

Product: MULTI TERRAIN LOADER

Model: 277 MULTI TERRAIN LOADER CNC

Configuration: 267 277 Multi Terrain Loader CNC00001-UP (MACHINE) POWERED BY 3034 Engine

Disassembly and Assembly 267, 277 and 287 Multi Terrain Loaders Machine Systems

Media Number -REN4816-03

Publication Date -01/10/2009

Date Updated -29/10/2009

i01989030

Quick Coupler - Remove and Install - Hydraulic

SMCS - 6129-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	140-7742	Sleeve	2
ZZ	6V-9507	Face Seal Plug	4
	6V-9828	Cap As	4

Start By:

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

Note: SERVICE DATA: TOOLING (ZZ) WILL NOT BE IDENTIFIED IN PHOTOGRAPHS IN THE REMOVAL OR THE INSTALLATION. THIS TOOLING IS SHOWN IN ORDER TO ASSIST THE EXPERIENCED SERVICEMAN.



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

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, "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.

Note: Cleanliness is an important factor. Before you begin the disassembly procedure, the exterior of the components should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Precision components can be damaged by contaminants or by dirt. Perform disassembly procedures on a clean work surface. Keep components covered and protected at all times.

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.

1. Remove the work tool. Refer to Operation and Maintenance Manual, "Work Tool Coupler Operation".

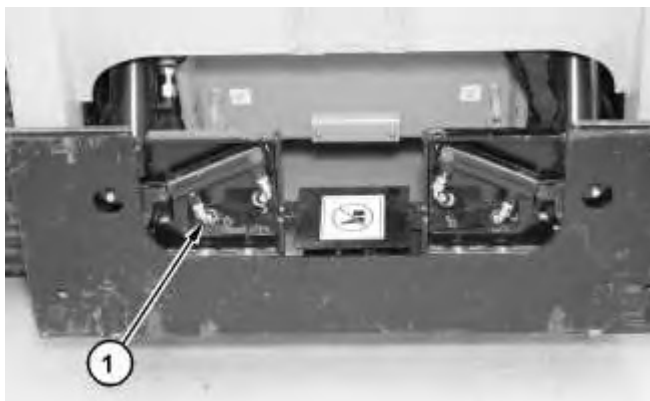


Illustration 1

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2. Disconnect hose assemblies (1) .

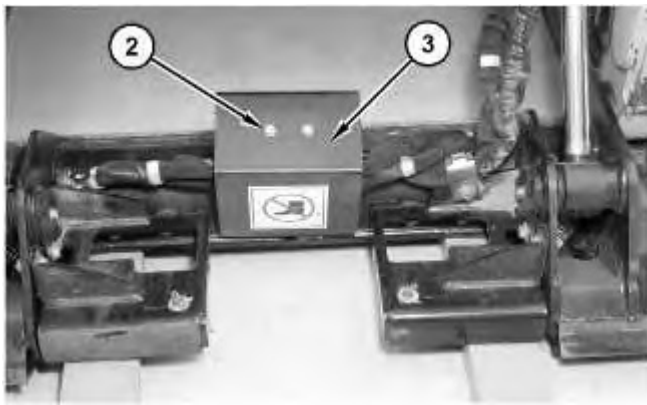


Illustration 2

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3. Position the quick coupler on blocks, as shown. Remove bolts (2) and guard (3) .

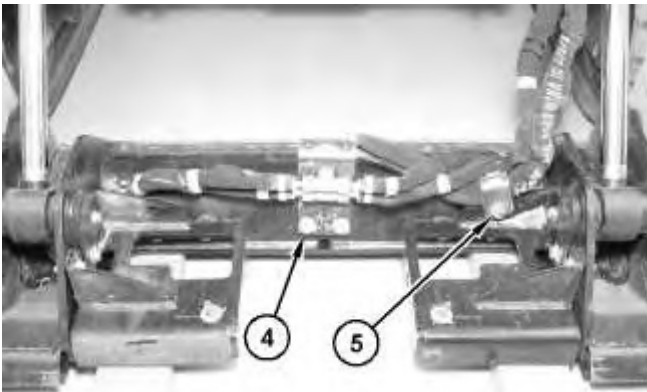
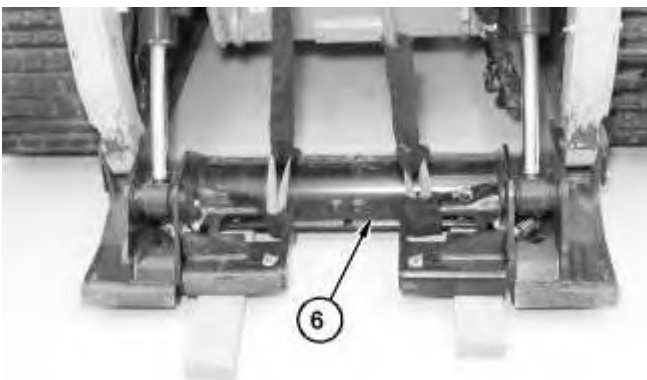


Illustration 3

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4. Remove bolts (4) and bolt (5). Reposition the hose assemblies out of the way.



5. Attach Tooling (A) and a suitable lifting device to quick coupler (6). The weight of the quick coupler is approximately 98 kg (215 lb).



Illustration 5

6. Remove bolt (8) and pin assembly (7) .

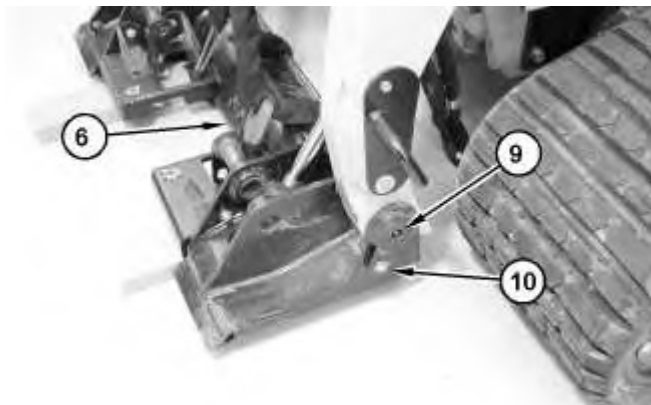


Illustration 6

7. Remove bolt (10) and pin assembly (9) .
8. Repeat Step 6 and Step 7 for the other side.
9. Use the suitable lifting device to remove quick coupler (6). The weight of quick coupler (6) is approximately 98 kg (215 lb).

Installation Procedure

Table 2

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Required Tools

Tool	Part Number	Part Description	Qty
A	140-7742	Sleeve	2
B	5P-0960	Molybdenum Grease	1

Note: The pins, the bores, and the bearings must be clean before assembling.

1. Apply Tooling (B) in order to lubricate the pins, the bores, and the bearings before assembling.

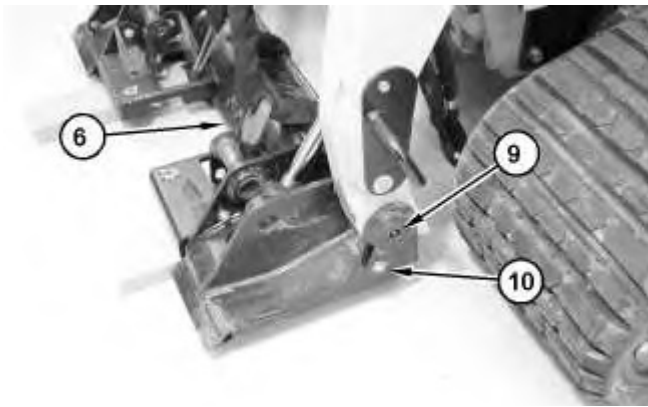


Illustration 7

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2. Attach Tooling (A) and a suitable lifting device to quick coupler (6). The weight of quick coupler (6) is approximately 98 kg (215 lb). Position quick coupler (6). Use blocks to support the quick coupler.
3. Install pin assembly (9) and bolt (10) .



Illustration 8

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4. Install pin assembly (7) and bolt (8) .

5. Repeat Step 3 and Step 4 for the other side.
6. Remove the suitable lifting device and Tooling (A) .

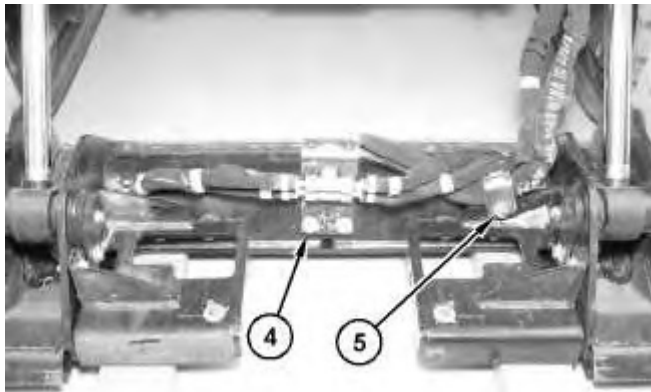


Illustration 9

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7. Reposition the hose assemblies and install bolts (4) and bolts (5) .

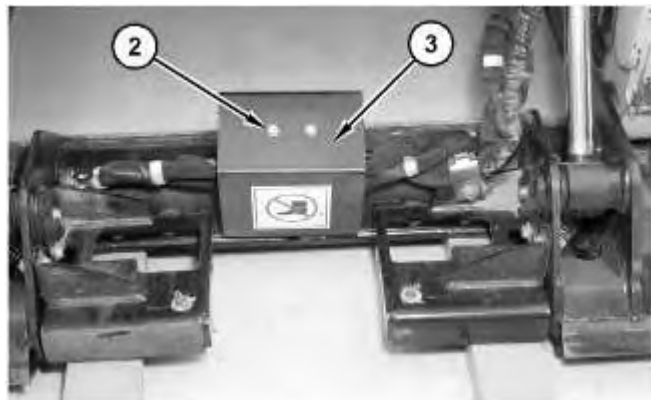


Illustration 10

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8. Install guard (3) and bolts (2) .
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