SUBARU®

NUMBER 16-47-91

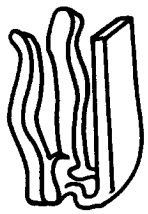
SERVICE BULLETIN

APPLICABILITY ALL LEGACY MODELS EQUIPPED WITH 4EAT

DATE 05-28-91

SUBJECT: MANUAL VALVE STOPPER RETROFIT

Should you encounter a 4EAT equipped Legacy that exhibits a resistance or possibly binds when shifting from manual 2 or 1 range, towards park position, a manual valve stopper or possibly a modified manual valve lever may need to be installed. These parts have been incorporated in production since 11/89, starting with Transmission Number 135220. See Figures 1 and 2 below.



Manual Valve Stopper (Newly Modified)
P.N. 31925AA000

Figure 1

Manual Valve Lever (Modified)
P.N. 31935AA012

Length "A" has been reduced from 12.2mm to 12.mm in order to provide more clearance for the installation of the manual valve stopper.

Figure 2

Observe the following procedures if the vehicle was produced prior to modification.

1. Ensure that the shift lever, shift lock mechanism, cable and all related parts are free from damage and operate normally. If correct, refer to the following diagnosis chart.

2. DIAGNOSIS CHART

Drain Transmission

Remove Transmission Oil Pan

Try to install manual valve stopper P/N 31925AA000 between lever and manual valve. See Figure 3 for illustration.

Stopper cannot be installed due to limited space between lever and valve.

Replace manual valve lever with modified P/N 31935AA012.

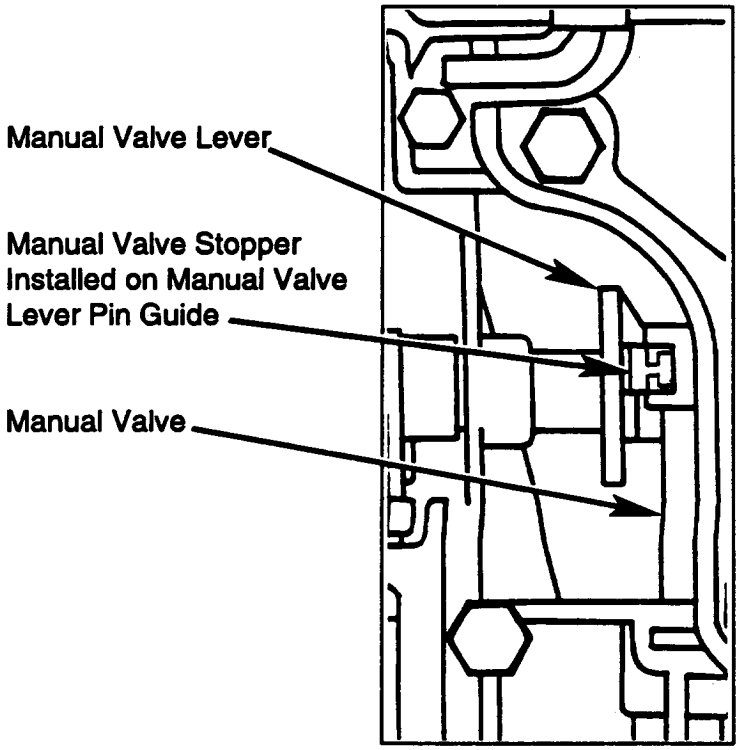
Stopper can be installed and there is some freeplay between stopper and manual valve.

Refer to Figure 4 for checking proper freeplay.

Reinstall oil pan.

Refill transmission to proper level using Dexron II.

Confirm proper operation of shift linkage and transmission by moving shift lever through each position and road test the vehicle.



Bottom view of manual valve and lever after modification

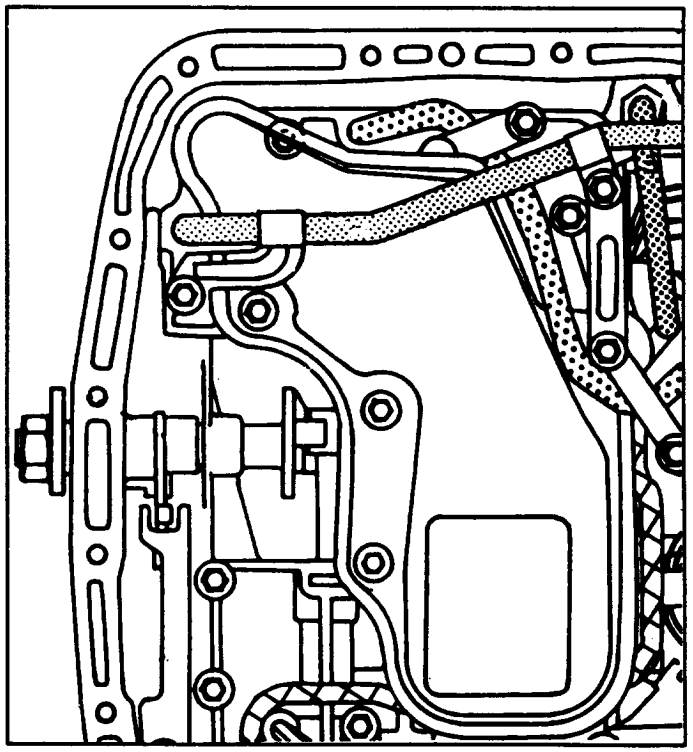
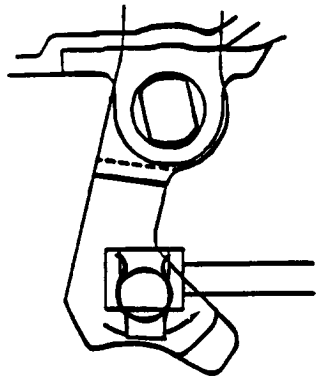


Figure 3



Ensure that at least enough clearance exists between stopper and manual valve to rotate the stopper on the lever guide pin approximately 1-2mm.

Figure 4

Checking Manual Valve Stopper Freeplay

NOTE: IF THERE IS NO PLAY BETWEEN STOPPER AND MANUAL VALVE, IT MAY CAUSE PREMATURE WEAR OR BINDING OF MANUAL VALVE.

FLAT RATE INFORMATION

The following may be used if the vehicle is within the warranty period.

ITEM DESCRIPTION/ FAILURE CODE	OPERATION NUMBER	LABOR DESCRIPTIONS	LEGACY 4EAT
	B383-601	TRANS OIL PAN, GASKET AND/OR PLUG R&R	0.5 HOURS
MANUAL VALVE STOPPER MA0-48	C383-621	MANUAL VALVE STOPPER MODIFICATION (INCLUDES CLEARANCE MEASUREMENT)	0.1 HOURS
MANUAL LEVER MAZ-48	C383-885	MANUAL LEVER R&R (INCLUDES R&R VALVE BODY ASSEMBLY)	1.3 HOURS

Please use Operation Numbers B383-601 and C383-621 when claiming Manual Valve Stopper modification only. Use all 3 Operation Numbers listed above, if both Manual Stopper and Lever need to be installed.