

Product: TRACK-TYPE TRACTOR

Model: D6R TRACK-TYPE TRACTOR S6Y

Configuration: D6R TRACK-TYPE TRACTOR STD, XL, LGP S6Y00001-UP (MACHINE) POWERED BY C9 Engine

## Disassembly and Assembly D6R Track-Type Tractor Power Train

Media Number -KENR8565-02

Publication Date -01/02/2014

Date Updated -24/02/2014

i05236991

# Final Drive - Disassemble

SMCS - 4050-015

## Disassembly Procedure

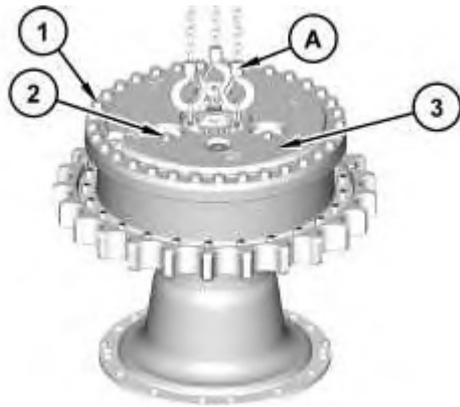
Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	3
	1A-2029	Bolt	1
B	1P-510	Driver Group	1
C	FT-1934	Beam	1
	6V-3160	Double Acting Cylinder	1
	6V-9061	Pump Group	1
	1D-4621	Bolt	4
D	138-7574	Link Bracket	2
	2A-1538	Bolt	2

### Start By:

- A. Remove the final drives. Refer to Disassembly and Assembly, "Final Drive - Remove" for the correct procedure.

**Note:** Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

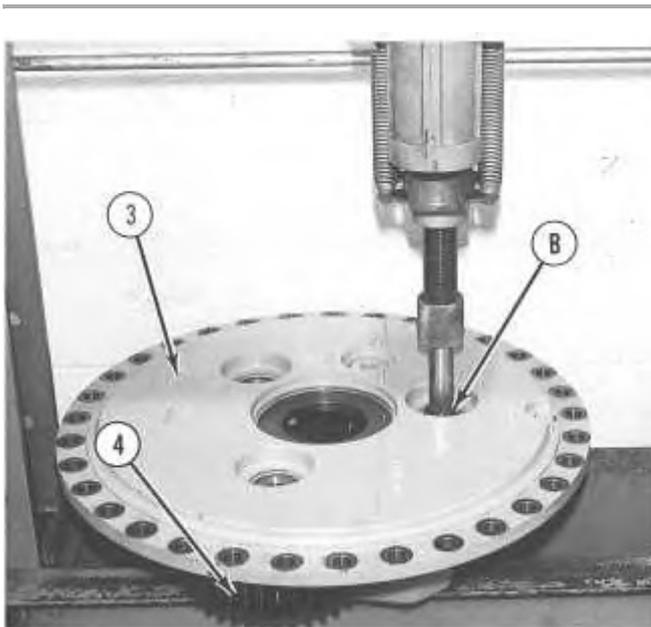


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Illustration 1

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1. Install Tooling (A) and a suitable lifting device to planetary carrier (3) .
2. Remove bolts (1). Remove planetary carrier (3) and the two O-ring seals from the hub. The weight of planetary carrier (3) is approximately 137 kg (302 lb).
3. Remove retainers (2) .



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Illustration 2

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4. Place support under planetary carrier (3) in order to prevent damage. Use Tooling (B) and a suitable press to remove the planetary gear shafts.
  5. Remove planetary gears (4) from planetary carrier (3) .
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Illustration 3

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6. Remove bearing cones (5) from gears (4) .
7. Remove the bearing cups from each side of the gears.

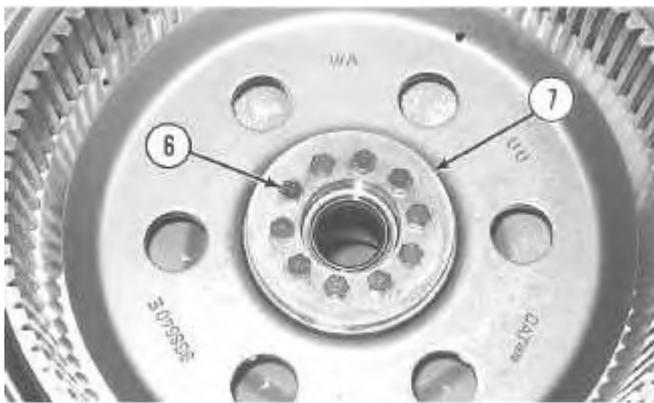


Illustration 4

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Illustration 5

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8. Remove bolts (6) and retainer (7) .

9. Attach a suitable lifting device to hub (12) and ring gear (8). The weight of hub (12) and ring gear (8) is approximately 68 kg (150 lb). Remove hub (12) and ring gear (8) .



Illustration 6

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10. Turn over hub (9) and ring gear (8). Remove retaining ring (10). Attach a suitable lifting device to hub (9). The weight of hub (9) is approximately 37 kg (82 lb). The weight of ring gear (8) is approximately 32 kg (71 lb). Remove hub (9) .

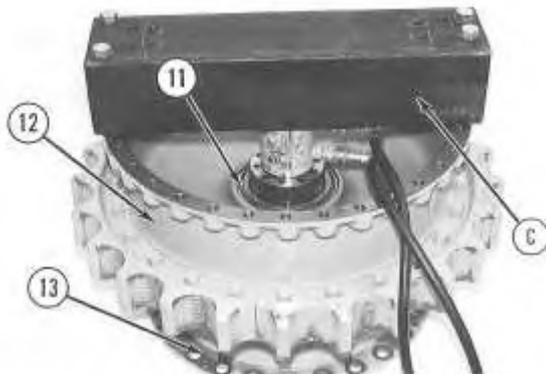


Illustration 7

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11. Install Tooling (C) on hub (12).

**Note:** Do not lift hub (12) too high. Do not allow hub (12) to contact the fitting on the hydraulic cylinder.

12. Use Tooling (C) to loosen hub (12) from spindle (13). Remove Tooling (C) .
  13. Remove bearing cone (11) .
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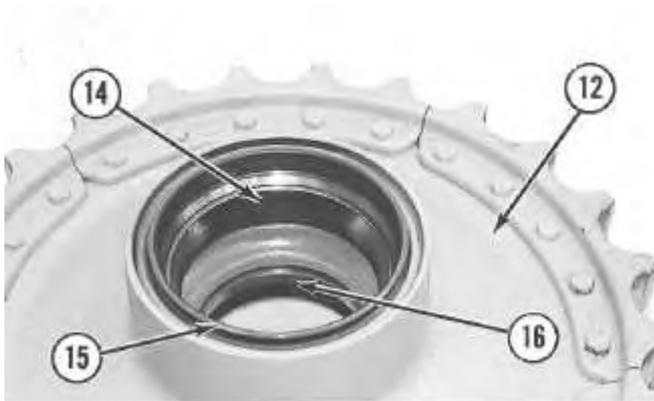


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Illustration 8

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14. Install Tooling (D) and a suitable lifting device to hub (12). Remove hub (12) from spindle (13). The weight of hub (12) is approximately 180 kg (397 lb).



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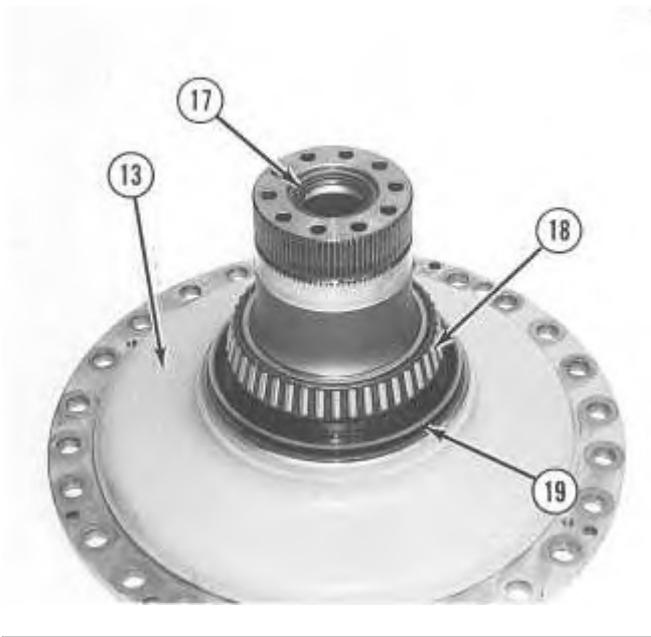
Illustration 9

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15. Turn over hub (12). Remove Duo-Cone seal kit (15). Use a hammer and a punch to remove bearing cup (16) .
16. Turn over the hub. Remove bearing cup (14) from the hub.

**Note:** If the Duo-Cone seal will be reused, mark the seal kits for installation purposes.

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Illustration 10

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**Note:** Bearing cone (18) may be damaged if the bearing cone is removed from spindle (13) .

17. Remove Duo-Cone seal (19) from spindle (13) .
  18. If necessary, remove bearing cone (18) from the spindle.
  19. Remove lip seal (17) from spindle (13) .
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## Disassembly and Assembly D6R Track-Type Tractor Power Train

Media Number -KENR8565-02

Publication Date -01/02/2014

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i06701251

### Final Drive - Assemble

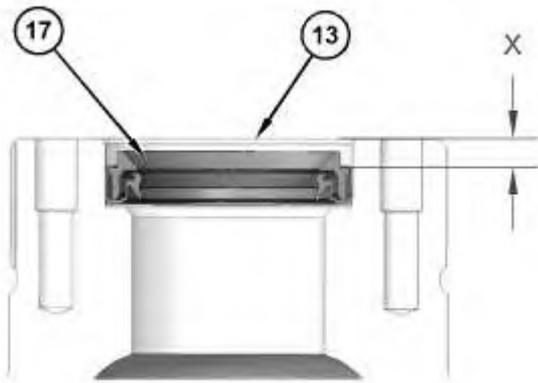
SMCS - 4050-016

### Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	3
	1A-2029	Bolt	3
B	1P-0520	Driver Gp	1
D	138-7574	Link Bracket	2
	2A-1538	Bolt	2
E	8M-9395	Installer	1

1. Apply clean oil to all the parts during assembly.
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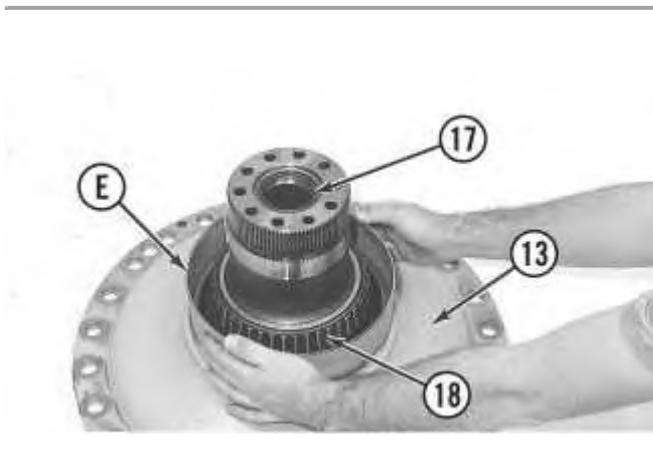
Illustration 1

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2. Use Tooling (B) to install lip seal (17) in spindle (13) to a depth of (X)  $9 \pm 0.25$  mm ( $0.3543 \pm 0.0098$  inch). Put clean oil on the lip of the seal.

**Note:** Dimension (X) is measured from the face of the spindle to the top of the metal can of the lip seal in the orientation shown.

**Note:** Do not apply excessive force to lip seal (17) during installation to avoid damaging the seal.



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Illustration 2

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3. Raise the temperature of bearing cone (18) to a maximum temperature of  $135$  °C ( $275$  °F). Install bearing cone (18) on spindle (13).

**Note:** Before the installation of the Duo-Cone seal, refer to Disassembly and Assembly, "Duo-Cone Floating Seals - Install" for the correct procedure.

4. Use Tooling (E) to install the Duo-Cone seal on spindle (13).
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Illustration 3

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5. Lower the temperature of bearing cups (14) and (16). Install bearing cups (14) and (16) in hub (12).
6. Use Tooling (E) to install the Duo-Cone seal in hub (12).



Illustration 4

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7. Install Tooling (D) on hub (12). Attach a suitable lifting device to Tooling (D). Carefully position hub (12) on spindle (13).



Illustration 5

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