CATERPILLAR

Service Manual

232 SKID STEER LOADER

S/N CAB00001-UP

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CATERPILLAR 232 SKID STEER LOADER SERVICE REPAIR MANUAL CAB00001-UP

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Product: SKID STEER LOADER
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Configuration: 216 226 232 242 Skid Steer Loader CAB00001-UP (MACHINE) POWERED BY 3024C, 3034 Engine

Disassembly and Assembly
216 and 232 Skid Steer Loaders 3024 Engine Supplement
Media Number -RENR4833-01 **Publication Date -01/09/2002** **Date Updated -16/09/2002**

i01787449

Air Cleaner - Remove and Install

SMCS - 1051-010

Removal Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	5P-3413	Pipe Sealant	1



Illustration 1 g00914704

1. Release clamps (1). Remove air cleaner housing cover (2). Remove the primary air filter and the secondary air filter.

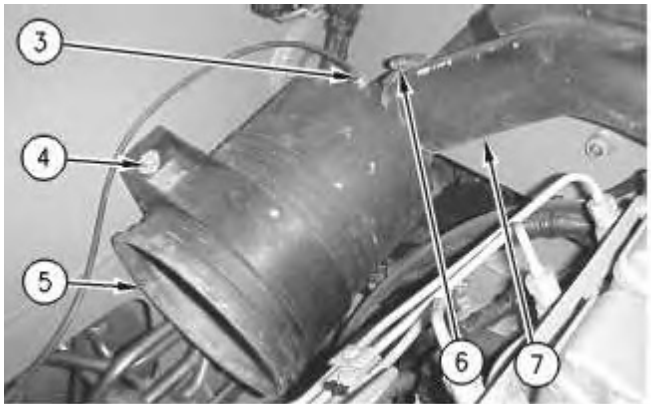


Illustration 2 g00914705

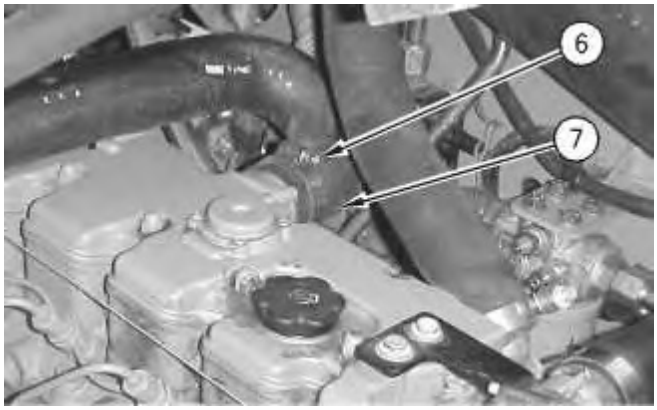


Illustration 3 g00914708

2. Disconnect the hose and remove fitting (3). Loosen clamps (6). Disconnect hose (7). Remove bolts (4). Remove air cleaner housing (5) .

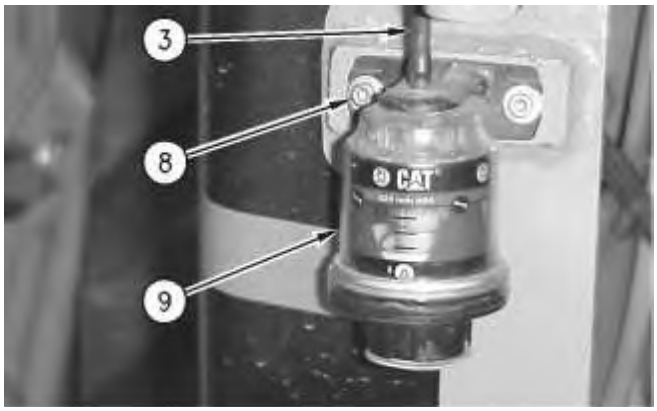


Illustration 4 g00914709

3. Disconnect hose (3). Remove screws (8). Remove service indicator (9) .

Installation Procedure

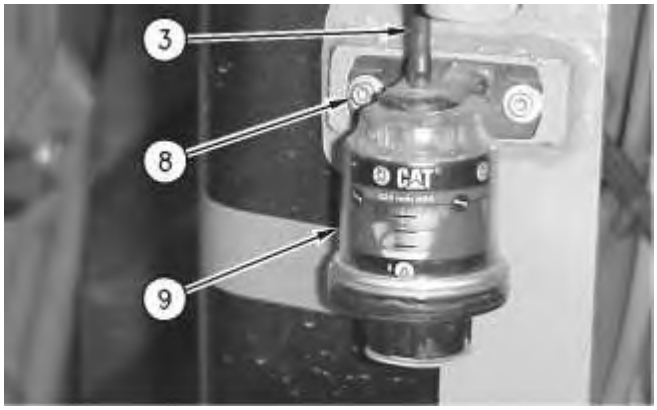


Illustration 5 g00914709

1. Install service indicator (9). Install screws (8). Torque screws to 1.7 ± .25 N·m (15 ± 2 lb in). Connect hose (3) .

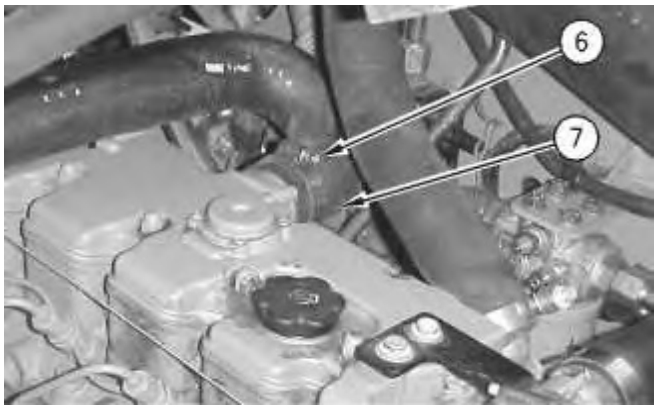


Illustration 6 g00914708

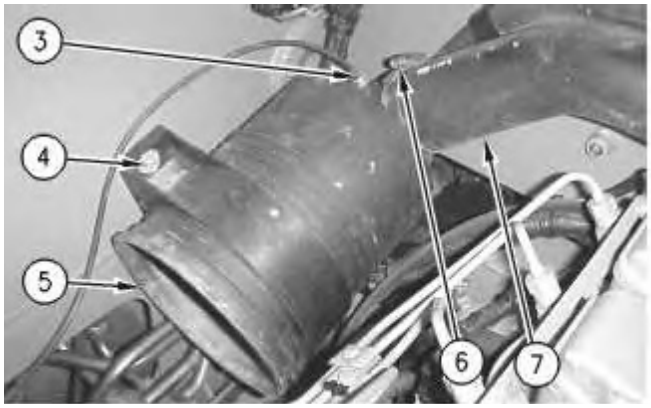


Illustration 7 g00914705

2. Install air cleaner housing (5). Install bolts (4). Torque the bolts to 19 ± 2 N·m (14 ± 1 lb ft). Connect hose (7). Install clamps (6). Torque the clamps to 4.5 ± .5 N·m (40 ± 4 lb in). Apply Tooling (A) to fitting (3). Install fitting (3) and connect the hose.



Illustration 8 g00914704

3. Install the primary air filter and the secondary air filter. Install air cleaner housing cover (2). Secure clamps (1) .

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Configuration: 216 226 232 242 Skid Steer Loader CAB00001-UP (MACHINE) POWERED BY 3024C, 3034 Engine

Disassembly and Assembly
216 and 232 Skid Steer Loaders 3024 Engine Supplement
Media Number -RENR4833-01 **Publication Date -01/09/2002** **Date Updated -16/09/2002**

i01786742

Alternator - Remove and Install

SMCS - 1405-010

Removal Procedure

Start By:

A. Disconnect battery cables. Refer to Disassembly and Assembly, "Battery and Battery Cable - Separate and Connect".



Illustration 1 g00913977

1. Remove bolts (1). Remove cover (2) .

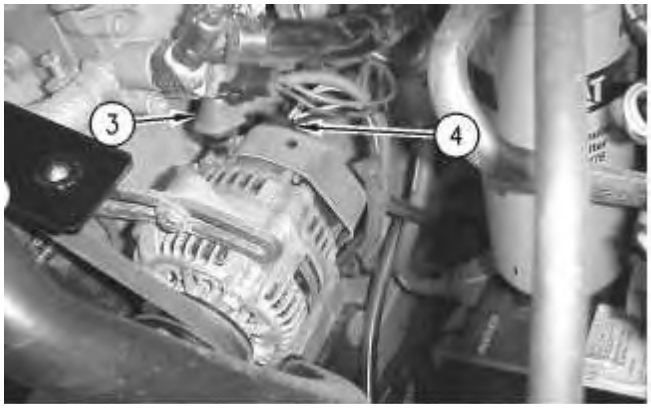


Illustration 2 g00913978

2. Raise the rubber boot (3). Remove the nut and the wire. Disconnect harness assembly (4) .

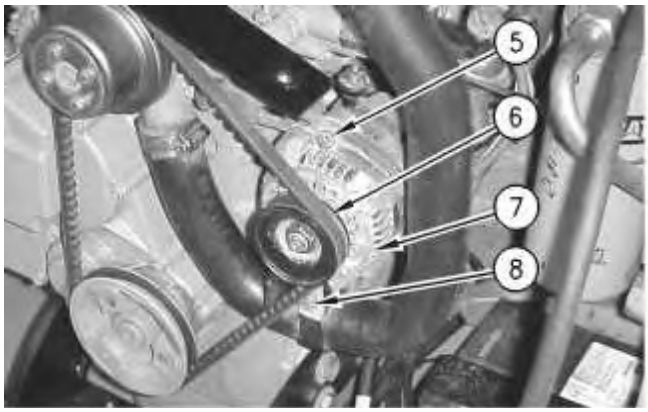


Illustration 3 g00913984

3. Loosen bolt (5). Loosen bolt (8) .
4. Remove belt (6). Remove bolt (5). Remove bolt (8). Remove alternator (7) .

Installation Procedure

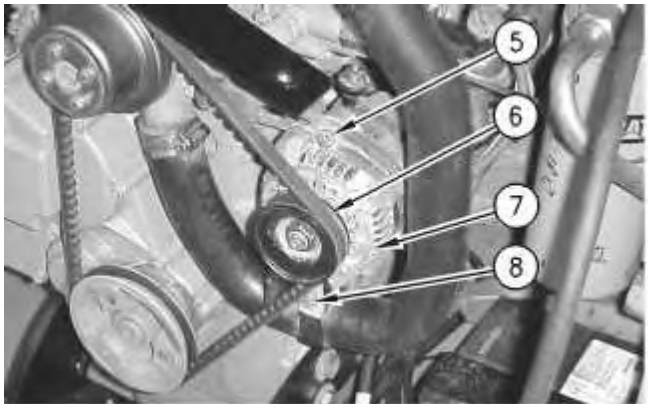


Illustration 4 g00913984

1. Install alternator (7). Install bolt (8). Install bolt (6). Do not tighten bolts.
2. Install belt (7) .

   Note: Refer to the Operation and Maintenance Manual, SEBU7468, "Belt - Inspect/Adjust/Replace" for the correct tightening procedure.

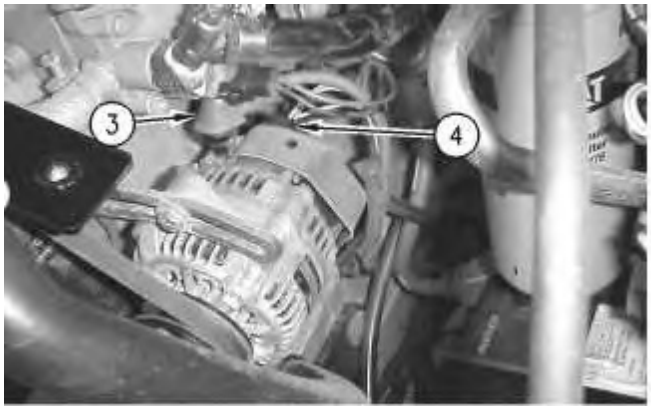


Illustration 5 g00913978

3. Connect harness assembly (4) .
4. Install the wire and the nut. Lower rubber boot (3) .



Illustration 6 g00913977

5. Install the cover (2). Install bolts (1). Torque the bolts to 15 ± 3 N·m (11 ± 2 lb ft).

End By: Connect battery cables. Refer to Disassembly and Assembly, "Battery and Battery Cable - Separate and Connect".

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i01782759

Battery and Battery Cable - Separate and Connect

SMCS - 1401-029

Separation Procedure



Illustration 1 g00594399

1. Raise the cover on the negative terminal of the battery. Disconnect negative terminal (2) of the battery. Place a protective cover on the negative terminal of the battery.
2. Raise the cover on the positive terminal of the battery. Disconnect positive terminal (1) of the battery. Place a protective cover on the positive terminal of the battery.



Illustration 2 g00911928

3. Remove bolts (3). Remove bracket (4) .
4. Remove battery (5) .

Connection Procedure



Illustration 3 g00911928

1. Install battery (5) .

   Note: Both battery terminals must be next to the engine.

2. Install bracket (4). Install bolts (3) .

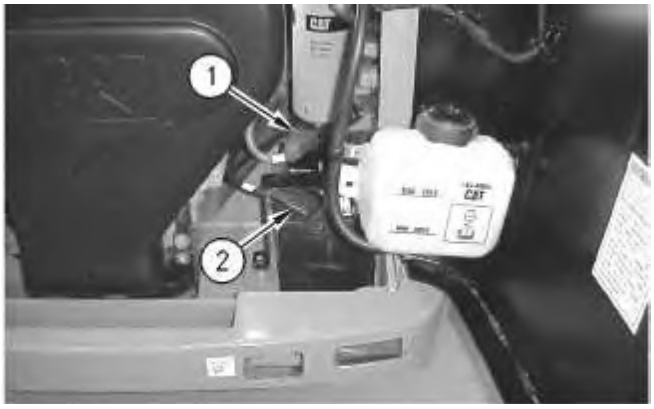


Illustration 4 g00594399

3. Remove the protective cover from the positive terminal of the battery. Connect positive terminal (1). Lower the cover on the positive terminal of the battery.

4. Remove the protective cover from the negative terminal of the battery. Connect negative terminal (2). Lower the cover on the negative terminal of the battery.

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i01715326

Cab - Tilt

SMCS - 7301-029

Procedure to Tilt the Cab

Start By:

A. Release the hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".

WARNING

Do not go beneath cab unless cab is empty and support lever is engaged.

Failure to follow the instructions or heed the warnings could result in injury or death.

Note: Empty the water tank (if equipped) before you tilt the cab.



Illustration 1 g00601508

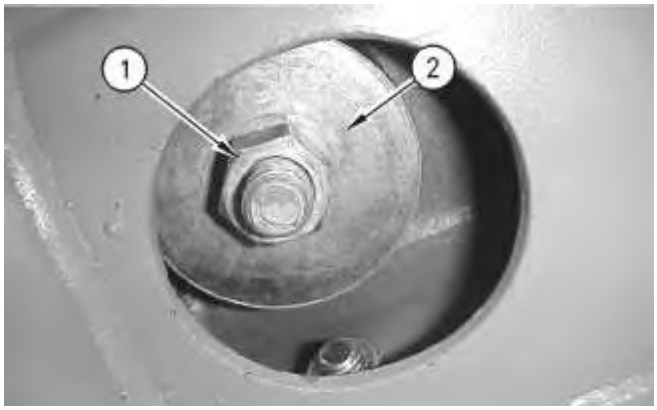


Illustration 2 g00597525

1. Remove nut (1) and large washer (2) from the inside of the cab.

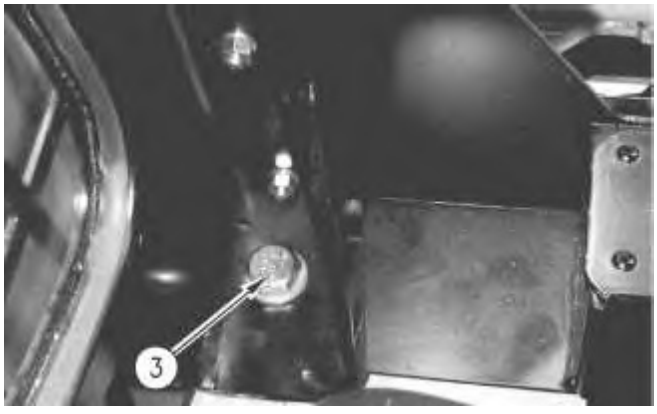


Illustration 3 g00597551

2. Remove bolt (3) .
3. Repeat Steps 1 and 2 on the opposite side of the cab.



Illustration 4 g00597554

4. Raise cab (4) .



Illustration 5 g00601451



Illustration 6 g00563598

5. Engage cab support lever (5) .

Lower Procedure

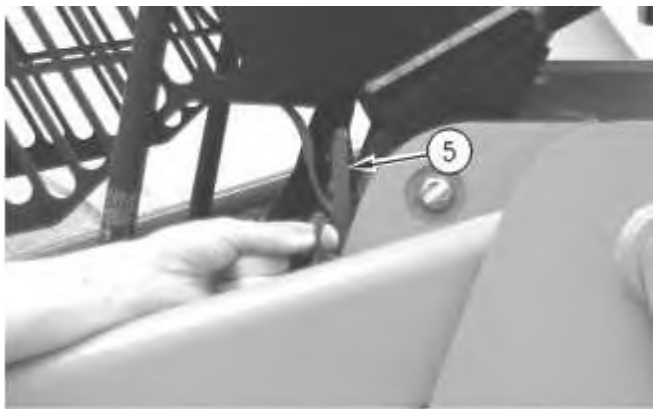


Illustration 7 g00601456



Illustration 8 g00563674

1. Tilt the cab upward.
2. Disengage cab support lever (5) .



Illustration 9 g00601528

3. Lower cab (4) .

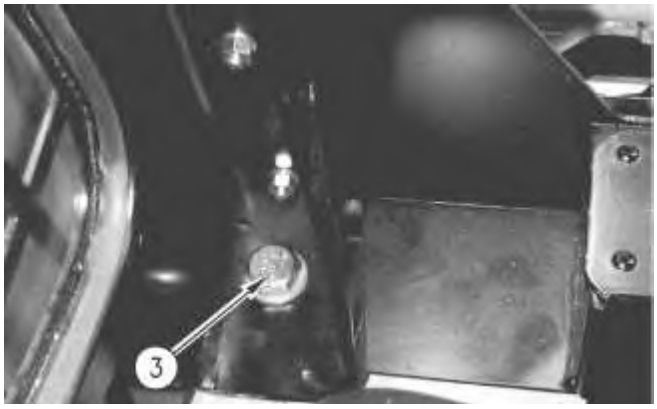


Illustration 10 g00597551

4. Install bolt (3) .



Illustration 11 g00601508

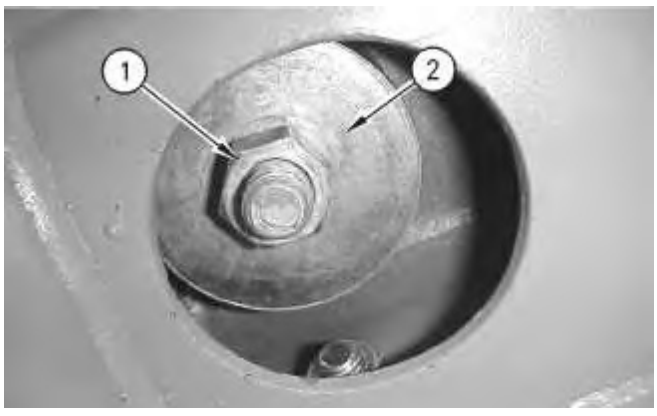


Illustration 12 g00597525

Note: Ensure that the large washer is between the nut and the rubber mounting.

5. Install large washer (2) and nut (1) from the inside of the cab. Tighten the nuts to a torque of 125 ± 10 N·m (92 ± 7 lb ft).

6. Repeat Steps 4 and 5 on the opposite side of the cab.

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i01786792

Electric Starting Motor - Remove and Install

SMCS - 1453-010

Removal procedure

Start By:

A. Disconnect battery cables. Refer to Disassembly and Assembly, "Battery and Battery Cable - Seperate and Connect".



Illustration 1 g00913999

1. Raise cover (1). Remove the nut. Remove cables (2) .



Illustration 2 g00914002

2. Remove bolts (3) and the ground cable.



Illustration 3 g00914001

3. Raise the cover. Remove screw (5). Disconnect wire (4). Remove electric starting motor (6) .

Installation Procedure



Illustration 4 g00914001

1. Connect wire (4). Install screw (5). Lower the cover.



Illustration 5 g00914002

2. Install electric starting motor (6). Install bolts (3) and the ground cable.



Illustration 6 g00913999

3. Install cables (2). Install the nut. Lower cover (1) .

End By: Connect battery cables. Refer to Disassembly and Assembly, "Battery and Battery Cable - Seperate and Connect".

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i01787862

Engine - Install

SMCS - 1000-012

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	FT-2741	Chain Assembly	1
B	159-3327	Wrench Adapter	1



Illustration 1 g00914926

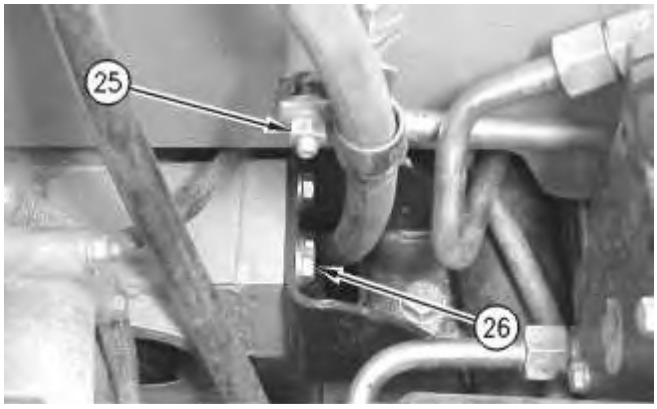


Illustration 2 g00914925

1. Install the engine. Install bolts (26). Install nut (25) .

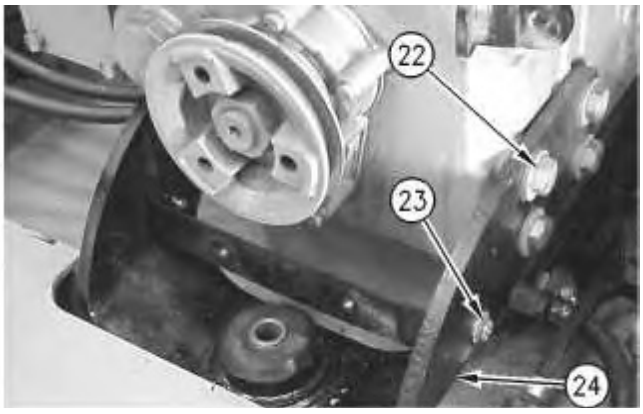


Illustration 3 g00914924

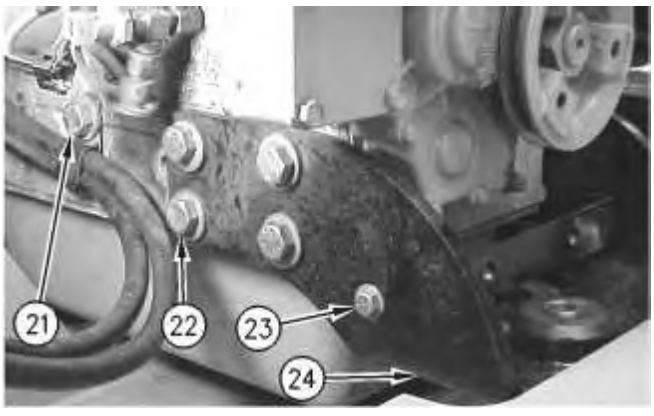


Illustration 4 g00914923

2. Install mount (24). Install bolts (22). Tighten bolts (23). Install bolt (21) .



Illustration 5 g00827933

3. Install nut (20) .

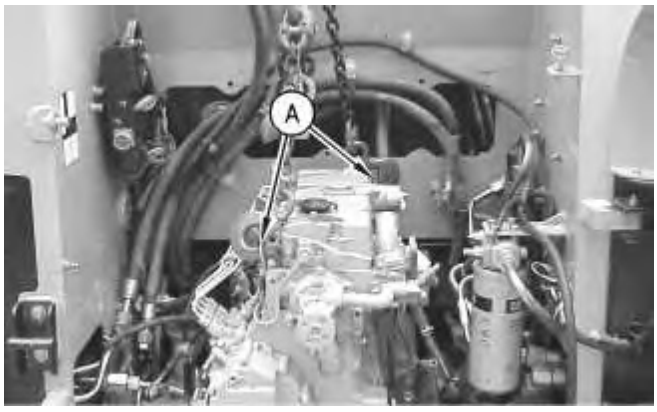


Illustration 6 g00827898

4. Remove Tooling (A) from the engine.

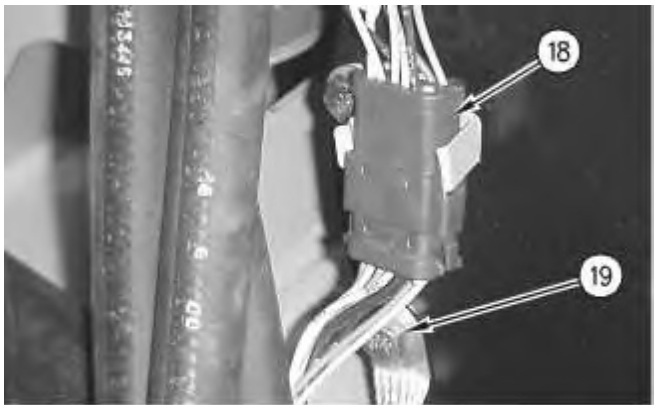


Illustration 7 g00827962

5. Install bolt (19). Connect harness assembly (18) .

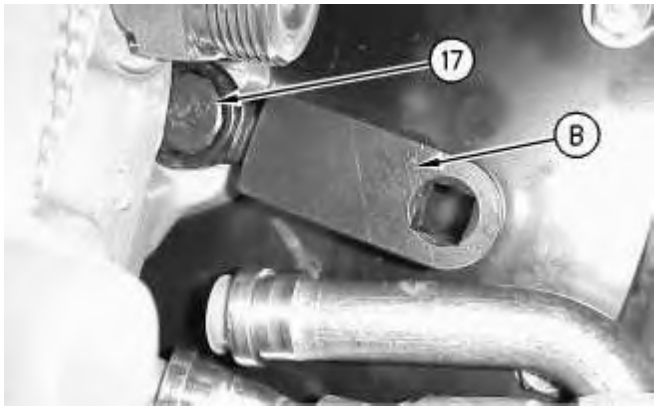


Illustration 8 g00827961

6. Install the piston pump. Install bolts (17). Use Tooling (B) to torque the bolts to 88 N·m (65 lb ft).

7. Repeat Step 6 for the other side.

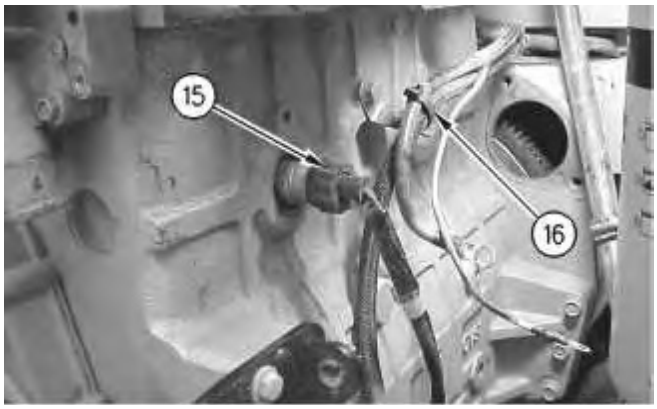


Illustration 9 g00827923

8. Install cable strap (16). Connect harness assembly (15) .

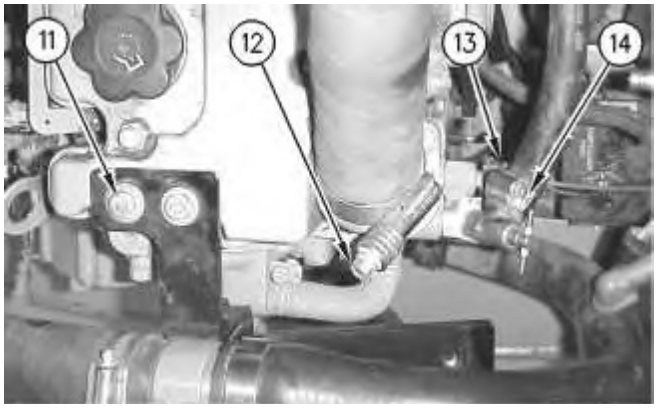


Illustration 10 g00914922

9. Install the hose. Tighten clamp (14). Connect harness assembly (13). Install the hose. Tighten clamp (12). Install bolts (11). Torque the bolts to 15 ± 3 N·m (11 ± 2 lb ft).

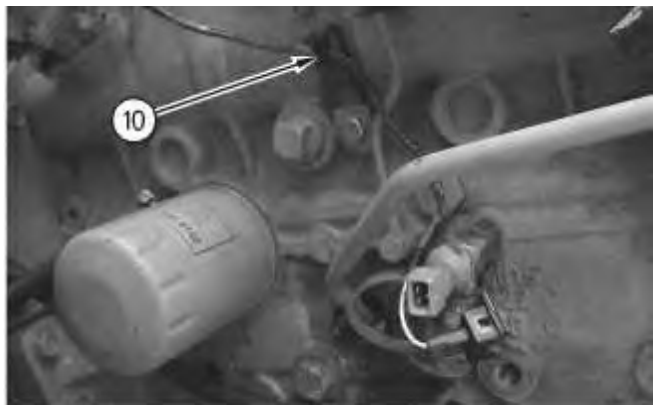


Illustration 11 g00827914

10. Install cable strap (10) .

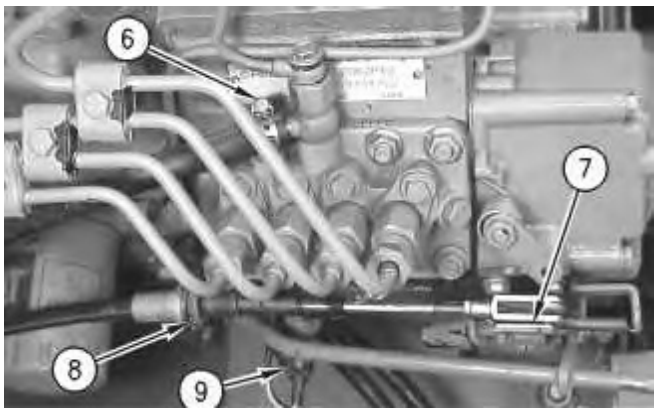


Illustration 12 g00827916

11. Connect harness assembly (9). Position governor control cable. Install clip (8). Install clip (7). Connect the hose. Tighten clamp (6) .

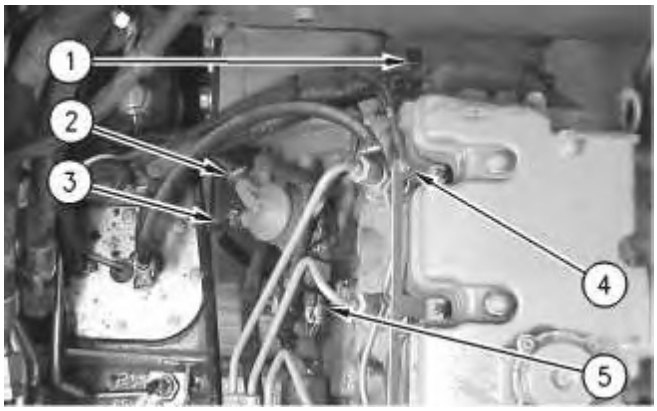


Illustration 13 g00914921

12. Connect harness assemblies (5). Install the wire. Install nut (4). Install hoses (3). Tighten clamps (2). Install cable straps (1) .

End By:

a. Tilt the cab. Refer to Disassembly and Assembly, "Cab Tilt".
b. Install the air cleaner. Refer to Disassembly and Assembly, "Air Cleaner - Remove and Install".
c. Install the starter. Refer to , "Electric Starting Motor - Remove and Install".
d. Install the alternator. Refer to Disassembly and Assembly, "Alternator - Remove and Install".
e. Install the muffler. Refer to Disassembly and Assembly, "Muffler - Remove and Install".
f. Install the radiator and hydraulic oil cooler. Refer to Disassembly and Assembly, "Radiator and Hydraulic Oil Cooler - Install".
g. Install the battery. Refer to Disassembly and Assembly, "Battery and Battery Cable - Seperate and Connect".

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