



Technical Service Information

TOYOTA U660E TCM ELIMINATED

CHANGE: During production for the 2012 model year vehicles equipped with the U660E have had the TCM eliminated. In previous years the TCM was mounted on a pass-thru connector on the side of the transmission, Figure 1.

Transmission control on 2012 and later vehicle will now be controlled by the Powertrain Control Module on the left side of the engine bay which now has control of the transmission incorporated into the PCM.

REASON: It is more cost effective to manufacture only one computer instead of two. PCM placement moves farther away from damage by a front end collision.

PARTS AFFECTED:

- (1) The case connector now connects to the transmission pass-thru connector, Figure 2.
- (2) The TCM is now an integral part of the PCM.

INTERCHANGEABILITY:

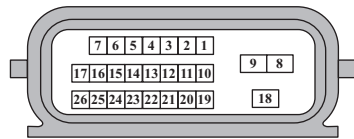
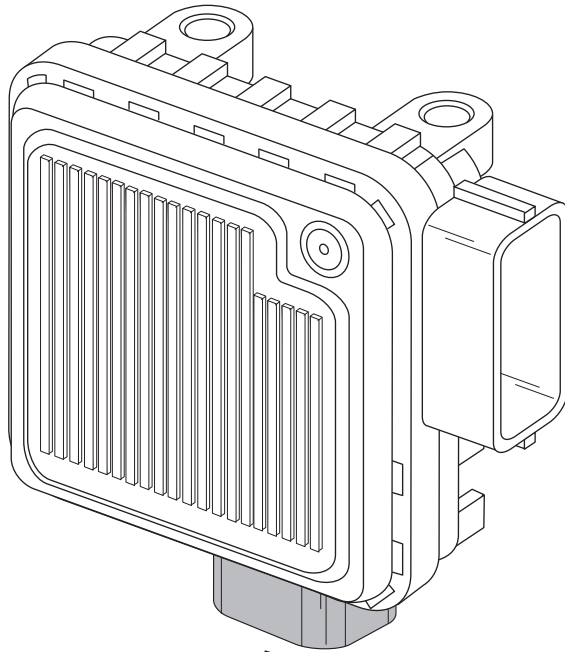
None of the 2012 changes will back service any of the previous models.

SERVICE INFORMATION:

PCM Harness To Transmission Connector.....82824-33360

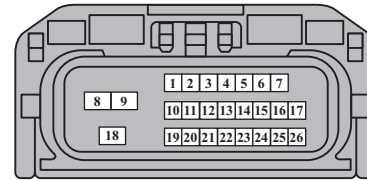
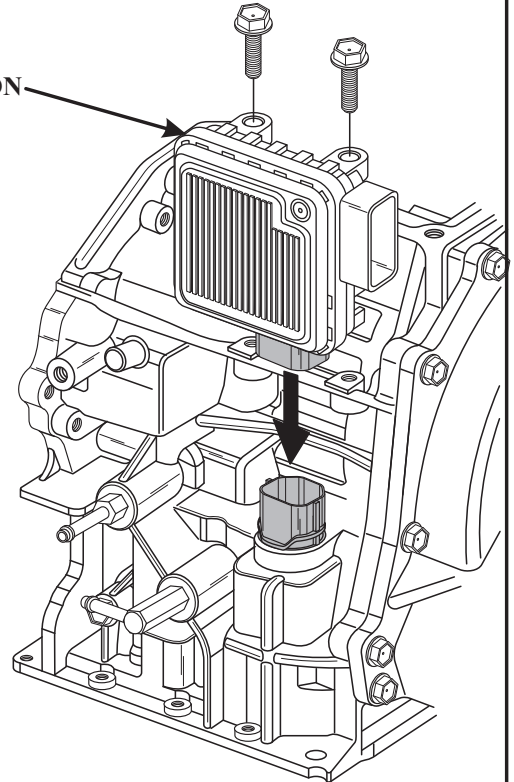
TOYOTA U660E TRANSMISSION CONTROL MODULE

PREVIOUS DESIGN



TCM/ECU Connector
Vehicle Harness Side
(Face View)

TCM
LOCATION



Vehicle Harness Connector
"B40" To TCM/ECU
(Face View)

TCM "B40" CONNECTOR VEHICLE HARNESS SIDE

Terminal	Color	Function
1	White/Blue	Battery Voltage for TCM memory (Always Hot).
3	Black/Red	Speed Signal from combination meter.
6	Black	CAN + Communication.
7	Yellow	CAN - Communication.
8	Black/White	Ground (E1).
10	Yellow	Starter signal.
11	Blue	Park/Neutral switch signal.
12	Black	Stop light switch signal.
13	Blue/Black	Ignition switch ON signal.
15	White	Reverse (R) shift position switch signal.
16	Red	Drive (D) shift position switch signal.
18	White	B+ Ignition, Power source for TCM.

Note: Wire colors may vary.

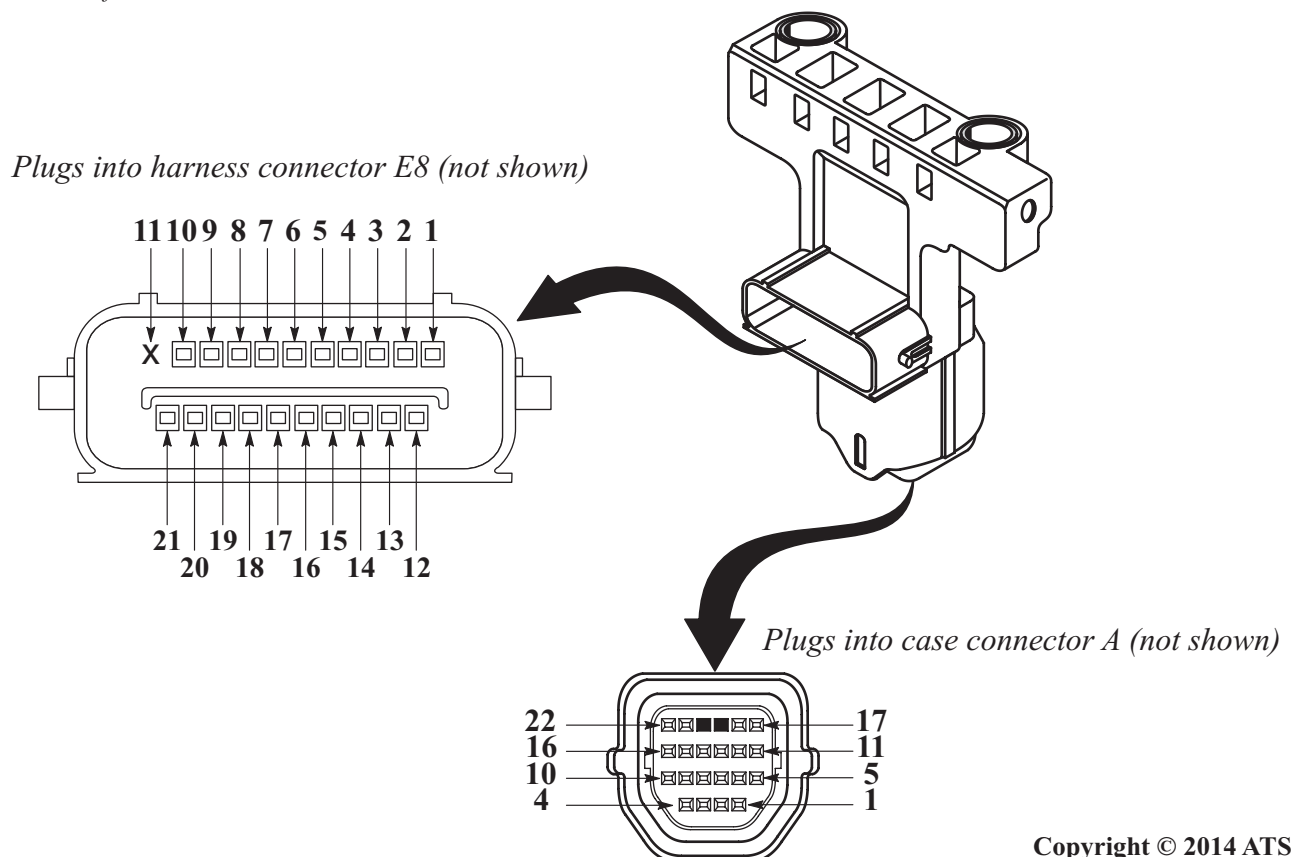
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Figure 1

TOYOTA U660E ECM HARNESS CONNECTOR E8 TERMINAL ID

Terminal	Color*	Function
1	Black	Turbine Speed Sensor Ground (NTB).
2	Red	Turbine Speed Sensor Signal (NTO).
3	White	Counter Gear Speed Sensor Signal (NCO).
4	Lt Green	Counter Gear Speed Sensor Ground (NCB).
5	Green	Linear Solenoid "SLU" Ground (TCC and B2 Brake Pressure Control).
6	Red	ON-OFF 3-Way Solenoid "SL" Positive (This Solenoid is internally grounded).
7	Yellow	Linear Solenoid "SLT" Ground (Line Pressure Control).
8	Grey	Linear Solenoid "SL2" Ground (C2 Clutch Pressure Control).
9	Lt Green	Linear Solenoid "SL2" Positive (C2 Clutch Pressure Control).
10		Not used
11		Blank
12	Pink	Transaxle Fluid Temperature Ground (E2).
13	Lt Green	Transaxle Fluid Temperature Signal (THO1).
14	Blue	Linear Solenoid "SLU" Positive (TCC and B2 Brake Pressure Control).
15	White	Linear Solenoid "SLT" Positive (Line Pressure Control).
16	Black	Linear Solenoid "SL1" Ground (C1 Clutch Pressure Control).
17	Purple	Linear Solenoid "SL1" Positive (C1 Clutch Pressure Control).
18	Pink	Linear Solenoid "SL3" Ground (B1 Brake Pressure Control).
19	Blue	Linear Solenoid "SL3" Positive (B1 Brake Pressure Control).
20	White	Linear Solenoid "SL4" Ground (B3 Brake Clutch Pressure Control).
21	Purple	Linear Solenoid "SL4" Positive (B3 Brake Clutch Pressure Control).

* Wire colors are from the E8 transmission harness connector to the ECM E26 connector



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Figure 2