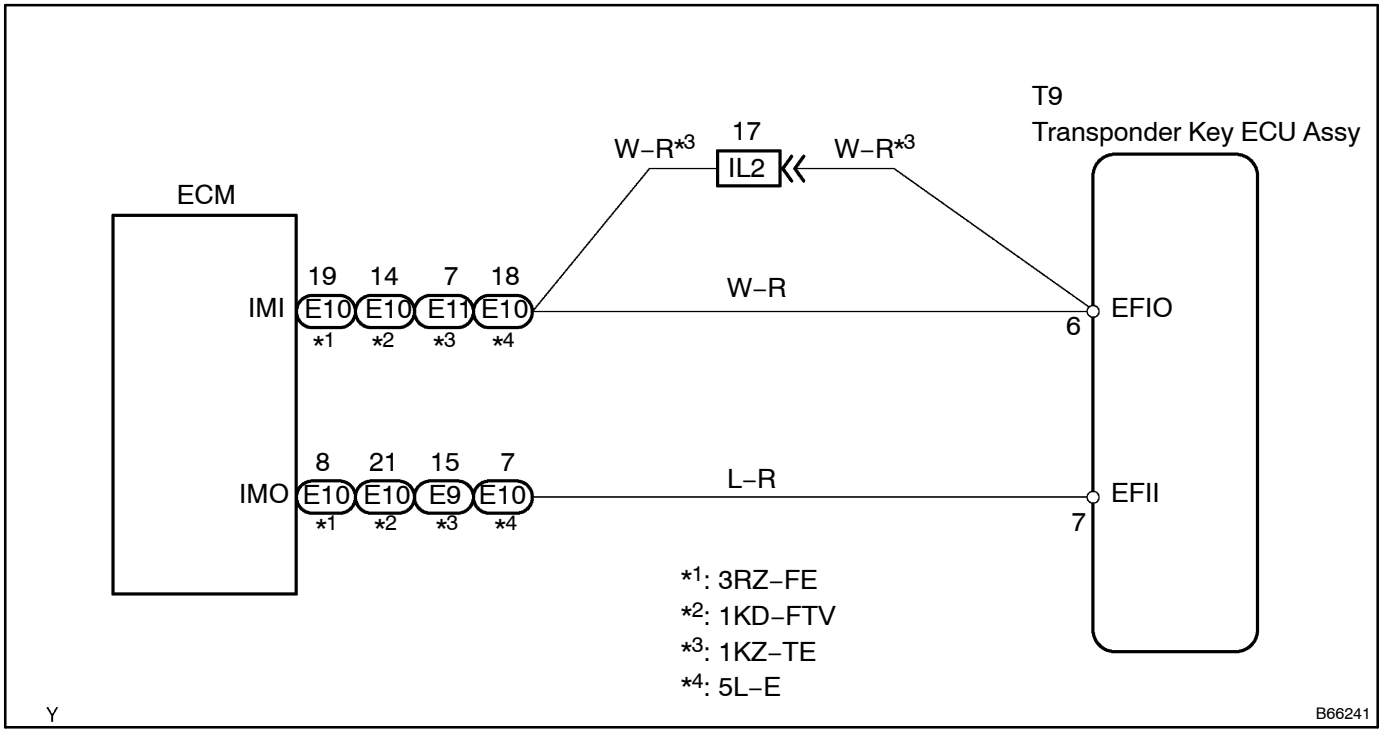
DTC	B2799	ENGINE IMMOBILISER SYSTEM MALFUNCTION

CIRCUIT DESCRIPTION

This DTC is output from the ECM when there is a open or short circuit in the wire harness between the transponder key ECU assy and the ECM.

DTC No.	DTC Detection Condition	Trouble Area
B2799	• Error in communication between ECM and transponder key ECU assy, and in communication line. • Communication key code is different in communication with transponder key ECU.	• Wire harness • Transponder key ECU assy • ECM

WIRING DIAGRAM



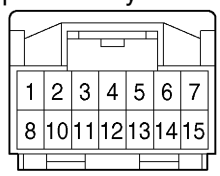
INSPECTION PROCEDURE

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

Wire Harness Side

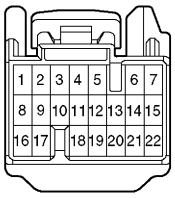
T9

Transponder Key ECU Assy



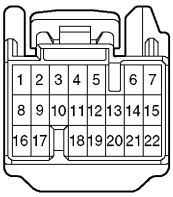
E9

ECM 1KZ–TE

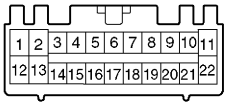


E10

ECM 1KD–FTV

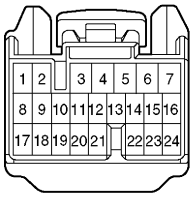


3RZ–FE, 5L–E



E11

ECM 1KZ–TE



B63407
B64972
B64972
B64971
B64970

B66211

(a) Disconnect the T9 ECU and E9, E10 or E11 ECM connectors.

(b) Check the continuity between the wire harness side connectors.

Standard (3RZ–FE engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) ⇔ IMI (E10–19)	Continuity
EFII (T9–7) ⇔ IMO (E10–8)	Continuity

Standard (1KD–FTV engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) ⇔ IMI (E10–14)	Continuity
EFII (T9–7) ⇔ IMO (E10–21)	Continuity

Standard (1KZ–TE engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) ⇔ IMI (E11–7)	Continuity
EFII (T9–7) ⇔ IMO (E9–15)	Continuity

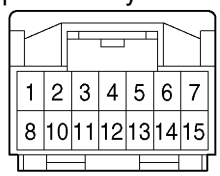
Standard (5L–E engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) ⇔ IMI (E10–18)	Continuity
EFII (T9–7) ⇔ IMO (E10–7)	Continuity

Wire Harness Side

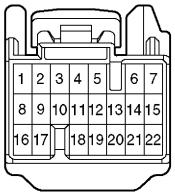
T9

Transponder Key ECU Assy



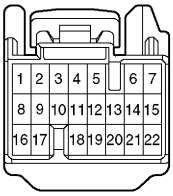
E9

ECM 1KZ–TE

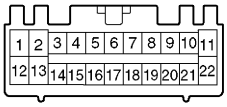


E10

ECM 1KD–FTV

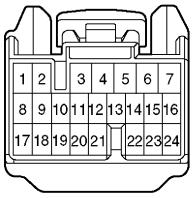


3RZ–FE, 5L–E



E11

ECM 1KZ–TE



B63407
B64972
B64972
B64971
B64970

B66211

(c) Check the continuity between the T9, E9, E10 or E11 wire harness side connector and body ground.

Standard (3RZ–FE engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) or IMI (E10–19) ⇔ Body ground	No continuity
EFII (T9–7) or IMO (E10–8) ⇔ Body ground	No continuity

Standard (1KD–FTV engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) or IMI (E10–14) ⇔ Body ground	No continuity
EFII (T9–7) or IMO (E10–21) ⇔ Body ground	No continuity

Standard (1KZ–TE engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) or IMI (E11–7) ⇔ Body ground	No continuity
EFII (T9–7) or IMO (E9–15) ⇔ Body ground	No continuity

Standard (5L–E engine):

Symbols (Terminal No.)	Specified Condition
EFIO (T9–6) or IMI (E10–18) ⇔ Body ground	No continuity
EFII (T9–7) or IMO (E10–7) ⇔ Body ground	No continuity

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

2 CHECK OPERATION OF TRANSPONDER KEY AMPLIFIER

(a) After exchanging the transponder key ECU, check that the engine starts.

NG → **NORMAL (TRANSPONDER KEY AMPLIFIER DEFECTIVE)**

OK

REPLACE TRANSPONDER KEY ECU ASSY