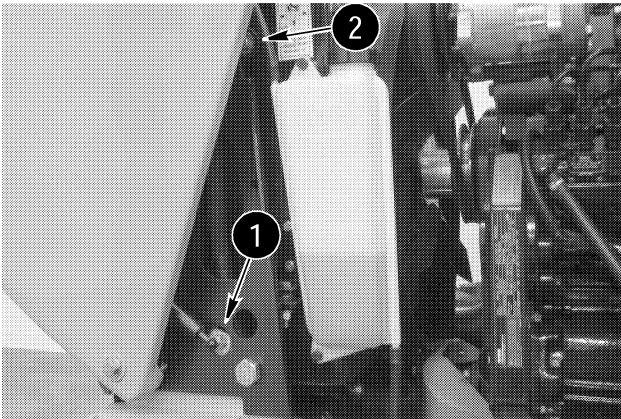
BD01B356

Remove the bolts (1), bumpers (2), and the grille (3) from the front of the machine.

**STEP 7**

BD01B311

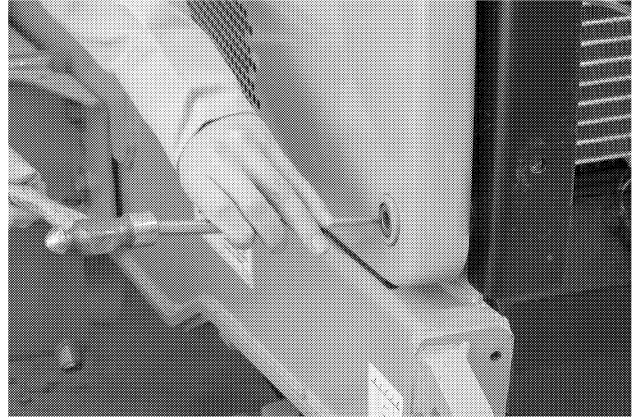
Remove the bolts, washers, and nuts from the pivot point on the hood.

**STEP 8**

BD01B357

Do the following procedure to remove the hood.

- D. Remove the retainers from the hood struts (1) and disconnect the hood struts from the stud.
- E. Disconnect the hood cable (2) from the radiator shroud.
- F. Carefully lower the hood back to the closed position.

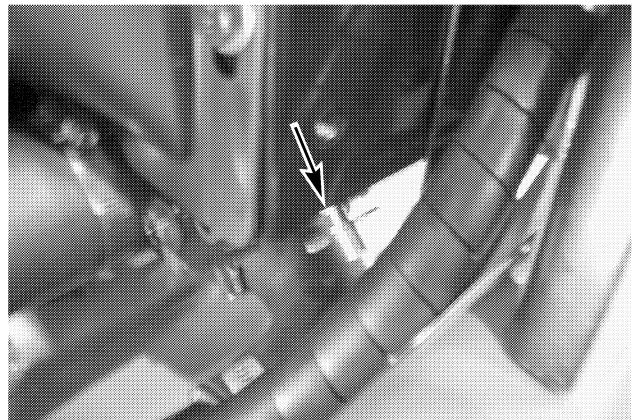
**STEP 9**

BD01B311

Drive the pivot tubes out of the hood pivot point.

**STEP 10**

Use acceptable lifting equipment and remove the hood from the machine.

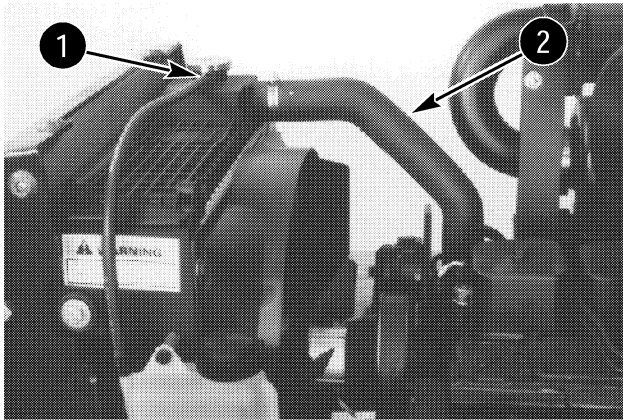
**STEP 11**

BD01B322

Slowly remove the radiator cap. Install a hose on the drain valve and drain the radiator into a clean container that holds approximately 17 litres (18 U.S. quarts).

**NOTE:** During installation, fill the radiator and coolant reservoir completely with coolant. See Section 1002 for coolant specifications. Start and run the engine until the coolant is at operating temperature. Stop the engine and check for leakage. When the coolant is cold, check the coolant reservoir level. Add coolant as required.

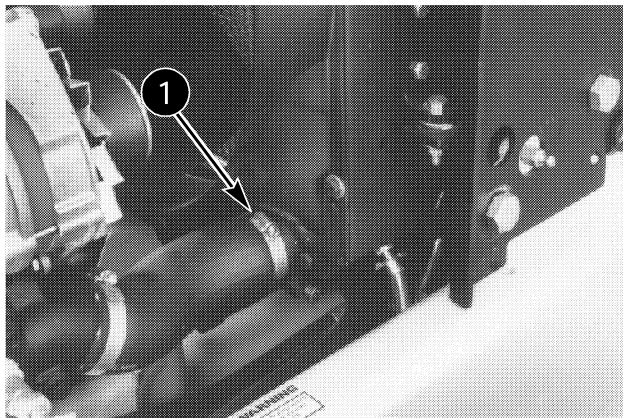
### STEP 12



BP9502292

Disconnect the overflow hose (1) from the radiator neck. Loosen the clamp and disconnect the upper radiator hose (2).

### STEP 13

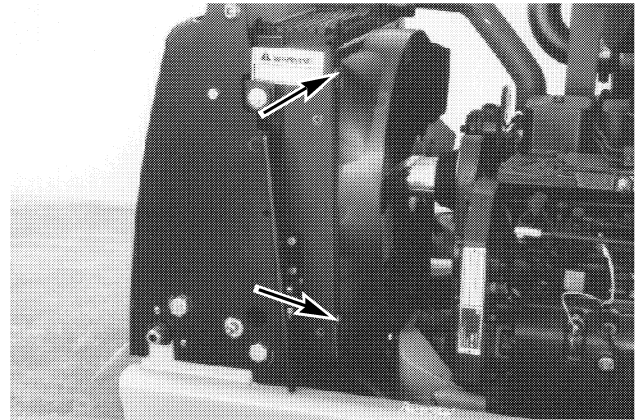


BP9502290

Loosen the clamp (1) and disconnect the lower radiator hose.

**NOTE:** The following photo shows the coolant reservoir removed from the machine. It is not necessary to remove the coolant reservoir from the machine.

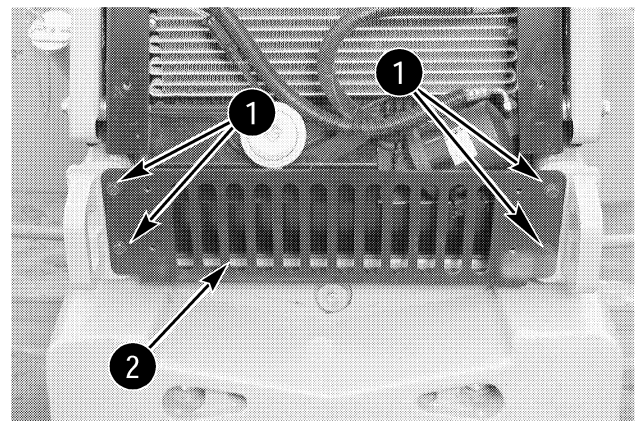
### STEP 14



BP9502293

Remove the hardware from the fan shroud. Move the fan shroud away from the radiator.

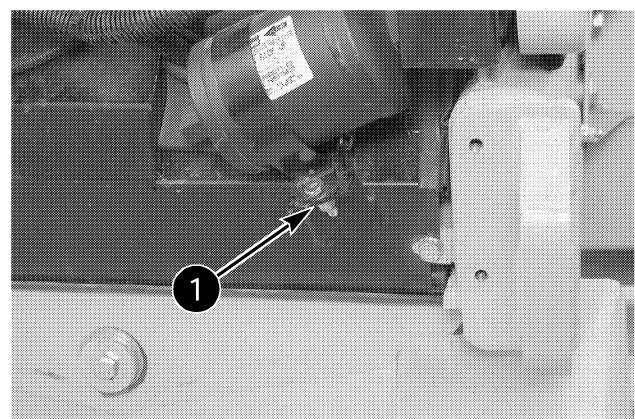
### STEP 15



BD01B309

Remove the bolts (1) and pump guard (2) from the machine.

### STEP 16

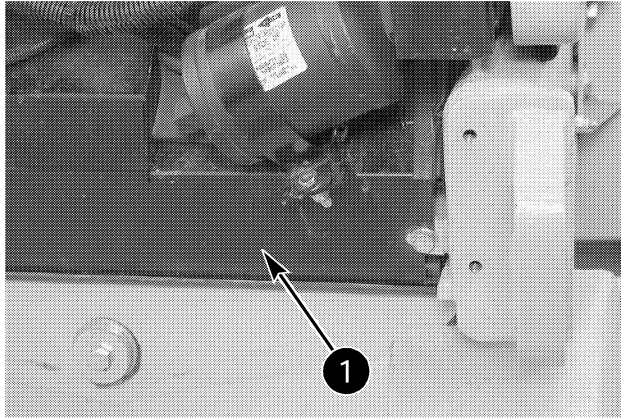


BD01B310

If the machine is equipped with air conditioning. Remove the self-locking nut and clamp from the drier.

**NOTE:** During installation tighten the self-locking nut to a torque of 26 to 31 Nm (19 to 23 pound-feet).

**STEP 17**



Disconnect the wires from the horn on the baffle plate (1). Loosen and remove the hardware that fastens the baffle plate (1) to the front of the machine. Remove the baffle plate (1) from the machine.

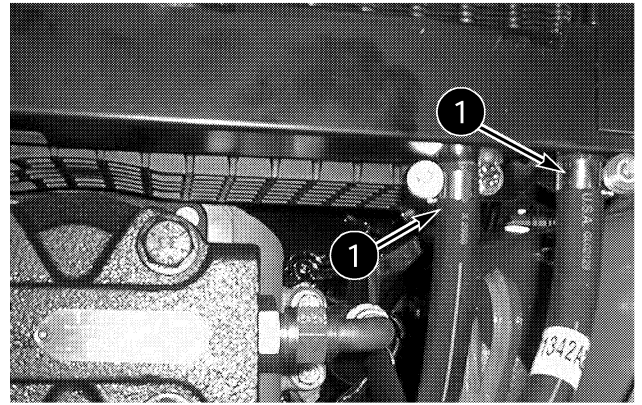
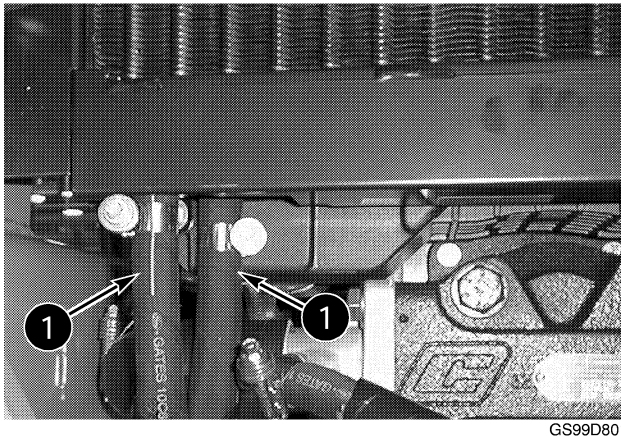
**STEP 18**

If the machine is equipped with air conditioning. Disconnect the electrical connector for the drier. Disconnect the hoses from the drier. Remove the drier from the machine.

**STEP 19**

If your machine is equipped with air conditioning disconnect the electrical connector for the high pressure cut-out switch.

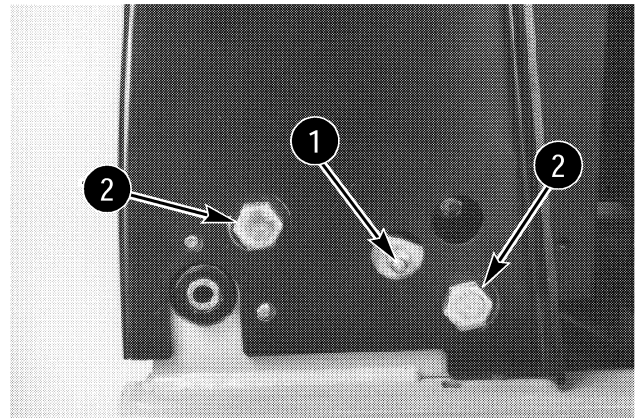
**STEP 20**



1. OIL COOLER HOSES

Disconnect the hoses from both sides of the hydraulic oil cooler. Identify each hose with its location of removal. Cap the fittings and plug the hoses.

**STEP 21**



Remove the studs (1). Remove the bolts (2) and nuts that fasten the radiator shroud to the frame.

**NOTE:** During installation tighten the studs (1) to a torque of 52 to 61 Nm (38 to 45 pound-feet). Tighten the bolts (2) to a torque of 434 to 515 Nm (320 to 380 pound-feet).

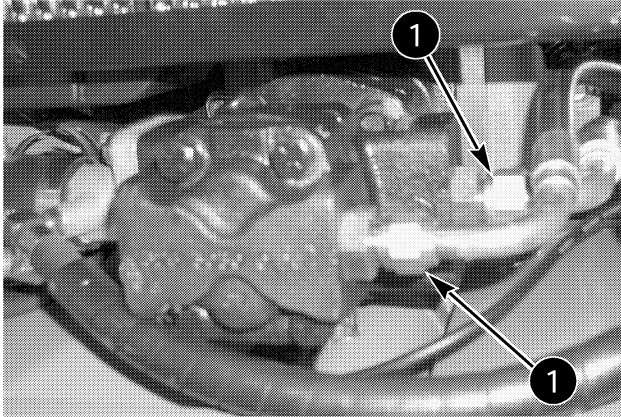
**STEP 22**

Remove the radiator shroud, radiator, oil coolers and if equipped with air conditioning the condenser as an assembly.

**STEP 23**

Remove the fan shroud from the fan.

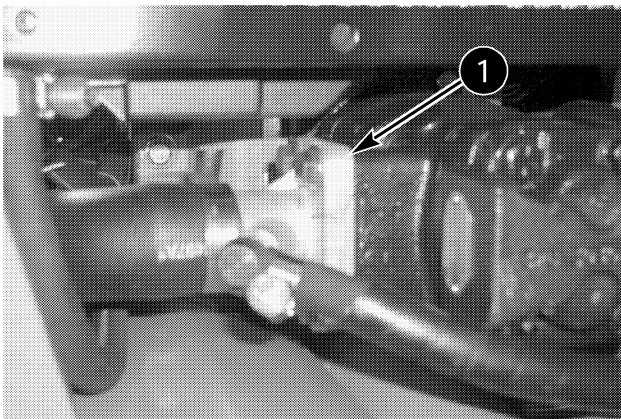
### STEP 24



BD01B314

Disconnect the hoses (1) from the LH side of the pump.

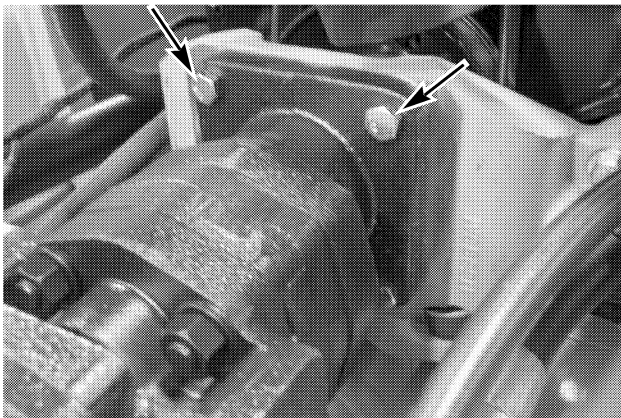
### STEP 25



BD01B315

Remove the bolts and lock washers that fasten the fitting (1) on the RH side of the pump.

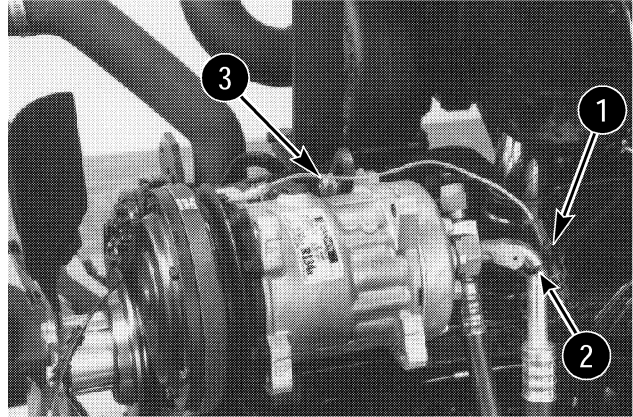
### STEP 26



BD01B328

Loosen and remove the bolts that fasten the equipment pump to the pump mounting bracket. Remove the equipment pump from the machine.

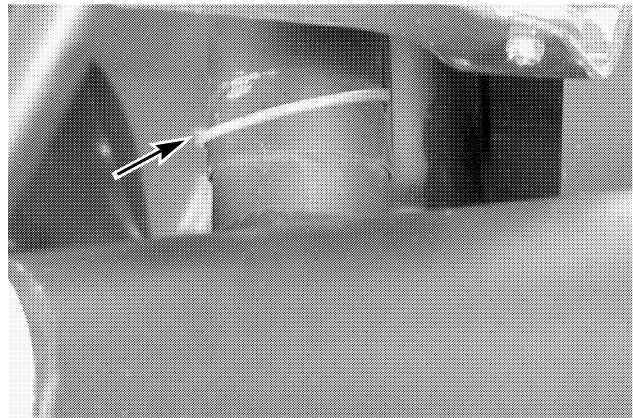
### STEP 27



BP9503116

If the machine is equipped with air conditioning, disconnect the electrical connector (1). Remove the tie strap (2). Disconnect the hoses from the compressor.

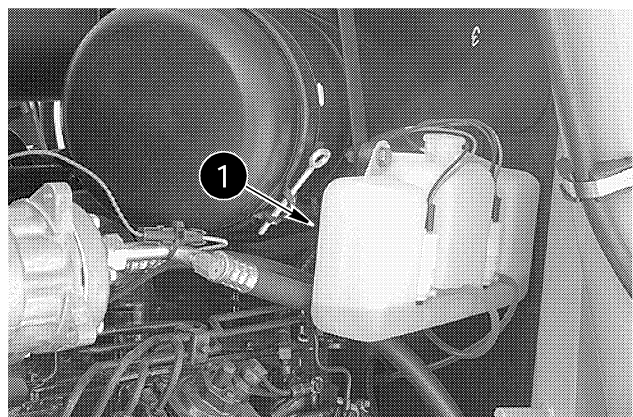
### STEP 28



BD01B306

Loosen the clip for the exhaust pipe at the muffler. Remove the exhaust pipe from the muffler.

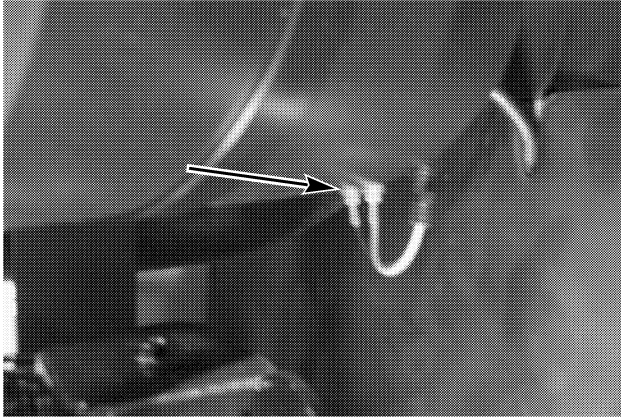
### STEP 29



BK97K213

Remove the windshield washer reservoir (1).

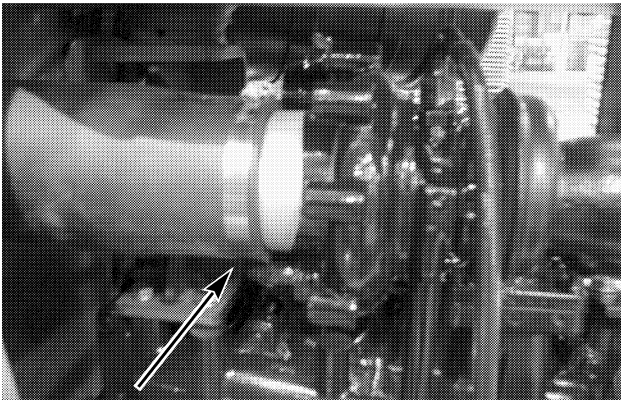
**STEP 30**



BD01B324

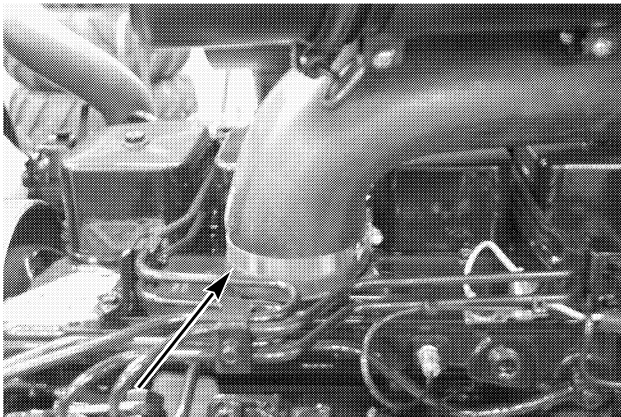
Remove the tie strap. Disconnect the electrical connectors for the air restriction indicator.

**STEP 31**



BD01B323

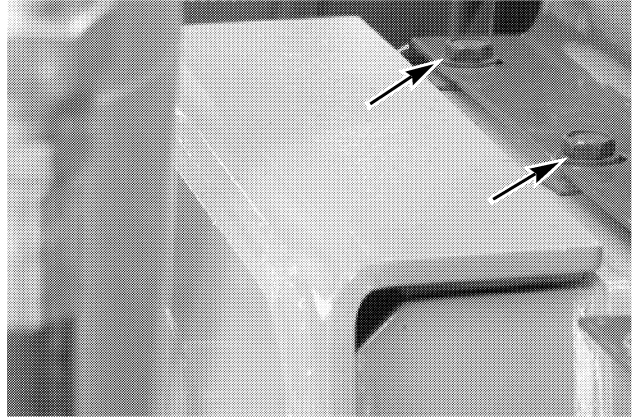
If the machine is equipped with turbocharger, loosen the clamp on the air cleaner hose at the turbocharger. Disconnect the air cleaner hose from the turbocharger.



BD01B366

If the machine is not equipped with turbocharger, loosen the clamp on the air cleaner hose at the intake manifold. Disconnect the air cleaner hose from the intake manifold.

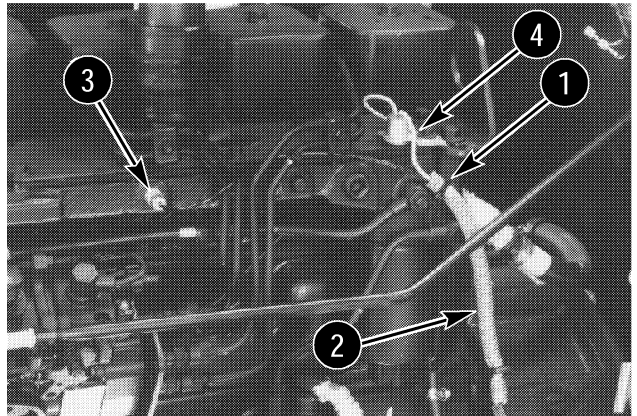
**STEP 32**



BD01B307

Remove the bolts and flat washers that fasten the cover to uprights. Remove the cover and air cleaner as an assembly.

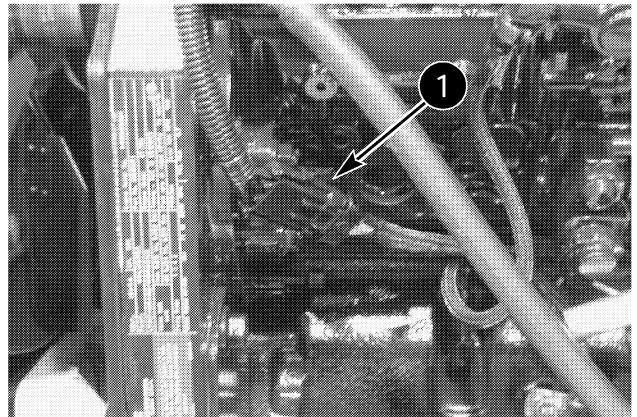
**STEP 33**



BP9502303

If the machine has ether injection, remove the tie straps (1) and sleeve (2) from the tube (3) and wire (4). Disconnect the tube (3) and the wire (4).

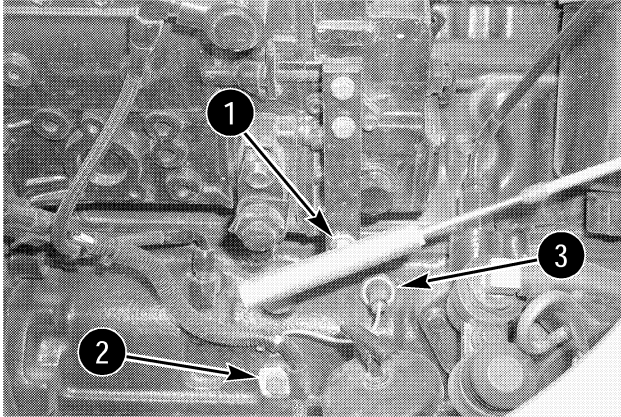
**STEP 34**



BD01B365

Disconnect the electrical connector for the fuel injection pump (1).

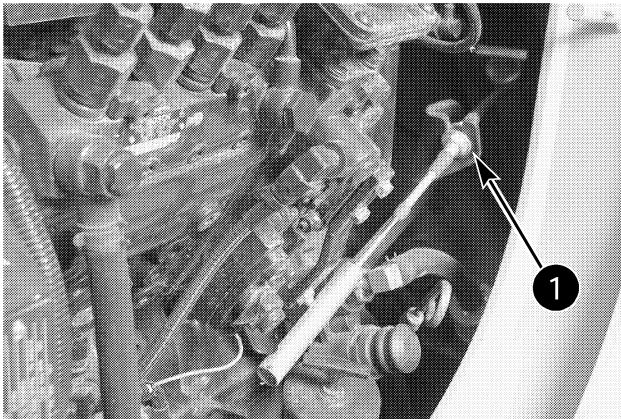
### STEP 35



BD01B375

Disconnect the throttle rod (1). Disconnect the wiring clamp (2). Disconnect the wire from the oil pressure sender (3).

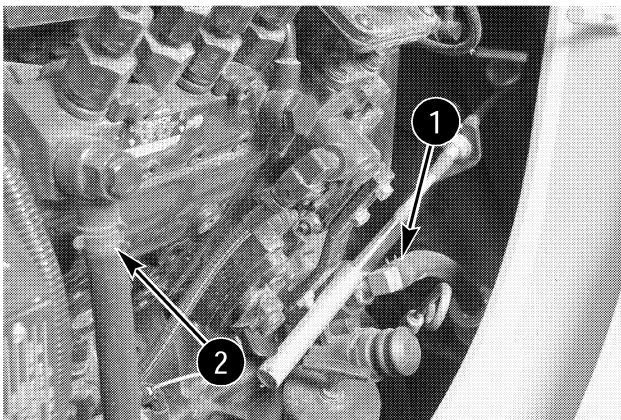
### STEP 36



BD01B377

Disconnect the throttle cable from the mounting bracket (1).

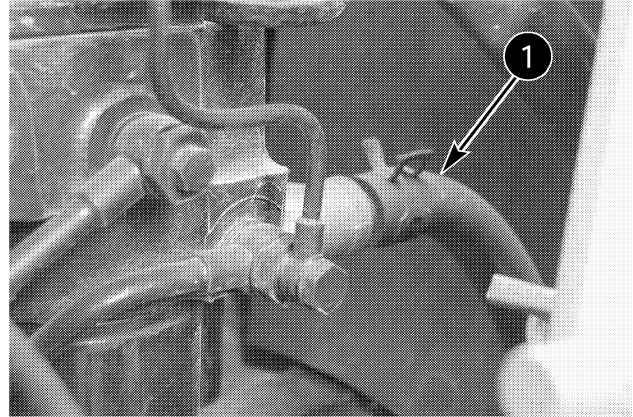
### STEP 37



BD01B377

Disconnect the fuel lines (1) and (2).

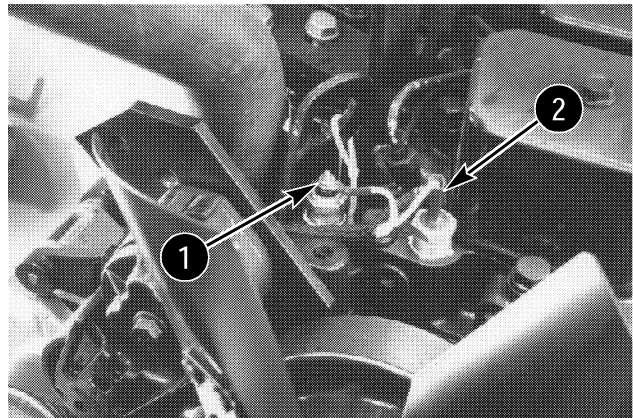
### STEP 38



BD01B378

Disconnect the heater hose (1), if equipped.

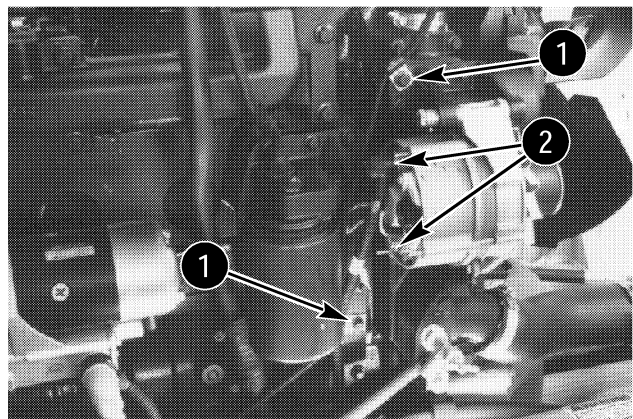
### STEP 39



BP9502298

Disconnect the coolant temperature sender (1) and coolant temperature switch (2).

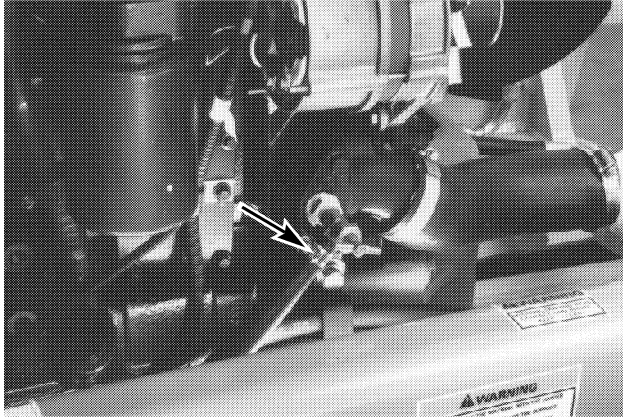
### STEP 40



BP9502296

Remove the harness clamps (1). Disconnect the wires (2) from the alternator.

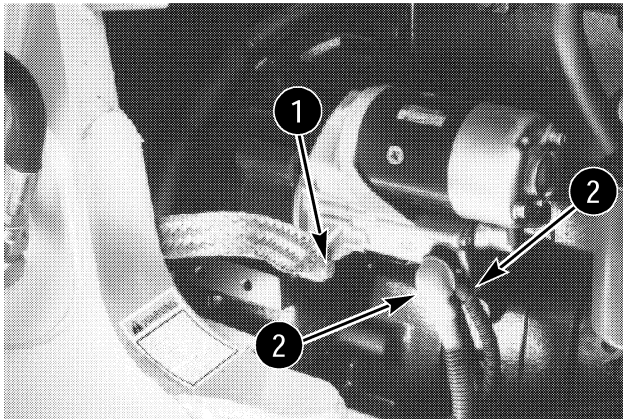
**STEP 41**



BP9502297

Loosen the clamp and disconnect the heater hose, if equipped.

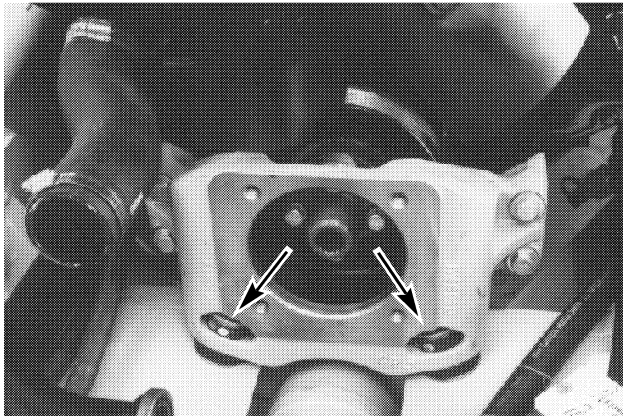
**STEP 42**



BP9502316

Disconnect the ground strap (1). Disconnect the wires (2) from the starter.

**STEP 43**

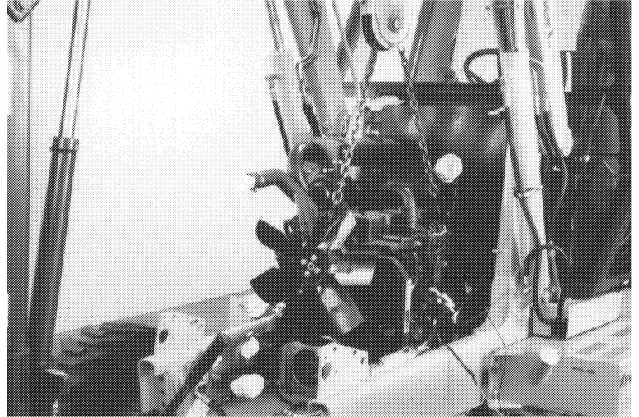


BP9502310

Remove the bolts, flat washers, and nuts from the front engine mount.

**NOTE:** During installation, tighten the self-locking nuts to 70 to 90 Nm (51 to 66 pound-feet). See the illustration on page 19 for correct installation.

**STEP 44**



BP9502305

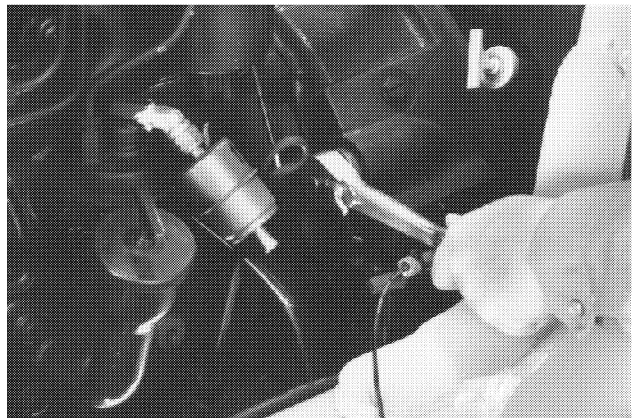
Connect lifting equipment to the lifting eyes on the engine to hold the engine in place.

**NOTE:** For machines with a standard (Carraro) transmission, there are six bolts with lock washers that fasten the flywheel to the torque converter. For machines with a powershift (Clark) transmission, there are eight bolts that fasten the flywheel to the flex plate. The engine must be rotated to align each bolt with the access hole in the flywheel housing at the left side of the engine.

**STEP 45**

Remove the plastic plug from the flywheel housing. Remove the hose from the bracket and remove the cover and gasket from the access hole for the bolts.

**STEP 46**



BP9502299

Install the CAS-1690A tool to turn the flywheel for access to the bolts.



**Suggest:**

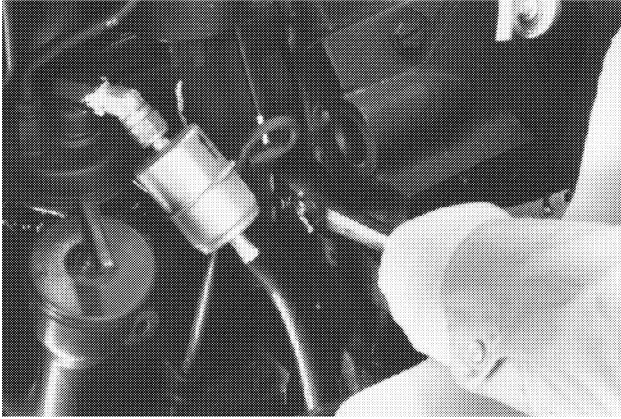
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**STEP 47**

BP9502300

For machines equipped with a standard (Carraro) transmission, loosen and remove all six bolts and lock washers that fasten the flywheel to the torque converter. For machines equipped with a powershift (Clark) transmission, loosen and remove all eight bolts that fasten the flywheel to the flex plate.

**NOTE:** *Be careful during installation when installing the bolts and if equipped lock washers. Tighten the bolts to 52 to 57 Nm (38 to 42 pound-feet) for the standard (Carraro) transmission or the powershift (Clark) transmission.*

**STEP 48**

Loosen and remove the 12 bolts and flat washers that fasten the transmission to the engine. Move the heater hose and clamps out of the way.

**STEP 49**

Move the engine forward and raise the engine. Remove the engine from the machine.

**IMPORTANT:** *For machines with a powershift (Clark) transmission make sure that the flex plate/converter assembly stays in place on the transmission. If the engine will be separated from the transmission for an extended period of time fasten the flex plate/converter assembly in place on the transmission.*

**NOTE:** *Installation of the engine is the reverse of removal.*

**IMPORTANT:** *Before starting the engine do the following.*

1. See section 1002 Fluids and Lubricants in this manual for the correct type and quantities needed to replace lost or drained fluids and lubricants before starting the engine.
2. The turbocharger must be filled with oil. Disconnect the wire from the fuel shutoff solenoid. Actuate the starter for 10 to 20 seconds to fill the turbocharger with oil. Connect the wire to the fuel shutoff solenoid.
3. The hydraulic pump **must** be filled with oil. Do the following procedure to fill the hydraulic pump with oil:
  - A. Fill the hydraulic reservoir Make sure the oil level in the hydraulic reservoir is correct.
  - B. Remove the cap from the hydraulic reservoir.
  - C. Use a nozzle and shop air to pressurize the hydraulic reservoir. Wrap a shop cloth around the end of the hose at the nozzle.

**NOTE:** *34.5 kPa (5 psi) to 69.0 kPa (10 psi) is all that is required to move the oil. Pressure above 69.0 kPa (10 psi) can damage the hydraulic reservoir.*

- D. Have another person start and run the engine at low idle while shop air is being applied to the hydraulic reservoir.

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