

Product: TRACK-TYPE TRACTOR

Model: D6R LGP TRACK-TYPE TRACTOR PPP

Configuration: D6R2 TRACK-TYPE TRACTOR STD, XL, LGP PPP00001-UP (MACHINE) POWERED BY C9 Engine

Disassembly and Assembly D6R2 Track-Type Tractor Power Train

Media Number -UENR4108-02

Publication Date -01/09/2015

Date Updated -08/09/2015

i05979783

Steering Planetary and Brake - Disassemble

SMCS - 4132-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Description	Qty
A	439-3940	Link Bracket As.	3
B	1P-0520	Driver Group	1
C	5B-4274	Forcing Bolt 3/8 - 16 by 3.5 inches	3

Start By:

- A. Remove the final drive, the planetary group, and the brake.
-

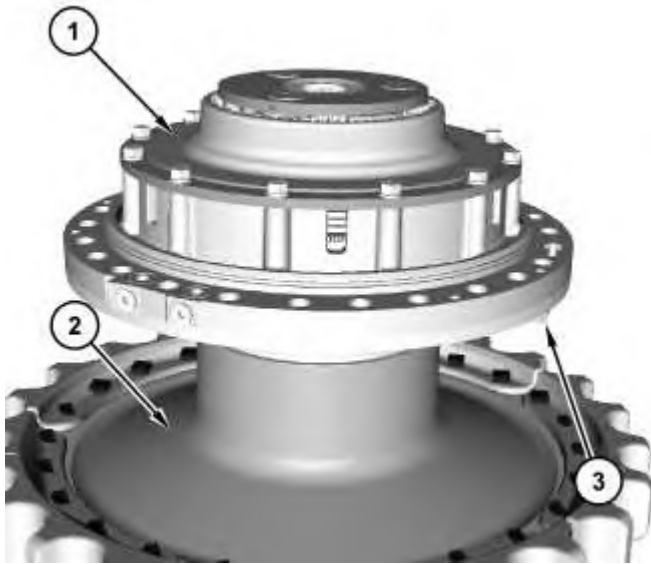


Illustration 1

g02355593

1. Remove bolts (3) that hold planetary group and brake (1) to final drive (2) .
2. Attach Tooling (A) and a suitable lifting device to planetary group and brake (1). The weight of planetary group and brake (1) is approximately 136 kg (300 lb).
3. Install Tooling (C) in the final drive hub.
4. Tighten Tooling (C) evenly in order to remove planetary group and brake (1) from final drive (2) .

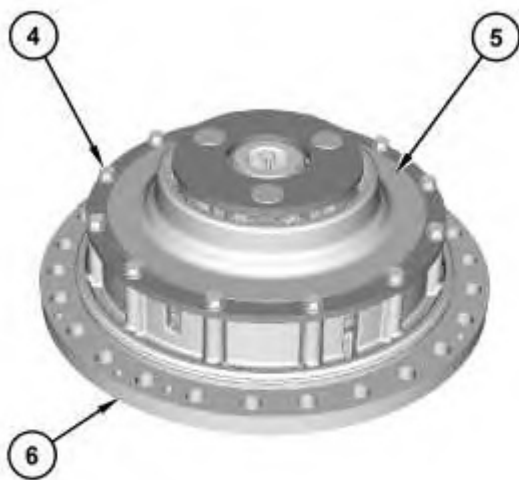


Illustration 2

g02355596

 **WARNING**

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

5. Remove bolts (4). Remove ring gear (5) from housing (6) .



Illustration 3

g02355619

6. Remove friction discs (7) and the brake plates from the housing.

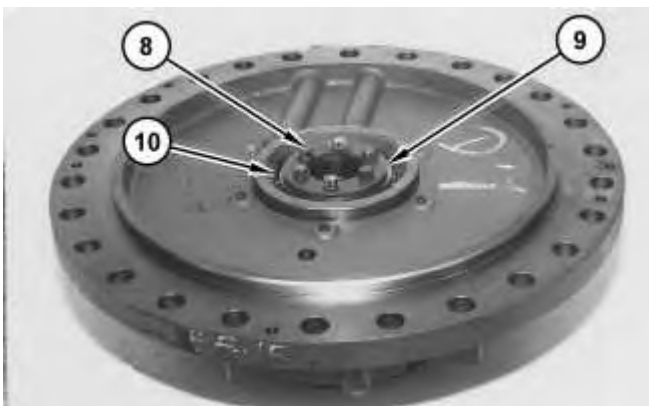


Illustration 4

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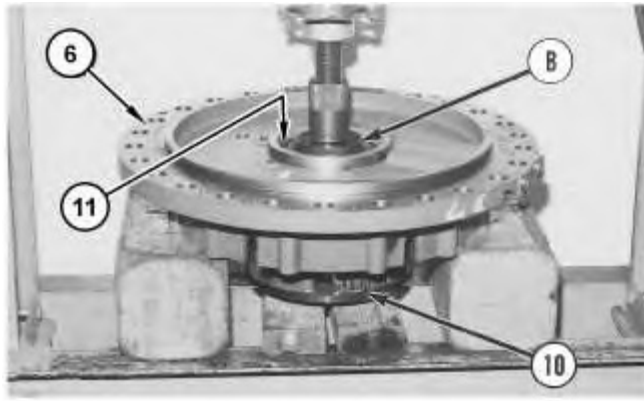


Illustration 5

g02355623

7. Remove bolts (8) and plate (9) .
8. Position the housing on suitable cribbing.

Note: Do not allow planetary carrier (10) to fall when the carrier is pressed from housing (6) .

Note: There may not be shims between plate (9) and planetary carrier (10) .

Note: If planetary carrier (10) is being reused, the existing shims located between plate (9) and planetary carrier (10) can be reused also. If a new planetary carrier (10) is being used, the existing shims should be discarded.

9. Use Tooling (B) and a suitable press to remove planetary carrier (10) from housing (6) .
10. Remove bearing cone (11) from the housing.

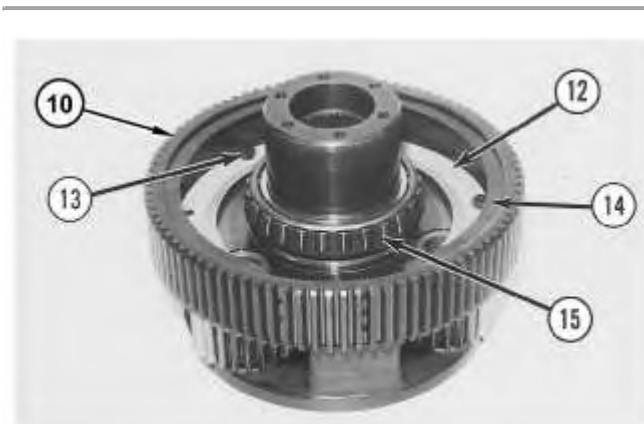


Illustration 6

g01205303

11. Remove ring (14) from planetary carrier (10). Remove bolts (13). Remove slinger (12) from planetary carrier (10) .

NOTICE

The bearing is destroyed if the bearing is removed.

12. If necessary, remove bearing cone (15) from planetary carrier (10) .



Illustration 7

g00622128

13. Use a hammer and a punch to push pin (17) in shaft (16) .



Illustration 8

g01205304

14. Remove shaft (16), planetary gear (19), discs (20), and bearings (21) from planetary carrier (10) .
15. Remove pin (17) from shaft (16) .
16. Repeat Steps 13 through 15 for the remaining planetary gears.
17. Remove sun gear (18) from planetary carrier (10) .
-



Illustration 9

g00622132

⚠ WARNING

Personal injury can result from parts and/or covers under spring pressure.

Spring force will be released when covers are removed.

Be prepared to hold spring loaded covers as the bolts are loosened.

18. Remove bolts (22) .
19. Remove retainer (23) from piston (24) .



Illustration 10

g00622155

20. If necessary, remove bearing cups (25) and seal ring (26) from retainer (23) .



Illustration 11

g00622156

21. Remove piston (24) and O-ring seal (27) from the housing.



Illustration 12

g00622157

22. Remove seal ring (28) from piston (24) .

Note: Inspect the O-ring seals. If necessary, replace the O-ring seals.



Illustration 13

g00819345

23. Remove spring (29) and ring (30) from housing (5) .

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Disassembly and Assembly D6R2 Track-Type Tractor Power Train

Media Number -UENR4108-02

Publication Date -01/09/2015

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i06270170

Steering Planetary and Brake - Assemble

SMCS - 4132-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Description	Qty
A	439-3940	Link Bracket As.	3
D	-	Loctite Hi-Temp Flange Sealant	-

Reference Refer to Specifications, "Brake and Planetary" in the Service Manual for your machine.



Illustration 1

g00819345

Note: Orient the disc spring with the outer edge downward.

1. Install ring (30) and spring (29) into housing (5) .



Illustration 2

g00622157

2. Apply clean oil to seal ring (28) .

Note: Orient the seal ring with the lip downward. Refer to Illustration 2.

3. Install seal ring (28) into piston (24) .



Illustration 3

g00622156

4. Install piston (24) and O-ring seal (27) in the housing.
-



Illustration 4

g00622155

5. Lower the temperature of bearing cups (25). Install bearing cups (25) into retainer (23) .

Note: Orient the seal ring with the lip downward. Refer to Illustration 4.

6. Apply clean oil to seal ring (26). Install seal ring (26) into retainer (23) .



Illustration 5

g00622132

WARNING

Improper assembly of parts that are spring loaded can cause bodily injury.

To prevent possible injury, follow the established assembly procedure and wear protective equipment.

7. Install retainer (23) onto piston (24). Align the oil passage in retainer (23) with the oil passage and the O-ring seal in the housing. Install bolts (22) .

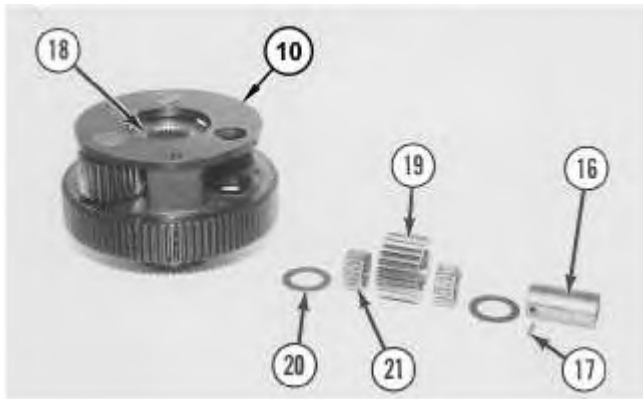


Illustration 6

g01205304



Illustration 7

g00622128

8. Install sun gear (18) into planetary carrier (10) .
9. Install bearings (21) into planetary gear (19) .
10. Install discs (20) and planetary gear (19) into planetary carrier (10). Install shaft (16) .

Note: If the rubber in pin (17) is damaged, replace pin (17) .

11. Align the hole in shaft (16) with the hole in planetary carrier (10) and install pin (17). Install pin (17) until the pin is even with the surface of planetary carrier (10) .
 12. Repeat Steps 9 through 11 for the remaining planetary gears.
-

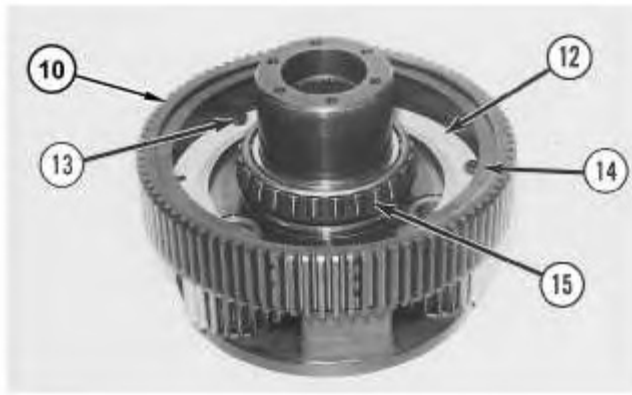


Illustration 8

g01205303

Note: If bearing cone (15) was removed from planetary carrier (10), a new bearing must be installed.

13. Raise the temperature of bearing cone (15). Install the bearing cone on planetary carrier (10) .
14. Apply Tooling (D) to the flange of slinger (12) .
15. Install slinger (12) onto planetary carrier (10). Install bolts (13). Tighten the bolts to a torque of $50 \pm 10 \text{ N}\cdot\text{m}$ ($37 \pm 7 \text{ lb ft}$).
16. Install ring (14) into planetary carrier (10) .

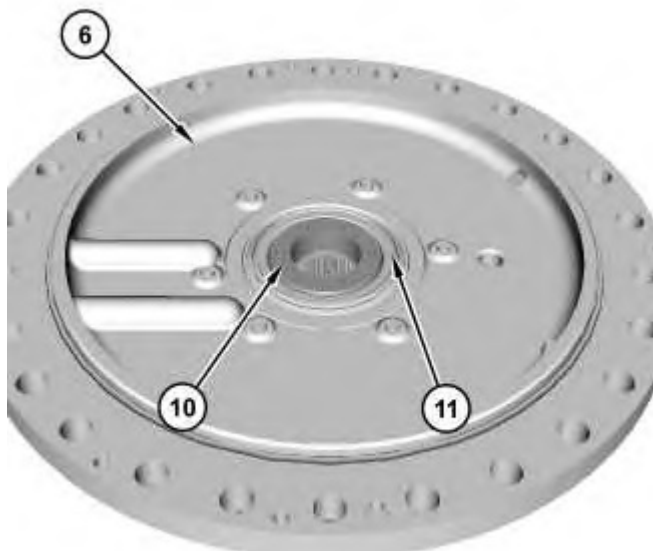


Illustration 9

g02356056

17. Position housing (6) onto planetary carrier (10) .
18. Raise the temperature of bearing cone (11). Install bearing cone (11) onto planetary carrier (10) .

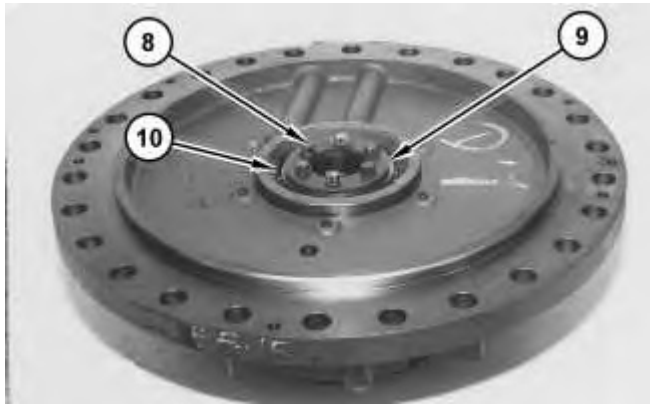


Illustration 10

g02355621

19. Position plate (9) onto the planetary carrier (10) .

Note: Install shims between plate (9) and planetary carrier (10), only if there were shims originally installed in the differential group and if the same planetary carrier is being reused. Shim pack thickness should be 0.310 mm (0.0122 inch).

20. Install bolts (8) .



Illustration 11

g02355619

21. Install friction discs (7) and the brake plates. Alternate the friction discs and the brake plates.
-

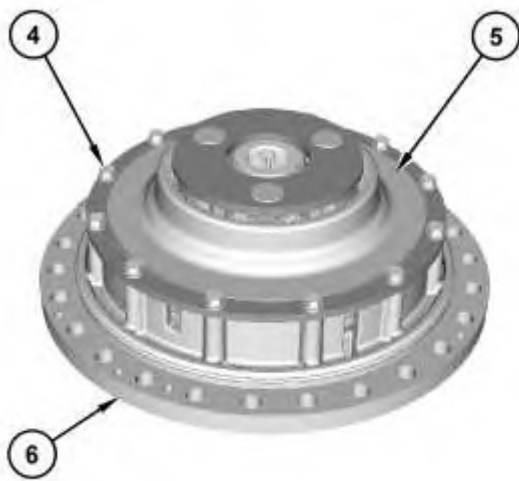


Illustration 12

g02355596

22. Position ring gear (5) onto housing (6) .
23. Install bolts (4). Tighten bolts (4) to a torque of $135 \pm 20 \text{ N}\cdot\text{m}$ ($100 \pm 15 \text{ lb ft}$).

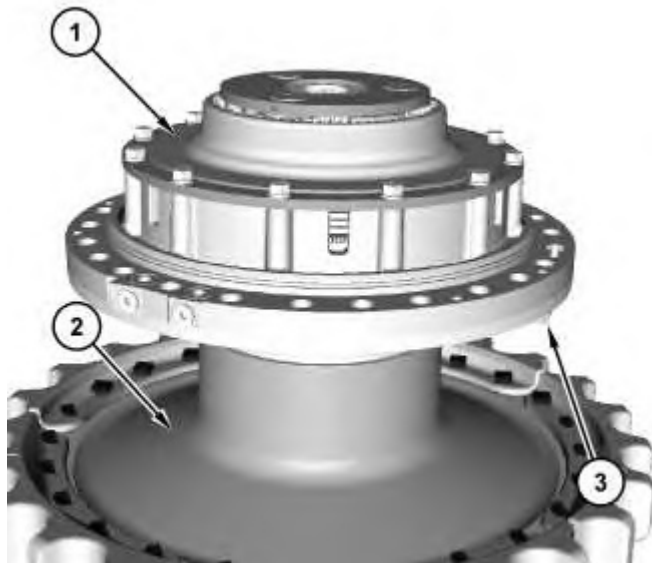


Illustration 13

g02355593

24. Use a suitable lifting device and Tooling (A) to position planetary group and brake (1) onto final drive (2). The weight of the planetary group and brake is approximately 135 kg (300 lb).
25. Install bolts (3) .

End By: Install the final drive, the planetary group, and the brake.

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Disassembly and Assembly D6R2 Track-Type Tractor Power Train

Media Number -UENR4108-02

Publication Date -01/09/2015

Date Updated -08/09/2015

i05978691

Final Drive - Remove and Install

SMCS - 4050-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	FT-1952	Axle Removal Tool	1
B	8T-3207	Lifting Bracket	1
	5P-8622	Shackle	1

Start By:

- A. Separate the track.



WARNING

Without the sun gear in place, the brakes are ineffective. Personal injury or death could result. Provide other means to hold or stop the machine.

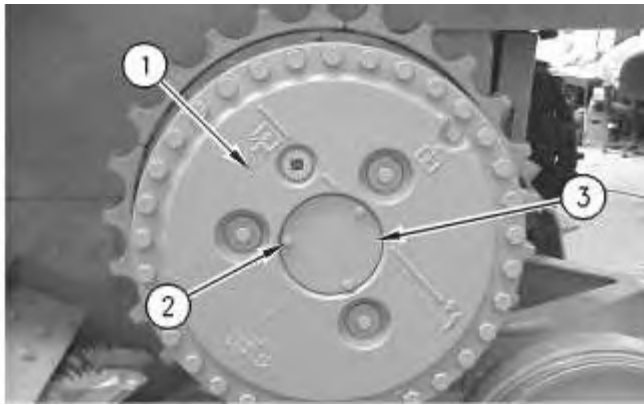


Illustration 1

g00865052

1. Remove bolts (2) and cover (3) from final drive (1) .

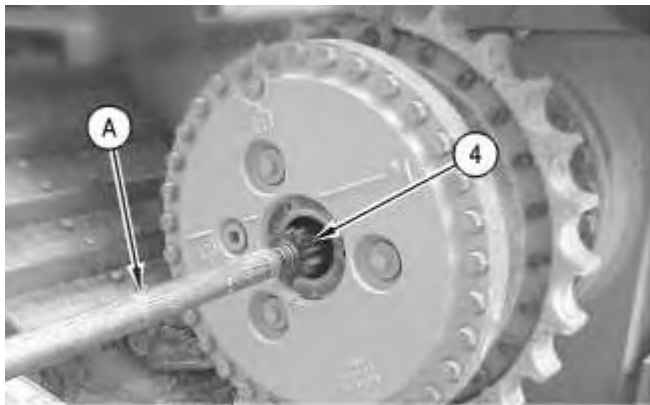


Illustration 2

g00865024

2. Use Tooling (A) in order to remove axle (4) .

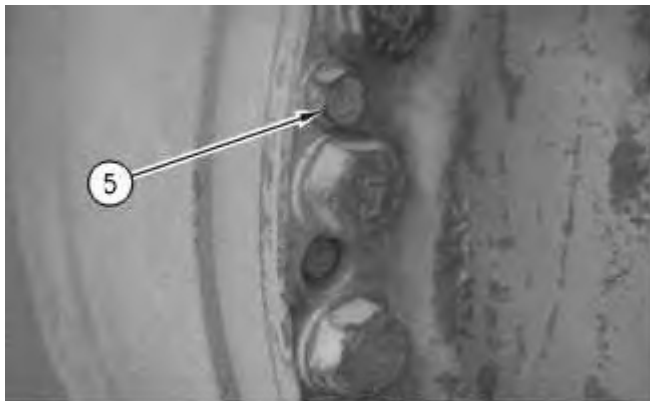


Illustration 3

g00865075

3. Remove two bolts (5) .

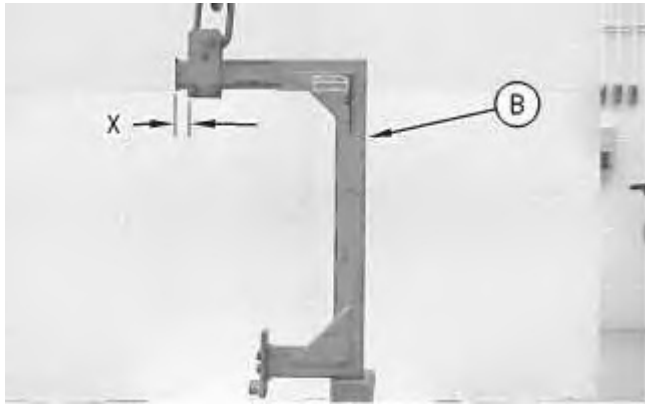


Illustration 4

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4. Adjust the top bracket of Tooling (B) until Dimension (X) is 222.25 mm (8.750 inch).

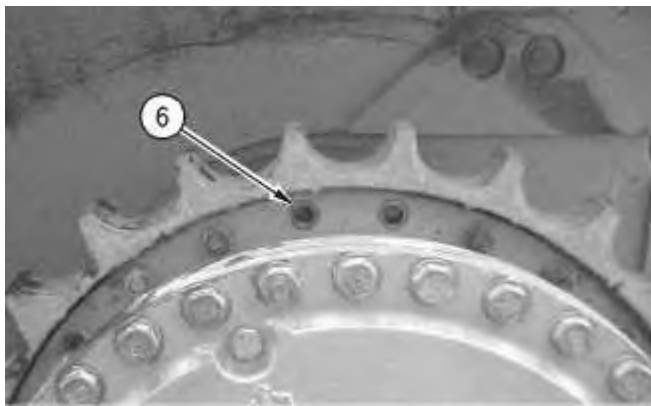
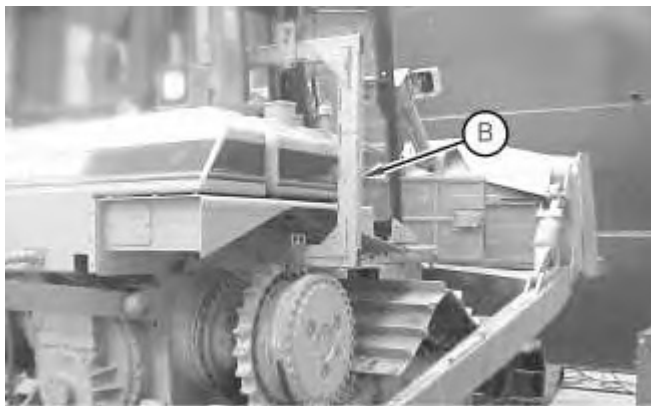


Illustration 5

g00865077

5. Remove two bolts (6) and the nuts from the sprocket segment. Discard bolts (6) and the nuts.



6. Attach Tooling (B) and a suitable lifting device to the final drive. The weight of the final drive is approximately 454 kg (1000 lb).

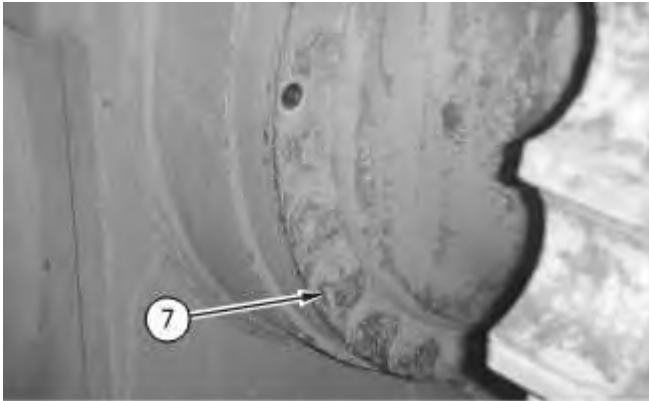


Illustration 7

g00865094

7. Remove bolts (7) that hold the final drive and the brake together.

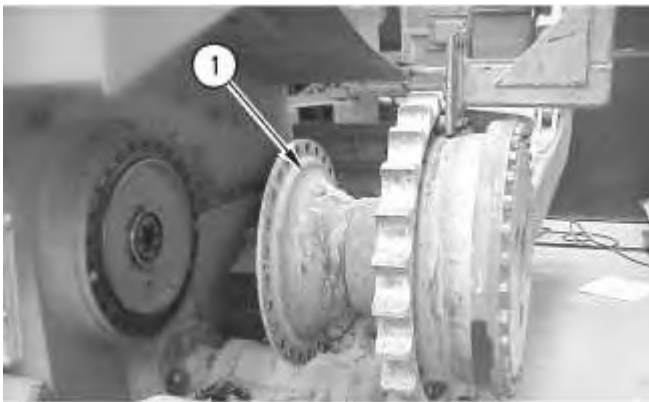


Illustration 8

g00865095

8. Use Tooling (B) to remove final drive (1) from the machine.

Installation Procedure

1. Install final drive (1) in the reverse order of removal.
 - a. Tighten bolts (7) to a torque of $800 \pm 90 \text{ N}\cdot\text{m}$ ($590 \pm 66 \text{ lb ft}$).
 - b. Lubricate new bolts (6) with SAE 30 oil. Install new bolts (6) and the nuts. Tighten bolts (6) to a torque of $175 \pm 40 \text{ N}\cdot\text{m}$ ($130 \pm 30 \text{ lb ft}$). Tighten bolts (6) an additional 1/3 turn.
-

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Disassembly and Assembly D6R2 Track-Type Tractor Power Train

Media Number -UENR4108-02

Publication Date -01/09/2015

Date Updated -08/09/2015

i05979009

Final Drive - Disassemble

SMCS - 4050-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	439-3938	Link Bracket As.	3
	1A-2029	Bolt	1
B	1P-0510	Driver Group	1
C	FT-1934	Beam	1
	6V-3160	Double Acting Cylinder	1
	9U-6600	Hand Hydraulic Pump	1
	1D-4621	Bolt	4
D	439-3939	Link Bracket As	2
	2A-1538	Bolt	2

Start By:

- A. Remove the final drives.



WARNING

When you are using hydraulic cylinders and puller studs, always ensure that the rated capacity of the puller stud meets or exceeds the rated capacity of the hydraulic cylinder. If the puller stud does not meet or exceed the rated capacity of the hydraulic cylinder, a sudden failure of the puller stud could occur. The sudden failure of the puller stud could result in personal injury or death.

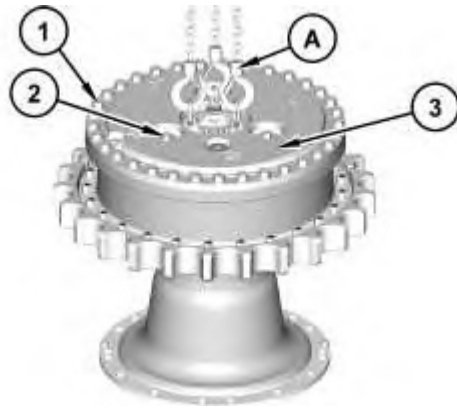
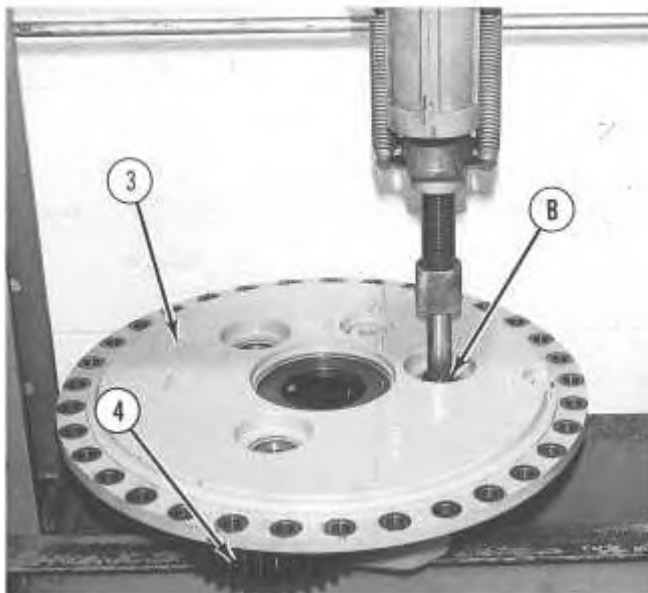


Illustration 1

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1. Attach 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) .



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) .

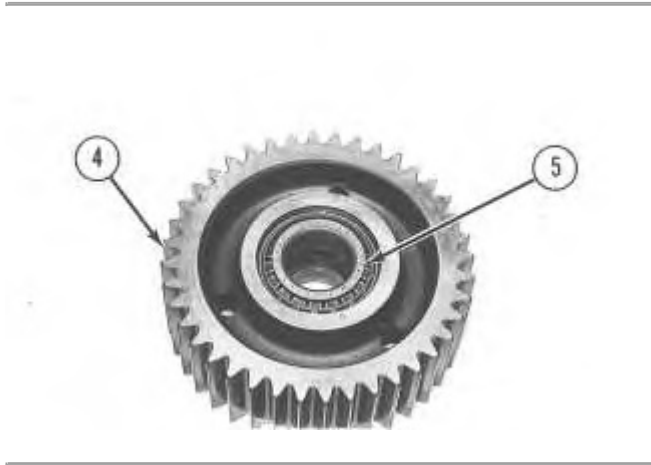


Illustration 3

g00841091

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

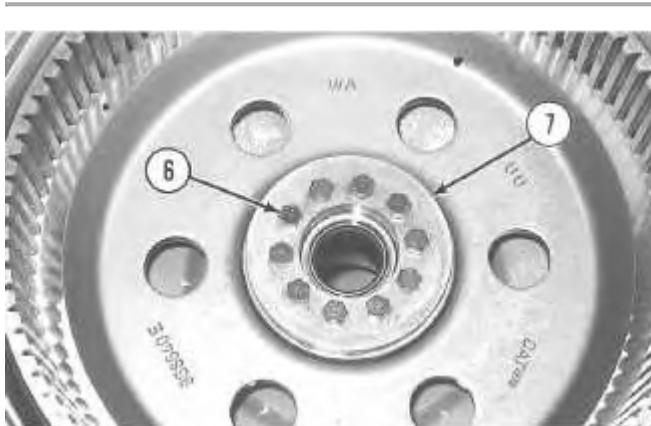


Illustration 4

g00841092

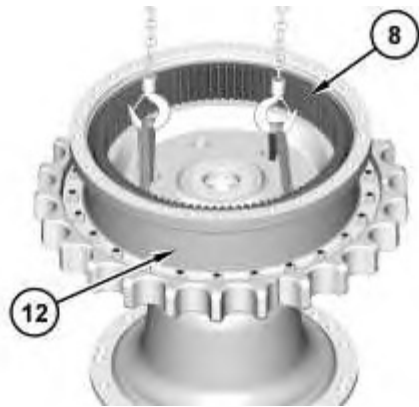


Illustration 5

g01195913

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

g01195915

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) .
-

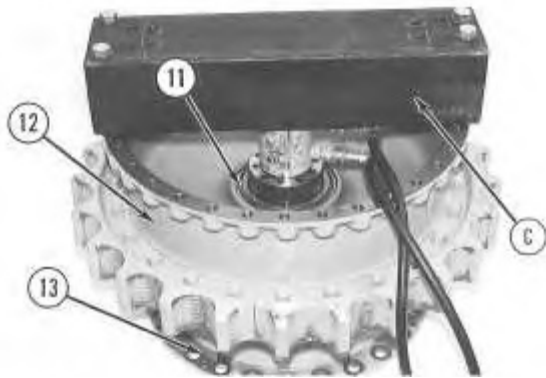


Illustration 7

g00841095

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) .



Illustration 8

g01195917

14. Attach 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).
-

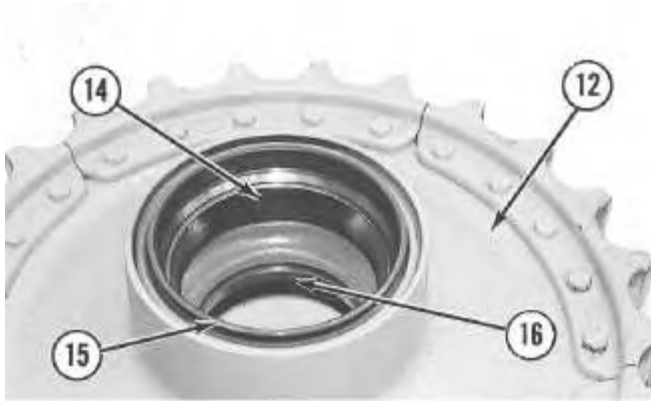


Illustration 9

g00841099

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

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

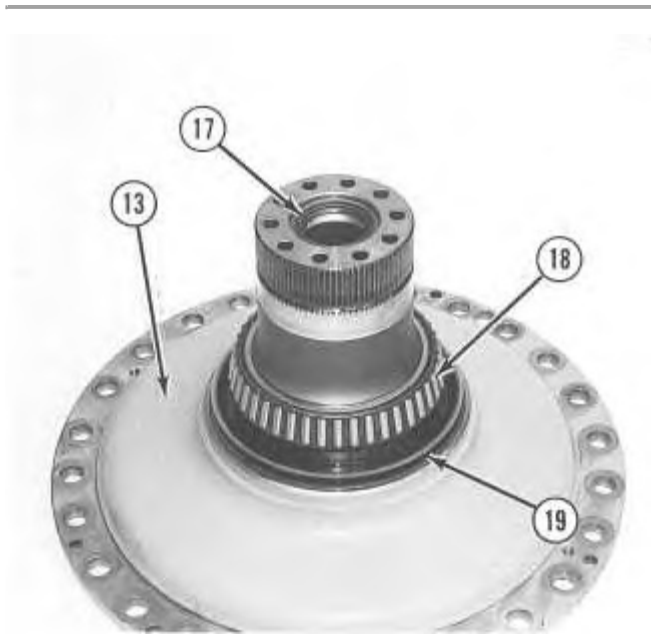


Illustration 10

g00841101

- 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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