



Technical Service Information

THM 4L60-E

TCC PWM SOLENOID ADDED IN 1995 NEW PUMP ASSEMBLY FOR 1995

CHANGE: Beginning at the start of production for 1995 models, all THM 4L60-E transmissions were built with an added "PWM" solenoid on the valve body to control TCC apply feel. The new TCC PWM Solenoid ramps the torque converter clutch on and off, as in most other GM units.

REASON: Improved pleaseability of torque converter clutch apply and release.

PARTS AFFECTED:

(1) VALVE BODY CASTING - 1995 models are now machined to accept the added TCC PWM Solenoid, as shown in Figure 1. The added TCC PWM Solenoid is exactly the same and will interchange with the 3-2 downshift solenoid (See Figure 1).

(2) VALVE BODY SPACER PLATE - There were two holes added in the spacer plate to accommodate the added TCC PWM Solenoid as shown in Figure 2. The 1995 spacer plate can be identified with the first letter of the two digit code being either an "M" or "N", as shown in Figure 2. The first letter of the two digit code on the 1994 spacer plate will be "K" or "L". The 1993 spacer plate first letter will be "I". Refer to Figure 2 for location of the I.D. code stamped into the spacer plate

(3) OIL PUMP BODY - There were changes in the worm track configuration on the new design pump body to accommodate the added TCC PWM solenoid. The pump body can be easily identified with "PWM" cast into the pump body, in the location shown in Figure 4. Refer to Figure 3 for the differences in the worm track area, which we have shaded for easy reference.

(4) OIL PUMP COVER (STATOR) - There were changes in the worm track configuration on the new design pump cover to accommodate the added TCC PWM solenoid. The pump cover can be easily identified with "PWM" cast into the pump cover, in the location shown in Figure 6. Refer to Figure 5 for the differences in the worm track area, which we have shaded for easy reference.

(5) TURBINE SHAFT BALL CAPSULE - Change in orifice sizes to accommodate the added TCC PWM solenoid, and calibrate converter release oil to the new TCC PWM solenoid.

INTERCHANGEABILITY:

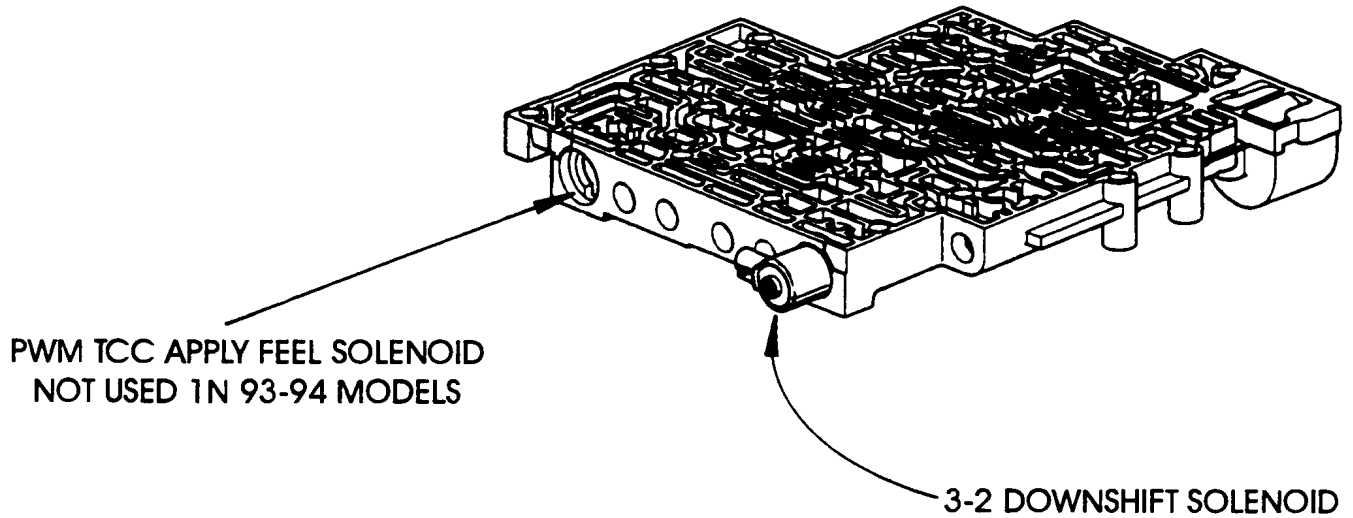
None of the parts listed above will interchange with one another, nor will any of these parts back service any 1993-1994 model transmissions.

SERVICE INFORMATION:

TCC PWM Solenoid (95-96 Models)	8683 187
Turbine Shaft Ball Capsule (Bronze - 298mm Converter)	24201472
Turbine Shaft Ball Capsule (Silver - 245mm Converter)	8654326

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**1993-1994 VALVE BODY
WITH 3-2 DOWNSHIFT SOLENOID
(REQUIRES "NON PWM" PUMP ASSEMBLY)**



**1995 VALVE BODY
WITH 3-2 DOWNSHIFT SOLENOID
AND TCC APPLY FEEL SOLENOID
(REQUIRES "PWM" PUMP ASSEMBLY)**

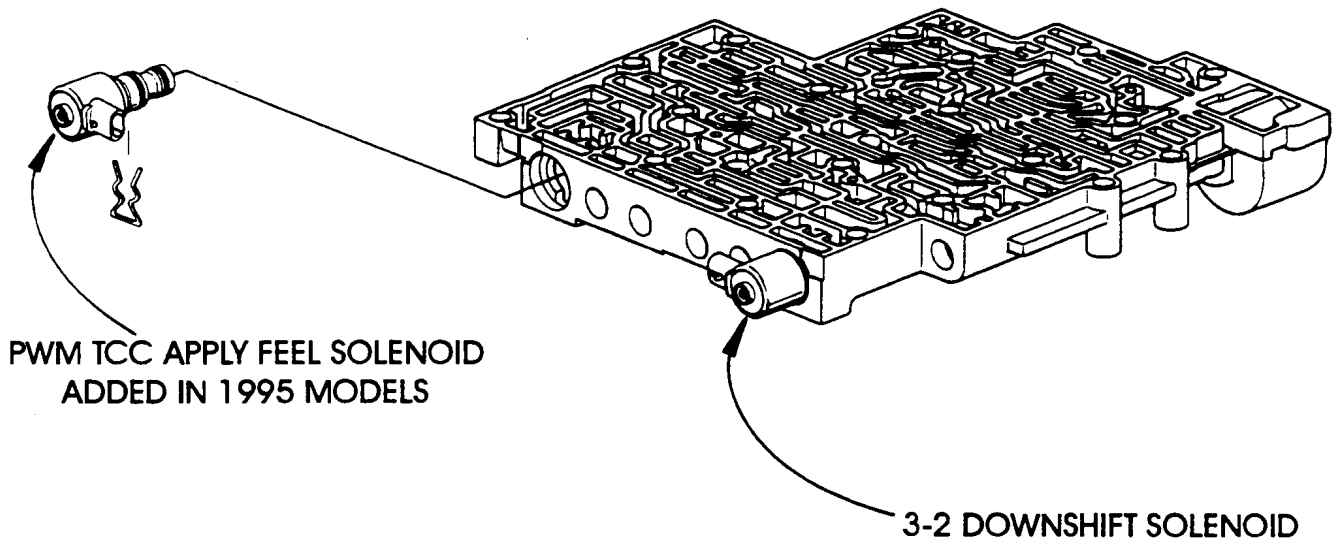


Figure 1

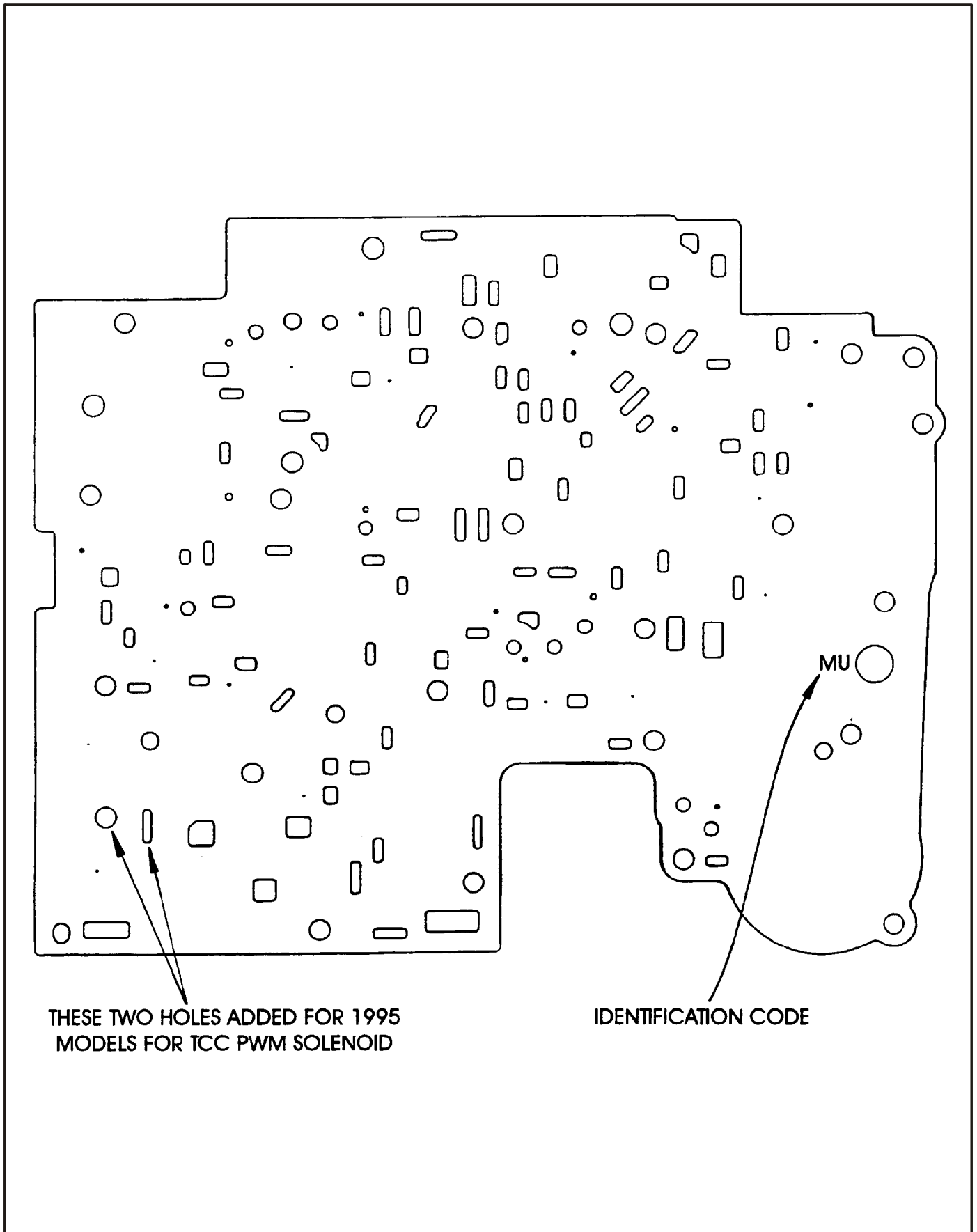
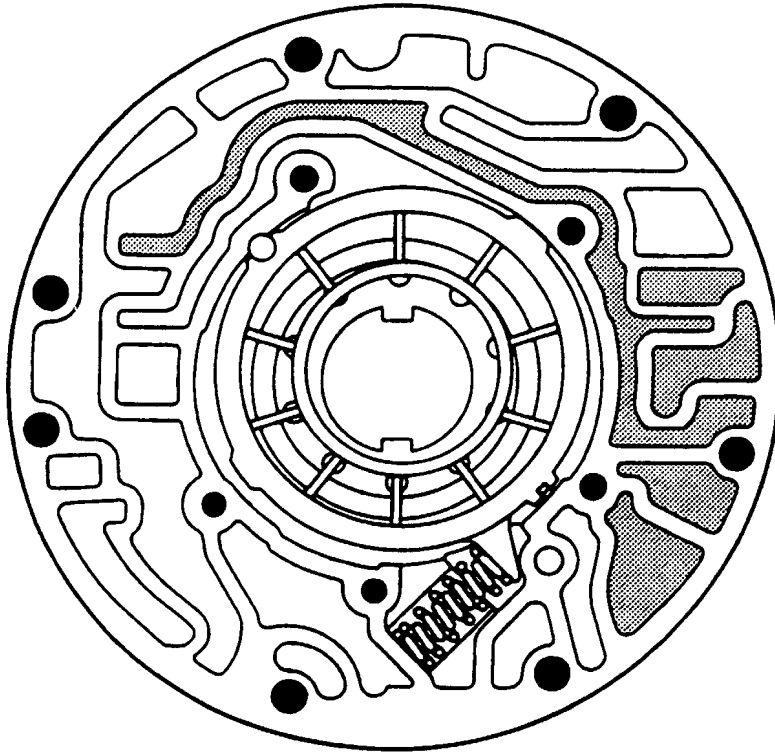


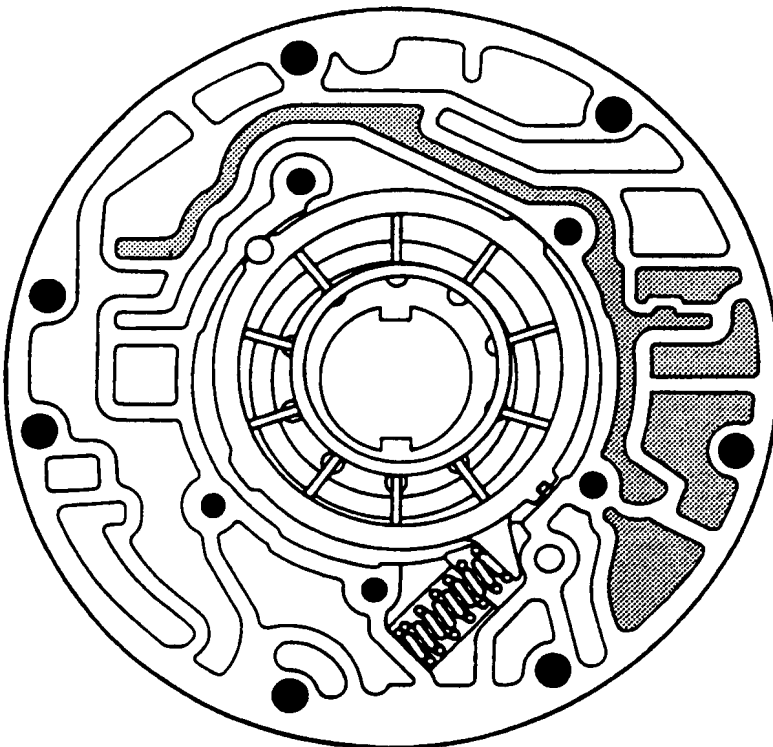
Figure 2

1993-1994 "NON PWM" PUMP BODY ASSEMBLY



SHADED AREAS ARE DIFFERENT
BETWEEN THE "PWM" AND THE
NON PWM PUMP BODY

1995 "PWM" PUMP BODY ASSEMBLY



SHADED AREAS ARE DIFFERENT
BETWEEN THE "PWM" AND THE
NON PWM PUMP BODY

Figure 3

1995 "PWM" PUMP BODY IDENTIFICATION

"PWM" IS CAST INTO
THE PUMP BODY AND
LOCATED HERE

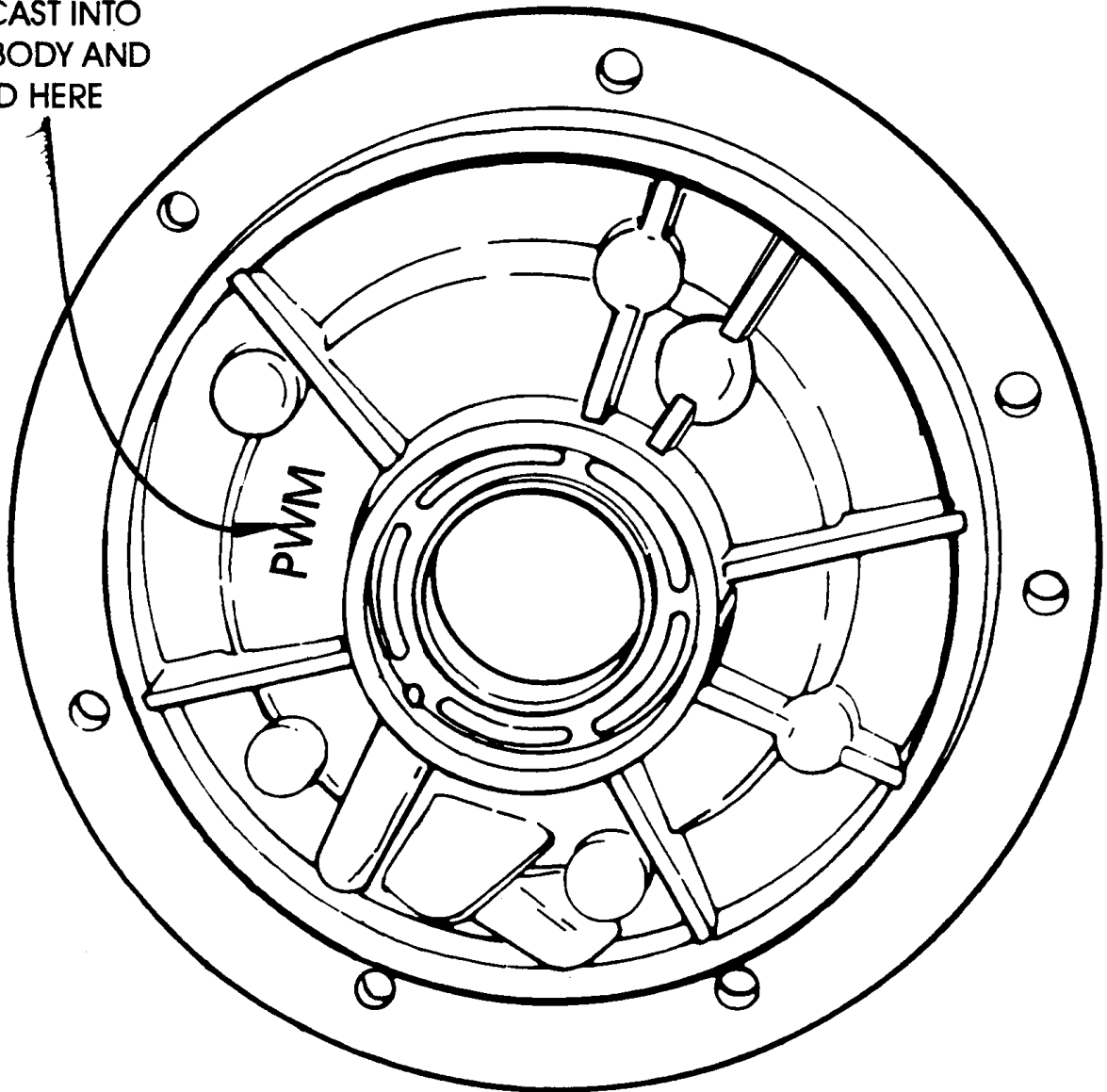
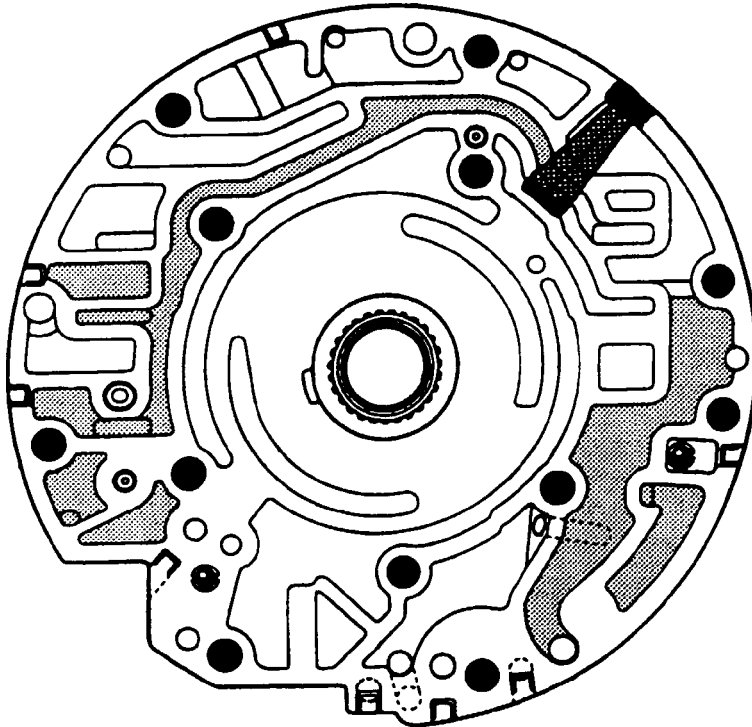


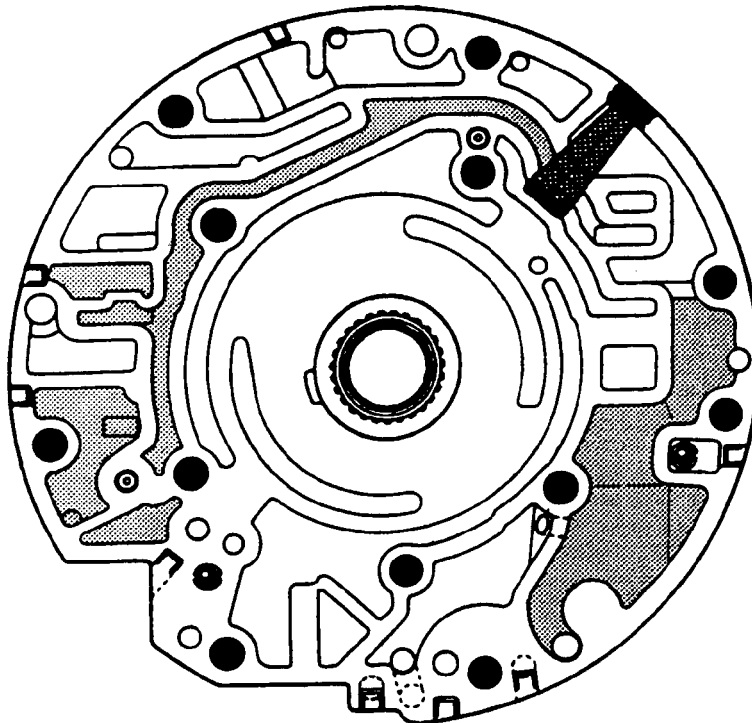
Figure 4

1993-1994 "NON PWM" PUMP COVER ASSEMBLY



SHADED AREAS ARE DIFFERENT
BETWEEN THE "PWM" PUMP COVER
AND THE NON PWM PUMP COVER

1995-1996 "PWM" PUMP COVER ASSEMBLY



SHADED AREAS ARE DIFFERENT
BETWEEN THE "PWM" PUMP COVER
AND THE NON PWM PUMP COVER

Figure 5

**1995-1996 "PWM" PUMP COVER
IDENTIFICATION**

"PWM" CAST INTO THE PUMP
COVER AND LOCATED HERE

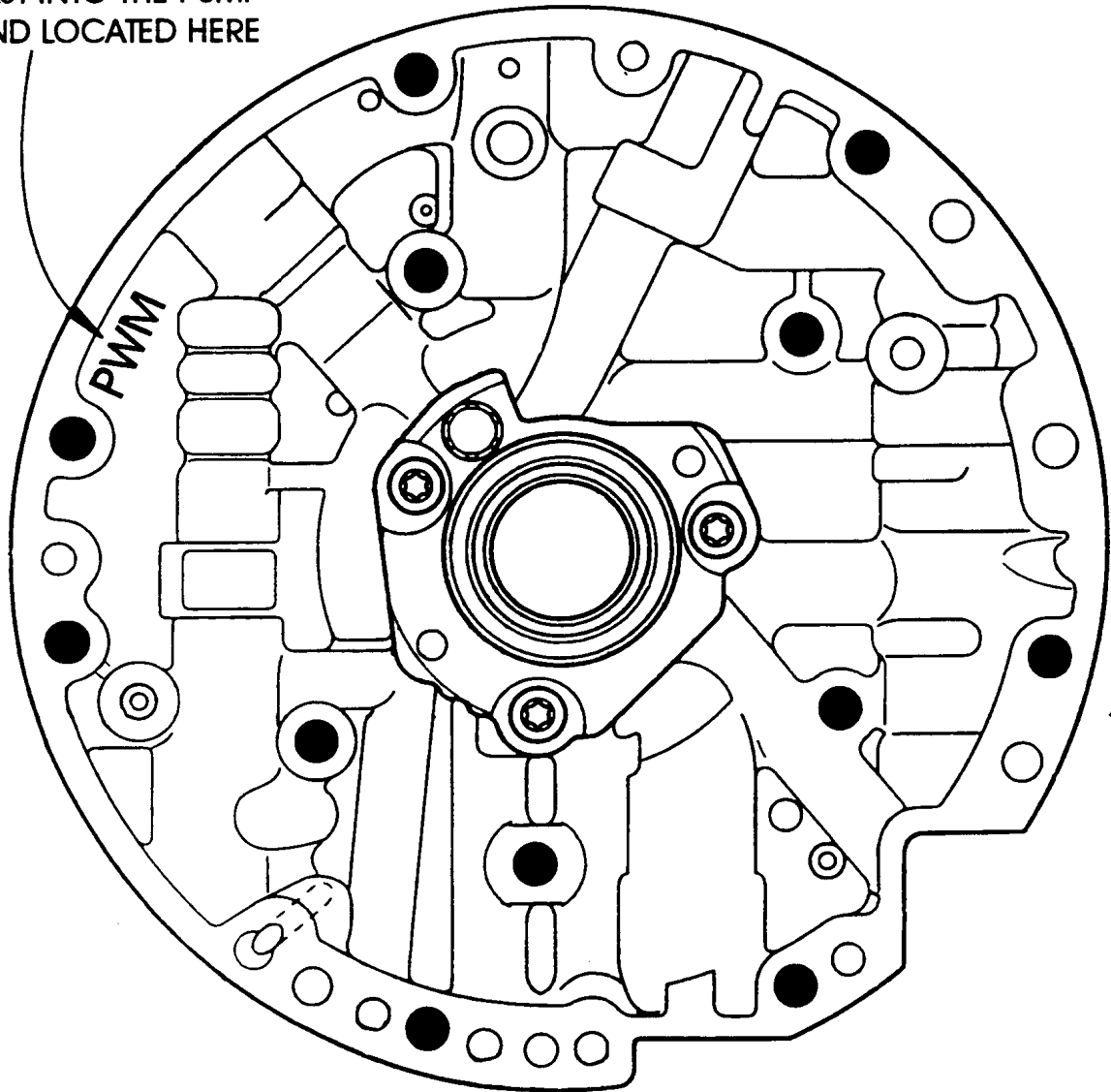


Figure 6