CATERPILLAR®

Service Repair Manual

Models

329DL EXCAVATOR

Product: EXCAVATOR
Model: 329D L EXCAVATOR WLT
Configuration: 329D L Excavator WLT00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly

324D, 325D, 326D and 329D Excavators and 329D MHPU Mobile Hydraulic Power Unit Machine Systems

Media Number -RENR8646-22 **Publication Date -01/02/2015** **Date Updated -12/09/2018**

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Recoil Spring - Disassemble

SMCS - 4158-015

Disassembly Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**QTY**
A	4C-9540	Recoil Spring Bench	1
B	146-2457	Hydraulic Power Supply Gp	1
	223-3506	Hydraulic Cylinder and Lines Gp	1
C	8S-9971	Adapter	1

Table 2

Required Sockets	
Thread	**Socket Part Number**
M36	138–5189
M42	4C-4467
	193–8100 (1)
M48	5S-6081
	FT-3033 (2)
	371–1080 (3)
M64	5S-6086

(1) Used with M42 flat sided nut.

(2) Used with M48 flat sided nut that is 54 mm (2.13 inch) between the two flats.

(3) Used with M48 flat sided nut that is 65 mm (2.56 inch) between the two flats.

Start By:

a. Remove the front idler and the recoil spring assembly.

WARNING

The spring of the recoil spring assembly is compressed under several tons of force.

Do not attempt to compress or release the tension of the spring with the nut on the end of the retaining rod.

Damaged threads on the retaining rod or nut can cause the assembly to come apart with force, resulting in injury or death.

1. Prior to disassembling the recoil spring assembly, make sure that Tooling (A) is on a level surface.
2. Prior to disassembling the recoil spring thoroughly clean the outside surface.

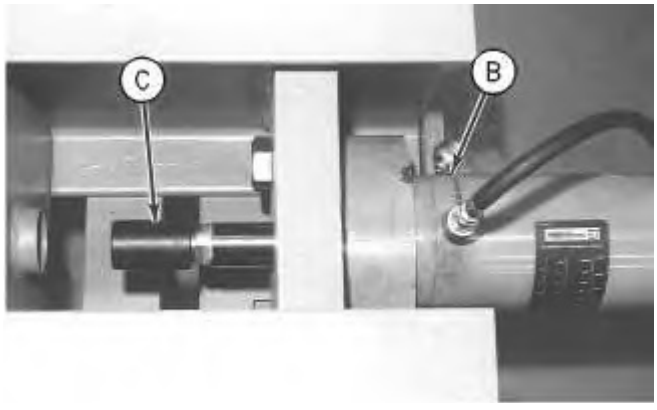

Illustration 1 g00483426

3. Install Tooling (C) on Tooling (B), as shown.

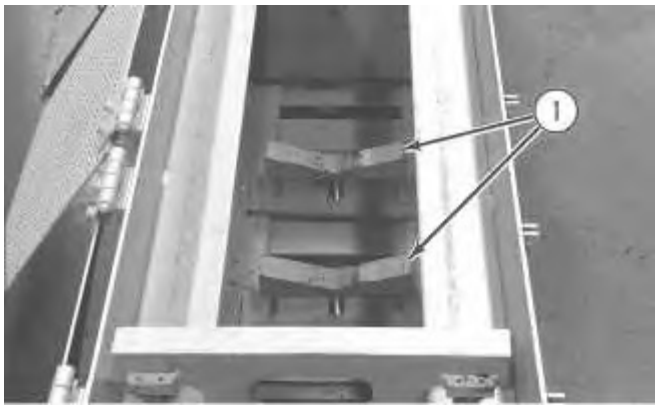

Illustration 2 g00494710

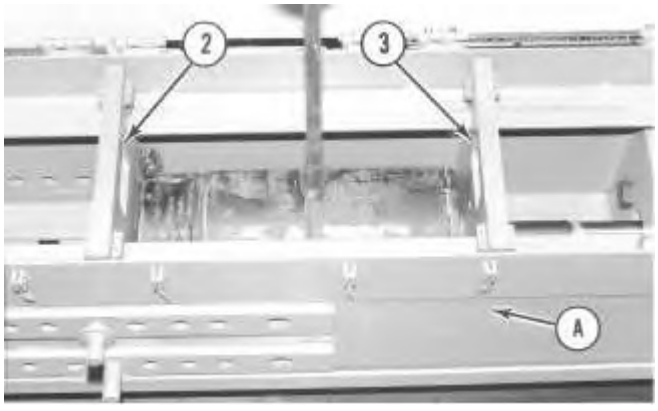

Illustration 3 g00483437

Note: Two adjustable supports (1), reaction plate (2), and movable plate (3) are part of Tooling (A).

4. Adjust the spacing between reaction plate (2) and movable plate (3). The spacing is approximately the same length as the recoil spring assembly (free length). Also, make sure that two adjustable supports (1) are positioned between the reaction plate and the movable plate, as shown. Level the two supports.

   Note: The recoil spring assembly may be installed in Tooling (A) from the end. In this case, reaction plate (2) must be removed. Then reinstall the reaction plate after the recoil spring assembly is in place on two adjustable supports (1).

NOTICE

Do not remove the hoist from the recoil spring assembly until the unit is leveled, centered and locked in the specified tooling.

5. The combined weight of the recoil spring assembly is approximately 116 kg (255 lb).

6. Fasten a suitable lifting device to the recoil spring assembly. Put the recoil spring assembly in position on two adjustable supports (1) in Tooling (A).

7. Adjust the two adjustable supports to align the centerline of the recoil spring assembly with the centerline of Tooling (A).

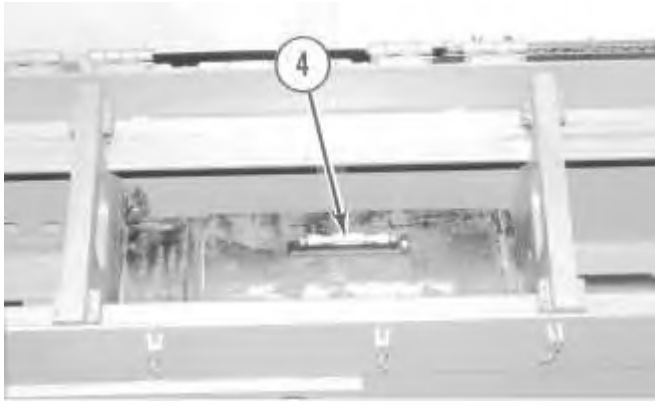

Illustration 4 g00498760

The hoist has been removed from the recoil spring assembly to provide a better illustration of level gauge (4).

8. Put a level gauge (4) on the recoil spring assembly.

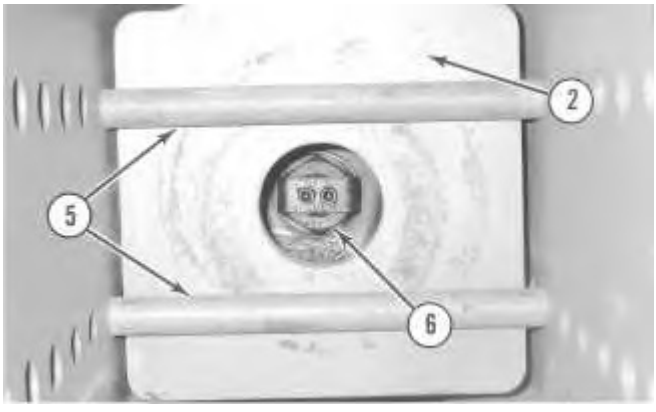

Illustration 5 g00498781

9. Reposition the recoil spring assembly until the recoil spring assembly is level. Reposition the recoil spring assembly until the retaining rod and nut (6) are centered in the hole in reaction plate (2).

10. The recoil spring assembly is leveled by moving adjustable supports (1) higher or lower. After the recoil spring assembly is leveled and centered, install two pins (5) on the back side of reaction plate (2), as shown.

11. Operate Tooling (B) to hold the recoil spring assembly in position between reaction plate (2) and movable plate (3) (not shown). Make sure that the recoil spring assembly is level and centered.

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