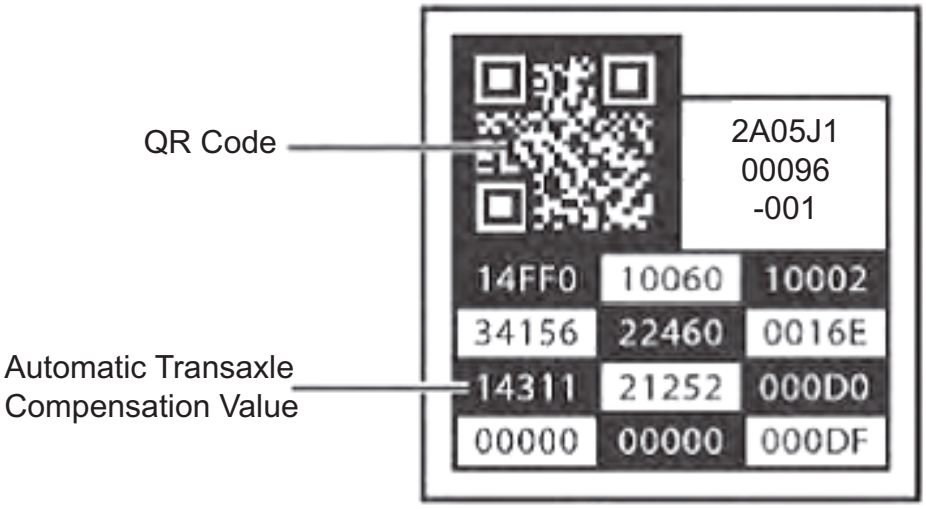
Toyota U660E

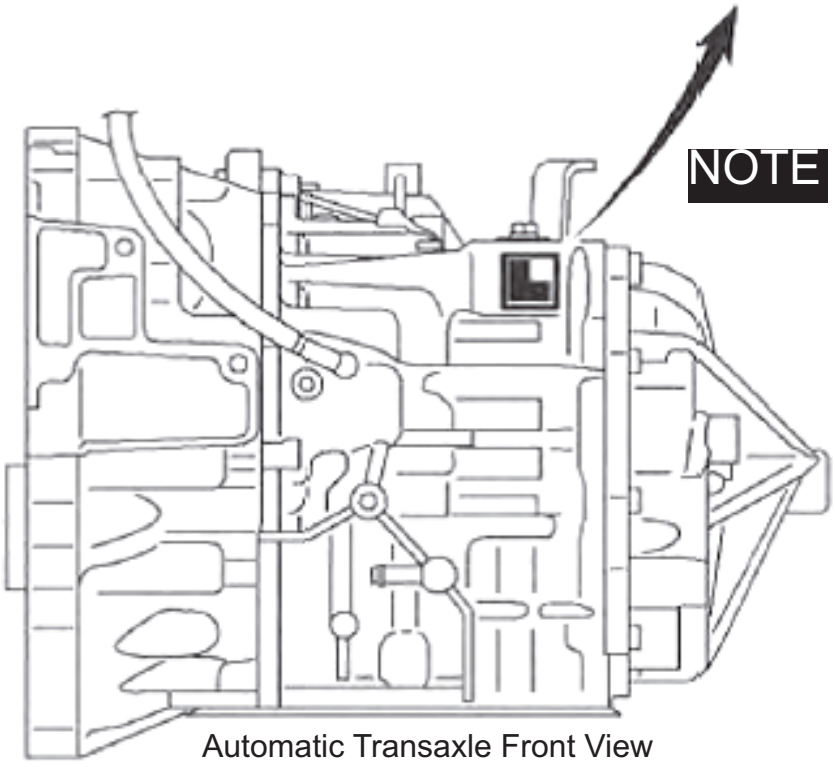
Preparing for your Road Test

File: Toyota
Date: January 2015

Toyota U660E Preparing for Your Road Test

STOP Before you install this unit you need to locate the QR (Quick Response) label and record the 60 digit compensation code. This will not be visible once the unit is installed.





Automatic Transaxle Front View

NOTE **TAKING A PICTURE WITH A SMART PHONE WORKS WELL.**

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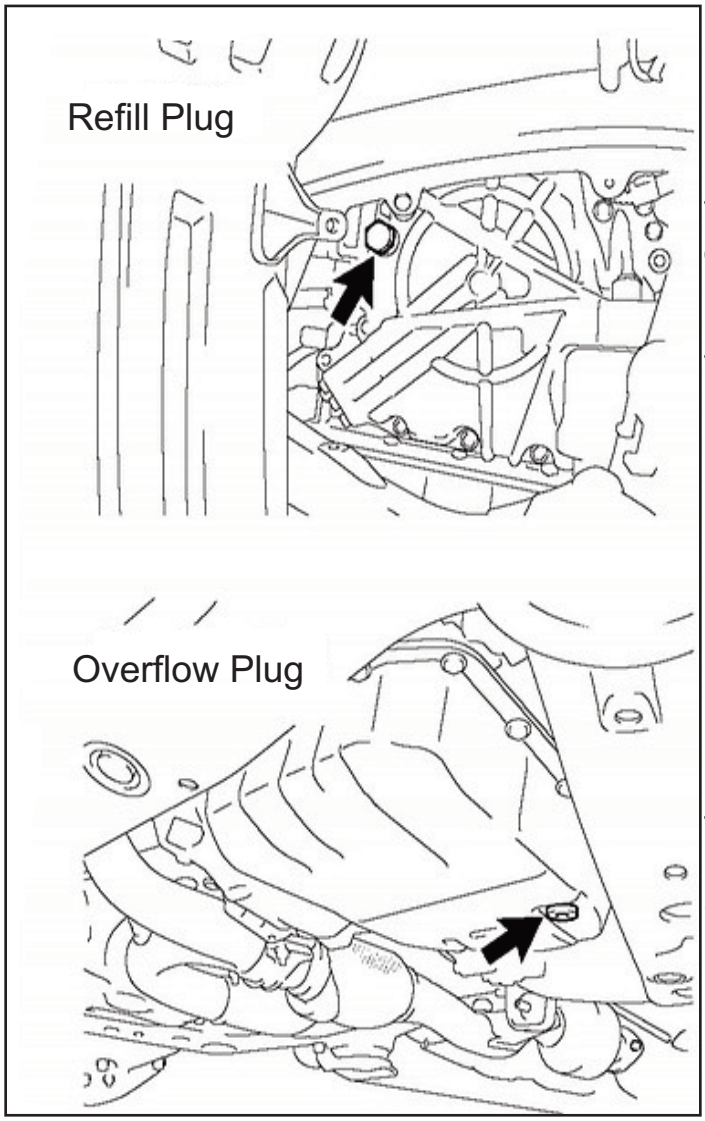
Filling the unit and adjusting the level.



The fluid level must be set at a temperature range of 40°C (104°F) to 45°C (113°F).

There are 2 ways to monitor the NT oil temperature:

1) Use an OEM (Original Equipment Manufacturer) scanner such as Techstream Lite.

2) Use the “D” indicator to monitor fluid temperature. See the procedure for “D” indicator on next page.

This transmission requires Toyota Genuine ATF (Automatic Transmission Fluid) Type WS (World Standard).

Standard Capacity	
Performed Repair	Fill Amount
Replacement of transaxle (a new torque converter is used)	5.3 liters (5.6 qts)
Replacement of transaxle (the torque converter is reused)	3.4 liters (3.6 qts)
Removal and Installation of oil pan (including oil drain) Removal and installation of drive shaft	2.8 liters (3.0 qts)
Removal and Installation of Valve Body	3.2 liters (3.4 qts.)
Removal and Installation of torque converter	4.8 liters (5.1 qts.)
Repair of oil leakage and removal of oil cooler and cooler hose	0.5 liters (0.5 qts.)

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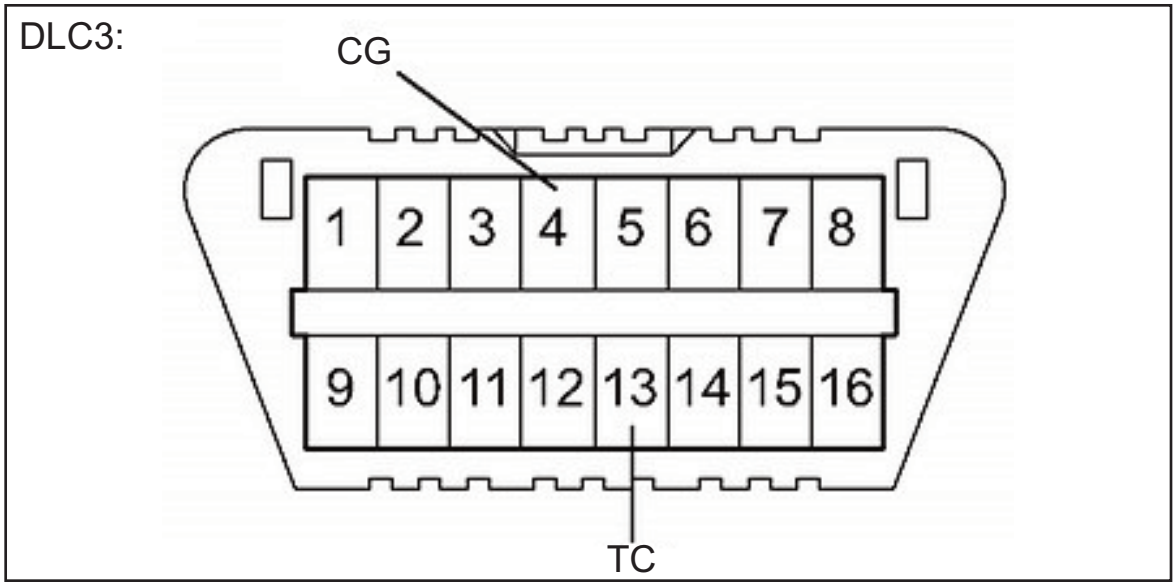
Based on service performed, add the appropriate amount of fluid from chart on the previous page, before engine start up. Start the engine, position a drain pan under the overflow plug and remove the plug. If no fluid comes out, add to the refill plug until it just starts to drip. Next, reinstall both plugs, lower the car, run it through the gears one time. Next, monitor fluid temperature and remove the overflow(Check) plug, when it reaches 40°C(104°F) it should drip from the overflow plug. If fluid doesn't drip out, add fluid in the refill plug until it just starts to drip out. Install check plug with a new gasket and torque to 40Nm(30 ft. lbs.) Install a new seal on the refill plug and torque to 49Nm(36 ft. lbs.).

NOTE **IF TEMPERATURE EXCEEDS 45°C (113°F) BEFORE COMPLETION OF THIS PROCEDURE, YOU WILL NEED TO LET VEHICLE COOL DOWN AND RECHECK THE FLUID LEVEL.**

Using the "D" indicator to monitor your fluid temperature.

This process requires that the fluid temperature be below 39°C (102°F) to initialize.



Using a suitable jumper wire, connect terminal 4 to 13. Next with the engine idling and the A/C off, move the shifter from N to D at 1.5 second intervals for 6 seconds. The "D" indicator in the combination meter comes on for 2 seconds than goes out indicating that you are in temperature monitoring mode and the fluid is below 40°C (104°F). Place the vehicle in Park and remove the jumper wire. When the fluid reaches 40°C (104°F) the "D" indicator will come back on and will blink when the fluid temperature exceeds 45°C (113°F).

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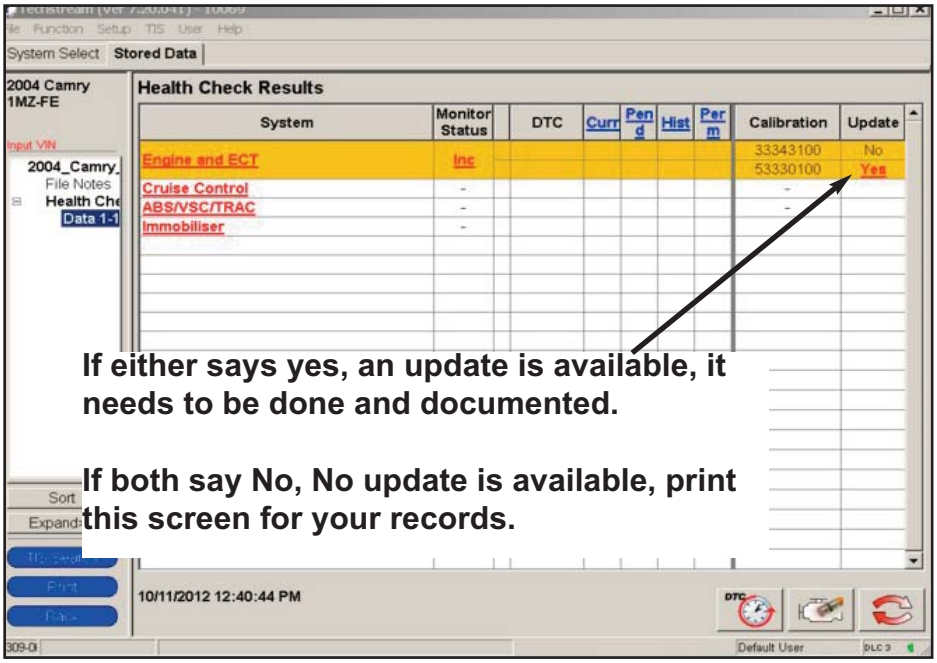
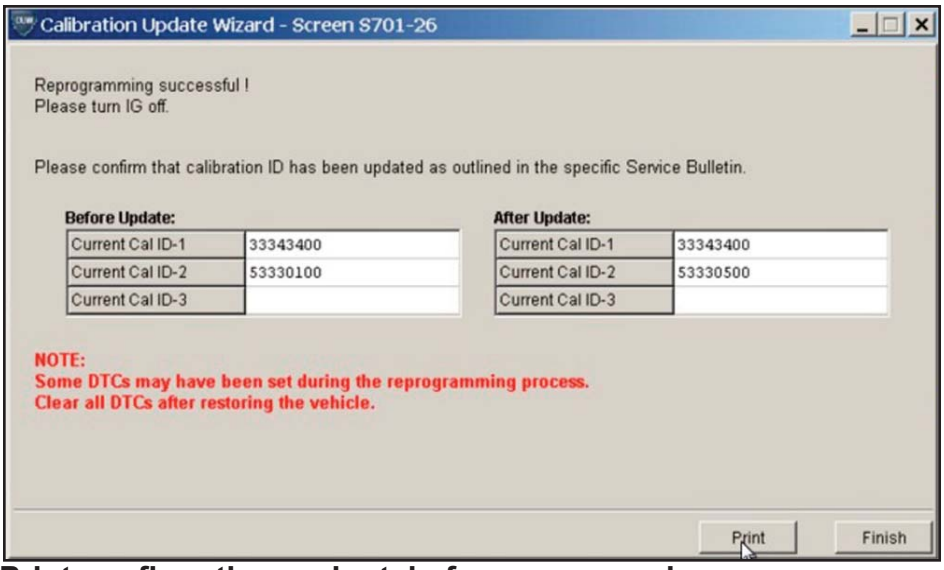
IMPORTANT **THE NEXT THREE STEPS REQUIRE USING A J2534 TOOL WITH TECHSTREAM LITE. IF YOU DON'T HAVE A J2534 DEVICE YOU WILL NEED TO TOW THE VEHICLE TO THE DEALER TO GET THIS DONE.**

***FAILURE TO COMPLETE THESE STEPS MAY CAUSE PREMATURE FAILURE AND VOID YOUR WARRANTY (If installing exchange unit).**

STEP 1 Connect Techstream Lite to the vehicle and run a health check, to see if Engine and Transmission software is current.





Print confirmation and retain for your records.

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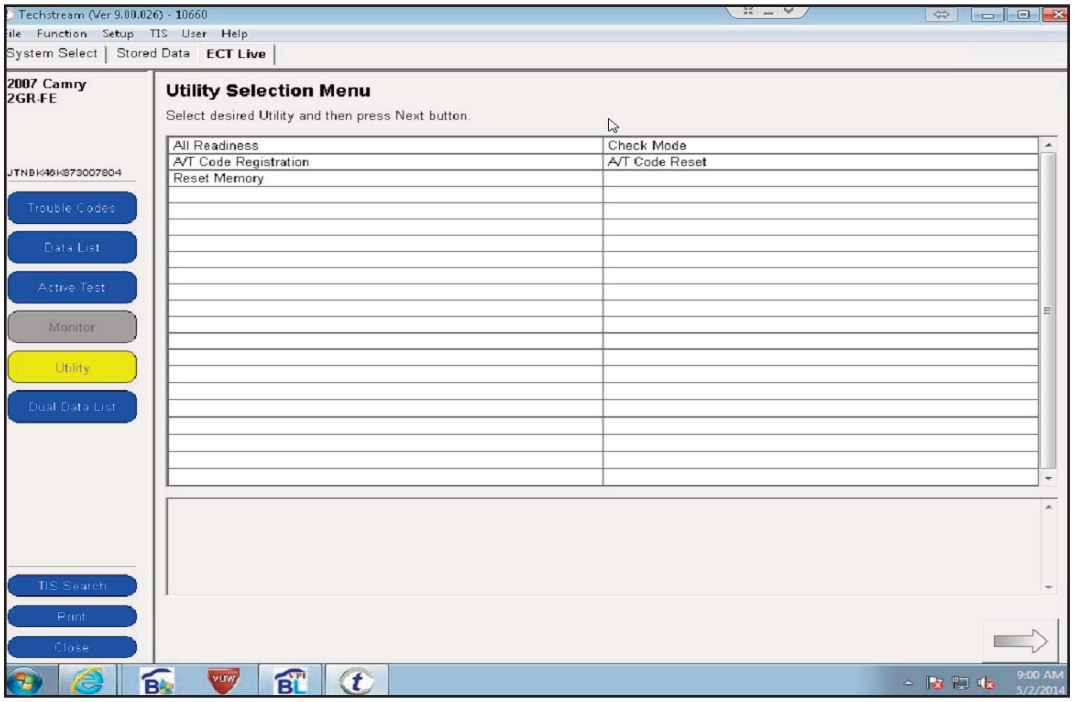
STEP 2 Enter the compensation code.

This process is found in ECT (Electronic Controlled Transmission) click on the utility tab, than from the screen shown below, select A/T Code Registration.



STEP 3 Return to the Utility page and refer to the chart below, to determine which function needs to be performed.

Replaced Parts		Transaxle Compensation Code	Road Test	Memory (Learned Values)
Automatic Transaxle Assembly		Input	-	Reset
Valve Body Assembly		Initialize	Necessary	Reset
Shift Solenoid Valve SL1 and/or SL2		-	Necessary	-
Shift Solenoid Valve SL3 and/or SL4		Initialize	Necessary	Reset
TCM (If possible, read the transaxle compensation code from the previous TCM)	Possible	Input (Into the new TCM)	-	-
	Impossible	-	Necessary	-

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Preparing to Learn New Adaptations

CAUTION **THERE CAN BE NO ENGINE, TRANSMISSION OR ABS CODES.**

NOTE **YOU MUST HAVE A MINIMUM OF A 1/4 AND A MAXIMUM OF 3/4 TANK OF FUEL**

1) With the vehicle in Park and ALL accessories turned OFF, set the Park brake and start the engine.
2) Allow engine to idle for about 10-20 minutes until idle is smooth and engine is at normal opearting temperature. The radiator fan should cycle twice.
3) While still in drive, with your foot on the brake, turn the A/C (air conditioner) on.
4) Let engine idle until smooth.

****Verify that the transmission is at normal operating temperature****

Check scanner PID (Parameter Identification Data) to verify normal transmission operating temperature or let vehicle idle for 20 minutes.

Engagement Adaptation

1) Make 5 shifts from N to R, waiting 5 seconds in each position.
2) Make 5 shifts from N to D, waiting 5 seconds in each position.

Road Test Adaptation

1) Drive vehicle at 10% throttle until high gear is achieved.
2) Decelerate slowly over a period of 14 seconds to a complete stop.
3) Repeat steps 1 and 2, 4 more times.
4) Drive vehicle at 20% throttle until high gear is achieved.
5) Decelerate gradually, ensuring each downshift to a complete stop.
6) Repeat steps 4 and 5, 4 more times.
7) Continue this cycle at 30% and 40% throttle.
8) If manual shifting is available, drive in 2nd gear up to 15 mph/25kph.
9) Decelerate making a manual downshift to 1st gear to a complete stop.
10) Repeat steps 8 and 9, 9 more times.

Final Lift Check

1) Place the vehicle back on the hoist, check for signs of fluid leaks, loose or missing bolts or brackets.
2) Connect a scanner and check for codes in any major system.
3) Reset the vehicle clock.
4) Make sure the vehicle is clean.
5) Take the vehicle on one last road-test to verify proper operation and no abnormal noises.