2000 2.2L (L43) (FFV) (Flexible Fuel Vehicle)S-pickup (includes Isuzu Hombre)4L60-ETRANSMISSIONDIAGNOSTIC PARAMETERS

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Vehicle Speed Sensor - Low input	P0502	0 RPM to 6000 RPM This DTC detects a low vehicle speed when the vehicle has a large engine speed in a drive gear range.	Output Speed < 150 rpm	Gear Range is not Park/Neutral No TPS high or low DTC's set No Map Sensor DTC's set No PSA DTC set Vacuum 25 to 60 KPA Throttle Position 20 to 50% Engine Speed 3200 to 4800 RPM	3.0 seconds Continuous	DTC Type B
Vehicle Speed Sensor - Intermittent	P0503	0 RPM to 6000 RPM This DTC detects an unrealistic large drop in vehicle speed.	In P/N: Output Speed drop > 8000 RPM Not P/N: Output Speed drop > 1300 RPM	 Time since last Gear Range Change > 6 Seconds Engine Speed > 450 rpm for 5 seconds No Output Speed rise > 600 rpm within 6 seconds No PSA DTC set 	In park or neutral for 409 seconds. Not in park or neutral for 3 seconds.	DTC Type B
TCC Enable Solenoid Electrical	P0740	0V to 12V This DTC detects a continuous open or short to ground in the TCC circuit or the TCC solenoid	Fail Counter > 43 Counts out of 50 Total Counts	- System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type B
TCC System Stuck ON	P0742	This DTC detects low torque converter slip when the TCC is commanded off.	TCC Slip: -20 to +30 RPM for > 5.0 seconds Slip Counter >= 2	 Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff No Range change within 6 sec. No MAP low and high DTC set No TP high or low sensor DTC's No TCC Enable Sol. DTC's No TCC Control Sol. DTC's No PSA DTC set Eng Torque: 40 to 400 ft-lbs Vacuum: 0 to 105 kPa Commanded Gear is not 1st Gear Range is D4 Throttle Position: 15% to 60% TCC is commanded off Engine Speed: 1000 to 3000 rpm Speed Ratio: 0.65 to 1.25 Vehicle Speed: 20 to 70 mph 	5.0 seconds Continuous	DTC Type B

2000 2.2L (L43) (FFV) (Flexible Fuel Vehicle)S-pickup (includes Isuzu Hombre)4L60-ETRANSMISSION DIAGNOSTIC PARAMETERS

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Shift Solenoid A Performance	P0751	This DTC detects abnormal shift patterns: Stuck OFF: 2-2-3-3 pattern Stuck ON: 1-1-4-4 pattern	Fail Counter >= 3. The fail counter is incremented when the following fail cases are true: Stuck OFF: 1,2,3,& 4 Stuck ON: 1,2,3, & 5	General -Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff -Gear range is D4 -No TP high or low DTC's -No VSS low or intermittent DTC's -No DEX Tot 24 -No PSA DTC set -Time since last shift is >0 sec -Vehicle speed >5 mph -Trans Temp.: 20 C to 130 C Fail Case 1 - Commanded 1-2 shift - TPS: 10% to 50% - TPS constant within +/- 6% - Vehicle Speed: 5 to 35 mph - After 2 seconds, engine speed in 2nd gear must be 80 rpm > last speed in 1st gear Fail Case 2 - Commanded 2-3 shift - TPS constant within +/- 7% - Vehicle Speed: 15 to 60 mph - After 2 sec, engine speed in 3rd gear must be 100 rpm < last speed in 2nd gear	Continuous	DTC Type
				- TCC Slip: -20 to +50 rpm for > 4 sec		
Shift Solenoid A Electrical	P0753	0V to 12V This DTC detects a continuous open or short to ground in the	Fail Counter > 43 Counts out of 50 Total Counts	- System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type B

2000 2.2L (L43) (FFV) (Flexible Fuel Vehicle)S-pickup (includes Isuzu Hombre)4L60-ETRANSMISSION DIAGNOSTIC PARAMETERS

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Shift Solenoid B Performance	P0756	This DTC detects abnormal shift patterns: Stuck OFF: 4-3-3-4 pattern Stuck ON: 1-2-2-1 pattern	Fail Counter >= 3. The fail counter is incremented when the following fail cases are true: Stuck OFF: 1 and 3, or 2 and 3 Stuck ON: 3 and 4	 Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff Gear Range is D4 No TPS DTC's No VSS DTC's No Solenoid electrical DTC's No PSA DTC set Trans Temp: 20 C to 130 C Vehicle Speed > 5 MPH Fail Case 1 1st gear commanded > 2.0 sec. Engine Torque: 40 to 400 ft lbs Vacuum: 0 to 105 kpa Output Speed: 400 to 1500 rpm Speed Ratio: 0.70 to 3.0 Throttle Position > 25% TCC Slip: -3000 to -100 rpm for > 1.5 seconds Fail Case 2 2nd gear command > 409.5 sec Engine Torque: 40 to 400 ft lbs Vacuum: 0 to 105 kpa Output Speed: 8191 to 8191 rpm Output speed: 8191 to 8191 rpm Output speed: 8191 to 808 Throttle Position > 99.9% Fail Timer > 511.99 sec Fail Case 3 Time with 3rd gear commanded: 2.0 to 5.5% seconds TPS: 10% to 50% TPS constant within +/- 7% Engine Torque: 40 to 400 ft lbs Vacuum: 0 to 105 kpa Speed Ratio in Second gear TCC Slip in Third gear does not drop more than 0.35 from the last Speed Ratio in Second gear Tail Case 4 4th Gear commanded for > 1 sec Engine Torque: 0 to 400 ft lbs Vacuum: 0 to 105 kpa Output Speed: 1.400 to 3000 rpm Speed Ratio in Second gear Fail Case 4 4th Gear commanded for > 1 sec Engine Torque: 0 to 400 ft lbs Vacuum: 0 to 105 kpa Tack Sip in Second gear Fail Case 4 4th Gear commanded for > 1 sec Engine Torque: 0 to 400 ft lbs Vacuum: 0 to 105 kpa Speed Ratio in Third gear does not drop more than 0.35 from the last TCC Slip in Third bed to 300 rpm <li< td=""><td>Continuous</td><td>DTC Type A</td></li<>	Continuous	DTC Type A
Shift Solenoid B Electrical	P0758	0V to 12V This DTC detects a continuous open or short to ground in the SSB circuit or the SSB solenoid	Fail Counter > 43 Counts out of 50 Total Counts	for > 1.0 sec - System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type A
3-2 Downshift Solenoid Electrical	P0785	0V to 12V This DTC detects a continuous open or short to ground in the SSB circuit or the SSB solenoid	Fail Counter > 43 Counts out of 50 Total Counts	- System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type A

2000 2.2L (L43) (FFV) (Flexible Fuel Vehicle)S-pickup (includes Isuzu Hombre)4L60-ETRANSMISSIONDIAGNOSTIC PARAMETERS

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
PSA Circuit Malfunction	P1810	OV to 12V This DTC detects an invalid state of the PSA sensor or the PSA circuit by deciphering the PSA inputs.	Fail Case 1 Illegal Trans Pressure Switch State (111) or (101) Fail Case 2 Gear range is D2, D4, or Reverse during engine startup. Fail Case 3 Gear range is Park or Neutral when operating in D4.	Fail Case 1 - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - System Voltage: 10 to 18 volts Fail Case 2 - System Voltage: 10 to 18 volts - No VSS DTC's - Vehicle Speed < 20 rph	Fail Case 1 60 seconds Fail Case 2 5 Seconds Fail Case 3 10 seconds Continuous	DTC Type B
TCC PWM Solenoid Electrical	P1860	0V to 12V This DTC detects a continuous open or short to ground in the TCC PWM circuit or the TCC PWM sensor	Fail Counter > 43 Counts out of 50 Total Counts	 System Voltage: 10 to 18 volts Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff Commanded Gear is 1st TCC Duty Cycle < 10% or > 90% 	Continuous	DTC Type B

2000 2.2L (L43) (FFV) (Flexible Fuel Vehicle) S-pickup (includes Isuzu Hombre) 4L60-E TRANSMISSION DIAGNOSTIC PARAMETERS

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Transmission Component Slipping	P1870	This DTC detects excessive TCC slip when the torque converter clutch should be engaged.	If TCC slip is: 300 to 1000 rpm for 7 seconds, then increment the Trans Slip Counter by one. When the counter reaches 3 OR when Fail Case 2 Criteria C are met, set the code.	 Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff Gear is not 1st Gear Range is D4 No TPS High or Low DTC's No VSS DTC's No solenoid electrical DTC's Shift Solenoid Performance Diagnostic counters are all zero TPS: 12% to 50% Trans temp: 20 C to 130C Engine Torque: 40 to 400 ft-lbs Speed ratic: 0.64 to 0.95 Engine Speed: 1500 to 3500 rpm Vehicle Speed: 35 to 70 mph Fail Case 1 TCC commanded on for > 5 seconds, then : TCC at max duty cycle for > 8.5 seconds Fail Case 2 Run fail case 2 immediately after fail case 1 increments the trans slip counter to either 1 or 2. Discontinue fail case 2 if the TCC is commanded OFF at any time. TPS: 7% to 40% Criteria A If : 200 rpm < TCC slip < 1000 rpm for 7 seconds, then: Go to max pressure freeze adapts go to criteria B If : 200 rpm < TCC slip < 1000 rpm for 7 seconds, then: Command TCC OFF for 1.5 seconds go to criteria C If seconds go to criteria C If : 200 rpm < TCC slip < 1000 rpm for 7 seconds, then: Set code p1870 	Continuous	DTC Type B