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Service Fast Learn Adapts

Service Fast Learn Adapts is a procedure for 6 speed automatic transmissions in which a series of tests are run to allow the transmission control module (TCM) to learn individual clutch characteristics. Once the clutch data is learned, Service Fast Learn Adapts translates it into the adaptive data cells, which the TCM uses for clutch control during shifts. The scan tool provides initiation of the Service Fast Learn Adapts procedure. This procedure is to be used following transmission repair.

The Service Fast Learn Adapts procedure must be performed when one of the following repairs have been made to the vehicle. Failure to perform the procedure after one of the following repairs may result in poor transmission performance, as well as transmission DTCs being set:

- Transmission internal service/overhaul
- · Valve body repair or replacement
- · Control solenoid (w/body and TCM) valve assembly replacement
- TCM software/calibration update
- · Any service in response to a shift quality concern

Important: Ensure the following conditions are met before performing the Service Fast Learn Adapts procedure:

- · Drive wheels are blocked
- · Parking brake is applied
- · Service brake is applied
- Zero percent throttle and no external engine RPM control
- Transmission fluid temperature (TFT) is between 70-100°C (158-212°F)
- Transmission gear selector has been cycled from Park to Reverse 3 times in order to purge air from the reverse clutches.
- Use the scan tool to navigate to Service Fast Learn Adapts by selecting the following commands:
 - 1.1. F1: Transmission Control Module
 - 1.2. F5: Module Setup
 - 1.3. FO: Fast Learn Adapts Process

Important: If at any time during the procedure, required conditions are not met, Service Fast Learn Adapts may abort and the process may need to be started again from the beginning.

- Use the scan tool to perform the Service Fast Learn Adapts procedure. As the procedure is being performed, the scan tool data display will provide operator instructions. Follow the scan tool instructions as required.
- Once the procedure is complete, shut OFF the engine and power down the TCM. You will lose communication to the scan tool.
- Restart the engine. This will complete the Service Fast Learn Adapts procedure.

Important: When the Service Fast Learn Adapts procedure is completed, the transmission will remain in a neutral officeneral Motors Corporation. All rights reserved.

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Troubleshooting

If the Service Fast Learn Adapts will not run and the above stated conditions have been met, ensure the following:

- TFT is between 70-100°C (158-212°F).
- Brakes and brake switch are functioning properly.
- No active DTCs.
- Closed throttle and engine RPM increases above 1500 RPM while at entrance of the test.
- Park/Neutral position switch is properly adjusted and functioning.
- Line pressure control is able to provide 1000 kPa and is within specifications.
- Vehicle is not moving, or vibrating excessively.
- Clutches are properly assembled.