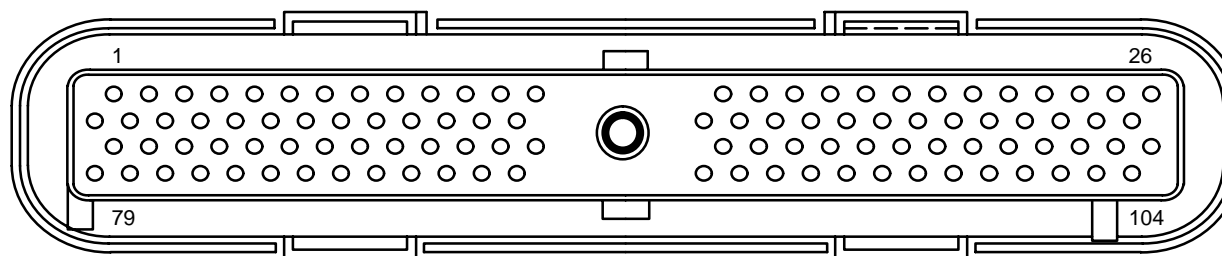


**C175****12A581**

A147  
Powertrain Control  
Module (PCM)  
(12A650)



F104001

| Pin | Circuit      | Circuit Function  |
|-----|--------------|---|
| 1   | 315 (VT/OG)  | Shift solenoid B  |
|     | 1025 (OG/YE) | Coil On Plug (COP) 6 (12029), control                     |
| 2   | –            | not used  |
| 3   | 1144 (YE/BK) | Digital Transmission Range (DTR) sensor, TR1              |
|     | 570 (BK/WH)  | Ground  |
| 4   | –            | not used  |
| 5   | –            | not used  |
| 6   | 237 (OG/YE)  | Shift solenoid A  |
| 7   | –            | not used  |
| 8   | 1022 (DB/YE) | Intake Manifold Runner Control (IMRC) module, monitor     |
| 9   | –            | not used  |
| 10  | –            | not used  |
| 11  | 315 (VT/OG)  | Shift solenoid B  |
| 12  | –            | not used  |
| 13  | 107 (VT)     | Module programming signal                                 |
| 14  | –            | not used  |
| 15  | 915 (PK/LB)  | SCP Bus –   |
| 16  | 914 (TN/OG)  | SCP Bus +   |
| 17  | –            | not used  |
| 18  | –            | not used  |
| 19  | –            | not used  |
| 20  | –            | not used  |
| 21  | 349 (DB)     | Crankshaft position sensor (6C315) +                      |
| 22  | 350 (GY)     | Crankshaft position sensor (6C315) –                      |
| 23  | 1274 (DG/WH) | Powertrain Control Module (PCM) (12A650), to knock sensor |

| Pin | Circuit      | Circuit Function  |
|-----|--------------|---|
| 24  | –            | not used  |
| 25  | 1205 (BK)    | Ground  |
| 26  | 526 (DB/LG)  | PCM, to, Ignition coil                                    |
|     | 1024 (LG/WH) | Coil On Plug (COP) 1 (12029), control                     |
| 27  | 237 (OG/YE)  | Shift solenoid A  |
|     | 1021 (LG/YE) | Coil On Plug (COP) 5 (12029), control                     |
| 28  | 228 (DB)     | Low speed fan control relay, control                      |
| 29  | 224 (TN/WH)  | PCM, to transmission overdrive cancel switch              |
| 30  | –            | not used  |
| 31  | –            | not used  |
| 32  | 1273 (YE)    | Powertrain Control Module (PCM) (12A650), to knock sensor |
| 33  | –            | not used  |
| 34  | 1144 (YE/BK) | Digital Transmission Range (DTR) sensor, TR1              |
| 35  | 392 (RD/LG)  | Heated Oxygen Sensor (HO2S) #12 (9F472), input            |
| 36  | 968 (TN/LB)  | Mass Air Flow (MAF) sensor (12B579), signal, return       |
| 37  | 923 (OG/BK)  | Transmission Fluid Temperature (TFT) sensor, input        |
| 38  | 354 (LG/RD)  | Reference voltage   |
| 39  | 743 (GY)     | Reference voltage   |
| 40  | 928 (LB/OG)  | Fuel pump driver module                                   |
| 41  | 198 (DG/OG)  | A/C high pressure switch (19D594), signal                 |
| 42  | 367 (BN)     | Inlet Manifold Runner Control (IMRC) module, control      |
| 43  | –            | not used  |
| 44  | –            | not used  |
| 45  | 228 (DB)     | Low speed fan control relay, control                      |

## 150-13 Connector Views

| Pin | Circuit      | Circuit Function   |
|-----|--------------|--|
| 46  | 639 (LG/VT)  | High speed fan control relay, control  |
| 47  | 360 (BN/PK)  | EGR Vacuum Regulator (EVR), control  |
| 48  | –            | not used   |
| 49  | 1145 (LB/BK) | Digital Transmission Range (DTR) sensor, TR2   |
| 50  | 1143 (WH/BK) | Digital Transmission Range (DTR) sensor, TR4   |
| 51  | 570 (BK/WH)  | Ground   |
| 52  | 527 (RD/LB)  | PCM, to, Ignition coil   |
|     | 1028 (WH/PK) | Coil On Plug (COP) 3 (12029), control  |
| 53  | 1030 (DG/VT) | Coil On Plug (COP) 4 (12029), control  |
| 54  | 924 (BN/OG)  | Torque Converter Clutch (TCC) solenoid, Torque Converter Clutch (TCC) solenoid         |
| 55  | 729 (RD/WH)  | Voltage supplied at all times (overload protected)                                     |
| 56  | 191 (LG/BK)  | Powertrain Control Module (PCM) (12A650), EVAP canister purge valve                    |
| 57  | 310 (YE/RD)  | Knock sensor 2 (6G004)   |
| 58  | –            | not used   |
| 59  | –            | not used   |
| 60  | 74 (GY/LB)   | Heated Oxygen Sensor (HO2S) #11 (9G444), input   |
| 61  | 393 (VT/LG)  | Heated Oxygen Sensor (HO2S) #22 (9F472), input   |
| 62  | 791 (RD/PK)  | Fuel tank pressure transducer sensor (9C968)   |
| 63  | 141 (RD/PK)  | Fuel rail pressure transducer sensor, input  |
| 64  | 199 (LB/YE)  | Digital Transmission Range (DTR) sensor  |
| 65  | 352 (BN/LG)  | Differential Pressure Feedback EGR (DPFE) sensor, input                                |
| 66  | 1102 (YE/LG) | Cylinder-head temperature sensor (6G004), to, Powertrain Control Module (PCM) (12A650) |
| 67  | 101 (GY/YE)  | EVAP canister vent control solenoid, control   |
| 68  | 239 (WH/OG)  | Vehicle Speed Sensor (VSS), +  |
| 69  | 331 (PK/YE)  | A/C clutch relay, control  |
| 70  | –            | not used   |
| 71  | 361 (RD)     | Voltage supplied in Start and Run (overload protected)                                 |
| 72  | 561 (TN/RD)  | Injector 7, control  |
| 73  | 559 (TN/BK)  | Injector 5, control  |

| Pin | Circuit      | Circuit Function  |
|-----|--------------|---|
| 74  | 557 (BN/YE)  | Injector 3, control   |
| 75  | 555 (TN)     | Injector 1, control   |
| 76  | 570 (BK/WH)  | Ground  |
| 77  | 570 (BK/WH)  | Ground  |
| 78  | 528 (PK/WH)  | PCM, to, Ignition coil  |
|     | 1027 (PK/LB) | Coil On Plug (COP) 7 (12029), control   |
| 79  | 1029 (WH/RD) | Coil On Plug (COP) 8 (12029), control   |
| 80  | 922 (WH/RD)  | Fuel pump driver module (9H307), to, Powertrain Control Module (PCM) (12A650) |
| 81  | 925 (WH/YE)  | Electronic Pressure Control (EPC) solenoid, control                           |
| 82  | –            | not used  |
| 83  | 264 (WH/LB)  | Idle air control valve (IAC) (9F715), control                                 |
| 84  | 970 (DG/WH)  | Output Shaft Speed (OSS) sensor (7M101)                                       |
| 85  | 282 (DB/OG)  | Camshaft position sensor (6B288), input                                       |
| 86  | 439 (TN/LG)  | A/C pressure switch, signal   |
| 87  | 94 (RD/BK)   | Heated Oxygen Sensor (HO2S) #21 (9G444), input                                |
| 88  | 967 (LB/RD)  | Mass Air Flow (MAF) sensor (12B579), output                                   |
| 89  | 355 (GY/WH)  | Throttle Position Sensor (TPS) (9B989), input                                 |
| 90  | 351 (BN/WH)  | Reference, voltage  |
| 91  | 359 (GY/RD)  | signal, return  |
| 92  | 511 (LG)     | Hot with BPP switch engaged   |
| 93  | 387 (RD/WH)  | Heated Oxygen Sensor (HO2S) #11 (9G444), heater                               |
| 94  | 388 (YE/LB)  | Heated Oxygen Sensor (HO2S) #21 (9G444), heater                               |
| 95  | 389 (WH/BK)  | Heated Oxygen Sensor (HO2S) #12 (9F472), heater                               |
| 96  | 390 (TN/YE)  | Heated Oxygen Sensor (HO2S) #22 (9F472), heater                               |
| 97  | 361 (RD)     | Voltage supplied in Start and Run (overload protected)                        |
| 98  | 562 (LB)     | Injector 8, control   |
| 99  | 560 (LG/OG)  | Injector 6, control   |
| 100 | 558 (BN/LB)  | Injector 4, control   |
| 101 | 556 (WH)     | Injector 2, control   |
| 102 | 311 (DG/VT)  | Knock sensor 1 (6G004)  |
| 103 | 570 (BK/WH)  | Ground  |
| 104 | 1026 (PK/LB) | Coil On Plug (COP) 2 (12029), control   |