



TECHNICAL SERVICE BULLETIN

	Group
	40 - TRANSAXLE
	Number
	03-40-003
Subject	Date
AUTOMATIC TRANSAXLE CONTROL MODULE ADAPTIVE LEARNING	02-2003
	Model
	All Models 0

This TSB supersedes TSB# 01-40-002 to include additional information.

DESCRIPTION:

The transaxle control module (TCM) internal logic allows the TCM to compensate for mechanical tolerance changes which may occur during the life of the transaxle due to normal wear. If battery power is disconnected from the TCM, the adaptive learning is cancelled.

Whenever battery power is disconnected from the TCM or a new transaxle is installed, follow the procedure below to restore adaptive learning:

NOTE

Transaxle shift quality should not be evaluated until adaptive learning has been completed.

TCM logic was revised to allow adaptive learning to occur at a lower temperature on the dates shown below.

NOTE

Adaptive learning does not begin until the ATF is above the temperature shown below:

MODEL	ADAPTIVE LEARNING BEGINS AT:	
	PREVIOUS	NEW
	122°F (50°C)	68°F (20°C)
Accent	All	
Elantra	-11/21/01	11/21/01-
Tiburon	1997-2001 MY	2003 MY
Sonata	-11/30/01	11/30/01-
Santa Fe 2.4L	2001-02 MY	2003 MY
Santa Fe 2.7L	-1/17/02	1/17/02-
Santa Fe 3.5L		All
XG300	All	
XG350		All

ADAPTIVE LEARNING PROCEDURE:

1. Attach a Hi-Scan Pro and select "Automatic Transaxle" menu, "Current Data" menu and "Trans Temp. Sensor".
2. Drive the vehicle until the ATF temperature is above the temperature shown on page 1.
3. Accelerate the vehicle through several 1-2-3-4 upshifts at small throttle openings (approximately 25-30% TPS) until shift flare and shift shock no longer occur.

NOTE

Adaptive learning for the 2-3 shift takes longer than for the 1-2, or 3-4 shifts.

