

Product: WHEEL SCRAPER

Model: 637E WHEEL SCRAPER 1LB

Configuration: 637E Wheel Scraper 1LB00001-UP (MACHINE) POWERED BY 3306 Engine

## Disassembly and Assembly 631E & 637E TRACTOR POWER TRAIN

Media Number -SEN4143-01

Publication Date -01/10/2004

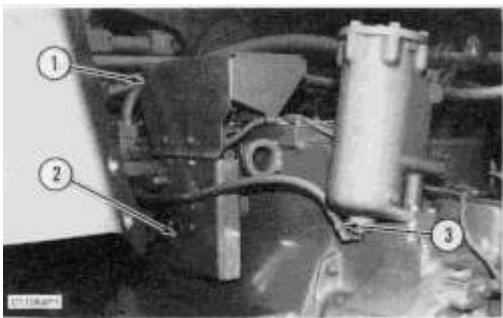
Date Updated -17/03/2010

SEN41430012

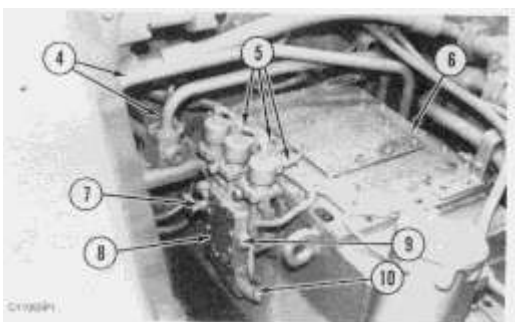
### Transmission Hydraulic Control Valves

SMCS - 3152-015; 3152-011; 3152-012; 3167-016

### Remove Transmission Hydraulic Control Valves

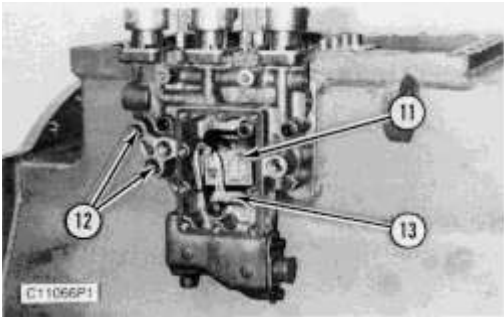


1. Disconnect hose assembly (3).
2. Remove guard assemblies (1) and (2) from the transmission.

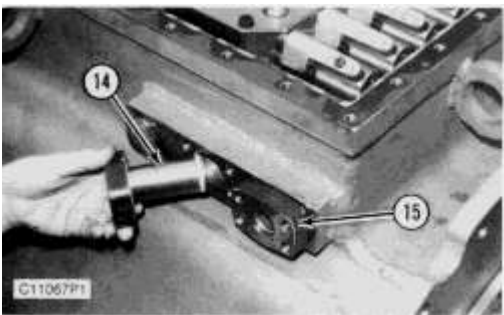


3. Put identification marks on wire harnesses (5). Disconnect wire harnesses (5) from the solenoid valves.
4. Disconnect wire harness (10). Remove the bolts that hold the clips and wire harnesses in position. Move the wire harnesses away from the transmission.
5. Remove cover (6) and the gasket from the top of the transmission.

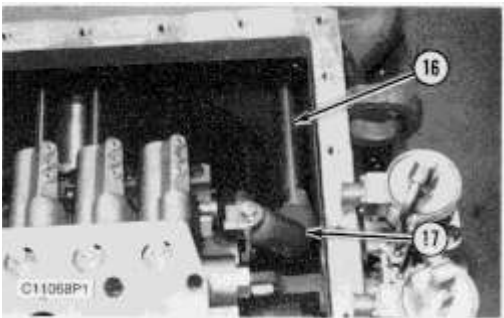
6. Remove cover (8) from the switch manifold.
7. Remove three plugs (9) and pressure tap (7) from the switch manifold.
8. Remove two tube assemblies (4) from the transmission.



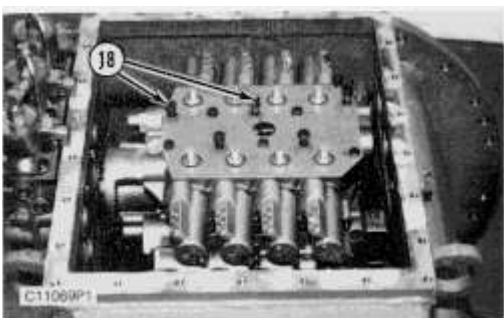
9. Remove four sleeves (12) from the switch manifold. Remove the O-ring seal from the sleeves.
10. Disconnect wire harness (13) from switch assembly (11).
11. Remove switch assembly (11) from the switch manifold.

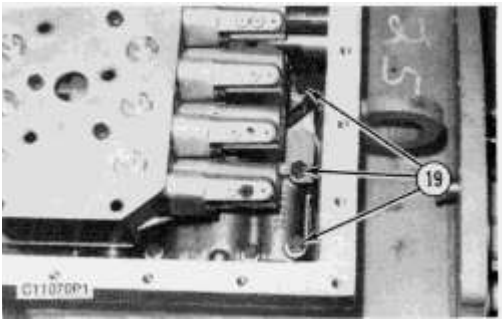


12. Remove adapters (15) and sleeves (14). Remove the O-ring seals from the sleeves.

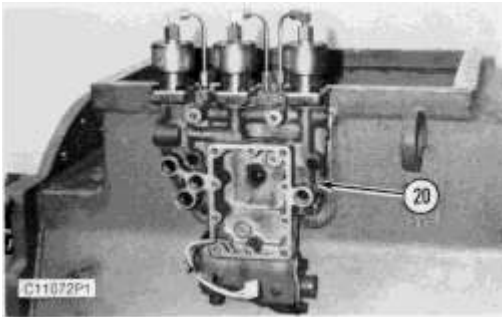


13. Remove elbow (17) and sleeve (16). Remove the O-ring seals from the sleeve.

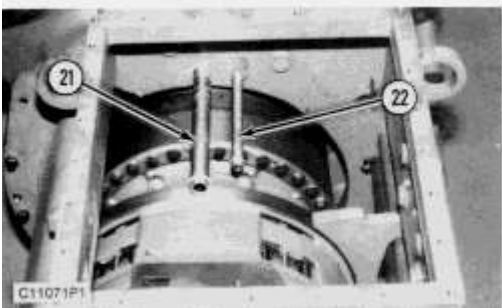




**14.** Remove five 3/8"-16 NC bolts (18) and three bolts (19). Fasten a hoist to the transmission control group. Move the transmission control group toward the front of the machine, and remove it from the transmission. The weight of the transmission control group is 69 kg (152 lb.).

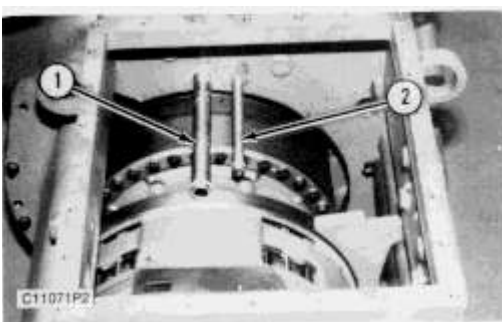


**15.** Remove switch manifold (20) from the side of the transmission. Remove the O-ring seals from the switch manifold.

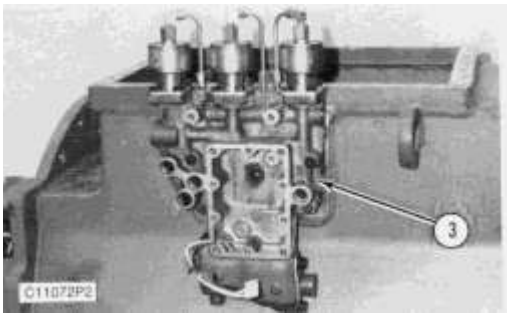


**16.** Remove sleeves (21) and (22). Remove the O-ring seals from the sleeves.

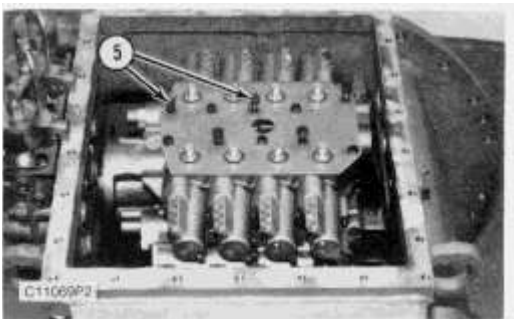
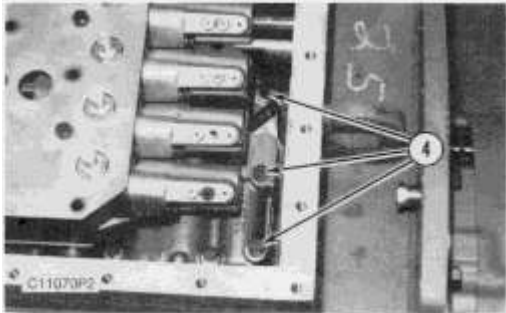
## Install Transmission Hydraulic Control Valves



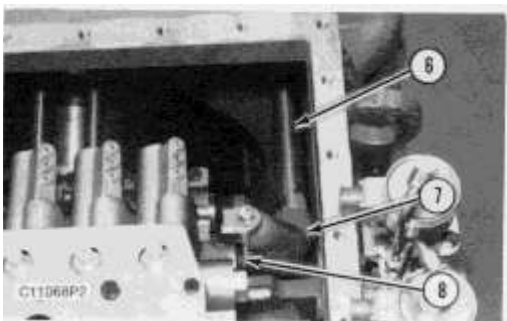
**1.** Install the O-ring seals on sleeves (1) and (2). Put clean oil on the O-ring seals. Install sleeves (1) and (2) in the transmission.



2. Install the six O-ring seals in switch manifold (3). Put clean oil on the O-ring seals.
3. Put switch manifold (3) in position, and install the four bolts that hold it in place. Tighten the bolts to a torque of  $48 \pm 4$  N·m ( $35 \pm 3$  lb.ft.).

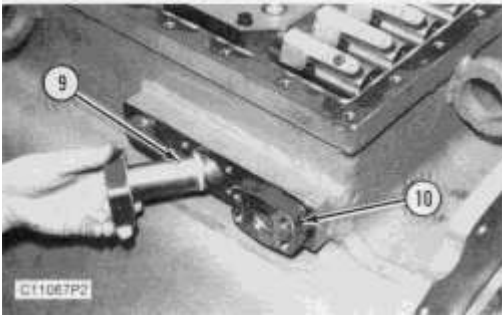


4. Fasten a hoist to the transmission control group. Put the transmission control group in position on the two sleeves, and lower it into place in the transmission.
5. Install three bolts (4) and five bolts (5). Tighten the bolts to a torque of  $48 \pm 4$  N·m ( $35 \pm 3$  lb.ft.).



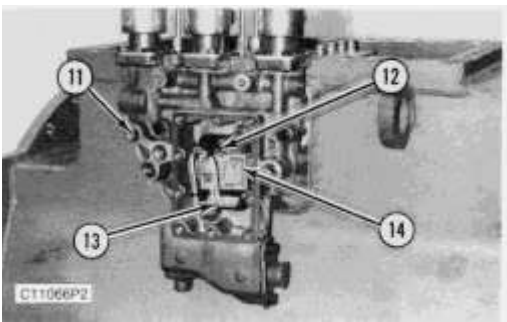
6. Install the O-ring seals on sleeve (6). Make sure the O-ring seal is in position on elbow (7). Put clean oil on the O-ring seals.

7. Put sleeve (6) and elbow (7) in position, and install two bolts (8). Tighten the bolts to a torque of  $30 \pm 4 \text{ N}\cdot\text{m}$  ( $22 \pm 3 \text{ lb}\cdot\text{ft.}$ ).



8. Install the O-ring seals on sleeves (9). Put clean oil on the O-ring seals.

9. Install sleeves (9) and adapters (10).

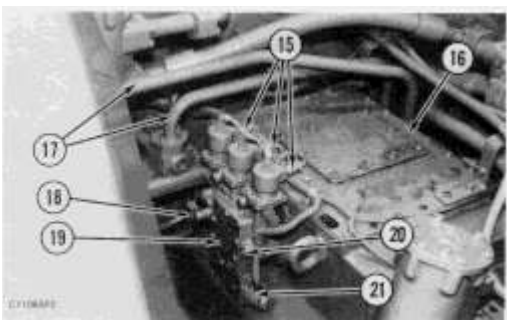


10. Align the groove in coupling (12) with the pin in the selector spool, and install coupling (12) and switch assembly (14).

11. Connect wire harness (13) to switch assembly (14).

12. Install the O-ring seals on sleeves (11). Put clean oil on the O-ring seals.

13. Install sleeves (11) in the switch manifold.



14. Install three plugs (20) and pressure tap (18).

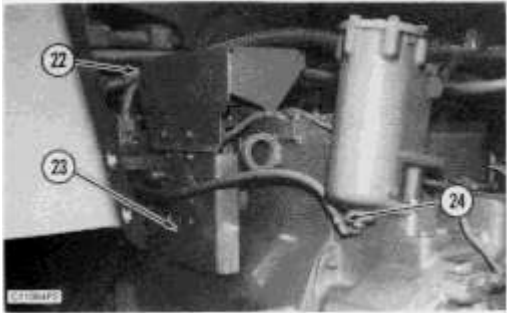
15. Install the gasket and cover (19) on the switch manifold.

16. Install the gasket and cover (16) on the top of the transmission.

17. Connect wire harnesses (15) to the solenoid valves.

18. Connect wire harness (21). Put the wire harnesses in position, and install the clips and bolts that hold them in place.

19. Make sure the O-ring seals are in position in the ends of tube assemblies (17), and install the tube assemblies.



20. Install guard assemblies (22) and (23).

21. Connect hose assembly (24).

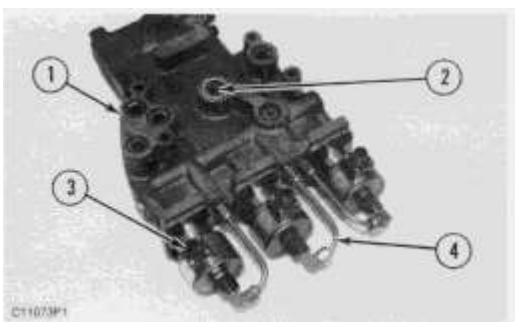
22. Adjust the transmission hydraulic control valves. See Testing And Adjusting.

## Disassemble Transmission Hydraulic Control Valves

Tools Needed		A
1P1853	Retaining Ring Pliers	1

START BY:

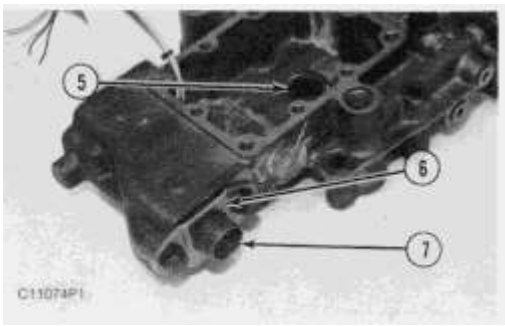
a. remove transmission hydraulic control valves



1. Remove O-ring seals (1) from the switch manifold.

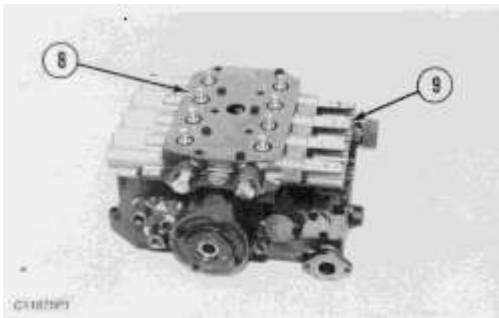
2. If necessary, remove bearing (2).

3. Remove tube assemblies (4) and solenoid valves (3) from the switch manifold. Remove the O-ring seals from the switch manifold.

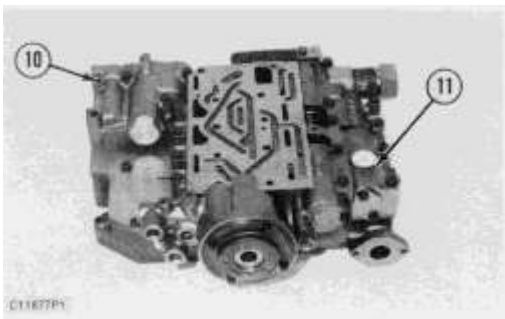


4. Remove the bolts, cover (6) and wire harness (7) from the switch manifold.

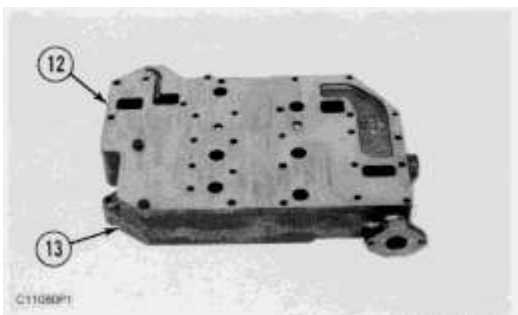
5. Remove seal (5).



6. Remove the bolts, cover (8) and valve group (9).



7. Remove valve groups (10) and (11) from the manifold.



8. Remove the bolts and plate (12) from manifold (13).

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