CATERPILLAR®

Service Repair Manual

Models

365C L Excavator

Product: EXCAVATOR
Model: 365C EXCAVATOR PAR
Configuration: 365C L Hydraulic Excavator PAR00001-UP (MACHINE) POWERED BY C-15 Engine

Disassembly and Assembly
365C Excavator Machine Systems
Media Number -RENR8616-03 **Publication Date -01/08/2012** **Date Updated -24/08/2012**

i02387244

Travel Motor - Disassemble

SMCS - 4351-015

Disassembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	1P-1857	Retaining Ring Pliers	1
B	138-7573	Link Bracket	2
C	5P-4758	Retaining Ring Pliers As	1

Start By:

A. Remove the travel motor. Refer to Disassembly and Assembly, "Travel Motor - Remove".

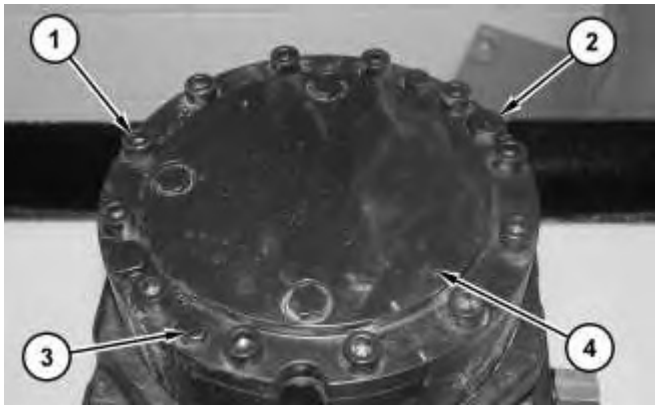

Illustration 1 g01191519

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.

1. Remove bolts (1) and bolts (3) .
2. Remove bolts (2) and cover (4) .

Illustration 2 g01191521

3. Remove springs (5) and brake assembly (6) .

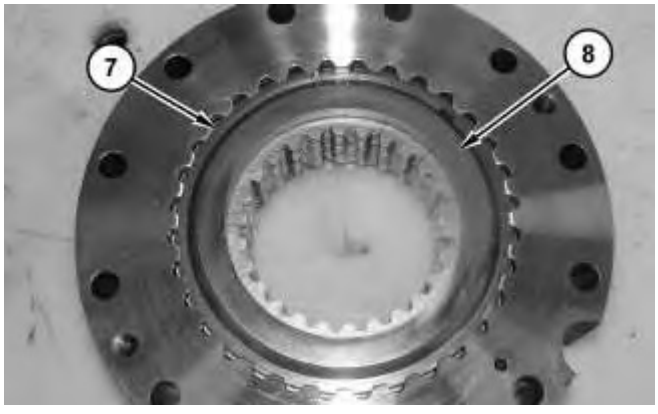

Illustration 3 g01191522

4. Remove retaining ring (7) and plate (8) .

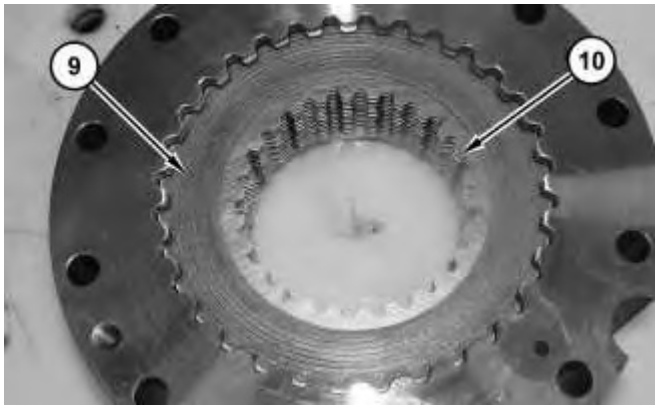

Illustration 4 g01191524

5. Remove plates (9) and discs (10) .

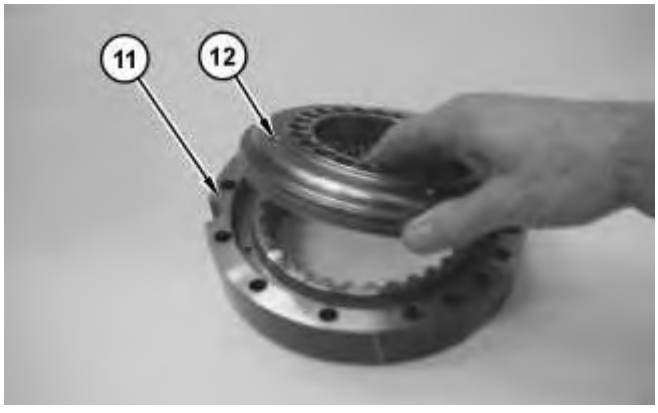

Illustration 5 g01191526

6. Remove piston (12) from housing (11) .

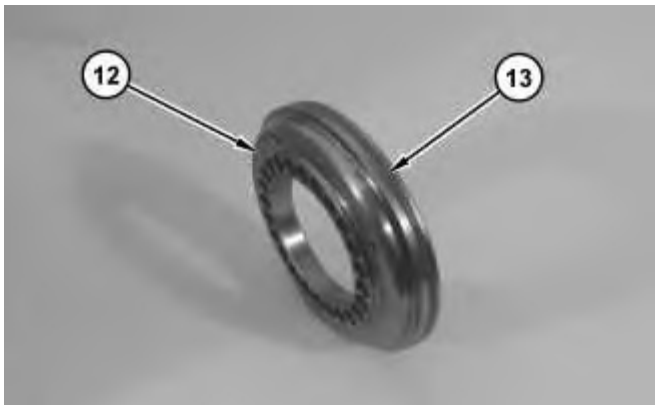

Illustration 6 g01191528

7. Remove seals (13) from piston (12) .

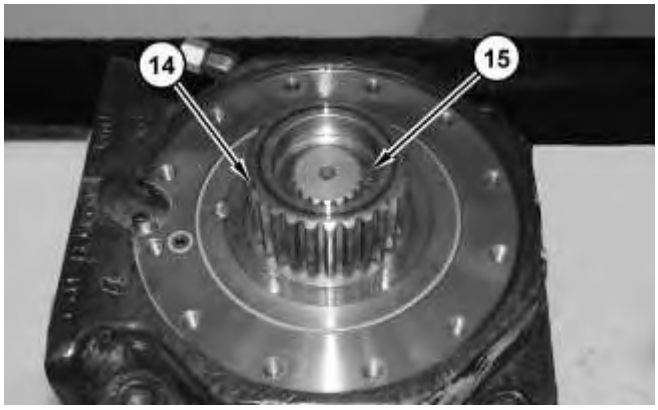

Illustration 7 g01191530

8. Use Tooling (A) in order to remove retaining ring (15) .
9. Remove gear (14) .

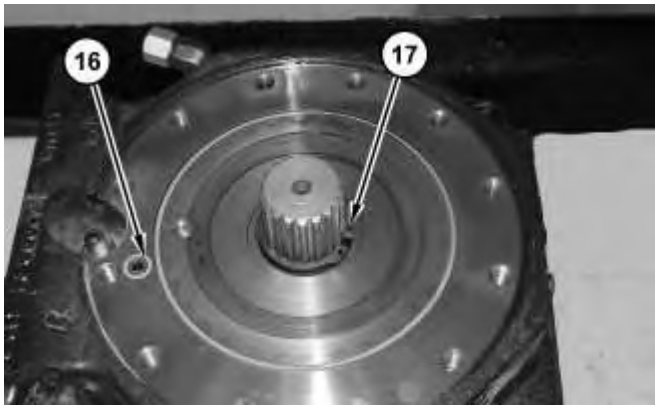

Illustration 8 g01191531

10. Use Tooling (A) in order to remove retaining ring (17) .
11. Remove O-ring seals (16) .

Illustration 9 g01191532

Illustration 10 g01191533

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.

12. Remove control rod (18) .

13. Remove bolts (19) .
14. Attach Tooling (B) and a suitable lifting device to head (20) .
15. Remove head (20) .

Illustration 11 g01191534

16. Remove O-ring seal (21), port plate (22), and bearing (23) .

Illustration 12 g01191536

17. Remove barrel assembly (24) .

Illustration 13 g01191537

18. Remove pistons (25), retainer (26), and bearing (27) .

Illustration 14 g01191538

19. Remove bevel washers (28) and shims (29) .

Illustration 15 g01191540

20. Use Tooling (C) in order to remove retaining ring (30) .

21. Remove cover (31) .

Illustration 16 g01191541

22. Remove O-ring seal (33) and lip seal (32) .

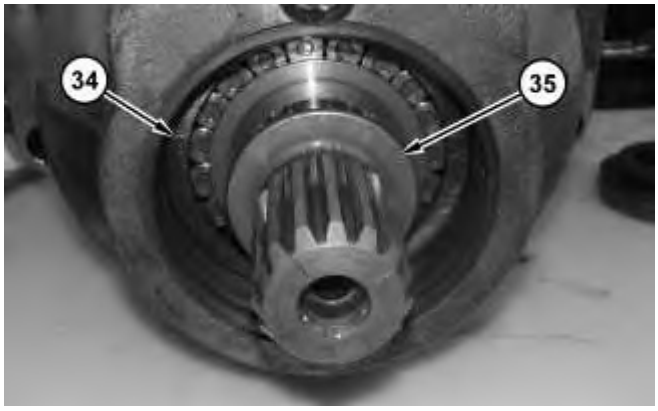

Illustration 17 g01191647

23. Remove shaft (35) and bearing (34) .

Illustration 18 g01191648

24. Use Tooling (A) in order to remove retaining ring (36) .

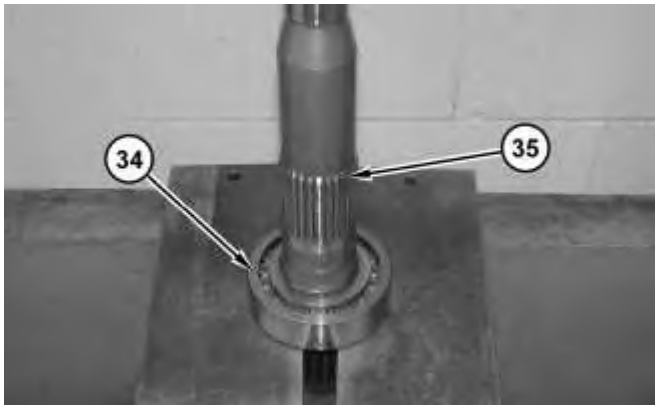

Illustration 19 g01191649

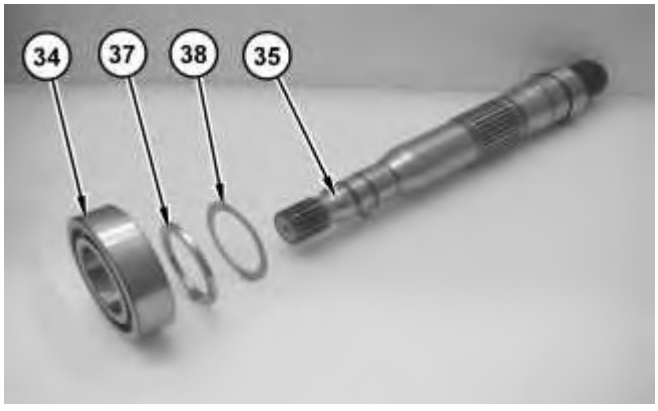

Illustration 20 g01191650

25. Use a suitable press in order to remove bearing (34) from shaft (35) .
26. Remove shim (37) and shim (38) .

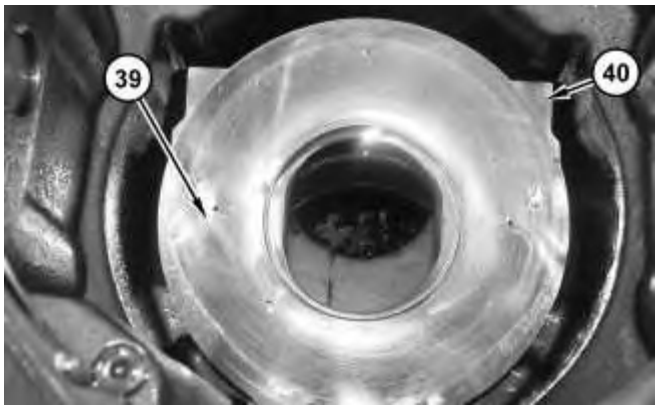

Illustration 21 g01191651

27. Remove plate (39) and swashplate (40) .

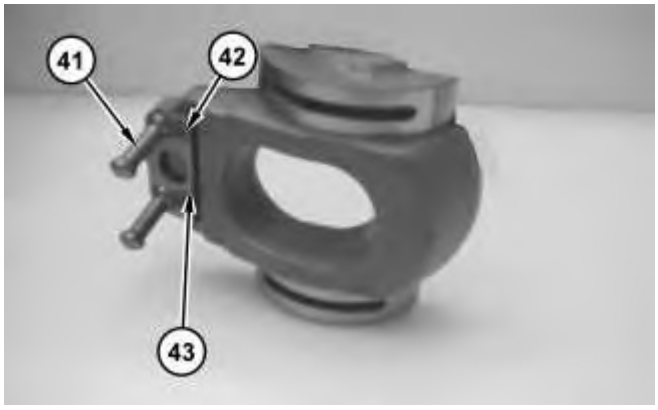

Illustration 22 g01191653

28. Remove bolts (42), plate (43), and pistons (41) .

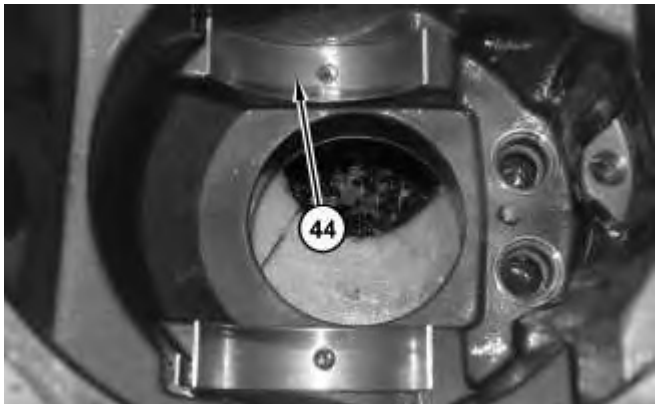

Illustration 23 g01191654

29. Remove bearings (44) .

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Disassembly and Assembly
365C Excavator Machine Systems
Media Number -RENR8616-03 **Publication Date -01/08/2012** **Date Updated -24/08/2012**

i04784123

Travel Motor - Assemble

SMCS - 4351-016

Assembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	1P-1857	Retaining Ring Pliers	1
B	138-7573	Link Bracket	2
C	5P-4758	Retaining Ring Pliers As	1
D	-	Feeler Gauge	4

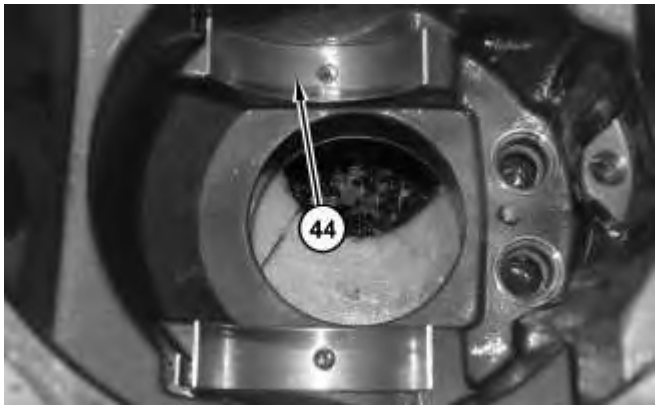

Illustration 1 g01191654

1. Install bearings (44) .

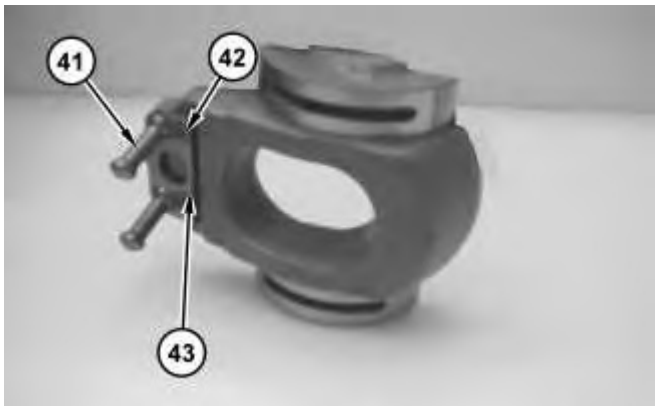

Illustration 2 g01191653

2. Install pistons (41) , plate (43) , and bolts (42) .

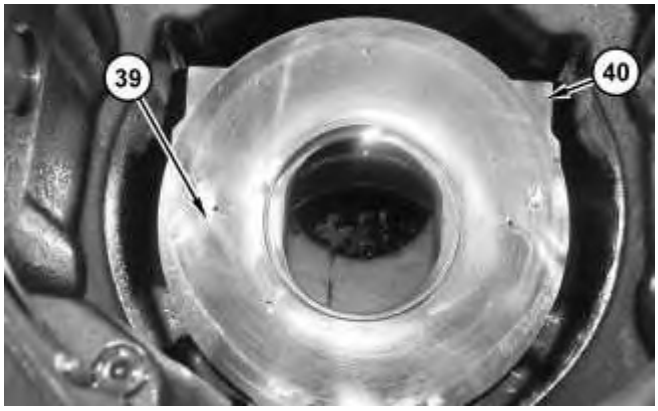

Illustration 3 g01191651

3. Install swashplate (40) and plate (39) .

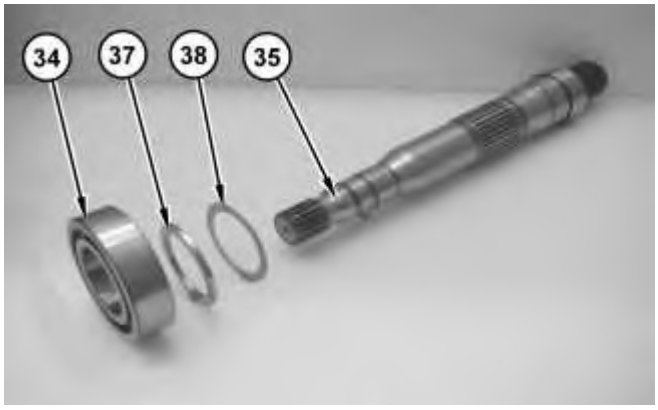

Illustration 4 g01191650

4. Raise the temperature of bearing (34) .
5. Install shim (38) and shim (37) .
6. Install bearing (34) onto shaft (35) .

Illustration 5 g01191648

7. Use Tooling (A) in order to install retaining ring (36) .

Illustration 6 g01191647

8. Install shaft (35) and bearing (34) .

Illustration 7 g01191541

9. Install O-ring seal (33) and lip seal (32) .

Illustration 8 g01191540

10. Install cover (31) .
11. Use Tooling (C) in order to install retaining ring (30) .

Illustration 9 g01191538

Note: Install the original number of shims (29) on the barrel.

12. Install shims (29) and bevel washers (28) .

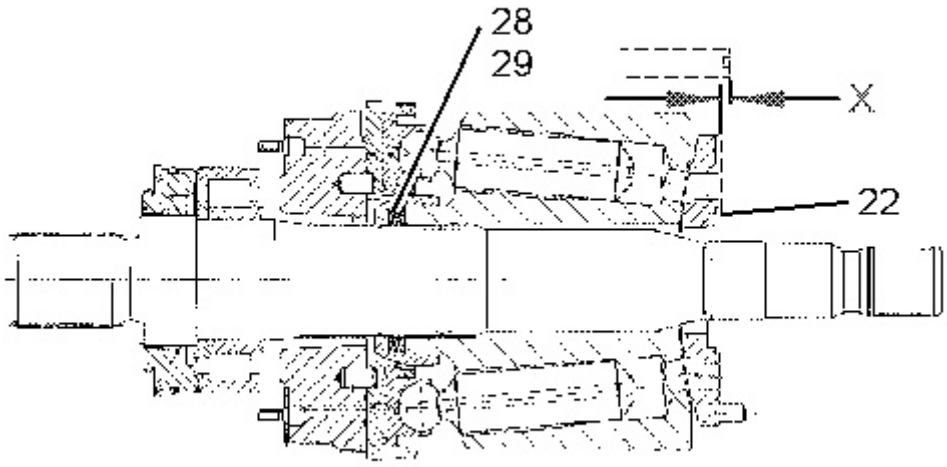

Illustration 10 g02893857

13. In order to determine the correct shims (29) are used, proceed with assembly through Step 15. Install port plate (22) . Use Tooling (D) in order to verify that Dimension (X) is 3.95 ± 0.20 mm (0.155 ± 0.008 inch). Take measurements in four locations simultaneously and adjust shims (29) accordingly.

Illustration 11 g01191537

14. Install bearing (27) , retainer (26) , and pistons (25) .

Illustration 12 g01191536

15. Install barrel assembly (24) .

Illustration 13 g01191534

16. Install bearing (23) , port plate (22) , and O-ring seal (21) .

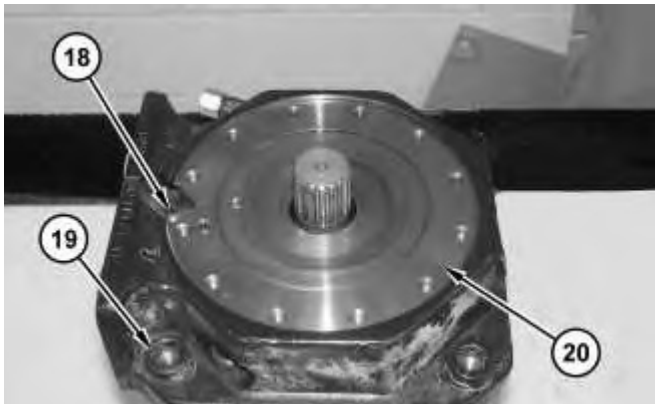

Illustration 14 g01191532

Illustration 15 g01191533

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.

17. Attach Tooling (B) and a suitable lifting device to head (20) .
18. Install head (20) .
19. Install bolts (19) .
20. Install control rod (18) .

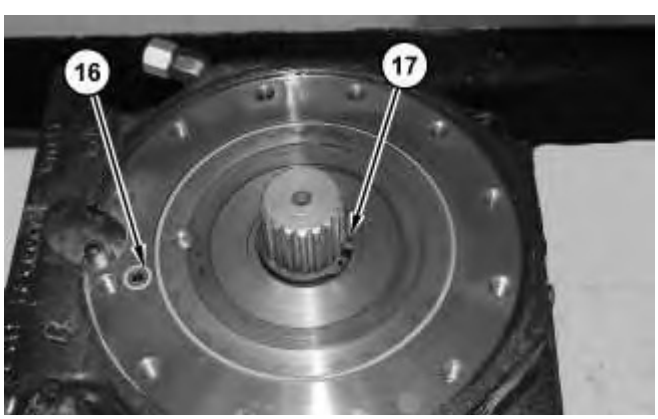

Illustration 16 g01191531

21. Use Tooling (A) in order to install retaining ring (17) .

22. Install O-ring seals (16) .

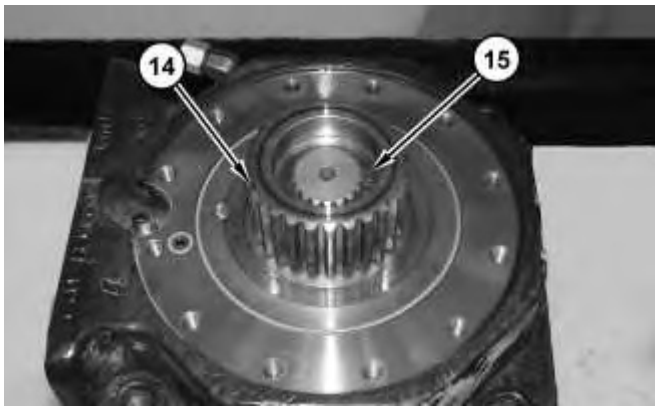

Illustration 17 g01191530

23. Install gear (14) .
24. Use Tooling (A) in order to install retaining ring (15) .

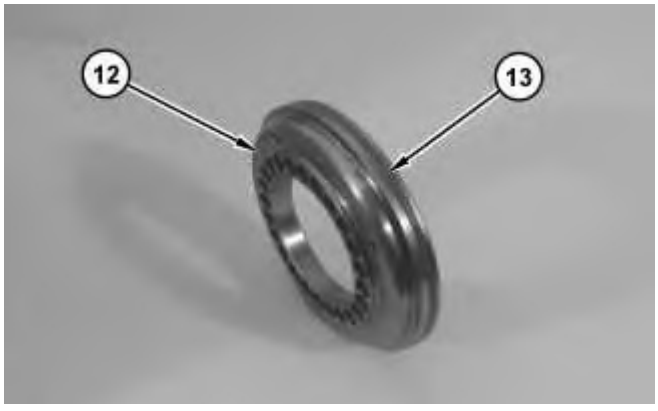

Illustration 18 g01191528

25. Install seals (13) onto piston (12) .

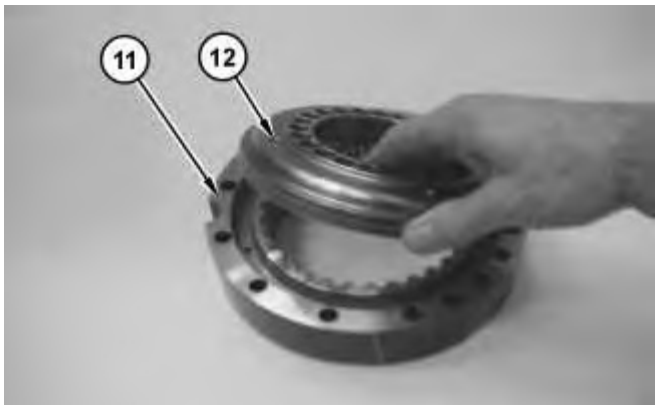

Illustration 19 g01191526

26. Install piston (12) into housing (11) .

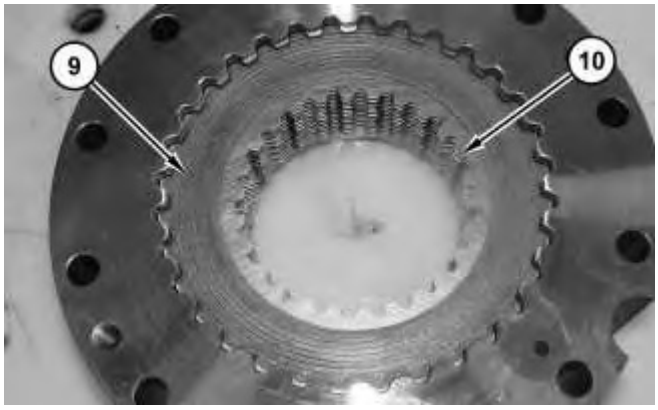

Illustration 20 g01191524

27. Install plates (9) and discs (10) .

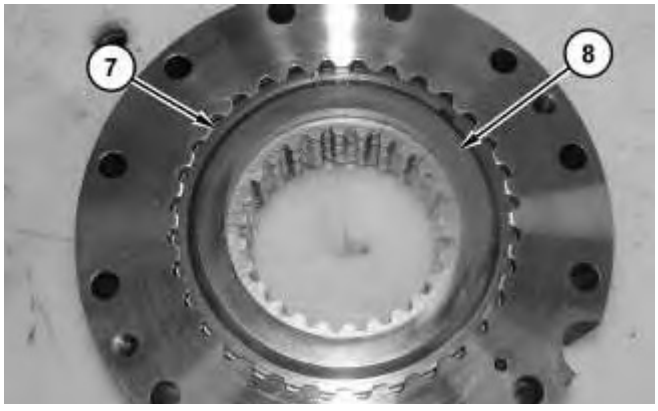

Illustration 21 g01191522

28. Install plate (8) and retaining ring (7) .

Illustration 22 g01191521

29. Install brake assembly (6) and springs (5) .

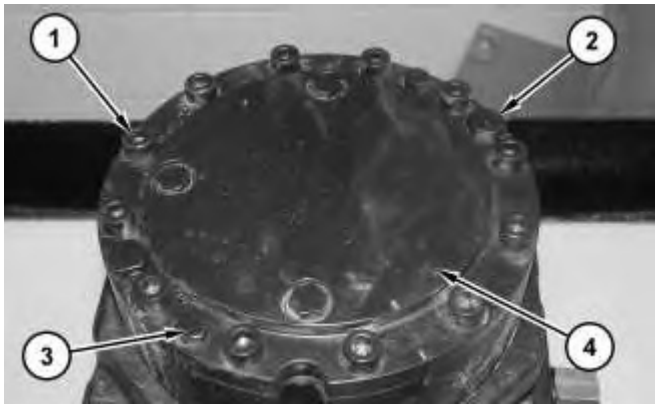

Illustration 23 g01191519

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.

30. Install cover (4) and bolts (2) .
31. Install bolts (1) and bolts (3) .

End By: Install the travel motor. Refer to Disassembly and Assembly, "Travel Motor - Install".

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Disassembly and Assembly
365C Excavator Machine Systems
Media Number -RENR8616-03 **Publication Date -01/08/2012** **Date Updated -24/08/2012**

i02795873

Travel Motor - Install

SMCS - 4351-012

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	-	Threaded Rod (M 20 by 2.5 by 18 inch)	2

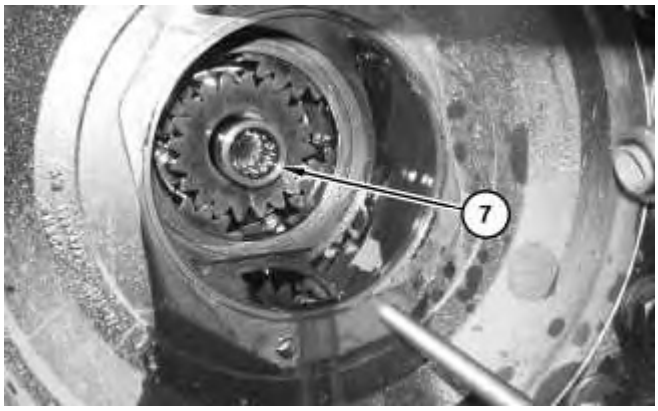

Illustration 1 g01192293

1. Install coupling (7) . Ensure that the counterbore of coupling (7) is facing toward the drive motor.

Illustration 2 g01192290

2. Use a suitable lifting device to position travel motor (6) onto Tooling (A) . The weight of travel motor (6) is approximately 125 kg (275 lb).
3. Slide travel motor (6) on Tooling (A) into position.

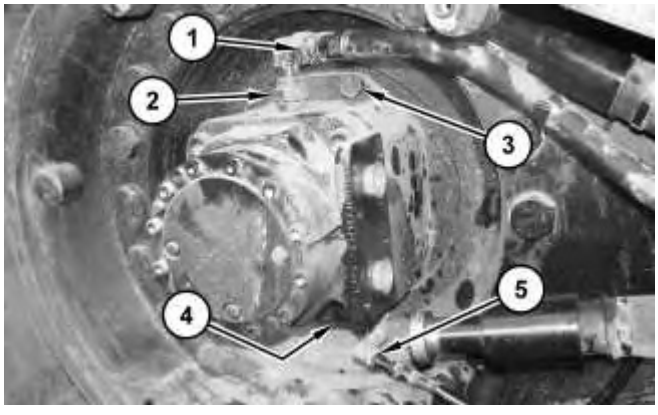

Illustration 3 g01192288

4. Install bolts (3) .
5. Remove Tooling (A) and the suitable lifting device.
6. Install bolts (2) and (4) .
7. Connect hose assemblies (1) and (5) .

End By: Install the counterbalance valve. Refer to Disassembly and Assembly, "Counterbalance Valve (Travel) - Install".

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Disassembly and Assembly
365C Excavator Machine Systems
Media Number -RENR8616-03 **Publication Date -01/08/2012** **Date Updated -24/08/2012**

i02388150

Final Drive - Remove

SMCS - 4050-011

Removal Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	132-8223	Power Pack	1
	132-8119	Hydraulic Torque Wrench Assembly	1

Start By:

A. Remove the final drive sprocket. Refer to Disassembly and Assembly, "Final Drive Sprocket - Remove and Install".
B. Remove the travel motor. Refer to Disassembly and Assembly, "Travel Motor - Remove".

Note: The final drive sprocket does not need to be removed prior to removal of the final drive. The sprocket should be removed in order to disassemble the final drive.

Note: The travel motor does not need to be removed prior to removal of the final drive. The travel motor should be removed in order to disassemble the final drive.

Note: The procedure to remove the right hand final drive and the procedure to remove the left hand final drive is identical. The procedure that follows is for one of the final drives.

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

Suggest:

If the above button click is invalid.

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first, and then click the above link

to download the complete manual.

Thank you so much for reading

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.

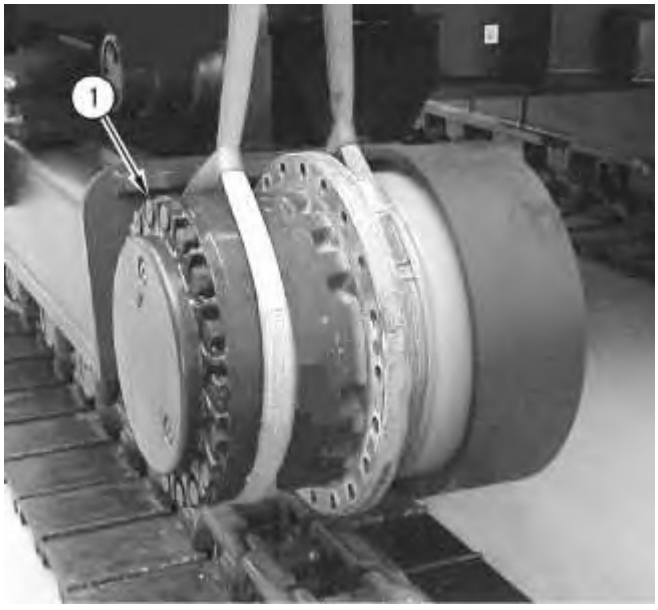

Illustration 1 g00595681

1. Attach a suitable lifting device to final drive (1). The weight of final drive (1) is approximately 817 kg (1800 lb).

Illustration 2 g00874668