

| DIAGNOSTIC TROUBLE CODES | DEFINITIONS   |
|--------------------------|---|
| 581                      | Power to Fan circuit over current   |
| 582                      | Fan circuit open  |
| 583                      | Power to Fuel pump over current   |
| 584                      | VCRM Power ground circuit open (VCRM Pin 1)   |
| 585                      | Power to A/C clutch over current  |
| 586                      | A/C clutch circuit open   |
| 587                      | Variable Control Relay Module (VCRM) communication failure  |
| 593                      | Heated Oxygen Sensor Heater (HO2S HTR) circuit failure  |
| 617                      | 1-2 shift error   |
| 618                      | 2-3 shift error   |
| 619                      | 3-4 shift error   |
| 621                      | Shift Solenoid 1 (SS1) circuit failure KOEO   |
| 622                      | Shift Solenoid 2 (SS2) circuit failure KOEO   |
| 623                      | Transmission Control Indicator Lamp (TCIL) circuit failure  |
| 624                      | Electronic Pressure Control (EPC) circuit failure   |
| 625                      | Electronic Pressure Control (EPC) driver open in PCM  |
| 626                      | Coast Clutch Solenoid (CCS) circuit failure KOEO  |
| 627                      | Torque Converter Clutch (TCC) solenoid circuit failure  |
| 628                      | Excessive converter clutch slippage   |
| 629                      | Torque Converter Clutch (TCC) solenoid circuit failure  |
| 631                      | Transmission Control Indicator Lamp (TCIL) circuit failure KOEO   |
| 632                      | Transmission Control Switch (TCS) circuit did not change states during KOER   |
| 633                      | 4x4L switch closed during KOEO  |
| 634                      | Transmission Range (TR) voltage higher or lower than expected   |
| 636                      | Transmission Fluid Temperature (TFT) higher or lower than expected  |
| 637                      | Transmission Fluid Temperature (TFT) sensor circuit above maximum voltage / -40°F (-40°C) indicated / circuit open    |
| 638                      | Transmission Fluid Temperature (TFT) sensor circuit below minimum voltage / 290°F (143°C) indicated / circuit shorted |
| 639                      | Insufficient input from Turbine Shaft Speed Sensor (TSS)  |
| 641                      | Shift Solenoid 3 (SS3) circuit failure  |
| 643                      | Torque Converter Clutch (TCC) circuit failure   |
| 645                      | Incorrect gear ratio obtained for first gear  |
| 646                      | Incorrect gear ratio obtained for second gear   |
| 647                      | Incorrect gear ratio obtained for third gear  |
| 648                      | Incorrect gear ratio obtained for fourth gear   |
| 649                      | Electronic Pressure Control (EPC) higher or lower than expected   |
| 651                      | Electronic Pressure Control (EPC) circuit failure   |
| 652                      | Torque Converter Clutch (TCC) solenoid circuit failure  |
| 653                      | Transmission Control Switch (TCS) did not change states during KOER   |
| 654                      | Transmission Range (TR) sensor not indicating PARK during KOEO  |
| 656                      | Torque Converter Clutch continuous slip error   |
| 657                      | Transmission overtemperature condition occurred   |
| 659                      | High vehicle speed in park indicated  |