

Product: TRUCK

Model: 777F TRUCK JXP

Configuration: 777F OEM Off-Highway Truck JXP00001-UP (MACHINE) POWERED BY C32 Engine

Disassembly and Assembly 777F OEM Off-Highway Truck Machine Systems

Media Number -KENR8186-04

Publication Date -01/09/2018

Date Updated -26/09/2018

i07414949

Rear Suspension (Cylinder) - Remove

SMCS - 7213-011-RE

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	504-9826	Lift Gp (50/60 Hz) ⁽¹⁾	2
	OR		
	504-9827	Lift Gp (50/60 Hz) ⁽²⁾	2
B	160-2247	Abrasion Sleeve	2
C	8S-7640	Stand	1
	8S-7621	Tube	1
	8S-8048	Saddle	1
D	136-1452	Pliers	1
E	9U-5343	Puller Stud	1
	316-1494	Puller Cylinder	1
	350-7768	Pump	1
	7X-0851	Nut	2
	6V-8237	Washer	2
	1M-6756	Sleeve	1
	1U-6217	Adapter	1

⁽¹⁾ High-Voltage (380-500V)

⁽²⁾ Low-Voltage (180-300V)

Start By:

- a. Install wheel chocks. Refer to Disassembly and Assembly, "Wheel Chocks - Install".
1. Purge the rear suspension cylinders. Refer to Testing and Adjusting, "Suspension Cylinder - Purge".

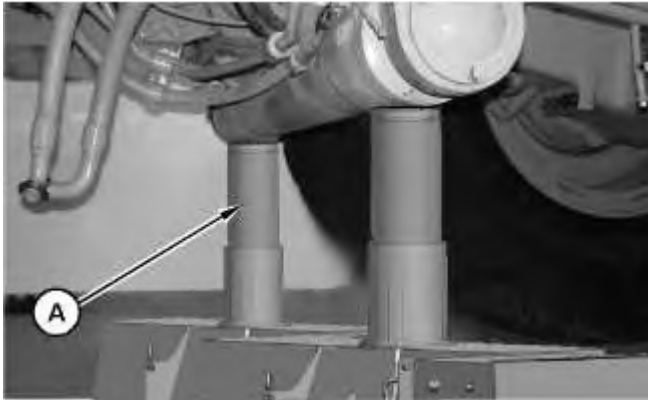


Illustration 1

g06314223

2. Position Tooling (A) under the machine, as shown. Use Tooling (A) to support the machine. Refer to Tool Operating Manual, NEHS1328, "Lift Group (Stand - 60 Ton)" for more information on Tooling (A).

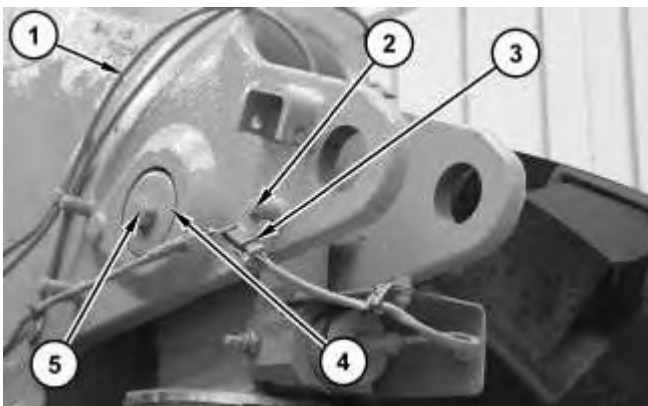


Illustration 2

g01322377

3. Disconnect grease hose assembly (1). Remove bolt (2). Disconnect harness assembly (3). Position harness assembly (3) out of the way.
4. Remove bolt (5). Remove washers (4).

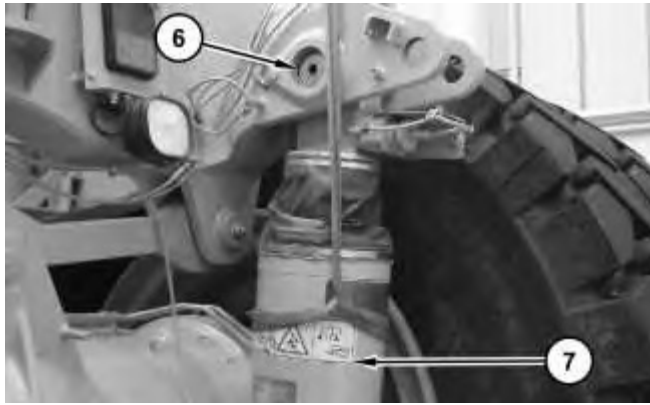


Illustration 3

g01322381

5. Attach a suitable lifting device to suspension cylinder (7). The weight of suspension cylinder (7) is approximately 295 kg (650 lb).
6. Remove pin (6).

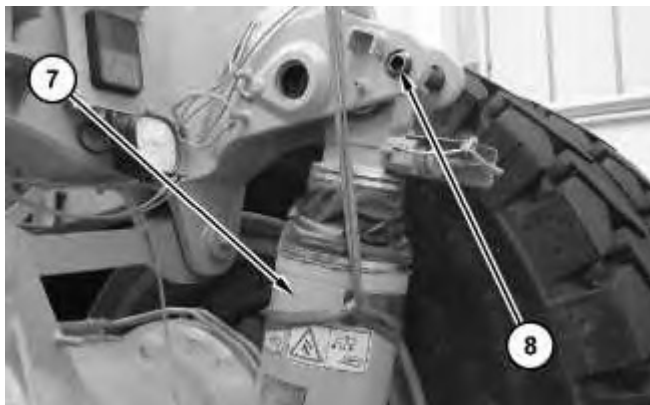


Illustration 4

g01322672

7. Install body retaining pin (8).
8. Position suspension cylinder (7) against body retaining pin (8).

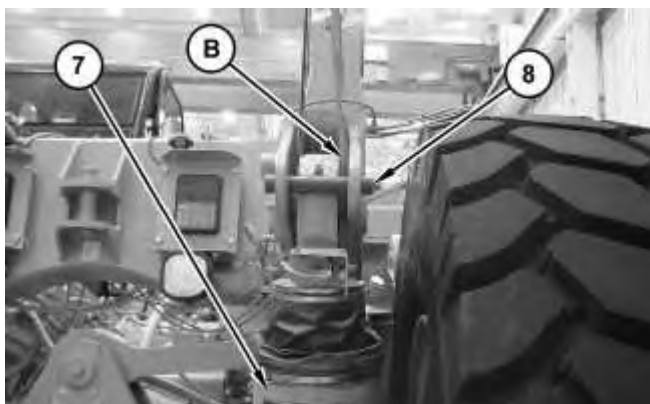


Illustration 5

g01322429

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9. Attach Tooling (B) and a suitable lifting device onto suspension cylinder (7). Remove body retaining pin (8).

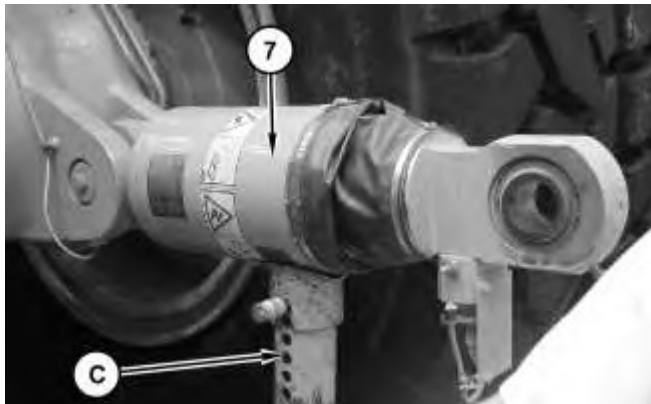


Illustration 6

g01322430

10. Position suspension cylinder (7) onto Tooling (C).

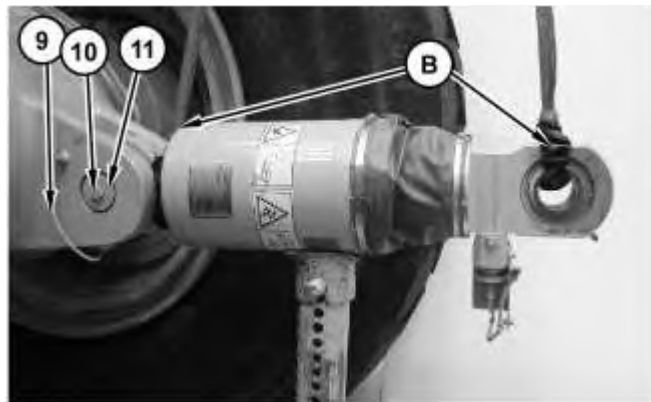
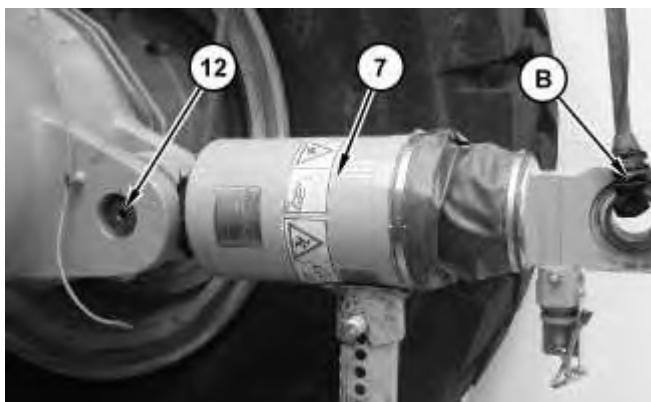


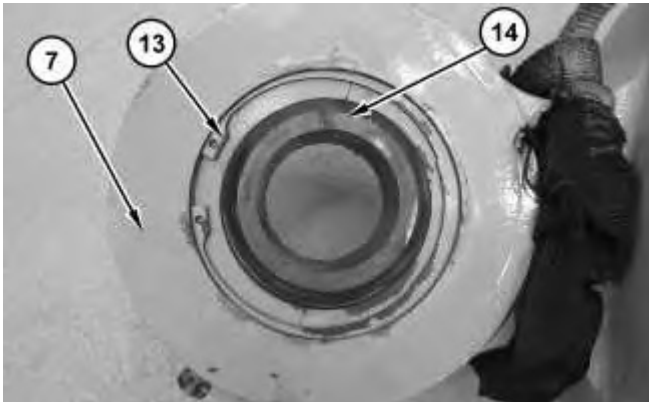
Illustration 7

g01322432

11. Attach a suitable lifting device and Tooling (B) onto suspension cylinder (7). The weight of suspension cylinder (7) is approximately 295 kg (650 lb).
12. Disconnect grease hose assembly (9).
13. Remove bolt (10). Remove washers (11).



14. Remove pin (12). Remove suspension cylinder (7).



15. Use Tooling (D) to remove retaining ring (13).
 16. Repeat Step 15 for the other side.
 17. Install Tooling (E) to remove bearing (14).
 18. Repeat Steps 15 through Step 17 for the opposite end.
-

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i02668859

Rear Suspension (Cylinder) - Disassemble

SMCS - 7213-015-RE

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	127-4904 or 152-4252 ⁽¹⁾	Hydraulic Cylinder Repair Stand	1
B	6F-5281	Bolt	2
B	1F-7958	Full Nut	2
C	136-1452	Internal Tip Pliers	1

⁽¹⁾ This part number complies with European certification requirements.

Start By:

- Remove the rear suspension cylinder. Refer to Disassembly and Assembly, "Rear Suspension (Cylinder) - Remove".



WARNING

High pressure cylinder. Do not remove any parts until pressure has been relieved or personal injury may occur.

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.

1. Verify that the nitrogen in the rear suspension cylinder is discharged. Refer to Suspension Cylinder, System Operation, Testing and Adjusting, "Suspension Cylinder (Rear) - Purge and Charge" for the correct procedure to discharge the nitrogen from the rear suspension cylinder.
2. Position a suitable container below the rear suspension cylinder in order to contain the oil for storage or for disposal. Drain the oil in the rear suspension cylinder into the suitable container.

Note: Remove the plate for the payload pressure sensor (if equipped) before you install the rear suspension cylinder on Tooling (A).

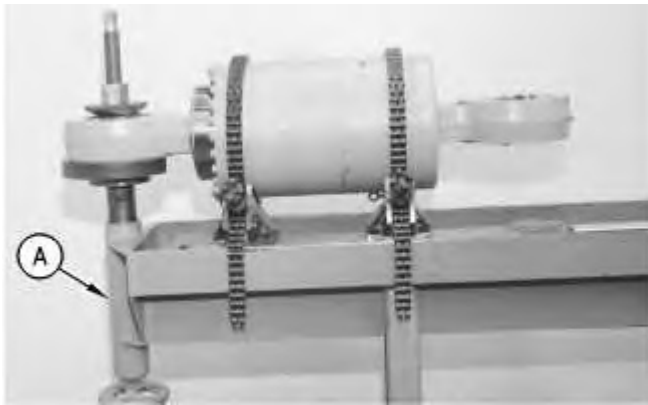


Illustration 1

g00649291

3. Install the rear suspension cylinder on Tooling (A), as shown. The weight of the rear suspension cylinder is 288 kg (636 lb).
-

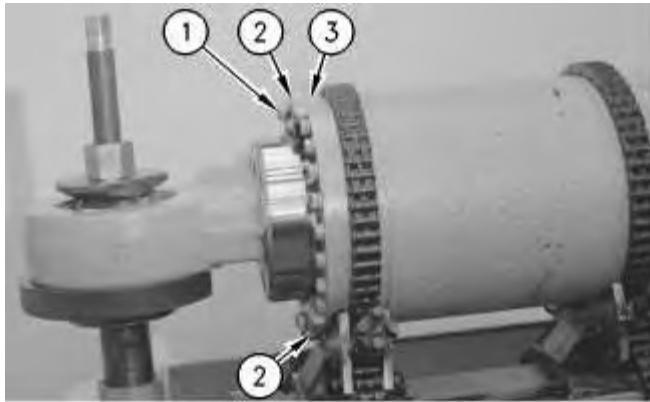


Illustration 2

g00649298

4. Remove bolts (1) from head (3). Remove covers (2) from the head. Remove the O-ring seal (not shown) from each cover.

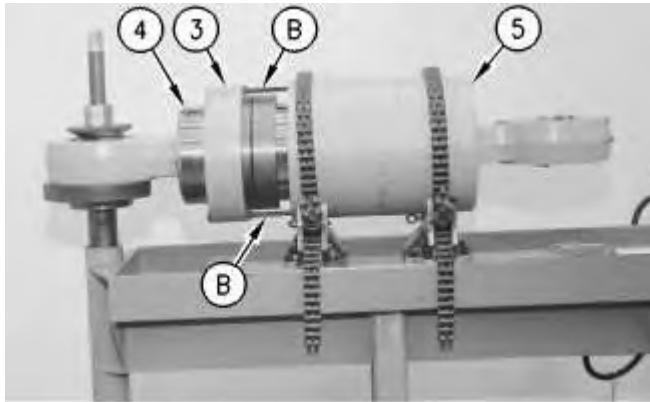


Illustration 3

g00649311

5. Label head (3) and cylinder assembly (5) for assembly purposes. Separate rod assembly (4) and head (3) as a unit from cylinder assembly (6).
6. Install Tooling (B), as shown. Push the rod assembly (4) through head (3) and into cylinder assembly (5). Remove Tooling (B) and remove head (3) from rod assembly (4). The weight of the head is approximately 27 kg (60 lb).

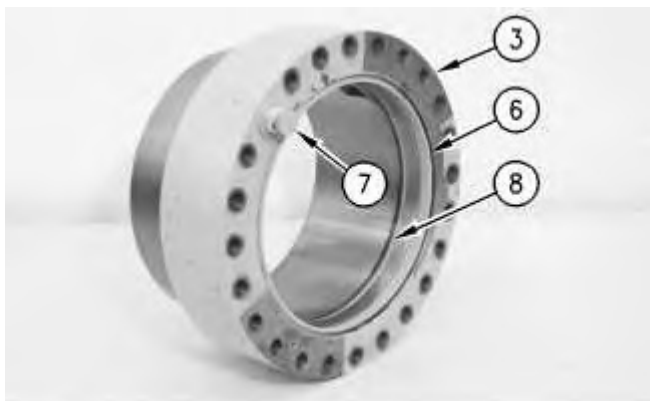


Illustration 4

g00649315

- Remove lip seal (6) and U-cup seal (8) from head (3). Remove relief valve (7) and the washer from the head.

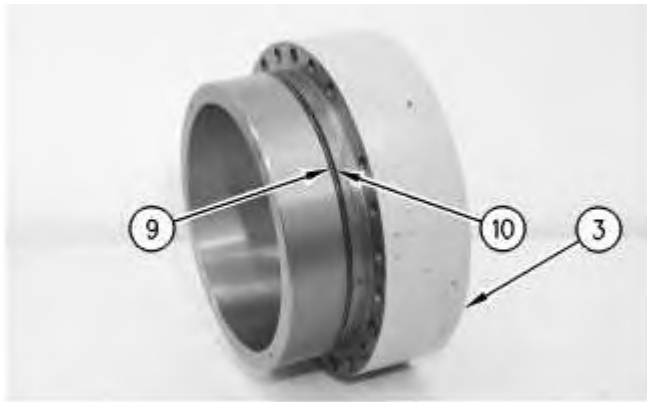


Illustration 5

g00649316

- Remove O-ring seal (9) and backup ring (10) from head (3).

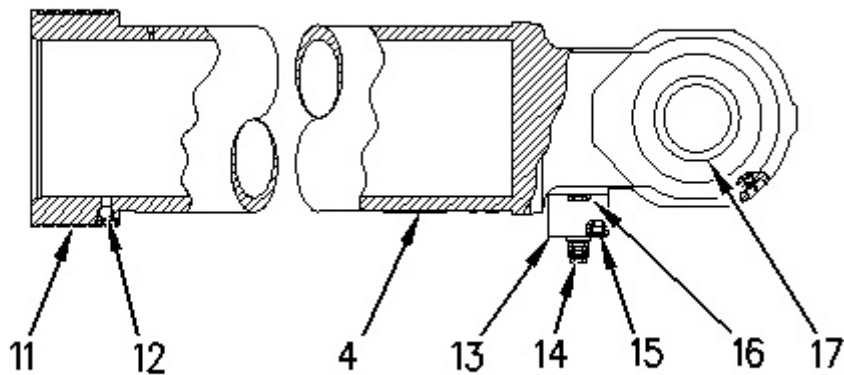


Illustration 6

g00702957

- Remove rod assembly (4) from the cylinder assembly. The weight of the rod assembly is approximately 98 kg (216 lb). Remove wear ring (11) and ball (12) from rod assembly (4).
 - Remove bolts (15) and remove cover (13). Remove plug (14) and the manifold (not shown) from rod assembly (4). Remove O-ring seal (16) from the manifold.
 - Use Tooling (C) (not shown) in order to remove the two lockrings (not shown) that hold spherical bearing (17) in rod assembly (4). Use a suitable press in order to remove spherical bearing (17) from rod assembly (4).
-

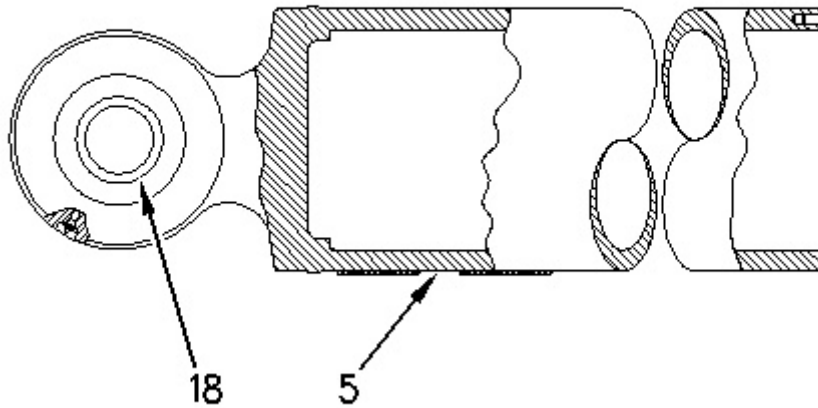


Illustration 7

g00703172

12. Use Tooling (C) (not shown) in order to remove the two lockrings (not shown) that hold spherical bearing (18) in cylinder assembly (5). Use a suitable press in order to remove spherical bearing (18) from cylinder assembly (5).
-

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i02668876

Rear Suspension (Cylinder) - Assemble

SMCS - 7213-016-RE

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	136-1452	Internal Tip Pliers	1
B	127-4904 or 152-4252 ⁽¹⁾	Hydraulic Cylinder Repair Stand	1

⁽¹⁾ This part number complies with European certification requirements.

Note: Check all of the O-ring seals and the components for wear or for damage. Replace the components, if necessary. Lubricate all of the O-ring seals lightly with the lubricant that is being sealed. Clean all of the components with a cloth that is free of loose material (lint).

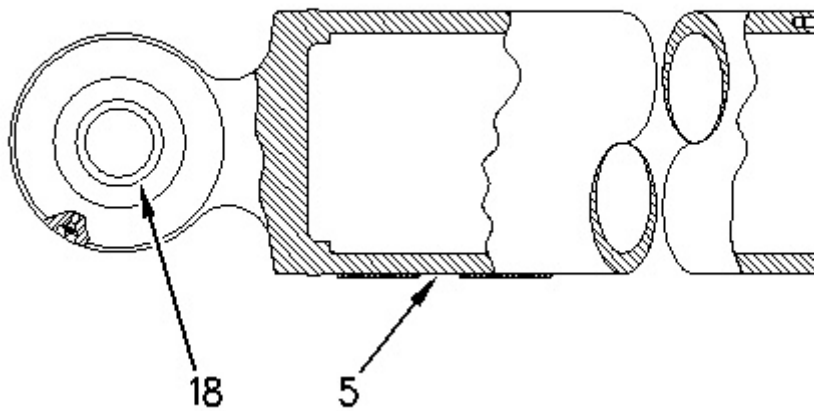


Illustration 1

g00703172

1. Use Tool (A) (not shown) in order to install one of the lockrings (not shown) that holds spherical bearing (18) in position in cylinder assembly (5).
2. Lower the temperature of spherical bearing (18). Position spherical bearing (18) into cylinder assembly (5) until the spherical bearing is seated against the locking ring.
3. Use Tooling (A) (not shown) in order to install the remaining locking ring (not shown) that holds spherical bearing (18) in position.

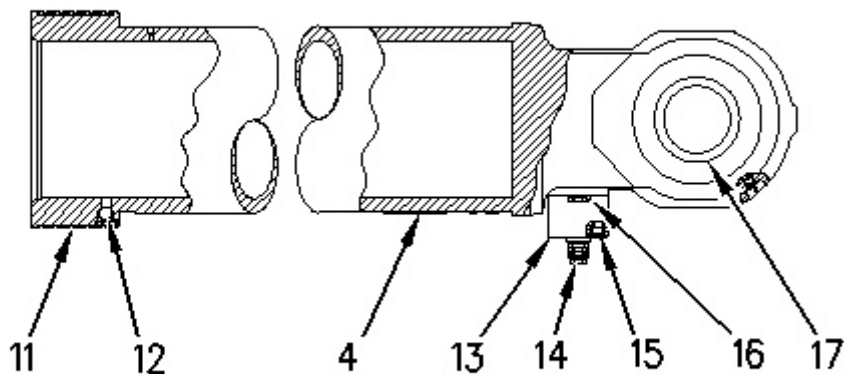


Illustration 2

g00702957

4. Use Tooling (A) (not shown) in order to install one of the lockrings (not shown) that holds spherical bearing (17) in position in rod assembly (4).

5. Lower the temperature of spherical bearing (17). Position spherical bearing (17) into rod assembly (4) until the spherical bearing is seated against the lockring.
6. Use Tool (A) (not shown) in order to install the remaining lockring (not shown) that holds spherical bearing (17) in position.
7. Install O-ring seal (16) and plug (14) on the manifold (not shown). Position the manifold and cover (13) on rod assembly (4). Install bolts (15) that hold the manifold and cover (13) in position.
8. Install ball (12) and wear ring (11) on rod assembly (4).

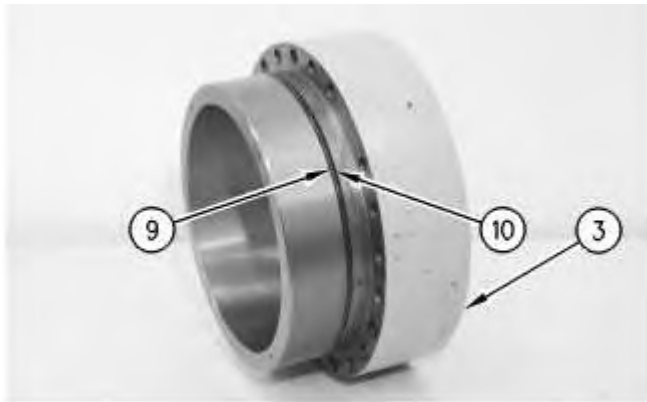


Illustration 3

g00649316

9. Install O-ring seal (9) and backup ring (10) in head (3).

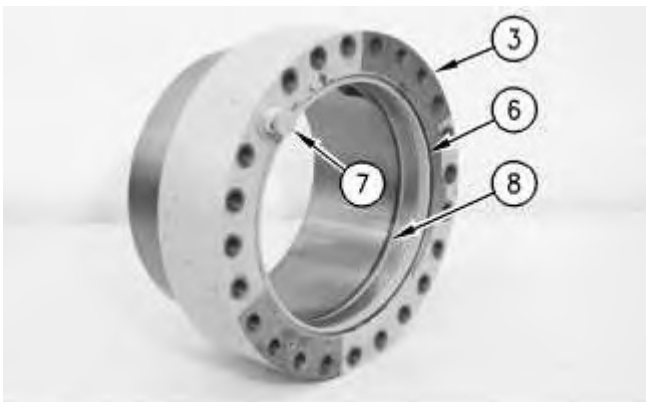


Illustration 4

g00649315

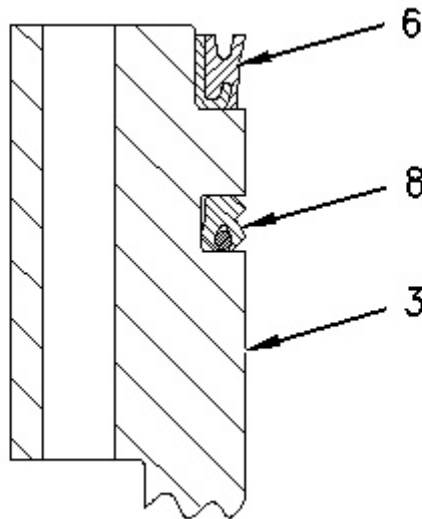


Illustration 5

g00703498

10. Install relief valve (7) and the washer in head (3). tighten relief valve (7) to a torque of $50 \pm 10 \text{ N}\cdot\text{m}$ ($37 \pm 7 \text{ lb ft}$).
11. Install U-cup seal (8) in head (3). Install lip seal (6).

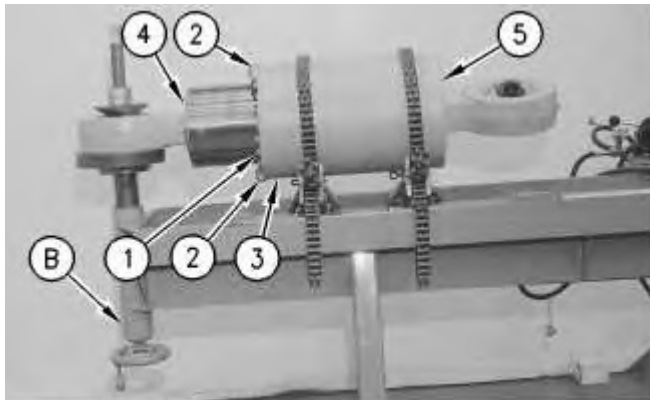


Illustration 6

g00649335

12. Position cylinder assembly (5), head (3), and rod assembly (4) on Tooling (B), as shown. The weight of cylinder assembly (5) is 145 kg (320 lb). The weight of head (3) is approximately 27 kg (60 lb). The weight of rod assembly (4) is approximately 98 kg (216 lb).
13. Position head (3) on cylinder assembly (5). Install the O-ring seal (not shown) on each cover (2). Position both covers on head (3). Install bolts (1) that hold head (3) in position on cylinder assembly (5).
14. Install rod assembly (4) through head (3) and into cylinder assembly (5). Remove the rear suspension cylinder from Tooling (C). The weight of the rear suspension cylinder is approximately 288 kg (636 lb).

Note: Make sure that the rear suspension cylinder is fully retracted before you remove the rear suspension cylinder from Tooling (B).

End By:

- a. Install the rear suspension cylinder. Refer to Disassembly and Assembly, "Rear Suspension (Cylinder) - Install".
-

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Rear Suspension (Cylinder) - Install

SMCS - 7213-012-RE

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	504-9826	Lift Gp (50/60 Hz) ⁽¹⁾	2
	OR		
	504-9827	Lift Gp (50/60 Hz) ⁽²⁾	2
B	160-2247	Abrasion Sleeve	2
C	8S-7640	Stand	1
	8S-7621	Tube	1
	8S-8048	Pliers	1
D	136-1452	Puller Stud	1
E	9U-5343	Puller Cylinder	1
	316-1494	Puller Cylinder	1
	350-7768	Pump	1
	7X-0851	Nut	2
	6V-8237	Washer	2
	1M-6756	Sleeve	1
	1U-6217	Adapter	1

	FT-2802	Puller Plate	1
F	4C-5593	Anti-Seize Compound	1

⁽¹⁾ High-Voltage (380-500V)

⁽²⁾ Low-Voltage (180-300V)

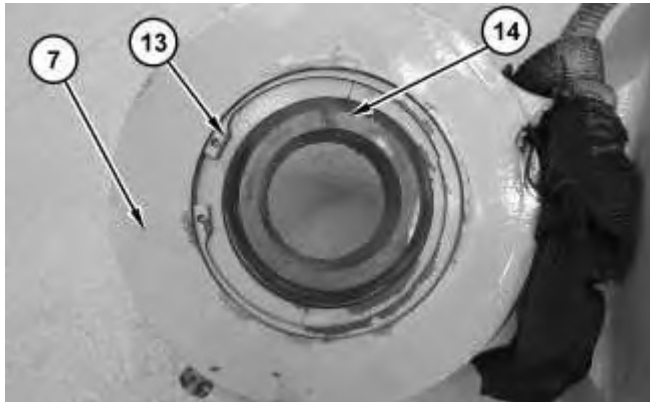


Illustration 1

g01322434

1. Use Tooling (D) to install retaining ring (13).
2. Use Tooling (E) to install bearing (14). Press bearing (14) until bearing (14) is seated against retaining ring (13).
3. Use Tooling (D) to install retaining ring (13) on the other side of bearing (14).
4. Repeat Steps 1 through Step 3 for the opposite end.

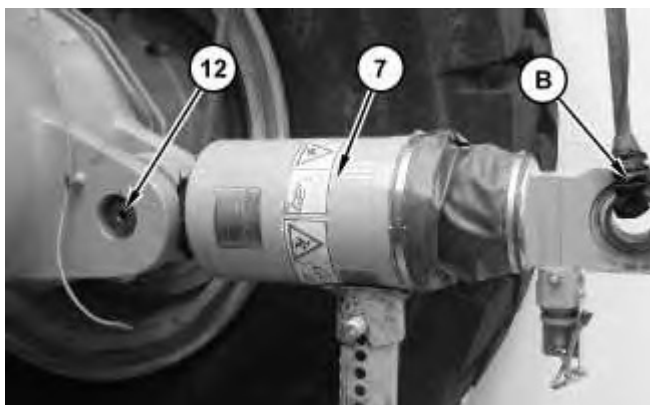


Illustration 2

g01322433

5. Attach Tooling (B) and a suitable lifting device onto suspension cylinder (7). The weight of suspension cylinder (7) is approximately 295 kg (650 lb).
6. Install suspension cylinder (7).
7. Apply Tooling (F) onto pin (12). Install pin (12).



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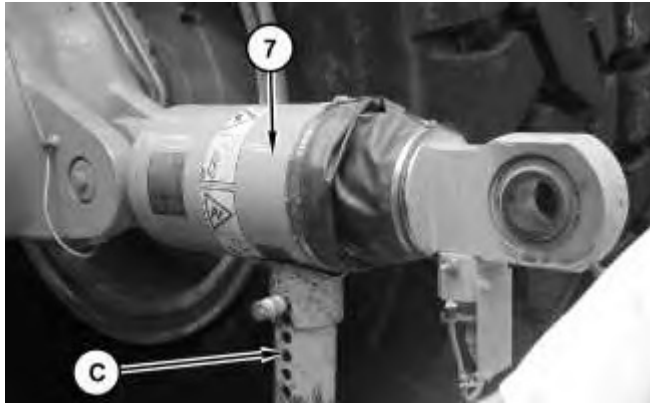


Illustration 3

g01322430

8. Position suspension cylinder (7) onto Tooling (C).

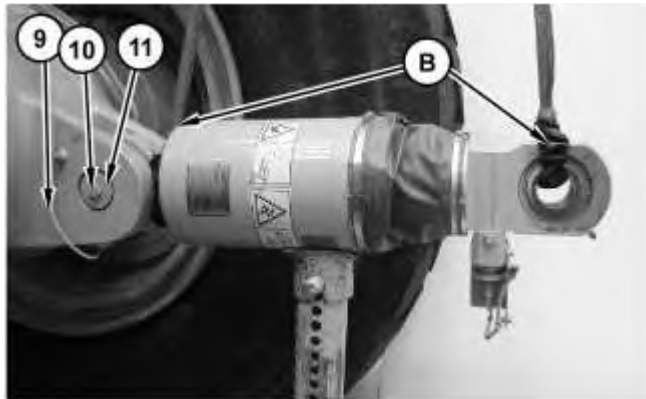


Illustration 4

g01322432

9. Install washers (11). Install bolt (10). Connect grease hose assembly (9).

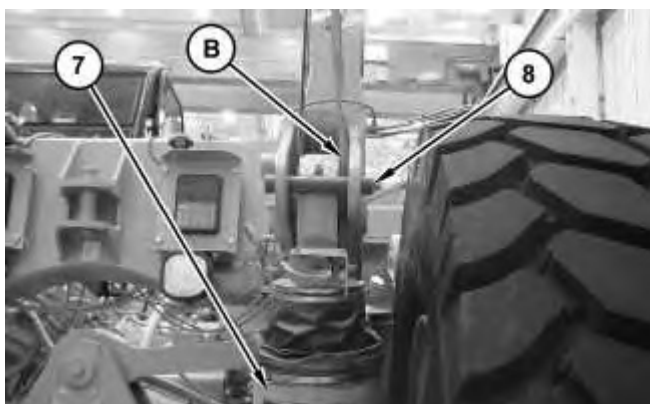


Illustration 5

g01322429

10. Attach Tooling (B) and a suitable lifting device onto suspension cylinder (7).
11. Position suspension cylinder (7). Install body retaining pin (8). Position suspension cylinder (7) against body retaining pin.

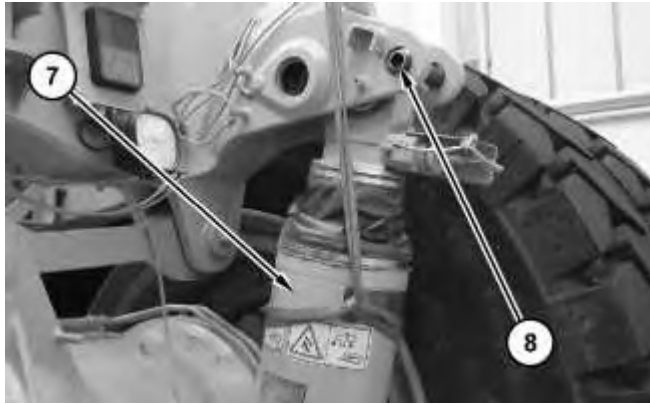


Illustration 6

g01322672

12. Attach a suitable lifting device onto suspension cylinder (7). Remove body pin (8).

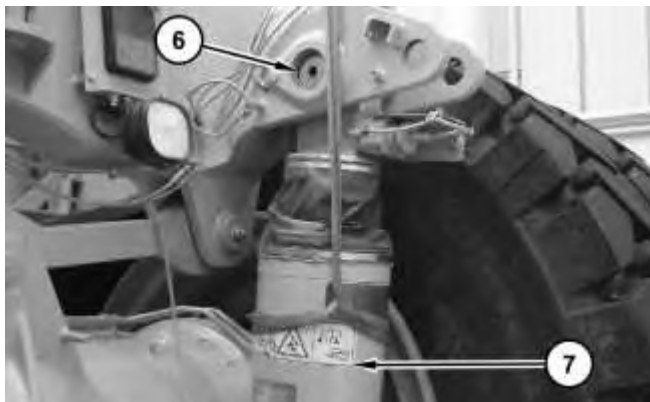


Illustration 7

g01322381

13. Position suspension cylinder (7). Apply Tooling (F) onto pin (6). Install pin (6).

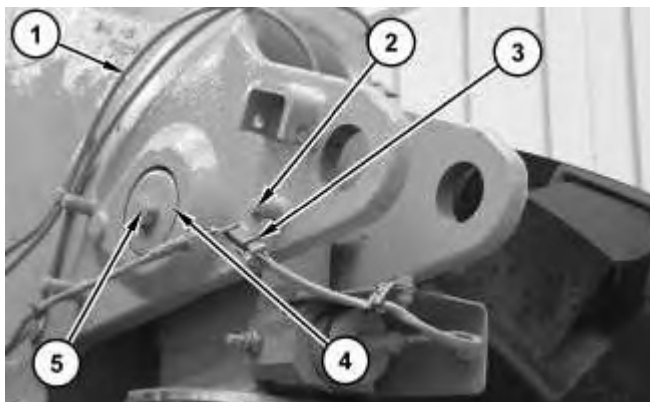


Illustration 8

g01322377

14. Install washers (4). Install bolt (5).
15. Connect grease hose assembly (1). Install bolt (2). Connect harness assembly (3).

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