



Technical Service Information

THM 4L60 (700-R4) PUMP MODIFICATION TO ALLOW INTERCHANGE

In June of 1984, all models of the 1984 THM 700-R4 transmissions were built using a new pump assembly. This pump change is also used on all 1985 700-R4 transmission models. This new pump assembly has a dam added to the line pressure passage, and the casting around the perimeter of the pump was made thicker so as to reduce fluid leakage and cross leaks between the pump cover and pump body (See "A" Figure 1). The cross leaks were sometimes bad enough to create a "moaning" sound from the pump area.

It has been said that the early pump body must not be used with the late style pump cover, as low line pressures would occur. With one small modification we CAN use the early pump body with the late style pump cover. Here is how, and why.

In the line pressure passage of the previous pump cover casting they installed a air bleed in the form of an orificed cup plug (See "B" Figure 1). In the line pressure passage of the new pump cover, they installed the air bleed just inside of the added dam (See "C" Figure 1).

With the addition of the dam, the area just outside the dam became a void, so there was no longer a need to install the orificed cup plug, and if you used it that way with the early pump body, you would indeed have a loss of line pressure.

If you will tap the hole (See "D" Figure 1) with the appropriate size tap and install a recessed allen pipe plug with lot-tite, the late pump cover can be used very successfully with the early style pump body and you save yourself a healthy piece of change. Try it, it works.

The late casting numbers are as follows:

Late Pump Cover	8654304
Late Pump Body	8654303

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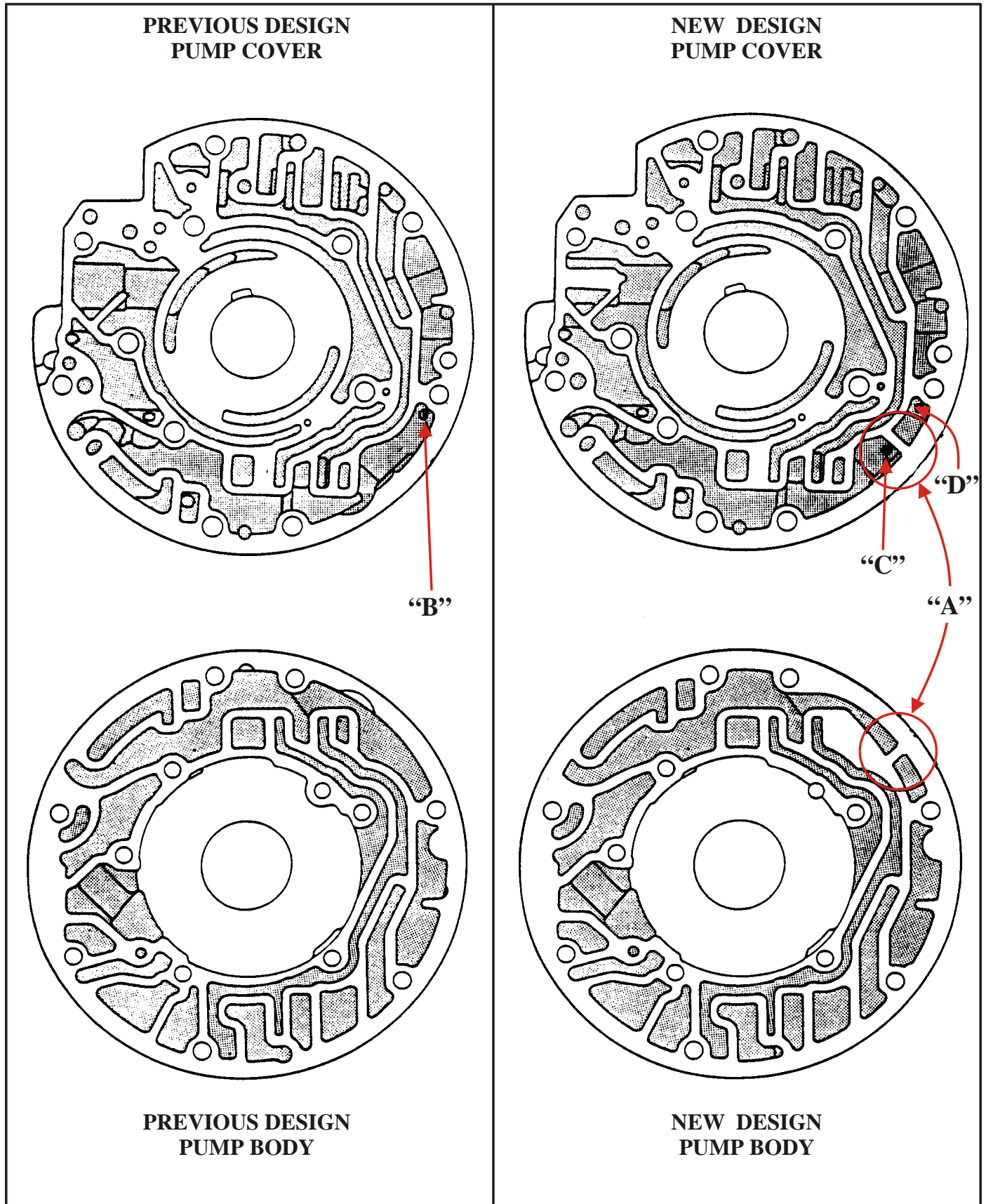


Figure 1