



Service Repair Manual

Models

D300D ARTICULATED
TRUCK

Product: ARTICULATED TRUCK
Model: D300D ARTICULATED TRUCK 5MG
Configuration: D300D ARTICULATED TRUCK 5MG00001-UP (MACHINE)

Disassembly and Assembly D300D ARTICULATED TRUCK POWER TRAIN

Media Number -SEN8213-03

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SEN82130003

Final Drive Planet Carriers And Ring Gears

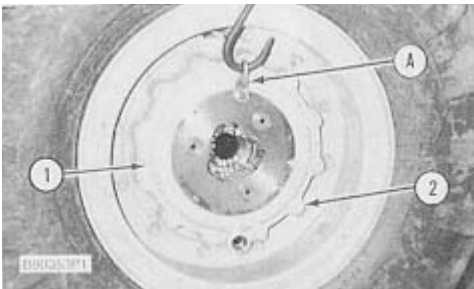
SMCS - 4055-011; 4055-012; 4092-015; 4092-016; 4092

Remove Final Drive Carriers And Ring Gears

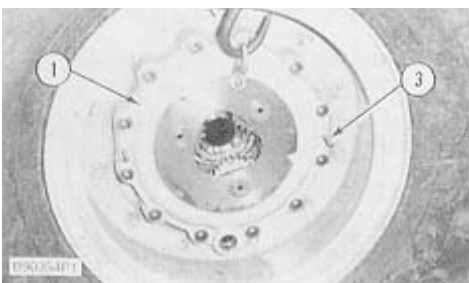
Tools Needed		A
6V2156	Link Bracket	1

Start By:

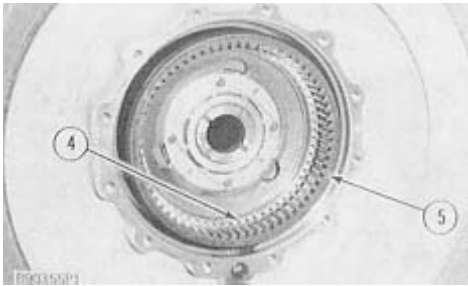
a. remove axles (front or rear)



1. Fasten tool (A) and a hoist to the final drive planet carrier (1) as shown.
2. Remove bolts (2) that hold the final drive planet carrier (1) to the wheel assembly.



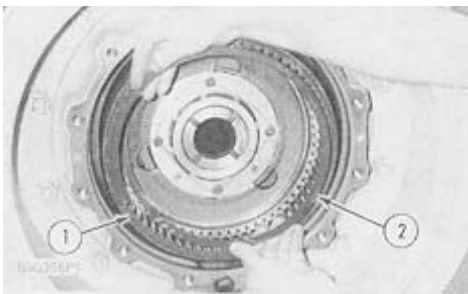
3. Install two 3/8" - 16 NC forcing screws (3) and loosen final drive planet carrier (1) from the wheel assembly. Remove the final drive planet carrier from the wheel assembly. The weight of the final drive planet carrier is **31 kg (68 lb)**.
4. Remove the O-ring seal from the final drive planet carrier.



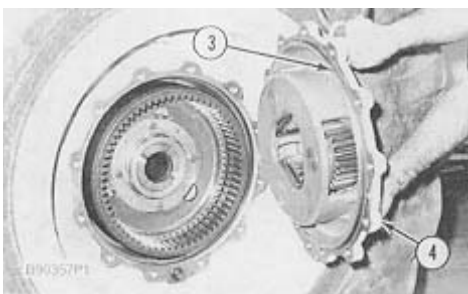
5. Remove retaining ring (4) that holds ring gear (5) to the hub assembly and remove ring gear (5).

Install Final Drive Carriers And Ring Gears

Tools Needed		A
6V2156	Link Bracket	1



1. Put ring gear (1) in position on the hub assembly, and install retaining ring (2) that holds the ring gear on the hub assembly.



2. Install O-ring seal (3) on the final drive carrier (4), and put clean oil on it.
3. Fasten tool (A) and a hoist to final drive planet carrier (4) as shown.
4. Put final drive planet carrier (4) in position on the wheel assembly.



5. Install 12 bolts (5) that hold the final drive planet carrier to the wheel assembly. Tighten the bolts to a torque of $270 \pm 25 \text{ N}\cdot\text{m}$ ($200 \pm 18 \text{ lb ft}$).

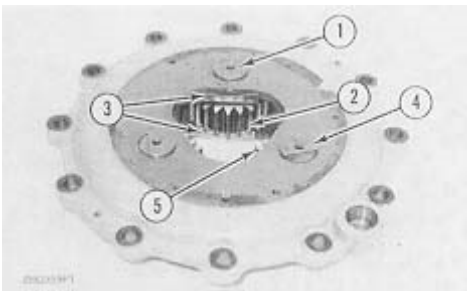
End By:

- a. install axles (front and rear)

Disassemble Final Drive Planet Carriers

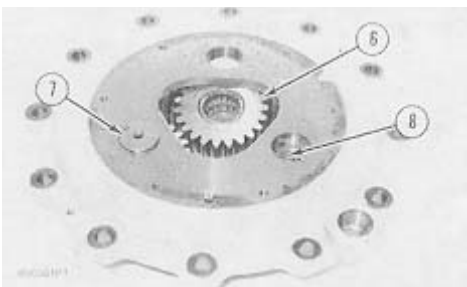
Start By:

- a. remove final drive planet carriers and ring gears



NOTE: Two shafts must be removed from the final drive planet carrier so that one of the gears can be removed.

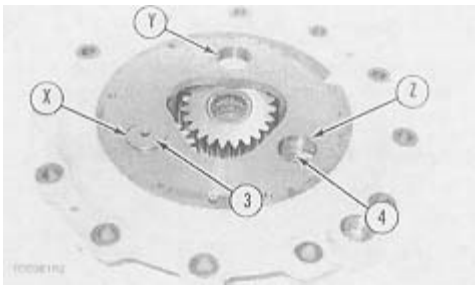
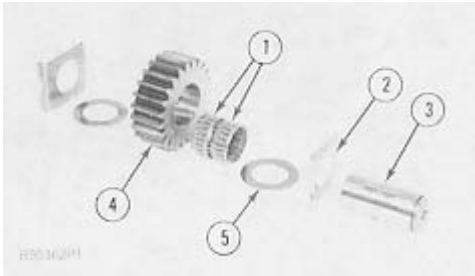
1. Remove shafts (1) and (4) from the final drive planet carrier.
2. Remove lockwashers (3) and the thrust washers from each side of the gears (2) and (5).



3. Push gear (8) into the final drive planet carrier, and remove gear (6) from the planet carrier.
4. Remove gear (8) from the planet carrier.
5. Remove shaft (7) and the remaining lockwashers, thrust washers and gear from the final drive planet carrier.

6. Remove the two bearing assemblies from each gear.

Assemble Final Drive Planet Carriers



1. Install two bearing assemblies (1) in each gear (4).

NOTE: Thrust washers (5) must be installed next to gears (4), and lockwashers (2) must be installed between thrust washers (5) and the final drive planet carrier.

2. Install the gear assemblies in the final drive planet carrier as follows:

a. Install gear (4), thrust washers (5) and lockwashers (2) at position (X) in the final drive planet carrier to hold them.

b. Install another gear (4) at position (Y) in the final drive planet carrier. Push the gear into the planet carrier to provide clearance so that the last gear can be installed.

c. Install last gear (4) at position (Z) in the final drive planet carrier.

3. Install the thrust washers, and lockwashers (2) on each side of the gears (4) at positions (Y) and (Z) in planet carrier.

NOTE: Make sure the flat side of shafts (3) are toward the outside diameter of the final drive planet carrier so that the cover assembly can be installed. For more details concerning positioning of shafts (3), see **Install Axles (Front And Rear)**.

4. Install shafts (3) at positions (Y) and (Z) in the planet carrier.

End By:

a. install final drive planet carriers and ring gears

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