

Product: EXCAVATOR

Model: 325C EXCAVATOR DTF

Configuration: 325C Material Handler DTF00001-UP (MACHINE) POWERED BY 3126 Engine

Disassembly and Assembly 325C Excavator 3126B Engine Supplement

Media Number -REN5368-03

Publication Date -01/04/2007

Date Updated -19/04/2007

i01924946

Alternator - Remove and Install - Engine in Chassis

SMCS - 1405-010

Removal Procedure

Note: Put identification marks on all wires for installation purposes.

1. Disconnect the positive battery terminal. This will prevent any damage to the wiring or the alternator.
-

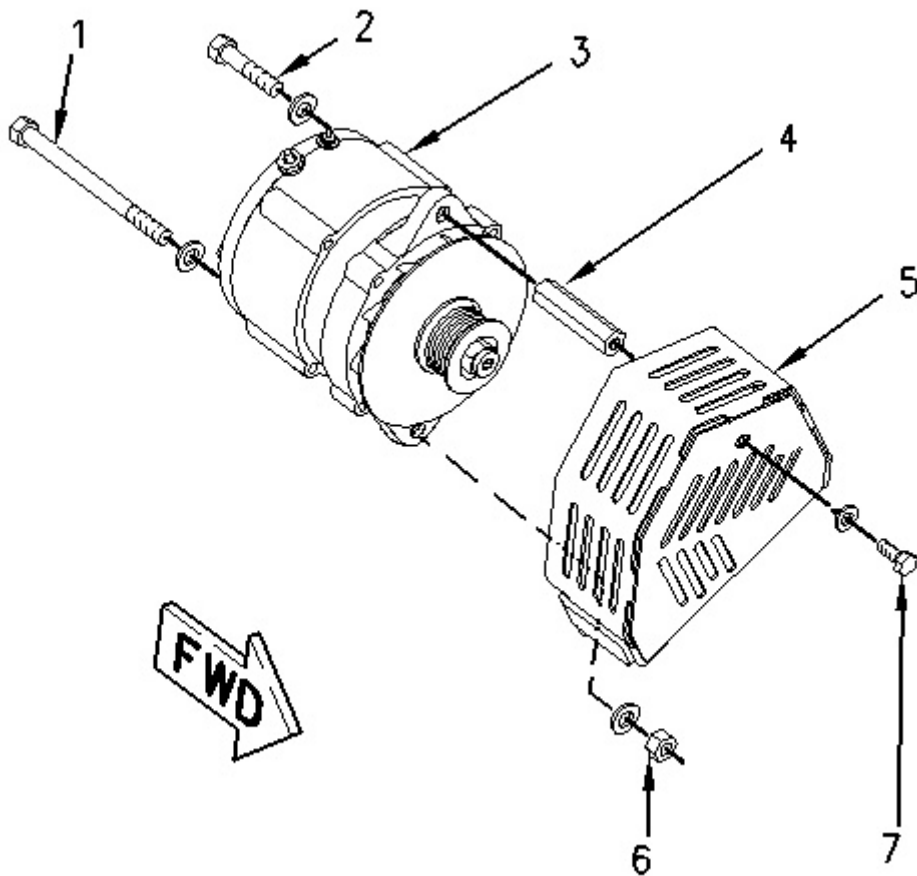


Illustration 1

g01003392

The above Illustration is a reference for the following steps.

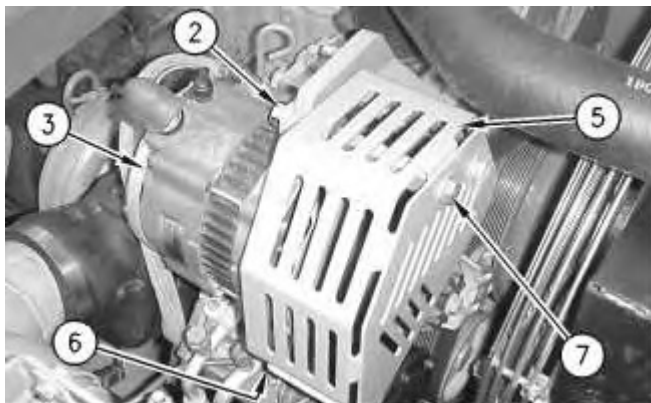


Illustration 2

g01003456

2. Remove bolt (7) .
3. Remove nut (6) from lower bolt (1) on alternator (3). Do not remove bolt (1) at this time.
4. Remove guard (5) .

5. Remove spacer (4) and bolt (2) .



Illustration 3

g01003460

6. Remove belt (8) from the alternator.

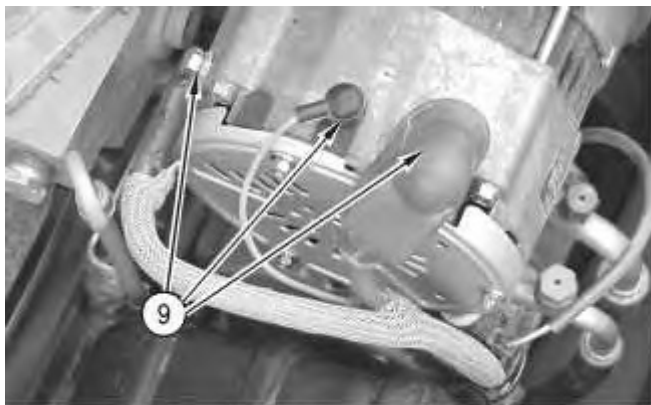
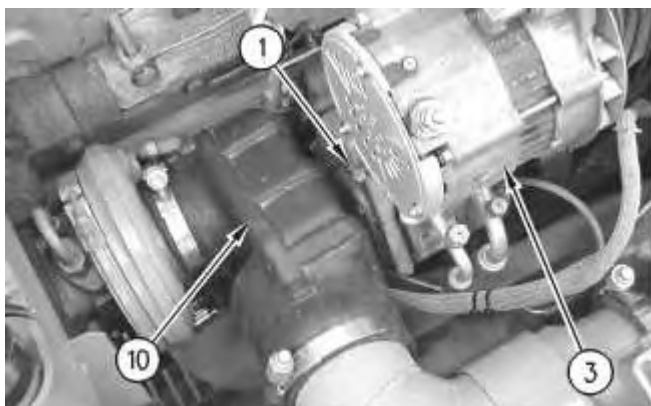


Illustration 4

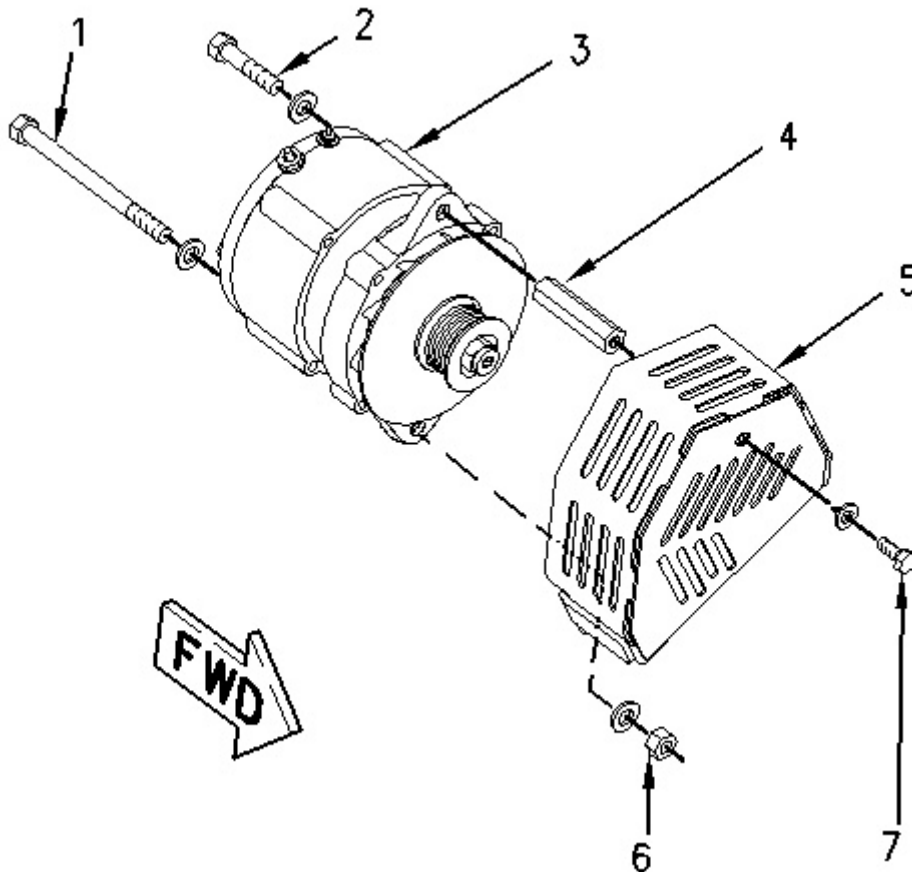
g01003492

7. Disconnect cable assemblies (9) .



8. Remove rubber boot (10) .
9. Remove lower bolt (1) and alternator (3) .

Installation Procedure



The above Illustration is a reference for the following steps.

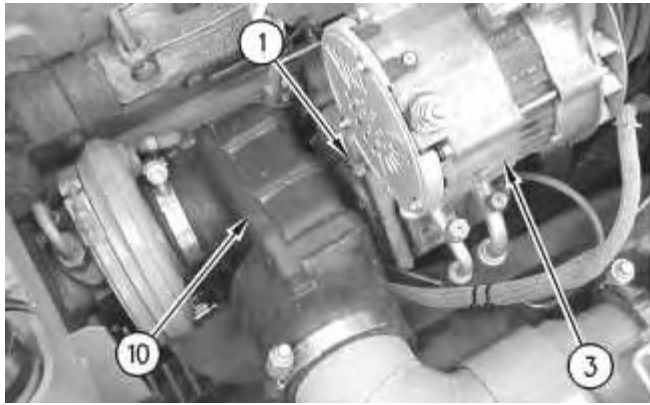


Illustration 7

g01001819

1. Position alternator (3) and install lower bolt (1) .
2. Install boot (10) .

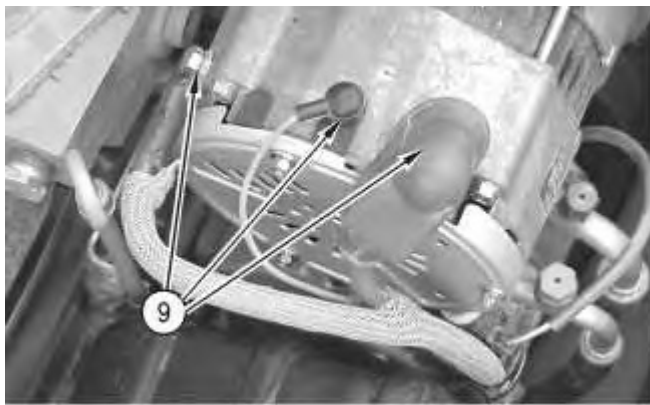


Illustration 8

g01003492

3. Connect cable assemblies (9) to the original locations that were noted during the removal procedure.



4. Install belt (8) on the alternator.

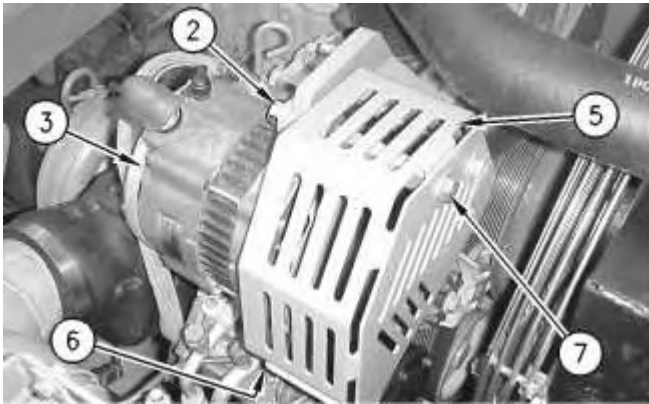


Illustration 10

5. Install bolt (2) and spacer (4). Refer to Illustration 6.
 6. Position guard (5) .
 7. Install bolts (7) .
 8. Install nut (6) on lower bolt (1) on alternator (3). Refer to Illustration 6.
 9. Connect the positive battery terminal.
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i01925121

Electric Starting Motor - Remove and Install - Engine in Chassis

SMCS - 1453-010

Removal Procedure

1. Move the battery disconnect switch to the OFF position.
2. Disconnect the battery cable on the positive terminal of the battery. Move the battery cable away from the terminal.
3. Put identification marks on all harness assemblies and on all wires for installation purposes.



Illustration 1

g00787887

4. Remove nut (1). Remove ground strap (2) from the electric starting motor.

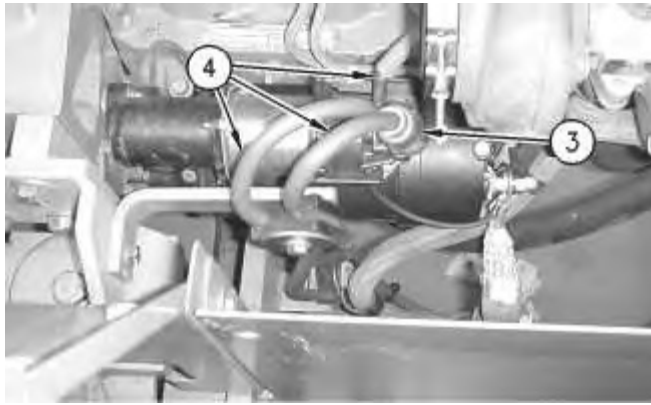


Illustration 2

g00787897

5. Raise the rubber boot and remove nut (3). Remove cable assemblies (4) from the electric starting motor.

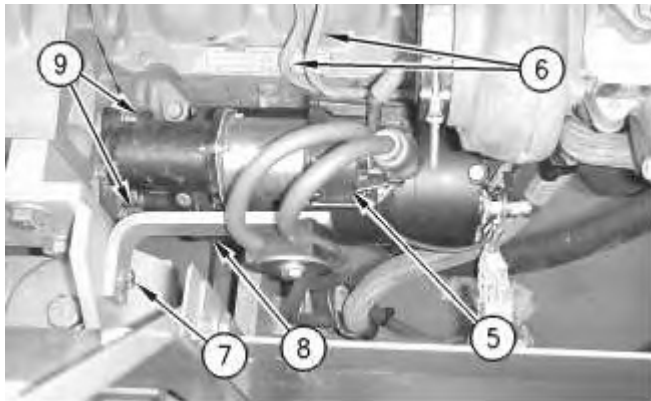
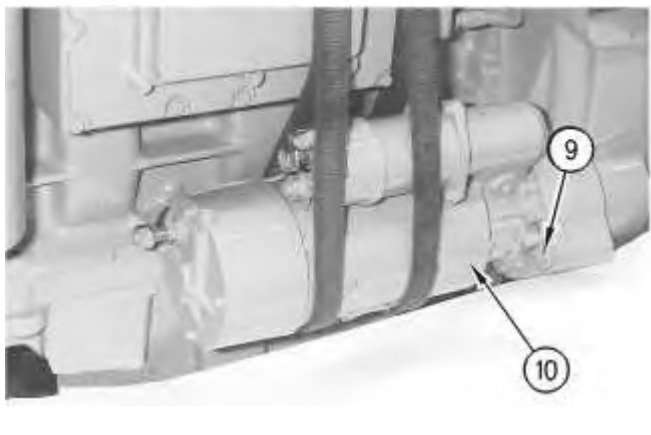


Illustration 3

g00787949

6. Remove the small nut and cover (5). Remove wires (6).
7. Remove bolt (7). Move bracket (8) to the side.



Typical example

8. Fasten a suitable lifting device to electric starting motor (10). The weight of the electric starting motor is approximately 29 kg (65 lb).
9. Remove bolts (9). Remove electric starting motor (10) from the flywheel housing.

Installation Procedure

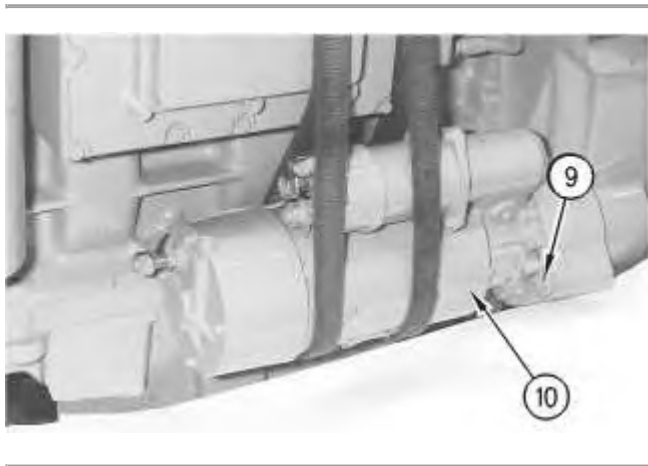


Illustration 5

g00886798

1. Fasten a suitable lifting device to electric starting motor (10). The weight of the electric starting motor is approximately 29 kg (65 lb).
2. Place electric starting motor (10) in the flywheel housing. Install bolts (9) .

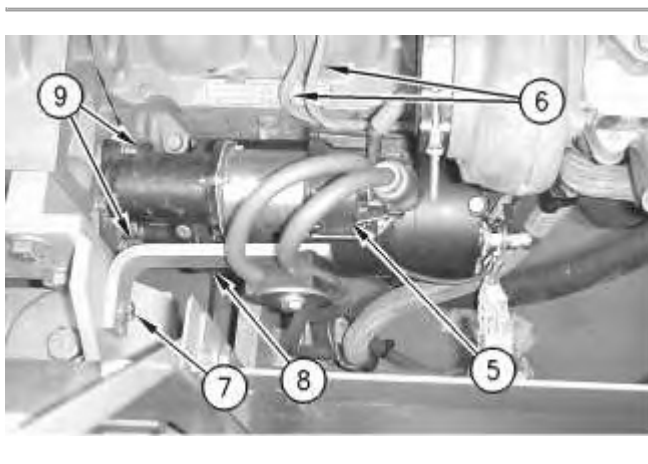


Illustration 6

g00787949

3. Install bracket (8) in position. Secure bracket (8) with bolt (7) .

4. Install wires (6). Install cover (5). Secure cover (5) with small nut.

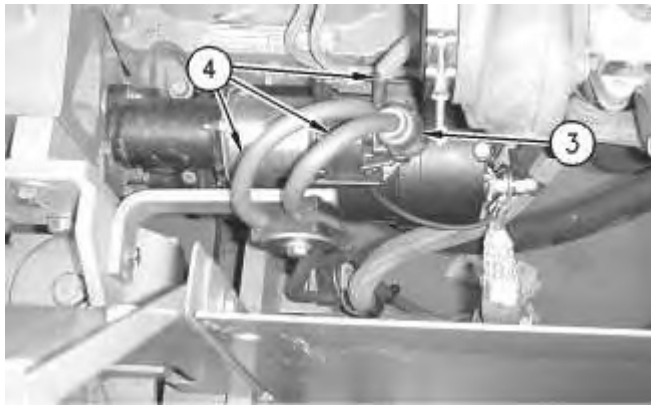


Illustration 7

g00787897

5. Install cable assemblies (4). Secure wires (4) with nut (3). Install the rubber boot on nut (3) .

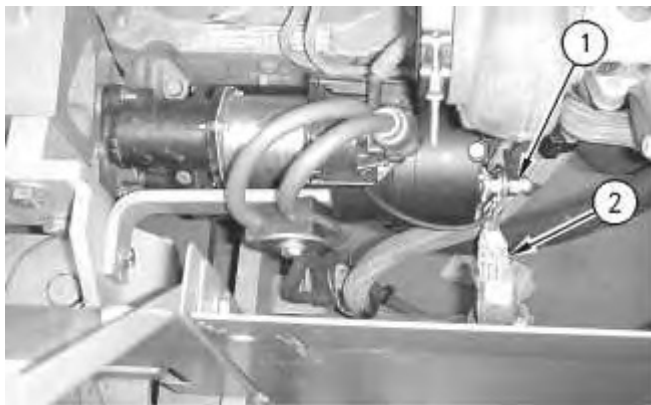


Illustration 8

g00787887

6. Install ground strap (2). Secure ground strap (2) with nut (1) .
 7. Connect the battery terminals.
 8. Move the battery disconnect switch to the ON position.
-

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i01884773

Fuel Filter (Primary) and Fuel Filter Base - Remove and Install

SMCS - 1261-010; 1262-010

Removal Procedure



WARNING

Fuel leaked or spilled onto hot surfaces or electrical components can cause a fire. To help prevent possible injury, turn the start switch off when changing fuel filters or water separator elements. Clean up fuel spills immediately.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: Put identification marks on all hoses, on all hose assemblies, on all wires, and on all tube assemblies for installation purposes. Plug all hose assemblies and all tube assemblies. This helps to prevent fluid loss, and this helps to keep contaminants from entering the system.

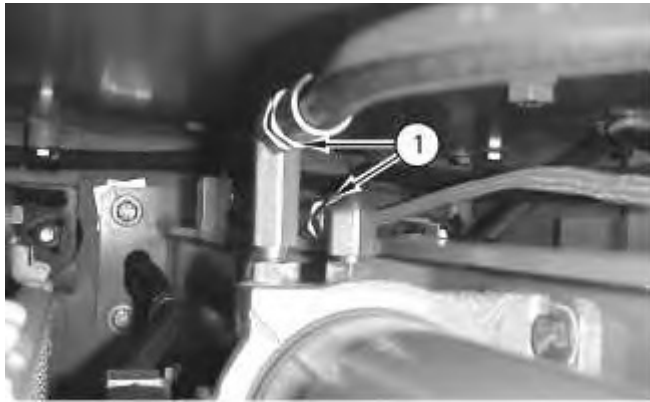


Illustration 1

g00976401

1. Disconnect hose assemblies (1) .

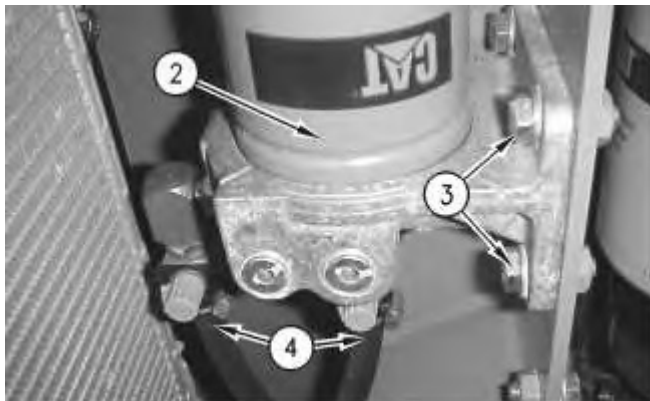


Illustration 2

g00976403

2. Disconnect hoses (4) .
3. Remove bolts (3) and remove fuel filter and base (2) .

Installation Procedure



Fuel leaked or spilled onto hot surfaces or electrical components can cause a fire. To help prevent possible injury, turn the start switch off

when changing fuel filters or water separator elements. Clean up fuel spills immediately.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

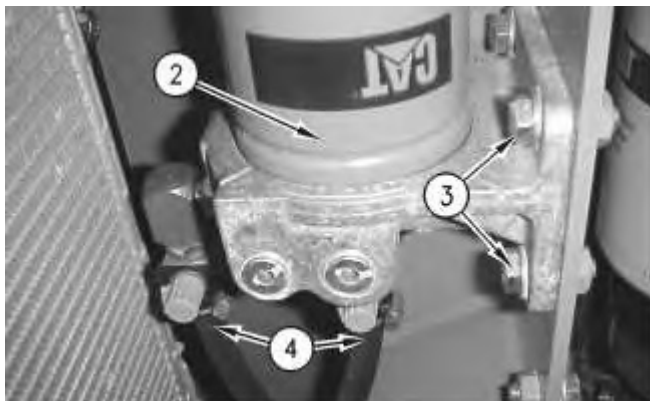


Illustration 3

g00976403

1. Position fuel filter and base (2) .
 2. Install bolts (3) .
 3. Connect hoses (4) .
-

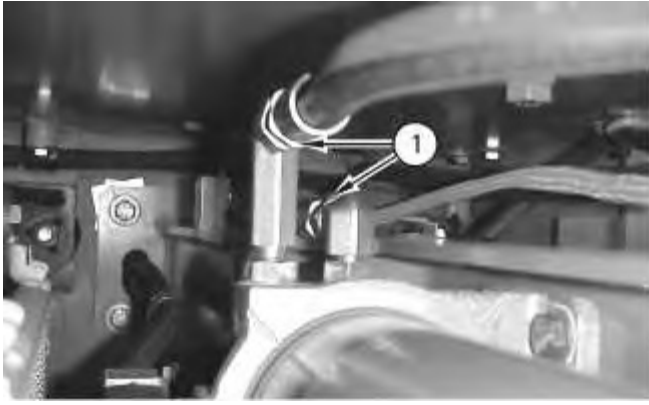


Illustration 4

g00976401

4. Connect hose assemblies (1) .
-

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i01925166

Water Separator - Remove and Install

SMCS - 1263

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	2P-8250	Strap Wrench As	1

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

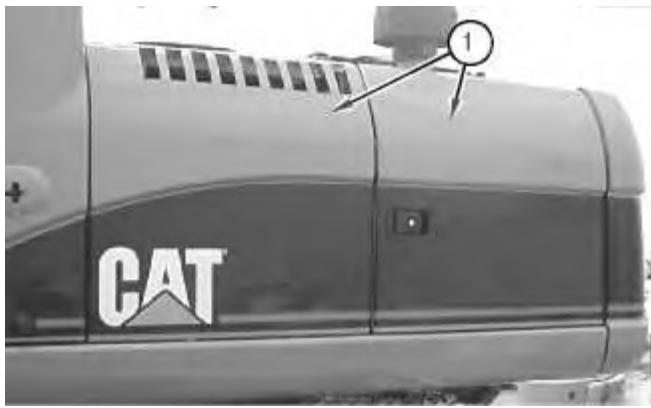


Illustration 1

g01001895

1. Open left side access doors (1) .



Illustration 2

g00860593

2. Place a suitable container under drain hose (3) of the water separator.
3. Turn drain valve (2) counterclockwise in order to open. Drain the contents of the water separator.
4. Close the drain valve.
5. Loosen the hose clamp and disconnect drain hose (3) from the water separator.
6. Disconnect harness assembly (4) on the bottom of the water separator.

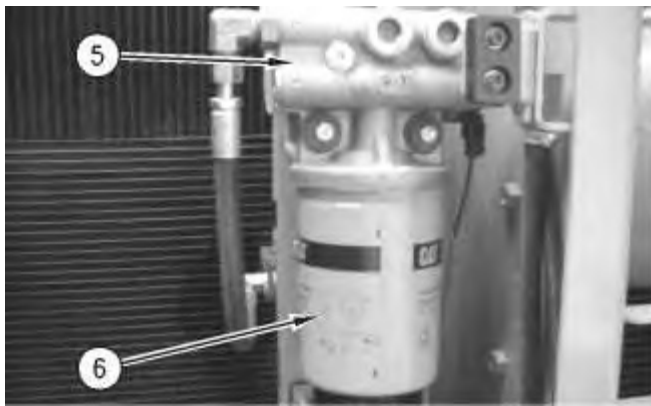


Illustration 3

g00860611

7. Use Tooling (A) to remove fuel filter/water separator (6) from water separator base (5) .

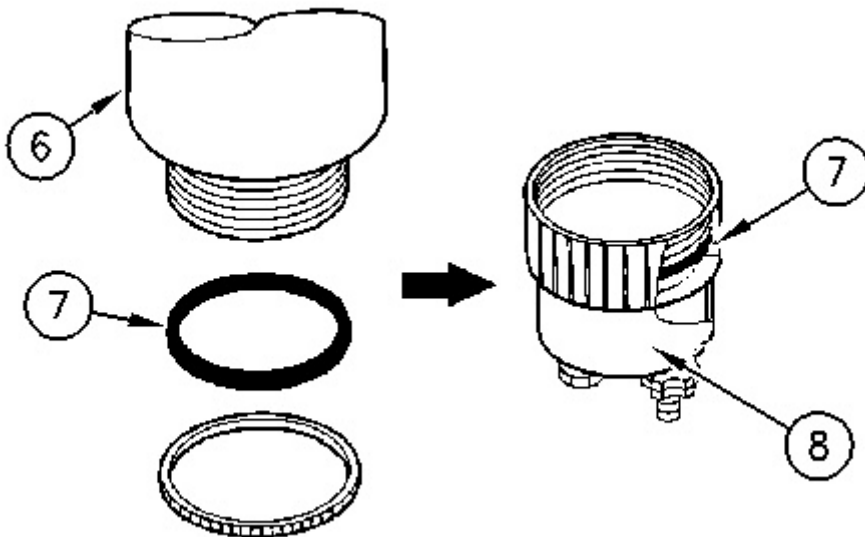


Illustration 4

g00794460

8. Remove bowl (8) and seal (7) from fuel filter/water separator (6) .

Note: The filter is the top portion of the water separator.

9. Discard the used fuel filter/water separator.

10. Clean the inside surfaces of water separator base (5) and bowl (8) .

Installation Procedure

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: Check the seal for wear or for damage. Replace the seal, if necessary.

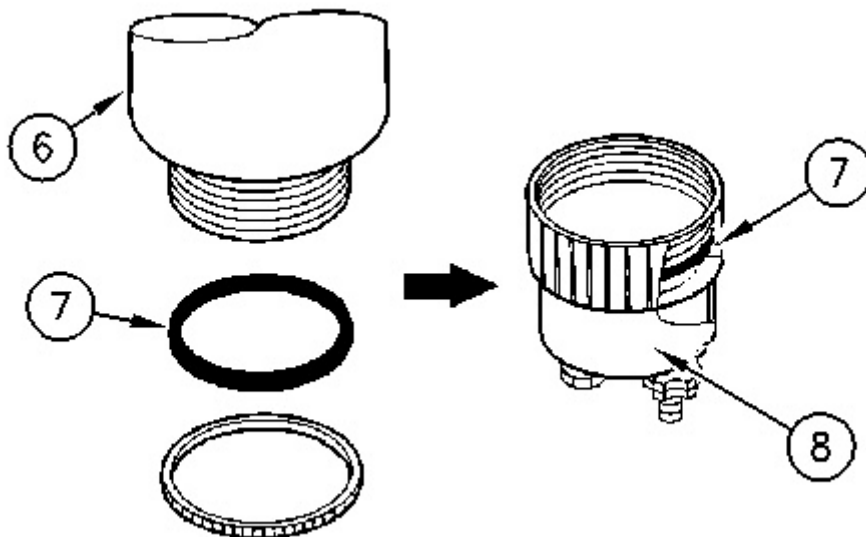


Illustration 5

g00794460

1. Install seal (7). Install bowl (8) onto a new fuel filter/water separator (6). Securely tighten bowl (8).

Note: The filter is the top portion of the fuel filter/water separator.

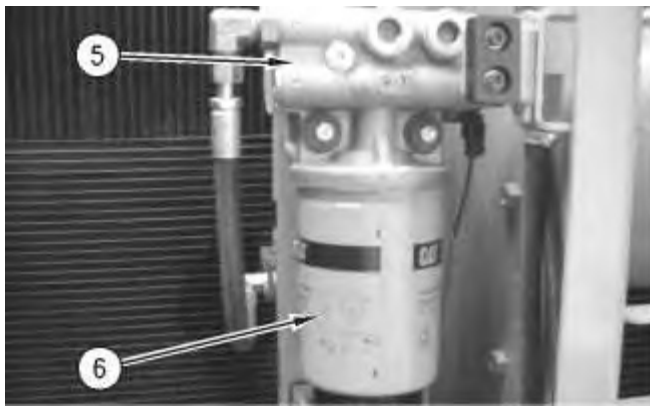


Illustration 6

g00860611

2. Hand tighten fuel filter/water separator (6) until the fuel filter/water separator contacts water separator base (5). Turn the fuel filter/water separator for an additional 3/4 turn.



Illustration 7

g00860593

3. Connect harness assembly (4) .
 4. Turn drain valve (2) clockwise in order to close.
 5. Install drain hose (3). Secure the drain hose with the hose clamp.
 6. Prime the fuel system. Refer to Operation and Maintenance Manual, "Fuel System Priming Pump - Operate".
 7. Start the engine. Check for leaks.
-

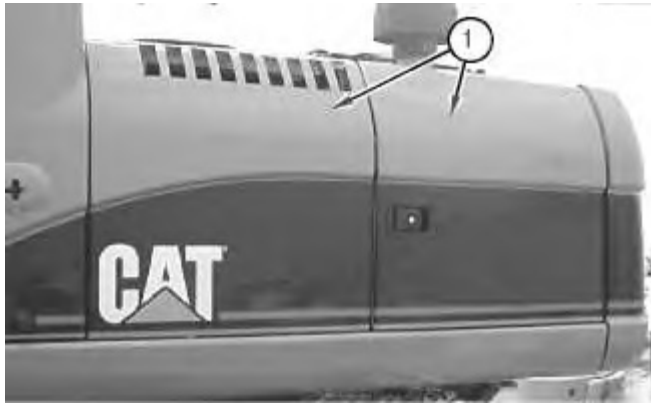


Illustration 8

g01001895

8. Close left side access doors (1) .
-

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i01925251

Engine Oil Filter and Oil Filter Base - Remove - Engine in Chassis

SMCS - 1306-011; 1308-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	2P-8250	Strap Wrench As	1

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. The precision components of the pump or of the motor can be damaged by contaminants or by dirt. All disassembly and assembly procedures must be performed on a clean work surface. Clean all the interior components in clean solvent. Dry all the interior components with compressed air. Plug ports and plug hoses on the machine during repair.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

! WARNING

Hot oil and components can cause personal injury.

Do not allow hot oil or components to contact skin.

1. Open the access door on the right side of the machine.



Illustration 1

g00859179

2. Use Tooling (A) to remove engine oil filter (1) .

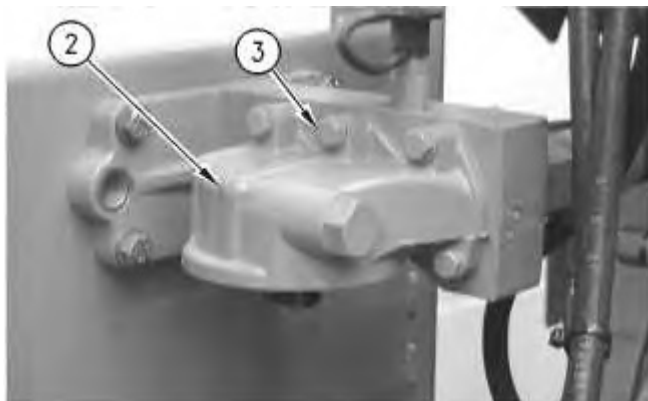


Illustration 2

g00859184

3. Remove bolts (3) .
4. Remove oil filter base (2) .



Illustration 3

g00863930

5. Remove O-ring seals (4) .

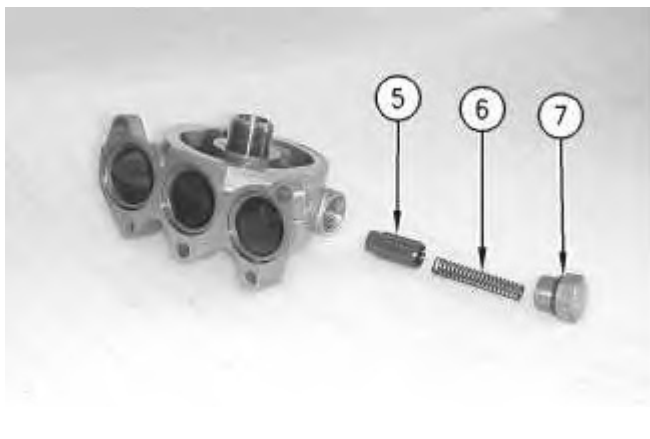


Illustration 4

g00863940

 **WARNING**

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

6. Remove plug (7) and the O-ring seal. Remove spring (6). Remove bypass valve (5) .
-



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