



# Service Repair Manual

## **Models**

# D350E Articulated Truck

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Product: ARTICULATED TRUCK

Model: D350E ARTICULATED TRUCK 9LR

Configuration: D350E Articulated Truck 9LR00001-UP (MACHINE) POWERED BY 3406 Engine

## Disassembly and Assembly D350E & D400E ARTICULATED TRUCKS MACHINE SYSTEMS

Media Number -SEN8693-01

Publication Date -01/04/2004

Date Updated -29/01/2009

SEN86930028

### Hoist Control Valve

SMCS - 5136-016; 5136-010; 5136-015

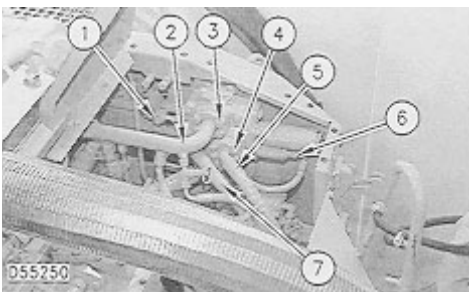
### Remove & Install Hoist Control Valve



**WARNING**

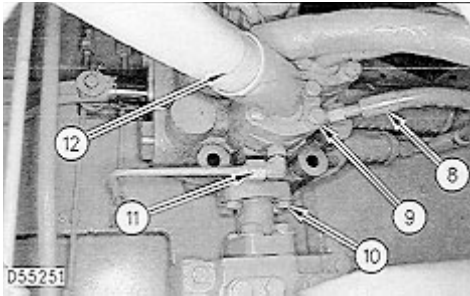
**At operating temperature, the hydraulic oil tank is hot and under pressure. Hot oil can cause burns. Remove the breather filter cap only when the engine is stopped and the breather filter cap is cool enough to touch. Slowly loosen the breather filter cap to release any pressure in the hydraulic tank. Be cautious of hot hydraulic oil when any lines are disconnected in the hydraulic system.**

**NOTE:** Put identification on all lines, hoses, wires, and tubes for installation purposes. Cap and plug all lines, hoses and tubes to prevent foreign material from entering the system.

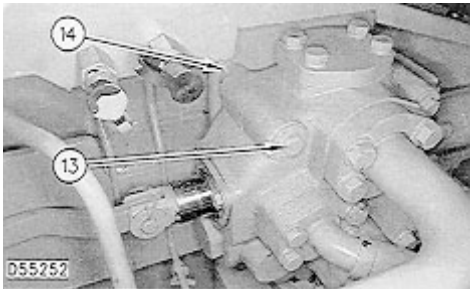


1. Remove cotter pin (1), pin and washers that connect the hoist control valve to the linkage.
2. Remove four bolts (3), washers and the flange halves that hold tube assembly (2). Set tube assembly (1) away from the hoist control valve.

3. Remove four bolts (4), washers and flange halves that hold hose assembly (5) and remove hose assembly (5).
4. Repeat step 3 for the removal of hose assembly (7).
5. Remove hose assembly (6).



6. Remove hose assembly (8).
7. Disconnect tube assembly (11).
8. Remove four bolts (9), washers and the flange halves that hold hose assembly (12) and remove hose assembly (12).
9. Remove four bolts (10), washers and the flange halves located on the bottom of the hoist control valve.



10. Remove two bolts (13), washers and spacers (14) that hold the hoist control valve and remove the hoist control valve.

**NOTE:** For installation of the hoist control valve, reverse the removal steps.

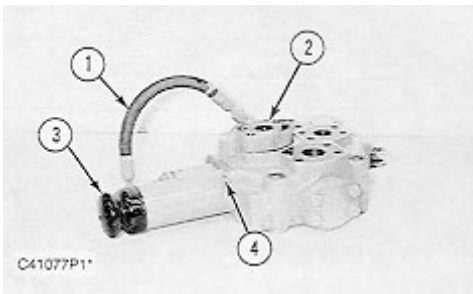
**NOTE:** Refer to the Topic "Lubricant Viscosities and Refill Capacities" in the Operation and Maintenance Manual for the proper filling procedure and the proper levels for the hydraulic system and the cooling system.

7. Fill the hydraulic oil tank to the correct level, refer to the Operation & Maintenance Manual.

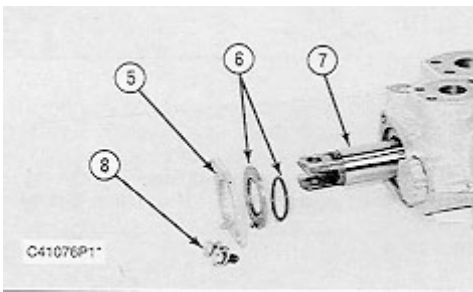
## Disassemble Hoist Control Valve

Start By:

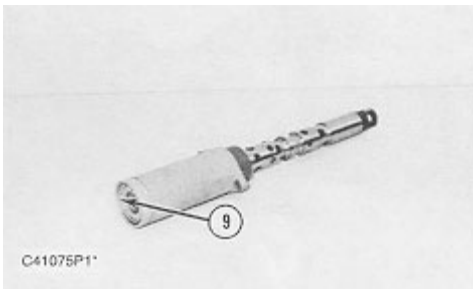
- a. remove hoist control valve



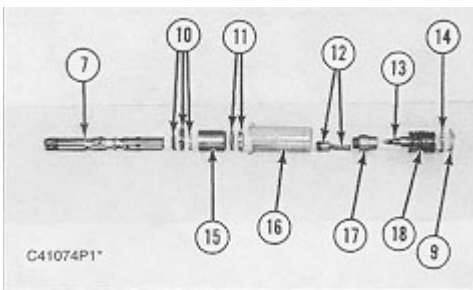
1. Disconnect line (1) from the relief valve.
2. Remove flange (2).
3. Remove boot (3) from cover.
4. Remove bolts (4) from cover.



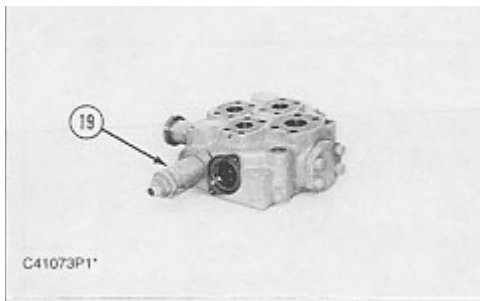
5. Turn the control valve body around and remove two bolts (8).
6. Remove seal retainer (5). Remove seals (6) from the valve housing.
7. Pull main control spool assembly (7) from the valve housing.



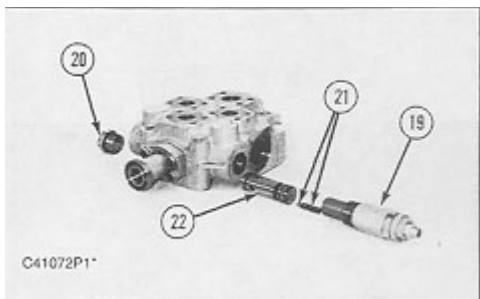
8. Remove retainer ring (9) from the cover plate.



9. Remove cover plate (14), spring and spring retainers (18), poppet (13), detent cap (17), spring check valve (12), cover (16), seal and spacer (11), relief valve sleeve (15) and seals and spacer (10) from the main control valve spool (7).



10. Remove line relief valve (19) from the valve housing.

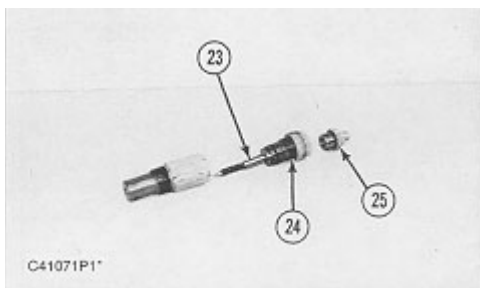


11. Poppet and spring (21) will fall out of relief valve when it is removed.

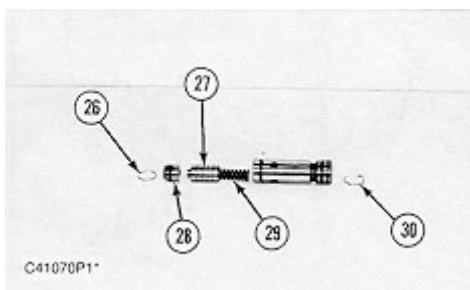
12. Remove relief valve assembly (22) from the valve housing.

13. Remove plug (20) from the valve housing.

**NOTE:** Inspect all O-ring seals on all relief valves and plugs.



14. Remove adjusting nut (25), jam nut (24) and plunger (23) from the body of the line relief valve.



15. Remove circlips (26) and (30) from the relief valve.

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