

Technical Service Information

FORD AX4S/AX4N

TCC SOLENOID CHANGE AND SHIFT SOLENOID INTERCHANGE (UPDATED INFORMATION)

CHANGE: At the start of production for the 1997 model year, the Lincoln Continental equipped with the AX4N transaxle, received a new design and higher resistance, Modulated Lock-Up Solenoid. At the start of production for the 1998 model year, the Taurus and Sable equipped with the AX4S transaxle, also received this new design Modulated Lock-Up Solenoid (MLUS).

REASON: Much improved converter clutch application and durability.

PARTS AFFECTED:

(1) MODULATED LOCK-UP SOLENOID - The new design MLUS is round, like the previous design solenoid, but has a *blue* connector instead of the previous white, and a resistance value of *13-24 Ohms*, instead of the previous 0.98-1.6 Ohms resistance (See Figure 1).

INTERCHANGEABILITY:

The O.E. Manufacturer first advised not to interchange the solenoids, but has since backed off of that statement, as the only MLUS now available is the new design with the blue connector and higher resistance. ATSG has seen *no problems* with installing the new design MLUS on the previous model transaxles, *except* 1991 Taurus and Sable which are non-modulated models. Use the chart in Figure 2 to check the resistance of the MLUS through the case connector to determine which solenoid is in the transaxle.

SPECIAL NOTE:

Shift Solenoids - Shift Solenoids for the AX4S transaxle and AX4N transaxle are identical in every dimension and every respect **except** one. Shift Solenoids for the **AX4S have a diode** in the solenoid, and Shift Solenoids for the **AX4N do not have a diode** in the solenoid, as the vehicles equipped with the AX4N have the diodes in the processor.

This means that the AX4S Shift Solenoids *can be used* in AX4N transaxles, but AX4N Shift Solenoids *cannot be used* in AX4S transaxles, as there would be no diode protection.

Most suppliers stock only the AX4S shift solenoid, as it works well on both.

SERVICE INFORMATION:

| Modulated TCC Solenoid with Blue Connector | F7OZ-7G136-AA |
|---|---------------|
| Modulated TCC Solenoid with White Connector | F3DZ-7G136-AA |
| AX4S Transaxle Shift Solenoids | F1DZ-7G484-A |
| AX4N Transaxle Shift Solenoids | F3DZ-7G484-AA |

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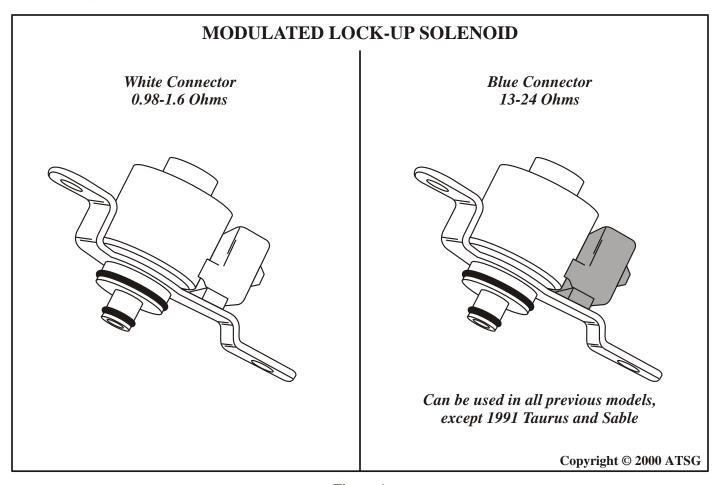


Figure 1

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Technical Service Information

| SOLENOID | SOLENOID RESISTANCE (OHMS) | |
|------------|----------------------------|--|
| SS1 | 15 - 25 | |
| SS2 | 15 - 25 | |
| SS3 | 15 - 25 | |
| EARLY MLUS | .98 - 1.6 | |
| LATE MLUS | 13-24 | |
| EPC | 3.23-5.50 | |

| °C | °F | TFT SENSOR (OHMS) |
|---------|---------|-------------------|
| 0-20 | 32-58 | 100k - 37k |
| 21-40 | 59-104 | 37k - 16k |
| 41-70 | 105-158 | 16k - 5k |
| 71-90 | 159-194 | 5k - 2.7k |
| 91-110 | 195-230 | 2.7k - 1.5k |
| 111-130 | 231-266 | 1.5k - 0.8k |
| 131-150 | 267-302 | 0.8k - 0.5k |

