



Service Repair Manual

Models

M317D2 Wheeled Excavator

Previous Screen

Product: WHEELED EXCAVATOR

Model: M317D2 WHEELED EXCAVATOR CH5

Configuration: M317 D2 Wheeled Excavator CH500001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly

M315D, M315D Series 2, M315D2, M317D Series 2 and M317D2 Wheeled Excavators Machine Systems

Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i02811484

Swing Gear and Bearing - Remove

SMCS - 7063-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Bracket	3

Start By:

- a. Separate the upper frame from the undercarriage. Refer to Disassembly and Assembly, "Upper Frame and Undercarriage Frame - Seperate".



Illustration 1

g01118836

1. Attach Tooling (A) and a suitable lifting device to gear and bearing (1). The weight of gear and bearing (1) is approximately 231 kg (510 lb).

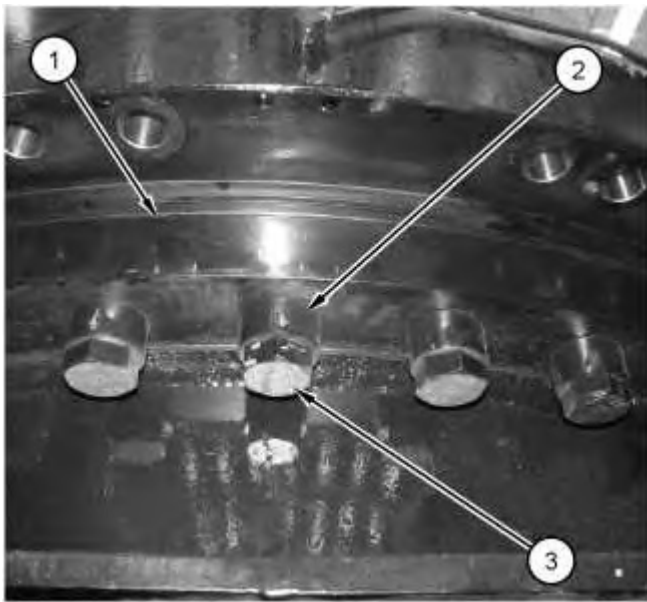


Illustration 2

g01118837

2. Remove bolts (3) and spacers (2). Remove gear and bearing (1) from the machine.

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Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i04640773

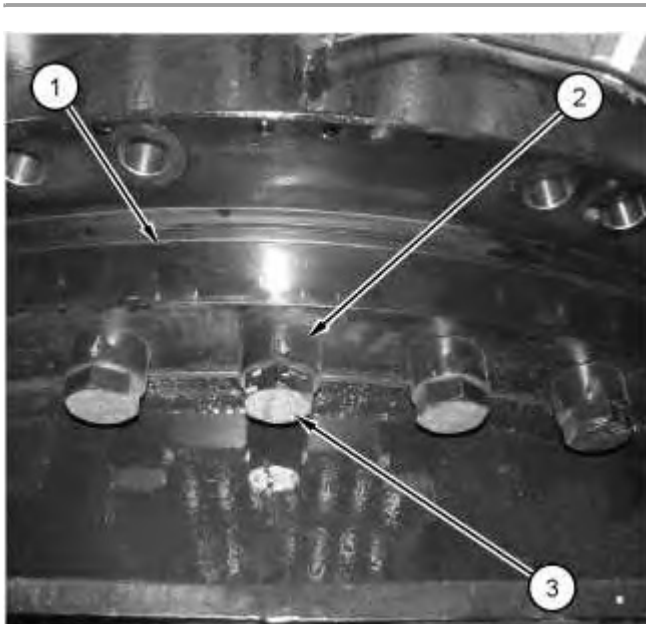
Swing Gear and Bearing - Install

SMCS - 7063-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Bracket	3
B	8C-8422	Sealant	2



1. Apply Tooling (B) to the bottom face of gear and bearing (1) . Use Tooling (A) and a suitable lifting device to position gear and bearing (1) on the machine. The weight of gear and bearing (1) is approximately 231 kg (510 lb).
2. Position spacers (2) and install bolts (3) . Tighten bolts (3) to a torque of $300 + 30 - 0$ N·m ($221 + 22 - 0$ lb ft).



Illustration 2

g01118836

3. Remove Tooling (A) and the suitable lifting device from gear and bearing (1) .

End By: Connect the upper frame to the undercarriage. Refer to Disassembly and Assembly, "Upper Frame and Undercarriage Frame - Connect".

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M315D, M315D Series 2, M315D2, M317D Series 2 and M317D2 Wheeled Excavators Machine Systems

Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i02815791

Hydraulic Oil Filter - Remove and Install

SMCS - 5068-010

Removal Procedure

Start By:

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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

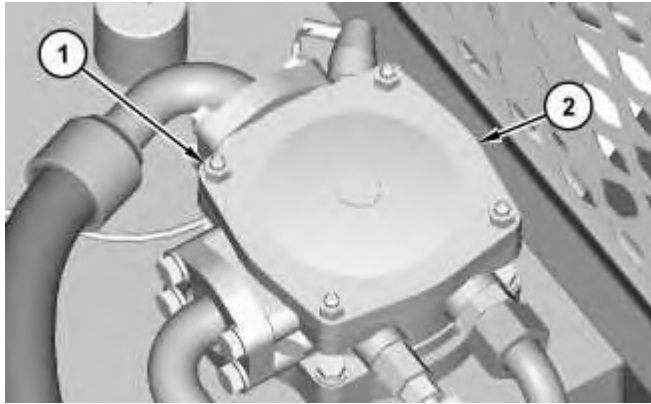


Illustration 1

g01404272

1. Remove nuts (1). Remove cover (2).



Illustration 2

g01404274

2. Remove O-ring seal (3). Remove retainer (4). Remove hydraulic oil filter (5).

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

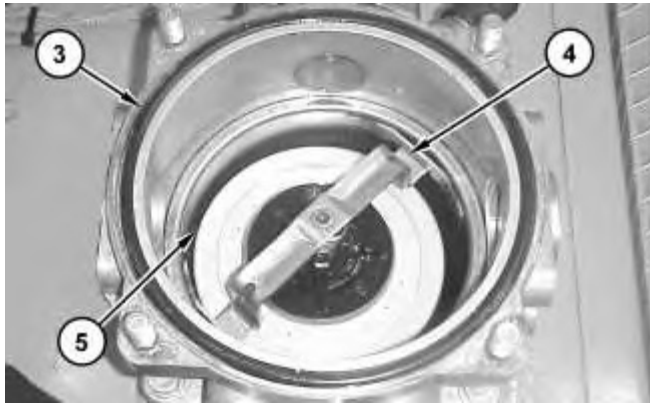


Illustration 3

g01404274

1. Install hydraulic oil filter (5). Install retainer (4). Install O-ring seal (3).

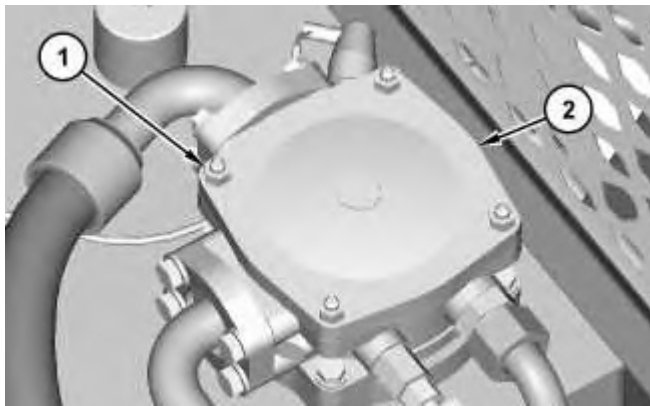


Illustration 4

g01404272

2. Install cover (2). Install nuts (1).

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Disassembly and Assembly

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Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i02815030

Hydraulic Tank - Remove

SMCS - 5056-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	4C-8358	Eyebolt	1

Start By:

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

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

WARNING

Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Drain the hydraulic tank into a suitable container for storage or disposal.

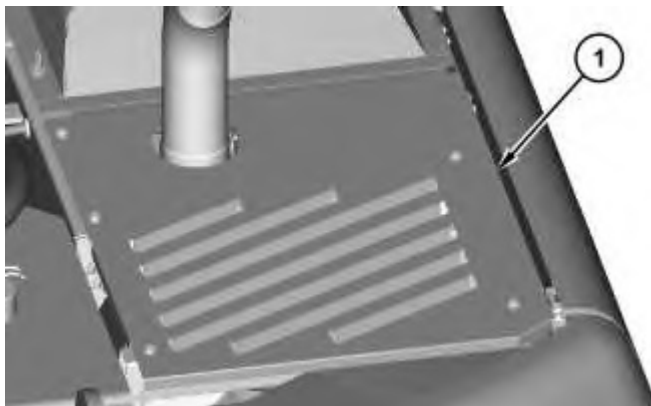


Illustration 1

g01403968

2. Remove panel (1).
-

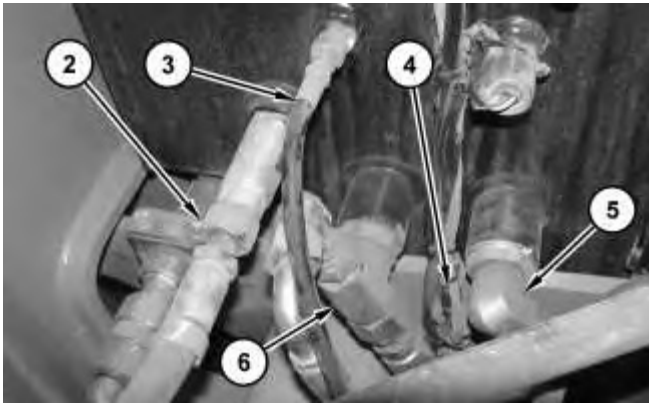


Illustration 2

g01403987

3. Disconnect hose assembly (2). Disconnect hose assembly (3). Disconnect harness assembly (4). Disconnect fitting (5). Disconnect fitting (6).

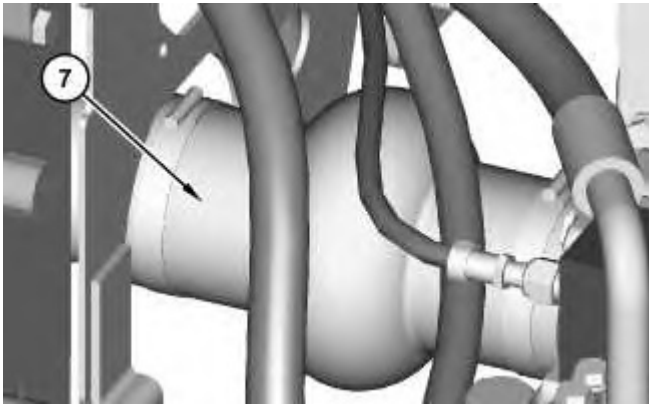


Illustration 3

g01403990

4. Disconnect hose (7).

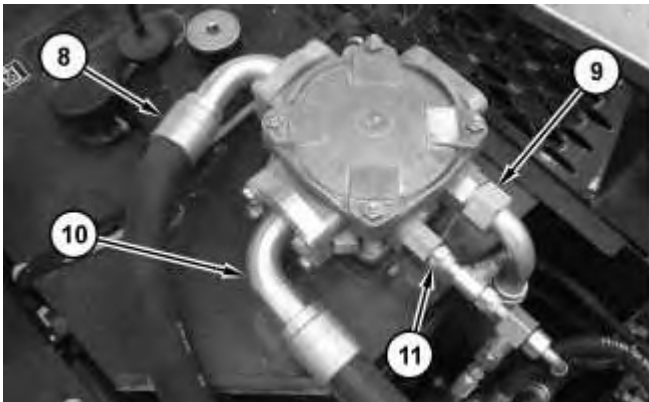


Illustration 4

g01404021

5. Disconnect hose assembly (8). Disconnect hose assembly (9). Disconnect hose assembly (10). Disconnect fitting (11).

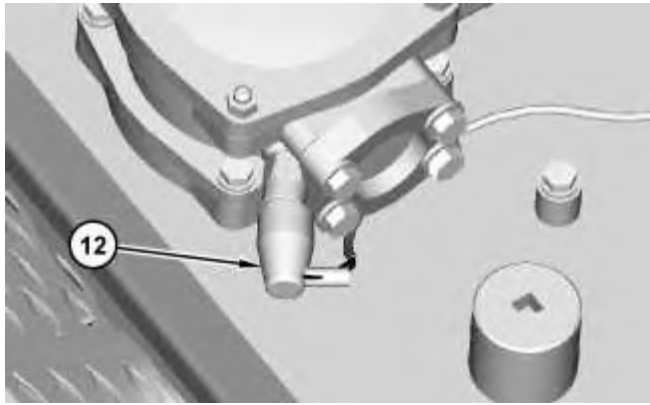


Illustration 5

g01404025

6. Disconnect harness assembly (12).

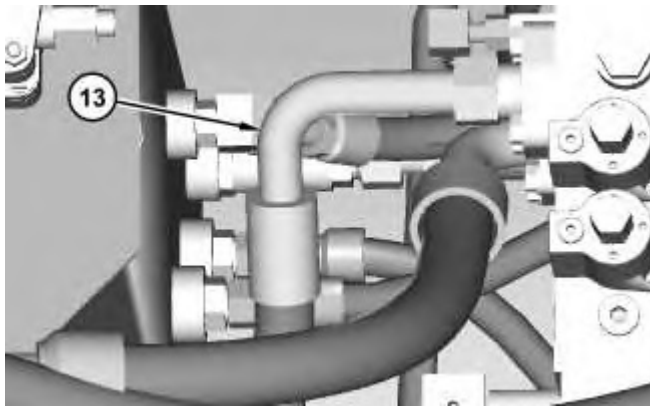


Illustration 6

g01404033

7. Disconnect hose assembly (13).

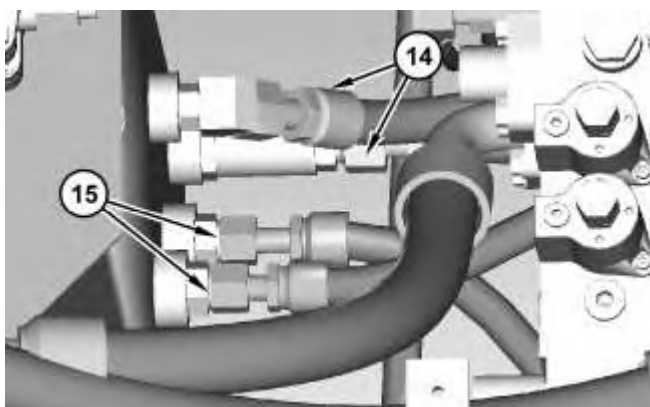


Illustration 7

g01404051

8. Disconnect hose assemblies (14). Disconnect hose assemblies (15).

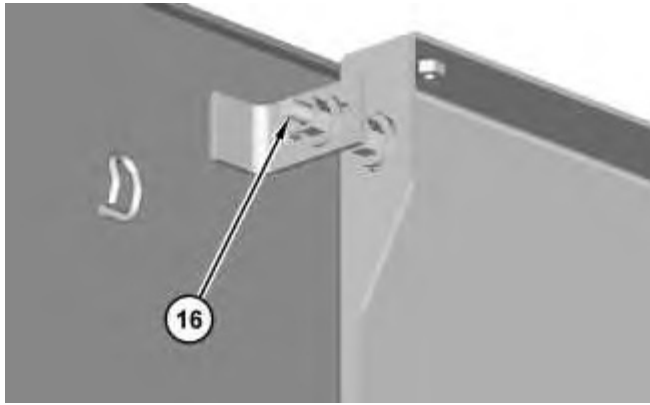


Illustration 8

g01404153

9. Remove bolt (16).

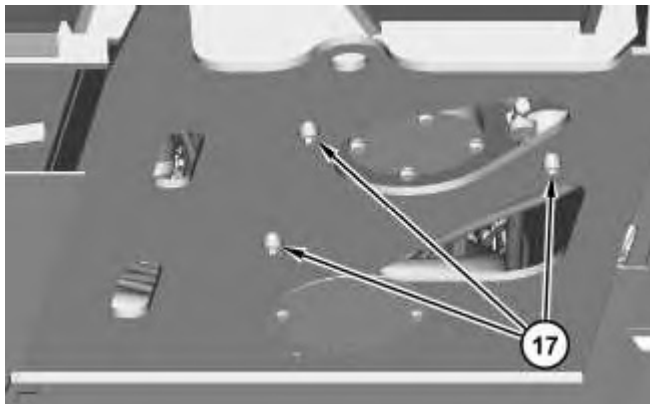


Illustration 9

g01404169

10. Remove bolts (17).

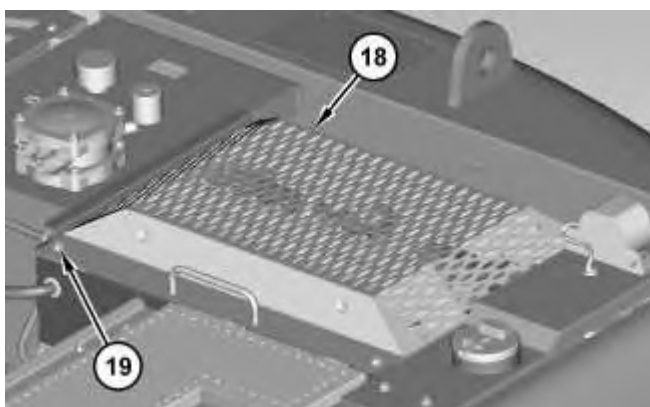


Illustration 10

g01404189

11. Remove bolts (19). Open cover assembly (18).

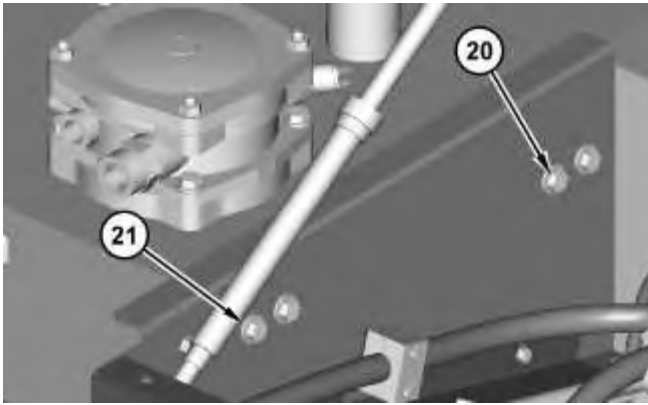


Illustration 11

g01404199

12. Remove bolts (20) and bolts (21).

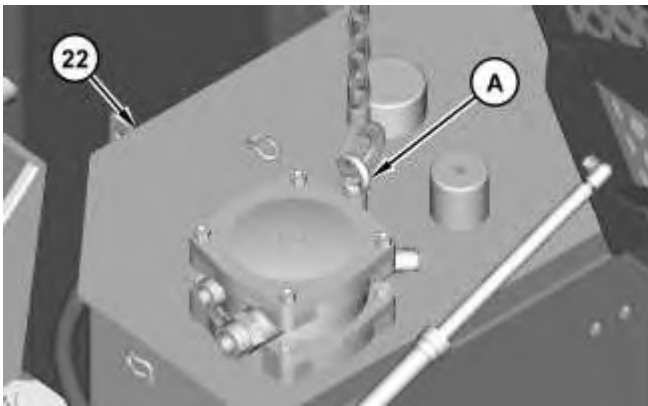


Illustration 12

g01404215

13. Attach Tooling (A) and a suitable lifting device onto hydraulic tank (22). The weight of hydraulic tank (22) is approximately 193 kg (425 lb). Remove hydraulic tank (22).

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Disassembly and Assembly

M315D, M315D Series 2, M315D2, M317D Series 2 and M317D2 Wheeled Excavators Machine Systems

Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i02815031

Hydraulic Tank - Install

SMCS - 5056-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	4C-8358	Eyebolt	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

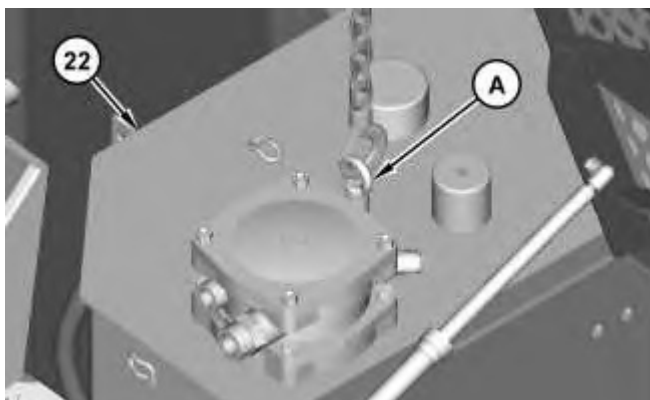


Illustration 1

g01404215

1. Use Tooling (A) and a suitable lifting device in order to install hydraulic tank (22). The weight of hydraulic tank (22) is approximately 193 kg (425 lb).

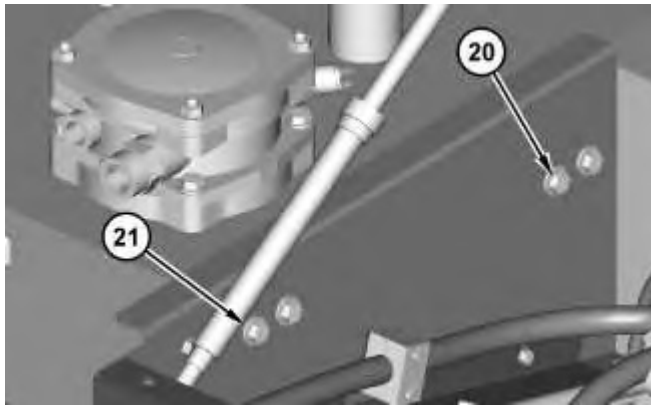


Illustration 2

g01404199

2. Install bolts (21) and bolts (20).

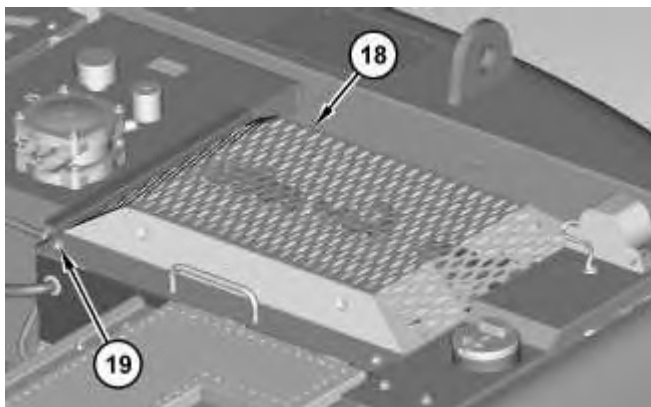
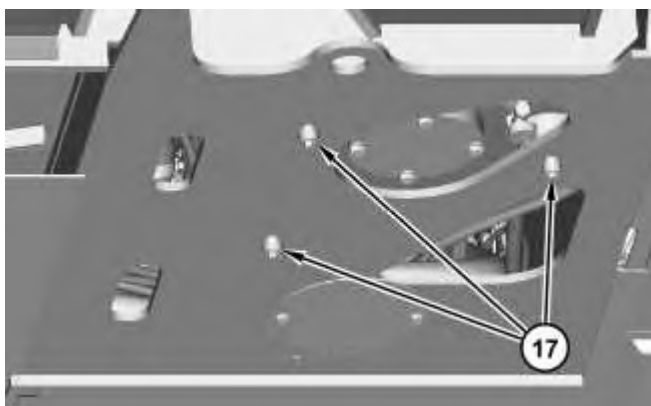


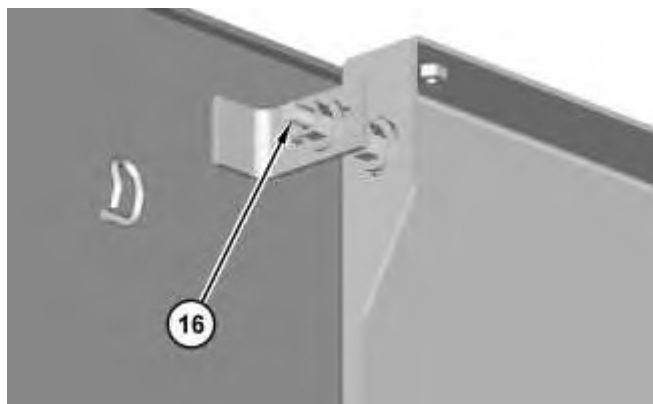
Illustration 3

g01404189

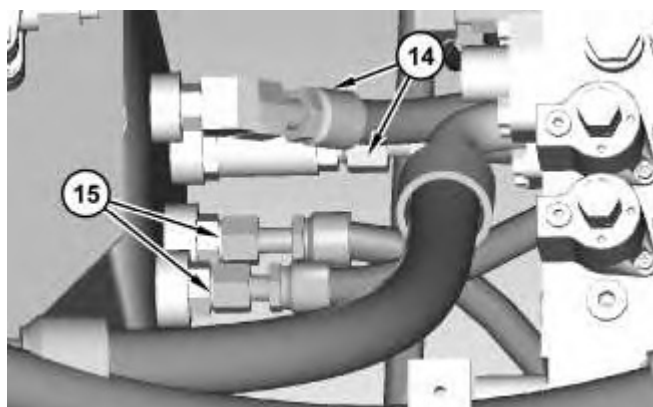
3. Close cover assembly (18). Install bolts (19).



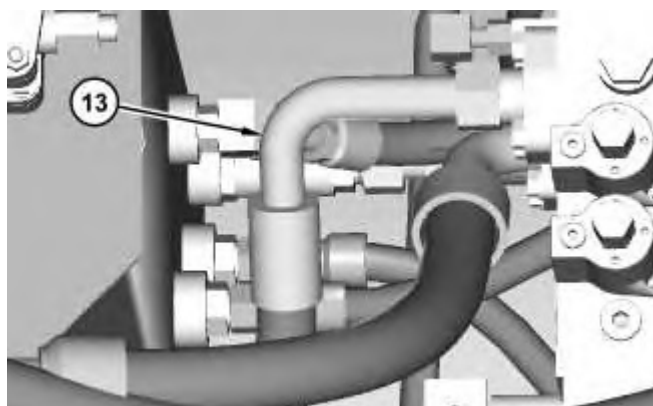
4. Install bolts (17).



5. Install bolt (16).



6. Connect hose assemblies (15). Connect hose assemblies (14).



7. Connect hose assembly (13).

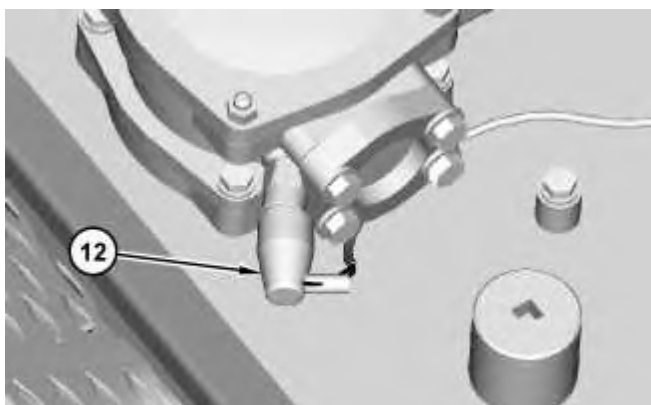


Illustration 8

g01404025

8. Connect harness assembly (12).

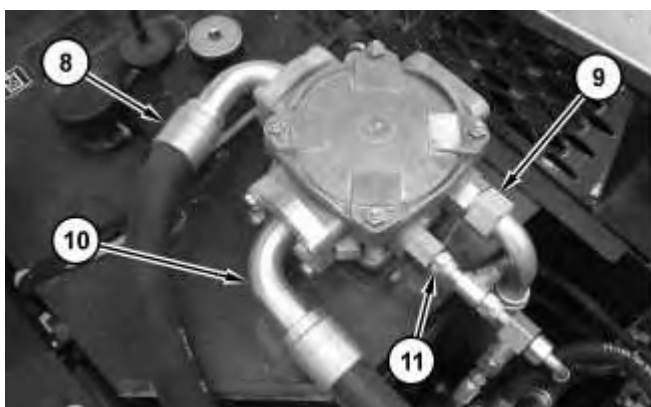


Illustration 9

g01404021

9. Connect fitting (11). Connect hose assembly (10). Connect hose assembly (9). Connect hose assembly (8).

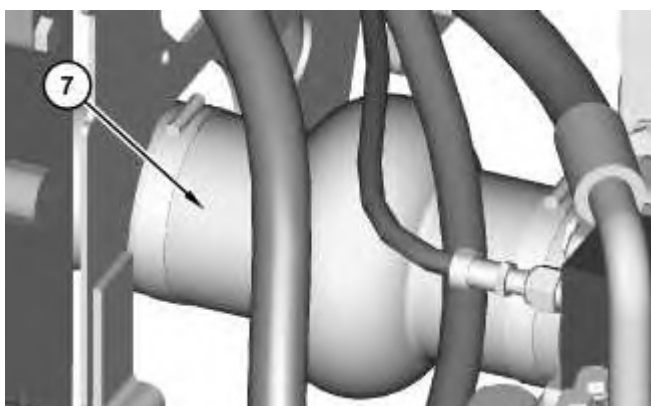


Illustration 10

g01403990

10. Connect hose (7).

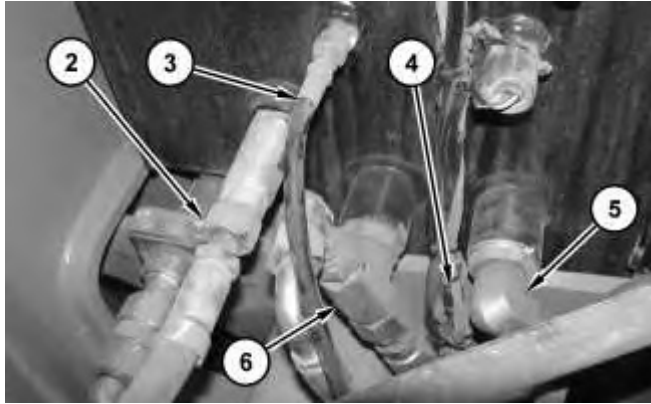


Illustration 11

g01403987

11. Connect fitting (6). Connect fitting (5). Connect harness assembly (4). Connect hose assembly (3). Connect hose assembly (2).

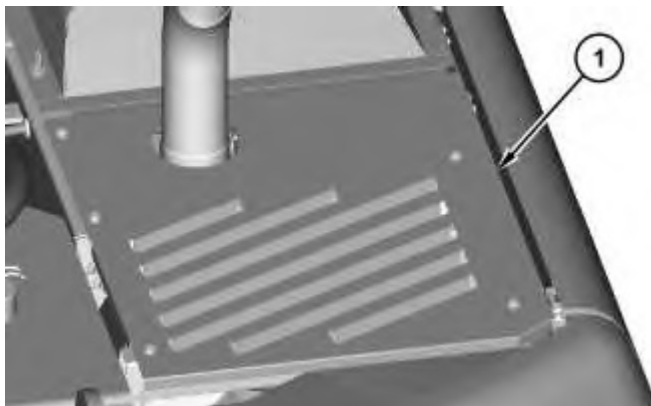


Illustration 12

g01403968

12. Install panel (1).
13. Fill the hydraulic tank. Refer to Operation and Maintenance Manual, "Lubrication Viscosities and Refill Capacities".

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M315D, M315D Series 2, M315D2, M317D Series 2 and M317D2 Wheeled Excavators Machine Systems

Media Number -KENR6028-05

Publication Date -01/07/2015

Date Updated -08/07/2015

i02630761

Fuel Level Sensor - Remove and Install

SMCS - 7481-010-NS

Removal Procedure

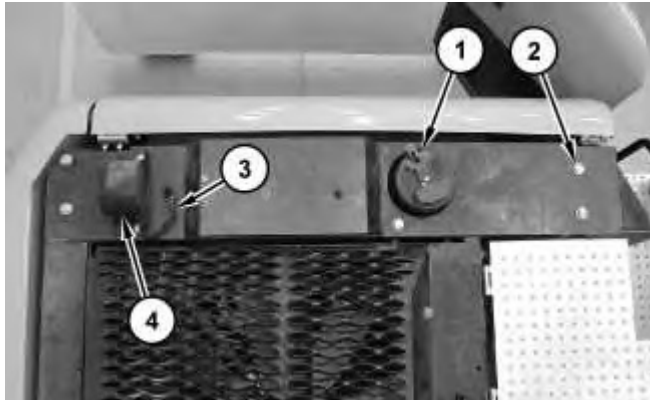


Illustration 1

g01319384

1. Remove cap (1).
2. Remove bolts (2).
3. Disconnect harness assembly (3).
4. Remove plate (4).

Note: Reinstall cap (1) in order to prevent contamination.

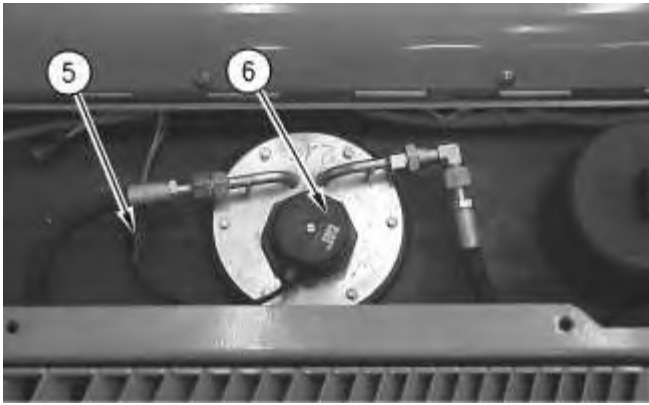


Illustration 2

g00926518

5. Disconnect harness assembly (5).
6. Remove fuel level sensor (6).

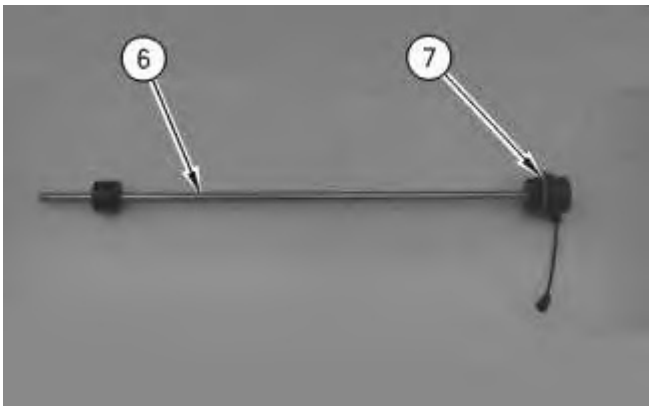


Illustration 3

g00926519

7. Remove gasket (7) from fuel level sensor (6).

Installation Procedure

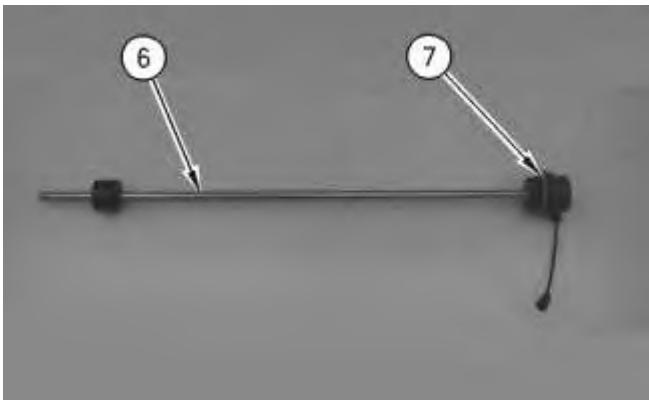


Illustration 4

g00926519

1. Install gasket (7) onto fuel level sensor (6).

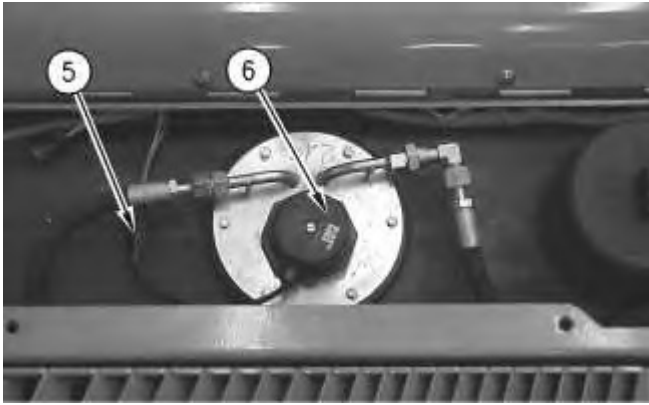


Illustration 5

g00926518

2. Install fuel level sensor (6).
3. Connect harness assembly (5).
4. Remove cap (1) in order to position plate (4).

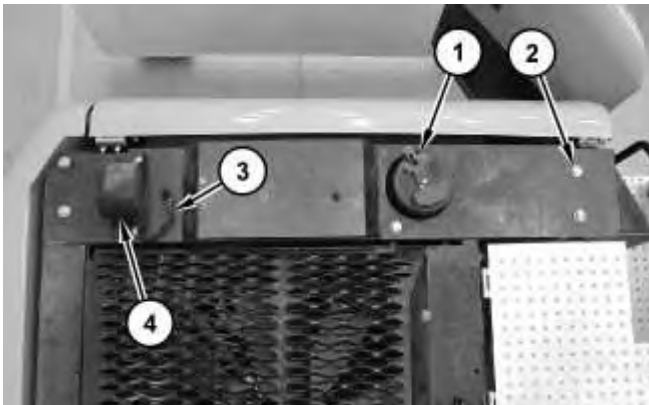


Illustration 6

g01319384

5. Position plate (4).
6. Connect harness assembly (3).
7. Install bolts (2).
8. Install cap (1).

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i02816798

Relief Valve (Pilot) - Remove and Install

SMCS - 5072-010

Removal Procedure

Start By:

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

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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

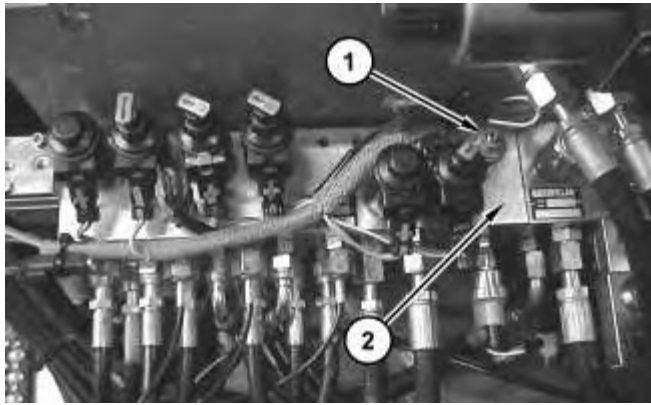


Illustration 1

g01404734

1. Remove relief valve (1) from manifold (2).

Installation Procedure

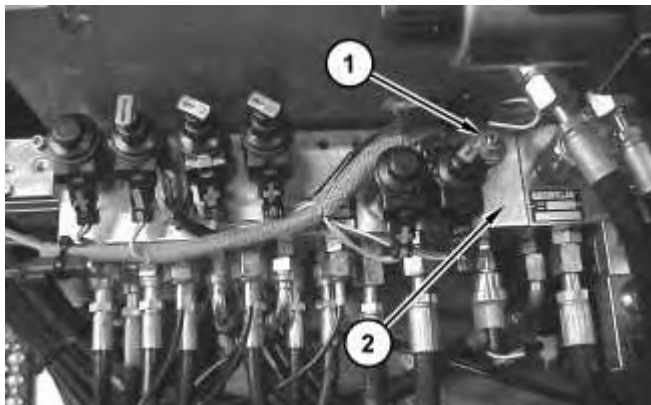


Illustration 2

g01404734

1. Install relief valve (1) into manifold (2).

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Media Number -KENR6028-05

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Date Updated -08/07/2015

i02816830

Main Hydraulic Pump and Pump Drive Coupling - Remove

SMCS - 5070-011-MV; 5234-011-MV

Removal Procedure

Start By:

- a. Remove the muffler. Refer to Disassembly and Assembly, "Muffler - Remove and Install".

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.

NOTICE

Keep all parts clean from contaminants.

Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.

To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.

Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.



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WARNING

Personal injury or death can result without releasing all of the hydraulic pressure.

Release all the pressure from the hydraulic system before any lines are disconnected.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Drain the hydraulic tank into a suitable container for storage or disposal.

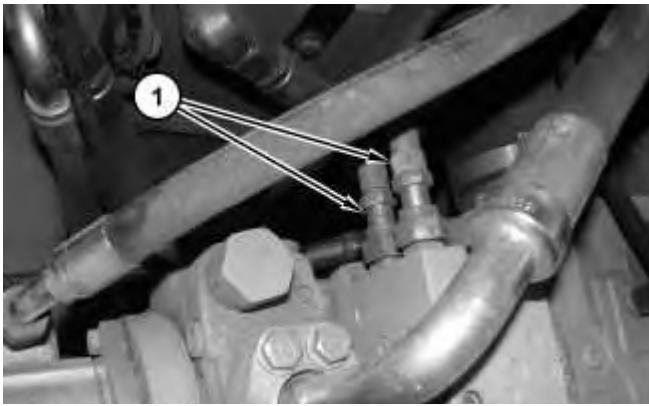
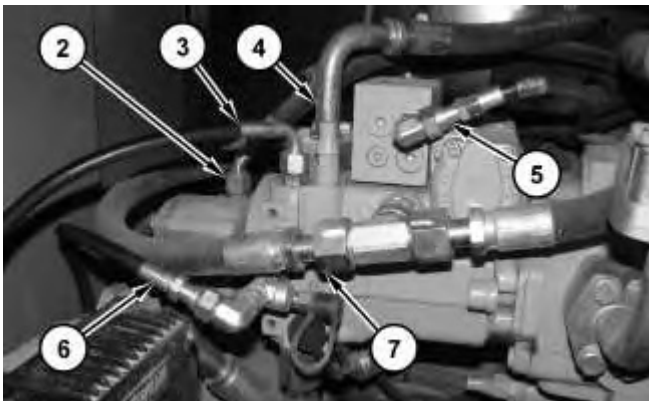


Illustration 1

g01404761

2. Disconnect hose assemblies (1).



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