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## 4EAT Transmission

Automatic Transmission Diagnostic Input Signal represents an electrical check for the circuit that returns the TCM and ECM communicating diagnostic information to the ECM. This signal has no corresponding 4EAT code.

### Troubleshooting and Adjustments

#### Preliminary Inspection

Check the following:

1. Fluid level
2. ATF color
3. Road test
  - Check proper shift points
  - Engine performance
  - Correctly adjusted throttle sensor
  - Gearshift cable adjustment
  - Correct stall test results
  - Inhibitor switch connections
  - Correct pressure test results

#### Gearshift Cable Adjustment



Place the transmission in neutral with the engine "OFF". Then loosen the locking nut and the adjusting nut. Push the shift lever into forward and tighten the adjusting nut until it contacts the connecting track. Finally, secure the cable with the locking nut and double check the operation.

After adjusting the gearshift cable, verify the correct inhibitor switch position. Remove the cable from the inhibitor switch in order to perform the adjustment. The switch should be in neutral.



Then insert the special tool #W9267200 (Shaper) through the 2 holes of the switch into the depression in the switch body. Next, loosen the 2 retaining bolts and rotate the inhibitor to adjust. Finally, secure the cable and reverify the cable adjustment.

#### Stall Test

The stall test checks the operating condition of the AT clutch, the torque converter, and the engine. Perform this test in "D", "2", "1", and "Reverse".

#### Stall Test Results

Higher than normal RPM indicates one or more of the following:

- Slippage of the forward clutch
- O/R.C. not loading
- Low/No. brake oiling
- Overvalve low pressure

Lower than normal RPM indicates one or more of the following:

- Incorrect throttle adjustment
- Poor engine operation
- Torque converter water dilution

#### Time Lag Test

The time lag test checks the operation of the forward clutch, the reverse clutch, the low/reverse brake, O/R.C. 3-4, and O/W.C. 1-2.

Perform this test at operating temperature. With the engine with the A/C "OFF", confirm the engine idle speed is "N" and correct if necessary. Then shift into "D" and measure the time (seconds) to full engagement. It should take less than 1.2 seconds. Then shift into "R" and measure the time. It should take less than 1.5 seconds.

February 2001

## 4EAT Transmission

### Time Lag Results:

If the time takes longer than "N" to "D", it may indicate one or more of the following:

- Low line pressure
- Worn forward clutch
- O/R.C. problem

If the time takes longer than "N" to "R", it may indicate one or more of the following:

- Low line pressure
- Worn reverse clutch
- Worn reverse brake

### Pressure Test

Perform a pressure test when all the circuits show evidence of slippage or when the circuits show negative results from the time lag test.

This test should also be performed if there is excessive shift shock, delayed shifting, or if the vehicle is erratic.



Perform this test by connecting the pressure gauge to the "oil pump outlet" test port in order to determine the overall line pressure. (Should a particular component be indicated, perform pressure tests at its unique test port.)

Refer to the Service Manual, Sec. 3-6 (3-102) for other ports. Check for minimum and maximum values of each port.

### On Car Service Adjustments

The following can be performed on the vehicle:

- Checking/changing fluids
- Band adjustment
- Valve body servicing
- Shift linkage adjustment/replacement
- Inhibitor switch adjustment/replacement
- Harness repair/replacement
- Transfer clutch assembly (servicing/replacement)
- Speed sensors replacement

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