



Service Repair Manual

Models

325D MOBILE HYD POWER

[Previous Screen](#)

Product: MOBILE HYD POWER UNIT

Model: 325D MOBILE HYD POWER UNIT C3N

Configuration: 325D L Mobile Hydraulic Power Units C3N00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly 320 VH and VM Variable Gauge Undercarriage

Media Number -KENR8183-01

Publication Date -01/05/2012

Date Updated -24/05/2012

i04893712

Final Drive - Disassemble

SMCS - 4050-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P - 2420	Repair Stand	1
B	1U - 6400	Puller	1
C	5P - 8707	Plate	1
	1P - 0520	Driver Group	1
	5F - 7366	Forcing Bolt	1
	8T - 0207	Bolt	2
	3H - 0465	Puller Plate	2
	1P - 5546	Cross Block	1

Start By:

- a. Remove the final drive.
-

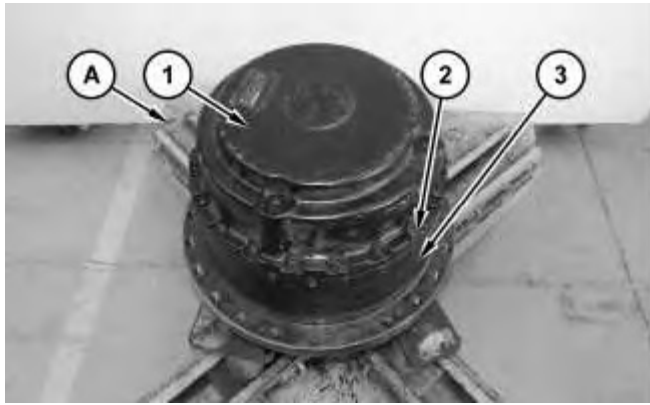


Illustration 1

g03034523

1. Secure final drive (3) to Tooling (A) The weight of the final drive is approximately 254 kg (560 lb). Remove bolts (2) and housing (1). Remove O-ring seal from housing (1).

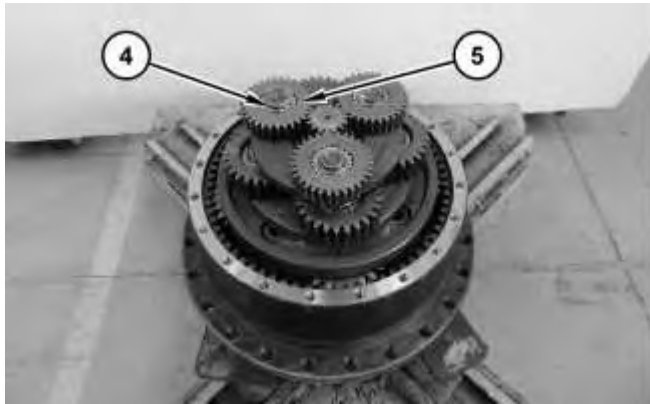


Illustration 2

g03034527

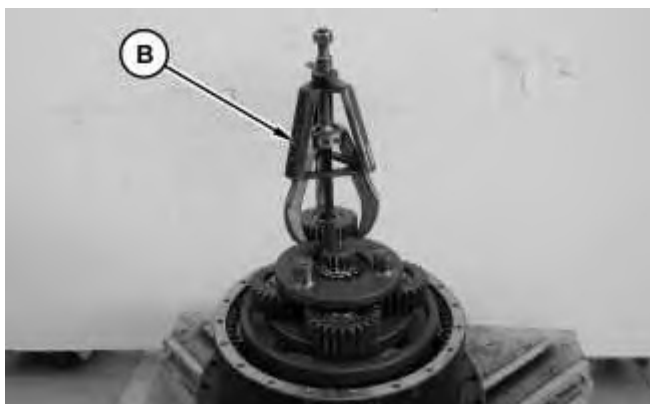


Illustration 3

g03034528

2. Remove retaining ring (4) and planet gear (5). If necessary, use Tooling (B) to remove planet gears (5).

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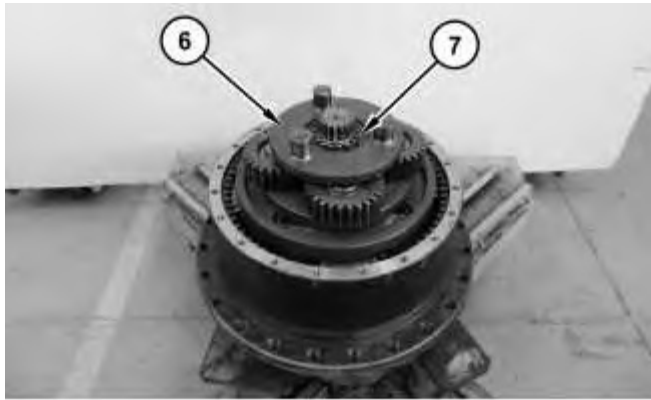


Illustration 4

g03034530

3. Remove retaining ring (7) and planet gear carrier (6).

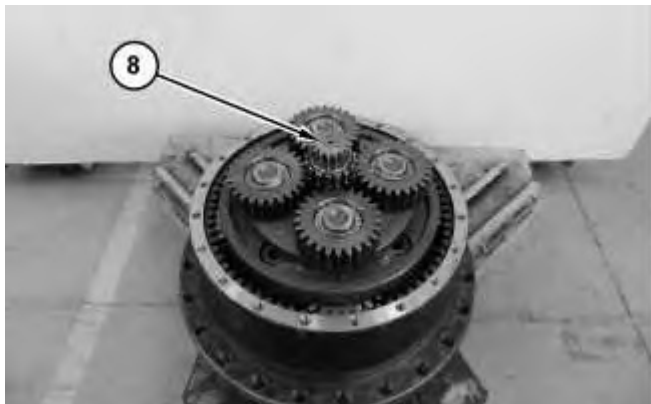


Illustration 5

g03034536

4. Remove sun gear (8).

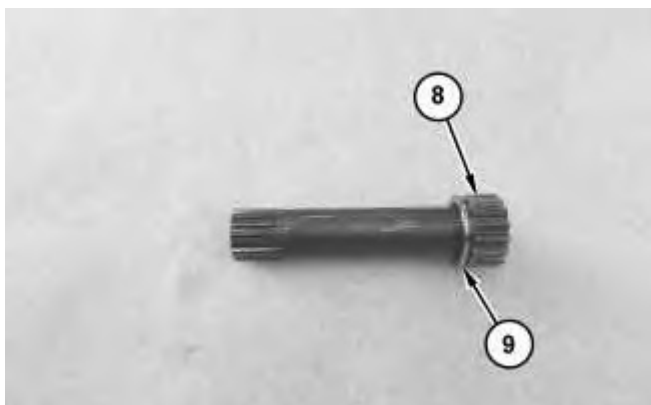


Illustration 6

g03034556

5. Remove spacer (9) from sun gear (8).

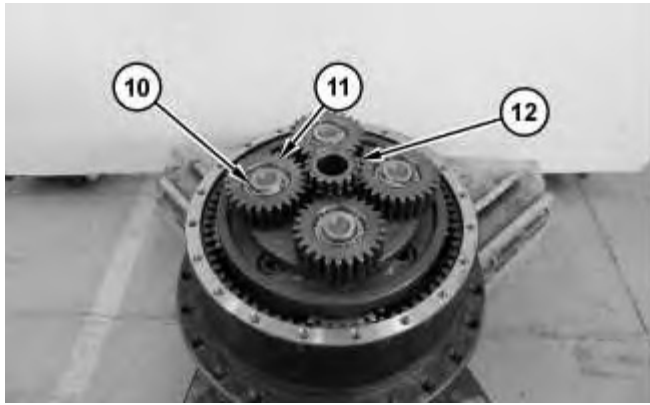


Illustration 7

g03034559

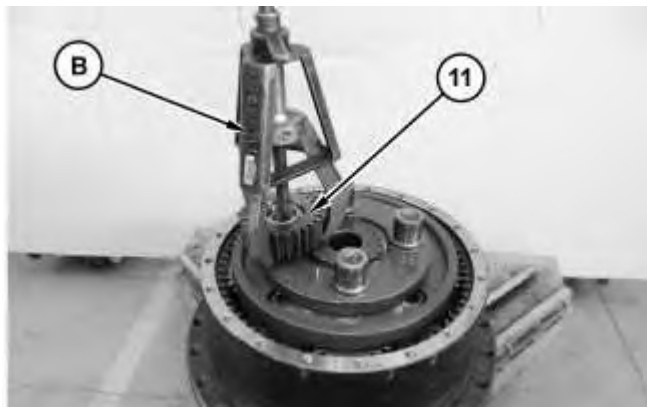


Illustration 8

g03034582

6. Remove sun gear (12) and remove retaining ring (10) and planet gears (11). If necessary, use Tooling (B) to remove planet gears (11).

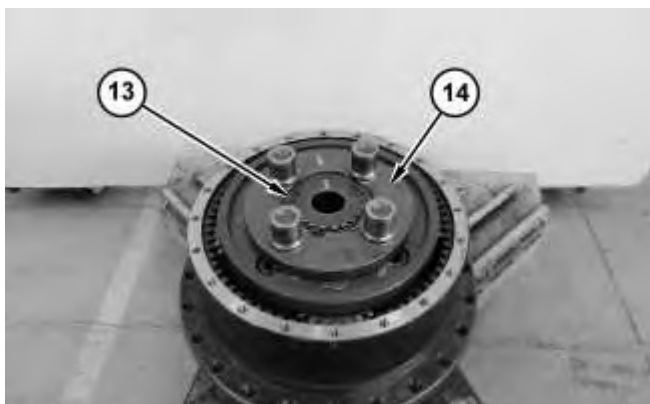


Illustration 9

g03034575

7. Remove retaining ring (13) and planet carrier (14).

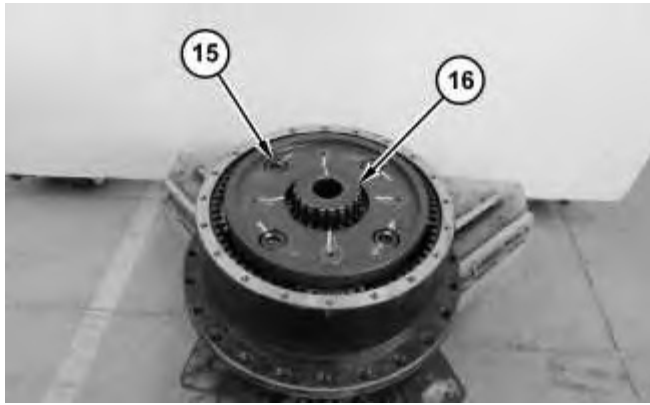


Illustration 10

g03034581

8. Remove sun gear (16) and remove bolt's (15).

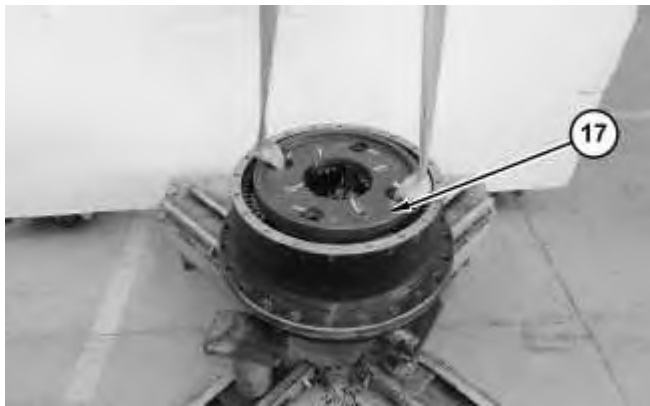


Illustration 11

g03034598

9. Attach suitable lifting device to planet carrier (17). The weight of planet carrier is approximately 32 kg (70 lb). Remove planet carrier (17).

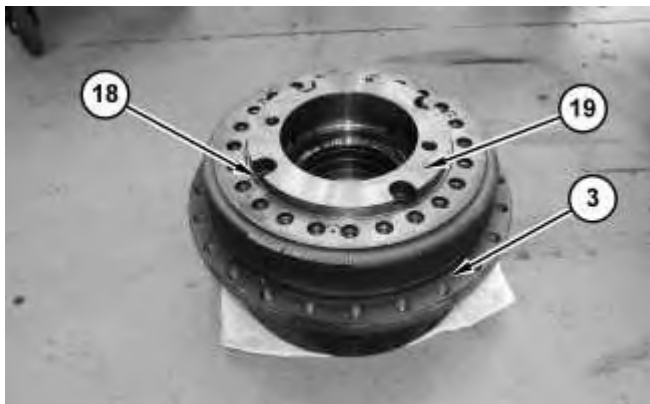


Illustration 12

g03034599

10. Remove final drive (3) from Tooling (A). Place final drive (3) on floor. The weight of final drive is approximately 163 kg (360 lb). Remove bolts (18) and flange (19).

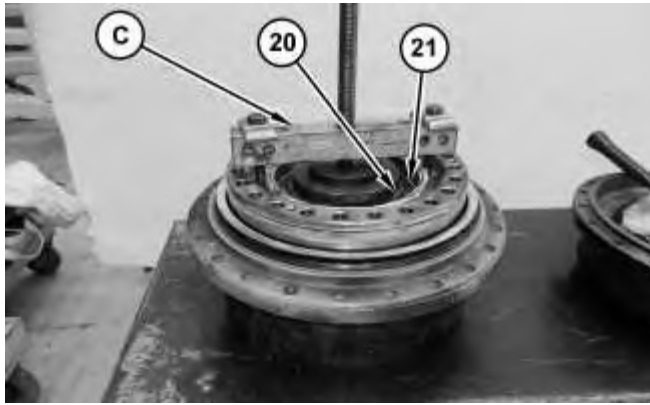


Illustration 13

g03034600

11. Use Tooling (C) to press down on the pushing disc (20), to remove retaining ring (21).

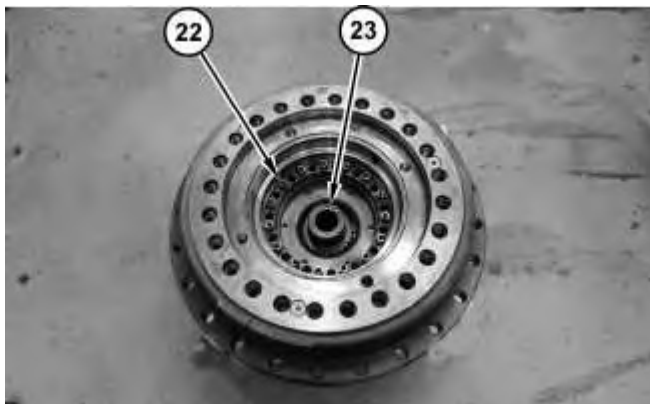


Illustration 14

g03034604

12. Remove springs (22) and brake shaft (23).

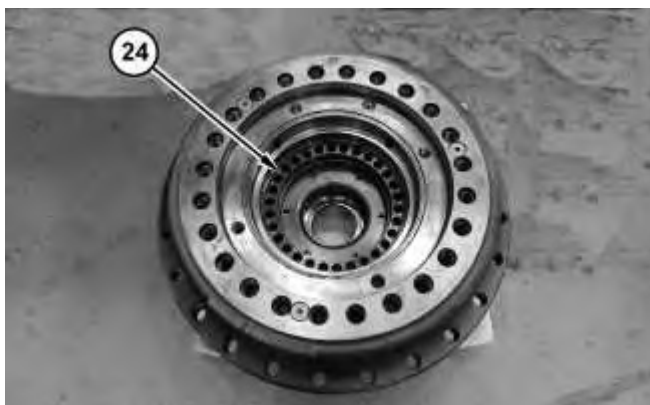


Illustration 15

g03034620

13. Remove piston (24).

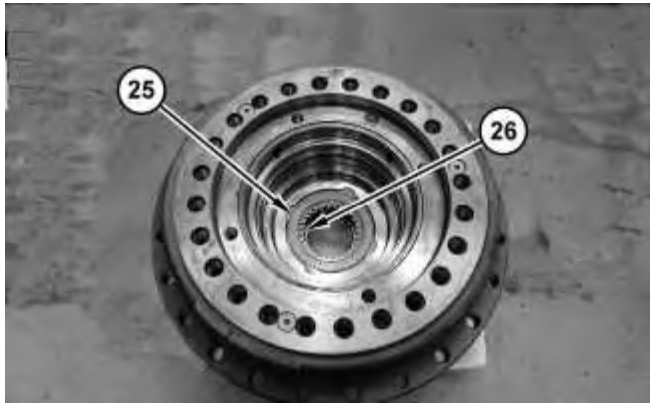


Illustration 16

g03034621

14. Remove plates (25) and discs (26) .

Note: Note the order at which the friction discs and plates are removed. For installation purposes.

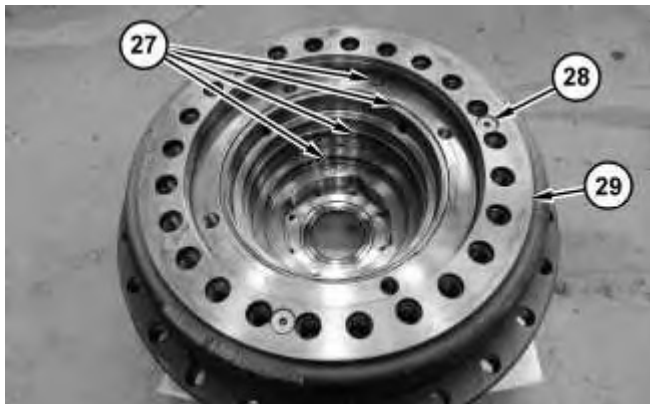


Illustration 17

g03034698

15. Remove O-ring seals (27), cap screws (28) and cover (29).



Illustration 18

g03034716

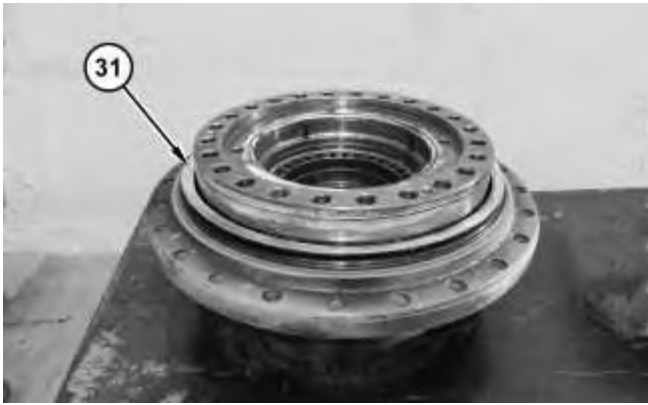


Illustration 19

g03034718

16. Remove Duo-Cone seal (30) and Duo-Cone seal (31).

[Previous Screen](#)

Product: MOBILE HYD POWER UNIT

Model: 325D MOBILE HYD POWER UNIT C3N

Configuration: 325D L Mobile Hydraulic Power Units C3N00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly 320 VH and VM Variable Gauge Undercarriage

Media Number -KENR8183-01

Publication Date -01/05/2012

Date Updated -24/05/2012

i06146851

Final Drive - Assemble

SMCS - 4050-016

Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P - 2420	Repair Stand	1
B	1U - 6400	Puller	1
C	5P - 8707	Plate	1
	1P - 0520	Driver Group	1
	5F - 7366	Forcing Bolt	1
	8T - 0207	Bolt	2
	3H - 0465	Puller Plate	2
	1P - 5546	Cross Block	1
D	161 - 4350	Duo-Cone Seal Installer	1
	165 - 5192	Cord Stock	1
E	1U-5933	Installer	1

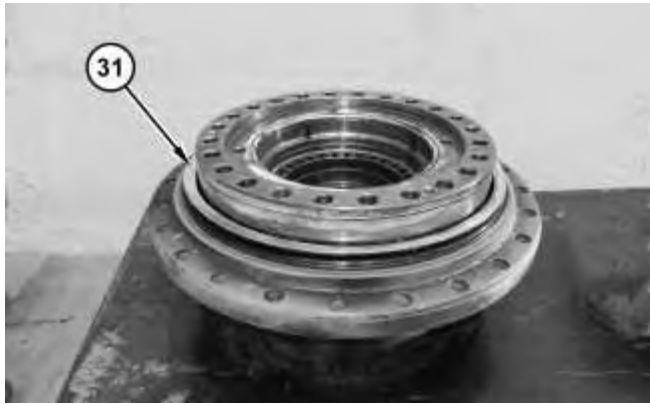


Illustration 1

g03034756

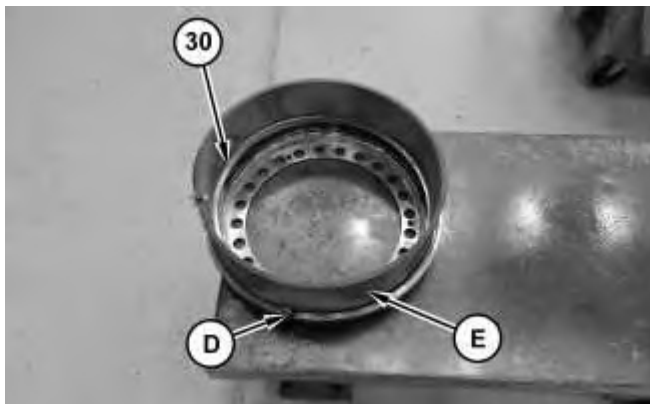


Illustration 2

g03034757

1. Use Tooling (E) and Tooling (D) to assemble Duo-Cone seal (28) . Use Tooling (E) to install Duo-Cone seal (29) .

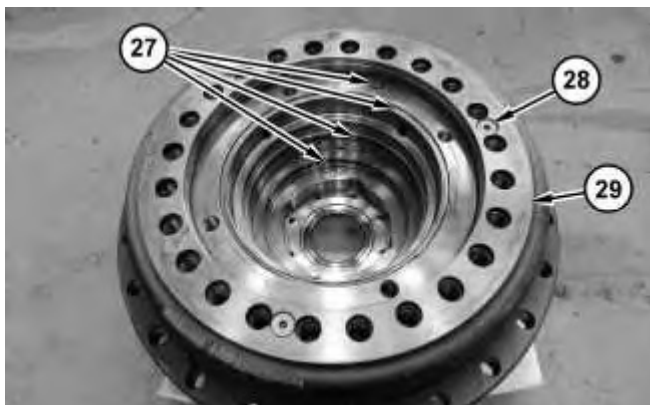


Illustration 3

g03034776

2. Install O-ring seals (27) and cover (29) Install cap screws (28) . Tighten cap screws (28) to a torque of 50 N·m (36 lb ft).

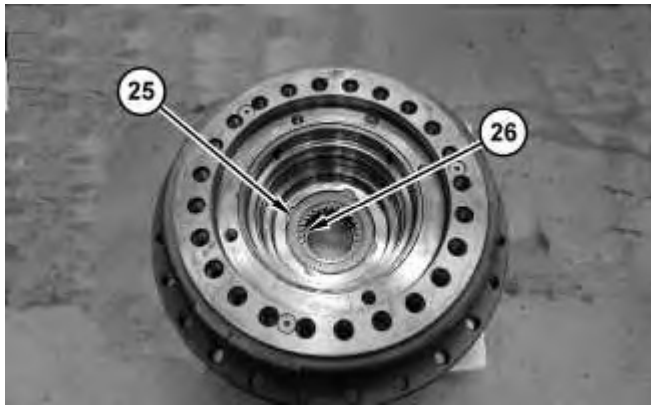


Illustration 4

g03034777

3. Install plates (25) and discs (26) .

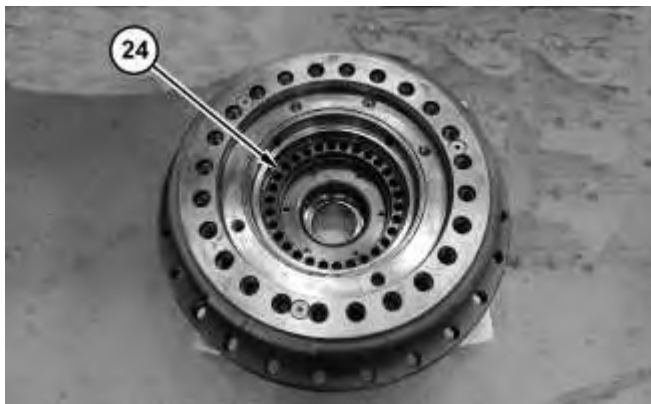
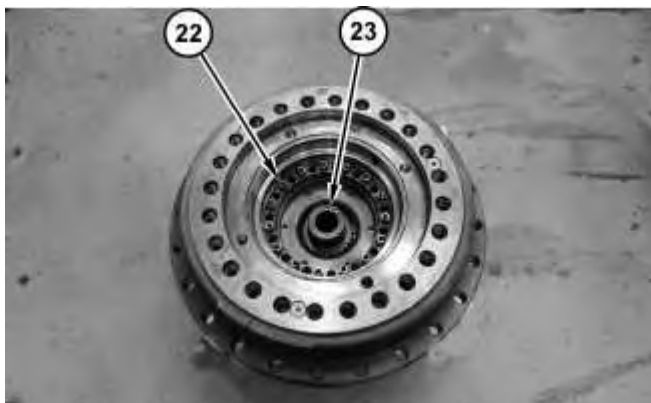


Illustration 5

g03034779

4. Install piston (24) .



5. Install springs (22) and brake shaft (23) .

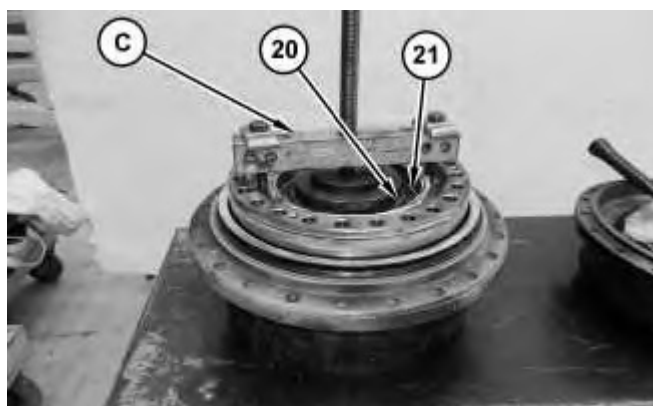


Illustration 7

6. Use Tooling (C) to apply pressure on the pushing disc (20) . Install the retaining ring (21) .

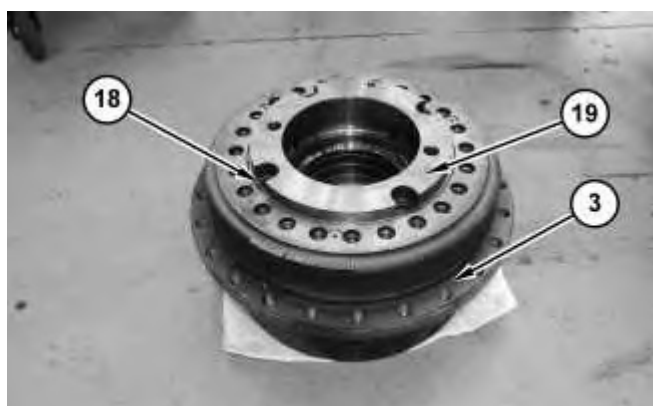
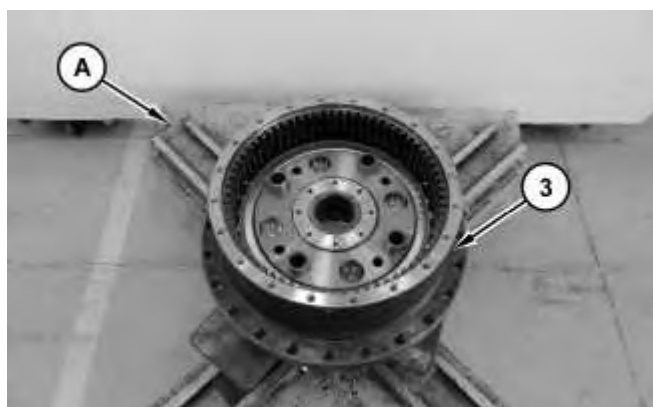


Illustration 8



7. Install flange (19) and bolts (18) , on final drive (3) . Install final drive (3) on to Tooling (A) . The weight of final drive (3) is 163 kg (360 lb).

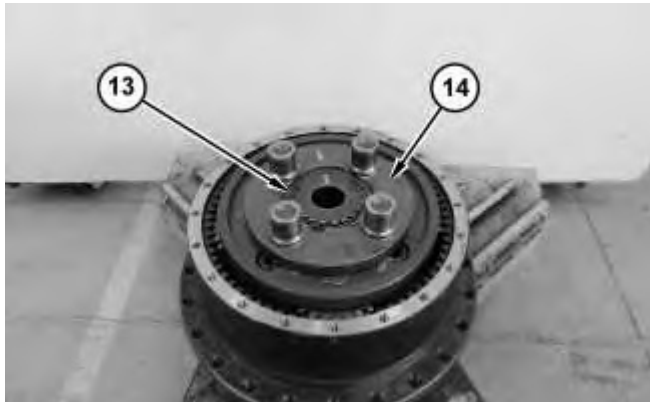


Illustration 10

8. Install planet carrier (13) and retaining ring (12) .

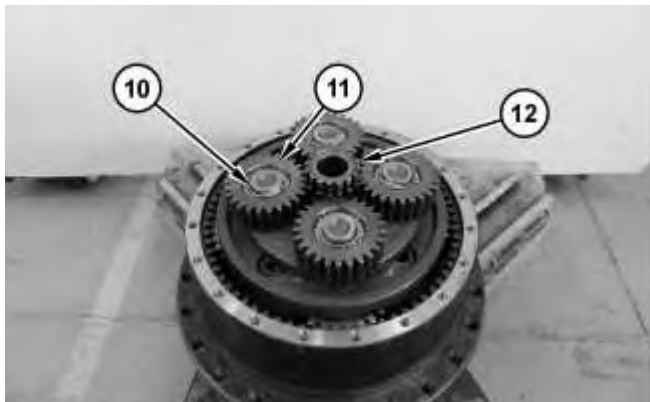


Illustration 11

9. Install planet gears (11) , install retaining ring (10) and, sun gear (12) .
-



Illustration 12

g03034831

10. Install spacer (9) onto the sun gear (8) .

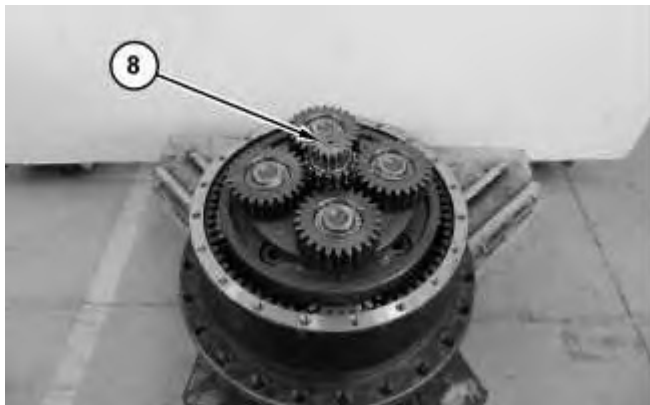


Illustration 13

g03034833

11. Install sun gear (8) .

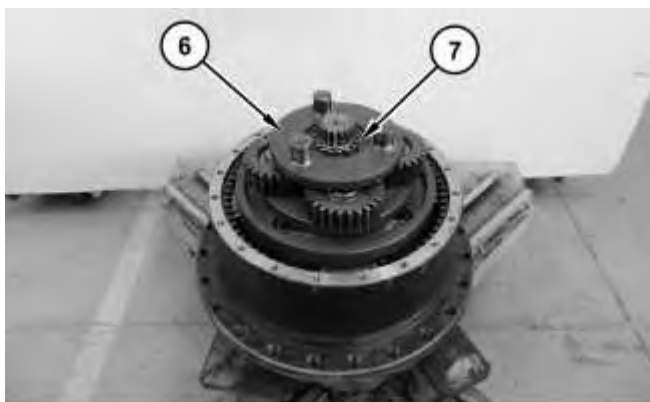


Illustration 14

g03034836

12. Install planet gear carrier (6) and retaining ring (7) .

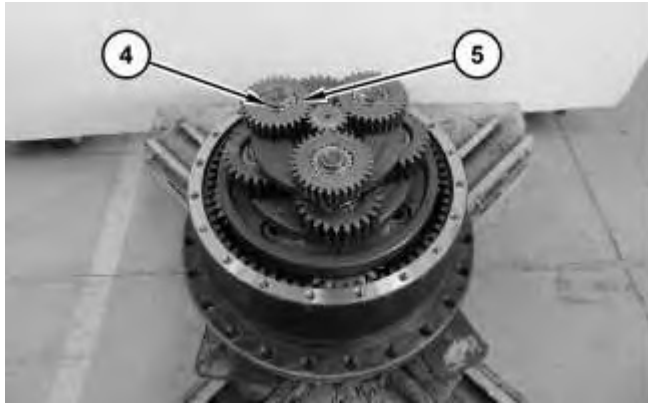


Illustration 15

g03034839

13. Install planet gears (5) and retaining ring (4) .

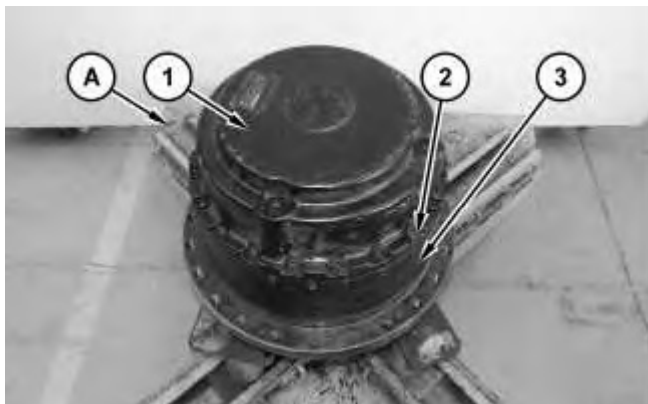


Illustration 16

g03034842

14. Install housing (1) with O-ring seal, install bolts (2) Remove final drive (3) from Tooling (A) . The weight of the final is approximately 254 kg (560 lb).

[Previous Screen](#)

Product: MOBILE HYD POWER UNIT

Model: 325D MOBILE HYD POWER UNIT C3N

Configuration: 325D L Mobile Hydraulic Power Units C3N00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly

325D MHPU

Mobile Hydraulic Power Units

Engine Supplement

Media Number -KENR6074-01

Publication Date -01/03/2007

Date Updated -12/03/2007

i07257625

Hydraulic System Pressure - Release

SMCS - 5050-553-PX



Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before performing any service. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

The release of hydraulic pressure in a hydraulic circuit is required before service is performed to that hydraulic circuit. Release the pressure in the hydraulic circuits before any hydraulic lines are disconnected or removed from that hydraulic circuit.

Reference: Refer to the Operation and Maintenance Manual, "System Pressure Release" for the detailed procedure to release the system pressure.

[Previous Screen](#)

Product: MOBILE HYD POWER UNIT

Model: 325D MOBILE HYD POWER UNIT C3N

Configuration: 325D L Mobile Hydraulic Power Units C3N00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly

325D MHPU

Mobile Hydraulic Power Units

Engine Supplement

Media Number -KENR6074-01

Publication Date -01/03/2007

Date Updated -12/03/2007

i02540854

Alternator - Remove and Install - Engine in Machine

SMCS - 1405-010

Removal Procedure

Note: Put identification marks on all wires for installation purposes.

1. Disconnect the positive battery terminal. This will prevent any damage to the wiring or the alternator.
-

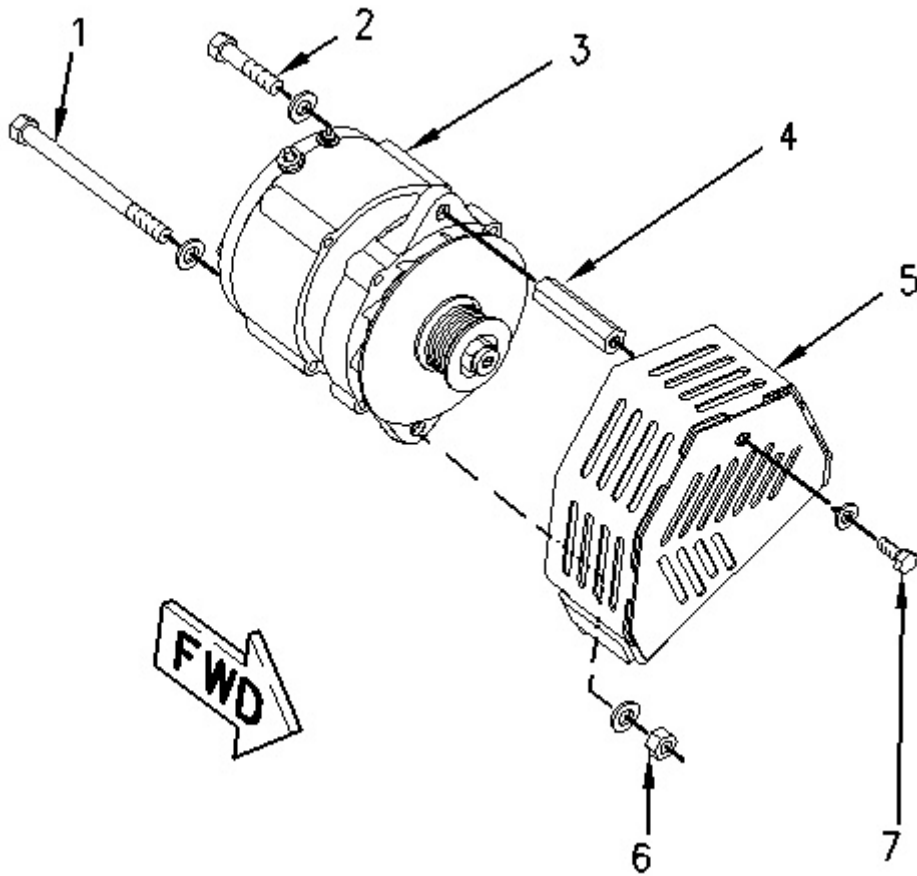


Illustration 1

g01003392

The above Illustration is a reference for the following steps.

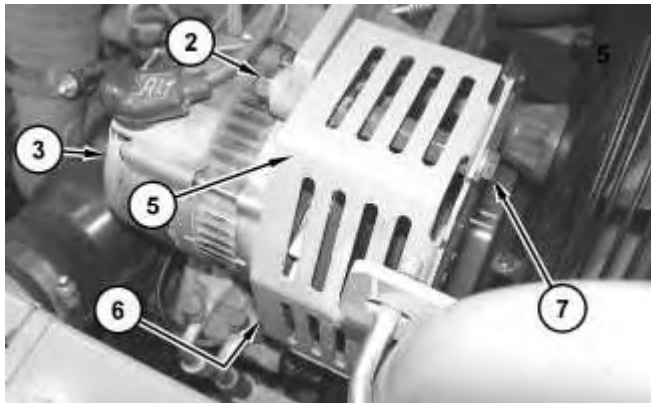


Illustration 2

g01272234

2. Remove bolt (7) .
3. Remove nut (6) from lower bolt (1) on alternator (3). Do not remove bolt (1) at this time.
4. Remove guard (5) .

5. Remove spacer (4) and bolt (2) .



Illustration 3

g01003460

6. Remove belt (8) from the alternator. Refer to Operation and Maintenance Manual, "Belt - Inspect/Adjust/Replace".

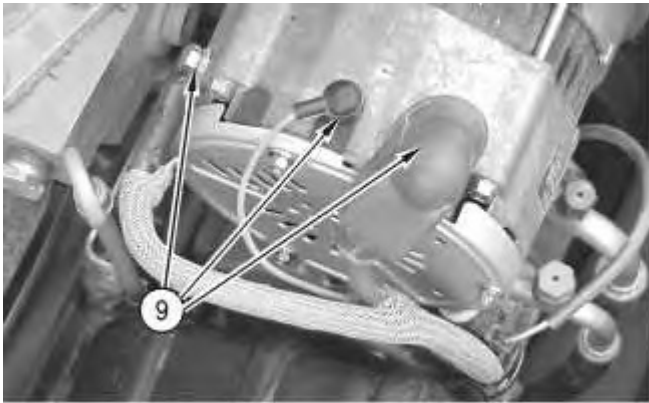


Illustration 4

g01003492

7. Disconnect harness assembly (9) .

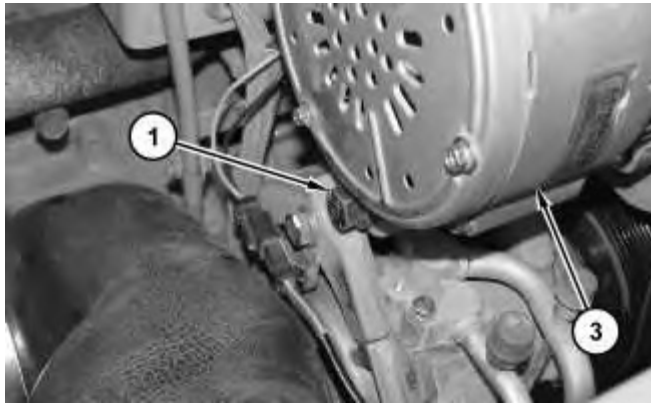


Illustration 5

g01217939

8. Remove lower bolt (1) and alternator (3) .

Installation Procedure

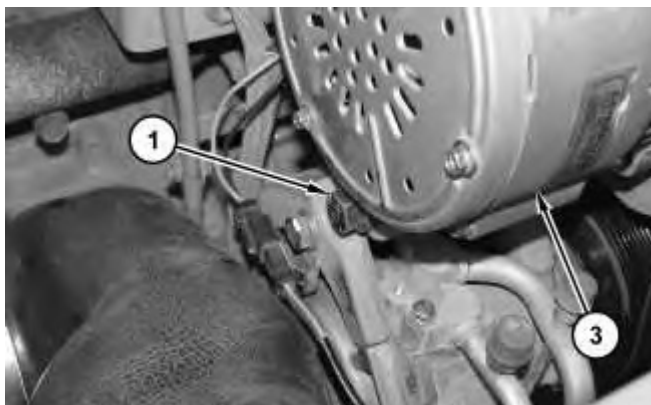
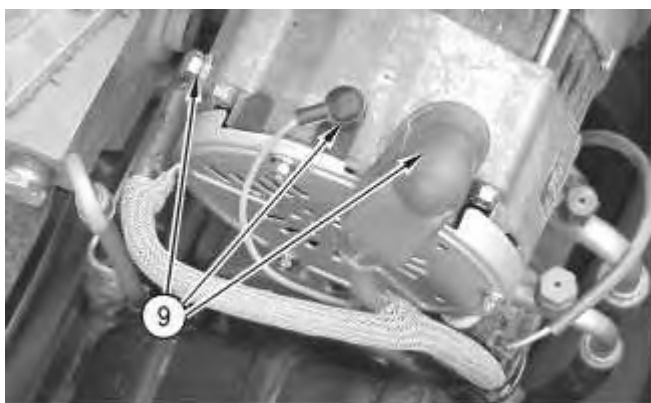


Illustration 6

g01217939

1. Position alternator (3) and install lower bolt (1) .

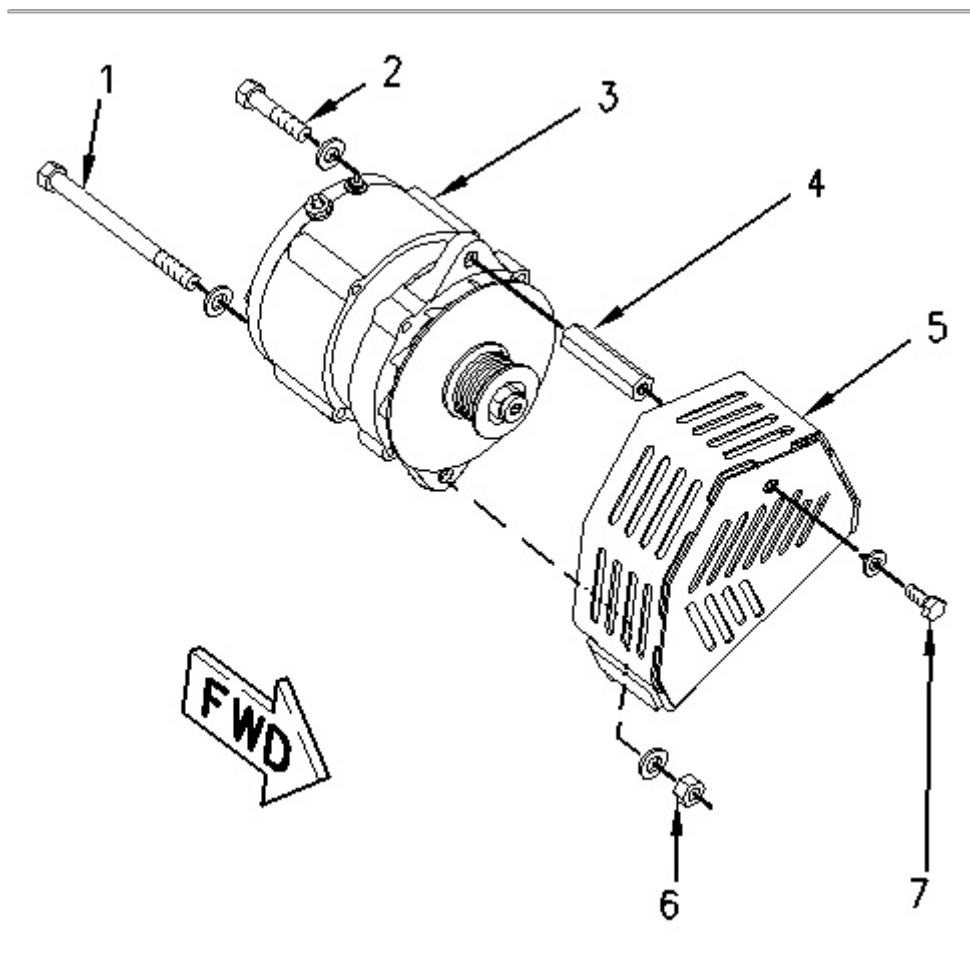


2. Connect harness assembly (9) to the original locations that were noted during the removal procedure.



Illustration 8

3. Install belt (8) on the alternator. Refer to Operation and Maintenance Manual, "Belt - Inspect/Adjust/Replace".



The above Illustration is a reference for the following steps.

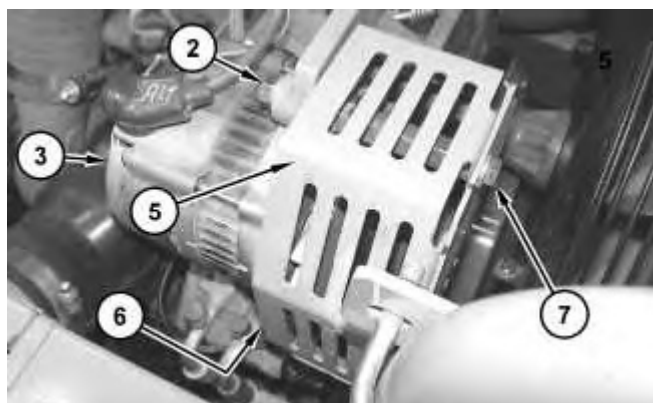


Illustration 10

g01272234

4. Install bolt (2) and spacer (4).
5. Position guard (5) .
6. Install bolts (7) .
7. Install nut (6) on lower bolt (1) on alternator (3).
8. Connect the positive battery terminal.

[Previous Screen](#)

Product: MOBILE HYD POWER UNIT

Model: 325D MOBILE HYD POWER UNIT C3N

Configuration: 325D L Mobile Hydraulic Power Units C3N00001-UP (MACHINE) POWERED BY C7 Engine

Disassembly and Assembly

325D MHPU

Mobile Hydraulic Power Units

Engine Supplement

Media Number -KENR6074-01

Publication Date -01/03/2007

Date Updated -12/03/2007

i02540864

Electric Starting Motor - Remove and Install - Engine in Machine

SMCS - 1453-010

Removal Procedure

1. Move the battery disconnect switch to the OFF position.
2. Disconnect the battery cable on the positive terminal of the battery. Move the battery cable away from the terminal.
3. Put identification marks on all harness assemblies and on all wires for installation purposes.

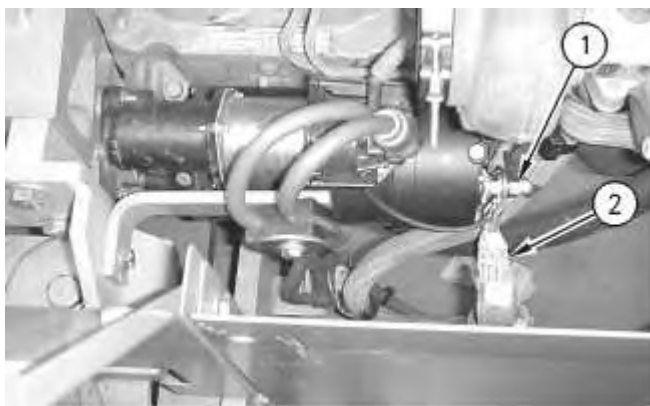


Illustration 1

g00787887

4. Remove nut (1). Remove ground strap (2) from the electric starting motor.

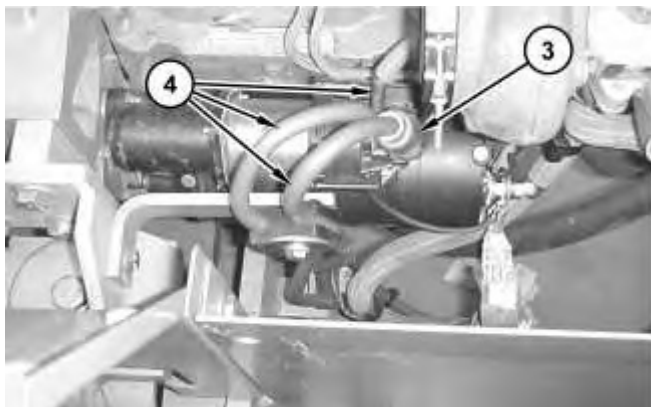


Illustration 2

g01272240

5. Raise the rubber boot and remove nut (3). Remove cable assemblies (4) from the electric starting motor.

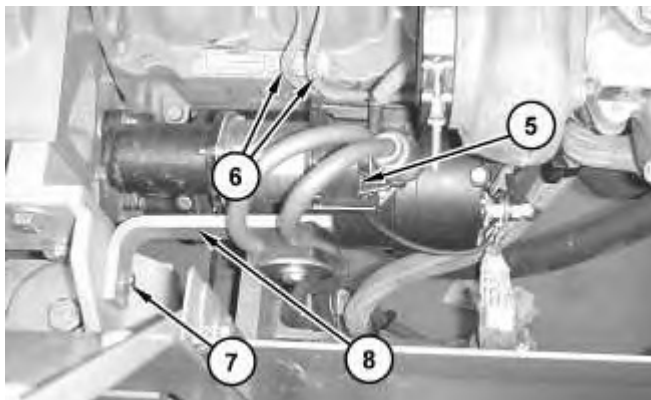
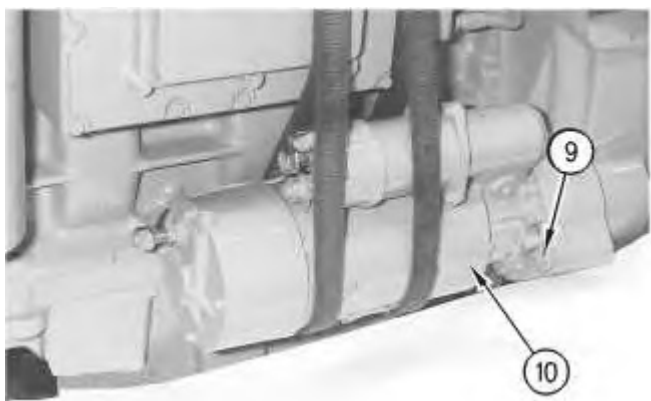


Illustration 3

g01272243

6. Remove the small nut and cover (5). Remove harness assemblies (6) .
7. Remove bolt (7). Move bracket (8) to the side.





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Typical example

8. Fasten a suitable lifting device to electric starting motor (10). The weight of electric starting motor (10) is approximately 29 kg (65 lb).
9. Remove bolts (9). Remove electric starting motor (10) from the flywheel housing.

Installation Procedure

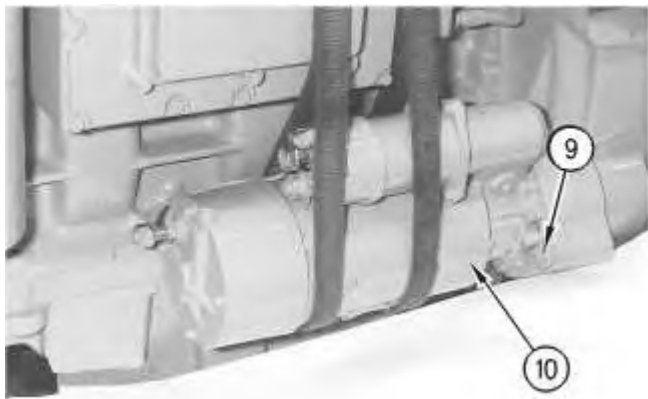


Illustration 5

g00886798

1. Fasten a suitable lifting device to electric starting motor (10). The weight of the electric starting motor is approximately 29 kg (65 lb).
2. Place electric starting motor (10) in the flywheel housing. Install bolts (9) .

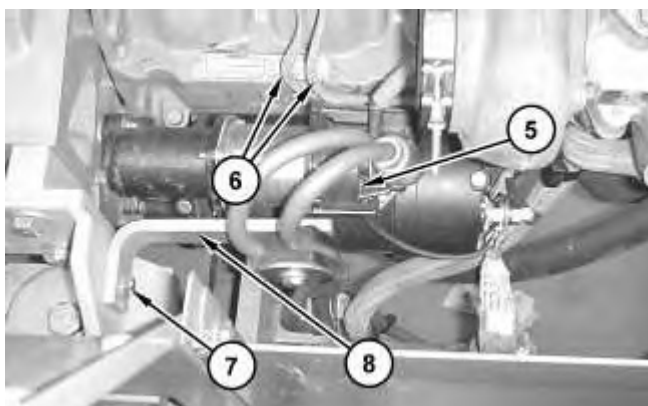


Illustration 6

g01272243

3. Install bracket (8) in position. Secure bracket (8) with bolt (7) .

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