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| DTC | B2799 | ENGINE IMMOBILISER SYSTEM MALFUNCTION |
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CIRCUIT DESCRIPTION

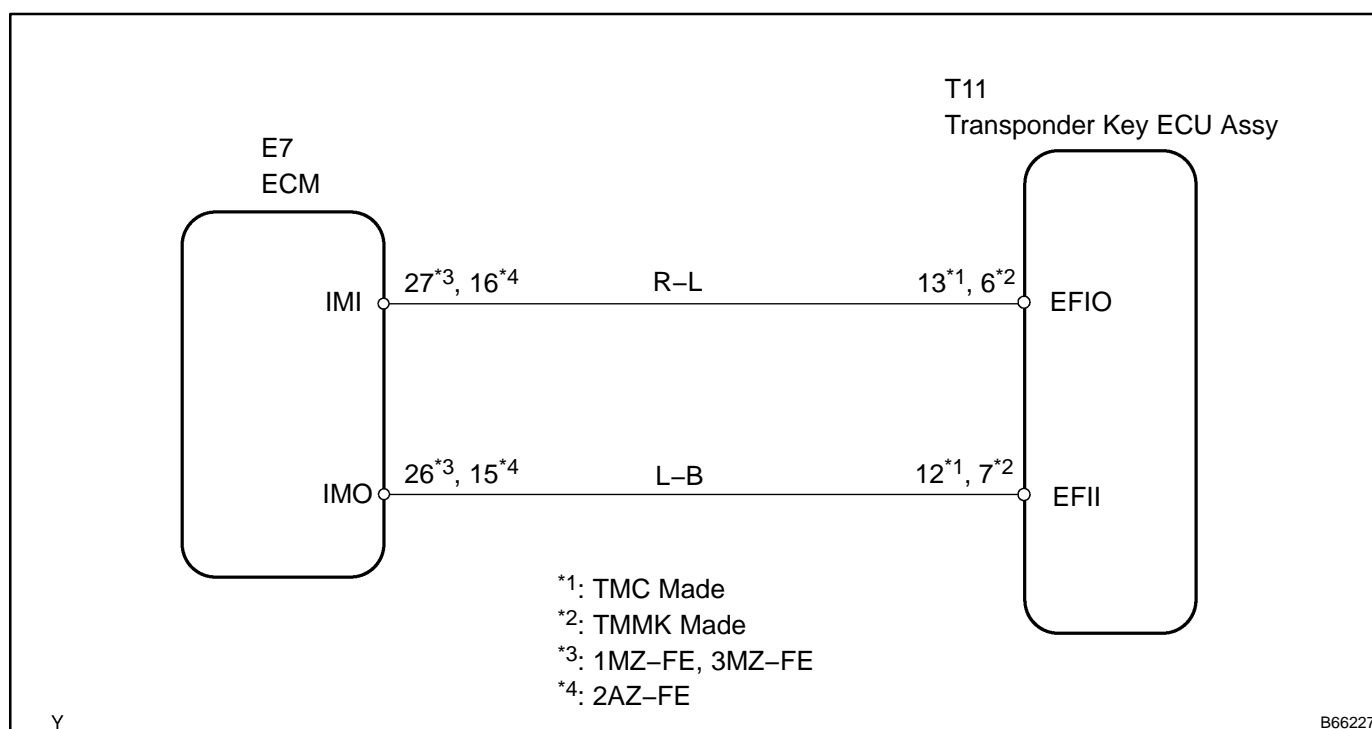
This DTC is output when the ECM detects errors in communication between the transponder key ECU Assy and the ECM, or in the communication lines.

This DTC is also output when an engine start is attempted while the ECU communication ID between the transponder key ECU Assy and the ECM are different.

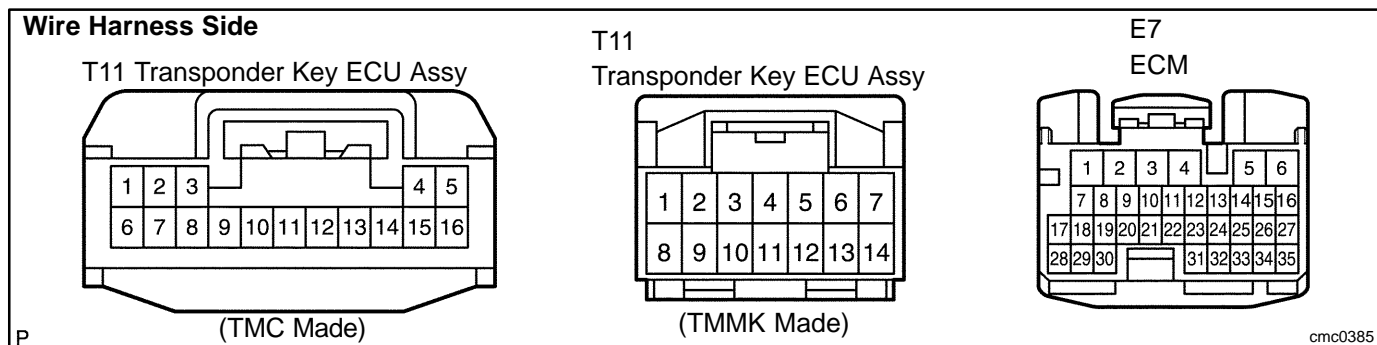
Before troubleshooting for this DTC, make sure that there is no DTC detected in the transponder key ECU. If there is key code-related DTC detected in the transponder key ECU Assy, repair it first.

| DTC No. | DTC Detection Condition | Trouble Area |
|---------|---|---|
| B2799 | <ul style="list-style-type: none"> Error in communication between ECM and transponder key ECU Assy, and in communication line Communication ID is different during communication with transponder key ECU | <ul style="list-style-type: none"> Wire harness Transponder key ECU Assy Transponder key amplifier (Transponder key coil) ECM |

WIRING DIAGRAM



INSPECTION PROCEDURE

**1 CHECK WIRE HARNESS (TRANSPONDER KEY ECU ASSY ⇔ ECM)
(TRANSPONDER KEY ECU ASSY OR ECM ⇔ BODY GROUND)**


- (a) Disconnect the T11 ECU and E7 ECM connector.
 (b) Check the continuity between the wire harness side connectors.

Standard (TMC Made):

| Symbols (Terminal No.) | Specified Condition |
|---|---------------------|
| EFIO (T11-13) ⇔ IMI (E7-27)* ¹ , (E7-16)* ² | Continuity |
| EFII (T14-12) ⇔ IMO (E7-26)* ¹ , (E7-15)* ² | Continuity |

Standard (TMMK Made):

| Symbols (Terminal No.) | Specified Condition |
|--|---------------------|
| EFIO (T11-6) ⇔ IMI (E7-27)* ¹ , (E7-16)* ² | Continuity |
| EFII (T14-7) ⇔ IMO (E7-26)* ¹ , (E7-15)* ² | Continuity |

- (c) Check the continuity between the T11 or E7 wire harness side connector and the body ground.

Standard (TMC Made):

| Symbols (Terminal No.) | Specified Condition |
|--|---------------------|
| EFIO (T11-13) or IMI (E7-27)* ¹ , (E7-16)* ² ⇔ Body ground | No continuity |
| EFII (T14-12) or IMO (E7-26)* ¹ , (E7-15)* ² ⇔ Body ground | No continuity |

Standard (TMMK Made):

| Symbols (Terminal No.) | Specified Condition |
|---|---------------------|
| EFIO (T11-6) or IMI (E7-27)* ¹ , (E7-16)* ² ⇔ Body ground | No continuity |
| EFII (T14-7) or IMO (E7-26)* ¹ , (E7-15)* ² ⇔ Body ground | No continuity |

*¹: 1MZ-FE, 3MZ-FE

*²: 2AZ-FE

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

2 CHECK OPERATION OF TRANSPONDER KEY AMPLIFIER

- (a) After replacing the transponder key amplifier, check that the engine starts.

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(TRANSPONDER KEY AMPLIFIER DEFECTIVE)****OK****REPLACE TRANSPONDER KEY ECU ASSY**