

Product: WHEEL SCRAPER

Model: 637G WHEEL SCRAPER AWE

Configuration: 637G WHEEL SCRAPER-COAL BOWL AWE00001-UP (MACHINE) POWERED BY 3306 Engine

## Disassembly and Assembly 637G Wheel Tractor-Scraper Power Train

Media Number -REN4074-01

Publication Date -01/04/2005

Date Updated -16/05/2005

i02310162

# Transmission Hydraulic Control Valve - Disassemble

SMCS - 3073-015

## Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Description	Qty
A	1P-1853	Retaining Ring Pliers	1

### Start By:

- a. Remove the transmission hydraulic control valve. Refer to Disassembly and Assembly, "Transmission Hydraulic Control Valve - Remove".

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### 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.

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**Note:** Hold each cover securely in order to contain the spring pressure when you remove the bolts.

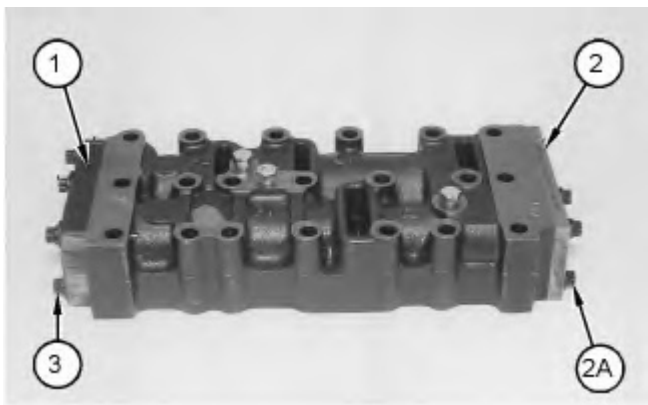


Illustration 1

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**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.**

1. Remove bolts (3) from cover (1).
2. Remove bolts (2A) from cover (2).

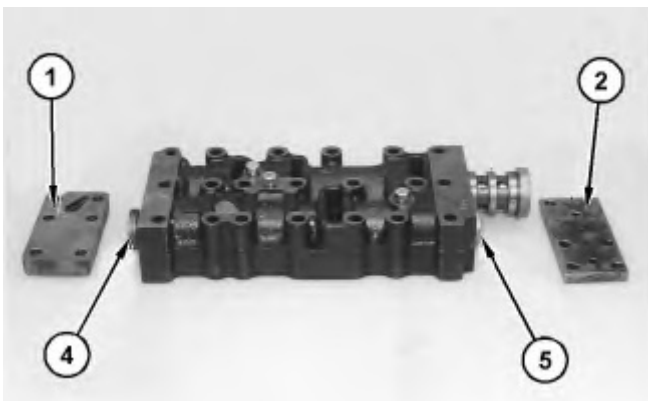


Illustration 2

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3. Remove cover (1) and cover (2). Remove piston (4). Remove spool (5).

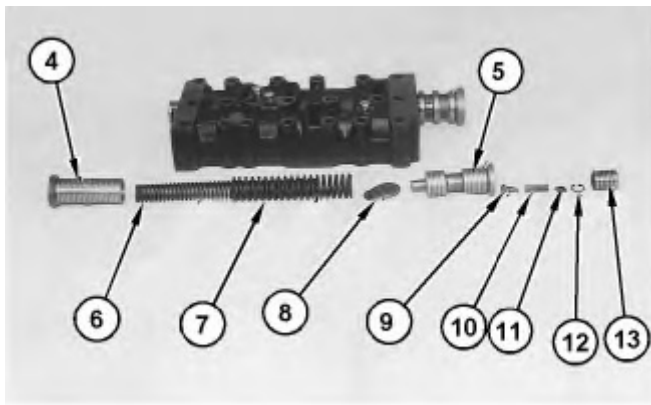


Illustration 3

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## **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 piston (4), spring (6), and spring (7). Remove spacers (8).
5. Remove slug (13).
6. Use Tooling (A) in order to remove retaining ring (12).
7. Remove retainer (11). Remove spring (10).
8. Remove plunger (9) from spool (5).

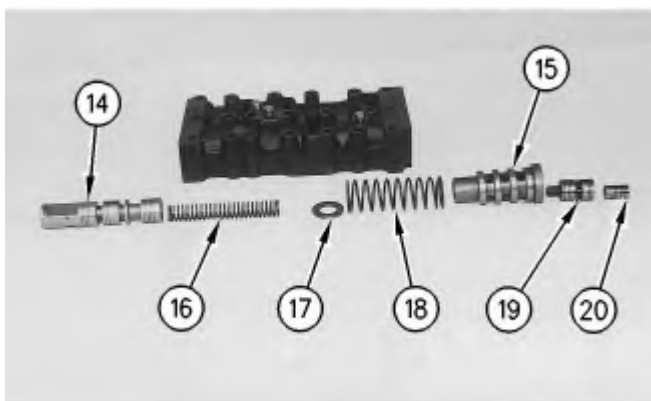


Illustration 4

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9. Remove spool (14). Remove stop (15).
10. Remove spring (16).
11. Remove slug (20) and remove spool (19).
12. Remove spring (18). Remove washer (17).



Illustration 5

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13. Remove load spool (21). Remove speed spool (22).

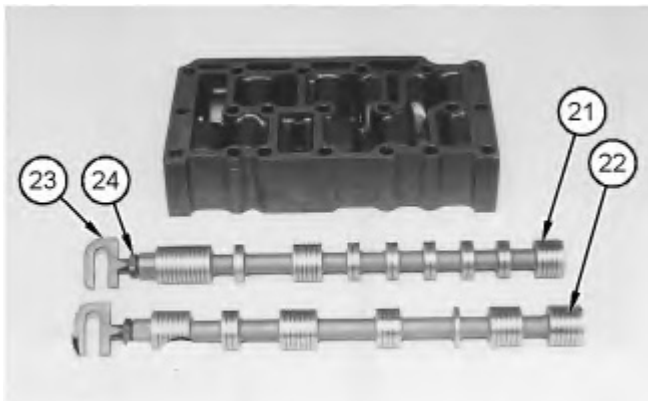
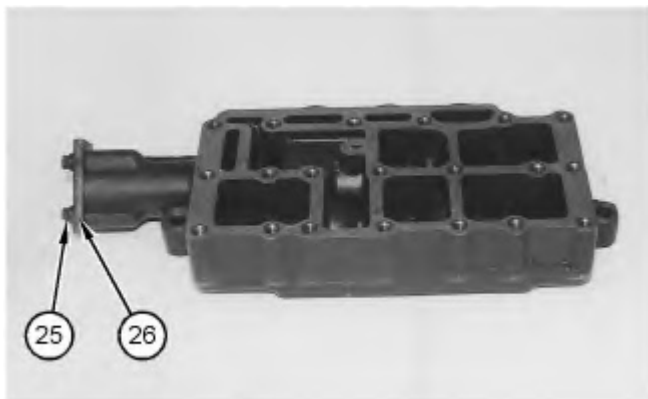


Illustration 6

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14. If necessary, loosen locknuts (24) and remove links (23) from spools (21) and (22).





**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.**

**Note:** Hold the cover securely in order to contain the spring pressure when you remove the bolts.

15. Remove bolts (25) and cover (26).

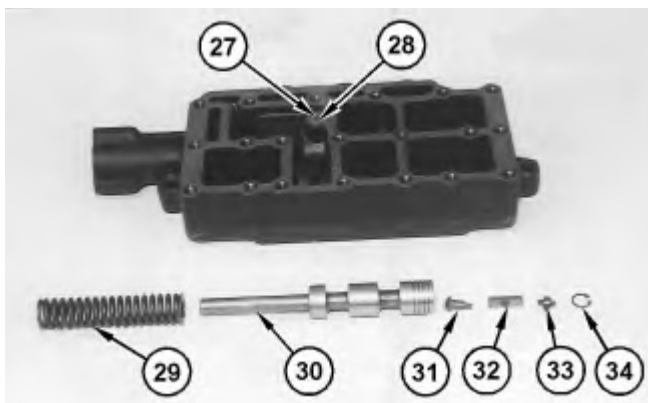


Illustration 8



**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.**

16. Remove spring (29) and spool assembly (30).
17. Use Tooling (A) to remove retaining ring (34) from spool (30).

18. Remove retainer (33), spring (32), and plunger (31).

19. If necessary, remove dowel (27) and remove stop (28).

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## Disassembly and Assembly 637G Wheel Tractor-Scraper Power Train

Media Number -REN4074-01

Publication Date -01/04/2005

Date Updated -16/05/2005

i02310163

# Transmission Hydraulic Control Valve - Assemble

SMCS - 3073-016

## Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Description	Qty
A	1P-1853	Retaining Ring Pliers	1

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### 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.**

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