



Technical Service Information

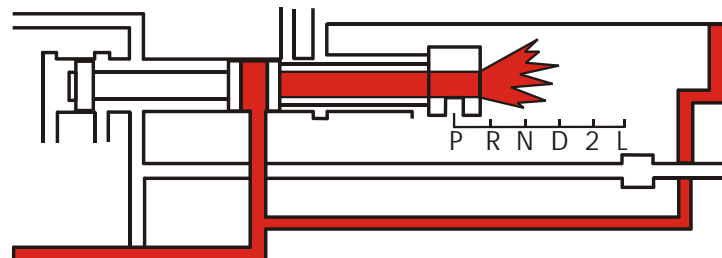
MITSUBISHI 4 SPEED UNITS

NO CONVERTER FILL/PREMATURE PUMP BUSHING FAILURE

COMPLAINT: The converter will not fill with fluid after overhaul possibly causing premature failure of the pump bushing. Signs of lubrication failure may also be present.

CAUSE: One cause may be that the manual valve is designed to exhaust line pressure while in the Park range through a passage formed inside the valve (See Figure 1). The passage is approximately .250" in diameter which allows for a rather large exhaust to occur. This large exhaust drops line pressure low enough to prevent converter fill and stops all cooler flow. With a lack of fluid flowing into the converter and a loss of front lubrication, the bushing and converter neck may be damaged before converter fill and cooler flow is obtained.

CORRECTION: Pre-fill the converter with as much fluid as possible. Also lube the pump bushing generously. Always fill the unit with the selector lever in the Neutral range, **NOT** in Park. To allow for cooler flow to be present while in the Park range, an **orificed** cup plug supplied by **Sonnax** under part number 41750-01, with a .062" orifice can be driven into the end of the manual valve, as shown in Figure 2. This will allow for full converter charge as well as cooler flow in Park.

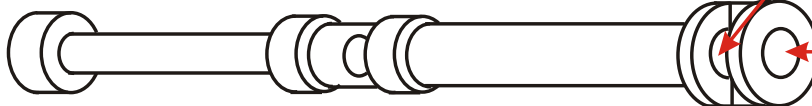


Manual Valve Exhausting Line While In Park

Figure 1

*Compliments of
Bill Kleckner from
Certified Transmissions*

**Drive Orificed Cup Plug
Through To Inside Passage**



**Place Orificed
Cup Plug Here**

Drive Orificed Cup Plug Into The End Of The Manual Valve

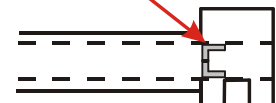


Figure 2