

Authorized Field Change

INTERNATIONAL

AFC G-02907

Date: December, 2002

Subject File: TRANSMISSION

Subject: Relocation of the Transfer Case Breather and Install a Breather into the Neutral Position Air Inlet Port in 7300, 7400, and 7500, 4X4 and 6X6 Models Built Between September 27, 2001 and July 30, 2002

Truck Model: 7300

Start Date: 09/27/2001 End Date: 07/30/2002

Truck Model: 7400

Start Date: 09/27/2001 End Date: 07/30/2002

Truck Model: 7500

Start Date: 09/27/2001 End Date: 07/30/2002

DESCRIPTION

The transfer cases used in 7300, 7400, and 7500 Models built between September 27, 2001 and July 30, 2002 may lose oil through the breather. To correct this issue, the breather must be relocated to a new location on the rear of the transfer case housing.

In addition, to improve transfer case shift quality between high and low positions, a breather will be added to the neutral air inlet port.

PARTS INFORMATION

Table 1 [Parts Information](#)

Part Number	Description	Quantity
NPN	19/32 Inch Drill Bit	1
NPN	3/8-18 NPT Pipe Tap	1
NPN	3/8-18 Pipe Plug	1
2585583C1	Breather	1
2585584C1	Reducer Bushing	1

SERVICE PROCEDURE



WARNING – To prevent property damage and/or personal injury, park the vehicle on a flat level surface, turn the engine off, set the parking brakes and chock the wheels.

1. Remove the breather and 90 degree elbow from the front of the transfer case.
2. Install an air fitting into the breather bore (Figure 1).

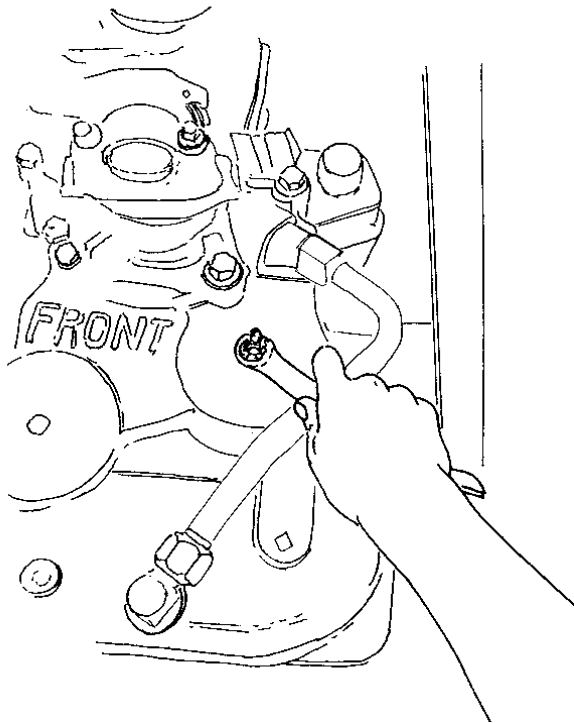


Figure 1 Install Air Fitting

3. Connect a 10 PSI maximum regulated air supply to the air fitting (Figure 2) to pressurize the transfer case.

SERVICE PROCEDURE (CONT.)

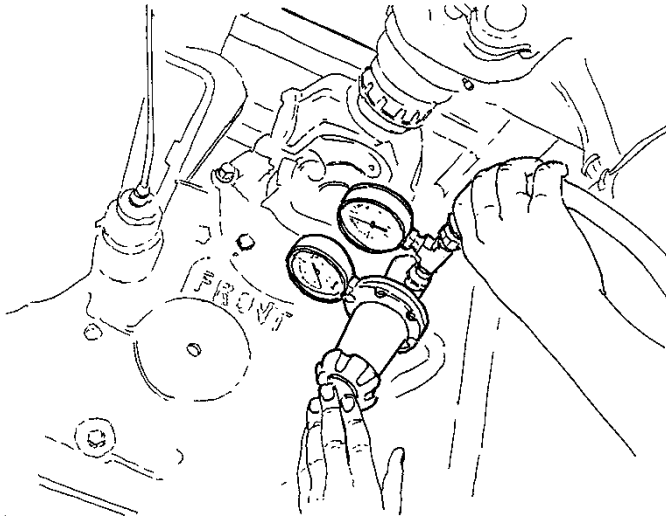


Figure 2 Connect Air Supply

4. At the rear of the transfer case, locate the boss shown in Figure 3.

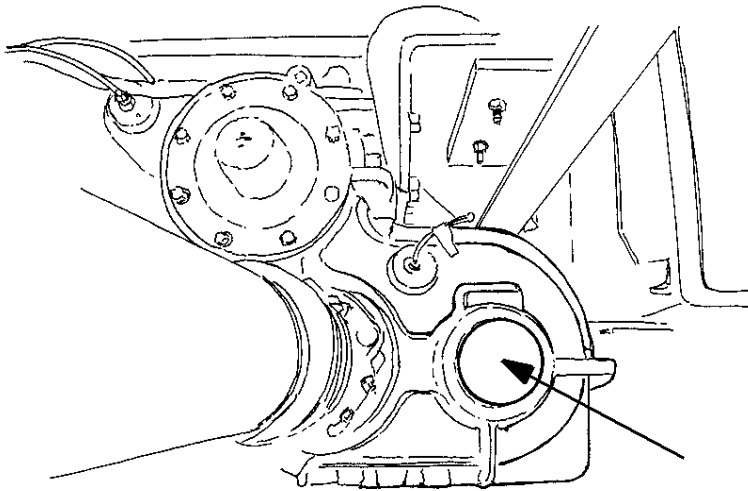


Figure 3 Transfer Case Boss (Arrow)

5. Locate the center of the boss (Figure 4) and center punch (Figure 5).

SERVICE PROCEDURE (CONT.)

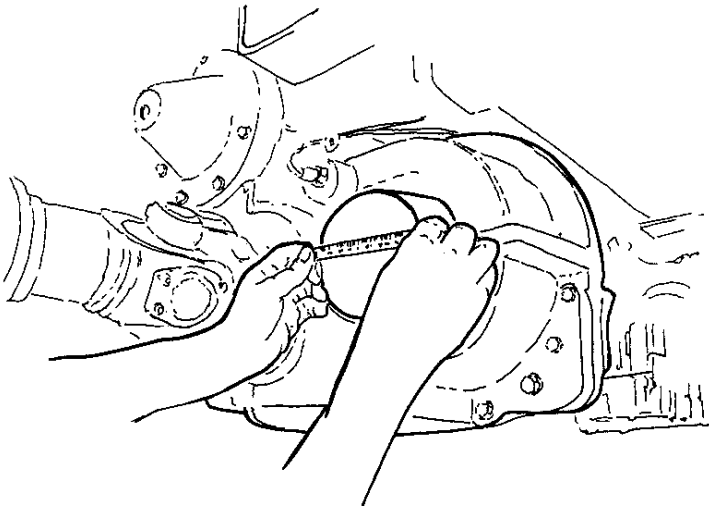


Figure 4 Locate Boss Center

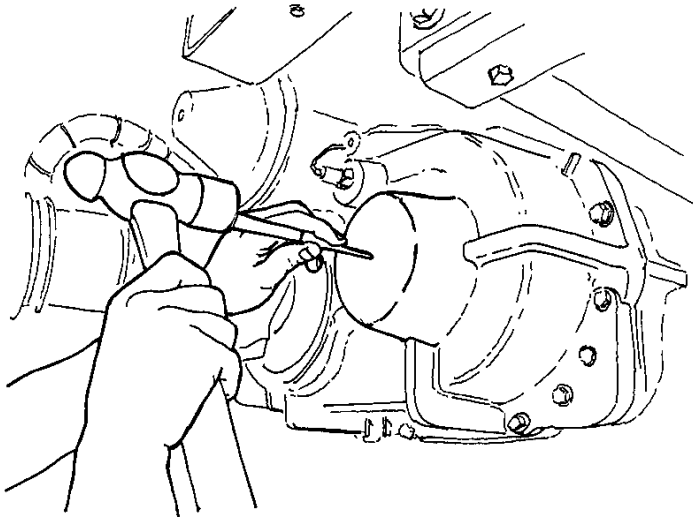


Figure 5 Center Punch Boss



WARNING – To prevent personal injury from flying debris when drilling through the pressurized transfer case housing, wear eye protection and a face shield.

NOTE – A magnet is used in the next Step to prevent metal chips from entering the transfer case housing.

6. Position a magnet as close as possible to catch metal chips and drill through the boss with a 19/32 inch drill bit (Figure 6 and Figure 7).

SERVICE PROCEDURE (CONT.)

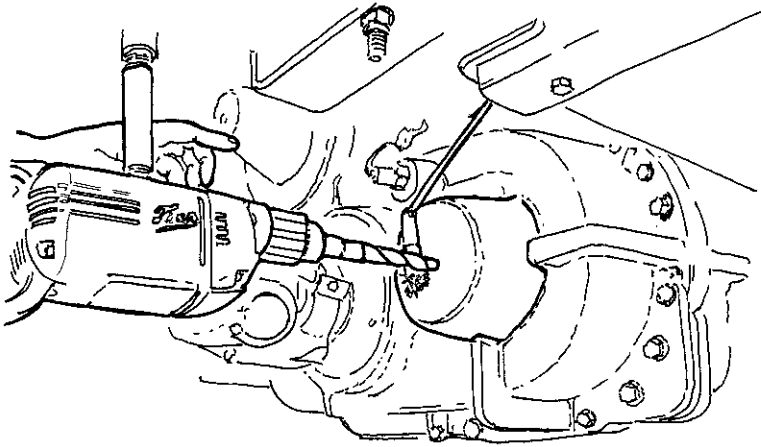


Figure 6 Position Magnet at Drill Location

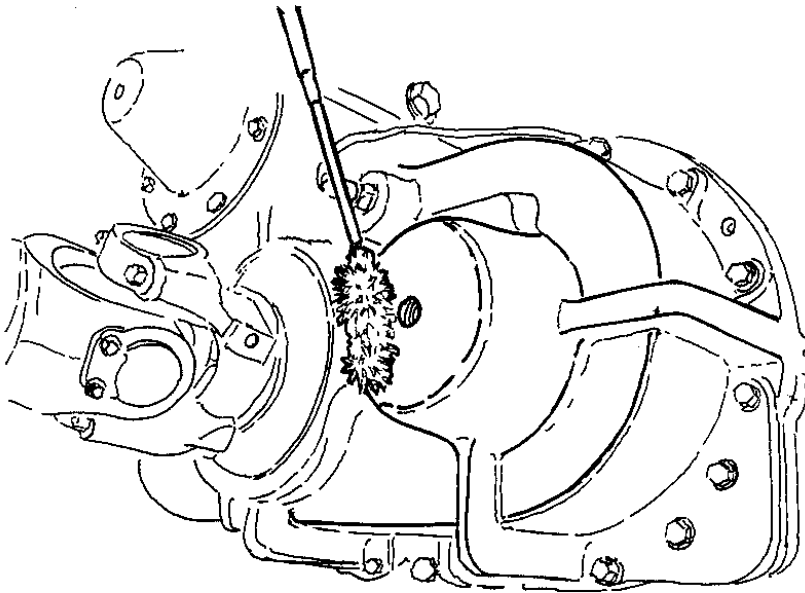


Figure 7 Drill Debris on Magnet

7. Tap the hole with a 3/8-18 NPT pipe tap (Figure 8).

SERVICE PROCEDURE (CONT.)

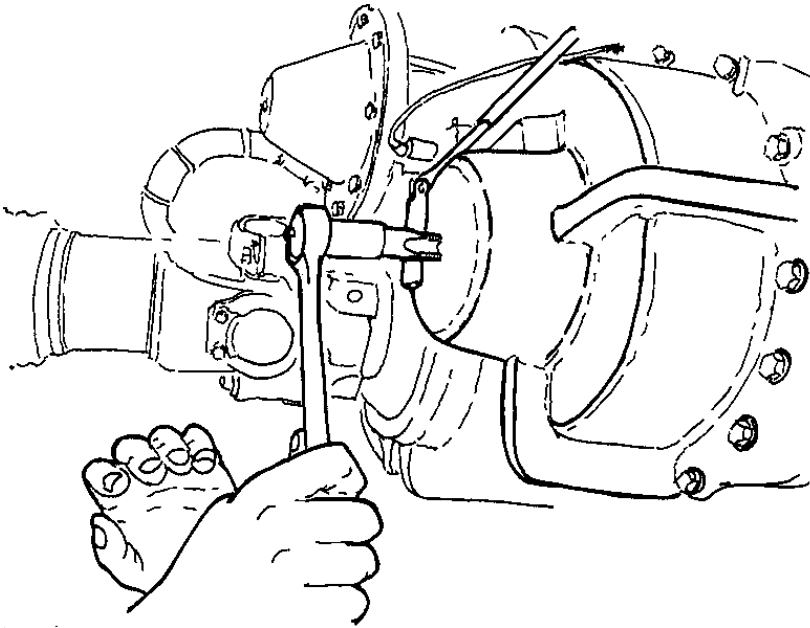


Figure 8 Tap Hole

8. Insert the magnet into the tapped hole to clean out any metal chips from inside the tapped hole (Figure 9).

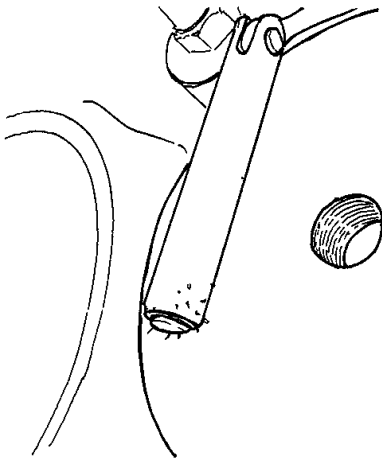


Figure 9 Clean hole With Magnet

9. Install the breather and elbow with thread sealant into the new hole. Tighten the breather to 20 to 25 Lbf-ft (27 to 34 Nm) making sure to position the breather in the vertical up position (Figure 10).

SERVICE PROCEDURE (CONT.)

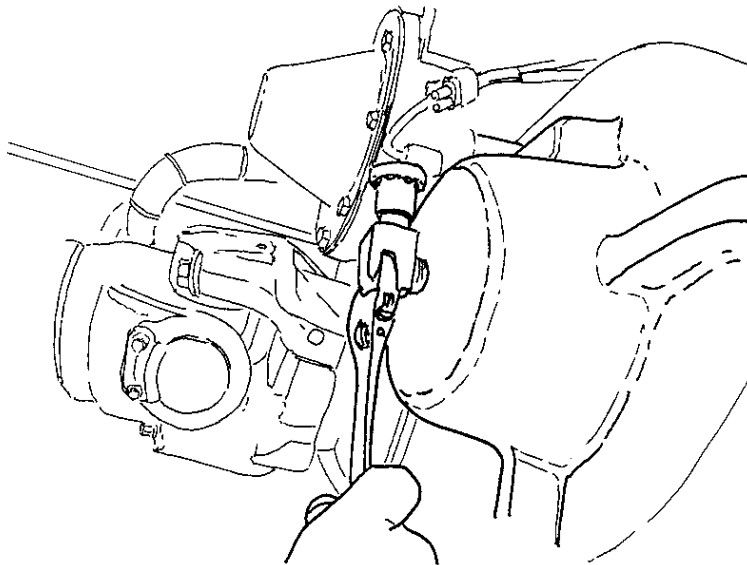


Figure 10 Install Breather

10. Install a 3/8–18 pipe plug with thread sealant into the original breather hole at the front of the transfer case. Tighten to 20 to 25 Lbf-ft (27 to 34 Nm).
11. Locate the neutral position air inlet port shown in Figure 11 and remove the pipe plug.

SERVICE PROCEDURE (CONT.)

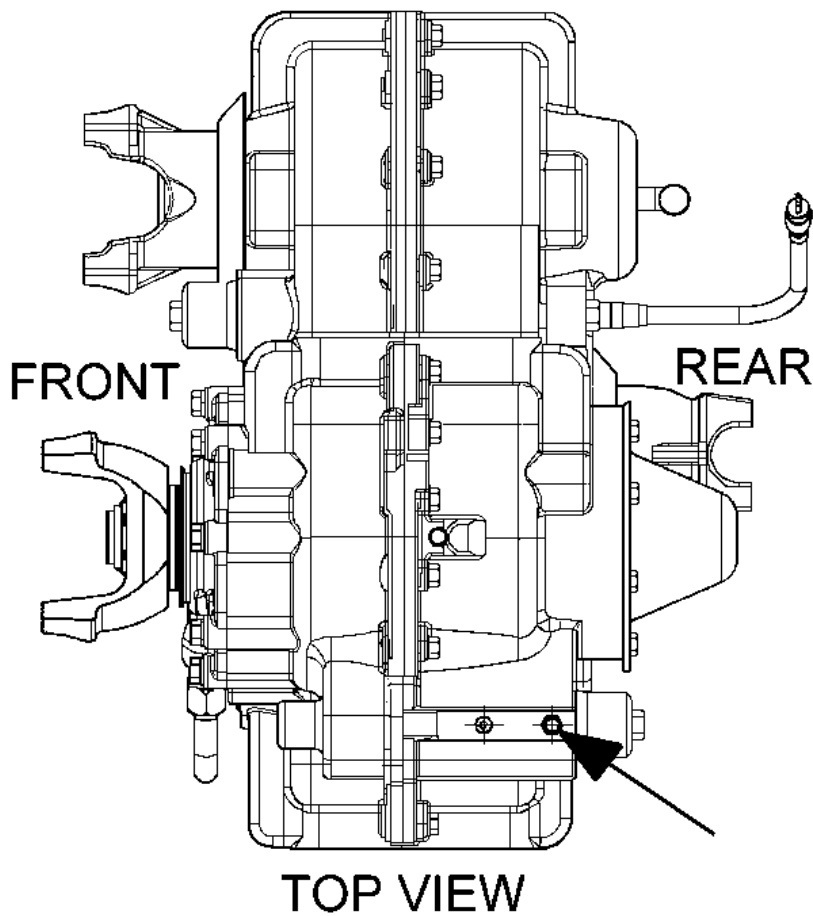


Figure 11 Top View of Transfer Case with Neutral Position Air Inlet Port Shown at Arrow

12. Install reducer bushing, Part Number 2585584C1, and breather, Part Number 2585583C1, with thread sealant. Tighten the reducer bushing to 15 to 20 Lbf-ft (20 to 27Nm) and the breather to 5 to 7 Lbf-ft (7 to 9 Nm).

CAUTION – Do not use lubricants with EP additives as damage to the transfer case may occur.

13. Remove the fill plug and check the oil level to the bottom edge of the fill hole. Add 50W synthetic oil if needed.
14. Install and tighten the fill plug to 30 to 35 Lbf-ft (41 to 47 Nm).
15. Road test the vehicle and check the transfer case leaks.

Operation number must appear on all claims.

Table 2 Labor Information

Operation No.	Description	Time
A40-02907-1	Relocate Breather to Rear of Transfer Case and Install Breather in Neutral Position Air Inlet Port	1.1 Hr.

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-02907.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-02907 activity must be submitted by December 31, 2003 or within the normal warranty period for the vehicle, if after December 31, 2003.

GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—	NOUN Leave blank	C (CAUSE) Enter either 1, 2, 3. (see below)	WARRANTY (Warranty Code) Enter 40.	TYPE PART Enter P for type part causing failure.	PAD Enter 100
		1. Inspected (No repair required).			
		2. Inspected and repaired.			
		3. Defective part from parts stock.			

Distribution: All except J-81

Reproduction: Not required.

Figure 12