

Product: TRACK-TYPE TRACTOR

Model: D5M TRACK-TYPE TRACTOR 7LR

Configuration: MODEL PA55 WITH ELECTRONIC CONTROLS FOR D5M & D6M PS TRACTOR 7LR00001-UP (MACHINE)

Disassembly and Assembly

D5M Track-Type Tractor

Power Train

Media Number -SEN8487-02

Publication Date -01/01/2004

Date Updated -22/01/2004

i00960320

Final Drive - Disassemble

SMCS - 4050-015

Disassembly Procedure

Table 1

Required Tools	A	B	C
138-7573 Link Bracket	3		
FT-1934 Beam		1	
Bolt (16 mm x 190.5 mm)		4	
5P-8247 Hard Washer		4	
6V-3170 Double Acting Cylinder		1	
9U-6600 Hand Hydraulic Pump		1	
1P-0521 Driver Group		1	
138-7575 Link Bracket			2

Start By:

- A. Remove the final drives. Refer to Disassembly and Assembly, "Final Drive - Remove" for the machine that is being serviced.
-

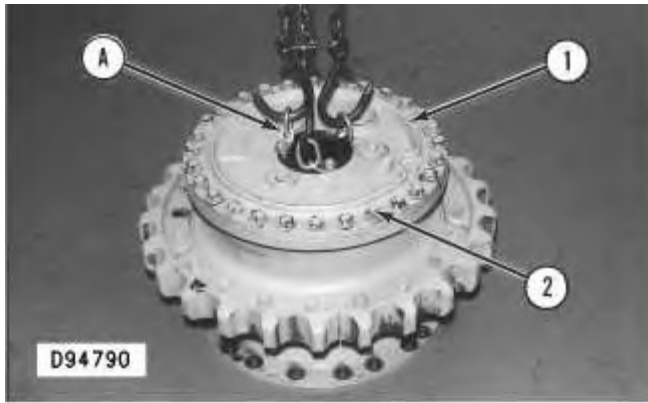


Illustration 1

g00558491

1. Fasten a hoist and Tooling (A) to carrier (1). Remove bolts (2) and remove the carrier. The weight of the carrier is 41 kg (90.0 lb).

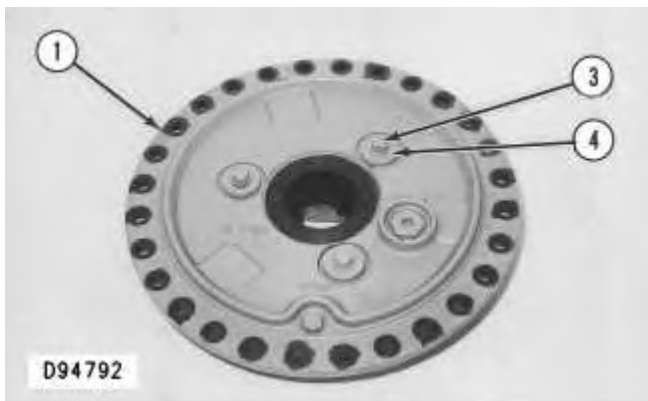


Illustration 2

g00558493

2. Remove bolts (3) and plates (4) from carrier (1) .

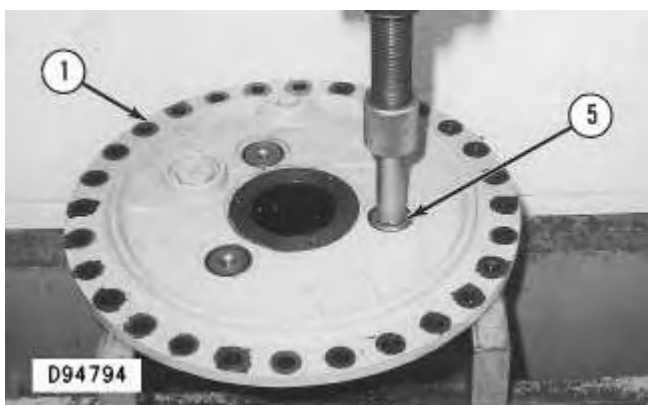


Illustration 3

g00558494

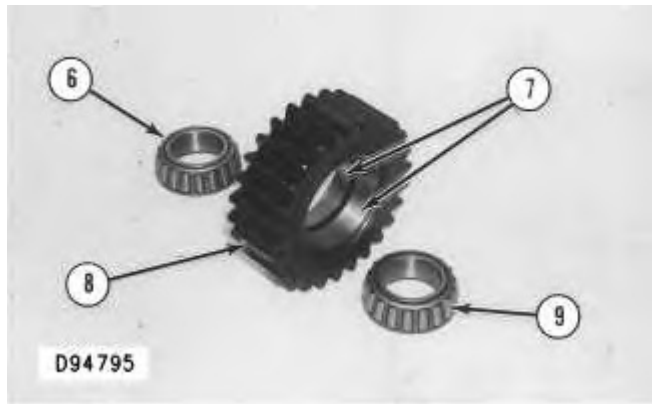


Illustration 4

g00558495

3. Use a press and push shaft (5) out of carrier (1) .
4. Remove gear (8). Remove bearing cones (6) and (9) from the carrier.
5. If necessary, remove bearing cups (7) from gear (8) .



Illustration 5

g00558496

6. Remove bolts (10) and retainer (11) from the spindle.
-

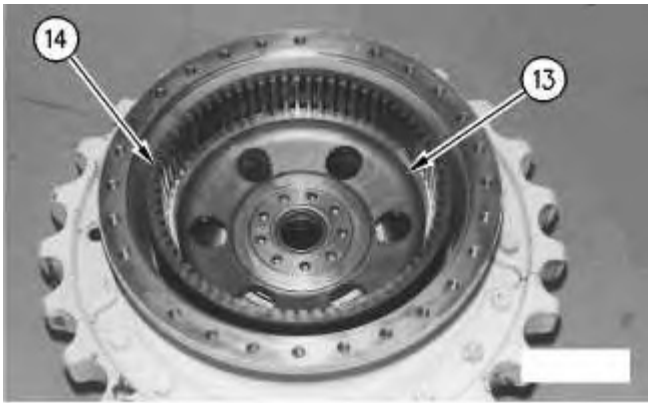


Illustration 6

g00558498

7. Remove hub (13) and gear (14) from the final drive as an assembly.



Illustration 7

g00558499

8. Remove ring (15) and hub (13) from gear (14) .

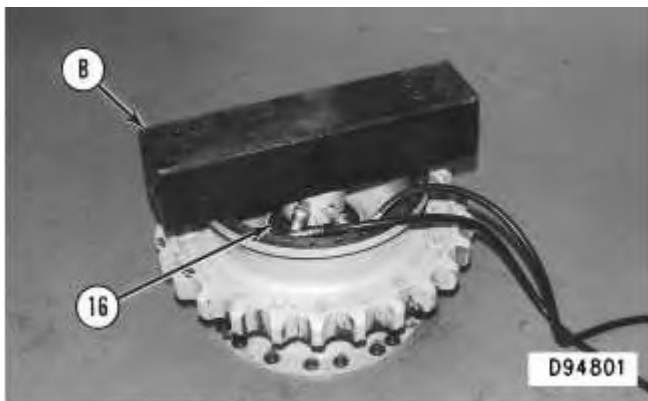


Illustration 8

g00558501

Note: Do not lift the hub so that the hub makes contact with the fittings that are on the hydraulic cylinder. Damage to the fittings could occur.

9. Heat bearing cone (16) to a maximum temperature of 120°C (248.0°F). Use Tooling (B) in order to remove bearing cone (16) from the spindle.
10. Remove Tooling (B) and bearing cone (16) .

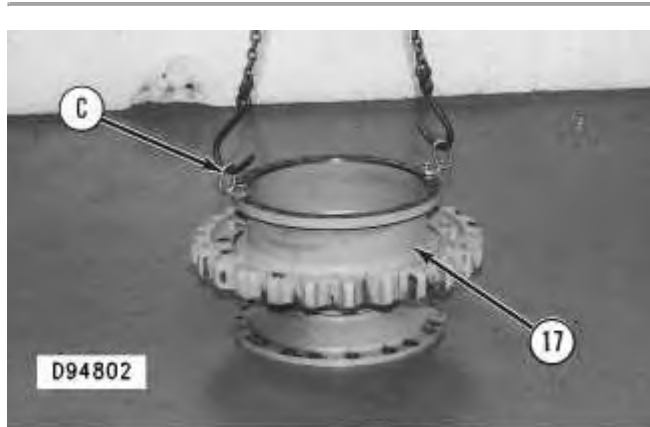


Illustration 9

g00558502

11. Fasten a hoist and Tooling (C) to hub (17). Remove the hub from the spindle.

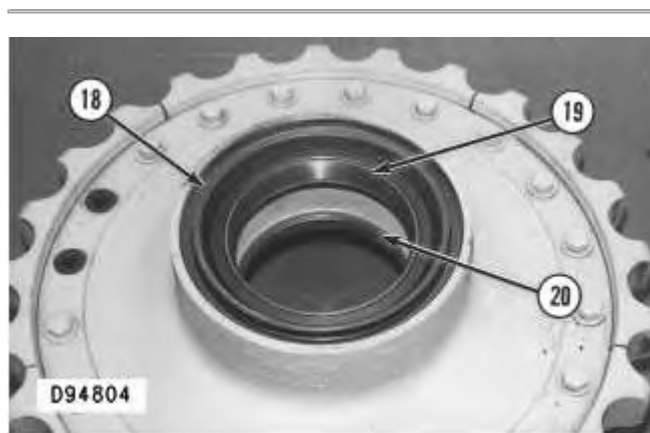


Illustration 10

g00558506

12. Remove Duo-cone seal kit (18) from the hub.
 13. If necessary, remove bearing cups (19) and (20) from the hub.
-

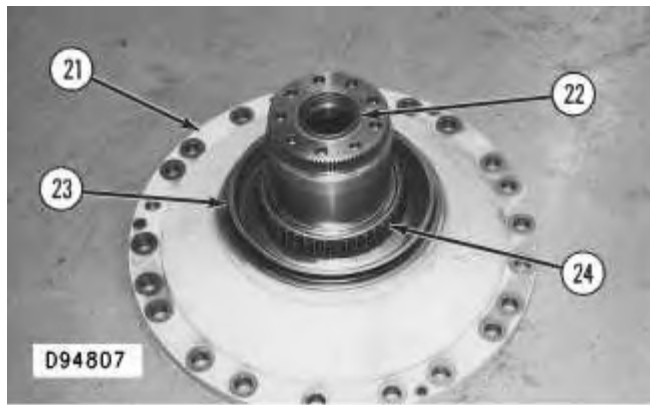


Illustration 11

g00558507

14. Remove Duo-cone seal kit (23) from spindle (21) .
 15. Remove seal (22) from the spindle.
 16. If necessary, remove bearing cone (24) from spindle (21) .
-

Product: TRACK-TYPE TRACTOR

Model: D5M TRACK-TYPE TRACTOR 7LR

Configuration: MODEL PA55 WITH ELECTRONIC CONTROLS FOR D5M & D6M PS TRACTOR 7LR00001-UP (MACHINE)

Disassembly and Assembly D5M Track-Type Tractor Power Train

Media Number -SEN8487-02

Publication Date -01/01/2004

Date Updated -22/01/2004

i00960318

Final Drive - Assemble

SMCS - 4050-016

Assembly Procedure

Table 1

Required Tools	A	B	C	D	E
1P-0520 Driver Group	1				
8M-9395 Seal Installer		1			
138-7575 Link Bracket			2		
8T-3225 Spacer				1	
138-7573 Link Bracket					3

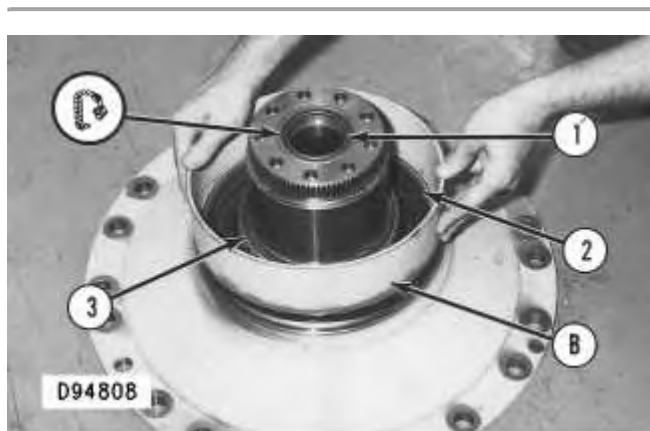


Illustration 1

g00558510

1. Use Tooling (A) in order to install seal (1) in the hub. Install the seal with the lip downward, as shown.
2. If bearing (3) was removed, heat the bearing cone to a maximum temperature of 120°C (248°F). Install the bearing cone on the spindle.

Note: Before installing any of the Duo-Cone seal kits, see Disassembly and Assembly, "Duo-Cone Conventional Seals - Install".

3. Use Tooling (B) in order to install Duo-Cone seal kit (2) on the spindle.

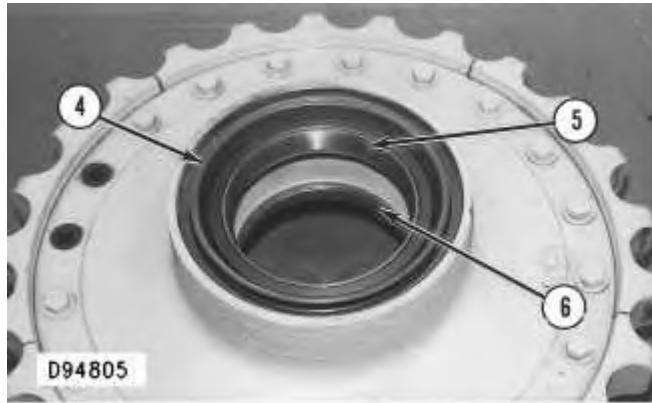


Illustration 2

g00558523

4. If bearing cups (5) and (6) were removed from the hub, lower the temperature of the bearing cups and install the cups in the hub.
5. Use Tooling (B) in order to install Duo-Cone seal kit (4) in the hub.

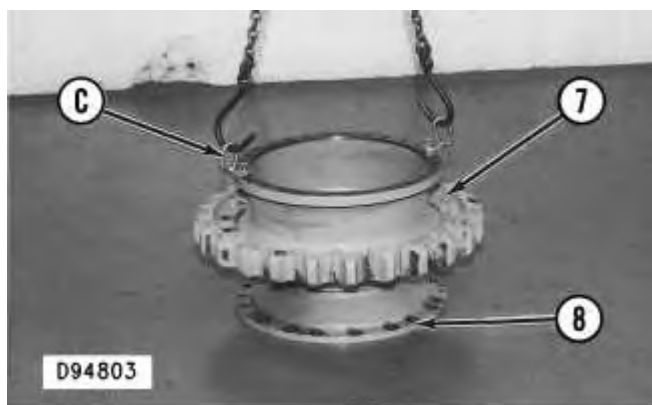


Illustration 3

g00558544

6. Fasten a hoist and Tooling (C) to hub (7). Lower the hub into position on spindle (8) .
-



Illustration 4

g00558546

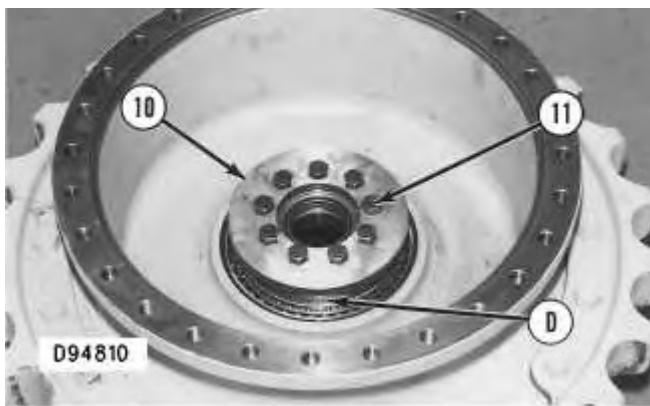
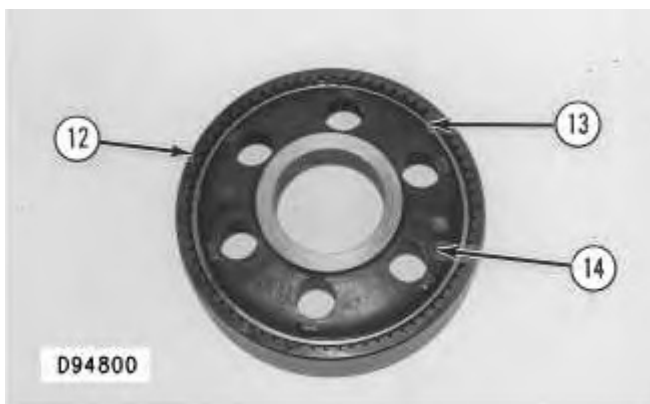


Illustration 5

g00558548

7. Heat bearing cone (9) to a maximum temperature of 120°C (248°F) and install the bearing cone on the spindle.
8. While bearing cone (9) is still hot, put Tooling (D) into position. Install retainer (10) and bolts (11). Tighten the bolts to a torque of $135 \pm 15 \text{ N}\cdot\text{m}$ ($100.0 \pm 11 \text{ lb ft}$).
9. After the bearing has cooled, remove the retainer and Tooling (D) .



- Put hub (14) into position in gear (12) and install ring (13) .

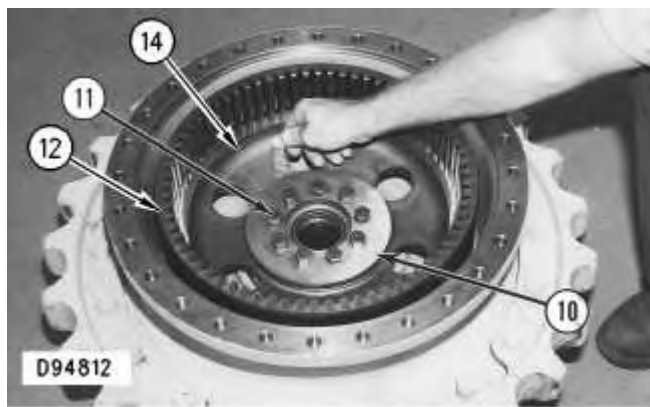


Illustration 7

- Put hub (14) and gear (12) into position on the spindle as an assembly.
- Install retainer (10) and bolt (11). Tighten the bolts to a torque of $135 \pm 15 \text{ N}\cdot\text{m}$ ($100 \pm 11 \text{ lb ft}$).
- Use a feeler gauge in order to verify that there is metal to metal contact between retainer (10) and the spindle.

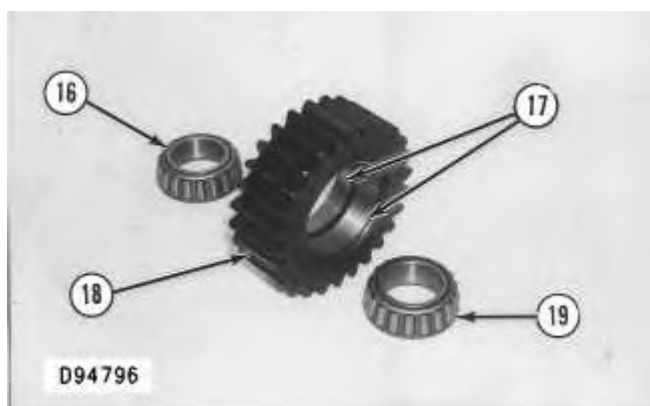


Illustration 8



Illustration 9

g00558559

14. If bearing cups (17) were removed from gear (18), lower the temperature of the bearing cups and install the cups in gear (18) .
15. Put bearing cones (16) and (19) into position in gear (18) .
16. Put the bearing cones and gear (18) into position in carrier (20). Lower the temperature of shaft (21). Use a press and install shaft (21) in the carrier. Install the shaft until the end of the shaft is even with the outer surface of the carrier.

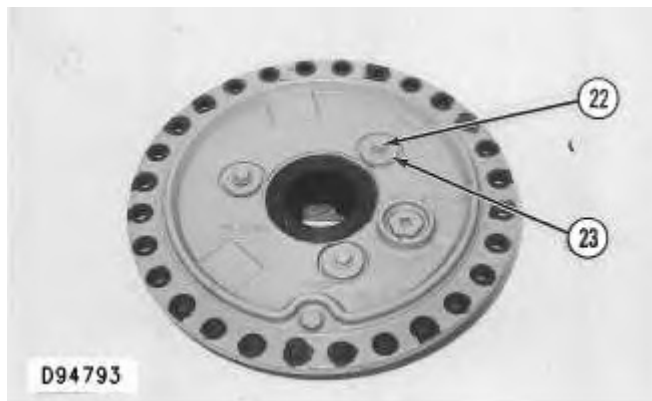


Illustration 10

g00558560

17. Install plates (23) and bolts (22). Verify that there is metal to metal contact between plates (23) and the shafts.

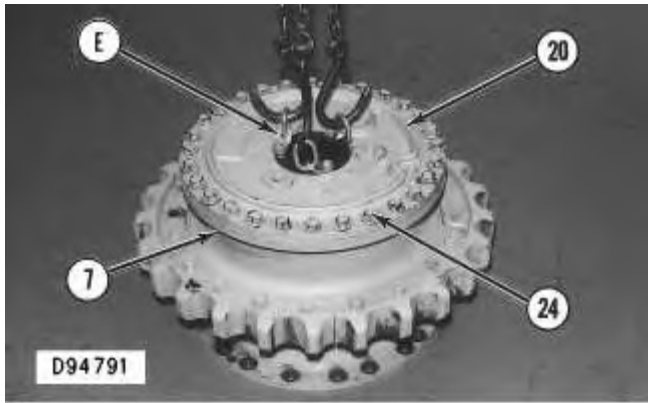


Illustration 11

g00558563

18. Fasten a hoist and Tooling (E) to carrier (20). Put the carrier into position in hub (7) and install bolts (24) .

End By: Install the final drives. Refer to Disassembly and Assembly, "Final Drive - Install" for the machine that is being serviced.

Product: TRACK-TYPE TRACTOR

Model: D5M TRACK-TYPE TRACTOR 7LR

Configuration: MODEL PA55 WITH ELECTRONIC CONTROLS FOR D5M & D6M PS TRACTOR 7LR00001-UP (MACHINE)

Disassembly and Assembly

D5M Track-Type Tractor

Power Train

Media Number -SEN8487-02

Publication Date -01/01/2004

Date Updated -22/01/2004

i00960322

Final Drive - Install

SMCS - 4050-012

Installation Procedure

Table 1

Required Tools	A	B
8T-3207 Lifting Bracket	1	
5P-8622 Shackle	1	
Bolt (20 mm x 133 mm Long)	2	
9S-9076 Spacer	2	
1P-3533 Carrier Bar		1

1. Install the O-ring seal on the steering clutch and the brake housing. Put clean oil on the O-ring seal.

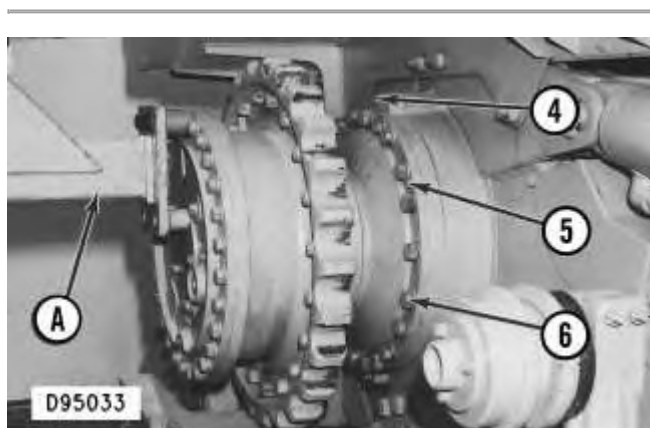


Illustration 1

g00558490

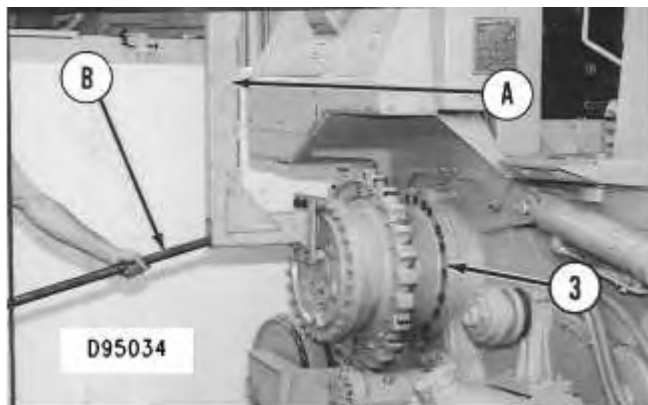


Illustration 2

g00558488

2. Fasten a hoist and Tooling (A) to final drive (3). Use Tooling (B) in order to balance the final drive. Put the final drive (3) in position on the steering clutch and the brake housing. Install bolts (5) and (6) .

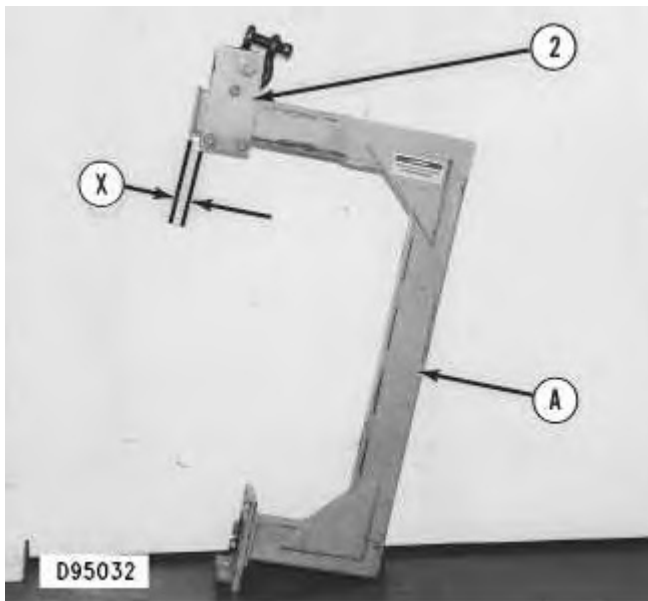


Illustration 3

g00558484

3. Remove Tooling (A) from the final drive.
-

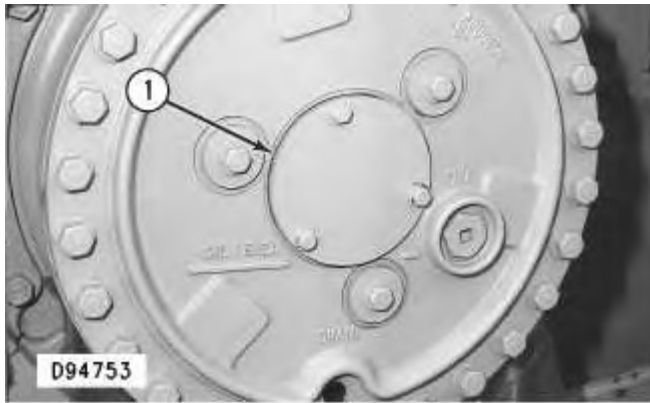


Illustration 4

g00558352

4. Remove the three bolts and cover (1) .

End By:

- a. Install the axles. Refer to Disassembly and Assembly, "Axle - Remove and Install" for the machine that is being serviced.
 - b. Connect the tracks. Refer to Disassembly and Assembly, "Track - Connect" for the machine that is being serviced.
-

Product: TRACK-TYPE TRACTOR

Model: D5M TRACK-TYPE TRACTOR 7LR

Configuration: MODEL PA55 WITH ELECTRONIC CONTROLS FOR D5M & D6M PS TRACTOR 7LR00001-UP (MACHINE)

Disassembly and Assembly

D5M Track-Type Tractor

Power Train

Media Number -SEN8487-02

Publication Date -01/01/2004

Date Updated -22/01/2004

i00960735

Steering Clutch and Brake - Disassemble

SMCS - 4100-015

Disassembly Procedure

Table 1

Required Tools	A
138-7575 Link Bracket	3

Start By:

- A. Separate the final drive, steering clutches and brakes. Refer to Disassembly and Assembly, "Final Drive, Steering Clutch and Brake - Separate" for the machine that is being serviced.

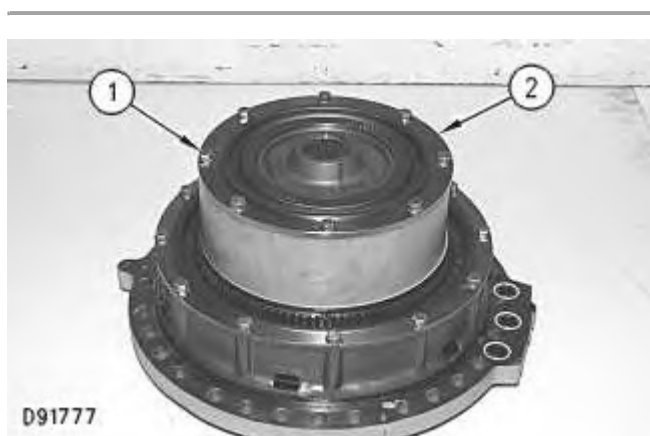


Illustration 1

g00558564

1. Remove bolts (1) and (2) .

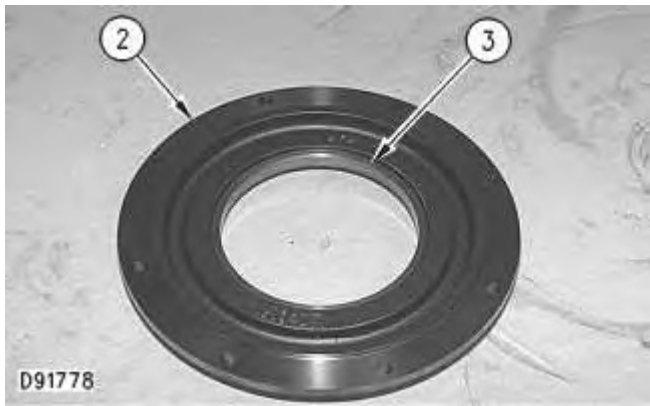


Illustration 2

g00558708

2. Remove sleeve bearings (3) from plate (2) .

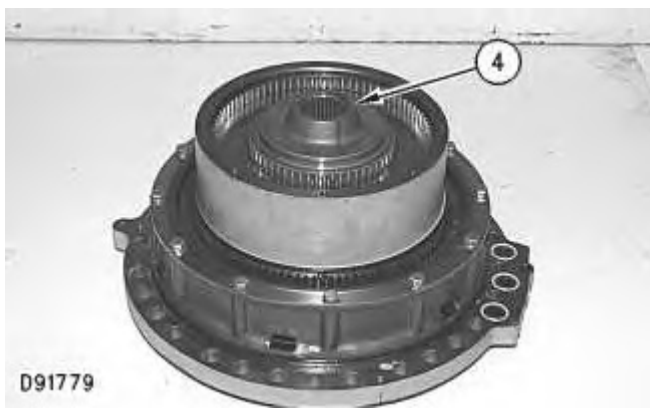
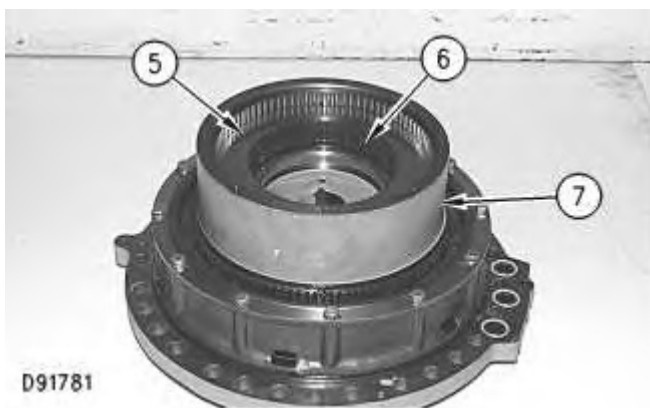


Illustration 3

g00558709

3. Remove input hub (4) .



4. Remove clutch plates (5) and friction discs (6) from hub assembly (7) .

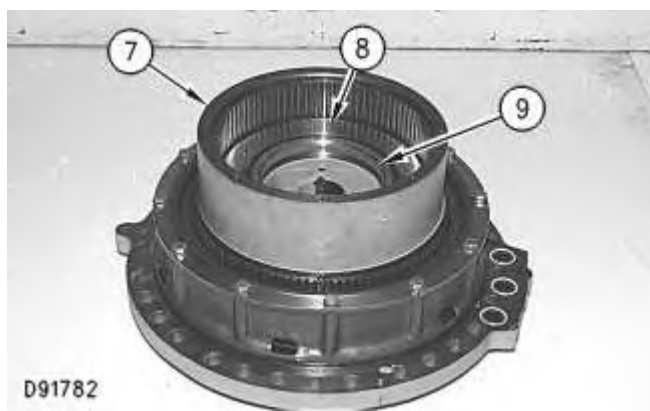


Illustration 5

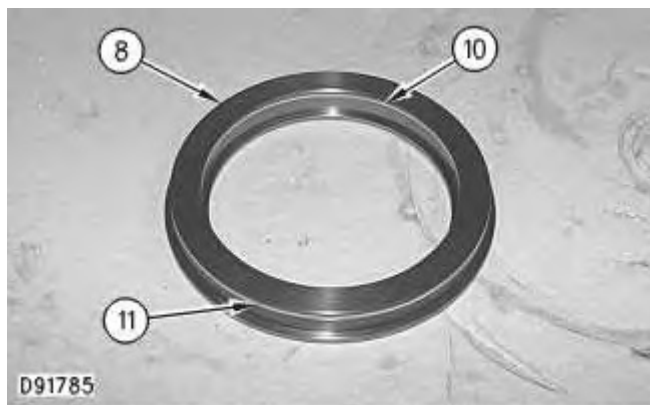


Illustration 6

5. Remove piston (8) from hub assembly (7) .
 6. Remove sleeve bearing (9) .
 7. Remove seals (10) and (11) from piston (8) .
-

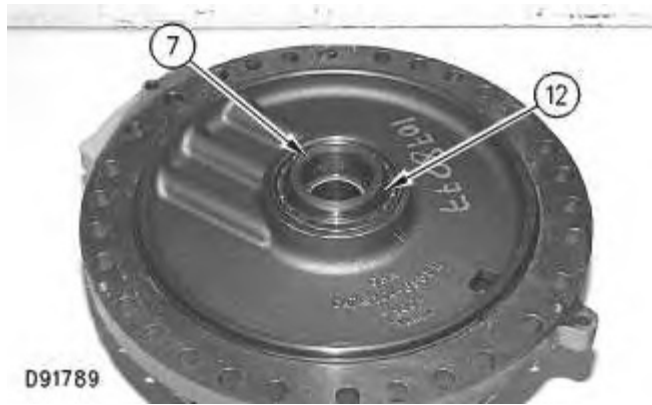


Illustration 7

g00558717

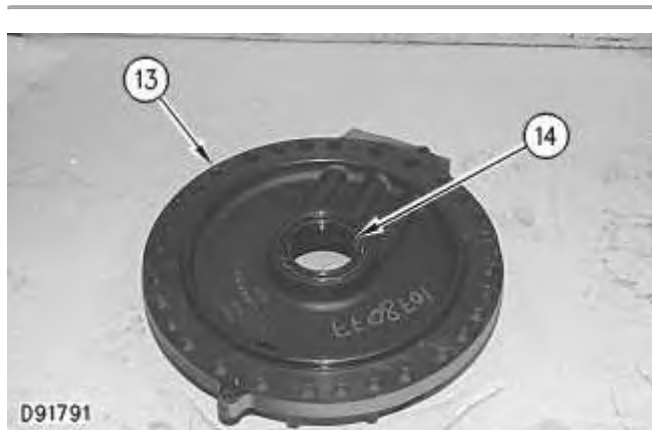
8. Turn over the brake assembly.
9. Remove ring (12) from hub assembly (7) .



Illustration 8

g00558719

10. Fasten a hoist and Tooling (A) to housing (13). Remove the brake assembly from hub assembly (7). The weight of the brake assembly is 86 kg (190 lb).



11. Remove bearing (14) from housing (13) .



Illustration 10

12. Remove three rings (15) from hub assembly (7) .
13. Remove bearing (16) from the hub assembly.

! WARNING

Personal injury can result from parts under high spring pressure.

Spring force can cause parts to come off suddenly. Contact your Caterpillar dealer for disassembly instructions before removing any parts.

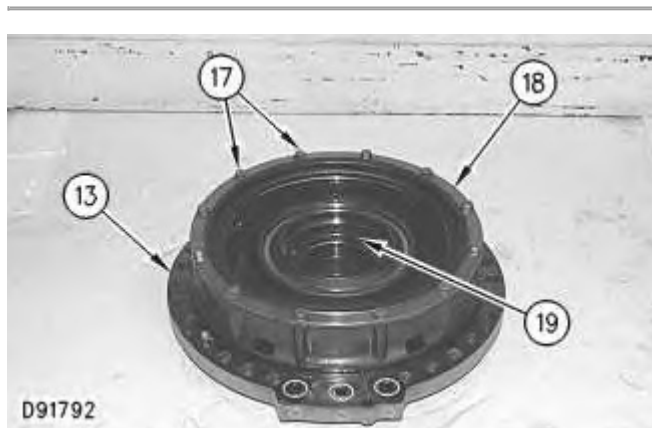


Illustration 11

Note: Make sure that you remove bolts (17) before you remove bolts (19). Bolts (19) hold a spring that is under compression.

14. Remove bolts (17) and plate (18) from housing (13) .

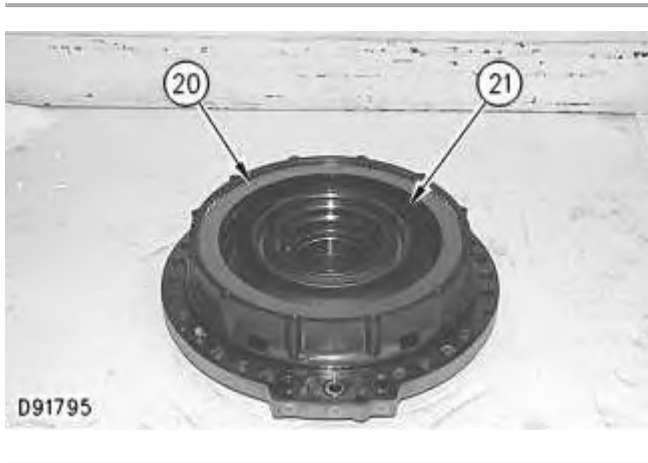


Illustration 12

g00558724

15. Remove brake plates (20) and friction discs (21) from the housing.

 **WARNING**

Personal injury can result from parts under high spring pressure.

Spring force can cause parts to come off suddenly. Contact your Caterpillar dealer for disassembly instructions before removing any parts.

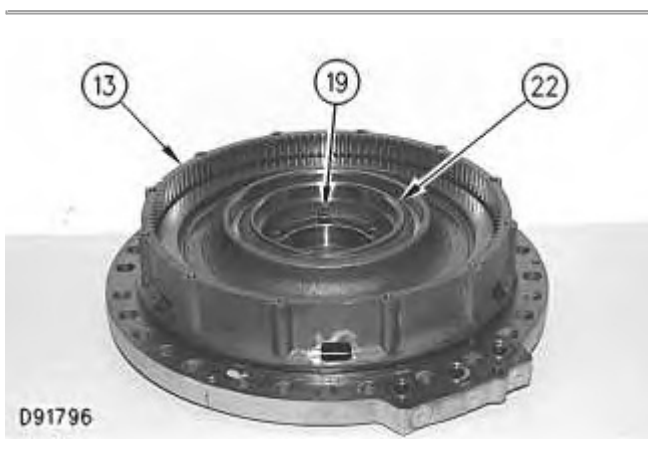


Illustration 13

g00558725

Note: Make sure that you slowly loosen and evenly loosen bolts (19) .

16. Remove bolts (19) and manifold assembly (22) from housing (13) .

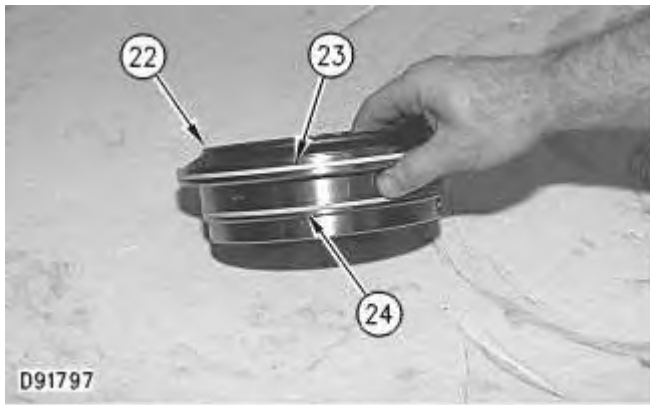


Illustration 14

g00558726

17. Remove seals (23) and (24) from manifold assembly (22) .

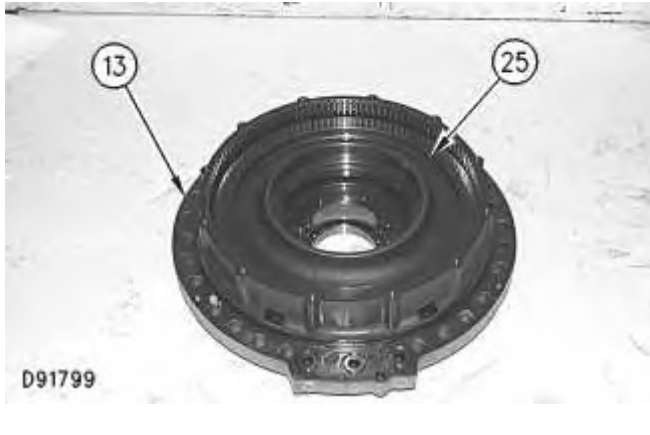
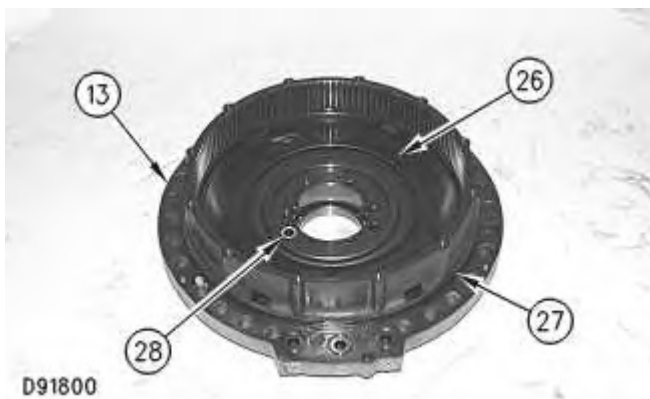


Illustration 15

g00558727

18. Remove piston (25) from housing (13) .



19. Remove springs (26) from housing (13) .

Note: Note the direction of spring (26) before removing.

20. Remove O-ring seals (27) and (28) .

Product: TRACK-TYPE TRACTOR

Model: D5M TRACK-TYPE TRACTOR 7LR

Configuration: MODEL PA55 WITH ELECTRONIC CONTROLS FOR D5M & D6M PS TRACTOR 7LR00001-UP (MACHINE)

Disassembly and Assembly

D5M Track-Type Tractor

Power Train

Media Number -SEN8487-02

Publication Date -01/01/2004

Date Updated -22/01/2004

i00960734

Steering Clutch and Brake - Assemble

SMCS - 4100-016

Assembly Procedure

Table 1

Required Tools	A	B
138-7575 Link Bracket	3	
1P-0510 Driver Group		1

1. Clean all parts. Inspect all parts for wear or damage. Replace all parts that are damaged or worn.

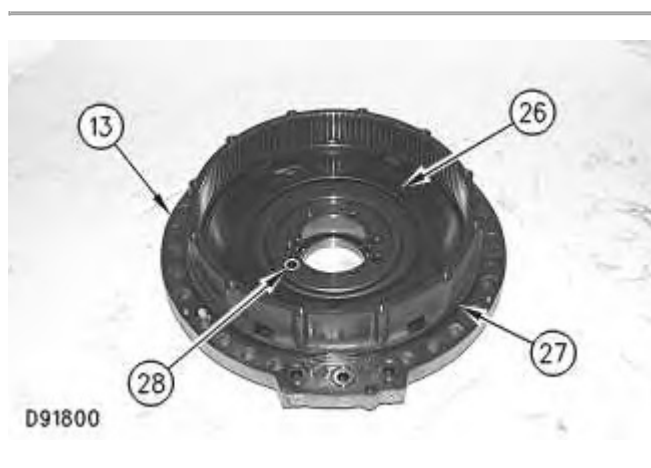


Illustration 1

g00558728

2. Install springs (26) in housing (13) .

3. Install O-ring seals (27) and (28) .

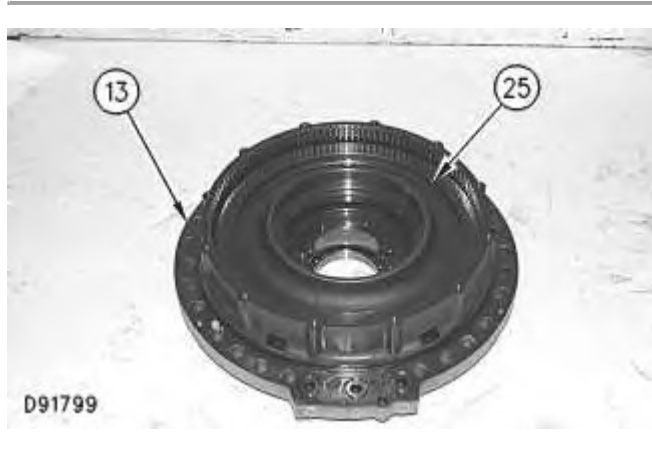


Illustration 2

g00558727

4. Put piston (25) into position in housing (13) .

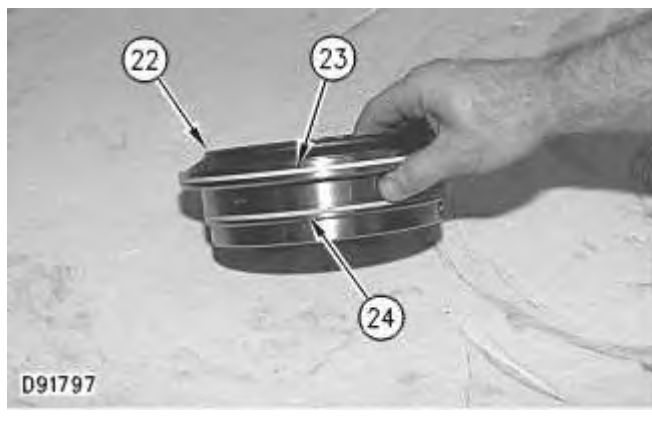


Illustration 3

g00558726

5. Install seals (23) and (24) on manifold assembly (22). Install the seals on the manifold assembly, as shown. Put clean oil on the lip of the seals.
-

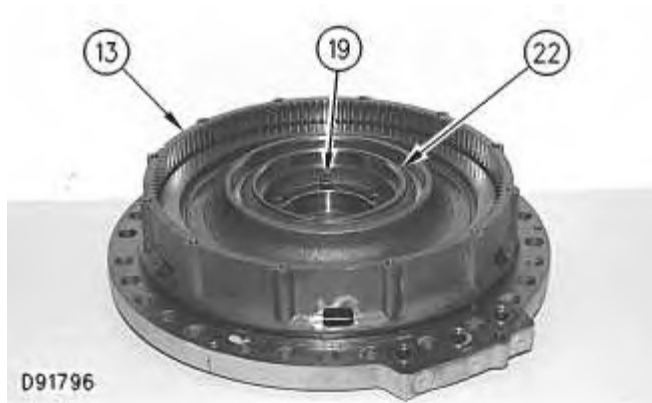


Illustration 4

g00558725

6. Align the oil holes in manifold assembly (22) with the holes in housing (13). Install the manifold assembly and bolts (19) .



Illustration 5

g00675073

Prepare New Seal Rings for Installation by Using This Method.



Illustration 6

g00675075

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com