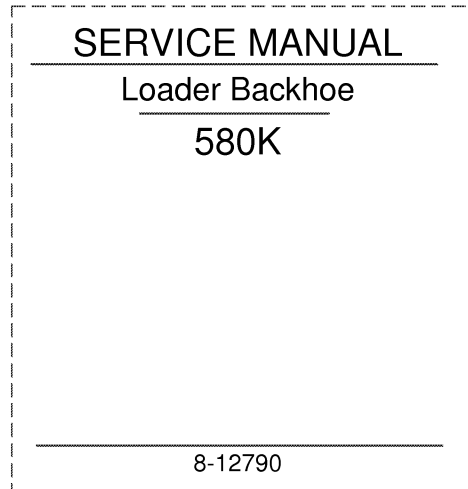


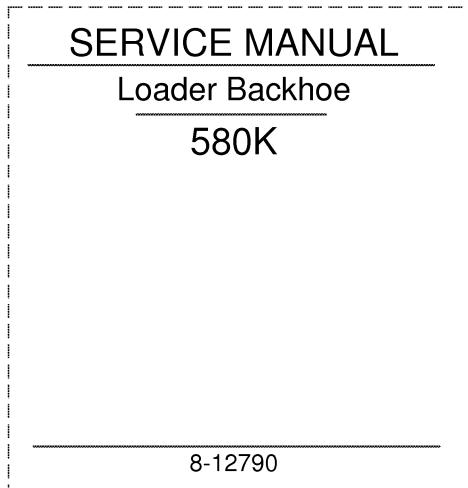
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



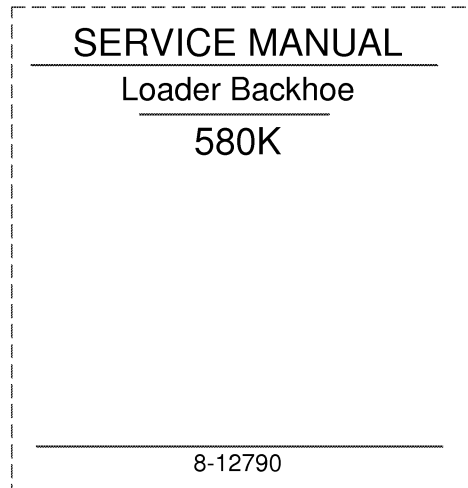
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

580K Loader Backhoe

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1001

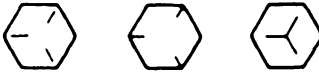
STANDARD TORQUE SPECIFICATIONS


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TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers, dry, or when lubricated with engine oil. Not applicable if special graphites, molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs		
		
Size	Pound-Feet	Newton metres
1/4 in	9-11	12-15
5/16 in	17-21	23-28
3/8 in	35-42	48-57
7/16 in	54-64	73-87
1/2 in	80-96	109-130
9/16 in	110-132	149-179
5/8 in	150-180	203-244
3/4 in	270-324	366-439
7/8 in	400-480	542-651
1.0 in	580-696	787-944
1-1/8 in	800-880	1085-1193
1-1/4 in	1120-1240	1519-1681
1-3/8 in	1460-1680	1980-2278
1-1/2 in	1940-2200	2631-2983


Grade 8 Bolts, Nuts, and Studs		
		
Size	Pound-Feet	Newton metres
1/4 in	12-15	16-20
5/16 in	24-29	33-39
3/8 in	45-54	61-73
7/16 in	70-84	95-114
1/2 in	110-132	149-179
9/16 in	160-192	217-260
5/8 in	220-264	298-358
3/4 in	380-456	515-618
7/8 in	600-720	814-976
1.0 in	900-1080	1220-1465
1-1/8 in	1280-1440	1736-1953
1-1/4 in	1820-2000	2468-2712
1-3/8 in	2380-2720	3227-3688
1-1/2 in	3160-3560	4285-4827


NOTE: Use thick nuts with Grade 8 bolts.

TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when special torques are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or molydisulfide grease or oil is used.

Grade 8.8 Bolts, Nuts, and Studs		
		
Size	Pound-Feet	Newton metres
M4	2-3	3-4
M5	5-6	6.5-8
M6	8-9	10.5-12
M8	19-23	26-31
M10	38-45	52-61
M12	66-79	90-107
M14	106-127	144-172
M16	160-200	217-271
M20	320-380	434-515
M24	500-600	675-815
M30	920-1100	1250-1500
M36	1600-1950	2175-2600

Grade 10.9 Bolts, Nuts, and Studs		
		
Size	Pound-Feet	Newton metres
M4	3-4	4-5
M5	7-8	9.5-11
M6	11-13	15-17.5
M8	27-32	37-43
M10	54-64	73-87
M12	93-112	125-15
M14	149-179	200-245
M16	230-280	310-380
M20	450-540	610-730
M24	780-940	1050-1275
M30	1470-1770	2000-2400
M36	2580-3090	3500-4200

Grade 12.9 Bolts, Nuts, and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres
37 Degree Flare Fittings			
1/4 in 6.4 mm	7/16-20	6-12	8-16
5/16 in 7.9 mm	1/2-20	8-16	11-21
3/8 in 9.5 mm	9/16-18	10-25	14-33
1/2 in 12.7 mm	3/4-16	15-42	20-56
5/8 in 15.9 mm	7/8-14	25-58	34-78
3/4 in 19.0 mm	1-1/16-12	40-80	54-108
7/8 in 22.2 mm	1-3/16-12	60-100	81-135
1.0 in 25.4 mm	1-5/16-12	75-117	102-158
1-1/4 in 31.8 mm	1-5/8-12	125-165	169-223
1-1/2 in 38.1 mm	1-7/8-12	210-250	285-338

Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres
Straight Threads with O-ring			
1/4 in 6.4 mm	7/16-20	12-19	16-25
5/16 in 7.9 mm	1/2-20	16-25	22-23
3/8 in 9.5 mm	9/16-18	25-40	34-54
1/2 in 12.7 mm	3/4-16	42-67	57-90
5/8 in 15.9 mm	7/8-14	58-92	79-124
3/4 in 19.0 mm	1-1/16-12	80-128	108-174
7/8 in 22.2 mm	1-3/16-12	100-160	136-216
1.0 in 25.4 mm	1-5/16-12	117-187	159-253
1-1/4 in 31.8 mm	1-5/8-12	165-264	224-357
1-1/2 in 38.1 mm	1-7/8-12	250-400	339-542

Split Flange Mounting Bolts		
Size	Pound- Feet	Newton metres
5/16-18	15-20	20-27
3/8-16	20-25	26-33
7/16-14	35-45	47-61
1/2-13	55-65	74-88
5/8-11	140-150	190-203

TORQUE SPECIFICATIONS - O-RING FACE SEAL FITTING

Nom. SAE Dash Size	Tube OD	Thread Size	Pound-Feet	Newton Metres	Thread Size	Pound-Feet	Newton Metres
O-ring Face Seal End					O-ring Boss End Fitting or Locknut		
-4	1/4 in 6.4 mm	9/16-18	10-12	14-16	7/16-20	17-20	23-27
-6	3/8 in 9.5 mm	11/16-16	18-20	24-27	9/16-18	25-30	33-40
-8	1/2 in 12.7 mm	13/16-16	32-40	43-54	3/4-16	45-50	61-68
-10	5/8 in 15.9 mm	1-14	46-56	60-75	7/8-14	60-65	81-88
-12	3/4 in 19.0 mm	1-3/16-12	65-80	90-110	1-1/16-12	85-90	115-122
-14	7/8 in 22.2 mm	1-3/16-12	65-80	90-110	1-3/16-12	95-100	129-136
-16	1.0 in 25.4 mm	1-7/16-12	92-105	125-140	1-5/16-12	115-125	156-169
-20	1-1/4 in 31.8 mm	1-11/16-12	125-140	170-190	1-5/8-12	150-160	203-217
-24	1-1/2 in 38.1 mm	2-12	150-180	200-254	1-7/8-12	190-200	258-271

Section

2001

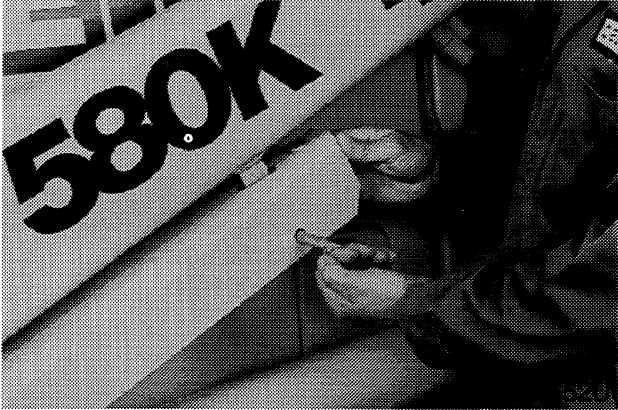
ENGINE REMOVAL AND INSTALLATION AND RADIATOR REMOVAL AND INSTALLATION

RADIATOR REMOVAL

STEP 1

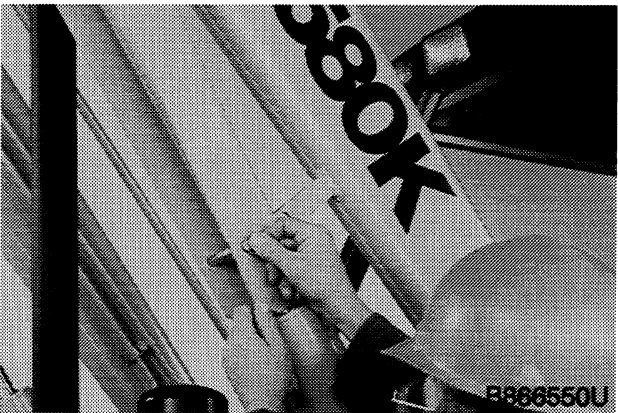
Park the machine on a level surface and apply the parking brake.

STEP 2



Remove the pin that holds the strut in place and lower the strut onto the lift cylinder.

STEP 3



Raise the loader frame until the strut is against the end of the lift cylinder. Install the pin in the strut.

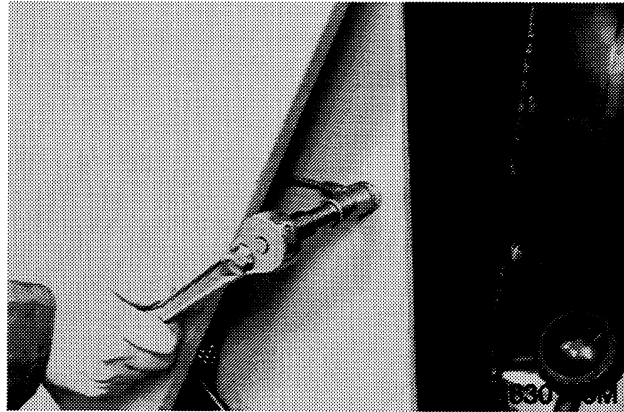
STEP 4

Raise the hood.

STEP 5

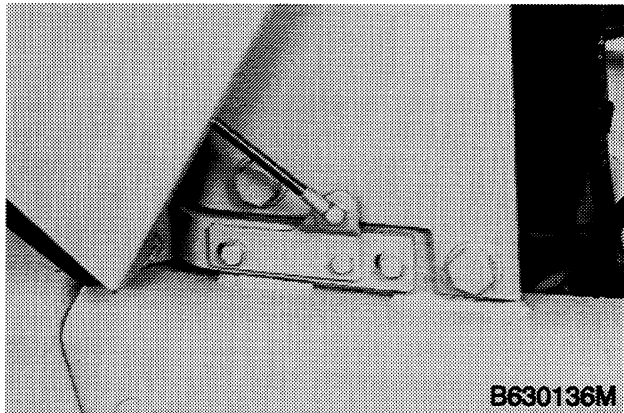
Have another person help you with steps 6, 7, and 8.

STEP 6



Loosen and remove the nuts, lock washers, spacers, flat washers, and bolts that fasten the cables to the radiator shroud.

STEP 7



Loosen and remove the cap screws, lock washers, and flat washers that fasten the hinges for the hood to the frame.

STEP 8

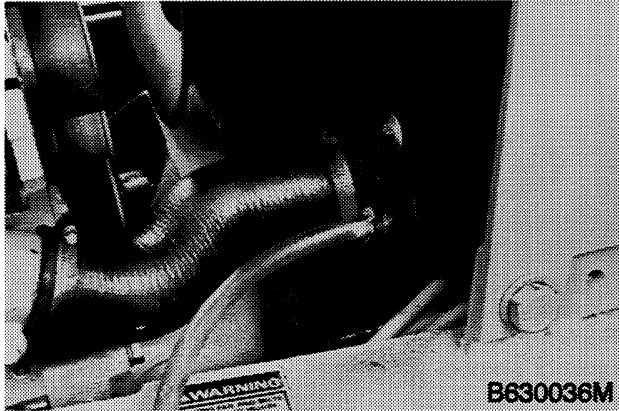


Pull the hood straight forward and remove the hood from the machine.

STEP 9

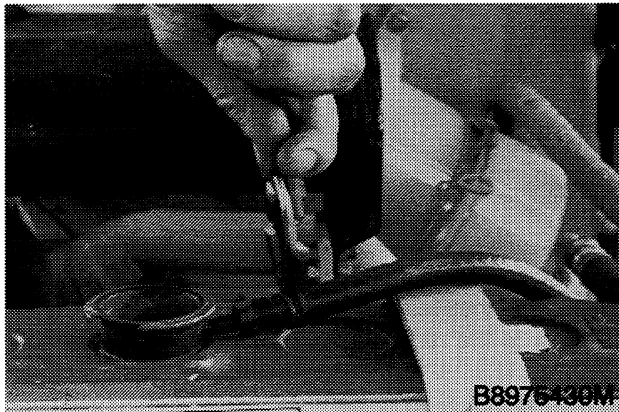
Loosen and remove the cap from the radiator.

STEP 10



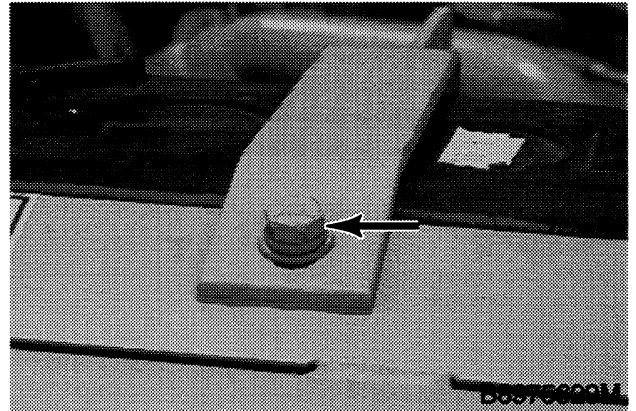
Install a hose on the drain valve of the radiator. The cooling system contains approximately 17.9 U.S. quarts (16.9 litres) of coolant. Open the drain valve and drain the coolant from the radiator.

STEP 11



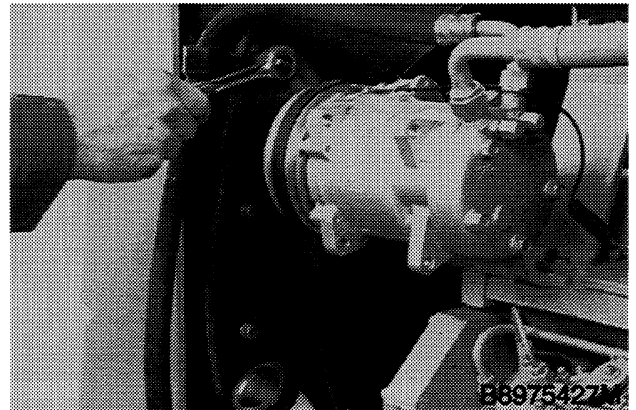
Disconnect the hose for the coolant reservoir from the fill neck of the radiator.

STEP 12



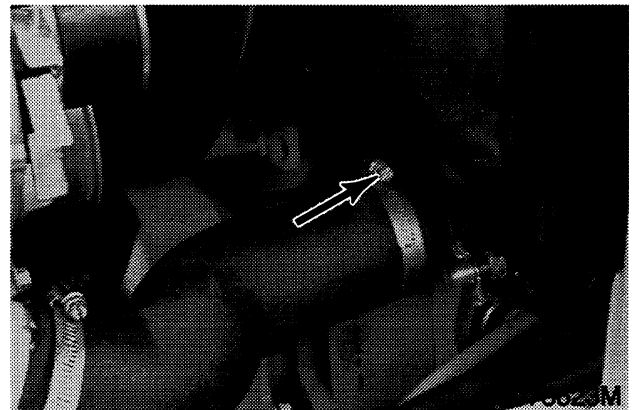
Loosen and remove the cap screw, lock washer, and flat washer that fasten the bracket to the radiator shroud. Remove the bracket.

STEP 13



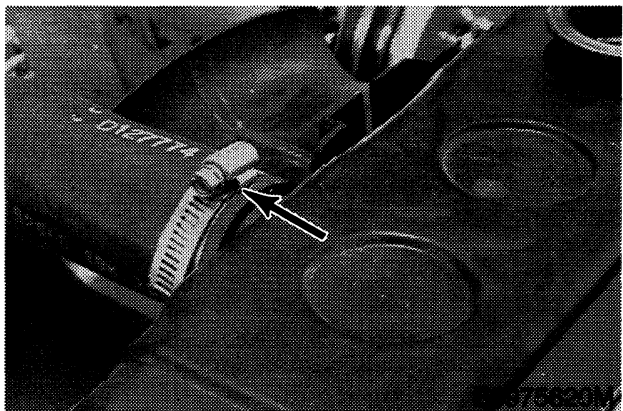
Loosen and remove the cap screws, lock washers, and flat washers that fasten the fan shroud to the radiator. Record the locations of the clamp for the hose for the coolant reservoir and the clamp for the compressor hose (if the machine is equipped with air conditioning) so that these parts can be installed correctly.

STEP 14



Loosen the hose clamp and disconnect the bottom hose from the radiator.

STEP 15



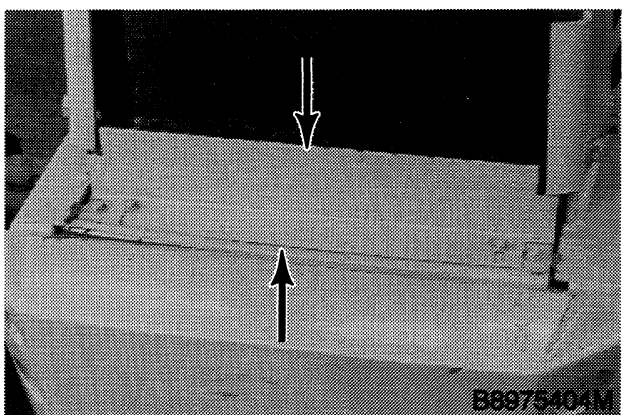
Loosen the hose clamp and disconnect the upper hose from the radiator.

STEP 18



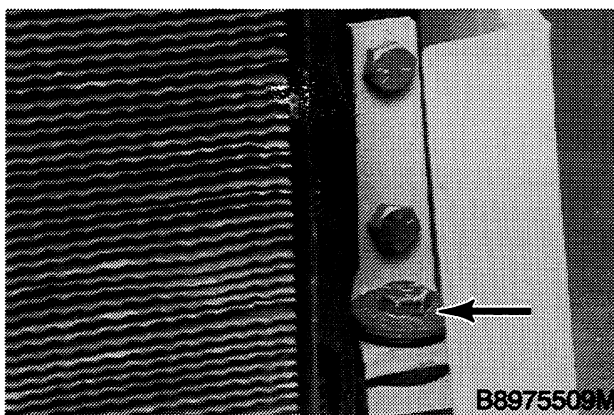
Remove the bottom foam baffle from each side of the radiator shroud.

STEP 16



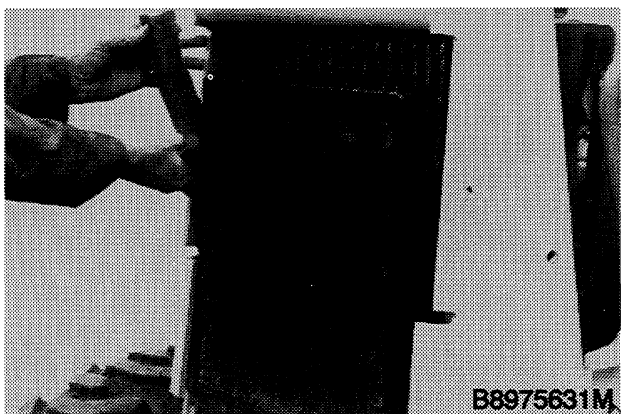
Loosen and remove the cap screws, lock washers, and flat washers that fasten the top cover to the bottom cover. Remove the top cover. Loosen and remove the cap screws, lock washers, and flat washers that fasten the bottom cover to the frame. Remove the bottom cover.

STEP 19



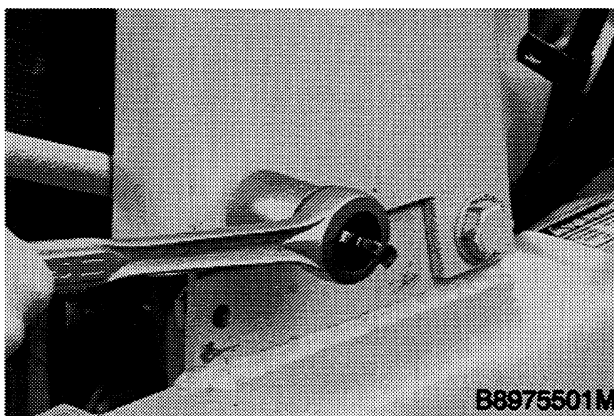
Loosen and remove the self-locking nuts, flat washers, and bolts that fasten the mounting brackets for the radiator to the radiator shroud.

STEP 17



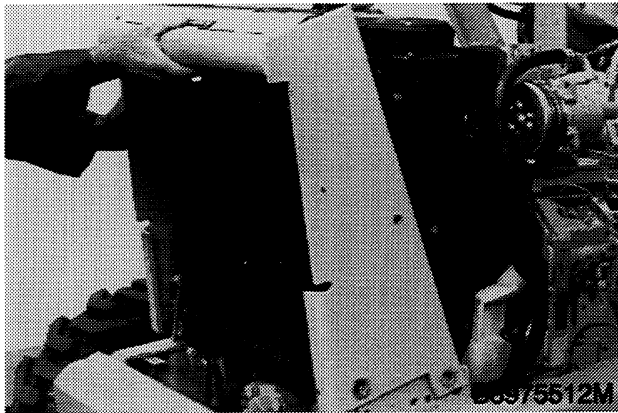
Remove the upper foam baffle from each side of the radiator shroud.

STEP 20



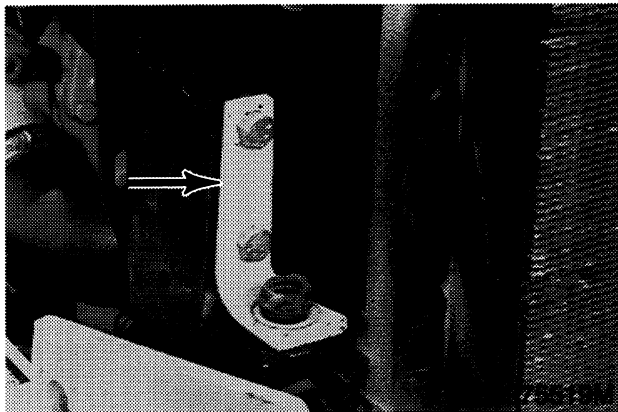
Loosen and remove the nuts, flat washers, and bolts that fasten the radiator shroud to the frame.

STEP 21



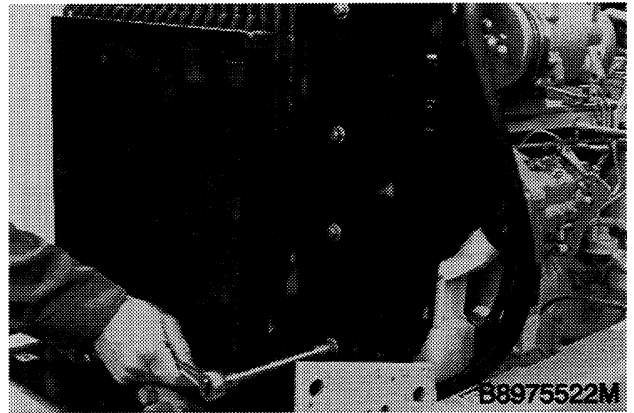
Remove the radiator shroud.

STEP 22



Loosen and remove the cap screws that fasten the mounting brackets to the radiator. Remove the mounting brackets.

STEP 23



Loosen and remove the cap screws, lock washers, and flat washers that fasten the condenser (if the machine is equipped with air conditioning) and the oil cooler to the radiator.

STEP 24



Remove the radiator from the machine.

RADIATOR INSTALLATION

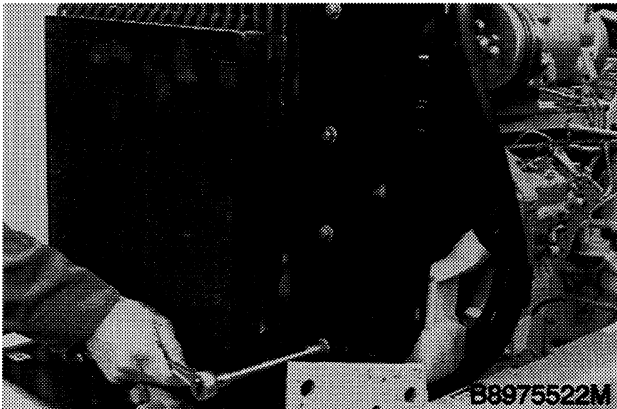
NOTE: Check the condition of the insulators in each mounting bracket for the radiator and replace the insulators as required.

STEP 25



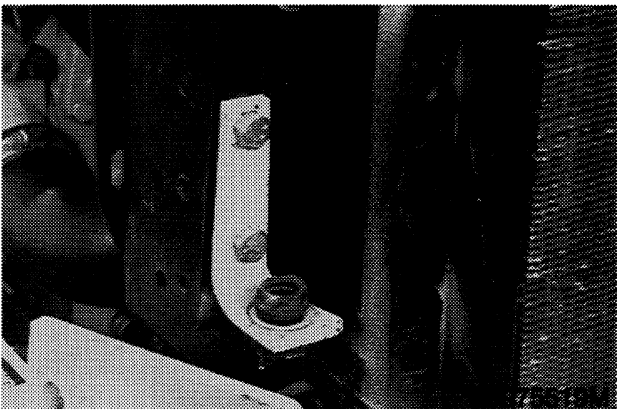
Install the radiator in position.

STEP 26



Install the cap screws, lock washers, and flat washers that fasten the oil cooler and the condenser (if the machine is equipped with air conditioning) to the radiator. Tighten the cap screws.

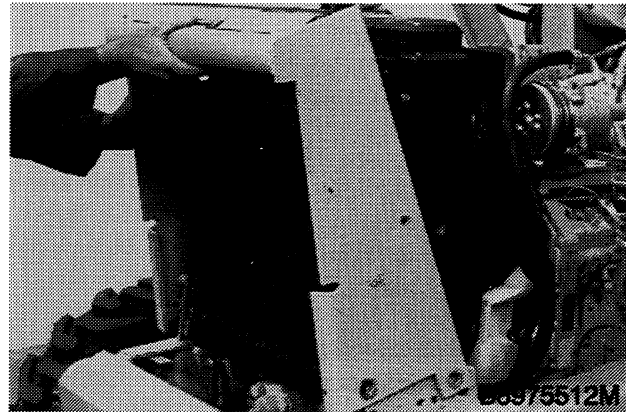
STEP 27



Install the mounting brackets for the radiator and install the cap screws. Tighten the cap screws.

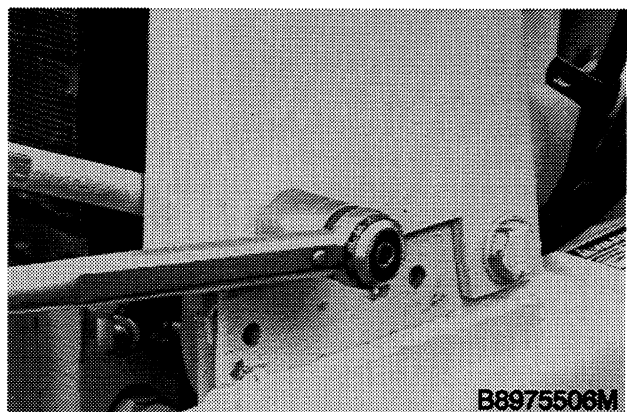
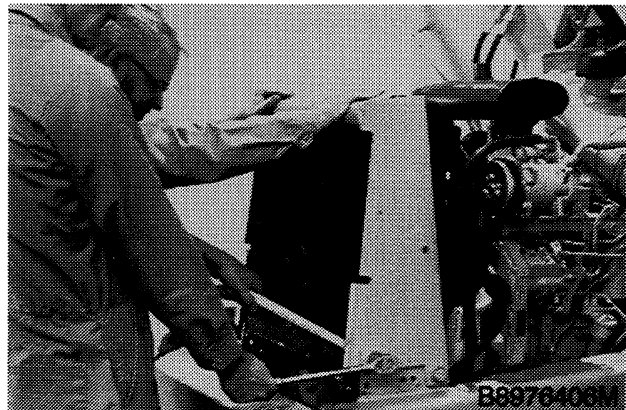
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STEP 28



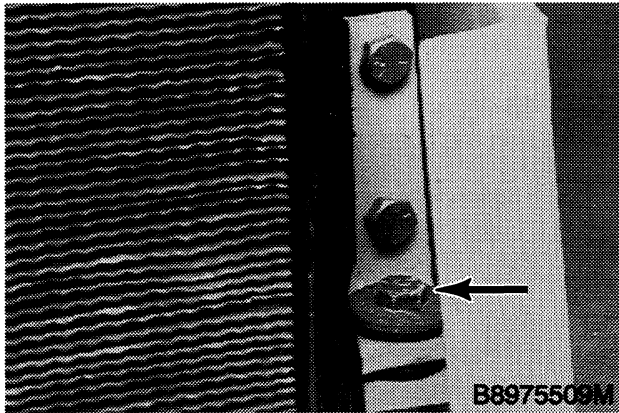
Install the radiator shroud.

STEP 29



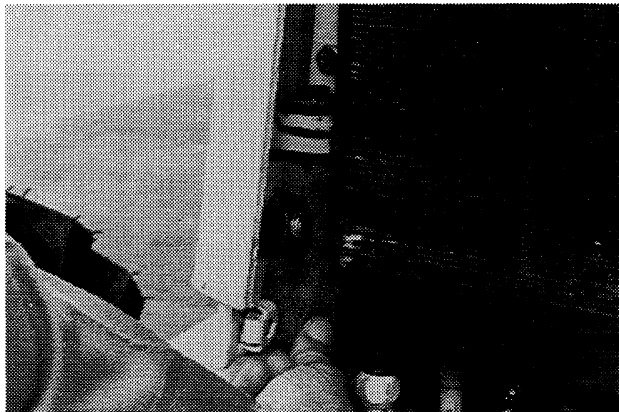
Install the bolts, flat washers, and nuts that fasten the radiator shroud to the frame. Have another person push the radiator shroud toward the radiator to remove any clearance at the holes for the bolts. Tighten the bolts to 270 to 324 pound-feet (366 to 439 Nm).

STEP 30



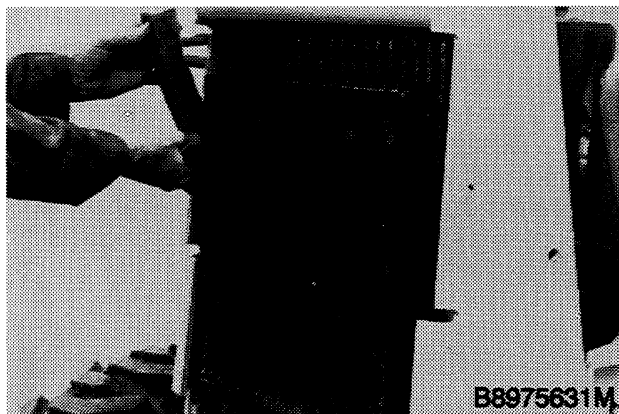
Install the bolts, flat washers, and self-locking nuts that fasten the mounting brackets for the radiator to the radiator shroud. Tighten the bolts.

STEP 31



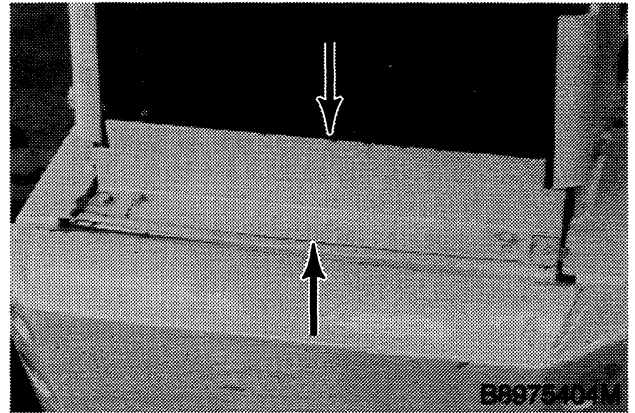
Install the bottom foam baffle in each side of the radiator shroud.

STEP 32



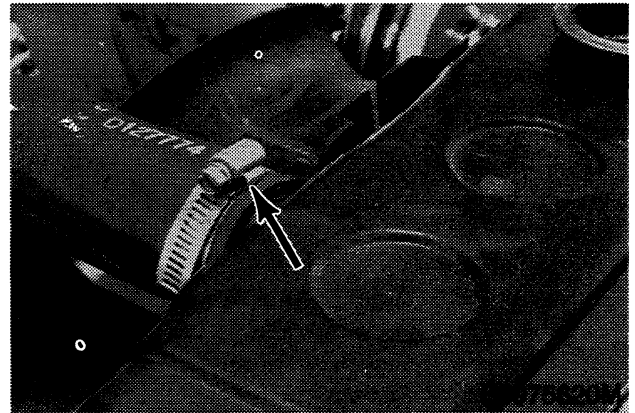
Install the upper foam baffle in each side of the radiator shroud.

STEP 33



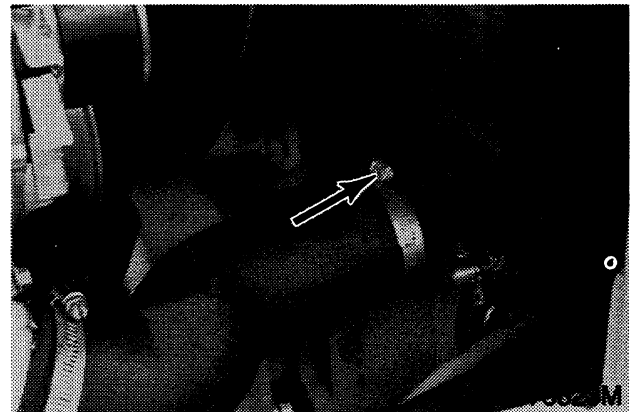
Install the bottom cover. Install the cap screws, lock washers, and flat washers that fasten the bottom cover to the frame. Tighten the cap screws. Install the top cover. Install the cap screws, lock washers, and flat washers that fasten the top cover to the bottom cover. Tighten the cap screws.

STEP 34



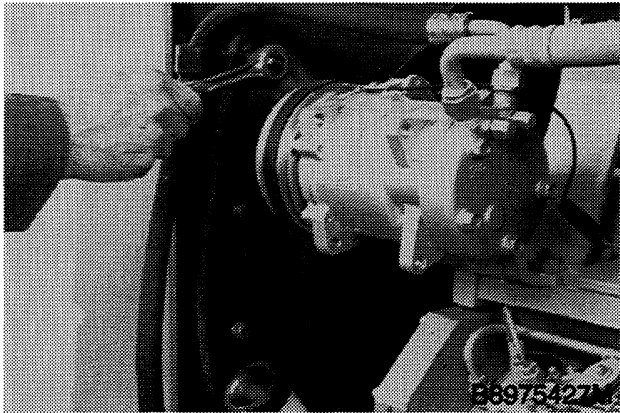
Connect the upper hose to the radiator and tighten the hose clamp.

STEP 35



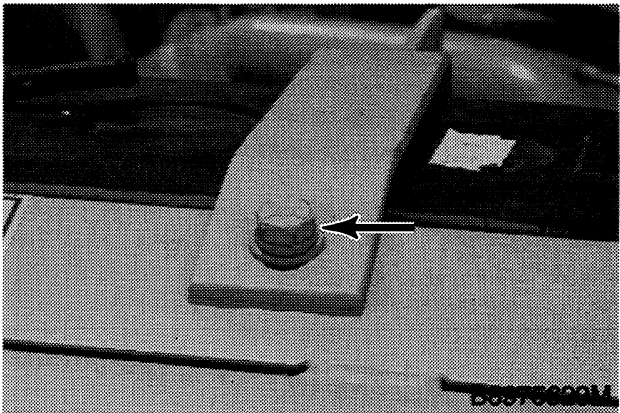
Connect the bottom hose to the radiator and tighten the hose clamp.

STEP 36



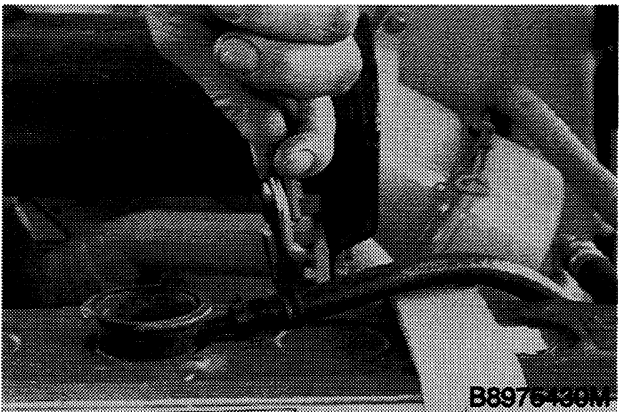
Install the cap screws, lock washers, and flat washers that fasten the clamp for the hose for the coolant reservoir, the clamp for the compressor hose (if the machine is equipped with air conditioning) and the fan shroud to the radiator.

STEP 37



Install the bracket on the radiator shroud and install the cap screw, lock washer, and flat washer. Tighten the cap screw.

STEP 38



Connect the hose for the coolant reservoir to the fill neck on the radiator.

STEP 39

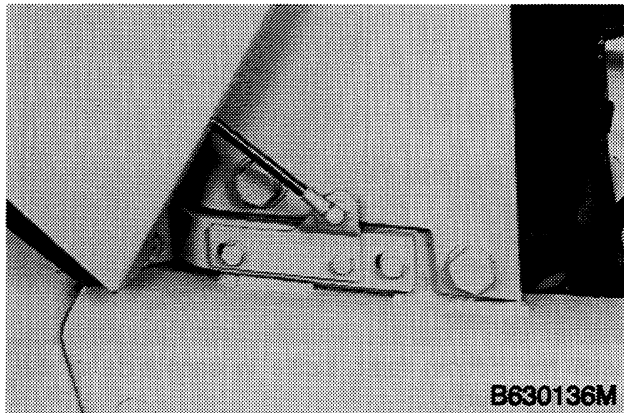
Have another person help you with steps 40 through 44.

STEP 40



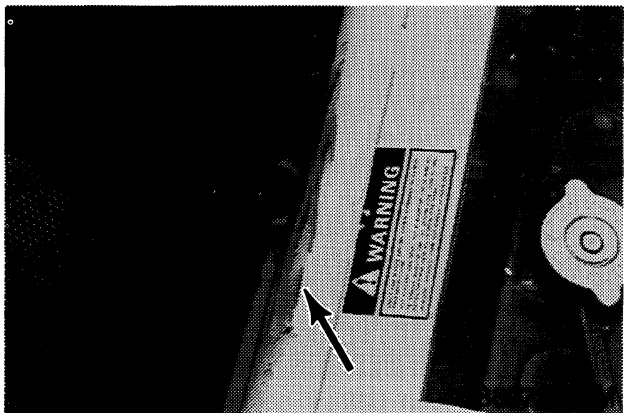
Install the hood in position on the frame and align the holes in the hinges with the holes in the frame.

STEP 41

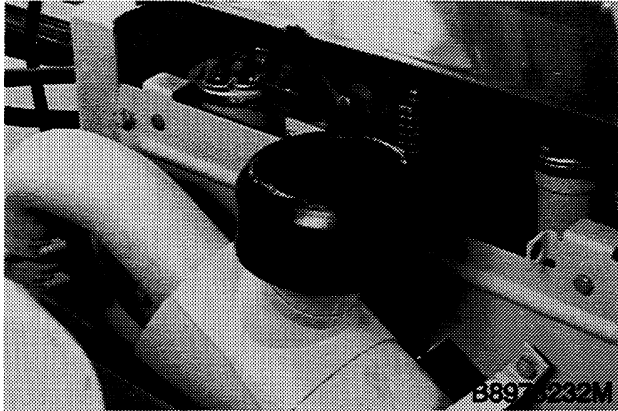


Install the cap screws, lock washers, and flat washers that fasten the hinges for the hood to the frame.

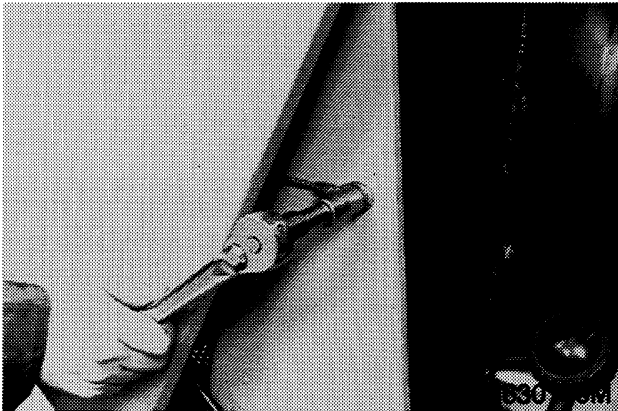
STEP 42



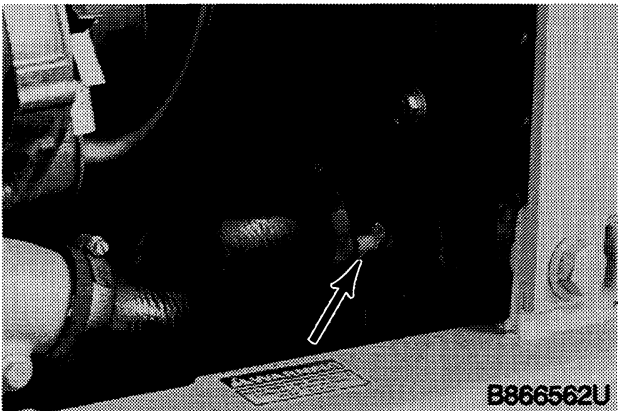
Apply grease to the top front of the radiator shroud where the hood must make contact when closed. Close the hood and make sure the hood makes contact with the top front of the radiator shroud. Adjust the hinges as required.

STEP 43

Open the hood. Apply grease to the rubber seal on the air cleaner. Close the hood and make sure the hood makes contact with the rubber seal on the air cleaner. Adjust the bracket for the air cleaner as required.

STEP 44

Install the bolts, flat washers, spacers, lock washers, and nuts that fasten the cables to the radiator shroud. Tighten the bolts.

STEP 45

Make sure the drain valve for the radiator is closed.

STEP 46

Fill the radiator completely and fill the coolant reservoir to the FULL mark. The cooling system contains approximately 17.9 U.S. quarts (16.9 litres) of coolant. If new coolant is being added, see Section 1002 for the correct mixture. Install the cap on the radiator.

STEP 47

Start the engine and run the engine at 1000 rpm (r/min). Run the engine at 1000 rpm (r/min) until the water temperature gauge indicates the engine is at operating temperature.

STEP 48

Stop the engine. Check for coolant leaks.

STEP 49

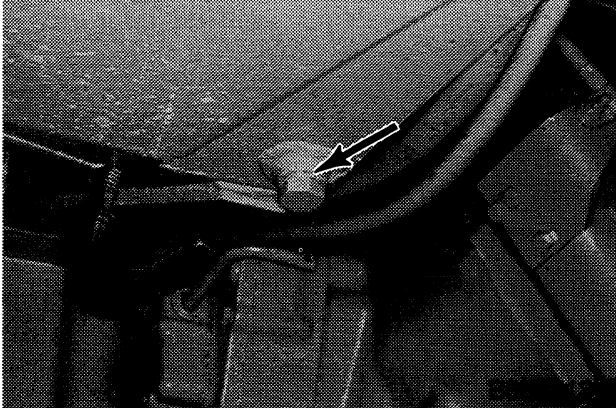
Check the level of the coolant in the coolant reservoir when the coolant is COLD. If necessary, add coolant to the coolant reservoir.

ENGINE REMOVAL

STEP 50

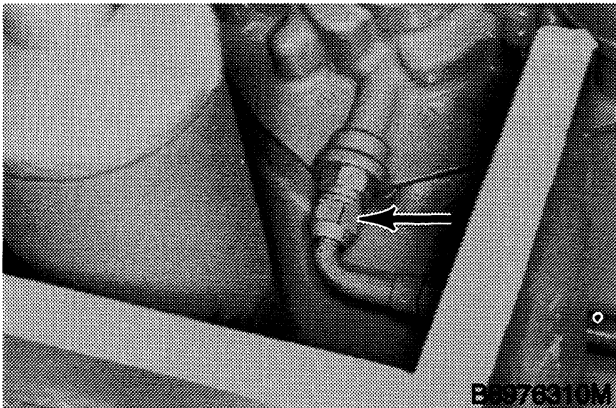
See Radiator Removal in this section and do steps 1 through 10.

STEP 51



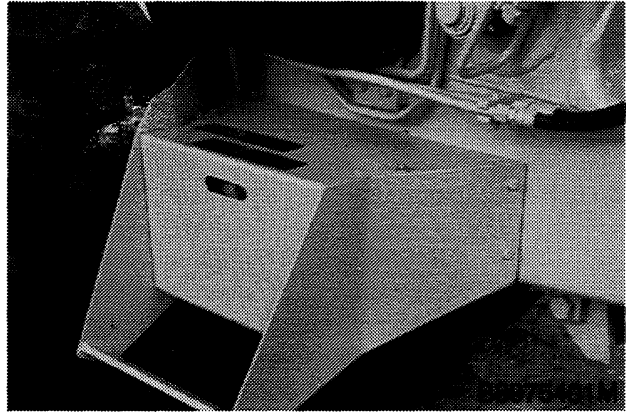
Drain the oil from the hydraulic reservoir. The hydraulic system contains approximately 22 U.S. gallons (83 litres) of oil.

STEP 52



Put a drain pan under the bottom of the torque converter housing. Disconnect the hose from the bottom of the torque converter housing. Install a plug in the hose and a cap on the fitting.

STEP 53

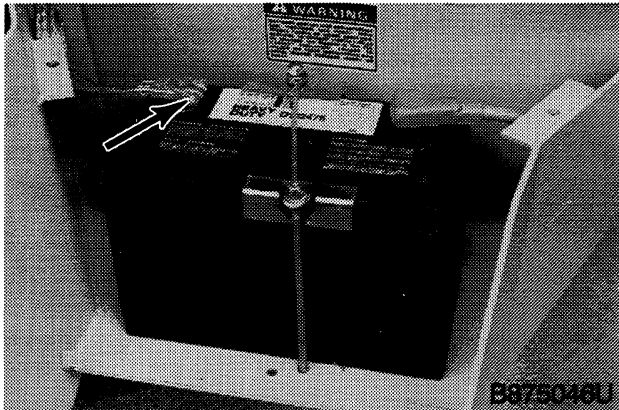


Loosen and remove the cap screws, lock washers, and flat washers that fasten the cover for the battery(s).

STEP 54

Remove the cover.

STEP 55



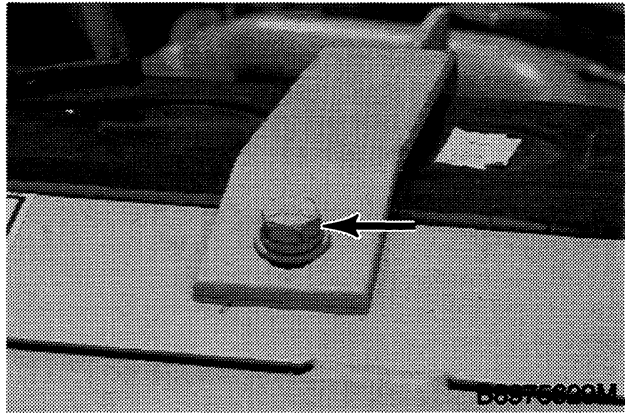
Disconnect the ground cable from the negative post of the battery(s).

STEP 56



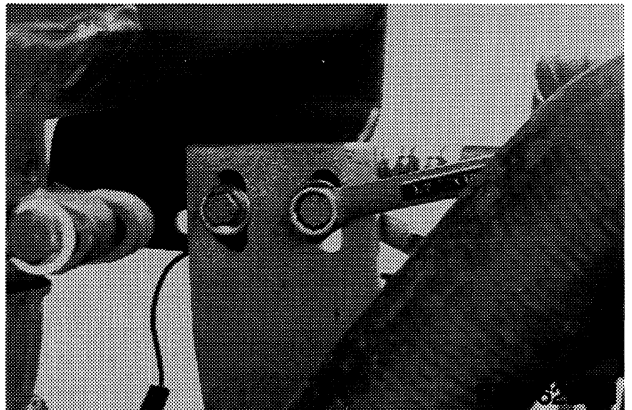
Disconnect the hose for the coolant reservoir from the fill neck of the radiator.

STEP 57



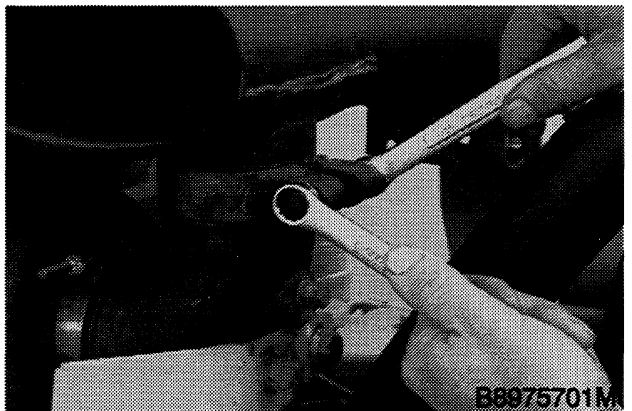
Loosen and remove the cap screw, lock washer, and flat washer that fasten the bracket to the radiator shroud. Remove the bracket.

STEP 58



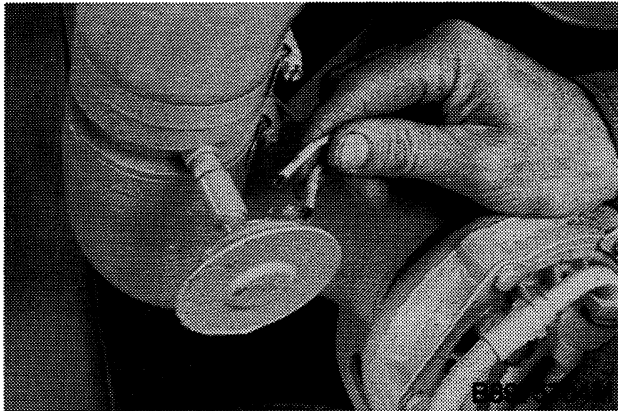
If the engine is equipped with a turbocharger, loosen and remove the nuts, lock washers, flat washers, and bolts that fasten the muffler to the mounting bracket on the engine.

STEP 59



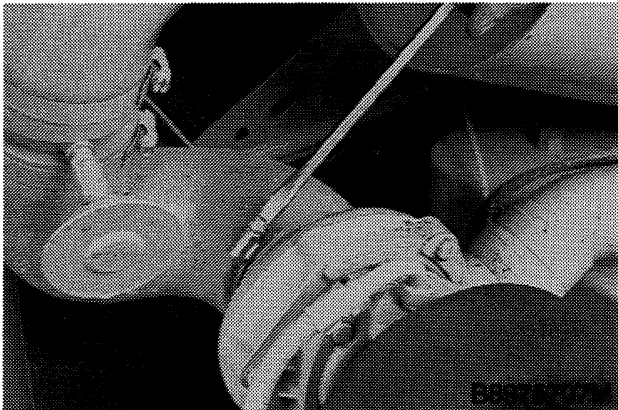
Loosen the clamp for the muffler and remove the muffler.

STEP 60



Disconnect the wires from the air restriction indicator switch. Cut the tie straps that fasten the wire to the fuel lines on top of the engine.

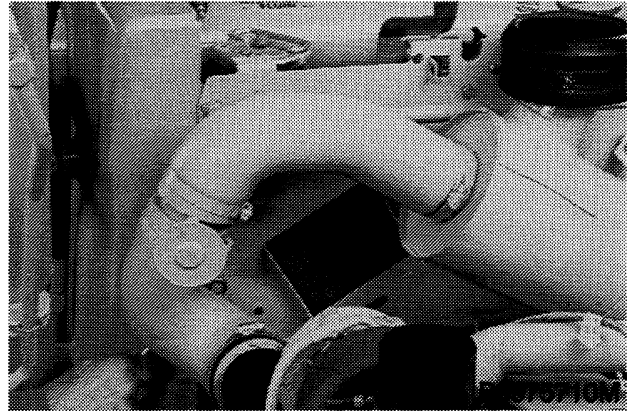
STEP 61



Loosen the clamp and disconnect the air cleaner hose from the turbocharger.

NOTE: *If the engine is not equipped with a turbocharger, loosen the clamp that fastens the air cleaner hose to the intake manifold. Remove the air cleaner hose from the intake manifold.*

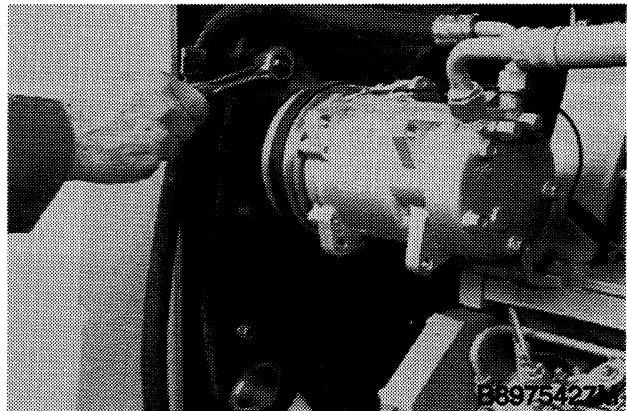
STEP 62



Loosen and remove the cap screws, lock washers, and flat washers that fasten the firewall to the frame. Remove the firewall and the air cleaner from the machine.

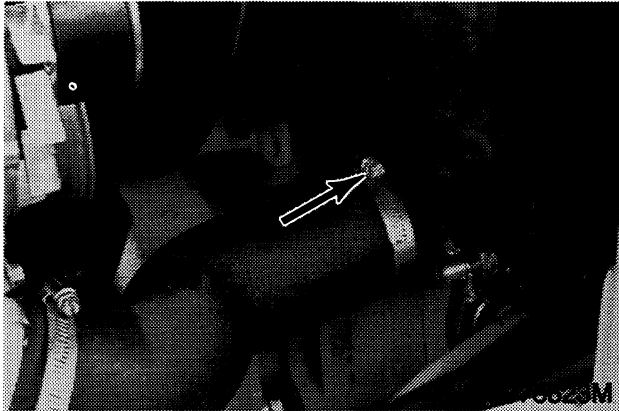
NOTE: *Use tape to cover or close the opening in the intake manifold (on machines without turbochargers) and the opening in the exhaust manifold.*

STEP 63



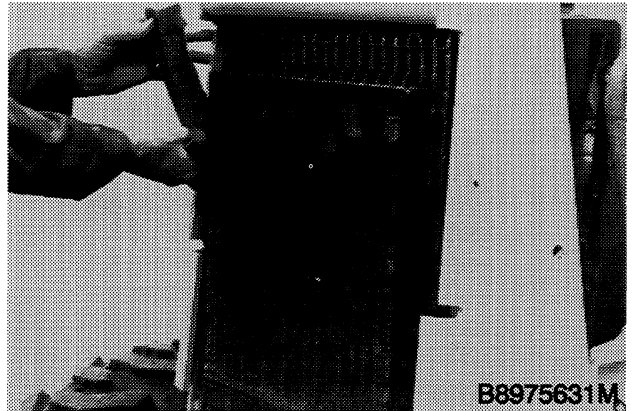
Loosen and remove the cap screws, lock washers, and flat washers that fasten the fan shroud to the radiator. Record the locations of the clamp for the hose for the coolant reservoir and the clamp for the compressor hose (if the machine is equipped with air conditioning) so that these parts can be installed correctly.

STEP 64



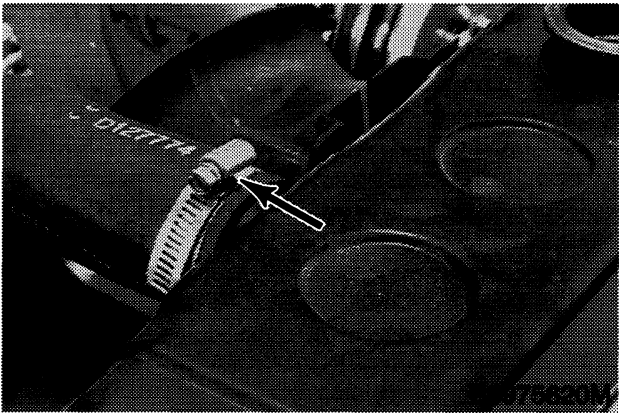
Loosen the hose clamp and disconnect the bottom hose from the radiator.

STEP 67



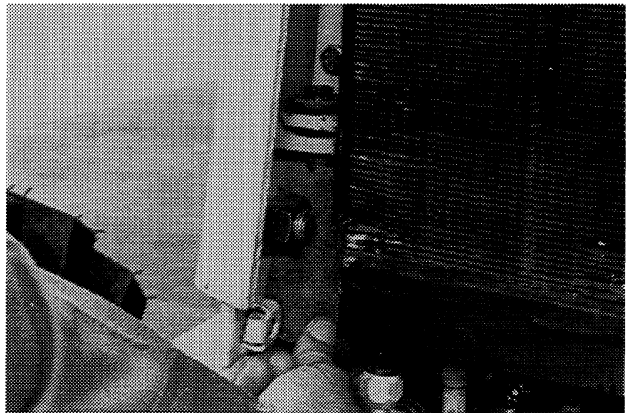
Remove the upper foam baffle from each side of the radiator shroud.

STEP 65



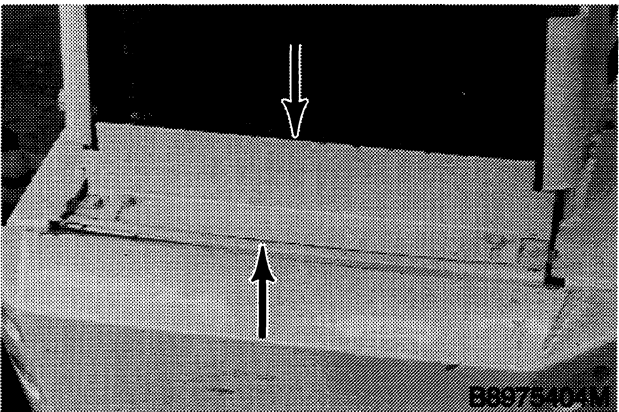
Loosen the hose clamp and disconnect the upper hose from the radiator.

STEP 68



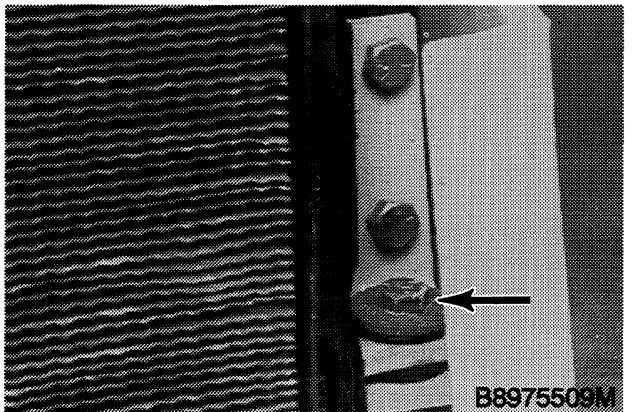
Remove the bottom foam baffle from each side of the radiator shroud.

STEP 66



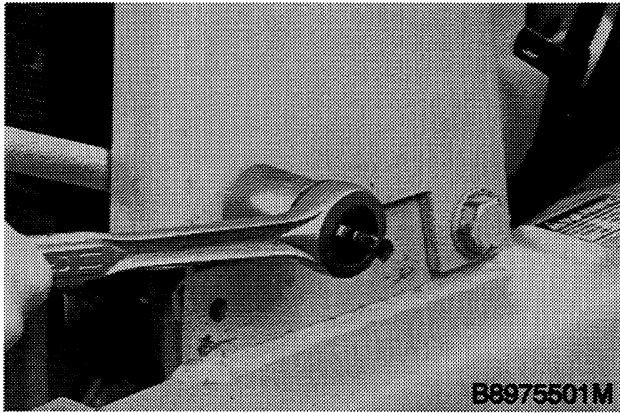
Loosen and remove the cap screws, lock washers, and flat washers that fasten the top cover to the bottom cover. Remove the top cover. Loosen and remove the cap screws, lock washers, and flat washers that fasten the bottom cover to the frame. Remove the bottom cover.

STEP 69



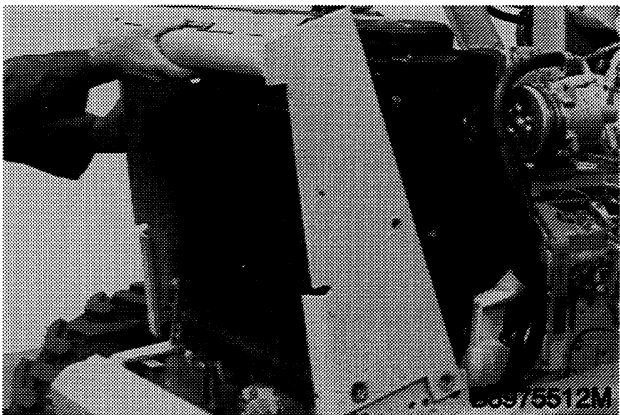
Loosen and remove the self-locking nuts, flat washers, and bolts that fasten the mounting brackets for the radiator to the radiator shroud.

STEP 70



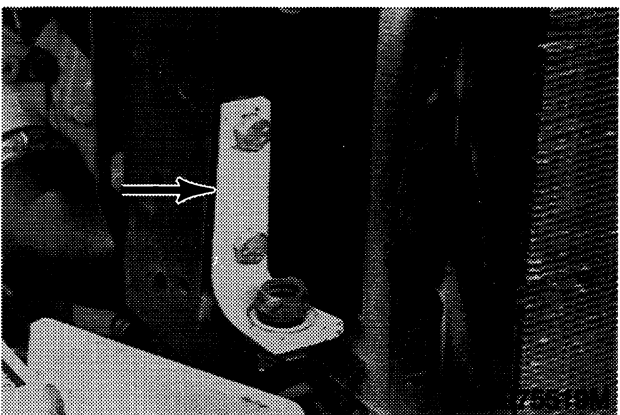
Loosen and remove the nuts, flat washers, and bolts that fasten the radiator shroud to the frame.

STEP 71



Remove the radiator shroud.

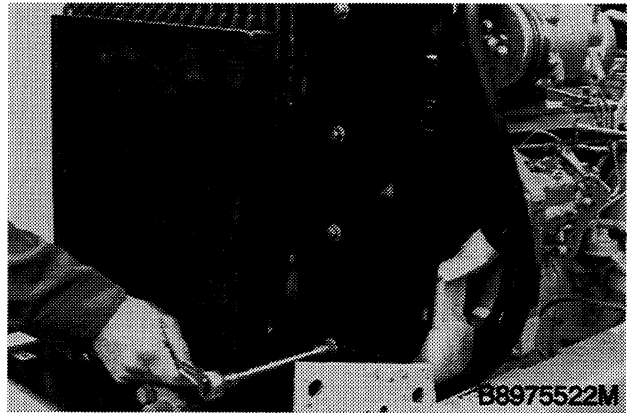
STEP 72



Loosen and remove the cap screws that fasten the mounting brackets to the radiator. Remove the mounting brackets.

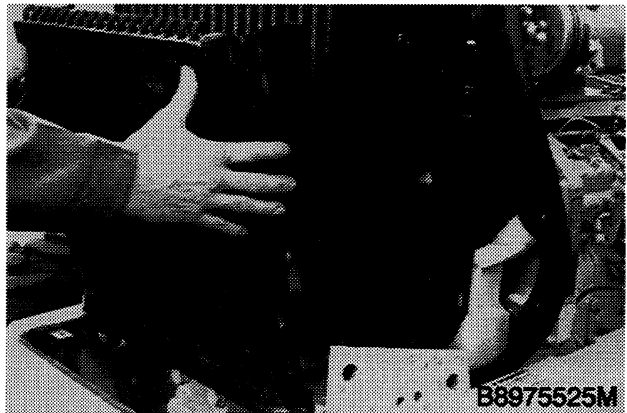
NOTE: If the machine is equipped with air conditioning, do steps 73 and 74.

STEP 73



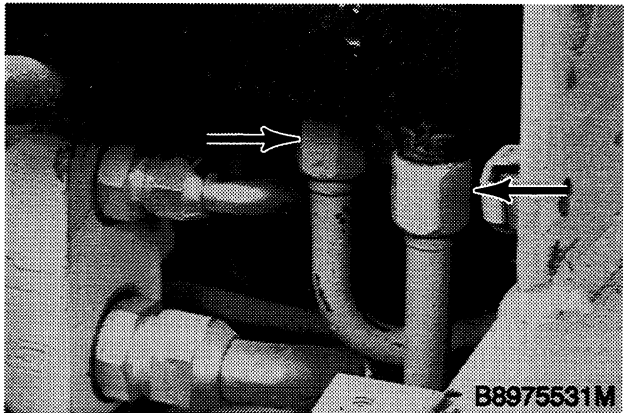
Loosen and remove the cap screws, lock washers, and flat washers that fasten the condenser to the radiator.

STEP 74



Pull the condenser away from the oil cooler and lower the condenser.

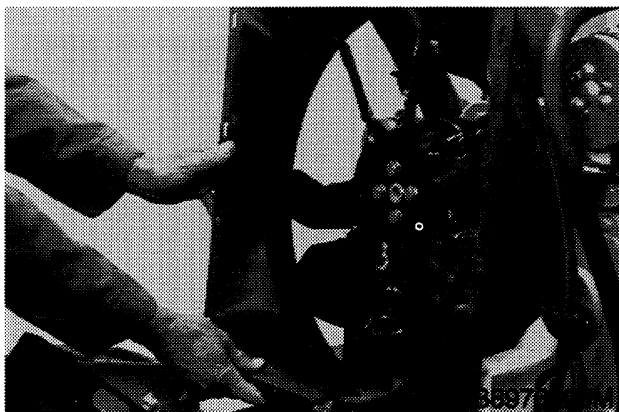
STEP 75



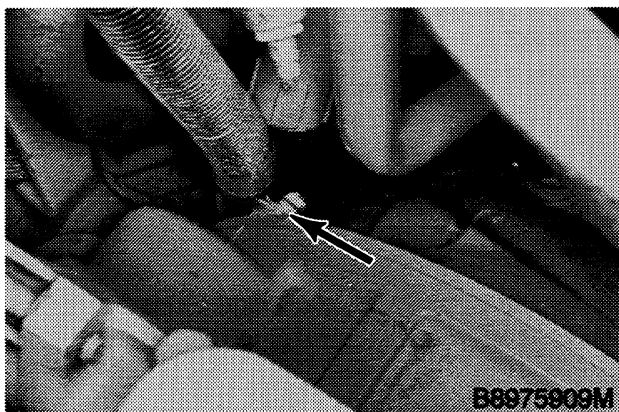
Disconnect the tubes at each side of the oil cooler. Install caps on the fittings and plugs in the tubes.

STEP 76

Remove the oil cooler and the radiator.

STEP 77

Remove the fan shroud.

STEP 78

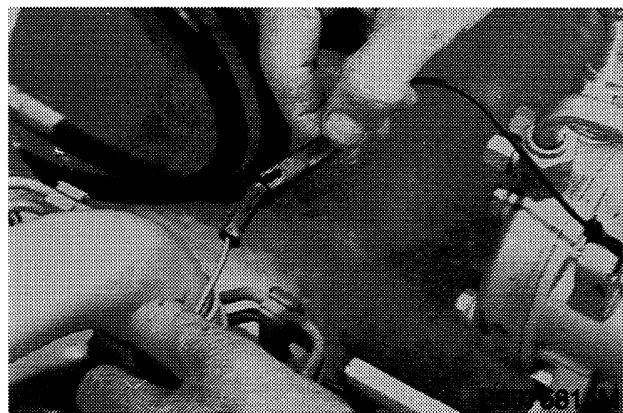
If the machine is equipped with a heater, loosen the hose clamp and disconnect the heater hose from the elbow fitting at the left rear side of the engine. Install a plug in the heater hose. Loosen and remove the cap screw and lock washer that fasten the clamp for the heater hose to the right side of the torque converter housing.

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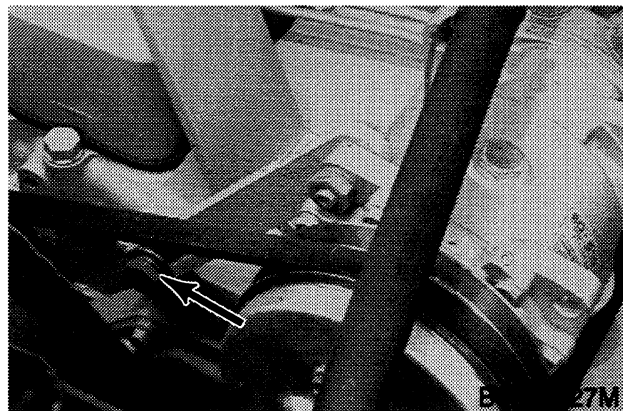
NOTE: If the machine is equipped with air conditioning, do steps 79 through 83.

STEP 79

Loosen and remove the cap screw and lock washer that fasten the clamp for the compressor hose to the left rear side of the torque converter housing.

STEP 80

Disconnect the wire for the compressor from the wire harness.

STEP 81

Loosen and remove the cap screw, lock washer, and flat washer that fasten the adjusting strap for the compressor to the mounting bracket. Push the compressor toward the engine and remove the belt from the pulley of the compressor.

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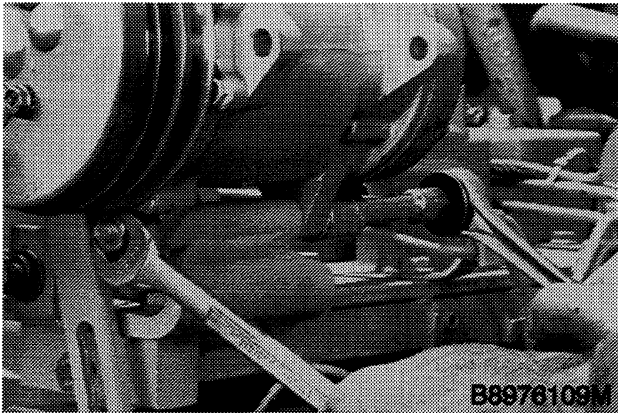
Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

STEP 82

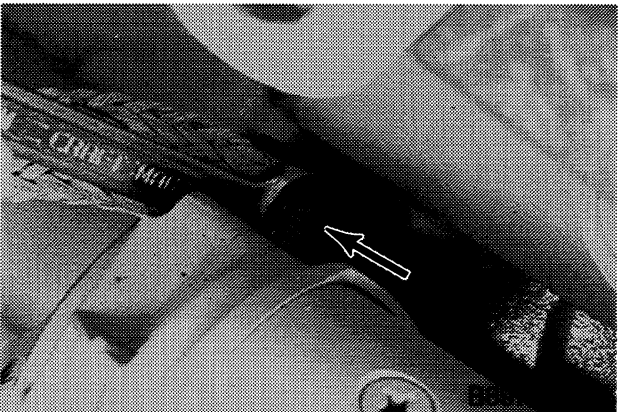


Loosen and remove the nut, lock washer, flat washer, and bolt that fasten the compressor to the mounting bracket.

STEP 83

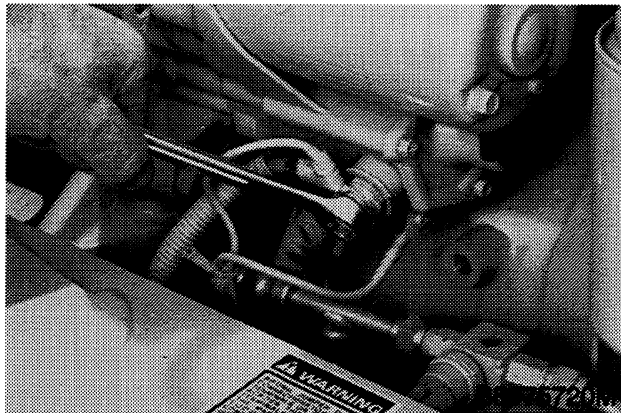
Move the condenser and the compressor to the right side of the engine and put the condenser and the compressor out of the way.

STEP 84



Loosen and remove the cap screw and lock washer that fasten the ground strap to the starter.

STEP 85



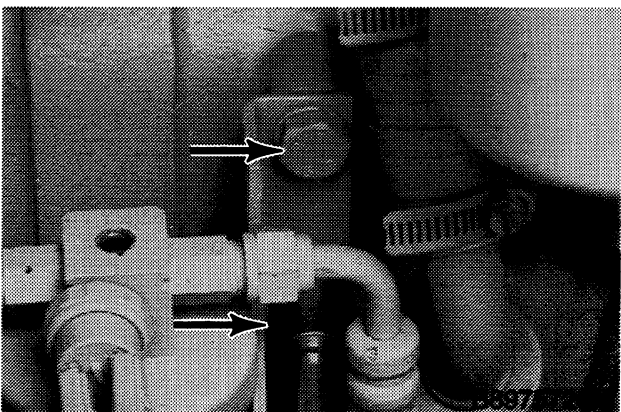
Disconnect the cables and wires from the battery terminal of the starter solenoid.

STEP 86



Disconnect the wire from the switch terminal of the starter solenoid. Fasten an identification tag to the wire.

STEP 87



Loosen and remove the cap screws and lock washers that fasten the bracket for the receiver-drier to the side of the engine. Lower the receiver-drier out of the way.

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