CATERPILLAR

Service Manual

236B SKID STEER LOADER

Printed by Heavy Equipment Manuals **Printed in U.S.A**
v2.20

Heavy Equipment Manuals

Product: SKID STEER LOADER
Model: 236B SKID STEER LOADER HEN07630
Configuration: 236B2 Skid Steer Loader HEN06750-UP (MACHINE) POWERED BY 3044C Engine

Disassembly and Assembly
236B, 246B, 246C, 252B, 256C, 262B, 262C, 262C2 and 272C
Skid Steer Loaders Engine Supplement

Media Number -KENR5114-03 **Publication Date -01/04/2011** **Date Updated -19/04/2011**

i02667975

Air Cleaner - Remove and Install

SMCS - 1051-010

Removal Procedure

1. Tilt the radiator. Refer to Operation and Maintenance Manual, "Radiator Tilting".

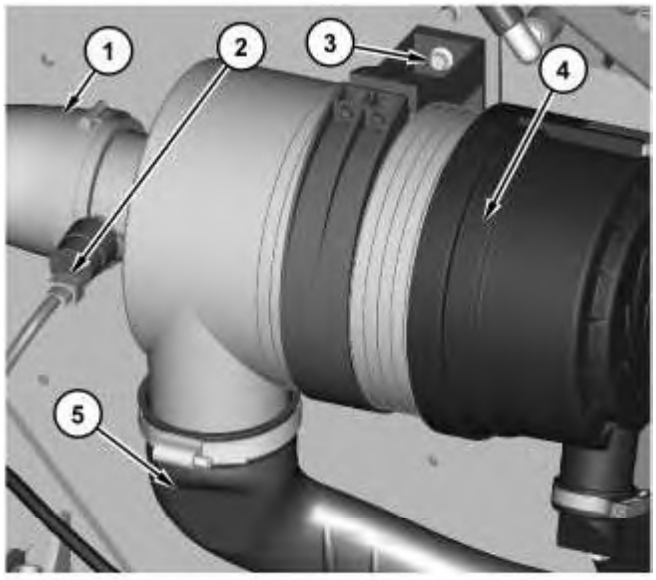


Illustration 1 g01340815

2. Disconnect harness assembly (2). Disconnect hoses (1) and (5). Remove bolts (3) and air cleaner (4) .

Installation Procedure

1. Tilt the radiator. Refer to Operation and Maintenance Manual, "Radiator Tilting".

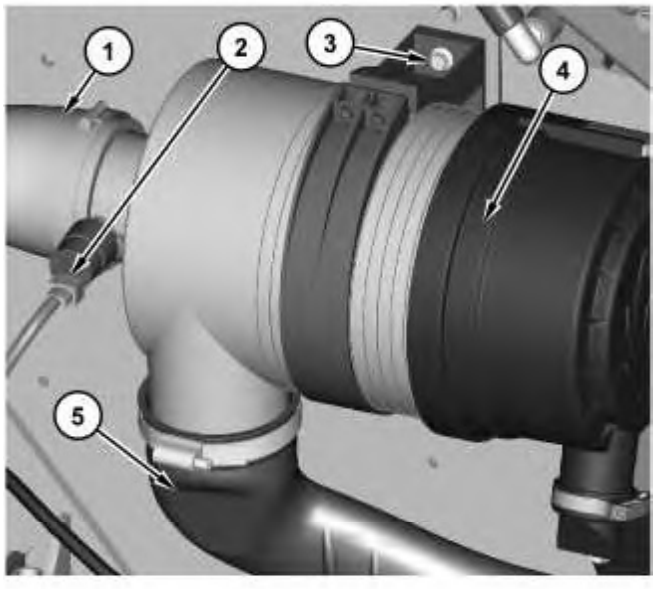


Illustration 2 g01340815

2. Position air cleaner (4) and install bolts (3). Connect hoses (1) and (5). Connect harness assembly (2) .
3. Tilt the radiator back to the original position. Refer to Operation and Maintenance Manual, "Radiator Tilting".

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i03037625

Alternator - Remove and Install

SMCS - 1405-010

S/N - HEN1-UP

S/N - PAT1-UP

S/N - PDT1-UP

S/N - SCP1-UP

Removal Procedure

Start By:

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

Note: The muffler has been removed for clarity.

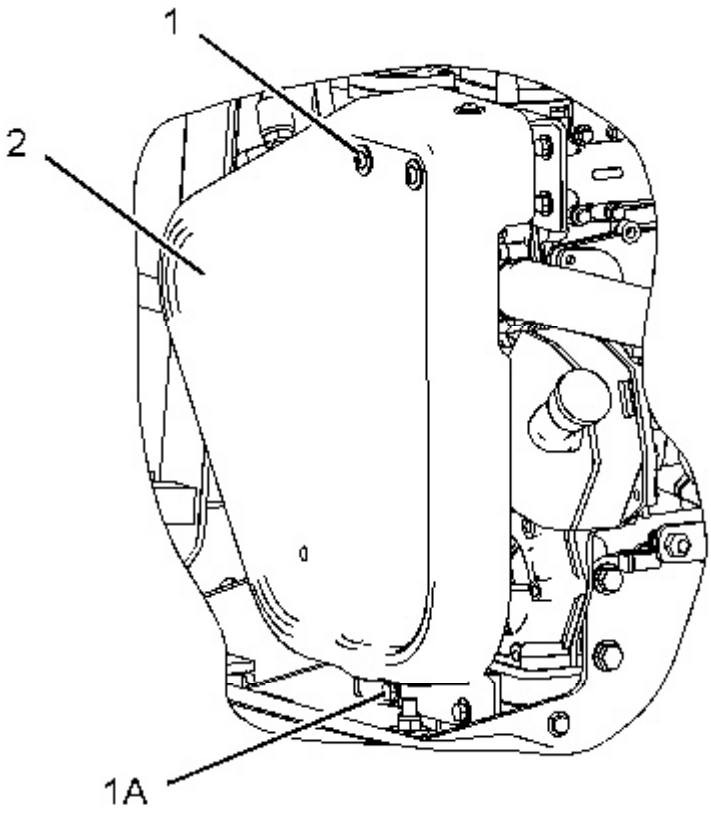


Illustration 1 g01541413

1. Remove bolts (1A) and screws (1) . Remove cover (2) .

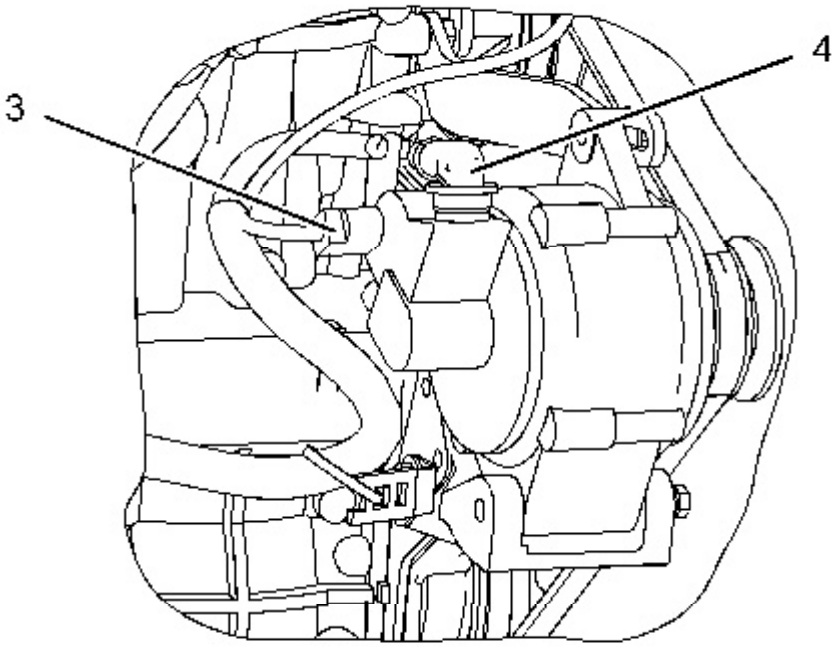


Illustration 2 g01038433

2. Disconnect harness assembly (3) . Raise the boot and disconnect harness assembly (4) .

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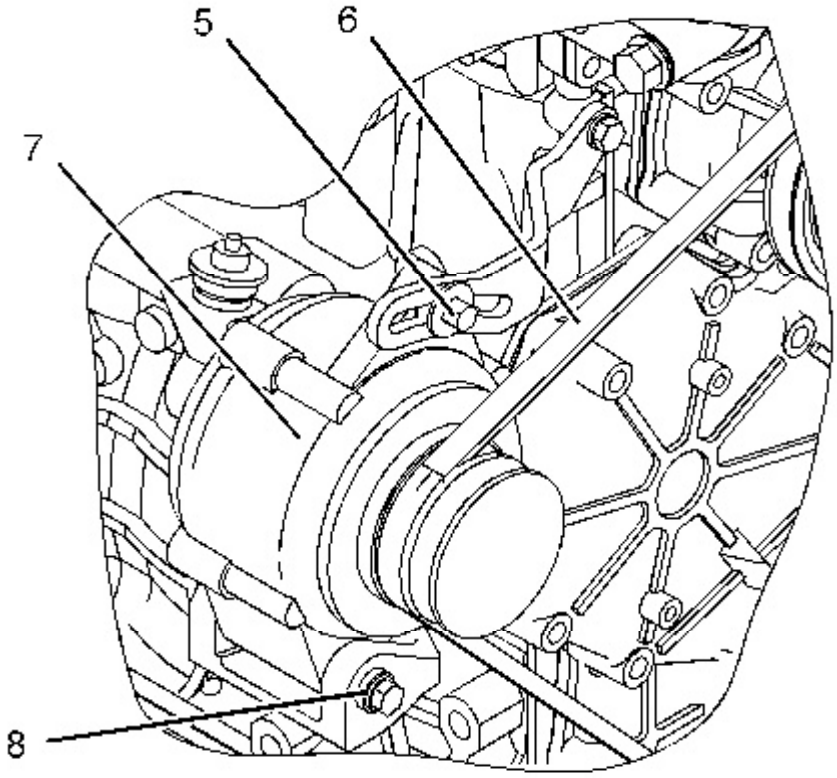


Illustration 3 g01038438

3. Loosen bolts (5) and (8) . Remove belt (6) and remove alternator (7) .

Installation Procedure

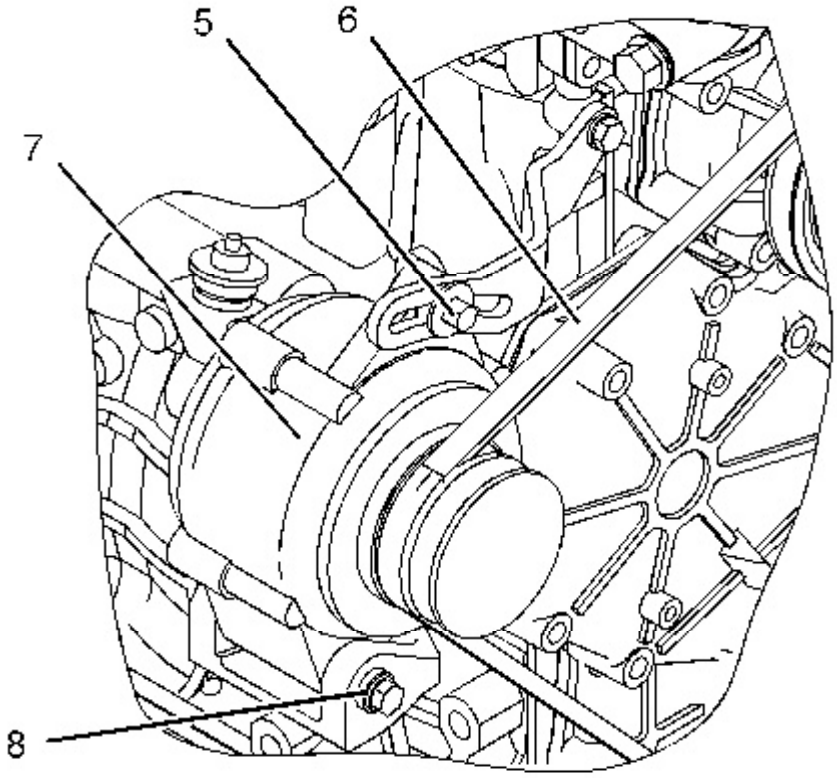


Illustration 4 g01038438

1. Install alternator (7) . Install belt (6) . Refer to Operation and Maintenance Manual, "Belt - Inspect/Adjust/Replace" for more information. Tighten bolts (5) and (8) .

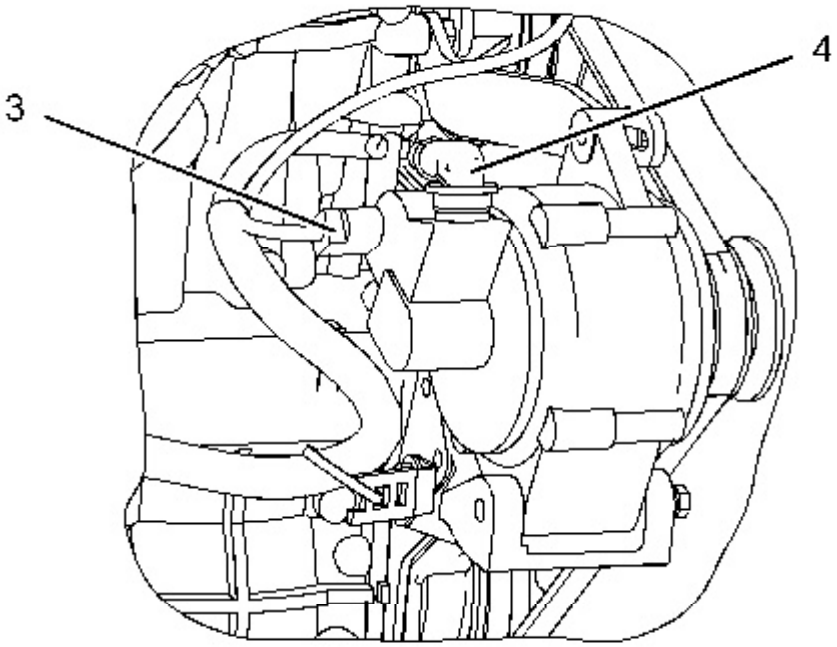


Illustration 5 g01038433

2. Connect harness assembly (3) . Raise the boot and connect harness assembly (4) .

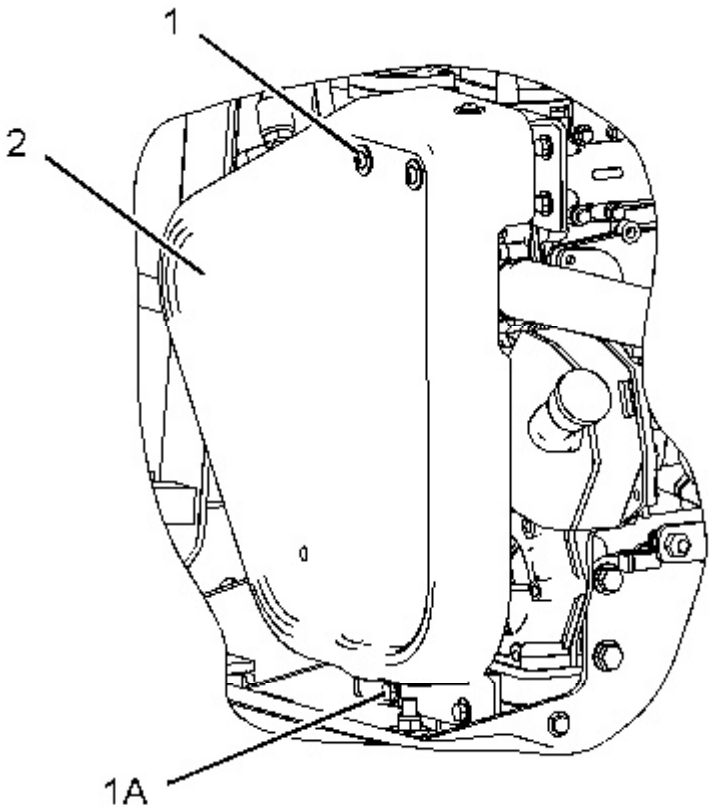


Illustration 6 g01541413

3. Install cover (2) and install screws (1) . Tighten screws (1) to a torque of 6 ± 1 N·m (53 ± 9 lb in).

4. Install bolts (1A) . Tighten bolts (1A) to a torque of 15 ± 3 N·m (11 ± 2 lb ft).

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

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Media Number -KENR5114-03 **Publication Date -01/04/2011** **Date Updated -19/04/2011**

i02156742

Battery and Battery Cable - Separate and Connect

SMCS - 1401-029-KA

S/N - HEN1-UP

S/N - PAT1-UP

S/N - PDT1-UP

S/N - SCP1-UP

Removal Procedure

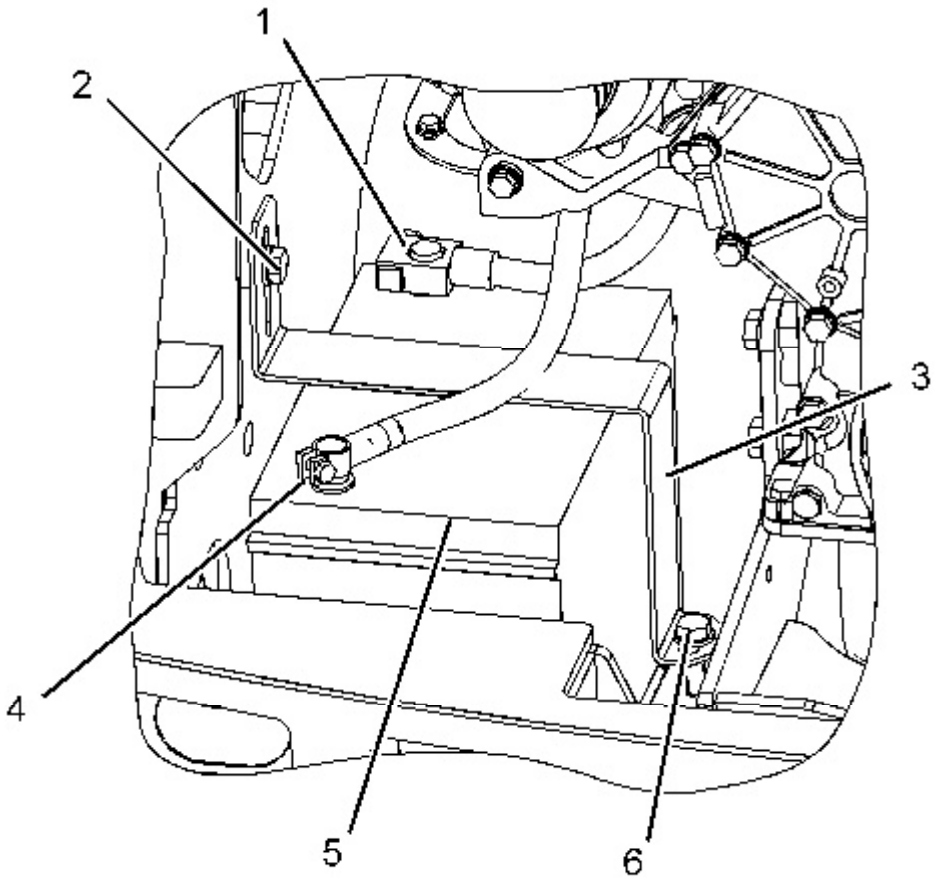


Illustration 1 g01041274

1. Disconnect negative battery cable (4) .
2. Disconnect positive battery cable (1) .
3. Remove bolts (2) and (6). Remove clamp (3) and remove battery (5). The weight of the battery is approximately 18 kg (40 lb).

Installation Procedure

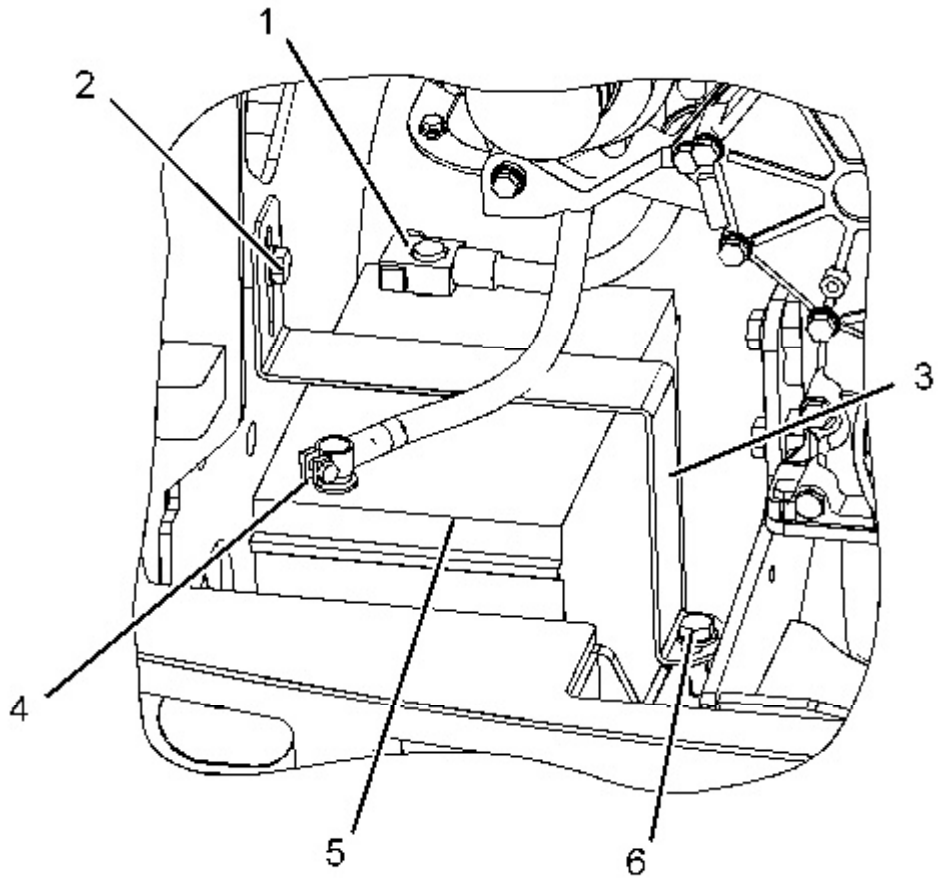


Illustration 2 g01041274

1. Install battery (5). The weight of the battery is approximately 18 kg (40 lb). Install clamp (3). Install bolts (2) and (6) .
2. Connect positive battery cable (1) .
3. Connect negative battery cable (4) .

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i02038431

Cab - Tilt

SMCS - 7301-084

S/N - HEN1-UP

S/N - PAT1-UP

S/N - PDT1-UP

S/N - SCP1-UP

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.

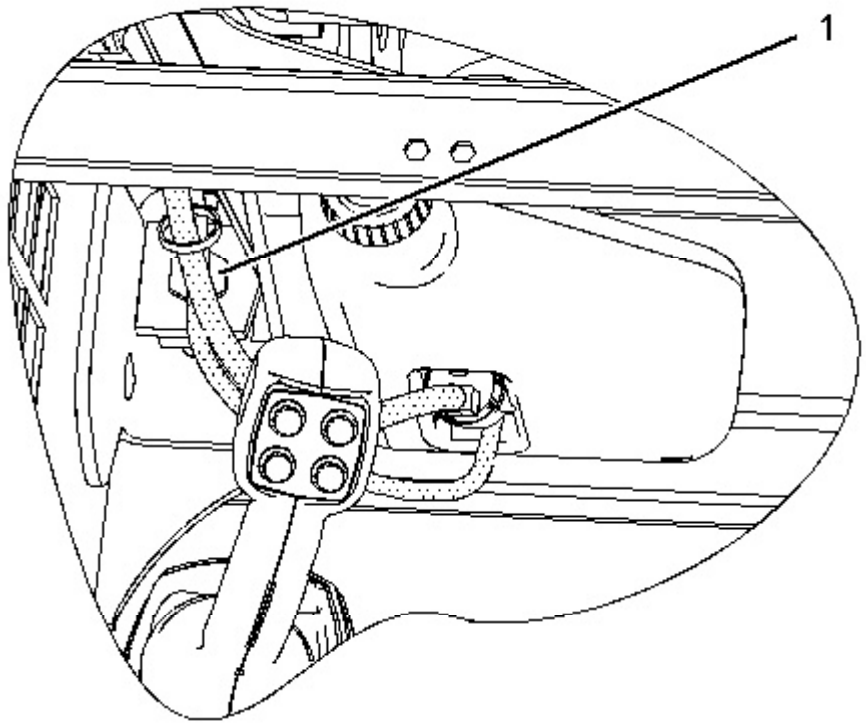


Illustration 1 g01049069

1. Loosen bolt (1) .

   Note: Bolt (1) will be retained in the cab.

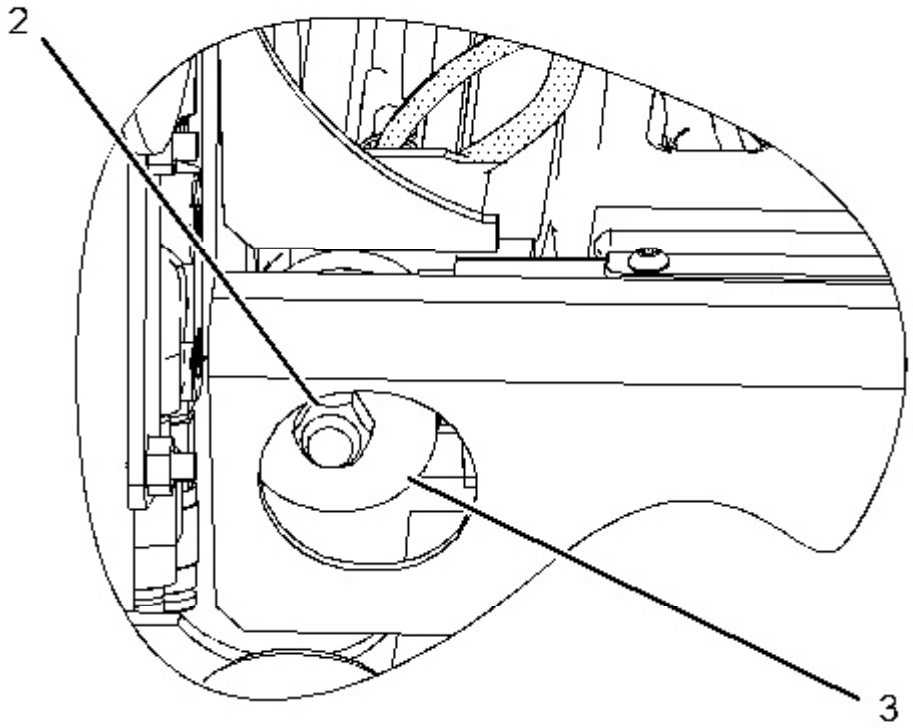


Illustration 2 g01049070

2. Remove nut (2) and large washer (3) from the inside of the cab.
3. Repeat Steps 1 and 2 on the opposite side of the cab.

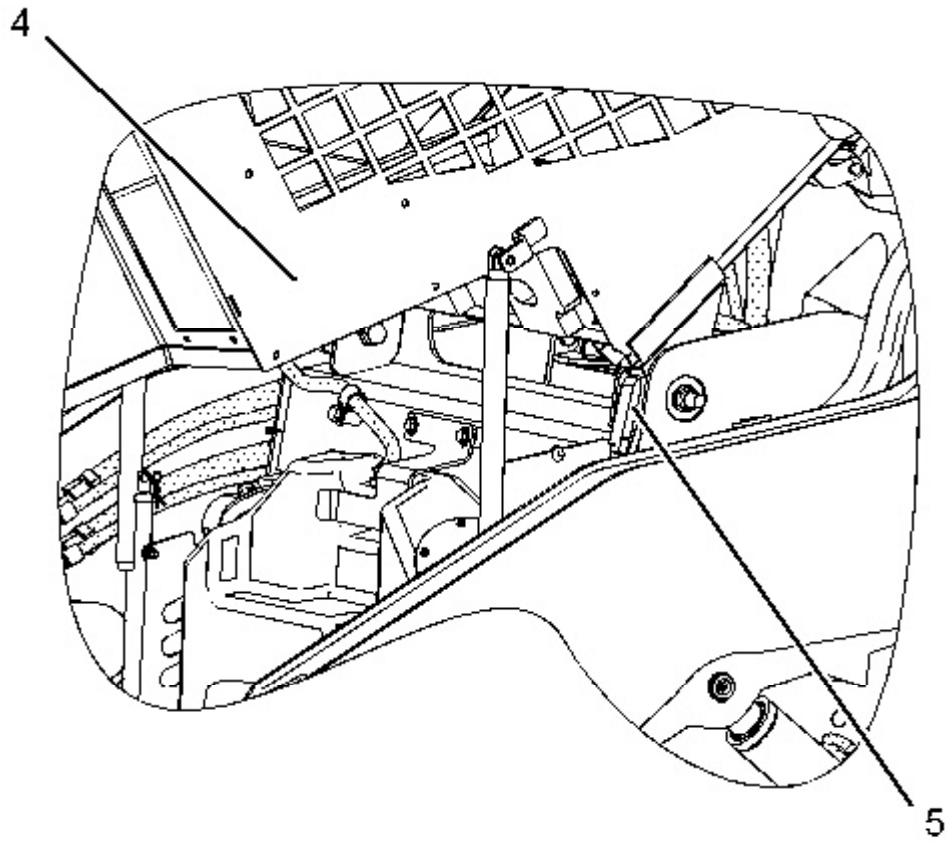


Illustration 3 g01049074

4. Raise cab (4) .



Illustration 4 g00563598

5. Engage cab support lever (5) .

Lower Procedure

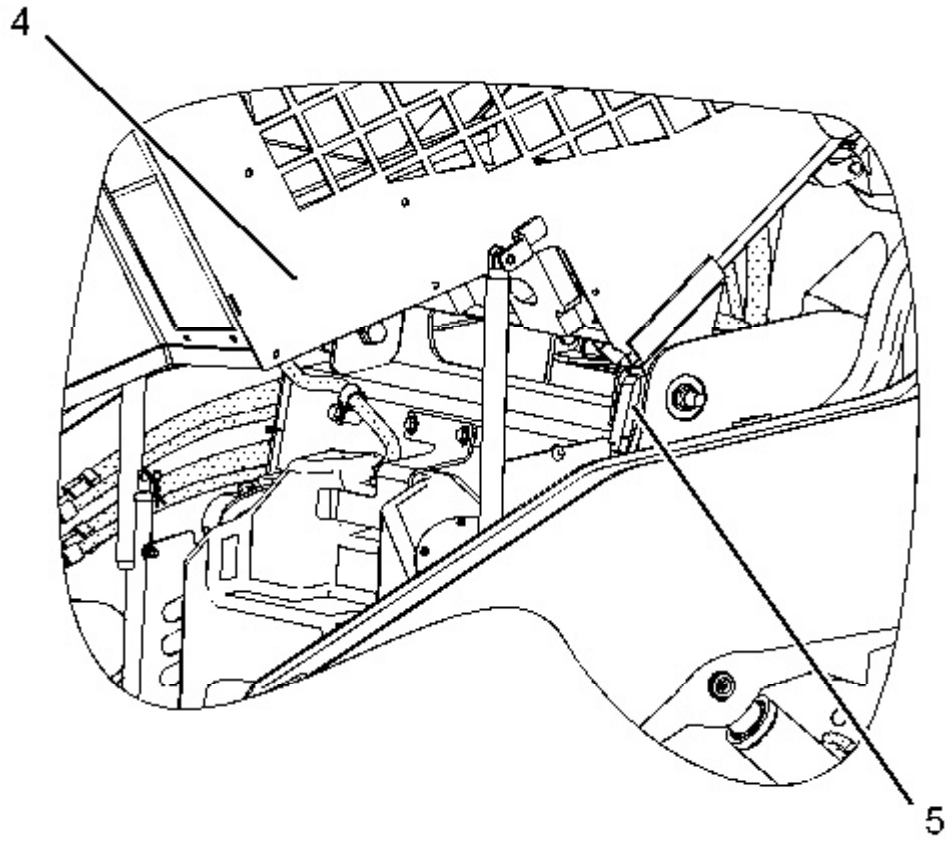


Illustration 5 g01049074



Illustration 6 g00563674

1. Tilt the cab upward.
2. Disengage cab support lever (5) .
3. Lower cab (4) .

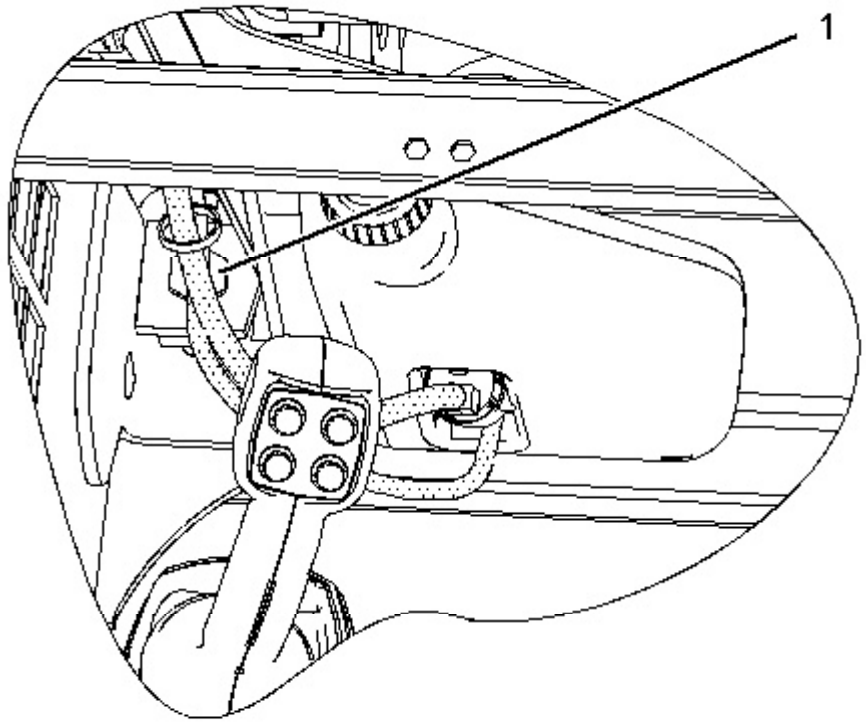


Illustration 7 g01049069

4. Align bolt (1) .

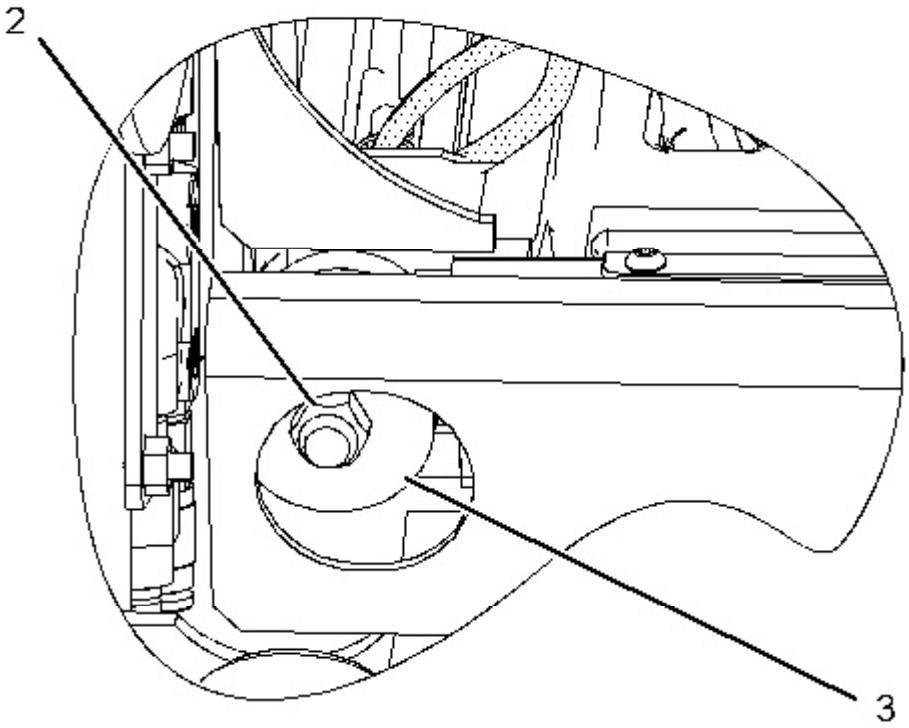


Illustration 8 g01049070

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

5. Install large washer (3) and nut (2) 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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i02014524

Electric Starting Motor - Remove and Install

SMCS - 1453-010

S/N - HEN1-UP

S/N - PAT1-UP

S/N - PDT1-UP

S/N - SCP1-UP

Removal Procedure

Start By:

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

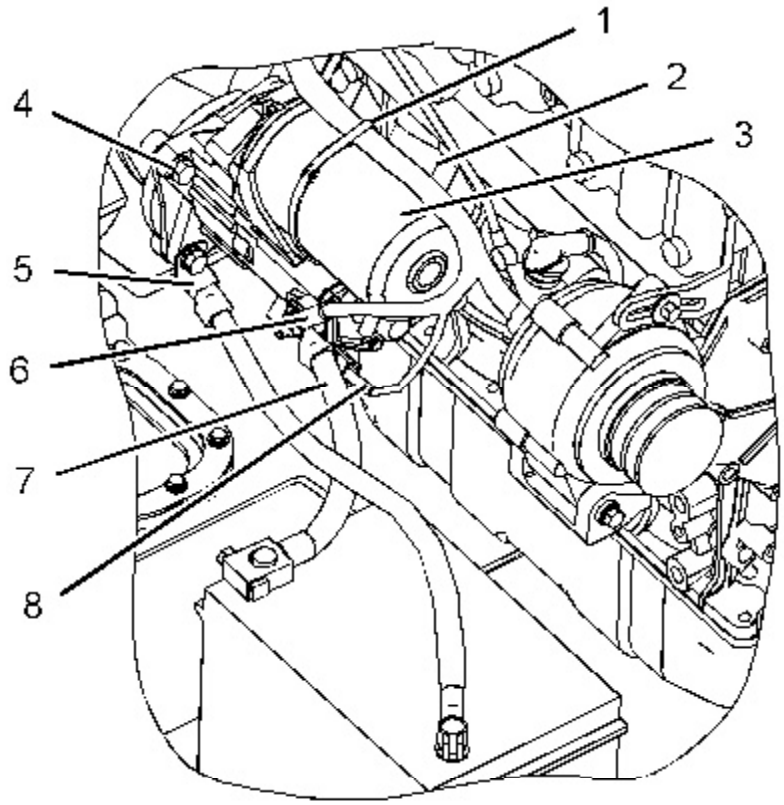


Illustration 1 g01041496

1. Disconnect cable assemblies (5), (6) and (7) .
2. Disconnect harness assembly (8) and cut cable strap (1) .
3. Remove bolts (4) and remove electric starting motor (3) and heat shield (2) .

Installation Procedure

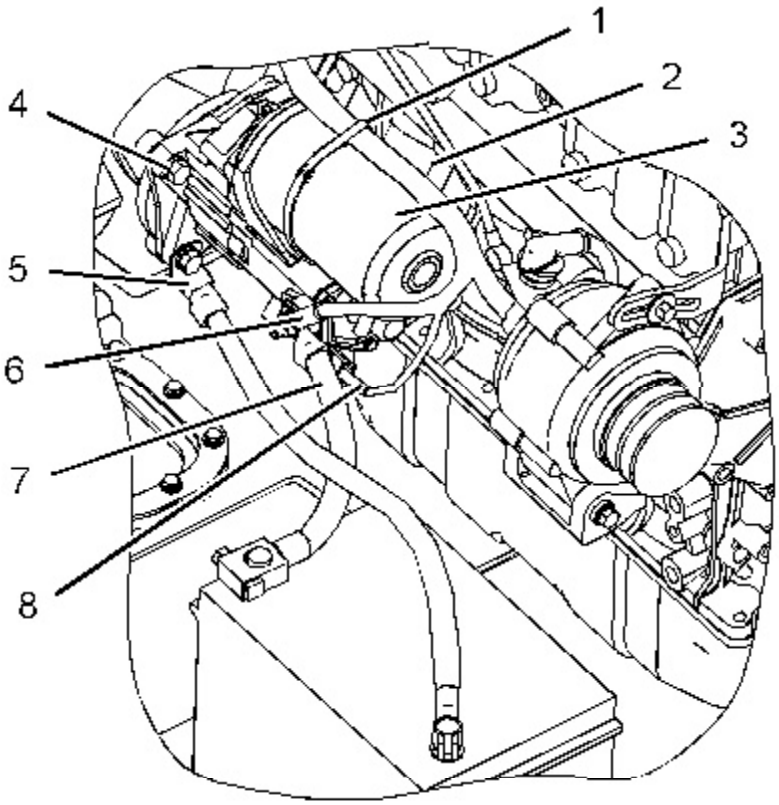


Illustration 2 g01041496

1. Install electric starting motor (3) and heat shield (2). Install bolts (4).
2. Connect harness assembly (8) and install cable strap (1) .
3. Connect cable assemblies (5), (6) and (7) .

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

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i04351952

Engine - Install

SMCS - 1000-012

S/N - HEN1-UP

S/N - PAT1-UP

S/N - PDT1-UP

S/N - SCP1-UP

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Description**	**Qty**
A	8T-4184	Bolt	2
	8T-4225	Washer	2
	8T-4244	Nut	4
	138-7575	Link Bracket	2
B	1U-9200	Lever Puller Hoist	1
C	368-0005	C-Frame Assembly	1
D	138-7575	Link Bracket	4
E	138-7573	Link Bracket	1

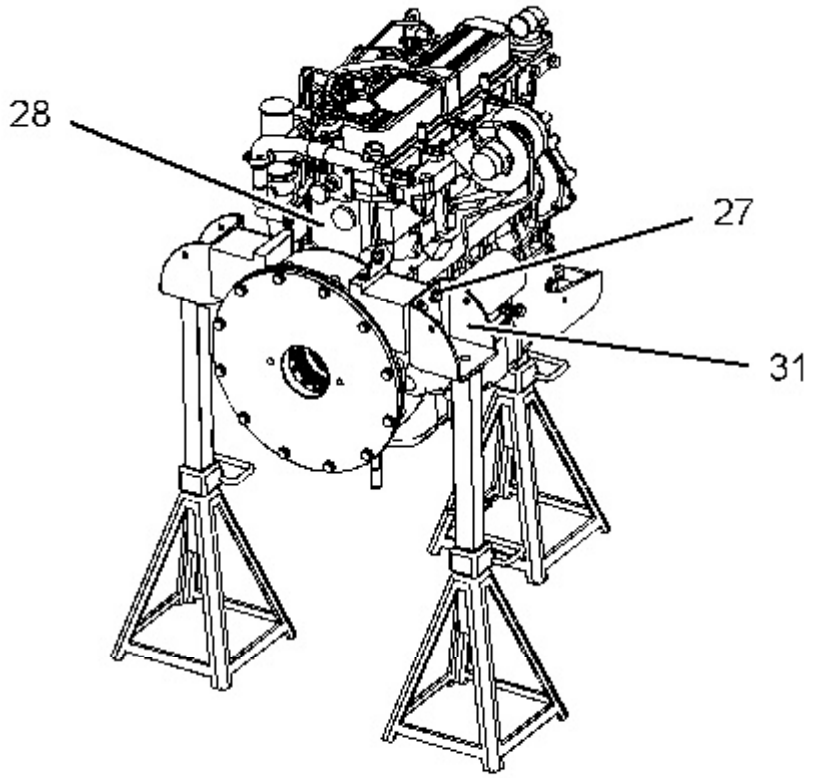


Illustration 1 g01040665

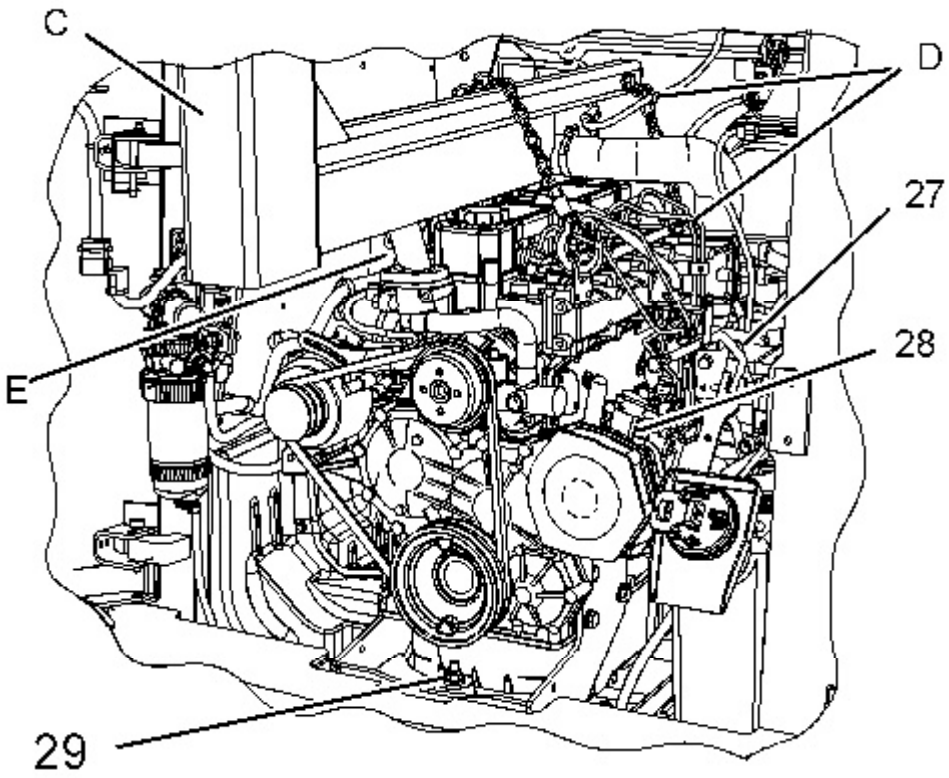


Illustration 2 g02024973

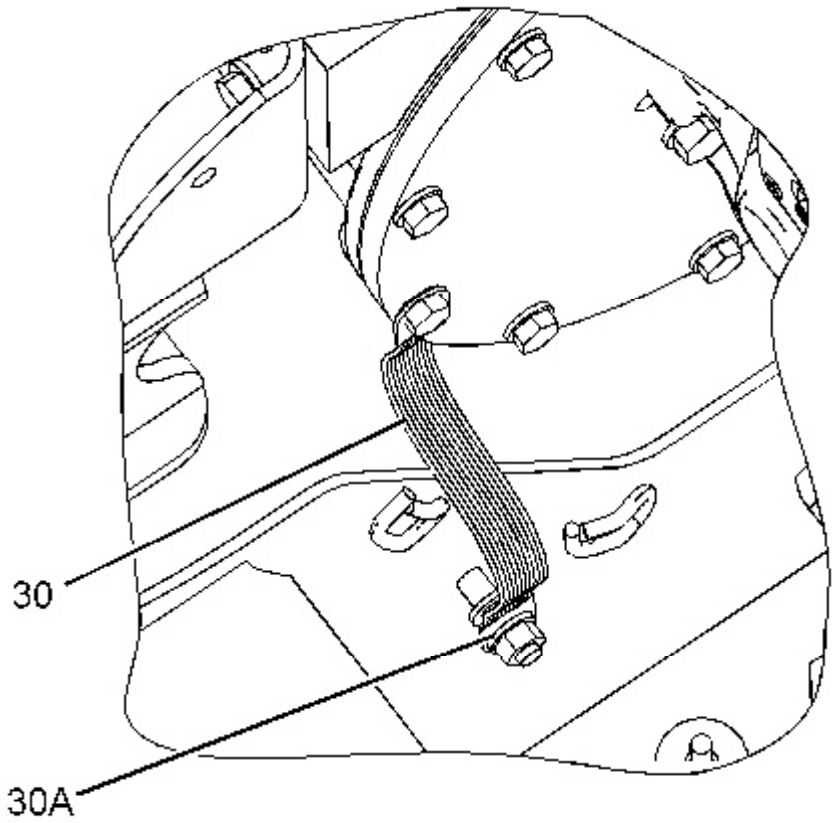


Illustration 3 g01040657

1. Attach Tooling (C) , Tooling (D) , Tooling (E) , and a suitable lifting device to engine (28) . The approximate weight of engine (28) is 320 kg (700 lb). Remove both brackets (31) that are used for mounting the engine.

2. Install the engine. Install the engine far enough so that ground strap (30) can be connected. Connect ground strap (30) and install the nut and washer (30A) . Reposition brackets (31) onto the machine and install bolts (27) . Install bolt (29) . Tighten bolt (29) to a torque of 90 ± 10 N·m (66 ± 7 lb ft).

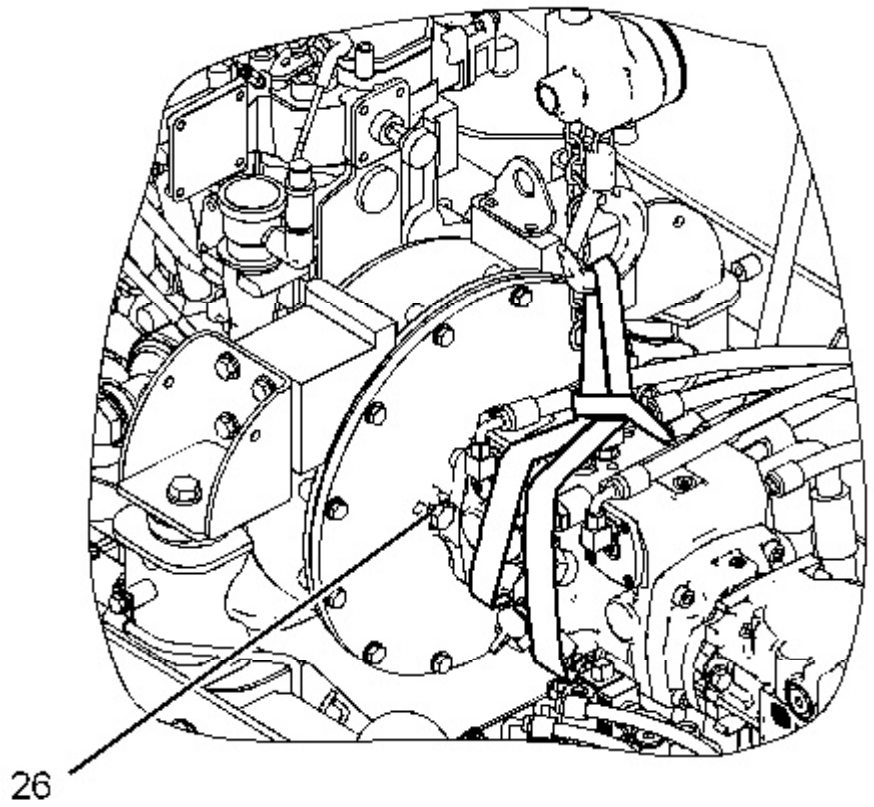


Illustration 4 g01040557

3. Install two bolts (26) by using Tooling (C) .

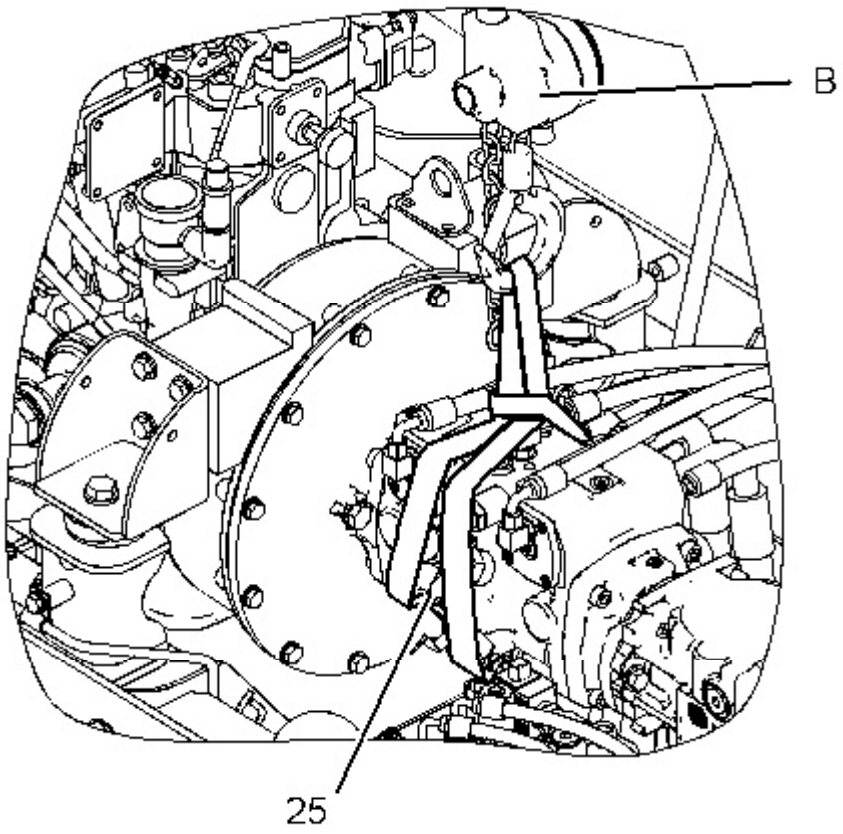


Illustration 5 g01040555

4. Remove the suitable lifting device from pump (25) . Remove Tooling (A) and Tooling (B) .

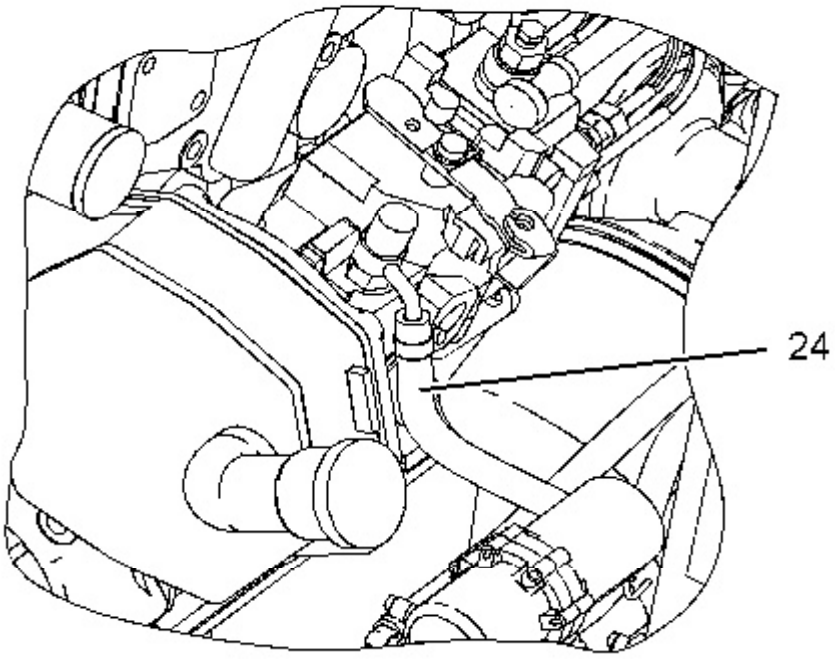


Illustration 6 g01040545

5. Connect hose assembly (24) .

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