



Service Repair Manual

Model

322C and 322C L 322CL EXCAVATOR

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Product: EXCAVATOR

Model: 322C EXCAVATOR BLP

Configuration: 322C & 322C L Excavators BLP00001-UP (MACHINE) POWERED BY 3126 Engine

Disassembly and Assembly 322C Excavator Machine Systems

Media Number -REN3843-07

Publication Date -01/02/2017

Date Updated -20/02/2017

i01974060

Control Valve (Auxiliary) - Disassemble - F2 Auxiliary Control Valve

SMCS - 5051-015-AX

Disassembly Procedure

Start By:

- a. Remove the F2 auxiliary control valve. Refer to Disassembly and Assembly, "Control Valve (Auxiliary) - Remove" for the machine that is being serviced.

NOTICE

Keep all parts clean from contaminants.

Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.

To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.

Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.

Note: Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will prevent contamination from entering the internal mechanism.

Solenoid Valve and Housing

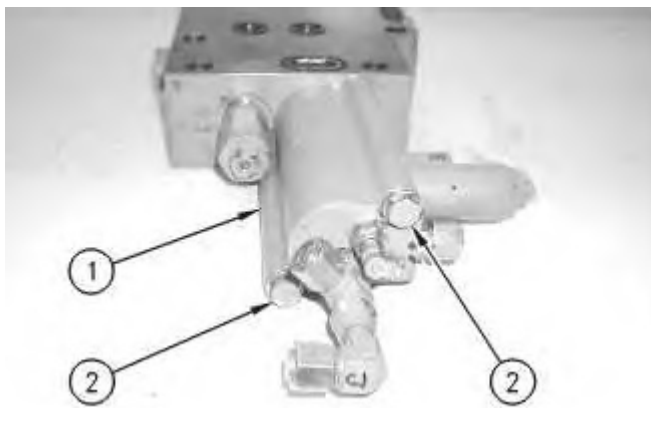


Illustration 1

g00713277

1. Remove two bolts (2). Remove valve (1).



Illustration 2

g00713314

2. Remove the O-ring seal (3) from the valve housing.

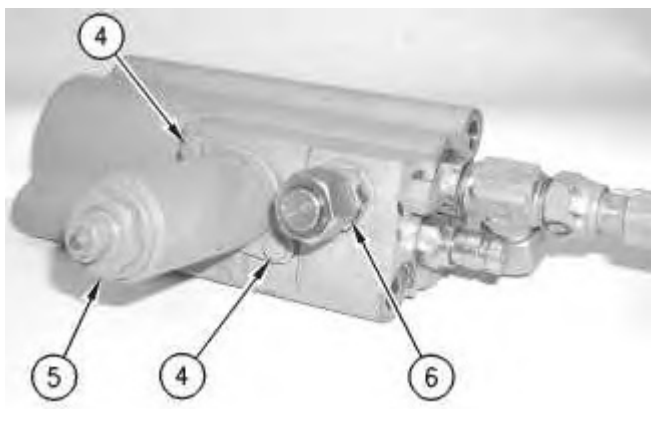


Illustration 3

g00713315

3. Remove two bolts (4). Remove solenoid valve (5) from the housing. Remove fitting (6).

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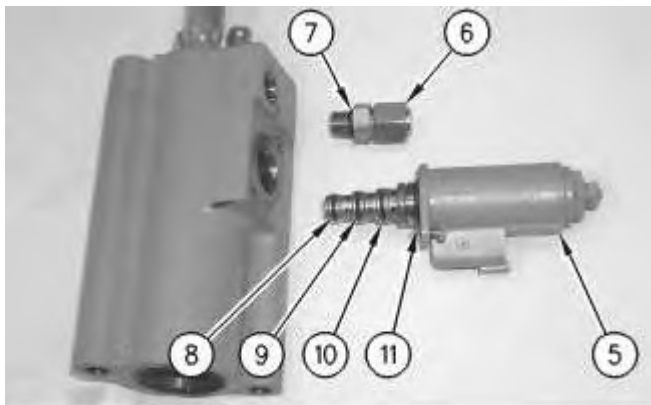


Illustration 4

g00713316

4. Remove O-ring seal (7) from fitting (6). Remove O-ring seal (8), (9), (10), and (11) from solenoid valve (5).

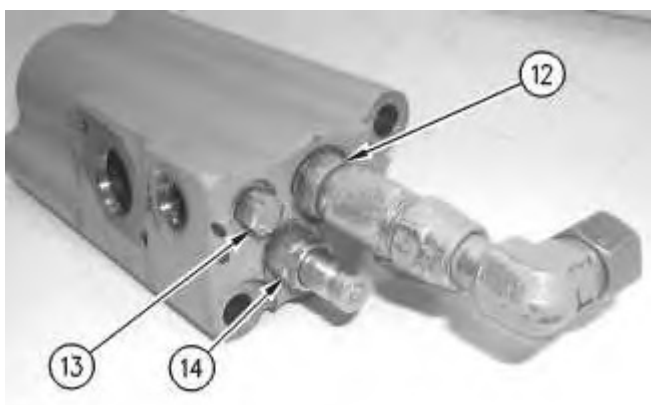


Illustration 5

g00713317

5. Remove fitting (12), plug (13), and fitting (14).

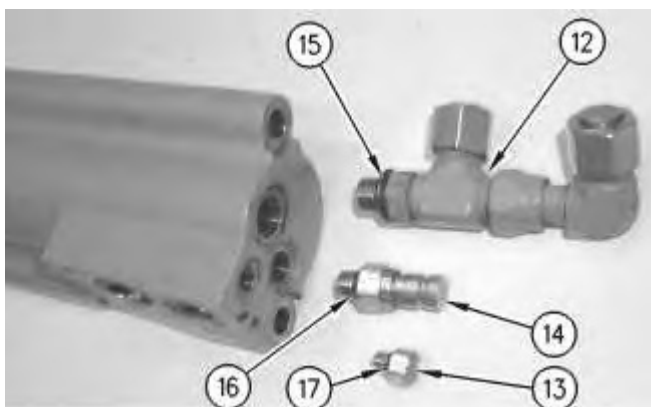


Illustration 6

g00713318

6. Remove O-ring seal (15) from fitting (12). Remove O-ring seal (16) from fitting (14). Remove O-ring seal (17) from plug (13).
-

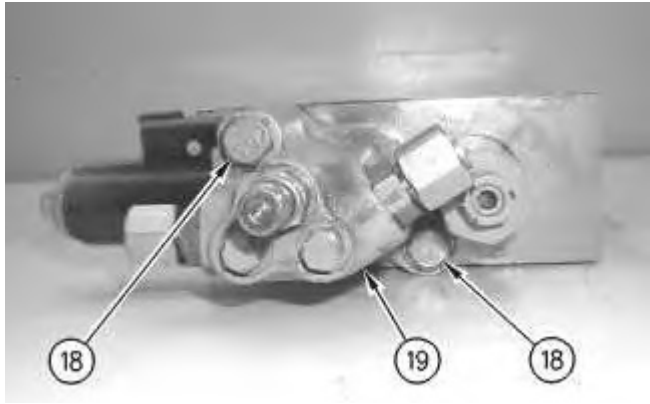


Illustration 7

g00713319

7. Remove two bolts (18). Remove valve (19).



Illustration 8

g00713320

8. Remove O-ring seal (20) from the valve housing.

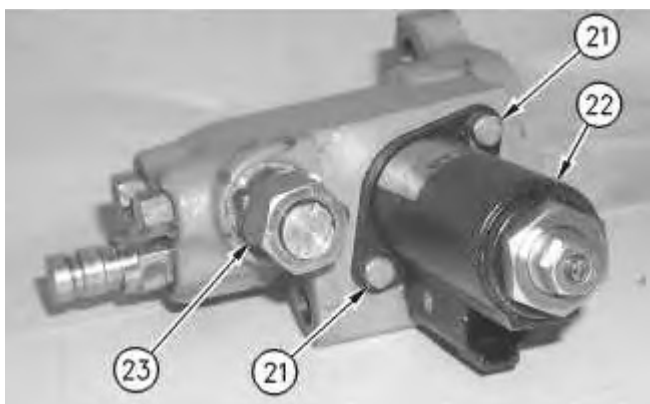


Illustration 9

g00713321

9. Remove two bolts (21). Remove solenoid valve (22) from the housing. Remove fitting (23).

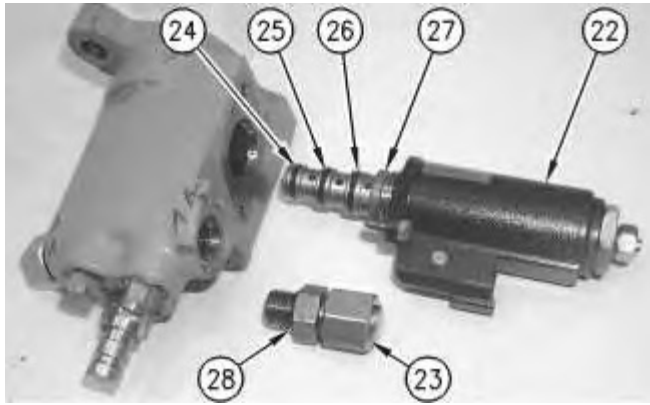


Illustration 10

g00713322

10. Remove O-ring seal (24), (25), (26), and (27) from solenoid valve (22). Remove O-ring seal (28) from fitting (23).

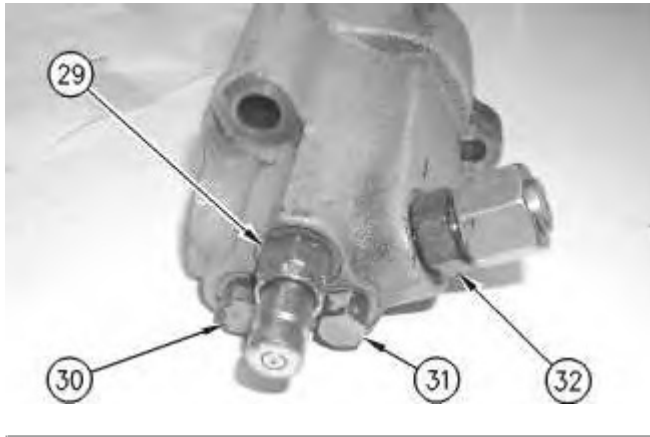


Illustration 11

g00713323

11. Remove fittings (29) and (32). Remove plugs (30) and (31).

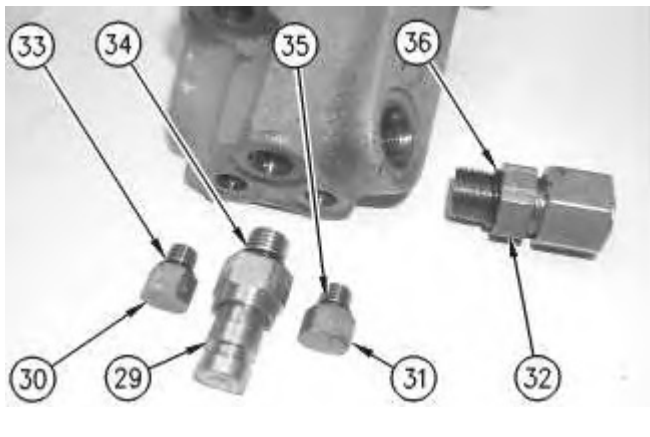


Illustration 12

g00713324

12. Remove O-ring seal (33) from plug (30). Remove O-ring seal (34) from fitting (29). Remove O-ring seal (35) from plug (31). Remove O-ring seal (36) from fitting (32).

Spool, Load Hold Check Valve, and Line Relief Valves

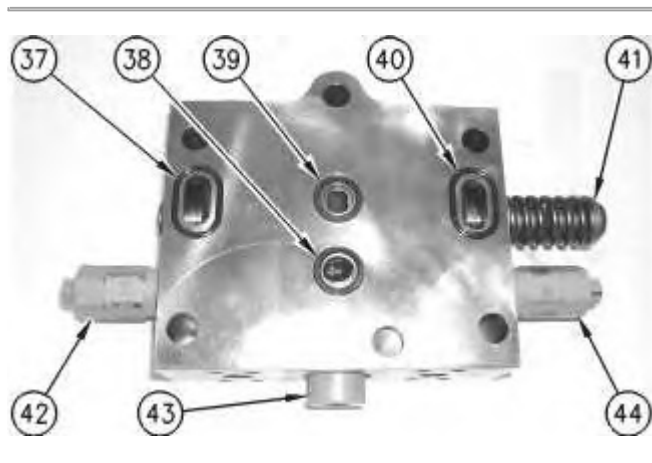


Illustration 13

g00713411

1. Remove O-ring seals (37), (38), (39), and (40) from the valve housing. Remove spool (41). Remove line relief valves (42) and (44). Remove load hold check valve (43).

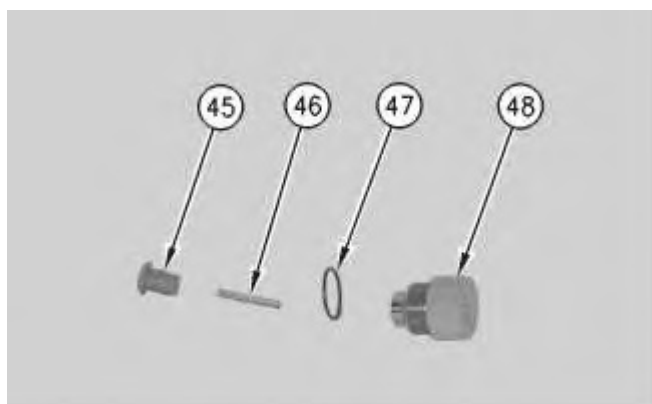


Illustration 14

g00713419



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.

2. Disassemble the load hold check valve. Remove check valve (45), spring (46), and O-ring seal (47) from plug (48).

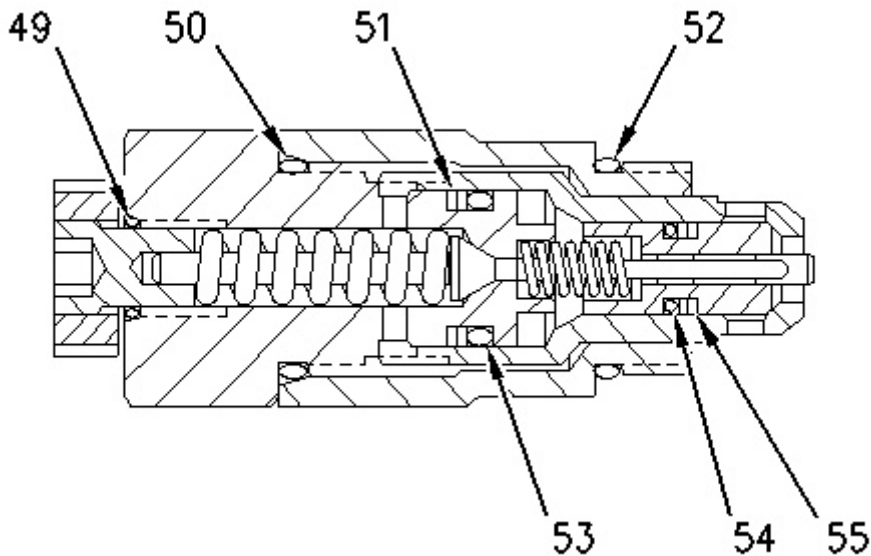


Illustration 15

g00713427

3. Remove the O-ring seals and backup rings from line relief valves (42) and (44). Remove O-ring seals (49), (50), (52), (53), and (54). Remove backup rings (51) and (55).

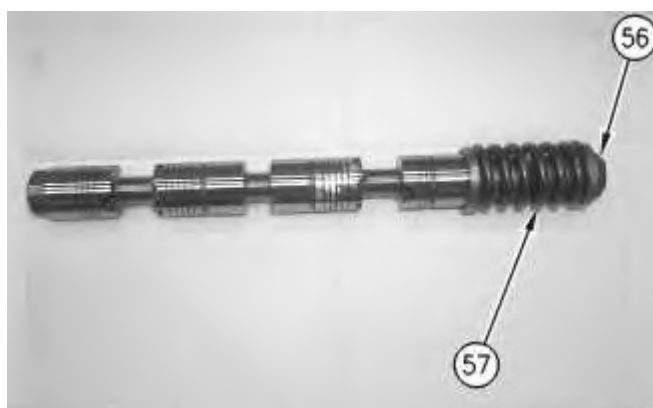


Illustration 16

g00713437

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.

4. Remove bolt (56) and spring (57) from the spool.

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Configuration: 322C & 322C L Excavators BLP00001-UP (MACHINE) POWERED BY 3126 Engine

Disassembly and Assembly 322C Excavator Machine Systems

Media Number -REN3843-07

Publication Date -01/02/2017

Date Updated -20/02/2017

i01974067

Control Valve (Auxiliary) - Disassemble - F1 and F3 Auxiliary Control Valve

SMCS - 5051-015-AX

Disassembly Procedure

Start By:

- a. Remove the auxiliary control valve. Refer to Disassembly and Assembly, "Control Valve (Auxiliary) - Remove" for the machine that is being serviced.

NOTICE

Keep all parts clean from contaminants.

Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.

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Line Relief Valve and Load Hold Check Valve

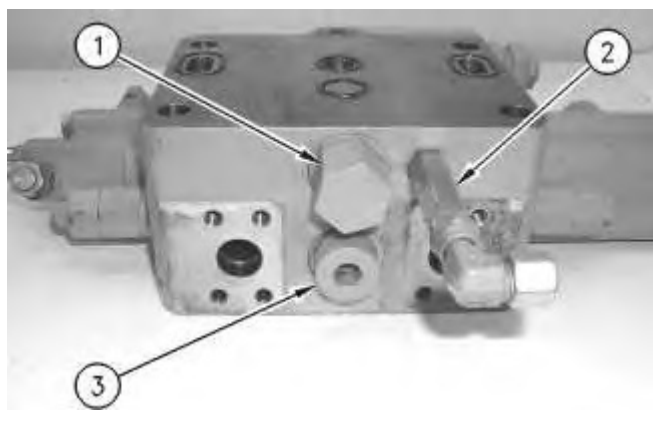


Illustration 1

g00708853

1. Remove line relief valve (1), fitting (2), and load hold check valve (3).

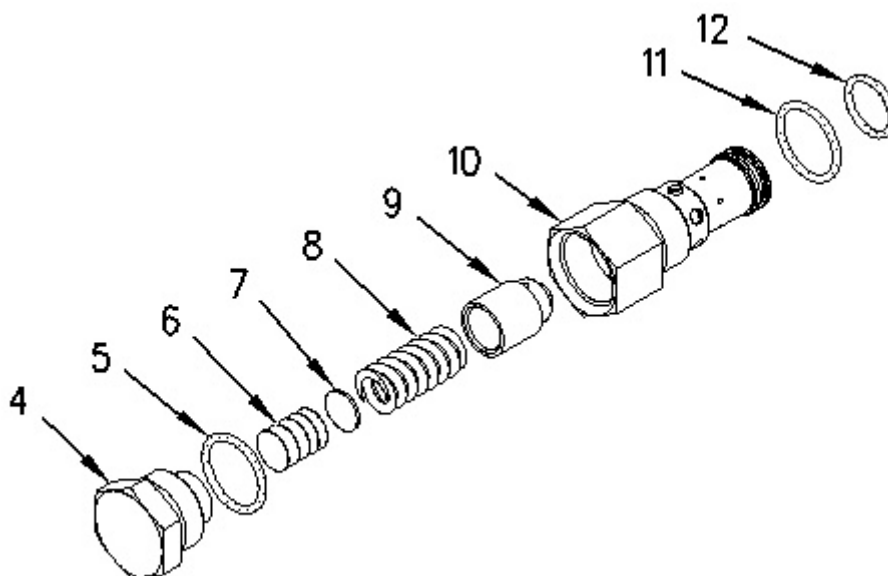


Illustration 2

g00708935



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.

2. Disassemble the line relief valve.

- a. Remove plug (4).
- b. Remove O-ring seal (5), shims (6), and shim (7) from plug (4).
- c. Remove spring (8) and valve (9) from valve body (10).
- d. Remove O-ring seals (11) and (12) from valve body (10).



Illustration 3

g00708878

3. Remove O-ring seal (13) from fitting (2).

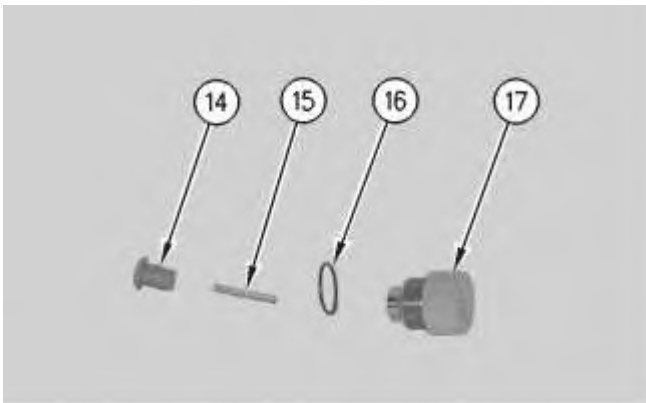


Illustration 4

g00708882



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.

-
4. Disassemble the load hold check valve. Remove check valve (14), spring (5), and O-ring seal (16) from plug (17).



Illustration 5

g00708948

5. Remove line relief valve (18).

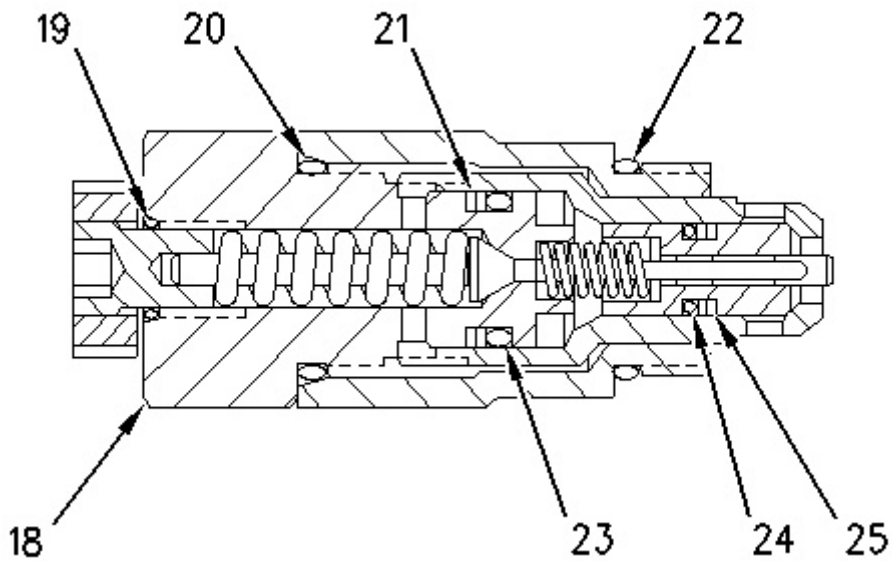


Illustration 6

g00708875

6. Remove O-ring seals (19), (20), (22), (23), and (24) from line relief valve (18). Remove backup rings (21) and (25) from line relief valve (18).
-

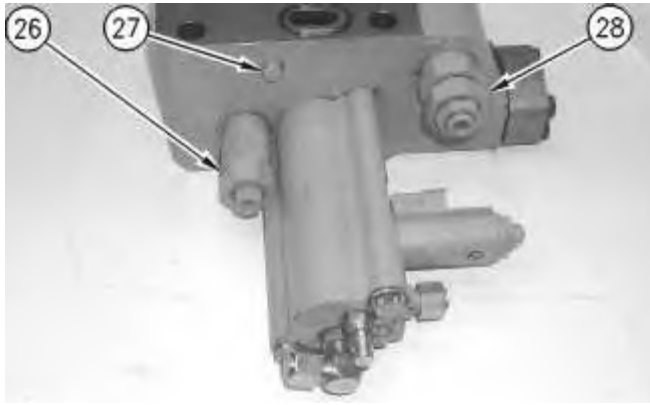


Illustration 7

g00708954

7. Remove line relief valve (26), plug (27), and relief valve (28).

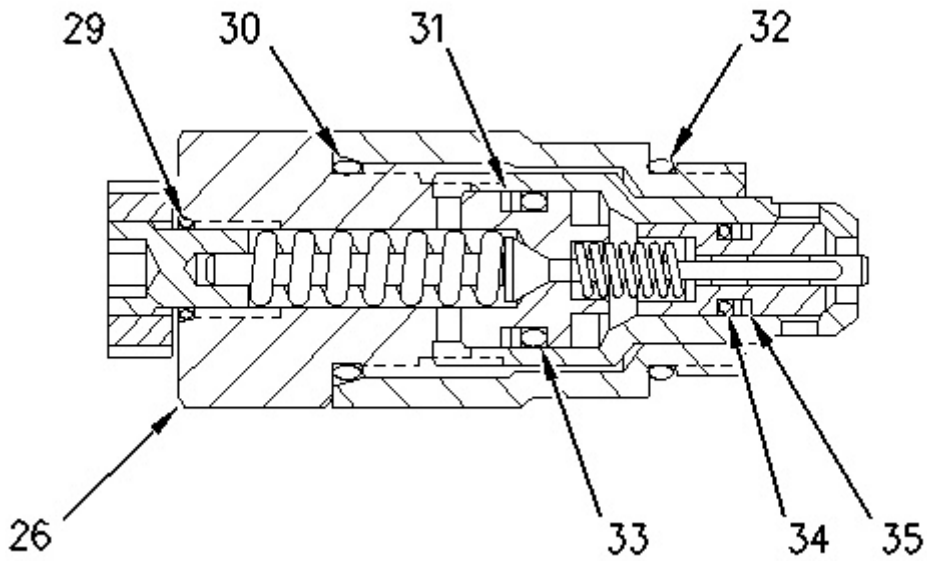
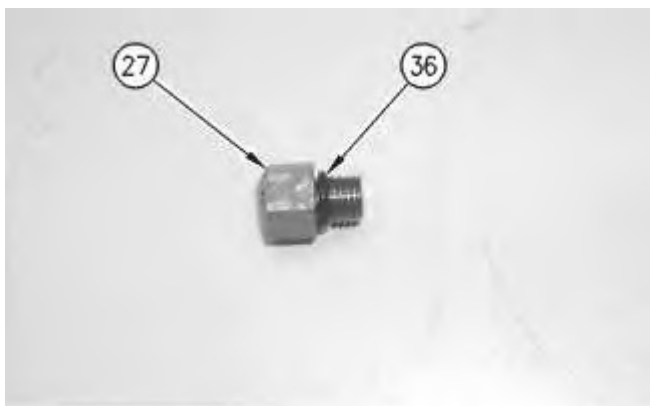


Illustration 8

g00708962

8. Remove O-ring seals (29), (30), (32), (33), and (34) from line relief valve (26). Remove backup rings (31) and (35) from line relief valve (26).



9. Remove O-ring seal (36) from plug (27).

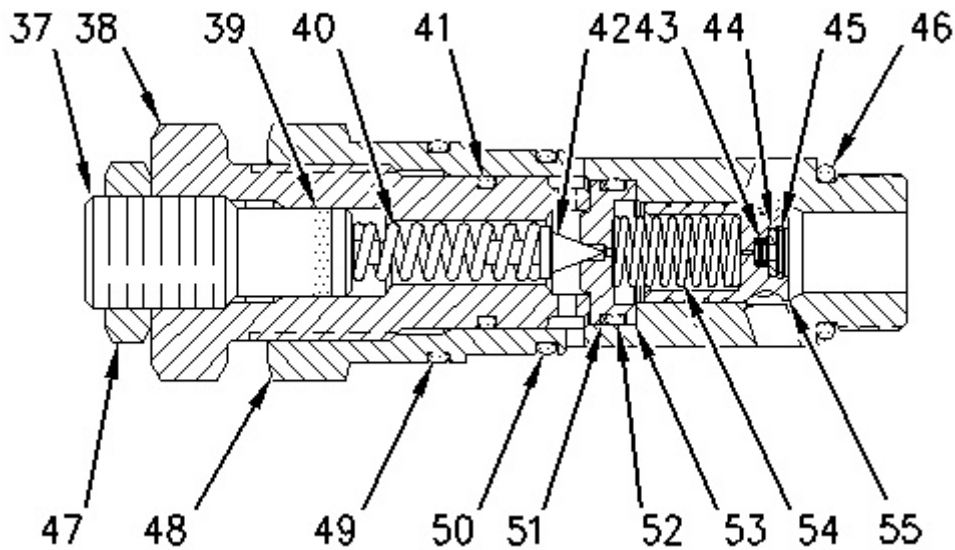


Illustration 10

g00708972



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.

10. Disassemble the relief valve.
- a. Remove nut (47). Remove adjuster (37).
 - b. Remove O-ring seal (39) from the adjuster (37).
 - c. Remove spring (40) and valve (42) from holder (38). Remove holder (38).
 - d. Remove O-ring seal (41) from holder (38).
 - e. Remove valve seat (53).
 - f. Remove O-ring seal (52) and backup ring (51) from the valve seat (53).
 - g. Remove spring (54).

- h. Remove valve (55) from valve body (48). Remove ring (45), collar (44), and filter (43) from valve (55).
- i. Remove O-ring seals (46), (50), and (49) from valve body (48).

Solenoid Valve and Housing

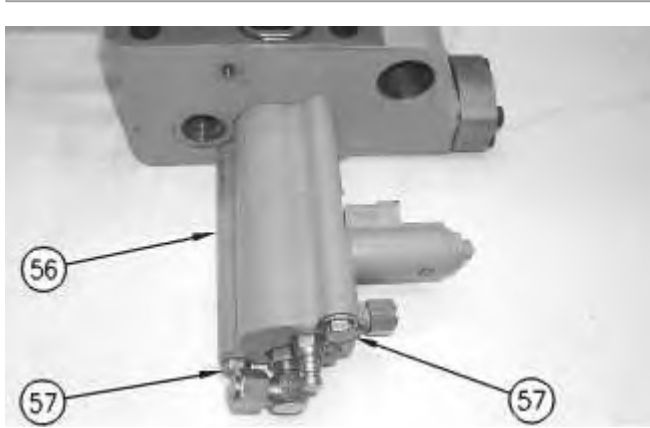


Illustration 11

g00709076

1. Remove two bolts (57). Remove valve (56).



Illustration 12

g00709077

2. Remove the O-ring seal (58) from the valve housing.
-

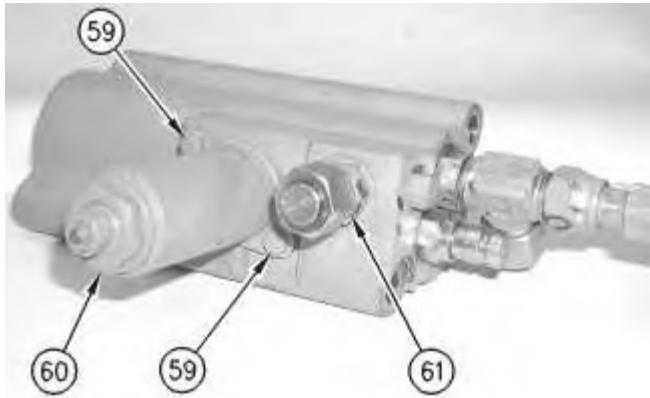


Illustration 13

g00709080

3. Remove two bolts (59). Remove solenoid valve (60) from the housing. Remove fitting (61).

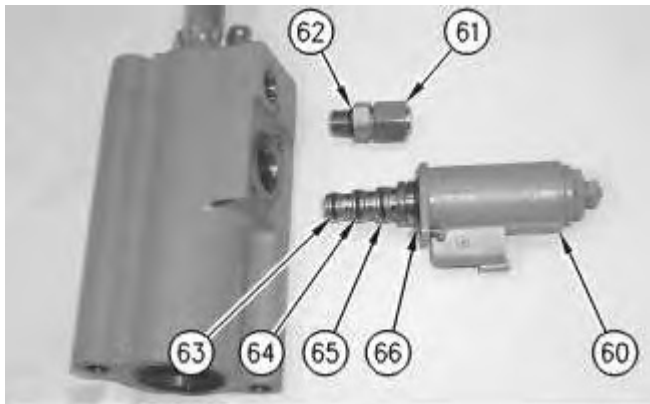


Illustration 14

g00709082

4. Remove O-ring seal (62) from fitting (61). Remove O-ring seal (63), (64), (65), and (66) from solenoid valve (60).

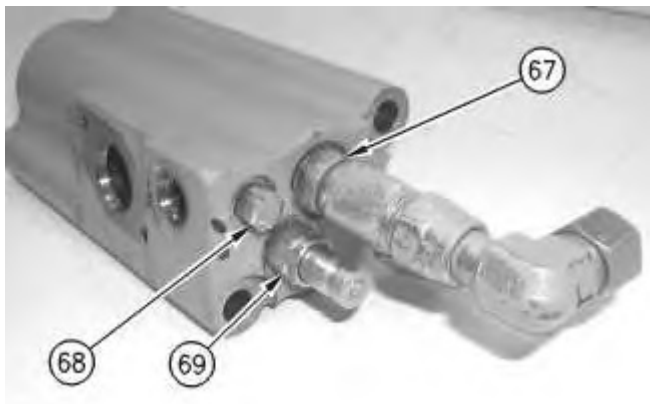


Illustration 15

g00709083

5. Remove fitting (67), plug (68), and fitting (69).

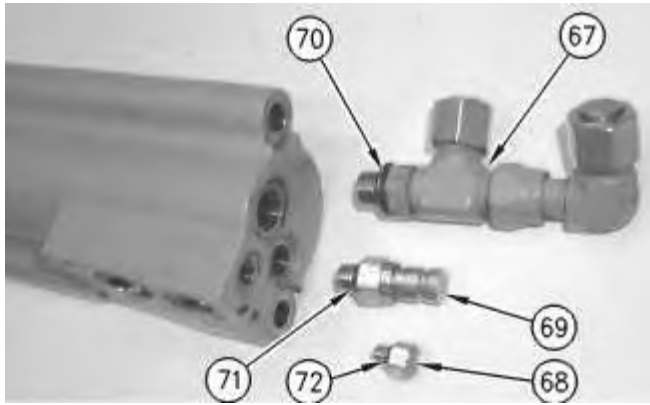


Illustration 16

g00709086

6. Remove O-ring seal (70) from fitting (67). Remove O-ring seal (71) from fitting (69). Remove O-ring seal (72) from plug (68).

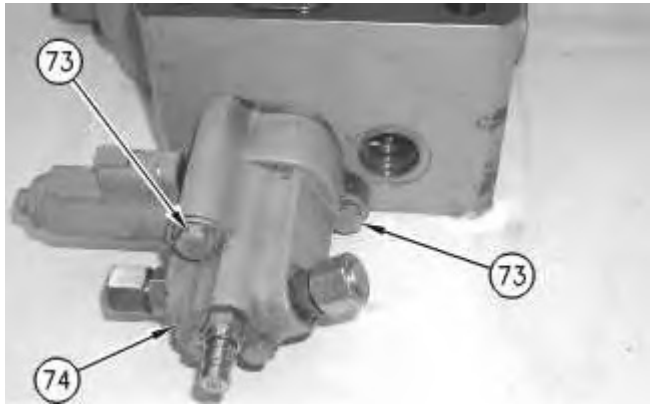


Illustration 17

g00709089

7. Remove two bolts (73). Remove valve (74).



Illustration 18

g00709090

8. Remove O-ring seal (75) from the valve housing.

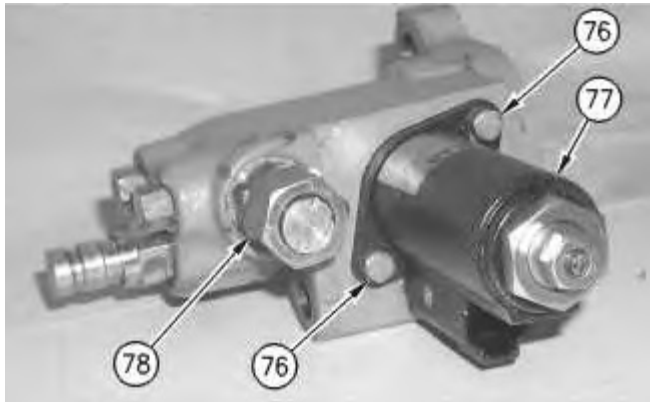


Illustration 19

g00709091

9. Remove two bolts (76). Remove solenoid valve (77) from the housing. Remove fitting (78).

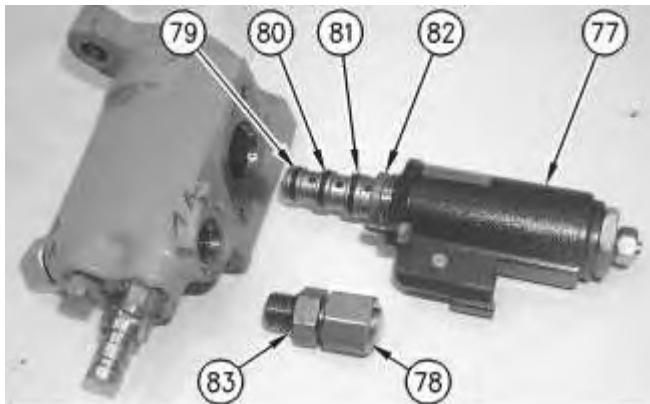


Illustration 20

g00709092

10. Remove O-ring seal (79), (80), (81), and (82) from solenoid valve (77). Remove O-ring seal (83) from fitting (78).

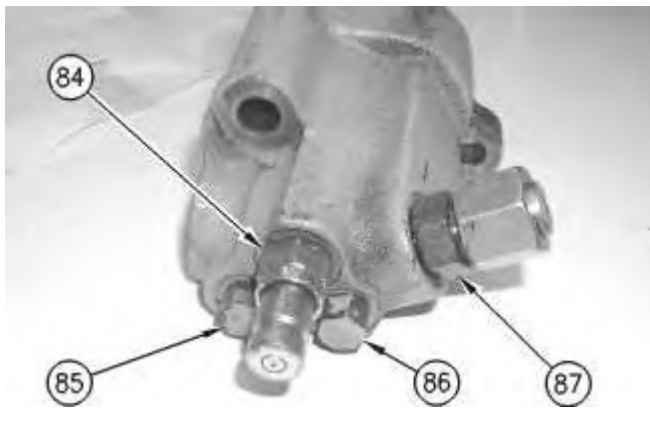


Illustration 21

g00709093

11. Remove fittings (84) and (87). Remove plugs (85) and (86).

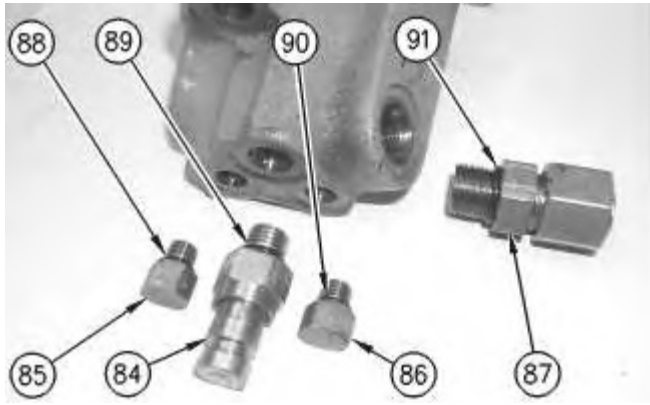


Illustration 22

g00709094

12. Remove O-ring seal (88) from plug (85). Remove O-ring seal (89) from fitting (84). Remove O-ring seal (90) from plug (86). Remove O-ring seal (91) from fitting (87).

Spool and Plug

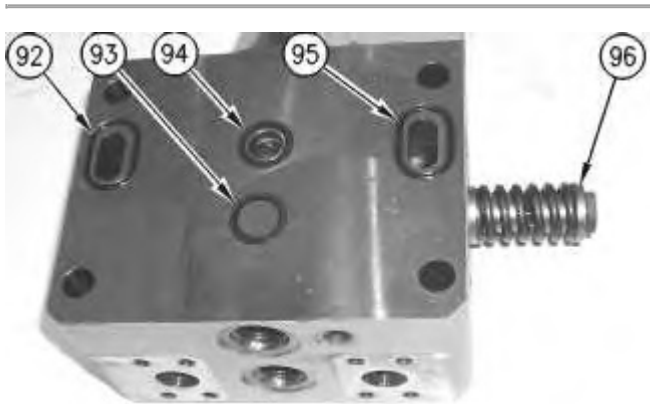


Illustration 23

g00709161

1. Remove O-ring seals (92), (93), (94), and (95) from the valve housing. Remove spool (96).

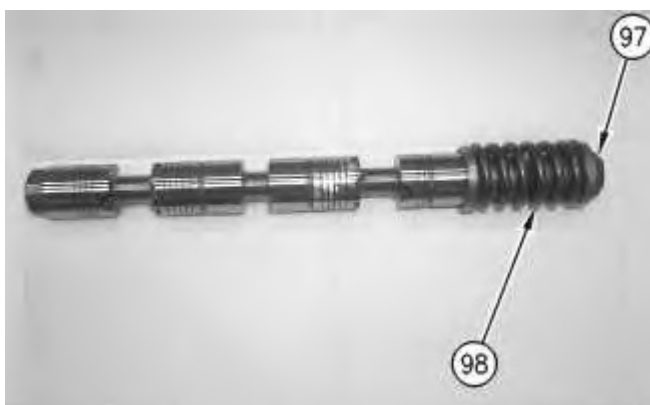


Illustration 24

g00709162

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.

2. Remove bolt (97) and spring (98) from the spool.

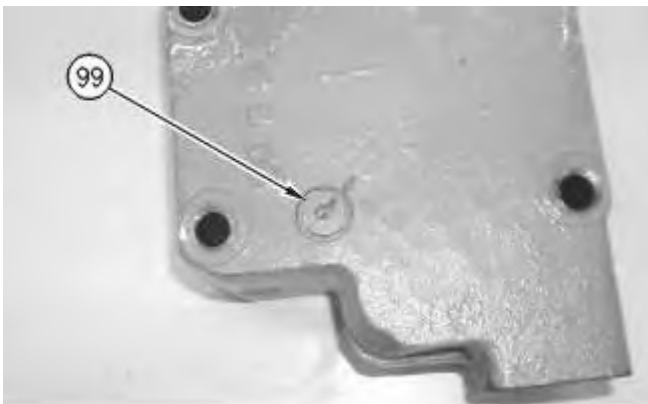


Illustration 25

g00709163

3. Remove plug (99) from the valve housing.

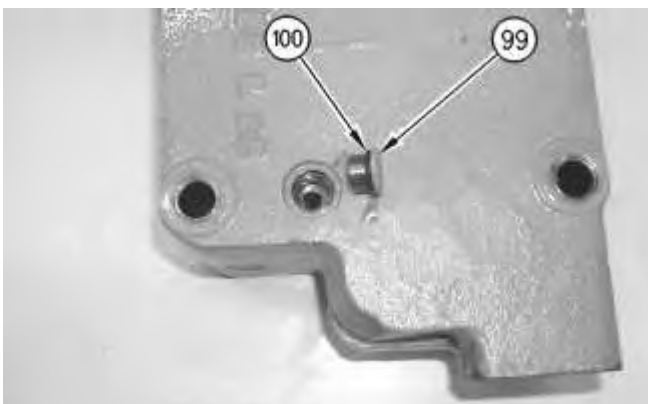


Illustration 26

g00709164

4. Remove O-ring seal (100) from plug (99).
-

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Configuration: 322C & 322C L Excavators BLP00001-UP (MACHINE) POWERED BY 3126 Engine

Disassembly and Assembly 322C Excavator Machine Systems

Media Number -REN3843-07

Publication Date -01/02/2017

Date Updated -20/02/2017

i01973997

Control Valve (Auxiliary) - Assemble - F1 and F3 Auxiliary Control Valve

SMCS - 5051-016-AX

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-6396	O-Ring Assembly Compound	
B	155-0695	Thread Lock Compound	

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement. All disassembly and all assembly procedures must be performed on a clean work surface and in a clean hydraulic area. Keep cleaned parts covered and protected at all times.

Note: O-ring seals, gaskets, and seals should always be replaced. A used O-ring seal may not have the same sealing properties as a new O-ring. Use Tooling (A) during the assembly procedure.

Note: Apply a light film of hydraulic oil to all components before assembly.

Spool and Plug

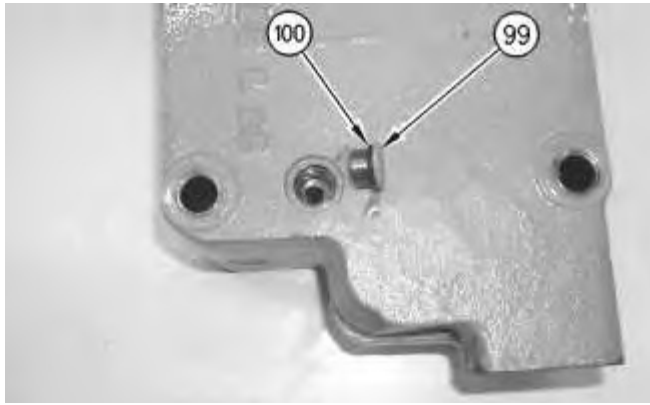


Illustration 1

g00709164

1. Install O-ring seal (100) on plug (99).

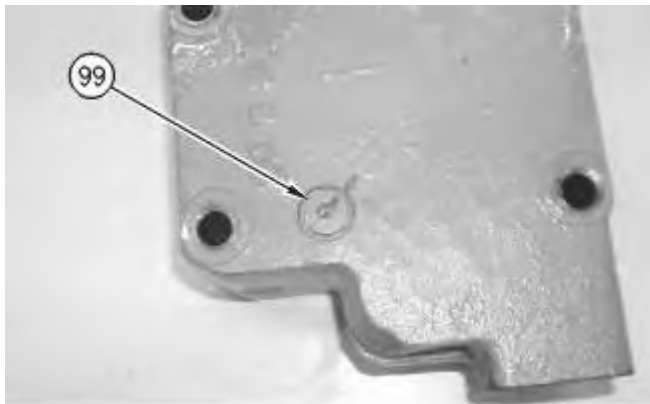


Illustration 2

g00709163

2. Install plug (99) in the valve housing. Tighten plug (99) to 75 ± 7 N·m (55 ± 5 lb ft).

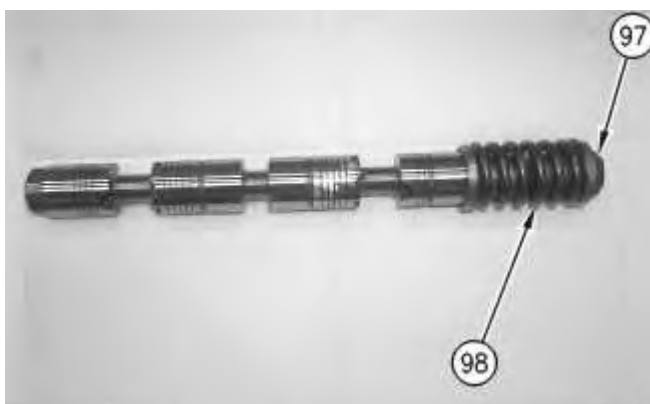


Illustration 3

g00709162

3. Install spring (98). Apply Tooling (B) to bolt (97). Install bolt (97). Tighten bolt (97) to $50 + 10 - 0$ N·m ($37 + 7 - 0$ lb ft).

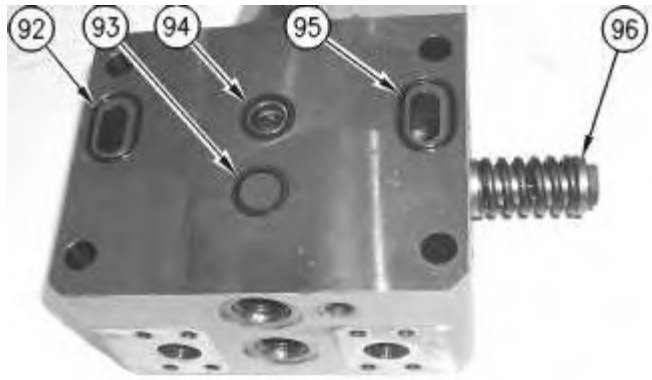


Illustration 4

g00709161

4. Install spool (96). Install O-ring seals (92), (93), (94), and (95) in the valve housing.

Solenoid Valve and Housing

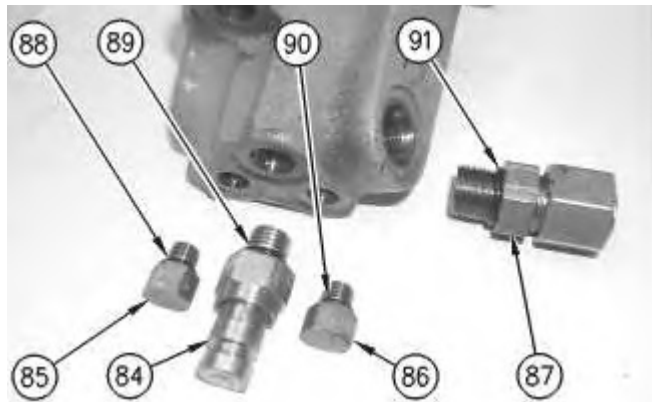


Illustration 5

g00709094

1. Install O-ring seal (88) on plug (85). Install O-ring seal (89) on fitting (84). Install O-ring seal (90) on plug (86). Install O-ring seal (91) on fitting (87).

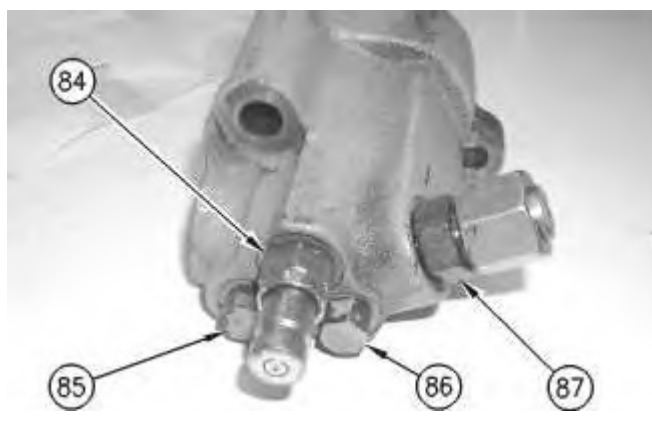


Illustration 6

g00709093



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2. Install fittings (84) and (87). Install plugs (85) and (86).

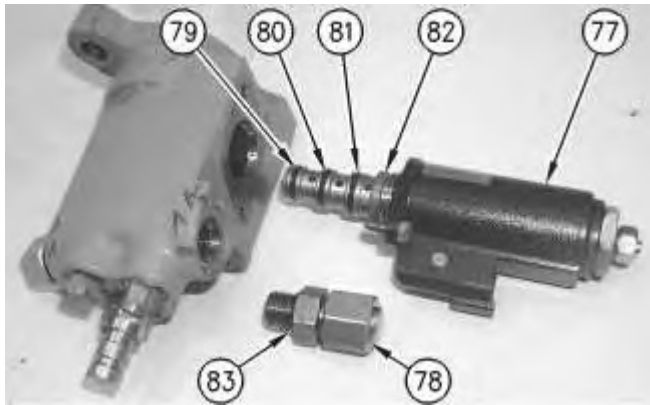


Illustration 7

g00709092

3. Install O-ring seal (79), (80), (81), and (82) on solenoid valve (77). Install O-ring seal (83) on fitting (78).

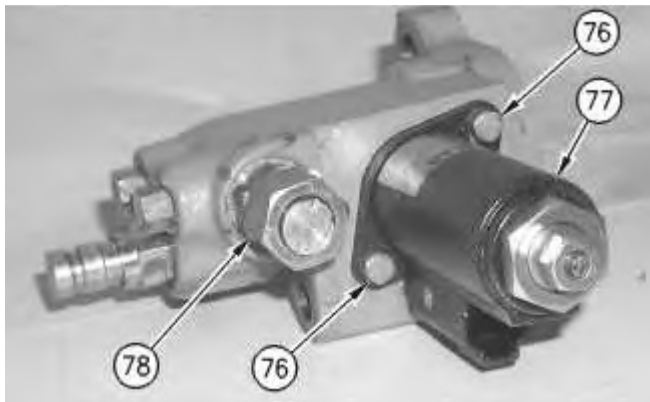


Illustration 8

g00709091

4. Install fitting (78). Install solenoid valve (77) in the housing. Install two bolts (76).



Illustration 9

g00709090

5. Install O-ring seal (75) in the valve housing.

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