



Service Repair Manual

Models

305.5D Mini Excavator

Previous Screen

Product: MINI HYD EXCAVATOR

Model: 305.5D MINI HYD EXCAVATOR FLZ

Configuration: 305.5D Mini Excavator FLZ00001-UP (MACHINE) POWERED BY S4Q2T Engine

Disassembly and Assembly

303.5D CR, 304D CR, 305D CR and 305.5D CR Mini Hydraulic Excavators Machine Systems

Media Number -UENR0102-01

Publication Date -01/12/2014

Date Updated -17/12/2014

i03983341

Swing Motor and Swing Drive - Assemble

SMCS - 5058-016-ZW; 5459-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
B	1P-1863	Retaining Ring Pliers	1

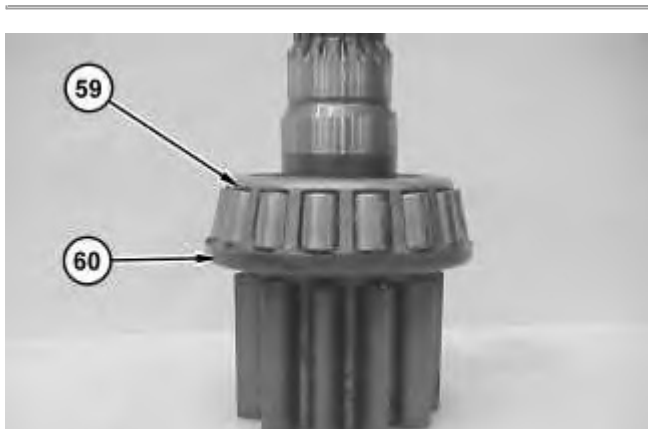


Illustration 1

g01229399

1. Raise the temperature of bearing cone (59) .
2. Install dust cap (60) and bearing cone (59) .



Illustration 2

g01229396

3. Install bearing cup (57) and lip seal (58) .



Illustration 3

g01229395

4. Install bearing cup (56) .



Illustration 4

g01229394

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5. Install shaft assembly (55) .

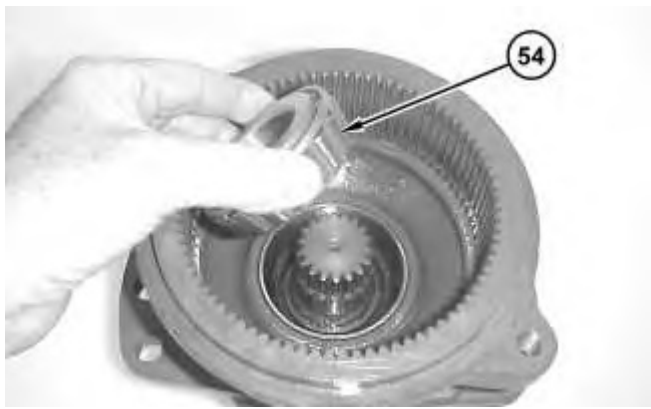


Illustration 5

g01229392

6. Install bearing cone (54) .

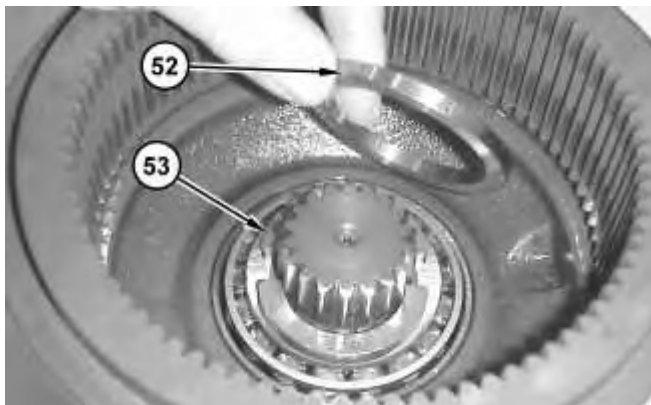
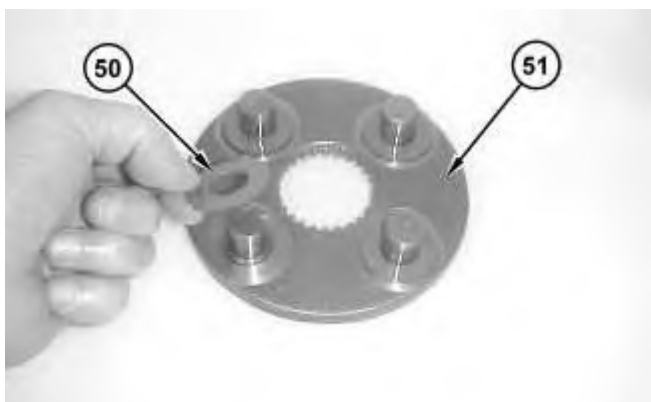


Illustration 6

g01229391

7. Install retainers (53) and retainer (52) .



8. Install washers (50) onto carrier (51) .

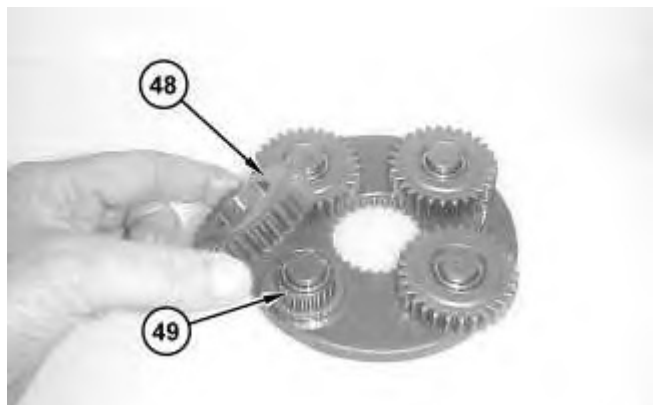


Illustration 8

9. Install gears (48) and bearings (49) .

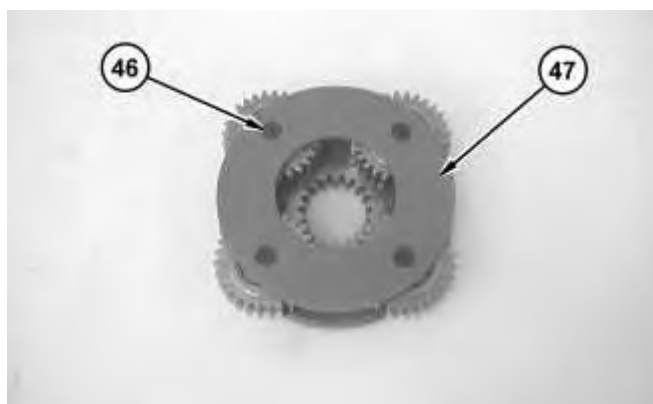


Illustration 9

10. Install plate (47) and screws (46) .
-

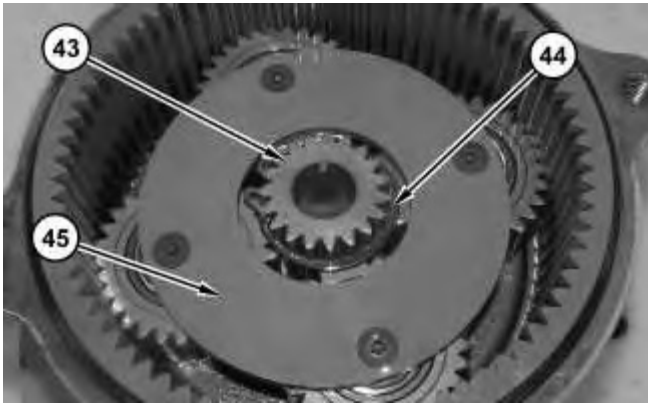


Illustration 10

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11. Install carrier (45) .
12. Use Tooling (B) in order to Install retaining ring (44) .
13. Install sun gear (43) .

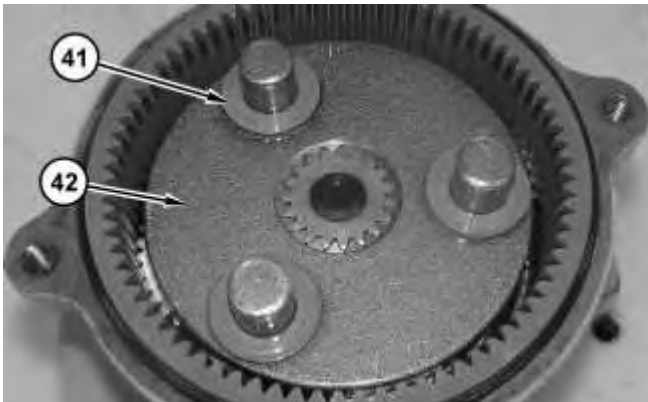
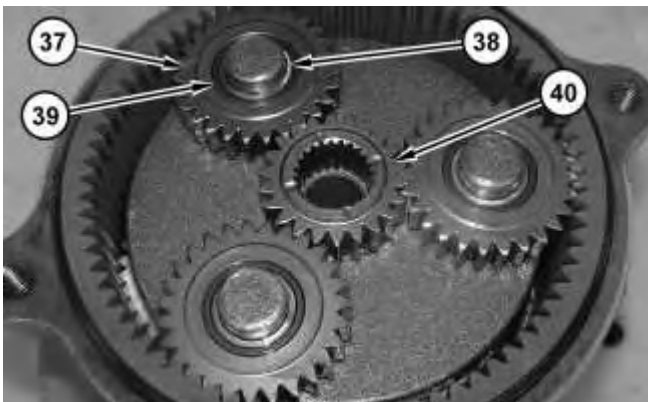


Illustration 11

g01228848

14. Install carrier (42) and washers (41) .



15. Install bearings (38), races (39), and gears (37) .
16. Install gear (40) .

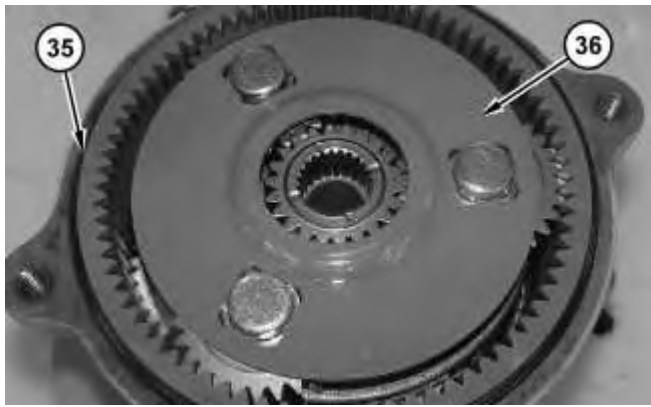


Illustration 13

17. Install O-ring seal (35) and plate (36) .



Illustration 14

18. Install O-ring seal (34), backup rings (33), O-ring seal (32), and nut (31) .
-

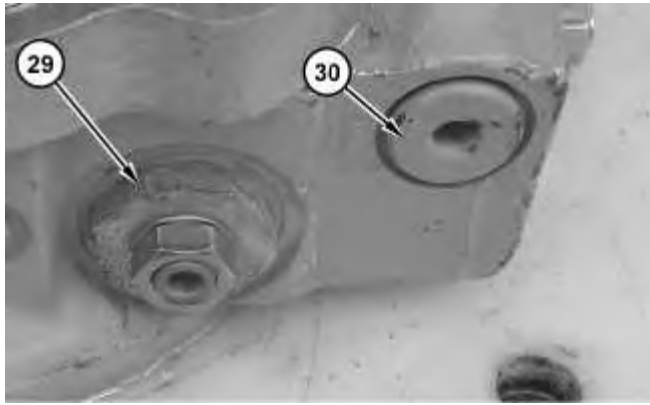


Illustration 15

g01228851

19. Install valve assembly (29), the O-ring seal, and plug (30) .

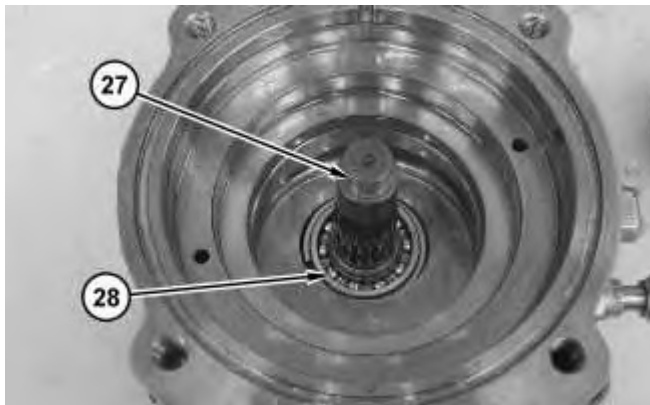
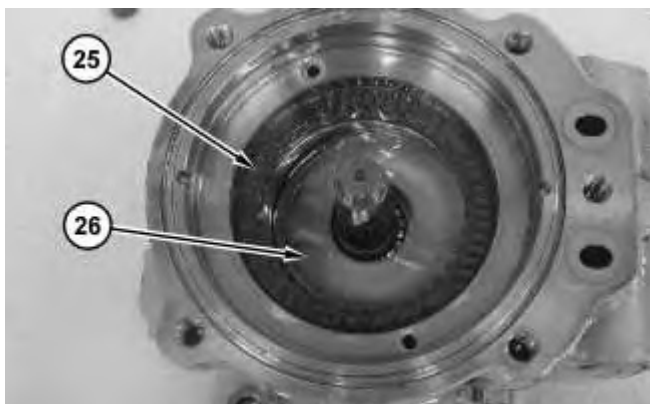


Illustration 16

g01228843

20. Raise the temperature of bearing (28) .
21. Install bearing onto shaft (27) .
22. Install shaft (27) and bearing (28) .



23. Install plate (26) and disc (25) .



Illustration 18

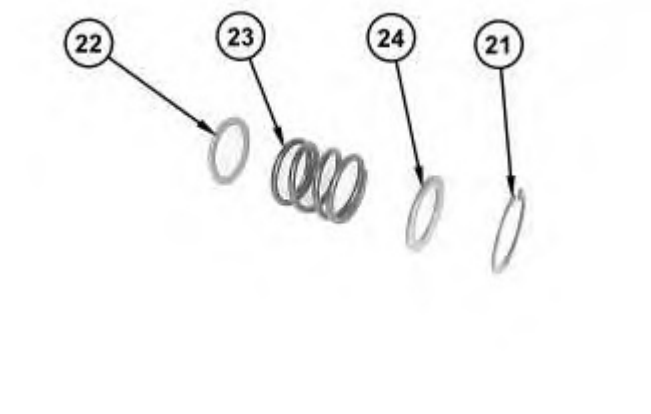


Illustration 19

 **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.

24. Install washer (22), spring (23), and washer (24) .
25. Use a suitable press and Tooling (B) in order to install retaining ring (21) .



Illustration 20

g01228837

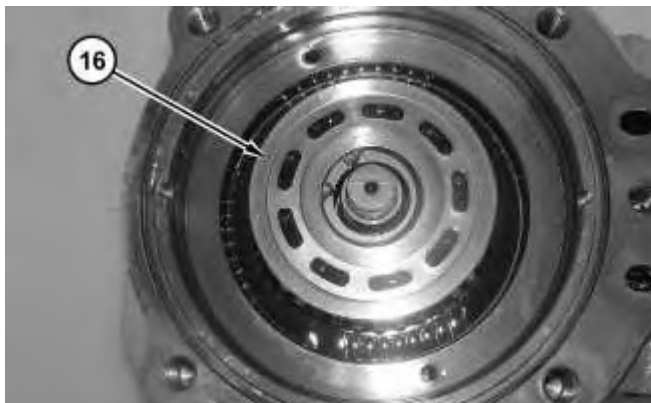
26. Install pins (20) .



Illustration 21

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27. Install bearing (19), retainer (18), and pistons (17) .



28. Install rotating group (16) .



Illustration 23

29. Install O-ring seals (15) .

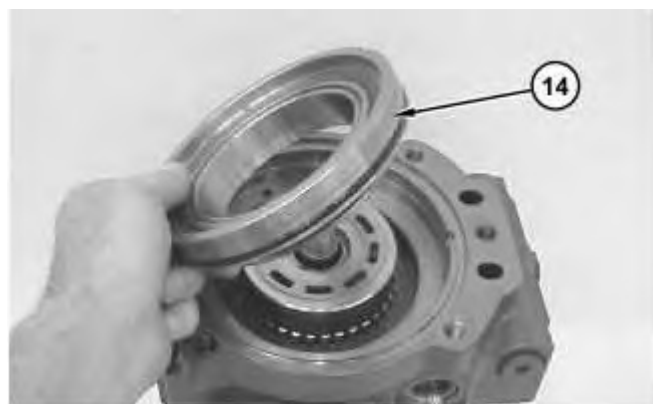


Illustration 24

30. Install piston (14) .

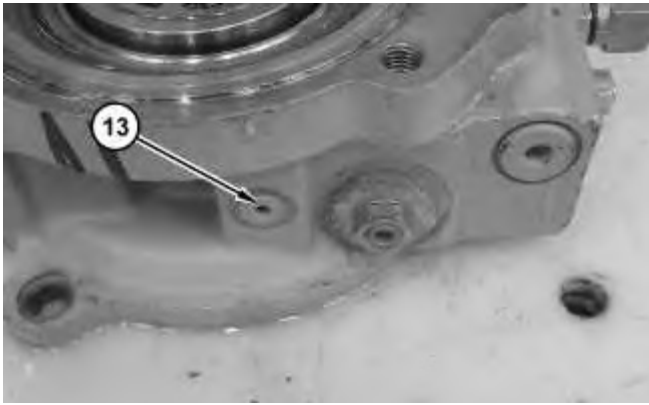


Illustration 25

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31. Install the O-ring seal and plug (13) .

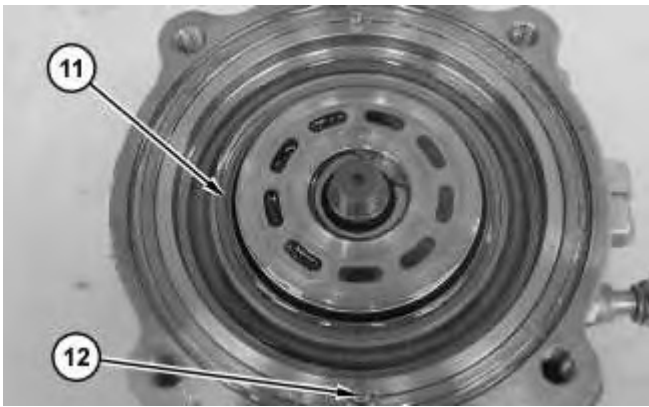


Illustration 26

g01228816

32. Install ring (11) and pins (12) .

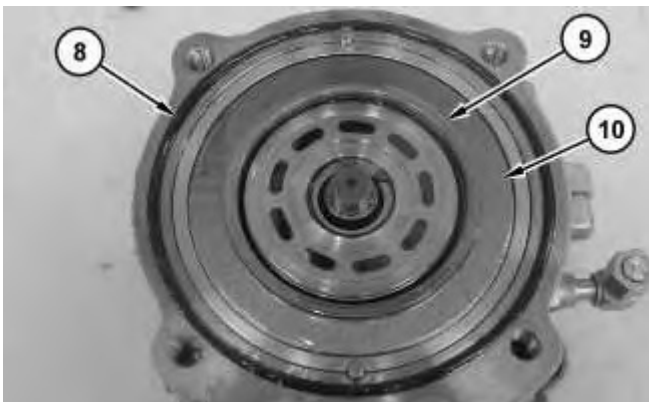


Illustration 27

g01228814

33. Install O-ring seal (8), spring washers (10), and ring (9) .

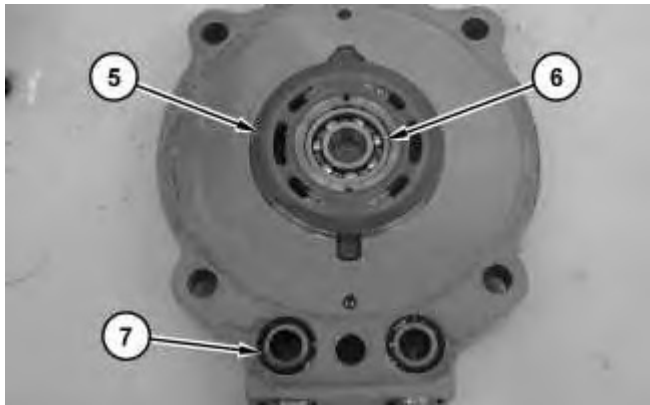


Illustration 28

g01228812

34. Install O-ring seals (7), bearing (6), and port plate (5) .



Illustration 29

g01228811

 **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.

35. Install head (4) and bolts (3) .
-



Illustration 30

g01228810

36. Install swing motor (1) and bolts (2) .

End By: Install the swing motor and the swing drive. Refer to , "Swing Motor and Swing Drive - Install".

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Disassembly and Assembly
303.5D CR, 304D CR, 305D CR and 305.5D CR Mini Hydraulic Excavators Machine
Systems

Media Number -UENR0102-01

Publication Date -01/12/2014

Date Updated -17/12/2014

i03983330

Swing Motor and Swing Drive - Install

SMCS - 5058-012-ZW; 5459-012-ZW

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	2
B	5P-3931	Anti-Seize Compound	1
C	-	Guide Stud M16 x 2 x 180mm	2

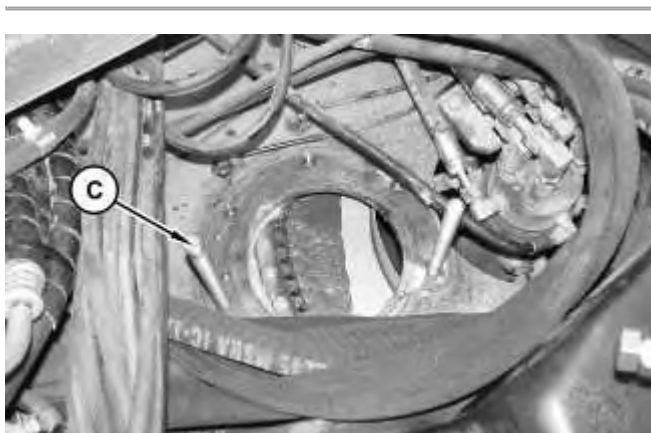


Illustration 1

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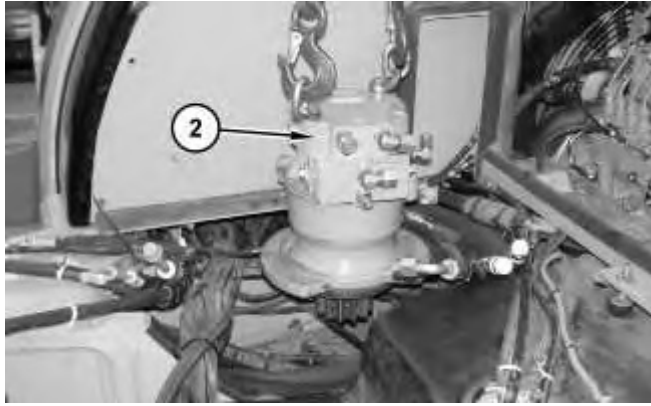


Illustration 2

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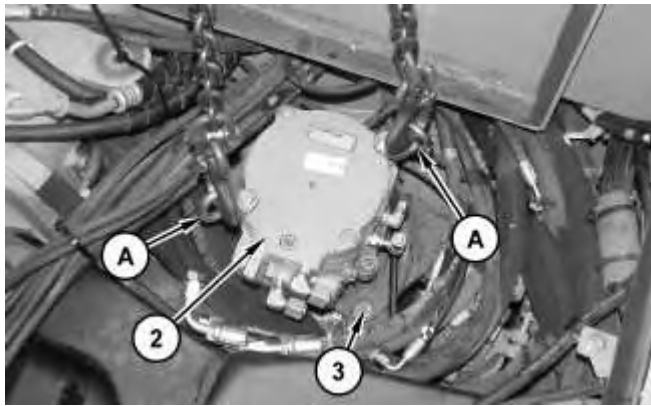


Illustration 3

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1. Attach Tooling (A) and a suitable lifting device to the swing motor and swing drive (2). The weight of the swing motor and swing drive (2) is approximately 61 kg (135 lb). Install the swing motor and swing drive (2). Apply Tooling (B) to bolts (3). Install bolts (3). Tooling (C) may be used in order to aid in the installation of the swing motor and swing drive (2) .

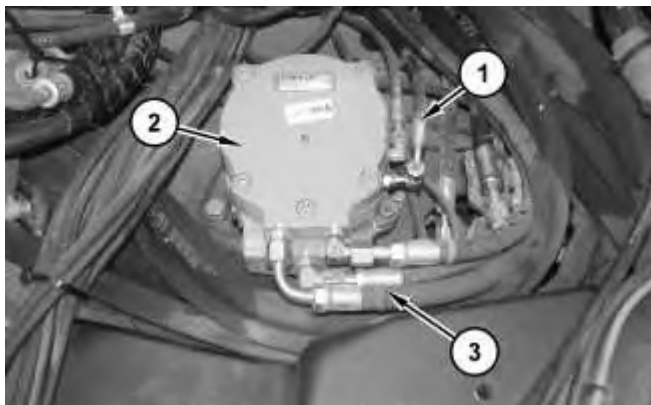


Illustration 4

g01228268

2. Connect hose assemblies (1) and (3) to the rear and from the left side of swing motor (2) .

End By: Install the platform. Refer to , "Platform - Install".

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Disassembly and Assembly

303.5D CR, 304D CR, 305D CR and 305.5D CR Mini Hydraulic Excavators Machine Systems

Media Number -UENR0102-01

Publication Date -01/12/2014

Date Updated -17/12/2014

i04003102

Hydraulic Tank - Remove

SMCS - 5056-011

S/N - FLZ1-UP

S/N - XER1-UP

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2

Start By:

- A. Remove the main control valve. Refer to, "Main Control Valve - Remove".

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.

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 in order to prevent fluid loss and to keep contaminants from entering the system.

Note: Cleanliness is an important factor. Before you begin the removal procedure, thoroughly clean the exterior of the components in order to prevent dirt from entering the internal mechanism.

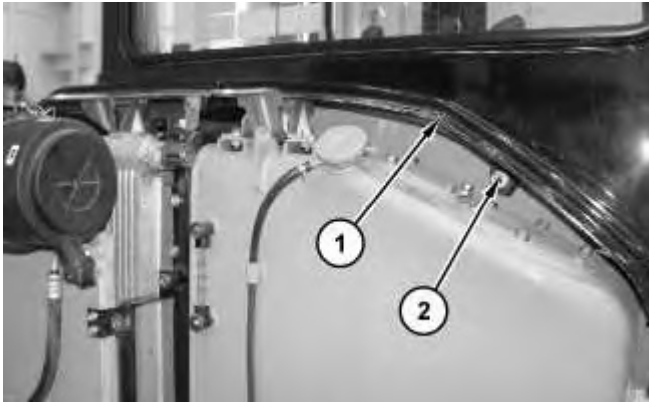


Illustration 1

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1. Remove bolts (2) and remove fender (1) .

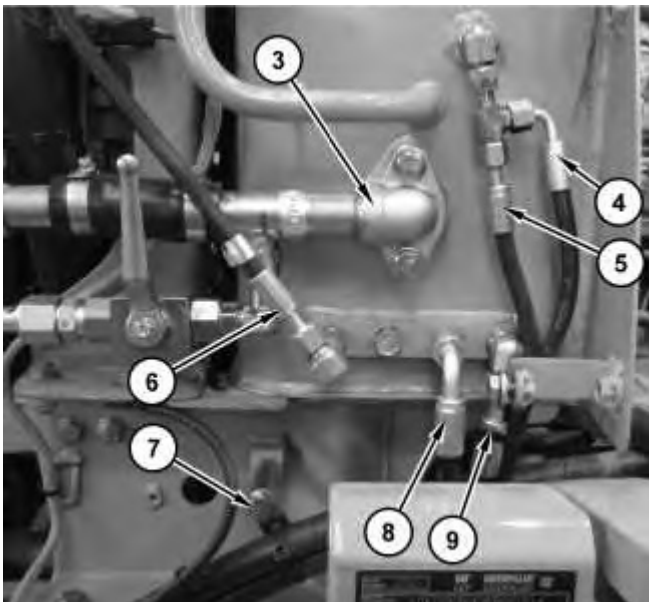


Illustration 2

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2. Remove hose assembly (6). Disconnect clamp (7). Disconnect hose assemblies (4), (5), (8), and (9). Remove tube assembly (3) .

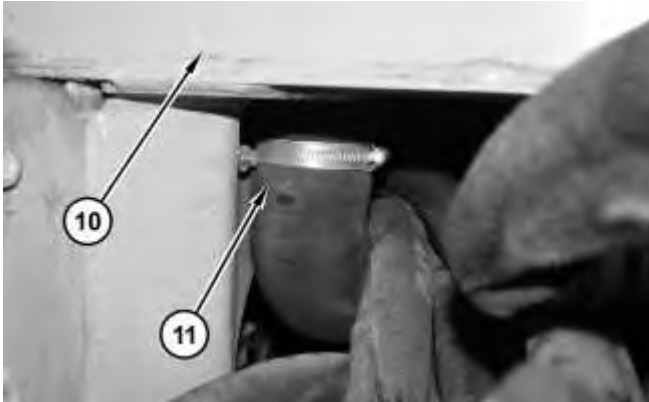


Illustration 3

g01222580

3. Disconnect hose (11) from the bottom of hydraulic oil tank (10) .

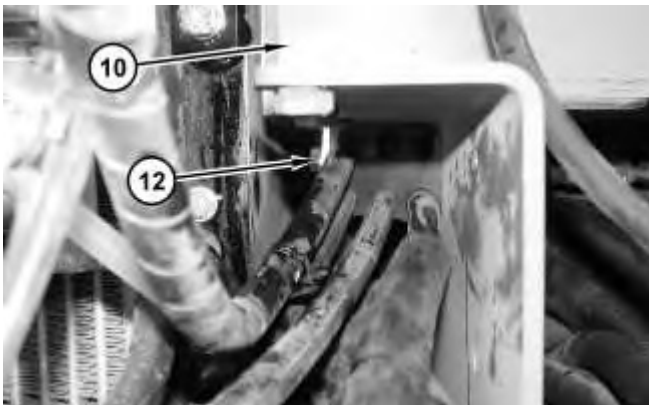


Illustration 4

g01222598

4. Disconnect clamp (12) from the bottom rear of hydraulic oil tank (10) .
-

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