TOYOTA

Technical Service BULLETIN

May 25, 2001

Title:

ECU FLASH REPROGRAMMING ERROR MESSAGE

Models:

Applicable Models

TSB

REVISED

SS004-01

SPECIAL SERVICE TOOLS

TSB REVISION NOTICE:

September 23, 2003: Models added – 2002 (and later) Solara, 2003 (and later) Corolla and Matrix, and 2004 models; Test Procedures updated for new CAN Interface Module. The previous TSB should be discarded.

Introduction

During ECU flash reprogramming, an error message may be displayed on the Diagnostic Tester that will not allow ECU flash reprogramming to complete. This bulletin provides test procedures to determine the cause for the error message.

Applicable Vehicles

- **2001** (and later) model year **4Runner, Highlander, Land Cruiser, RAV4, Sequoia** and **Tundra** vehicles.
- **2002** (and later) model year **Camry, Solara** and **Tacoma** vehicles.
- **2003** (and later) model year **Corolla** and **Matrix** vehicles.
- **All 2004** (and later) model year **Toyota** vehicles **except Celica, MR2 Spyder, Avalon, and Tacoma (3RZ–FE engine)**

Required SSTs

SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QUANTITY
Toyota Diagnostic Tester Kit* 	01001271	1
CAN Interface Module Kit* 	01002744	1
12 Megabyte Diagnostic Tester Program Card with version 10.2a Software (or later)* 	01002593-005	1
Diagnostic Tester 14/26 Pin DLC Cable	02001637	1
Diagnostic Tester J1962 OBDII Cable (CAN DLC)	02003180	1

* Essential SSTs.

NOTE:

Additional Diagnostic Tester Kits, CAN Interface Modules, Program Cards or other SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

Test Procedure

During ECU flash reprogramming, the Error screen at right may be displayed on the Diagnostic Tester for one of the following reasons:

1. Immobilizer key not properly registered or auto–registration mode left open.
2. Ignition ON/OFF cycling not followed correctly during the flash reprogramming procedure.
3. The Diagnostic Tester cable is damaged, causing an open communication circuit.

UPDATE ECU CAL
CANNOT CHANGE TO REPROGRAM MODE
PLEASE CHECK
– IG TURNED OFF/ON PROPERLY
– ALL KEY CODES REGISTERED

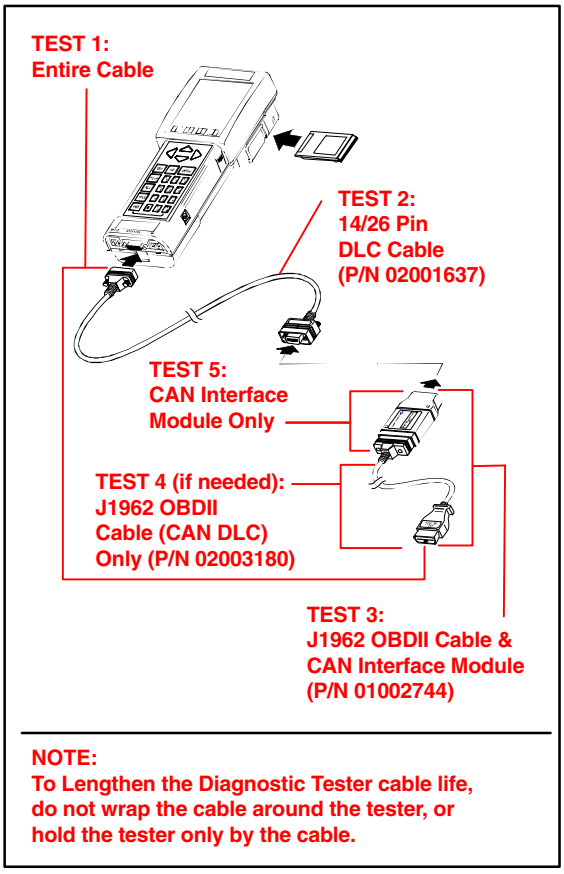
PRESS [ENTER]

NOTE:
The Diagnostic Tester may operate properly in other modes such as OBD, OBDII, or CARB, with a damaged cable.

To eliminate the possibility of the first 2 reasons causing the error message, do the following:

1. Confirm the Immobilizer Transponder Master Key is properly registered and auto registration mode is closed. Follow the appropriate Repair Manual procedure and consult TSB SS001–99, *"Scantool Immobilizer Key Code Utility."*
2. Conduct the ECU flash reprogramming process explicitly following key operation instructions. Refer to TSB SS002–01, *"ECU Flash Reprogramming Process,"* for more details.

To determine if the Diagnostic Tester cable is damaged, follow the test procedures below to check the electrical integrity of the cable. Conduct all continuity tests with an Ohm meter. For all five test procedures, the resistance values must be below 6.0 ohms to pass.



NOTE:
To Lengthen the Diagnostic Tester cable life, do not wrap the cable around the tester, or hold the tester only by the cable.

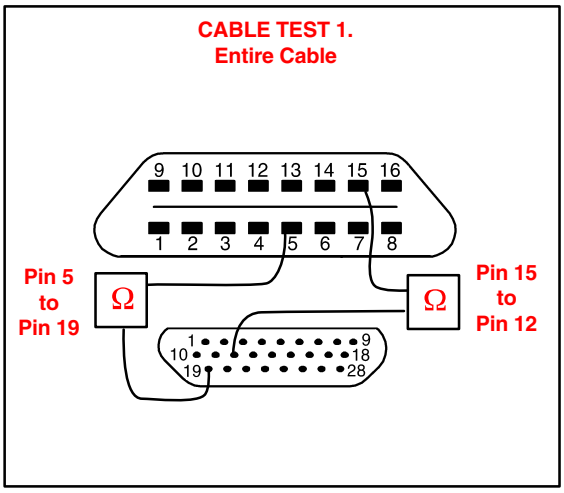
Test Procedure (Continued)

CABLE TEST 1.

A. Connect Diagnostic Tester cables DLC (P/N 02001637) and CAN Interface Module / J1962 OBDII together (P/N 01002744).

B. Test for continuity.

- If there is continuity, the cable is OK. Check steps 1 and 2 above to complete the flash reprogramming process.
- If there is no continuity, proceed to CABLE TEST 2.

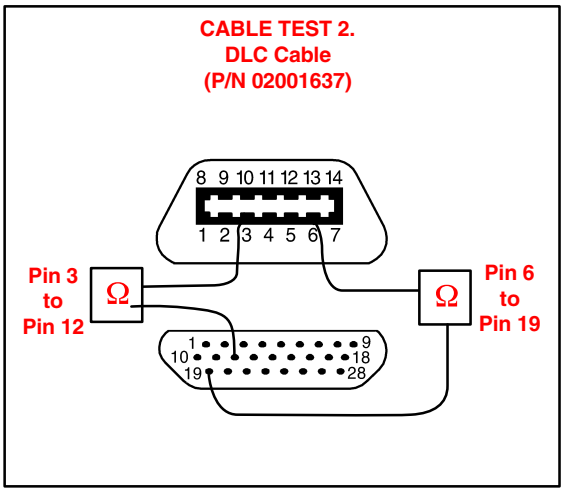


CABLE TEST 2.

A. Disconnect Diagnostic Tester cables DLC (P/N 02001637) and CAN Interface Module / J1962 OBDII (P/N 01002744).

B. Test DLC cable (P/N 02001637) for continuity.

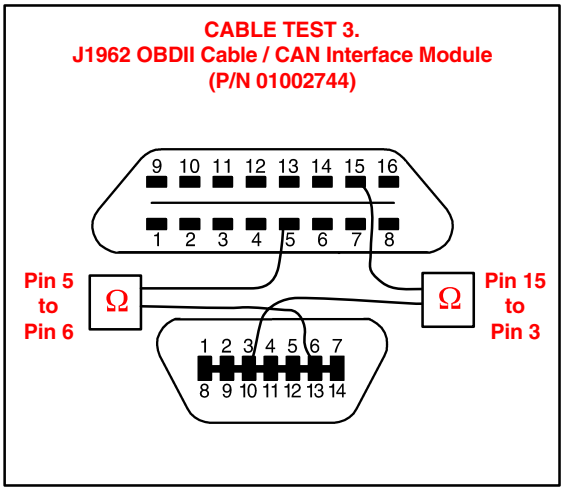
- If there is continuity, the cable is OK. Proceed to CABLE TEST 3.
- If there is no continuity, the cable needs to be replaced.



CABLE TEST 3.

A. Test J1962 OBDII / CAN Interface Module (P/N 01002744) for continuity.

- If there is continuity, the cable and CAN Interface Module are OK. Re–check Cable Tests 1, 2, and 3 while wiggling and flexing the cables.
- If there is no continuity, proceed to CABLE TEST 4.

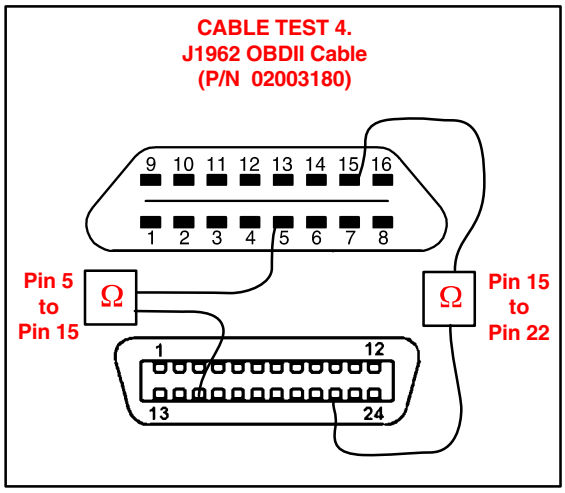


Test Procedure (Continued)

CABLE TEST 4.

A. Disconnect the CAN Interface Module (P/N 01002744) from the J1962 OBDII cable using a Phillips screwdriver.

B. Test J1962 OBDII cable (P/N 02003180) for continuity.
   - If there is no continuity, the cable needs to be replaced.
   - If there is continuity, proceed to CAN Interface Module Test 5.



CAN INTERFACE MODULE TEST 5.

A. Test the CAN Interface Module (P/N 01002744) for continuity.
   - If there is no continuity, the CAN Interface Module needs to be replaced.
   - If there is continuity, the CAN Interface Module is OK. Re–check Cable Tests 1, 2, 3, and 4 while wiggling and flexing the cables.