



Service Repair Manual

Models

336D LN EXCAVATOR

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Product: EXCAVATOR

Model: 336D LN EXCAVATOR L5K

Configuration: 336D LN Mobile Hydraulic Power Unit L5K00001-UP (MACHINE) POWERED BY C9 Engine

Disassembly and Assembly

330D, 336D, 336D2, 340D and 340D2 Excavators and 336D MHPU Mobile Hydraulic Power Unit C9 Engine Supplement

Media Number -REN8647-16

Publication Date -01/10/2015

Date Updated -26/10/2015

i02417234

Engine Oil Filter Base - Disassemble

SMCS - 1306-015; 1306

Disassembly Procedure

Start By:

- a. Remove the engine oil filter base. Refer to Disassembly and Assembly, "Engine Oil Filter Base - Remove".

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.

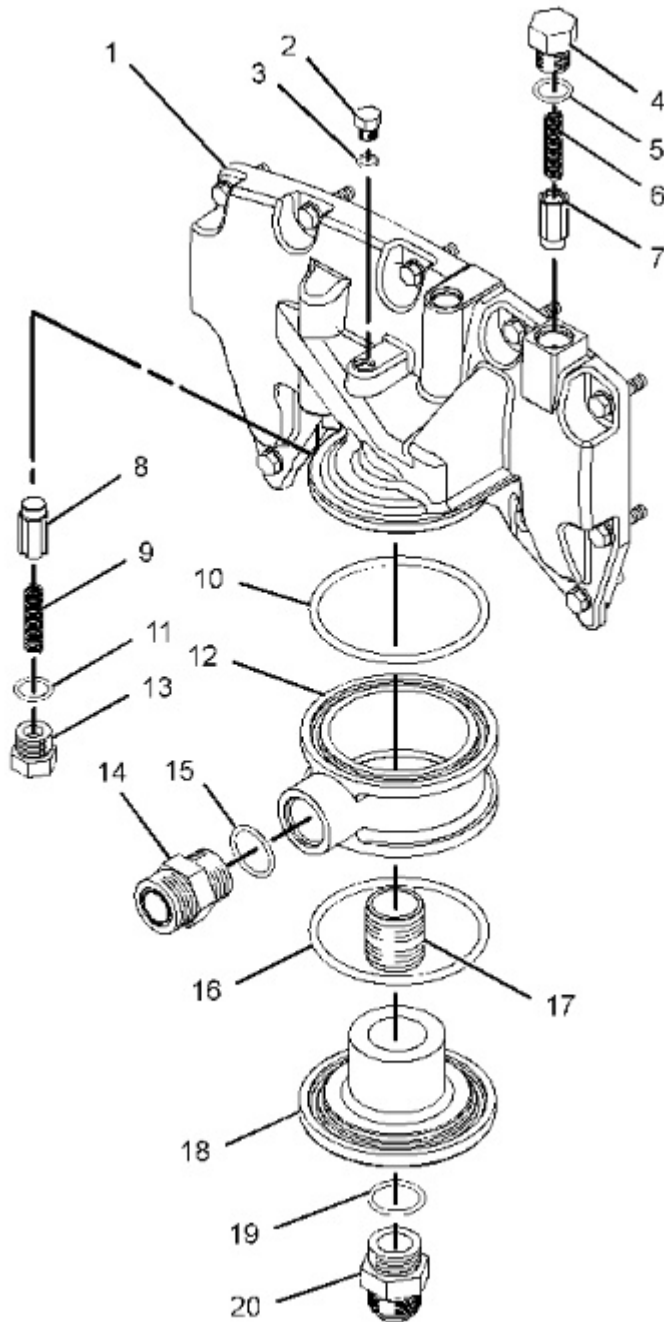


Illustration 1

g01208235

 **WARNING**

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

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1. Remove connector (20) and O-ring seal (19).
2. Remove cover (18) and O-ring seal (16).
3. Remove stud (17).
4. Remove connector (14) and O-ring seal (15).
5. Remove adapter (12) and O-ring seal (10).
6. Remove plug (2) and O-ring seal (3).
7. Remove plug (13), O-ring seal (11), spring (9), and valve (8) from engine oil filter base (1).
8. Remove plug (4), O-ring seal (5), spring (6), and valve (7) from engine oil filter base (1).

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Media Number -REN8647-16

Publication Date -01/10/2015

Date Updated -26/10/2015

i02417236

Engine Oil Filter Base - Assemble

SMCS - 1306-016; 1306

Assembly Procedure

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

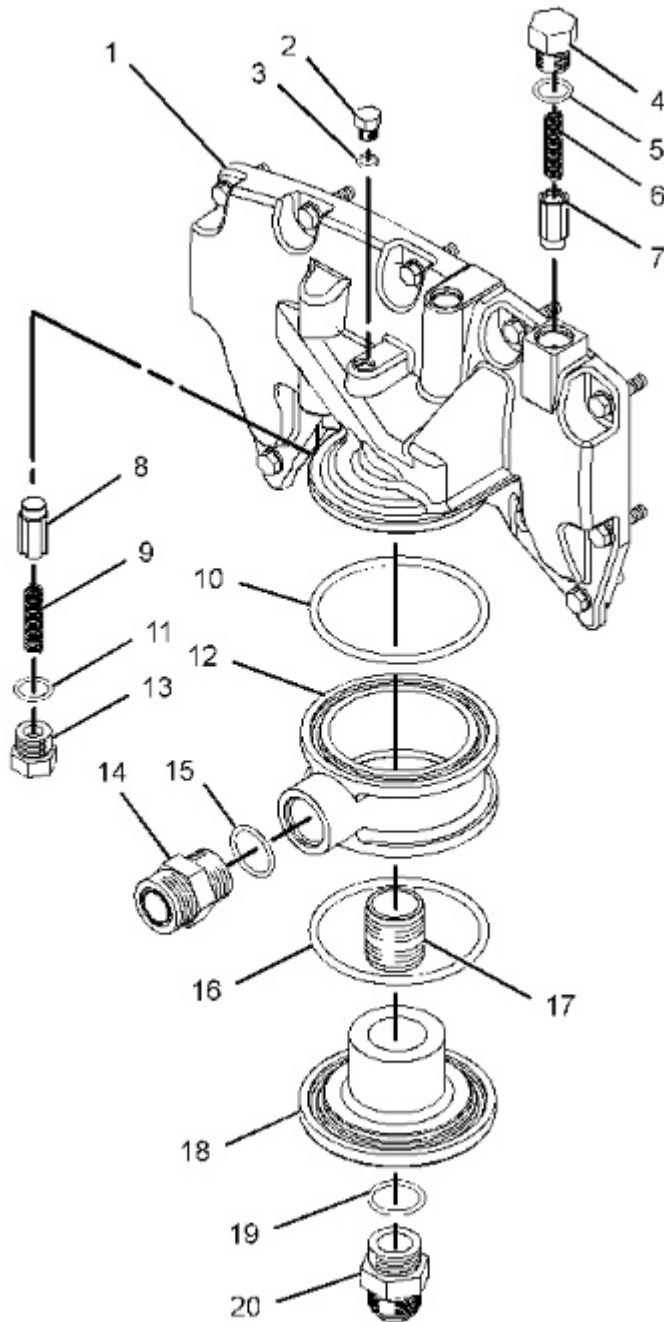


Illustration 1

g01208235

 **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.

1. Install valve (7), spring (6), O-ring seal (5), and plug (4) into engine oil filter base (1).
2. Install valve (8), spring (9), O-ring seal (11), and plug (13) into engine oil filter base (1).
3. Install O-ring seal (3) and plug (2).
4. Install O-ring seal (10) and adapter (12).
5. Install O-ring seal (15) and connector (14).
6. Install stud (17).
7. Install O-ring seal (16) and cover (18).
8. Install O-ring seal (19) and connector (20).

End By:

- a. Install the engine oil filter base. Refer to Disassembly and Assembly, "Engine Oil Filter Base - Install".

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Media Number -REN8647-16

Publication Date -01/10/2015

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i02417231

Engine Oil Filter Base - Install

SMCS - 1306-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Stud M8 - 1.25 by 65 mm	2

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

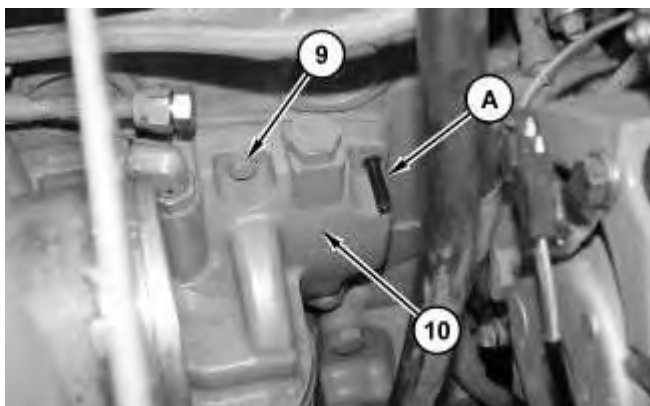


Illustration 1

g01208181

1. Install the gasket and engine oil filter base (10) over Tooling (A).
2. Install bolts (9).

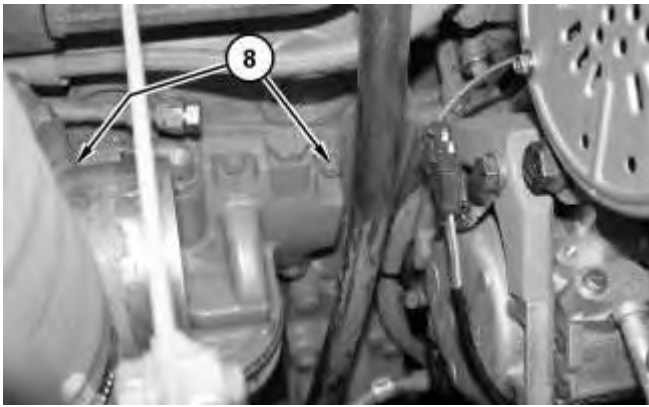


Illustration 2

g01208179

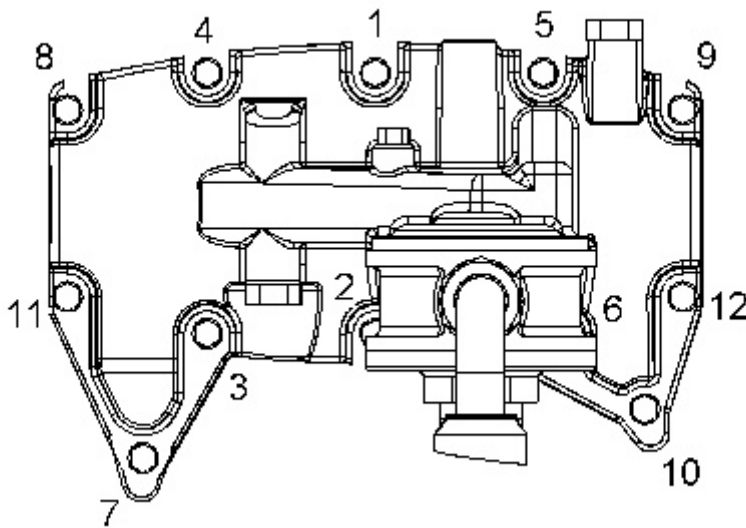


Illustration 3

g01208224

3. Remove Tooling (A) and install bolts (8). Refer to Illustration 3 for the correct tightening sequence.
-

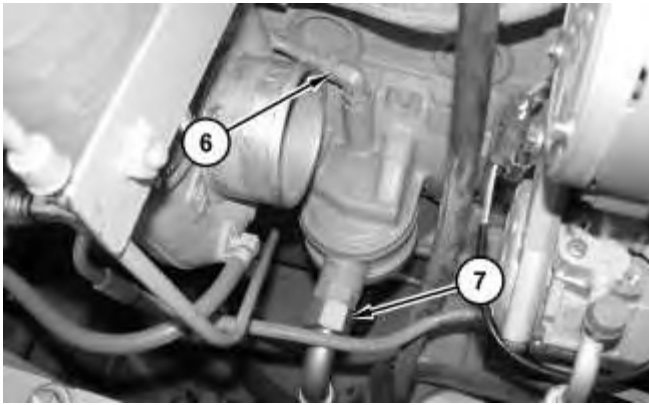


Illustration 4

g01208178

4. Connect hose assemblies (6) and (7).

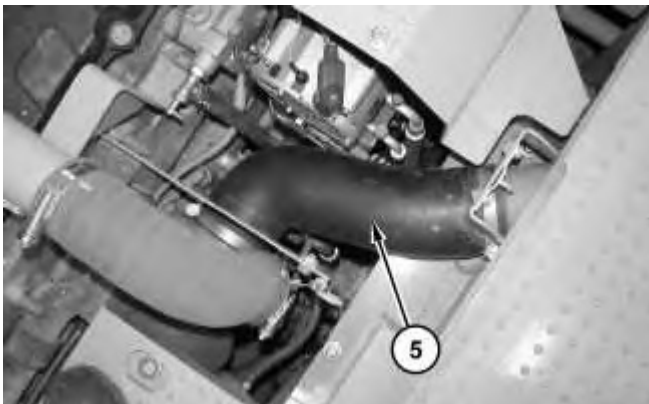


Illustration 5

g01208176

5. Install hose (5).

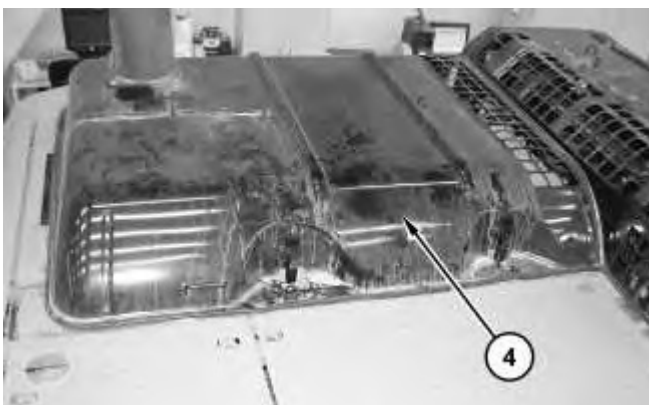


Illustration 6

g01208119

6. Close engine hood (4).
-



Illustration 7

g01208173

7. Connect hose assembly (3).

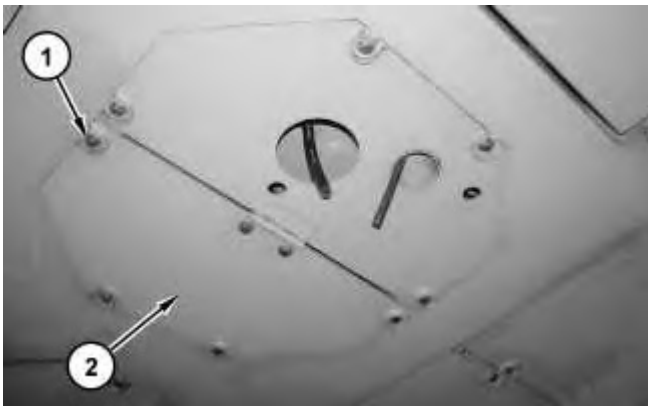


Illustration 8

g01208170

8. Raise guard (2) and install bolts (1).
9. fill the engine with coolant. Refer to Operation and Maintenance Manual, "Refill Capacities".

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Disassembly and Assembly

330D, 336D, 336D2, 340D and 340D2 Excavators and 336D MHPU Mobile Hydraulic Power Unit C9 Engine Supplement

Media Number -REN8647-16

Publication Date -01/10/2015

Date Updated -26/10/2015

i02417228

Engine Oil Cooler - Remove and Install

SMCS - 1378-010

Removal Procedure

Start By:

- a. Remove the engine oil filter base. Refer to Disassembly and Assembly, "Engine Oil Filter Base - Remove".

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.

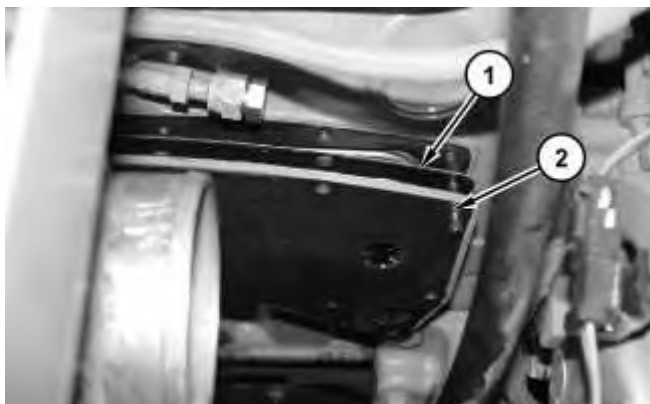


Illustration 1

g01208148

1. Remove gasket (1) and engine oil cooler (2).

Installation Procedure

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

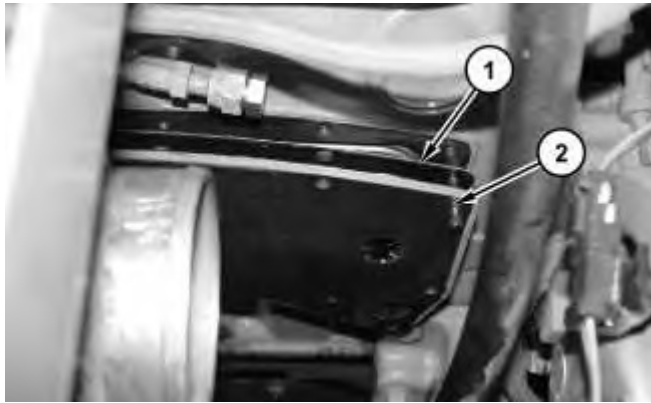


Illustration 2

g01208148

1. Install engine oil cooler (2) and gasket (1).

End By:

- a. Install the engine oil filter base. Refer to Disassembly and Assembly, "Engine Oil Filter Base - Install".

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Publication Date -01/10/2015

Date Updated -26/10/2015

i02415509

Hydraulic Oil Cooler - Remove and Install

SMCS - 1374-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	189-0408	Shackle As	2

Start By:

- a. Remove the fan group. Refer to Disassembly and Assembly, "Fan Group (Includes Fan, Fan Guard, Fan Shroud, and Hydraulic Fan Motor) - Remove".

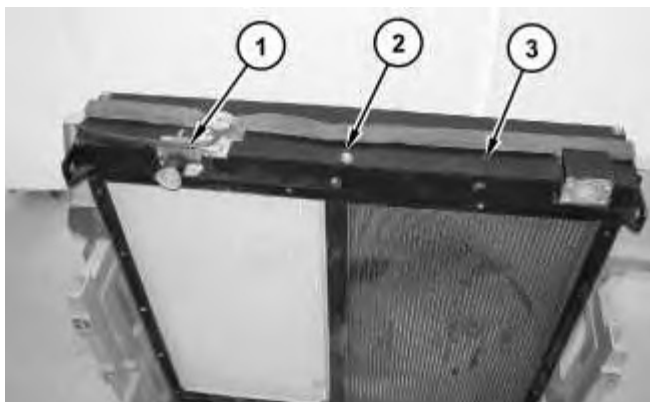


Illustration 1

g01207524

- 1. Remove hose (1), bolts (2), and plate (3).

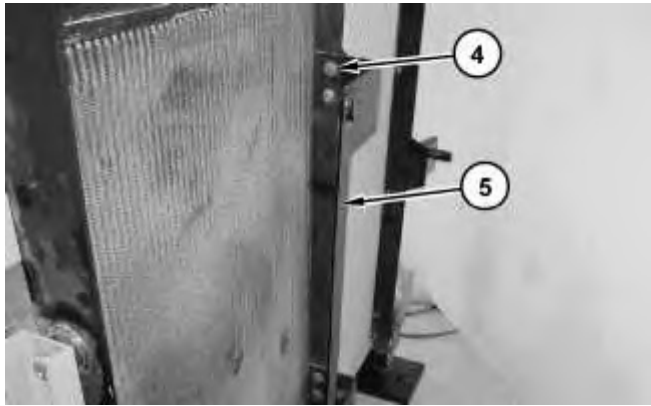


Illustration 2

g01207525

2. Remove bolts (4) and bracket (5).

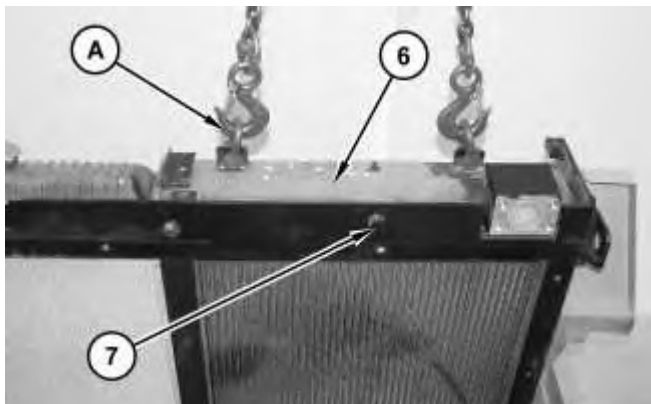


Illustration 3

g01207526

3. Attach Tooling (A) and a suitable lifting device to hydraulic oil cooler (6). The weight of hydraulic oil cooler (6) is approximately 68 kg (150 lb).
4. Remove bolt (7).

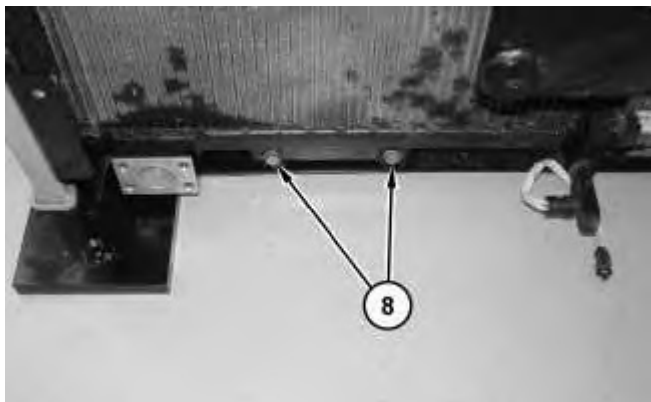


Illustration 4

g01207527

5. Remove bolts (8).

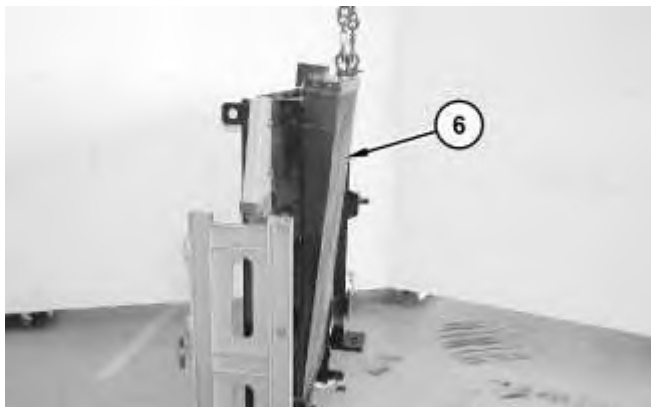


Illustration 5

g01207528

6. Use the suitable lifting device to remove hydraulic oil cooler (6).

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	189-0408	Shackle As	2

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

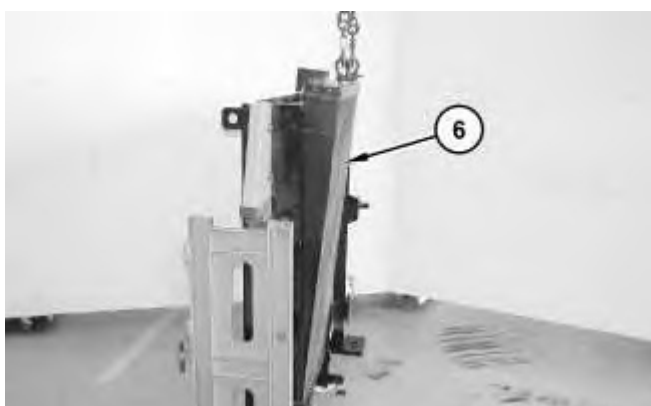


Illustration 6

g01207528

1. Use Tooling (A) and a suitable lifting device to position hydraulic oil cooler (6). The weight of hydraulic oil cooler (6) is approximately 68 kg (150 lb).
-

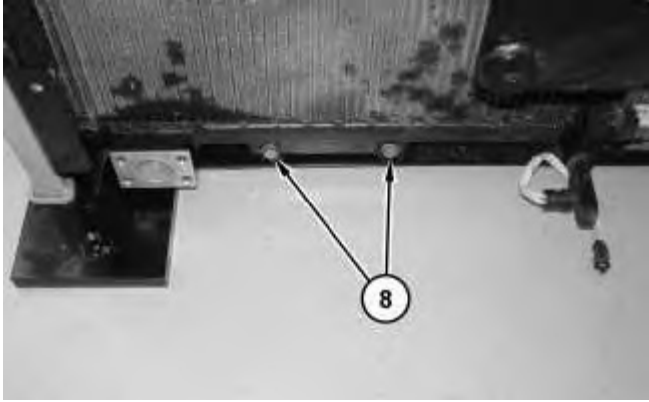


Illustration 7

g01207527

2. Install bolts (8).

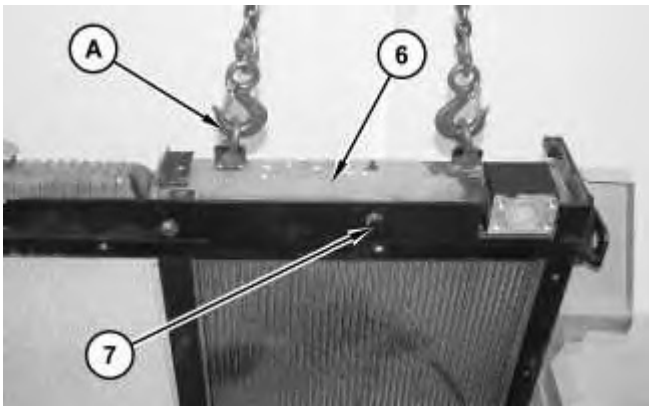


Illustration 8

g01207526

3. Install bolt (7) and remove Tooling (A) from hydraulic oil cooler (6).

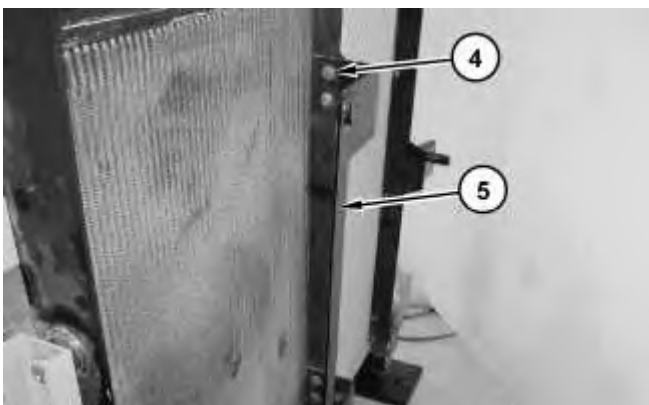


Illustration 9

g01207525

4. Install bracket (5) and bolts (4).

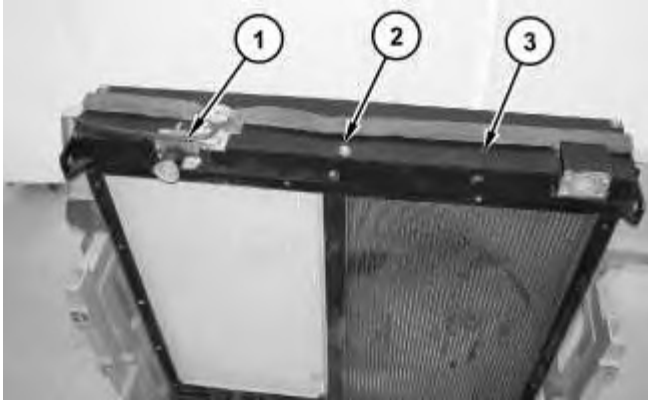


Illustration 10

g01207524

5. Install plate (3), bolts (2), and hose (1).

End By:

- a. Install the fan group. Refer to Disassembly and Assembly, "Fan Group (Includes Fan, Fan Guard, Fan Shroud, and Hydraulic Fan Motor) - Install".

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Disassembly and Assembly

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Media Number -REN8647-16

Publication Date -01/10/2015

Date Updated -26/10/2015

i02412726

Air Cleaner - Remove and Install

SMCS - 1051-010; 1054-010

Removal Procedure

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.

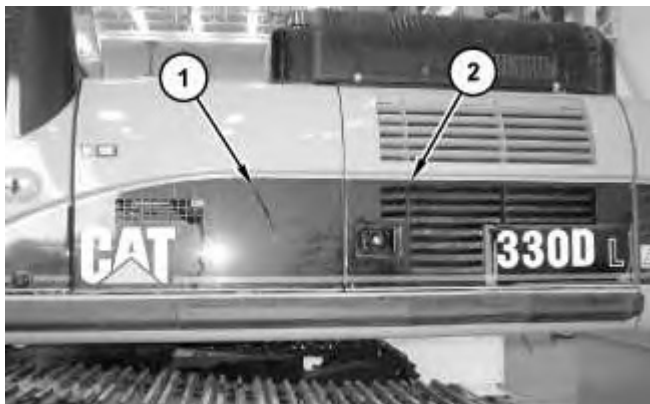


Illustration 1

g01205948

1. Open doors (2) and (1).

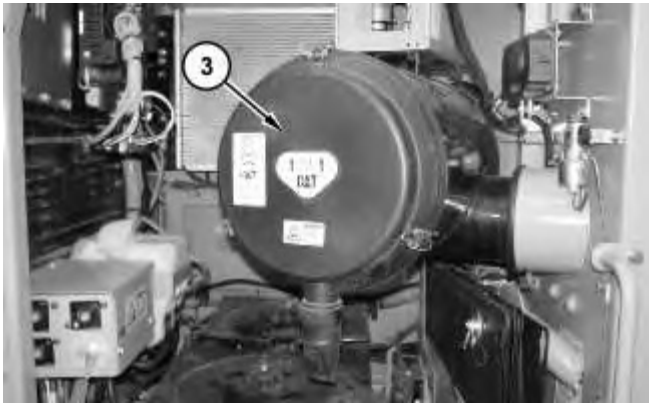


Illustration 2

g01206308

2. Remove cover (3).

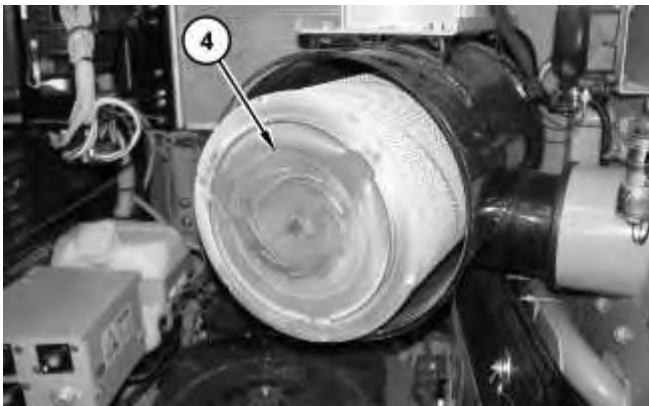


Illustration 3

g01206309

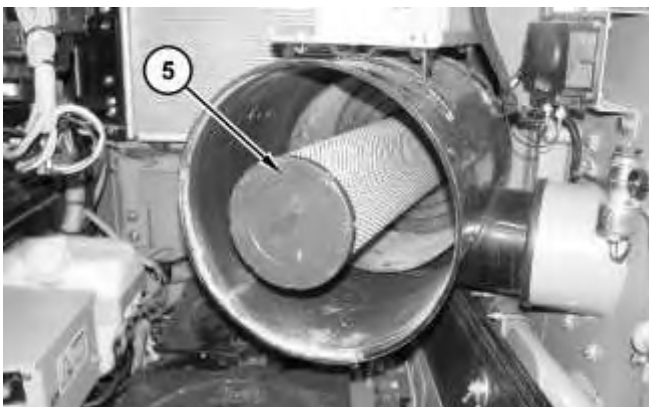


Illustration 4

g01206310

3. Remove primary filter element (4) and secondary filter element (5).

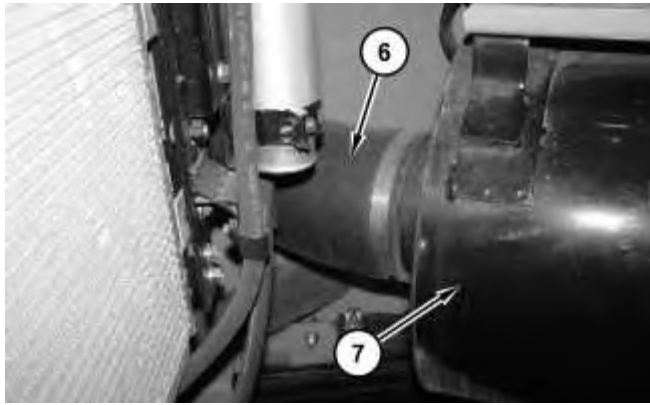


Illustration 5

g01206311

4. Disconnect hose (6) from the back of air cleaner assembly (7).

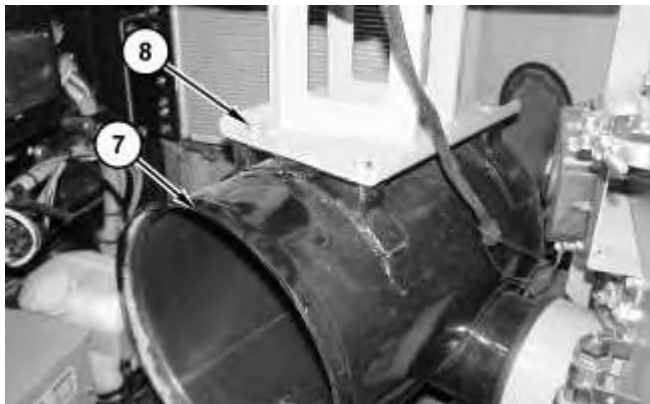


Illustration 6

g01206312

5. Remove bolts (8) and air cleaner assembly (7).

Installation Procedure

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

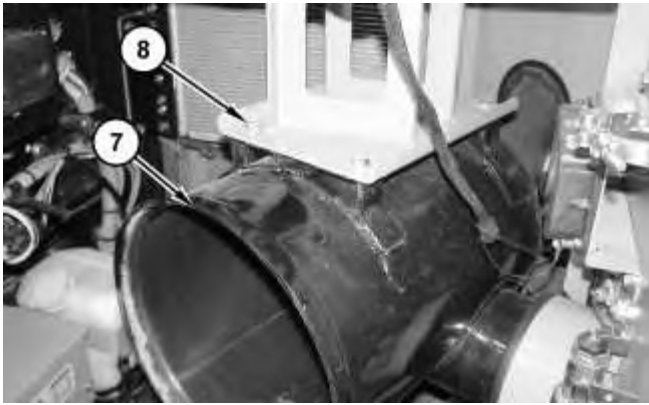


Illustration 7

g01206312

1. Install air cleaner assembly (7) and bolts (8).

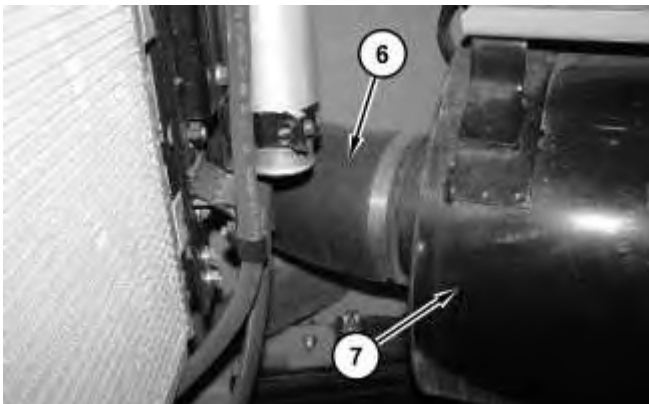


Illustration 8

g01206311

2. Connect hose (6) to the back of air cleaner assembly (7).

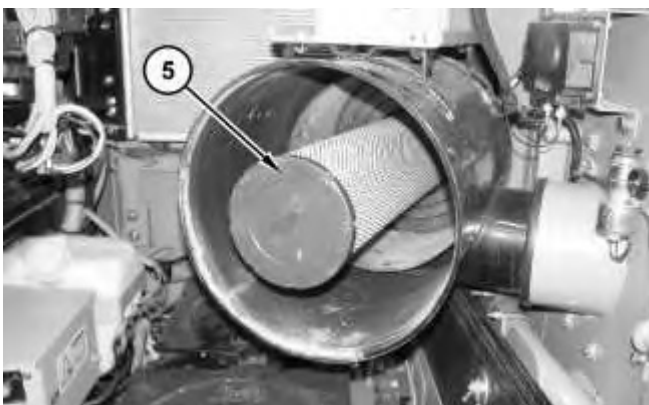


Illustration 9

g01206310

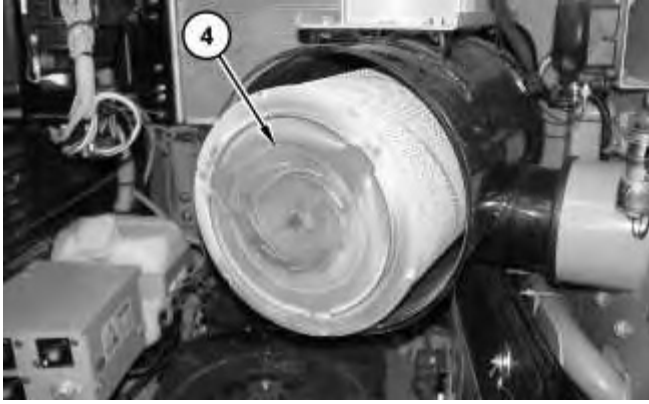


Illustration 10

g01206309

3. Install secondary filter element (5) and primary filter element (4).

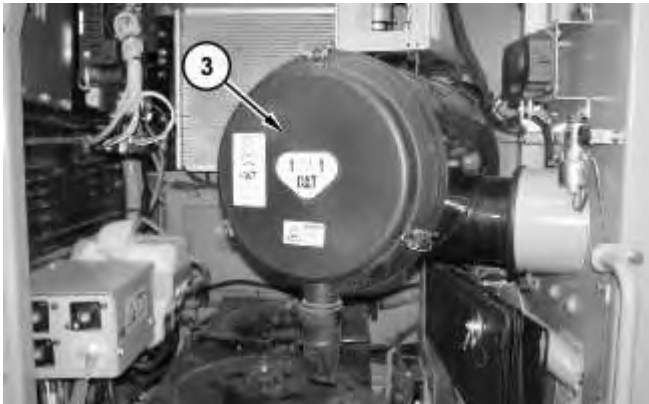


Illustration 11

g01206308

4. Install cover (3).

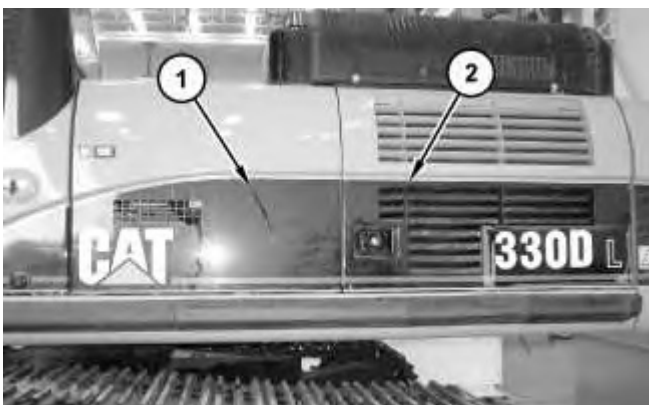


Illustration 12

g01205948

5. Close doors (1) and (2).

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Media Number -REN8647-16

Publication Date -01/10/2015

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i02412735

Ether Start Valve - Remove and Install

SMCS - 1456-010-VL

Removal Procedure

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.

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

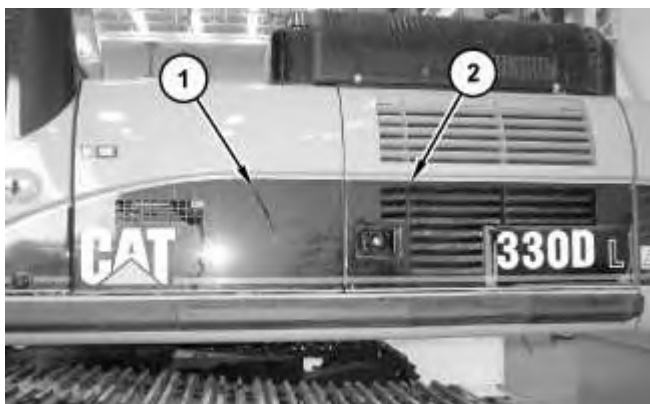


Illustration 1

g01205948

1. Open doors (2) and (1).

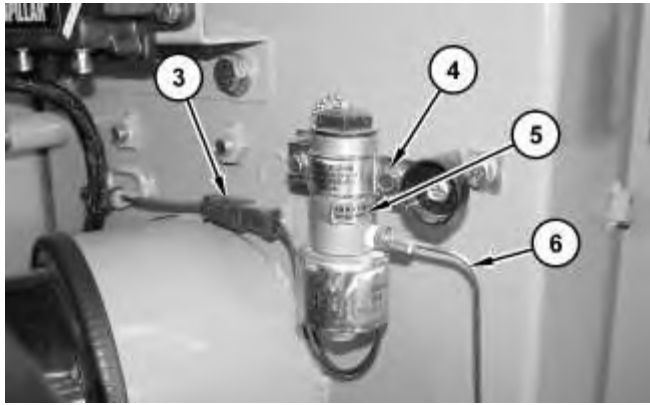


Illustration 2

g01205972

2. Disconnect harness assembly (3) and tube assembly (6).
3. Remove bolts (4) and ether start valve (5).

Installation Procedure

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

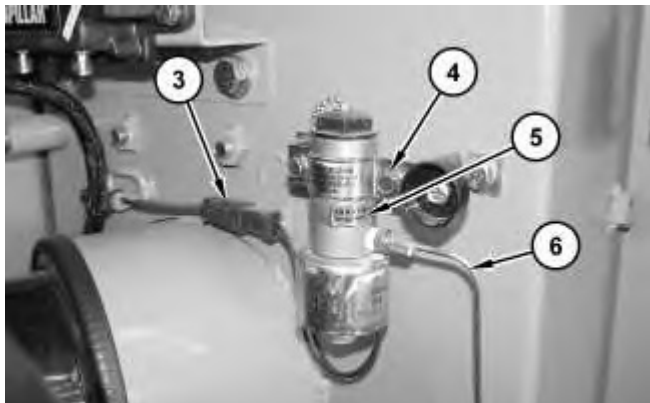


Illustration 3

g01205972

1. Position ether start valve (5) and install bolts (4).
 2. Connect harness assembly (3) and tube assembly (6).
-



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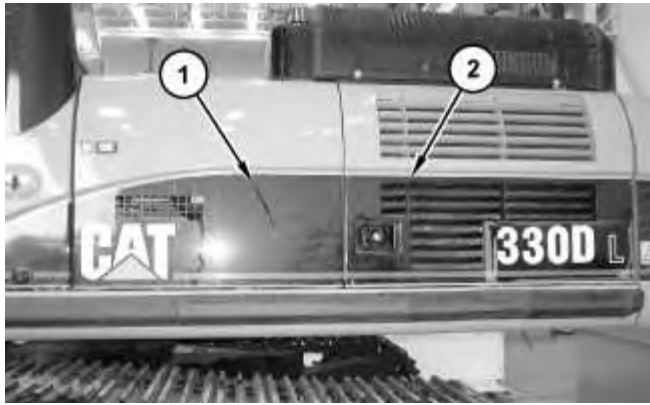


Illustration 4

g01205948

3. Close doors (1) and (2).

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