

Product: MOTOR GRADER

Model: 120H ES MOTOR GRADER 6NM

Configuration: 120H Motor Grader 6NM00001-UP (MACHINE) POWERED BY 3116 Engine

## Disassembly and Assembly 120H & 135H MOTOR GRADERS POWER TRAIN

Media Number -SEN8543-02

Publication Date -01/09/2004

Date Updated -25/08/2009

SEN85430006

### Parking Brake

SMCS - 4267-011; 4267-012

### Remove Parking Brake

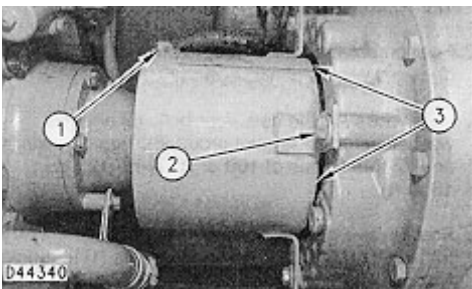
Tools Needed	A
1U-9752 Transmission Jack	1



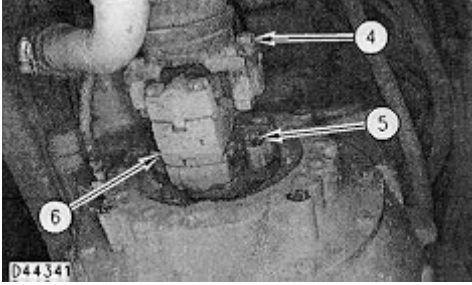
**WARNING**

Be cautious of hot oil when draining the oil from the transmission and when disconnection and transmission oil lines Hot oil can cause burns. Stay clear of any oil that may spill during disconnected of transmission oil lines or draining of oil.

1. Drain the transmission oil in a suitable container for storage or disposal. The capacity of the power train system on the 120H and 135H Motor Graders is **47 Liters (50 qt)**.



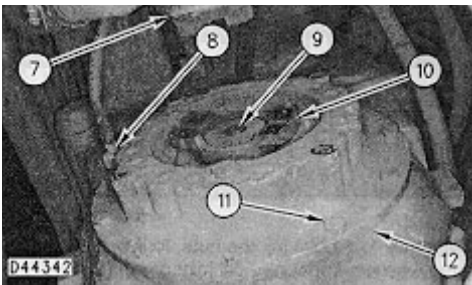
2. Remove bolts (1), the washers, bolts (2) and the washers from two guards (3). Remove two guard (3) from the front of the transmission.



3. Remove four bolts (4), the nuts, four bolts (5) and the washers from universal joint group (6). Remove universal joint group (6) from the shaft.

 **WARNING**

**Do not disconnect any air line from the machine until all the air pressure in the air tank is to zero. Release air pressure from the air tank by loosening the bleed valves. The bleed valves are underneath the rear bumper on the sides of the air tank.**



4. Release the air pressure from the air tank.

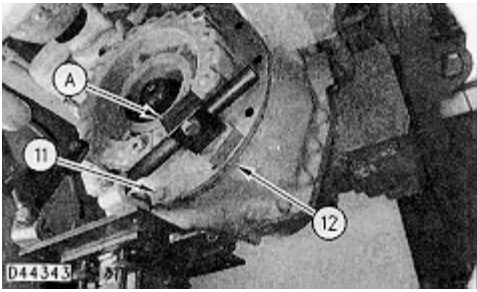
5. Disconnect air line (8) from the parking brake housing.

6. Remove bolt (9) and the washer that hold yoke (10) to the transmission shaft.

7. Remove yoke (10) and its O-ring seal from the transmission shaft.

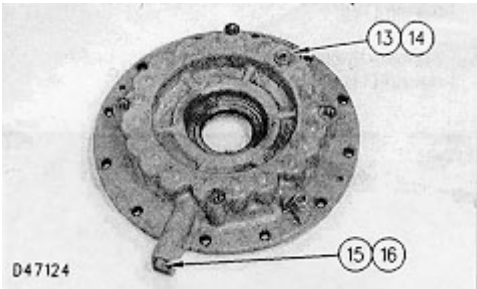
8. Remove yoke (7) from the differential.

9. Remove all but two of bolts (11) from parking brake housing (12). Leave one bolt at the top and bolt at the bottom of parking brake housing (12).



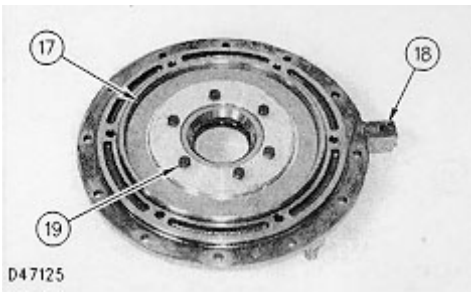
**10.** Attach Tooling (A) to parking brake housing (12).

**11.** Remove remaining bolts (11) from parking brake housing (12). Remove parking brake housing (12) from the transmission.



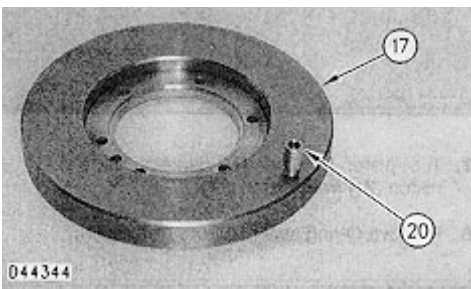
**12.** Remove plug (13) and O-ring seal (14) from parking brake housing (12).

**13.** Remove plug (15) and O-ring seal (16) from parking brake housing (12).

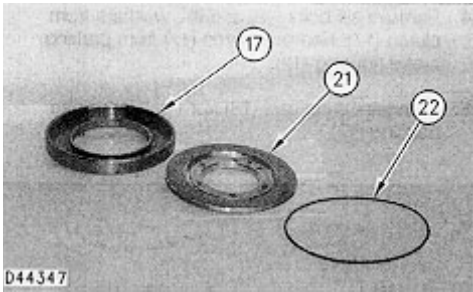
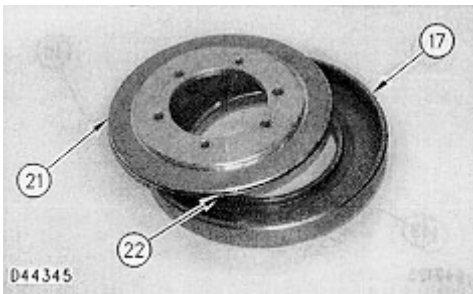


**14.** Remove six bolts (19) and the washers from piston (17). Remove piston (17) from parking brake housing (12).

**15.** Remove O-ring seal (18) from parking brake housing (12).

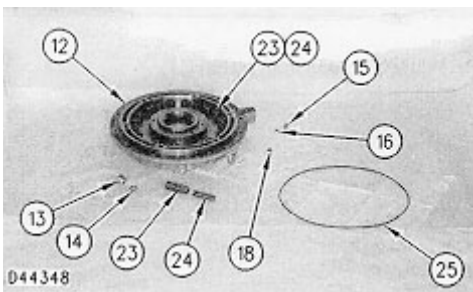


**16.** Remove plug (20) from piston (17).

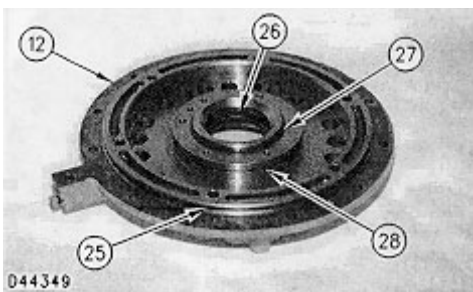


**17.** Turn piston (17) over 180 degrees. Separate piston (21) from piston (17).

**18.** Remove O-ring seal (22) from piston (21).



**19.** Remove twenty springs (23) and twenty springs (24) from parking brake housing (12).



**20.** Remove O-ring seal (25) from parking brake housing (12).

**21.** Remove lip seal (26) from parking brake housing (12).

**22.** Remove O-ring seal (27) from parking brake housing (12).

**23.** Remove O-ring seal (28) from parking brake housing (12).

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