

Engine and Main Hydraulic Pump - Install

SMCS - 1024-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
(A)	6V-3145	Load Leveling Beam	1
(B)	8S-9906	Ratchet Puller	1

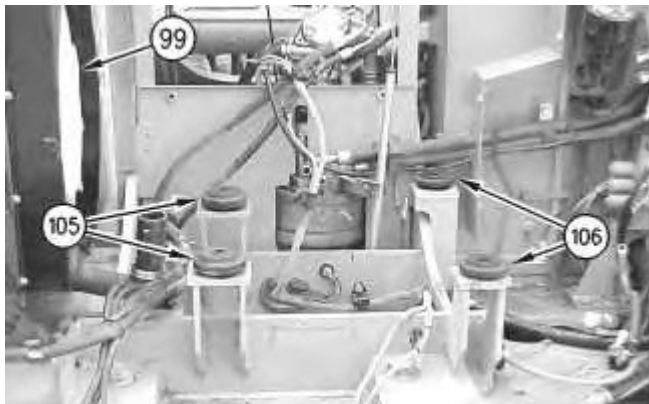


Illustration 1

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1. Install rubber mounts (105) on the front engine supports.
2. Install rubber mounts (106) on the rear engine supports.
3. Place a protective cover between fan (99) and the radiator core. Position fan (99) in the fan shroud.

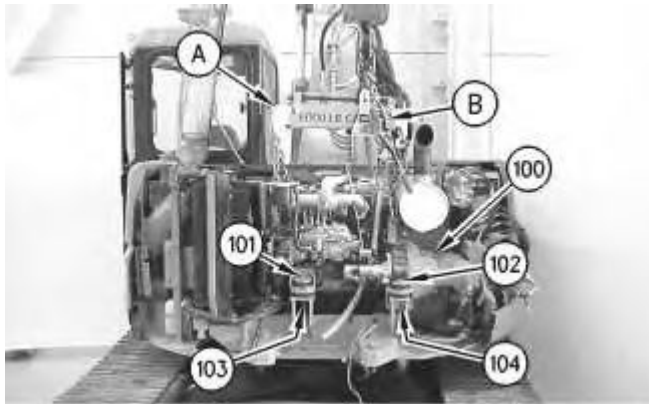


Illustration 2

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4. Fasten a suitable lifting device and Tooling (A) to the lifting brackets on the engine.
5. Fasten Tooling (B) to the hoist and the lifting bracket on the engine.

Note: Be careful to not damage the radiator core or damage the cooling fan while you install the engine and main hydraulic pump.

Note: The engine and main hydraulic pump must be kept level in order to prevent possible interference between the components. Adjust Tooling (A) and Tooling (B) in order to keep the engine and main hydraulic pump level.

6. Carefully install engine and main hydraulic pump (100) on the machine. The approximate weight of the engine and main hydraulic pump is 520 kg (1150 lb).
7. Install bolts (101) and nut assemblies (103) on the front engine mounts.
8. Install bolts (102) and nut assemblies (104) on the rear engine mounts.
9. Tighten the engine mount bolts to the specified torque.

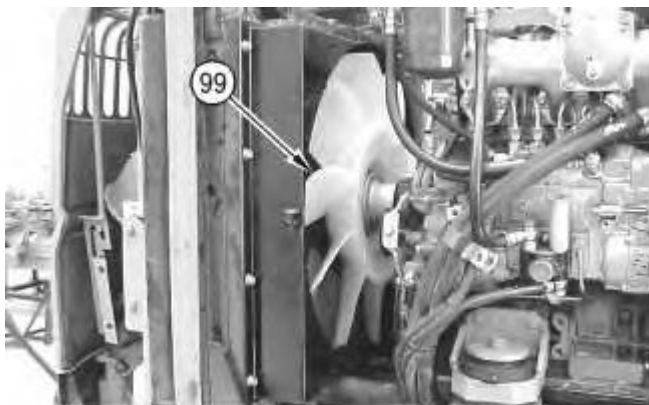


Illustration 3

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10. Install the nuts that secure fan (99) to the engine.

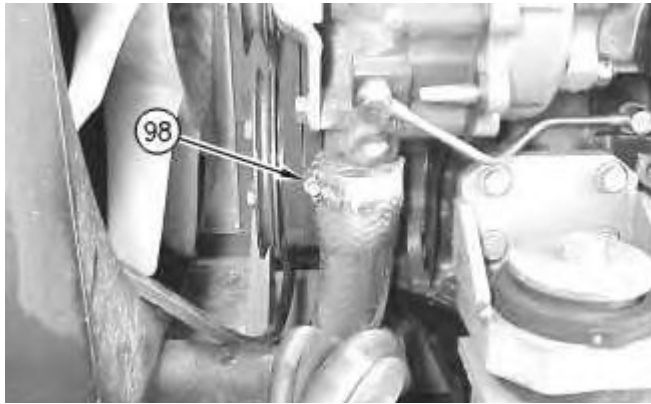


Illustration 4

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11. Connect the bottom radiator hose. Tighten hose clamp (98) .

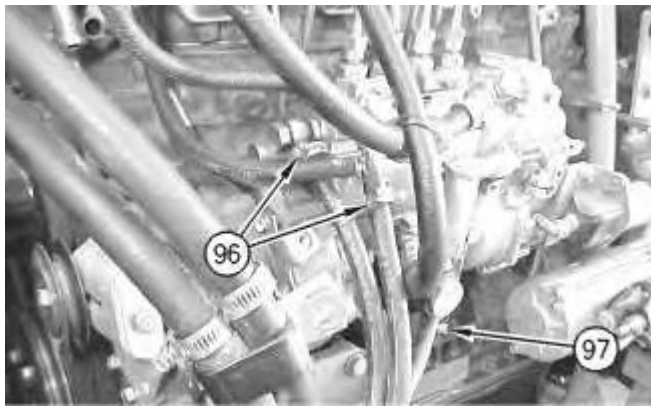


Illustration 5

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12. Connect the fuel lines to the fuel injection pump. Tighten hose clamps (96) .
13. Connect the fuel line to the fuel priming pump. Tighten hose clamp (97) .

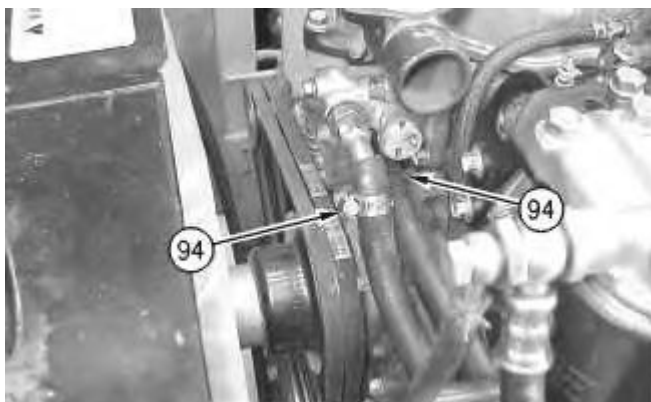


Illustration 6

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14. Connect the heater hoses. Tighten hose clamps (94) .

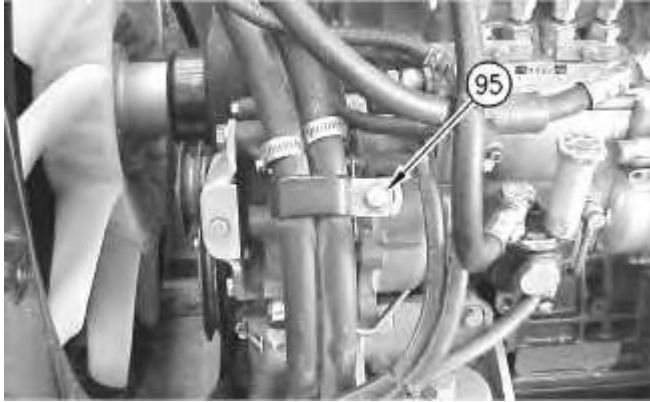


Illustration 7

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15. Install the washer and bolt (95) in order to install the clip on the heater hoses.

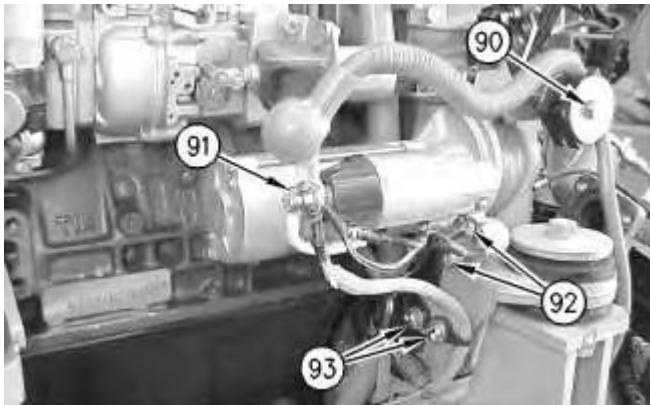


Illustration 8

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16. Connect the electrical wires to the starter. Install nut (91). Install the cover over nut (91) .
17. Install the battery cable in the clamp. Install the clamp and bolt (90) .
18. Connect the wires to the starter. Install screws (92) .
19. Install the washers and bolts (93) in the harness clips.
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