



# Service Repair Manual

## **Models**

# D300E Articulated Truck

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Tools Needed		A	B	C	D	E
5P-9736	Link Bracket	2				
3S-6224	Pump Group		1			
6V-4035	Sleeve Assembly		1			
8H-7539	Nut		2			
4C-9634	Stud Puller		1			
6V-3170	Cylinder Group		1			
1H-3112	H-Bar			1		
1U-9895	H-Bar			1	1	
4C-5809	Pump			1	1	
5P-9725	Cylinder			1		
6V-3175	Cylinder				1	
1H-3109	Legs				2	
1H-9889	H-Bar				1	
3H-0465	Brackets				2	
3H-0468	Brackets				2	
FT-1645	Spacer				1	
1P-0471	Plate				1	
1U-7244	Hammer					1

Start By:

- a. separate tractor and trailer

### FLUID SPILLAGE CONTAINMENT

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the machine. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids. Refer to "Tools And Shop Product Guide, NENG2500", for Tools and supplies suitable to collect and contain fluids in Caterpillar machines. Dispose fluids according to local regulations and mandates.



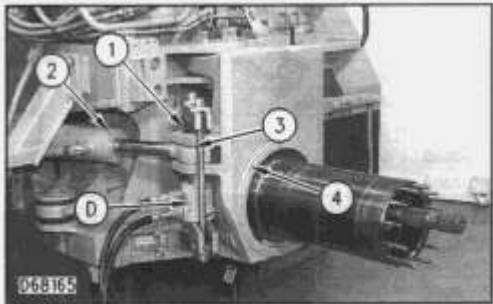
**At operating temperature, the hydraulic oil tank is hot and under pressure. Hot oil can cause burns. Remove the breather filter cap only when the engine is stopped and the breather filter cap is cool enough to touch. Slowly loosen the breather filter cap to release any pressure in**

**the hydraulic tank. Be cautious of hot hydraulic oil when any lines are disconnected in the hydraulic system.**

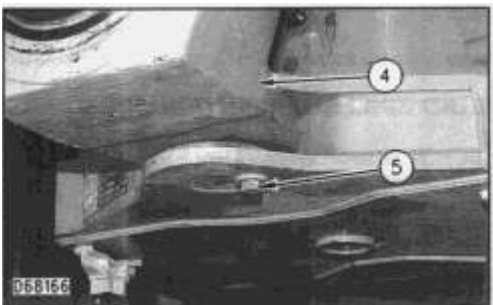
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**NOTE:** Put identification on all lines, hoses, wires and tubes for installation purposes. Cap and plug all lines, hoses and tubes to prevent foreign material from entering the system.

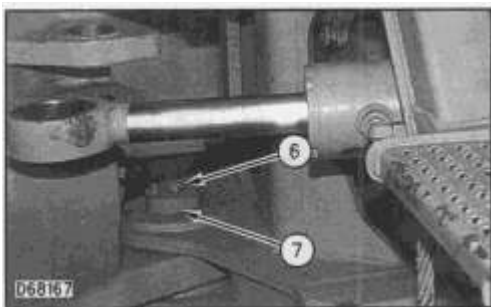
**NOTE:** Drain all fluids in a suitable container for storage or disposal.



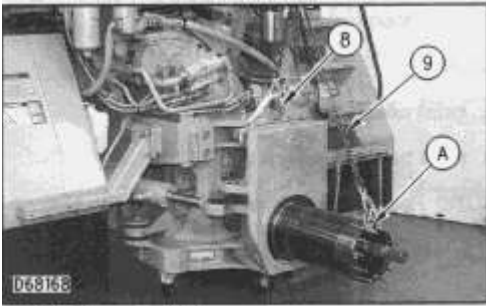
1. Use Tooling (D) to remove pin (1) from steering cylinder (2) at its pivot point (3) on hitch (4).
2. Repeat step number 1 for the opposite side of the hitch.



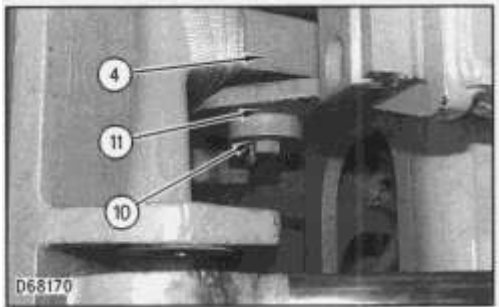
3. Remove bolt and retainer (5) from hitch (4).



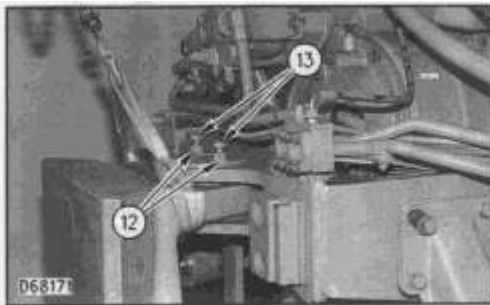
4. Remove bolt and retainer (6) from lower hitch pin (7).



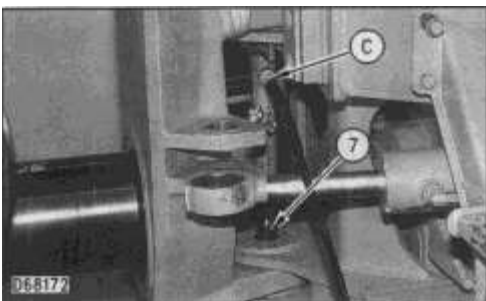
**5.** Install Tool (A) and attach lifting straps (8) and safety chains (9) as shown and attach to a suitable lifting device.



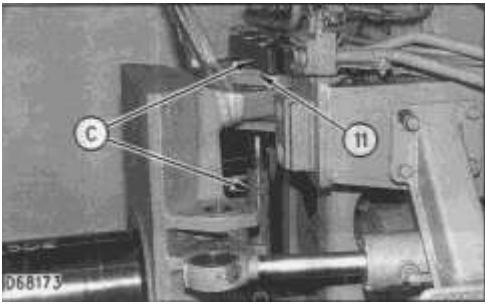
**6.** Remove bolt and retainer (10) from upper pivot pin (11) of hitch (4).



**7.** Loosen lock nuts (12) and remove thrust ring adjusting bolts (13).

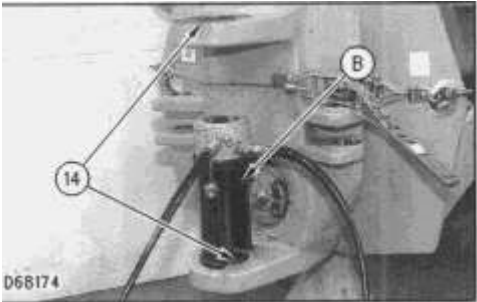


**8.** Use Tooling (C) to remove the lower hitch pin (7).



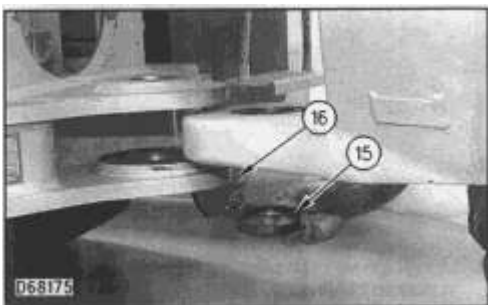
9. Use Tooling (C) to remove the upper hitch pin (11).

10. Remove hitch from the tractor. The weight of the hitch is **391 kg (860 lb)**.

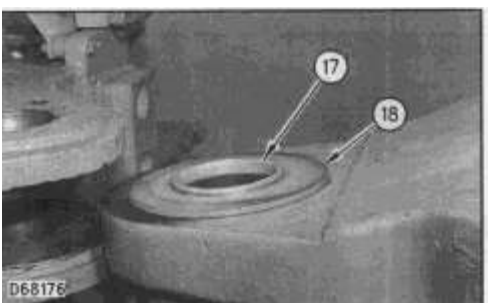


11. Use Tooling (B) to remove upper and lower spherical bearing (14), if necessary.

**NOTE:** The following steps are for the installation of the oscillating hitch.



12. Using vacuum type grease position "V" seal with spacer (15) in lower hitch bearing cavity (16).



13. Position upper thrust ring (17) on upper pivot point hitch (18).

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