

Product: TRACK-TYPE TRACTOR

Model: D5N TRACK-TYPE TRACTOR CFH

Configuration: D5N TRACK-TYPE TRACTOR /XL, LGP, POWER SHIFT/ CFH00001-UP (MACHINE) POWERED BY 3126B ENGINE

Disassembly and Assembly D5N Track-Type Tractor Power Train

Media Number -REN5287-04

Publication Date -01/01/2009

Date Updated -07/01/2009

i01870612

Steering Clutch and Brake - Disassemble

SMCS - 4100-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	3

Start By:

- A. Separate the final drive, the steering clutch, and the brake. Refer to Disassembly and Assembly, "Final Drive, Steering Clutch, and Brake - Separate".

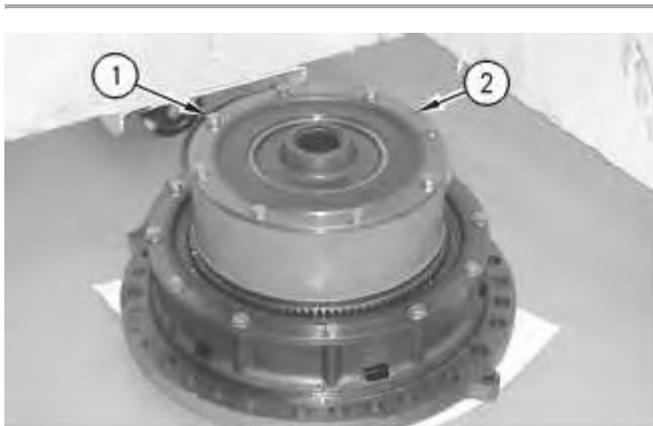


Illustration 1

g00952255

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

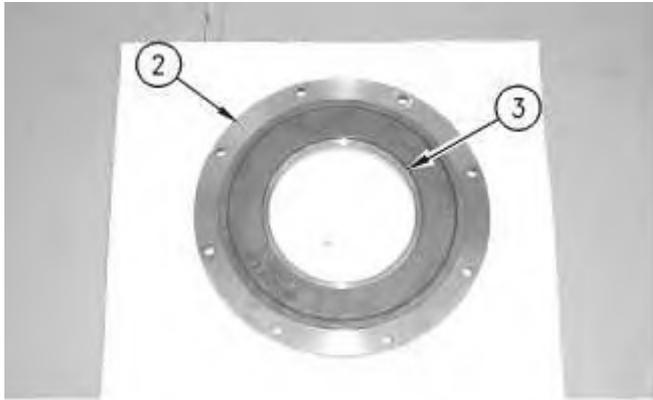


Illustration 2

g00952257

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

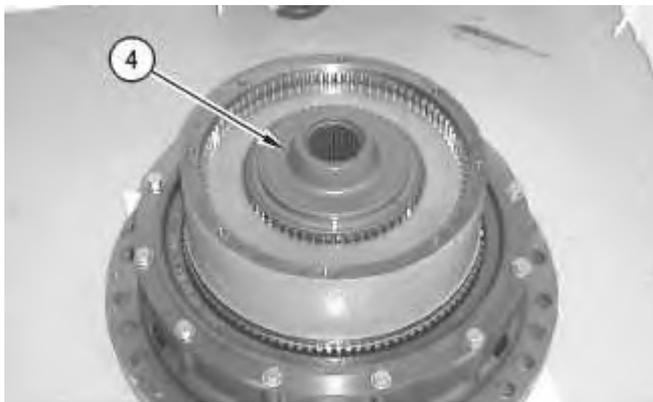
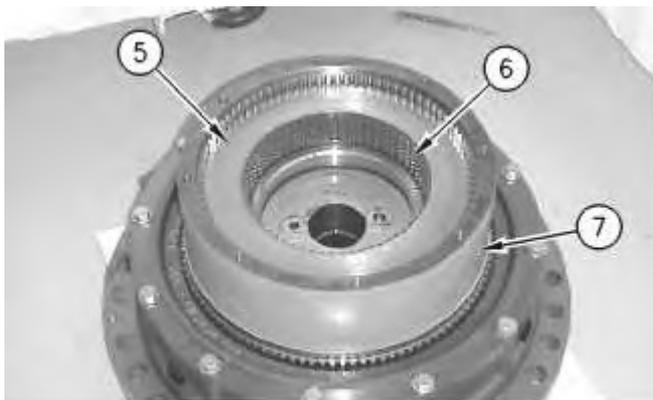


Illustration 3

g00952259

3. Remove input hub (4) .



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

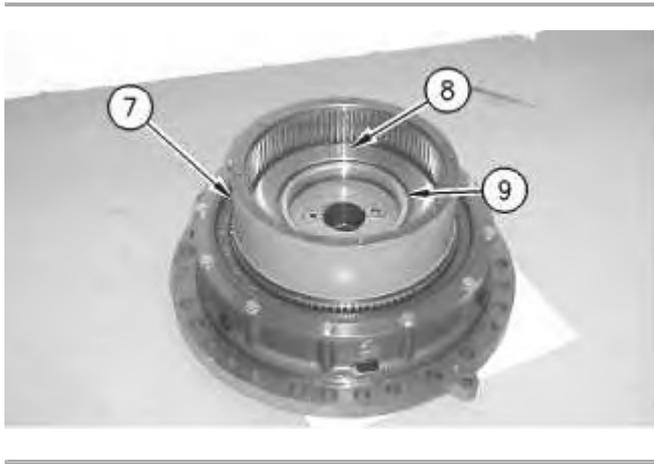


Illustration 5

5. Remove piston (8) and sleeve bearing (9) from hub assembly (7) .

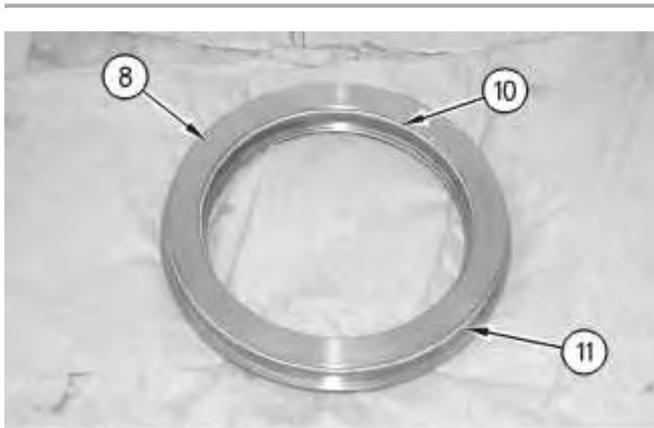


Illustration 6

6. Remove seals (10) and (11) from piston (8) .
-

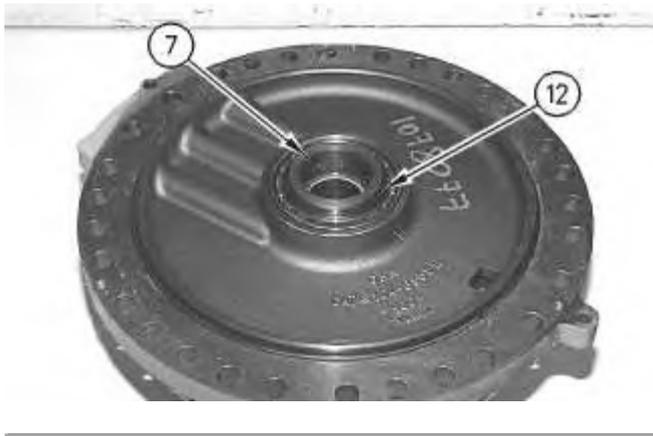


Illustration 7

g00952507

7. Turn over the hub and brake assembly. The weight of the hub and brake assembly is approximately 127 kg (280 lb).
8. Remove ring (12) from hub assembly (7) .



Illustration 8

g00952508

9. 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).



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

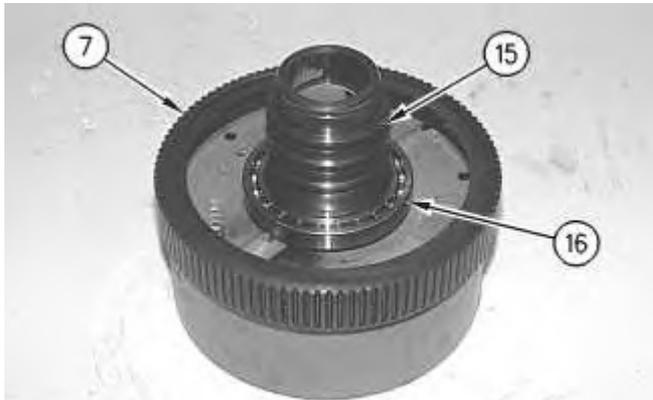


Illustration 10

11. Remove three rings (15) from hub assembly (7) .
12. 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.

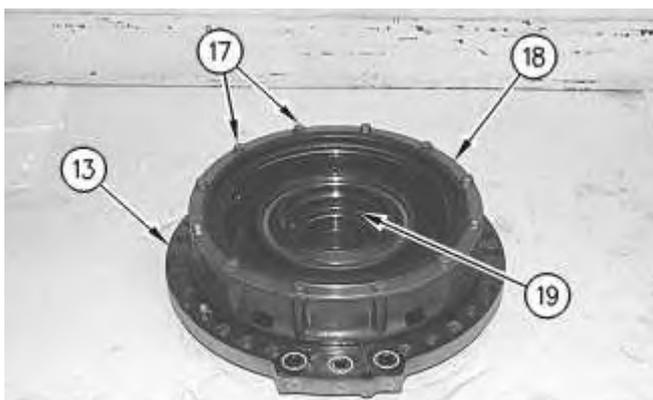


Illustration 11

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

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

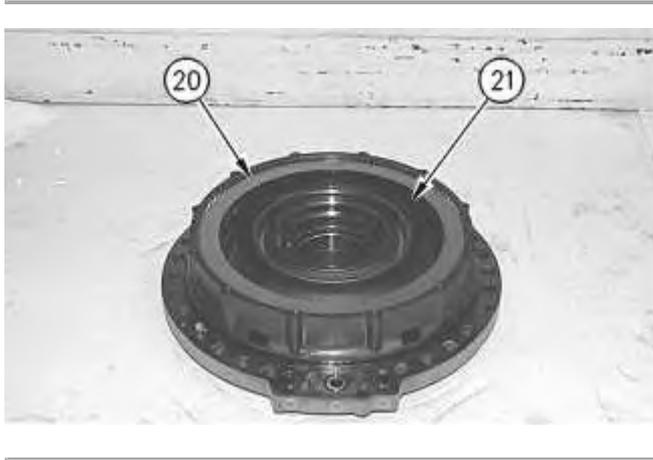


Illustration 12

g00952523

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

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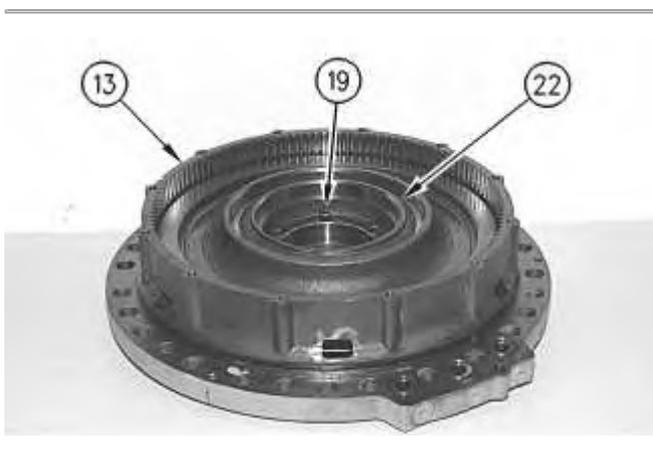


Illustration 13

g00952533

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

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

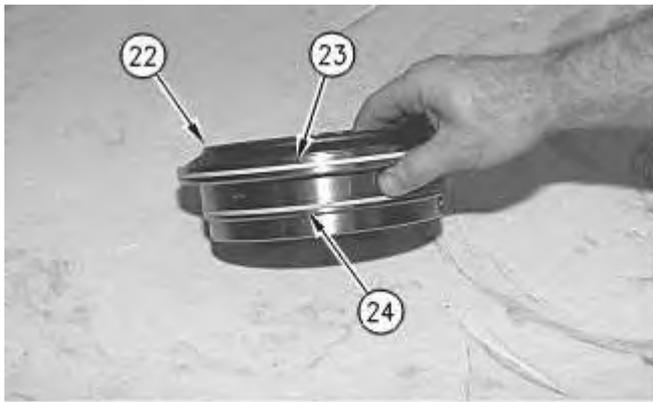


Illustration 14

g00952535

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

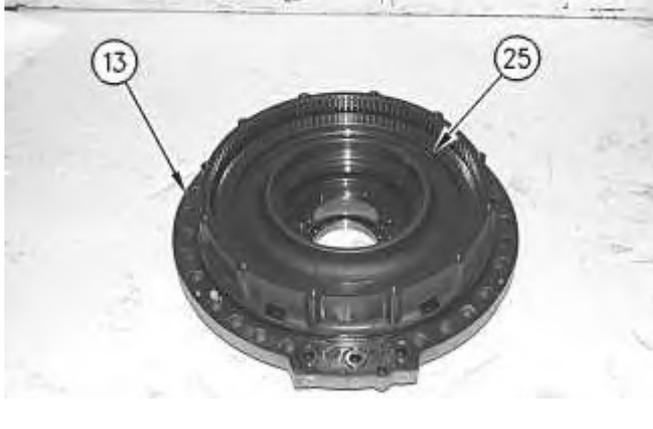
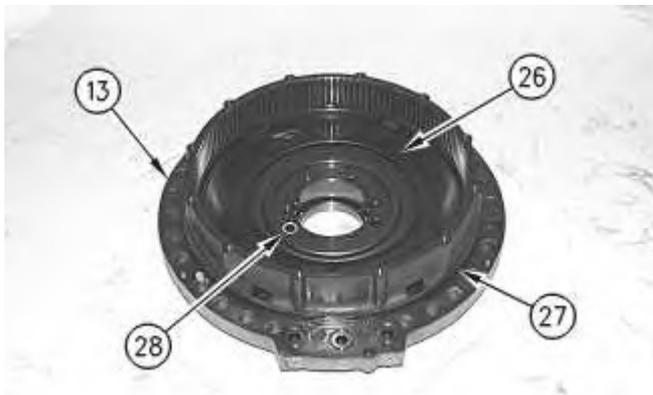


Illustration 15

g00952538

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



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

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

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

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Disassembly and Assembly D5N Track-Type Tractor Power Train

Media Number -REN5287-04

Publication Date -01/01/2009

Date Updated -07/01/2009

i01870622

Steering Clutch and Brake - Assemble

SMCS - 4100-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	3
B	1P-0510	Driver Gp	1

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

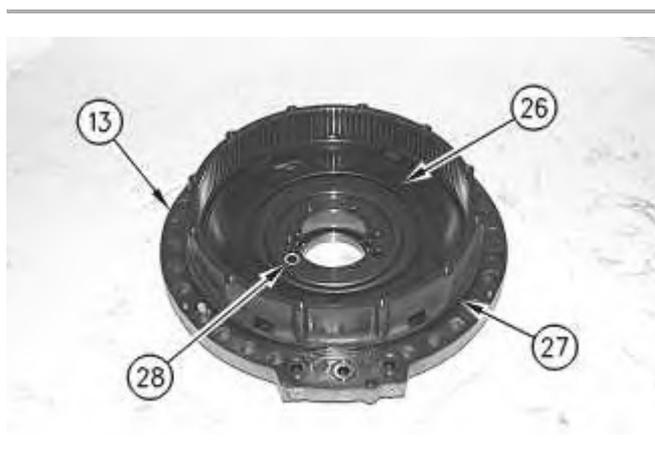


Illustration 1

g00952539

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

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

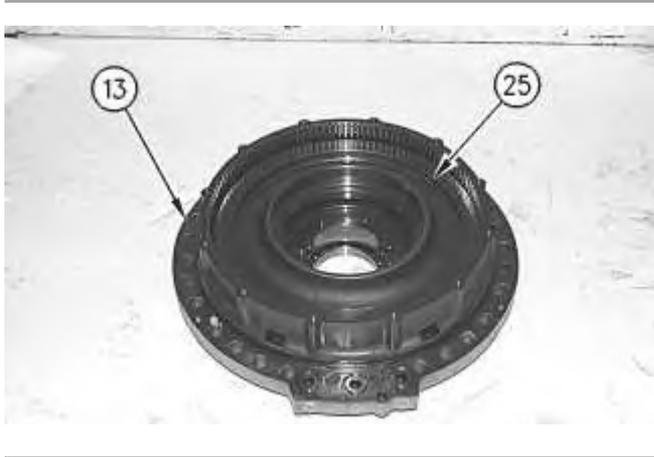


Illustration 2

g00952538

4. Position piston (25) into housing (13) .

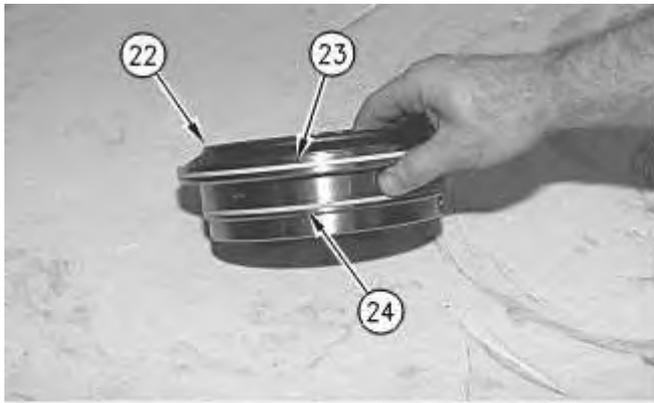


Illustration 3

g00952535

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.
-

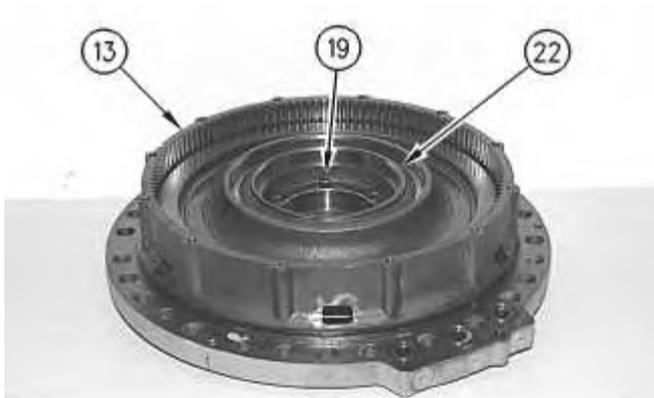


Illustration 4

g00952533

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

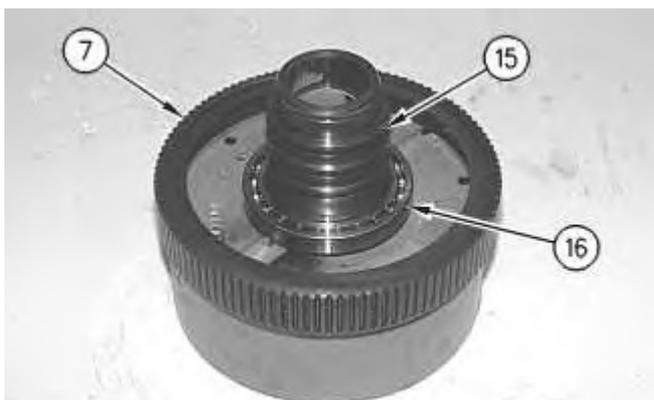


Illustration 5

g00952514

7. Raise the temperature of bearing (16) and install bearing (16) onto hub assembly (7). Bearing (16) must be seated squarely on the hub assembly after bearing (16) has cooled.
8. Install three rings (15) onto hub assembly (7) .



9. Install bearing (14) into housing (13) .

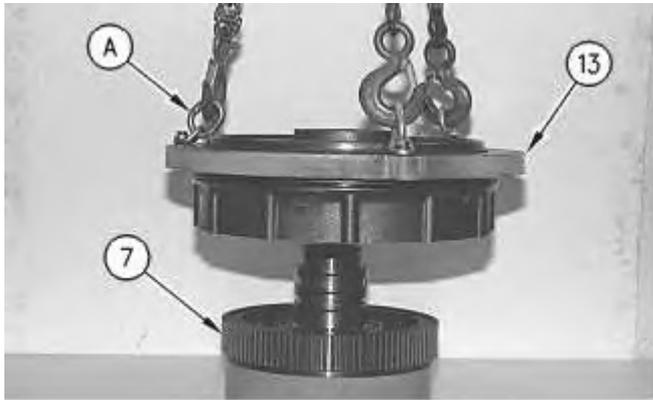


Illustration 7

10. Fasten a hoist and Tooling (A) onto housing (13) and lower the housing into position on hub assembly (7) .

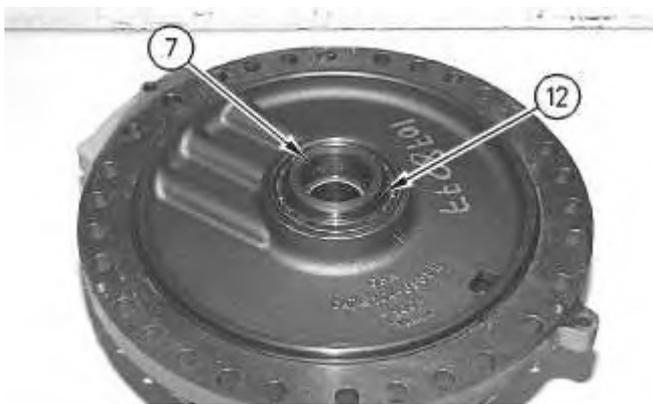


Illustration 8

11. Install ring (12) onto hub assembly (7) .
-

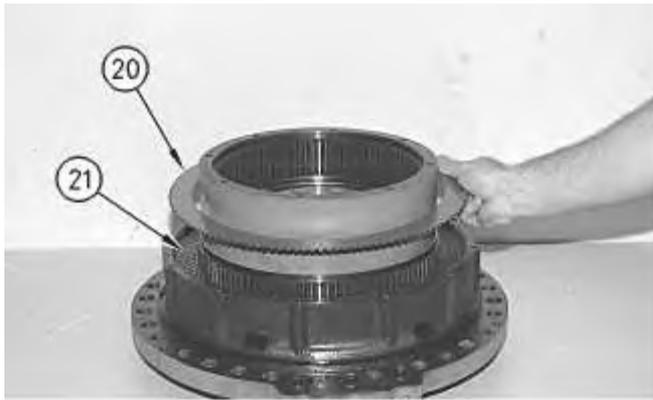


Illustration 9

g00952592

12. Start with a plate and install brake plates (20) and friction discs (21). Alternate the plates and discs.

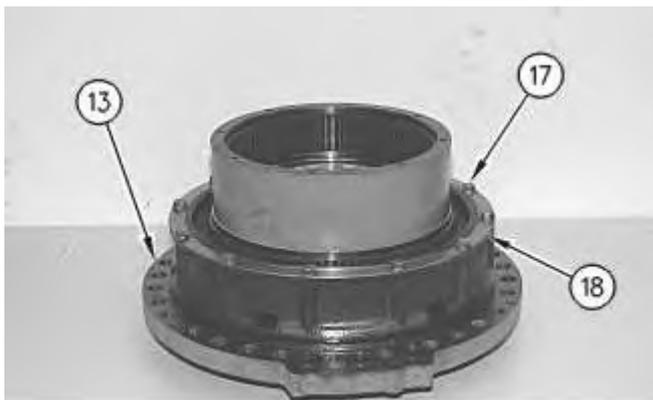


Illustration 10

g00952627

13. Install plate (18) and bolts (17) onto housing (13) .



Illustration 11

g00952629

14. Install sleeve bearing (9) into hub assembly (7) .

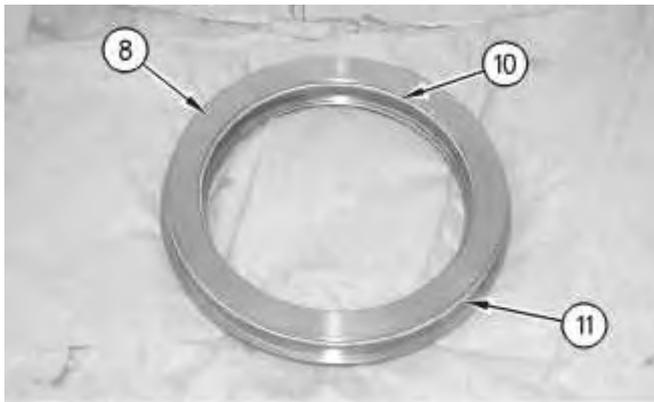


Illustration 12

g00952262

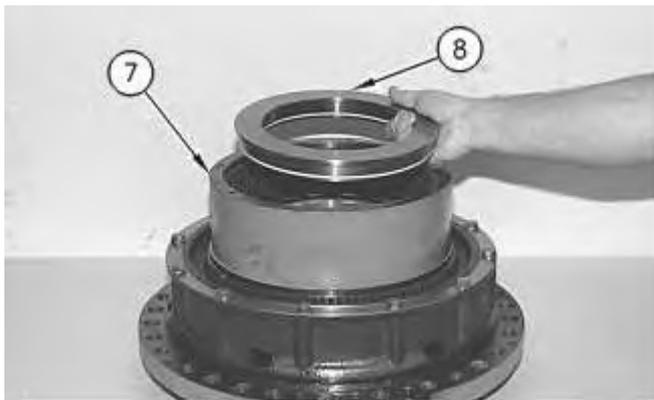
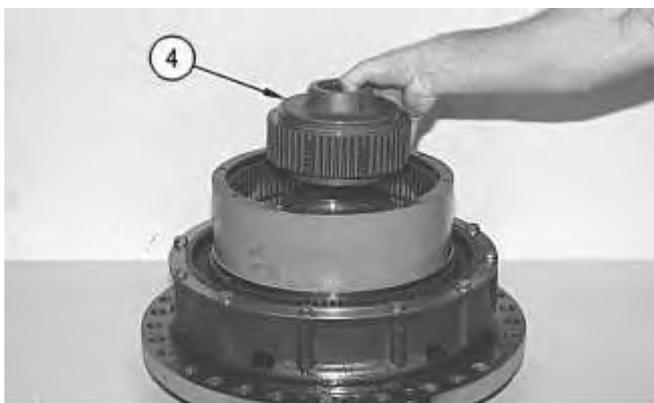


Illustration 13

g00952631

15. Install seals (10) and (11) into piston (8) .

16. Put clean oil on the seals and install piston (8) into hub assembly (7) .



17. Install input hub (4) .

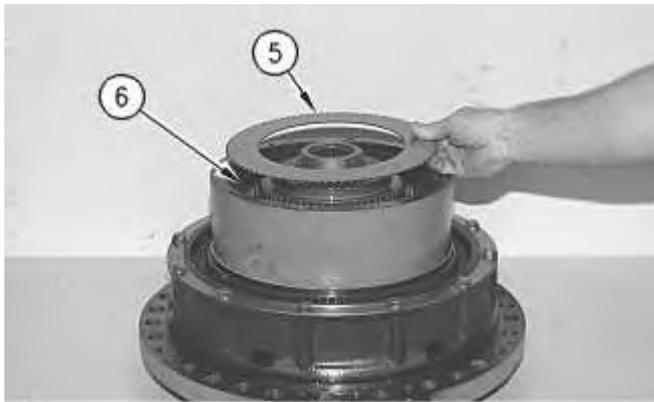


Illustration 15

18. Start with a plate and install clutch plates (5) and friction discs (6) .

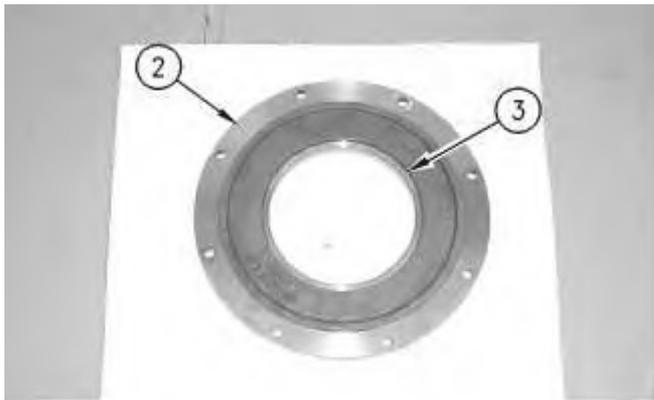
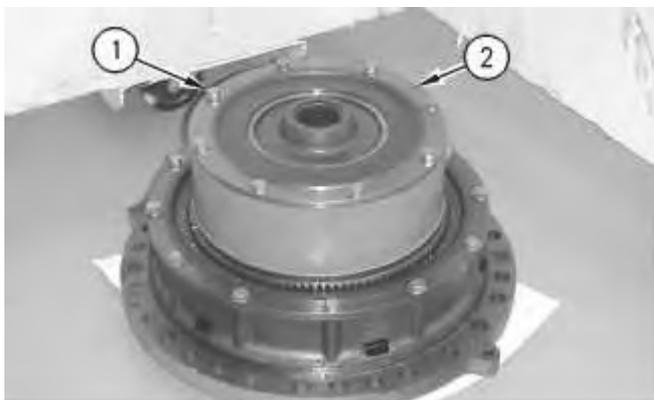


Illustration 16



19. Install sleeve bearing (3) into plate (2) .
20. Position plate (2) onto the housing and install bolts (1) .

End By: Connect the final drive, the steering clutch, and the brake. Refer to Disassembly and Assembly, "Final Drive, Steering Clutch, and Brake - Connect".

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Disassembly and Assembly D5N Track-Type Tractor Power Train

Media Number -REN5287-04

Publication Date -01/01/2009

Date Updated -07/01/2009

i01857903

Main Drive Shaft - Remove and Install

SMCS - 3253-010

Removal Procedure

Start By:

- A. Remove the rear bottom guard. Refer to Disassembly and Assembly, "Bottom Guard - Remove and Install".

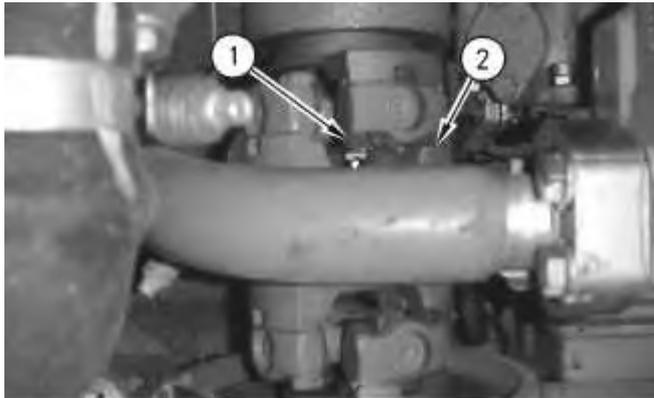


Illustration 1

g00947046

1. Remove four bolts (1) from each end of main drive shaft (2) .
-

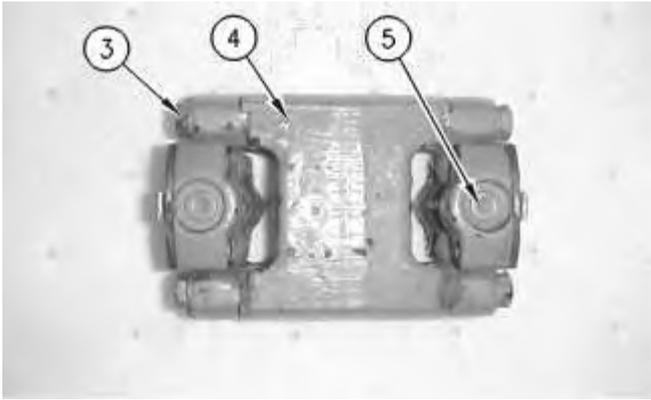


Illustration 2

g00947048

2. Remove bolts (3) .
3. Remove spider (5) from joint (4) .

Installation Procedure

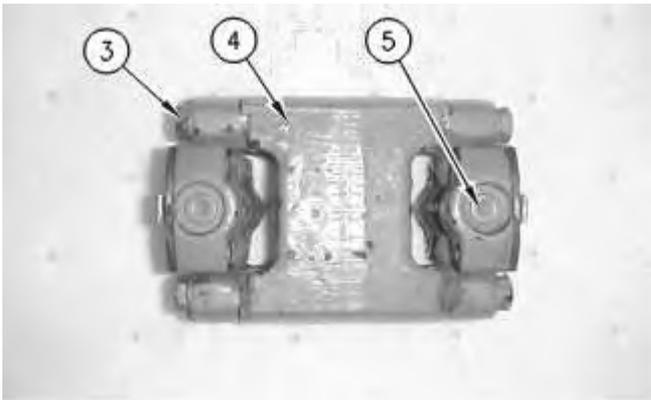


Illustration 3

g00947048

1. Position spider (5) onto joint (4) .
 2. Install bolts (3). Tighten bolts (3) to a torque of 54 ± 9 N·m (40 ± 7 lb ft).
-

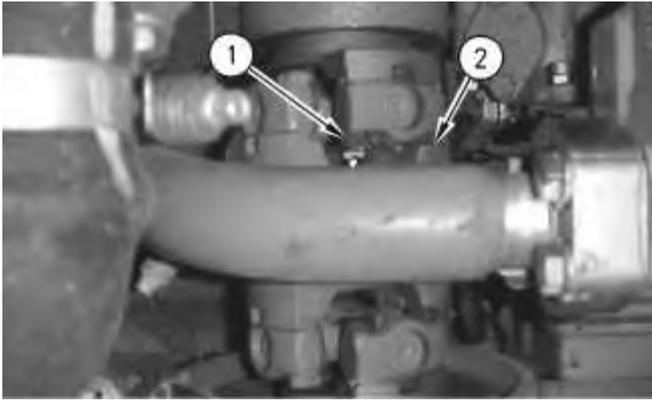


Illustration 4

g00947046

3. Install four bolts (1) to each end of main drive shaft (2). Tighten bolts (1) to a torque of 54 ± 9 N·m (40 ± 7 lb ft).
-

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Disassembly and Assembly D5N Track-Type Tractor Power Train

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i01852534

Priority Valve - Remove

SMCS - 3180-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-9202	Lever Puller Hoist	1
	1U-8226	Lifting Sling	1
ZZ	6V-9508	Face Seal Plug	2
	6V-9829	Cap As	2
	6V-9512	Face Seal Plug	2
	6V-9833	Cap As	2
	6V-9513	Plug	2
	6V-9834	Cap As	2

Note: SERVICE DATA: TOOLING (ZZ) WILL NOT BE IDENTIFIED IN PHOTOGRAPHS IN THE REMOVAL OR THE INSTALLATION. THIS TOOLING IS SHOWN IN ORDER TO ASSIST THE EXPERIENCED SERVICEMAN.

1. Drain the oil from the power train system. The power train system contains approximately 122 L (32 US gal) of oil.
 2. Remove the floorplate.
-

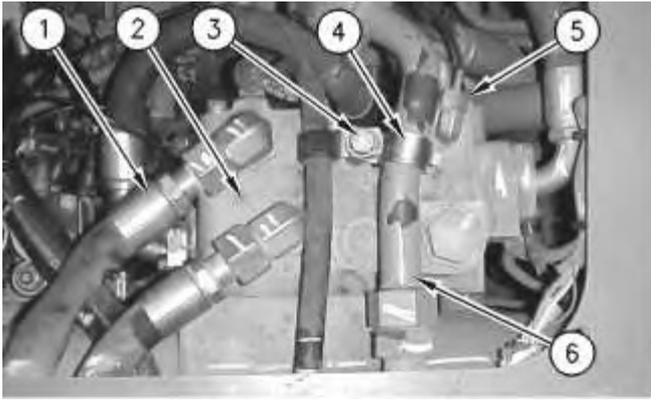


Illustration 1

g00943954

3. Disconnect hose assemblies (1) from priority valve (2) .
4. Remove bolt (3) and clamp (4) .
5. Disconnect tube assembly (6). Position tube assembly (6) out of the way.
6. Disconnect hose assembly (5) from priority valve (2) .

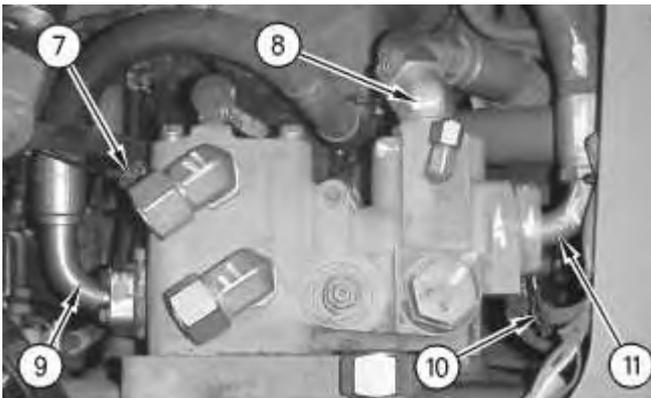


Illustration 2

g00943961

7. Disconnect hose assembly (9) .
8. Disconnect hose assembly (7) .
9. Disconnect hose assembly (8) .
10. Remove clamp (10) .
11. Disconnect hose assembly (11) .

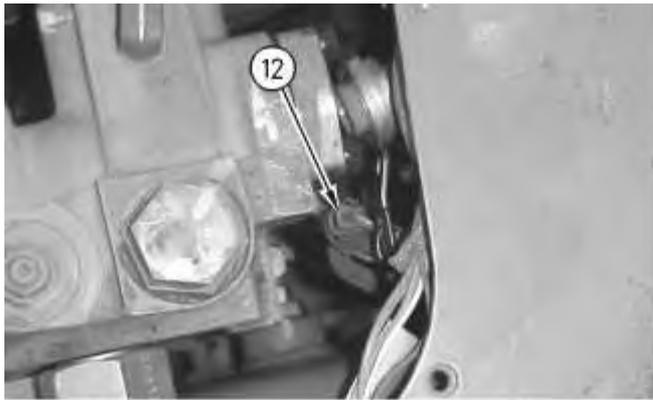


Illustration 3

g00943968

12. Disconnect harness assembly (12) .

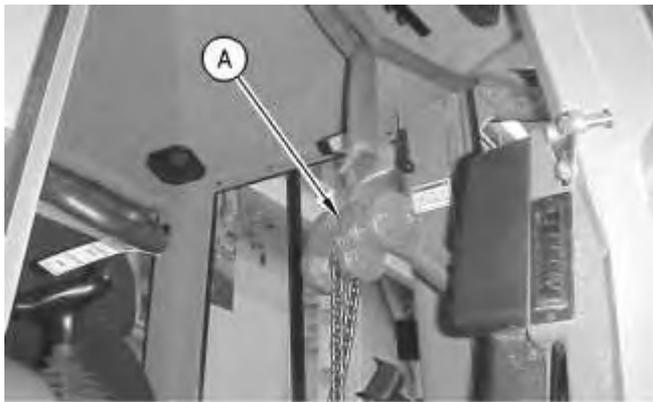


Illustration 4

g00943976

13. Attach Tooling (A) to the machine cab, as shown.

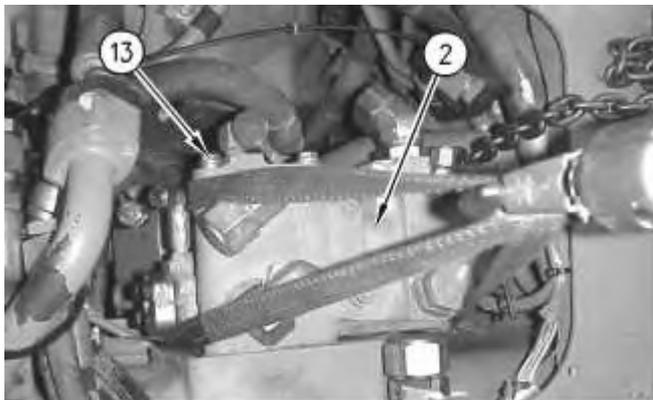


Illustration 5

g00943981

14. Remove five bolts (13). Remove priority valve (2) from the machine. The weight of the priority valve is approximately 34 kg (75 lb).

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Publication Date -01/01/2009

Date Updated -07/01/2009

i01852539

Priority Valve - Disassemble

SMCS - 3180-015

Disassembly Procedure

Start By:

- A. Remove the priority valve. Refer to Disassembly and Assembly, "Priority Valve - Remove".

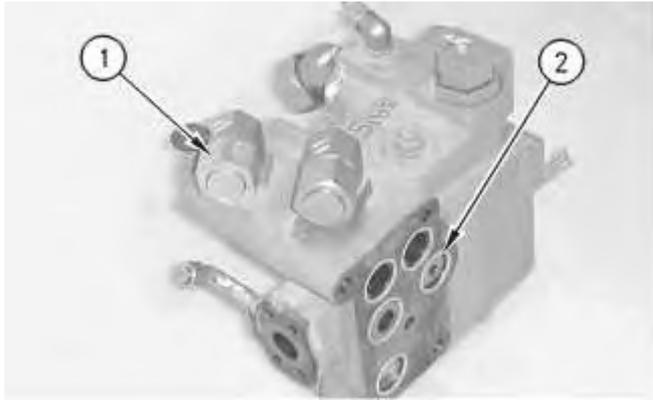


Illustration 1

g00944225

1. Remove fittings (1) and O-ring seals (2) .
-

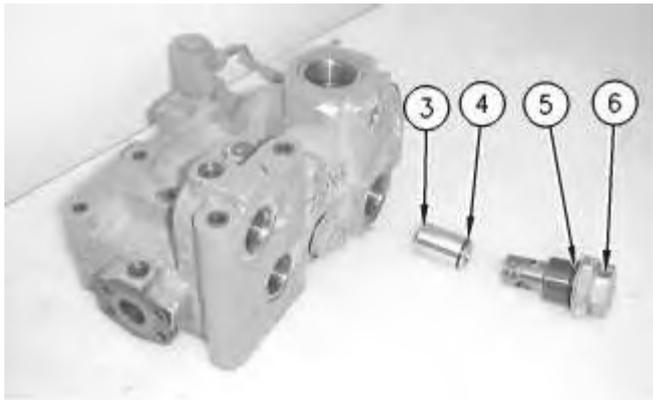


Illustration 2

g00944226

2. Remove retainer assembly (6) and valve (3) .
3. Remove O-ring seal (4) and O-ring seal (5) .

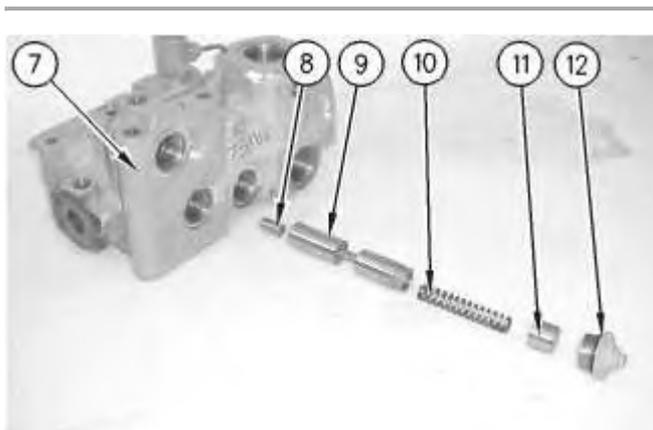


Illustration 3

g00944228

WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

4. Remove adjuster assembly (12), piston (11), spring (10), spool assembly (9), and slug (8) from priority valve (7) .

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