

## **Transmission Control Module (TCM) (4.3L/4.8L/5.3L/6.0L)**



### **Connector Part Information**

- OEM: 15463921
- Service: 88987979
- Description: 49-Way F GT 280 Micro-Pack 64 Sealed (BK)

### **Terminal Part Information**

- Pins: 1-3, 5-7, 11, 14-17, 19, 20, 23-26, 29, 30-33, 35, 37-42, 44-46
- Terminal/Tray: 15359541/4
- Core/Insulation Crimp: M/M
- Release Tool/Test Probe: 15381651-2/J-35616-64B (L-BU)
- Pins: 49

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- Terminated Lead: Service by Harness – See Part Catalog
- Release Tool: J-38125-553
- Diagnostic Test Probe: J-35616-4A (PU)
- Terminal/Tray: 15392777/23
- Core/Insulation Crimp: D/5

### Transmission Control Module (TCM) (4.3L/4.8L/5.3L/6.0L)

| Pin   | Wire         | Circuit | Function                                                                        |
|-------|--------------|---------|---------------------------------------------------------------------------------|
| 1     | 0.5 BN       | 418     | Torque Converter Clutch Pulse Width Modulation (TCC PWM) Solenoid Valve Control |
| 2     | 0.5 L-GN     | 1222    | Shift Solenoid A Valve Control                                                  |
| 3     | 0.5 OG/BK    | 1230    | Automatic Transmission Input Speed Sensor (AT ISS) High Signal                  |
| 4     | —            | —       | Not Used                                                                        |
| 5     | 0.5 OG/BK    | 6399    | Replicated TOS Signal                                                           |
| 6     | 0.5 TN       | 2501    | High Speed GMLAN Serial Data Bus (–)                                            |
| 7     | 0.5 TN/BK    | 2500    | High Speed GMLAN Serial Data Bus (+)                                            |
| 8–10  | —            | —       | Not Used                                                                        |
| 11    | 0.5 D-BU     | 5985    | Accessory Wakeup Serial Data                                                    |
| 12–14 | —            | —       | Not Used                                                                        |
| 15    | 0.5 TN       | 2501    | High Speed GMLAN Serial Data Bus (–)                                            |
| 16    | 0.5 L-GN/BK  | 822     | Vehicle Speed Sensor (VSS) Low Signal                                           |
| 17    | 0.35 L-BU/WH | 1229    | PC Solenoid Valve Low Control (Sol. A)                                          |

| Pin   | Wire        | Circuit | Function                                                             |
|-------|-------------|---------|----------------------------------------------------------------------|
| 18    | —           | —       | Not Used                                                             |
| 19    | 0.5 TN/BK   | 2500    | High Speed GMLAN Serial Data Bus (+)                                 |
| 20    | 0.5 YE/BK   | 1223    | Shift Solenoid B Valve Control                                       |
| 21–22 | —           | —       | Not Used                                                             |
| 23    | 0.35 GY     | 773     | Transmission Range Switch Signal C                                   |
| 24    | 0.35 PK     | 1224    | Transmission Fluid Pressure Switch Signal A (4L80)                   |
| 25    | 0.5 TN/BK   | 422     | Torque Converter Clutch (TCC) Solenoid Valve Control (4L60)          |
| 26    | 0.5 D-BU/WH | 1231    | Automatic Transmission Input Speed Sensor (AT ISS) Low Signal (4L80) |
| 27–28 | —           | —       | Not Used                                                             |
| 29    | 0.35 TN/WH  | 771     | Transmission Range Switch Signal A                                   |
| 30    | 0.35 TN     | 452     | Low Reference                                                        |
| 31    | 0.5 PK      | 2139    | Ignition Voltage                                                     |
| 32    | 0.35 RD/WH  | 1840    | Battery Positive Voltage                                             |
| 33    | 0.35 OG     | 1226    | Transmission Fluid Pressure Switch Signal C (4L80)                   |
| 34    | —           | —       | Not Used                                                             |
| 35    | 0.35 YE/BK  | 1227    | Transmission Fluid Temperature (TFT) Sensor Signal                   |
| 36    | —           | —       | Not Used                                                             |

| Pin   | Wire         | Circuit | Function                                           |
|-------|--------------|---------|----------------------------------------------------|
| 37    | 0.5 TN       | 2501    | High Speed GMLAN Serial Data Bus (–)               |
| 38    | 0.5 TN/BK    | 2500    | High Speed GMLAN Serial Data Bus (+)               |
| 39    | 0.35 WH      | 776     | Transmission Range Switch Signal P                 |
| 40    | 0.35 OG/BK   | 1228    | PC Solenoid Valve High Control (Sol. A)            |
| 41    | 0.5 PU/WH    | 821     | Vehicle Speed Sensor (VSS) High Signal             |
| 42    | 0.5 L-BU/WH  | 6311    | Torque Converter Clutch (TCC) Brake Signal         |
| 43    | —            | —       | Not Used                                           |
| 44    | 0.35 D-BU    | 1225    | Transmission Fluid Pressure Switch Signal B (4L80) |
| 45    | 0.35 D-BU/WH | 1231    | Low Reference (4L60)                               |
| 46    | 0.35 YE      | 772     | Transmission Range Switch Signal B                 |
| 47–48 | —            | —       | Not Used                                           |
| 49    | 2 BK/WH      | 1551    | Ground                                             |