



# Technical Service Information

## **THM 4L60-E NEW DESIGN SHIFT SOLENOIDS, EPC SOLENOID AND TCC/PWM SOLENOID**

**CHANGE:** Beginning at the start of production for all 1998 models, the THM 4L60-E transmissions were built with a new design for both Shift Solenoids, a new design EPC Solenoid, and a new design TCC/PWM Solenoid.

**REASON:** Improved shift quality and durability., and eliminates some mis-assembly concerns.

### **PARTS AFFECTED:**

- (1) **TCC/PWM SOLENOID** - Changes from a metal stem to a "Gray Plastic" stem as shown in Figure 1, and the solenoid connector is also Gray in color to help distinguish it from the 3-2 Downshift (ON-OFF) Solenoid. These two solenoids are now manufactured identical, with the exact same dimensions, except for the difference in color of the solenoid stem and solenoid connector. The wide groove to accept the internal harness connector is also on opposite sides of the solenoid connector to prevent the solenoids from being accidentally installed in the wrong models, as shown in Figure 1.
- (2) **SHIFT SOLENOIDS "A" AND "B"** - One groove has been removed from the stem of the Shift Solenoids to prevent mis-assembly concerns, as the retaining clip can be installed in the previous design solenoids, which means the solenoid is not all the way into it's bore. Refer to Figure 2.
- (3) **PRESSURE CONTROL SOLENOID** - New design has larger micron screens in the solenoid to greatly improve cold weather operation. This will allow the colder oil through the screens easier. Refer to Figure 3.

### **INTERCHANGEABILITY:**

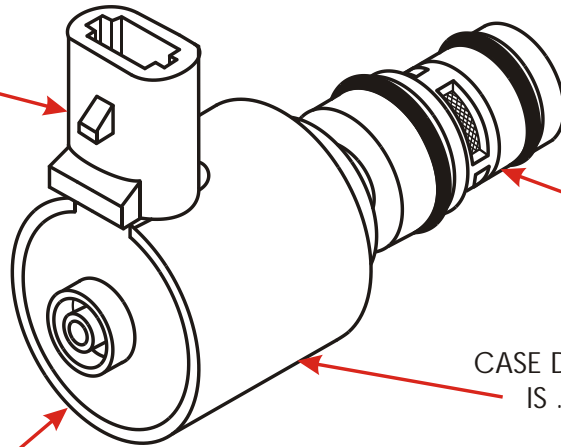
- (1) **TCC/PWM SOLENOID** - New design will retro-fit back to 1995 models.
- (2) **SHIFT SOLENOIDS "A" AND "B"** - New design will retro-fit back to all previous models.
- (3) **PRESSURE CONTROL SOLENOID** - New design will retro-fit back to all previous models.

### **SERVICE INFORMATION:**

3-2 Downshift Solenoid (PWM for 95 Models) .....	8683187
3-2 Downshift Solenoid (On-Off for 96-97 Models).....	24209121
TCC/PWM Solenoid (For 95-97 Models) .....	24207054
Shift Solenoids "A" and "B" (All Models) .....	10478131

## 3-2 DOWNSHIFT SOLENOID AND TCC/PWM SOLENOID CHANGES

"WHITE"  
CONNECTOR

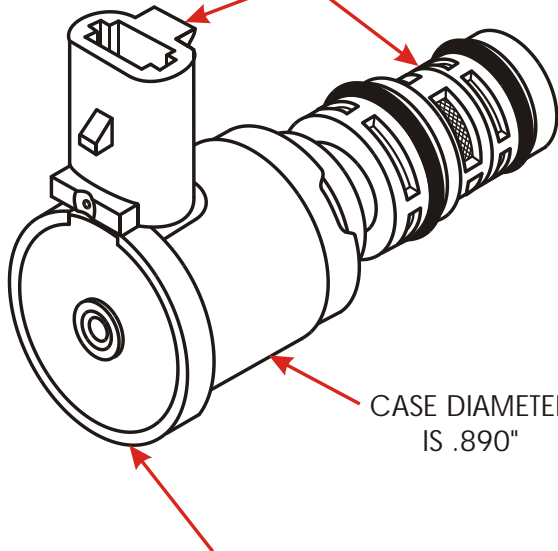


METAL STEM

CASE DIAMETER  
IS .990"

1993-1995 3-2 DOWNSHIFT (PWM) SOLENOID  
AND 1995-1996 TCC/PWM SOLENOID  
PART NUMBER 8683187  
10-15 OHMS RESISTANCE

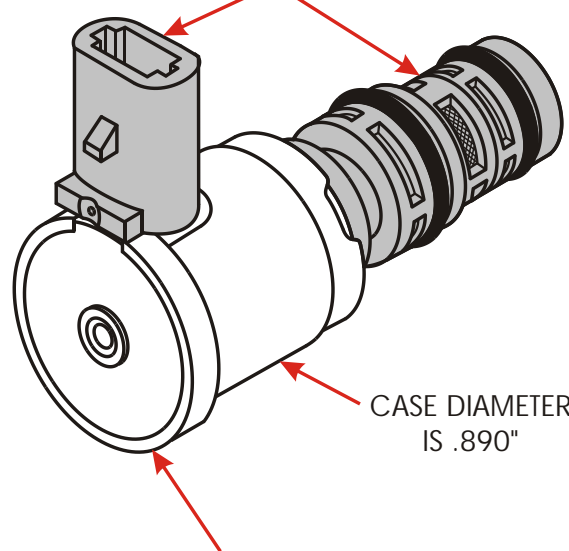
"WHITE PLASTIC" STEM  
AND CONNECTOR



CASE DIAMETER  
IS .890"

1996 AND 1997  
3-2 DOWNSHIFT (ON/OFF) SOLENOID  
PART NUMBER 24209121  
20-31 OHMS RESISTANCE

"GRAY PLASTIC" STEM  
AND CONNECTOR

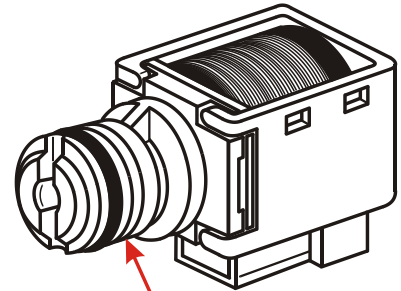
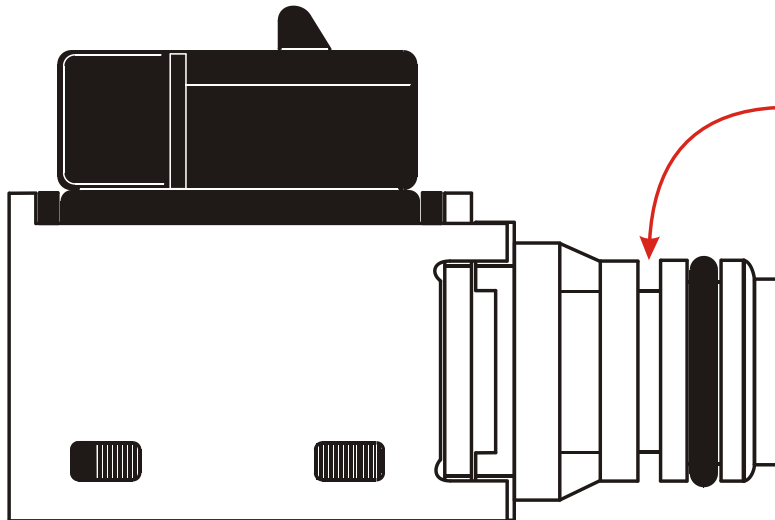


CASE DIAMETER  
IS .890"

1997 AND LATER  
TCC/PWM SOLENOID  
PART NUMBER 24207054  
10-15 OHMS RESISTANCE

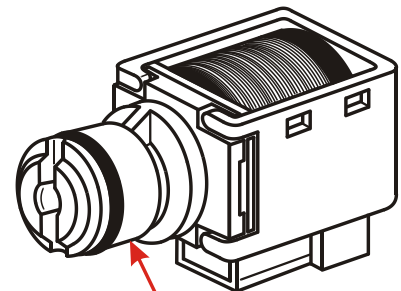
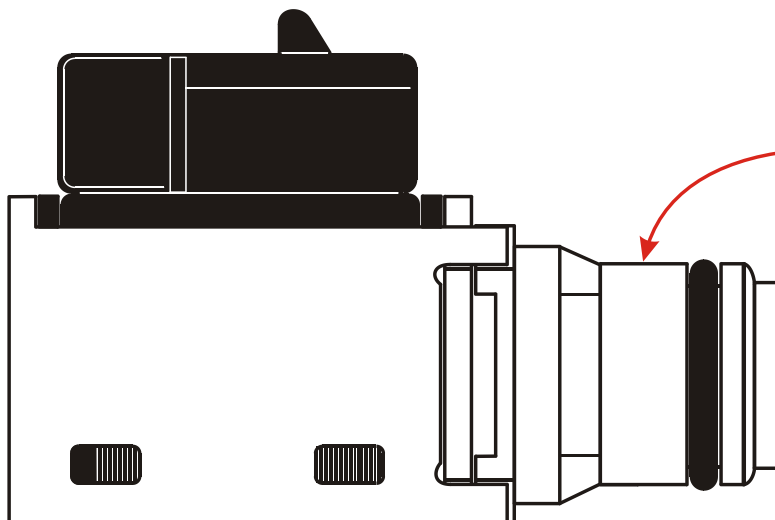
Figure 1

## THM 4L60-E SHIFT SOLENOIDS "A" AND "B" 1993-1996 MODELS



THIS GROOVE REMOVED  
TO PREVENT MIS-ASSEMBLY,  
AS RETAINING CLIP CAN BE  
INSTALLED IN THIS GROOVE

## THM 4L60-E SHIFT SOLENOIDS "A" AND "B" 1997 AND LATER MODELS PART NO. 10478131



GROOVE REMOVED  
AND WILL RETRO-FIT  
BACK TO ALL MODELS

Figure 2

## NEW ELECTRONIC PRESSURE CONTROL SOLENOID PART NUMBER 24209276

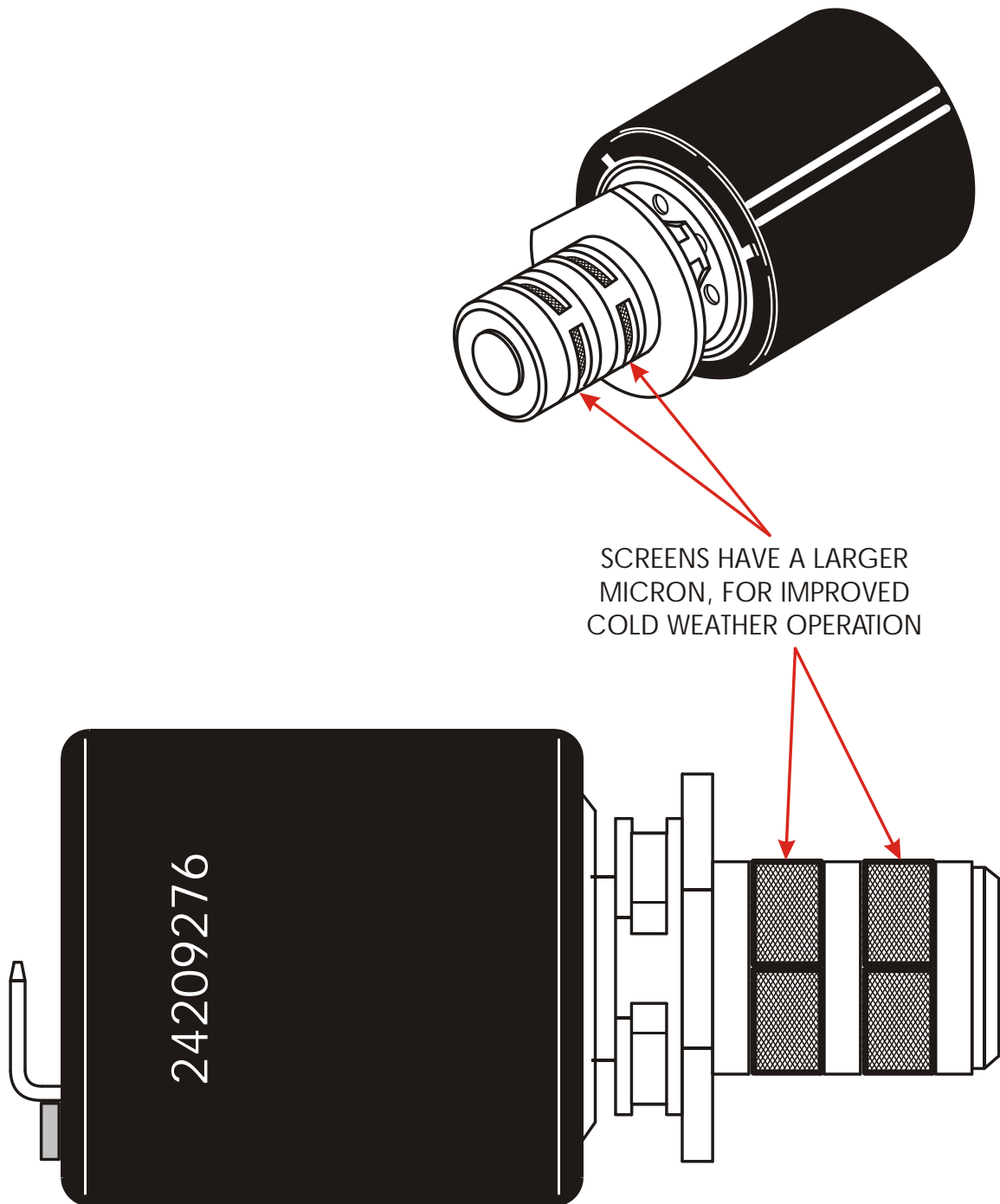


Figure 3