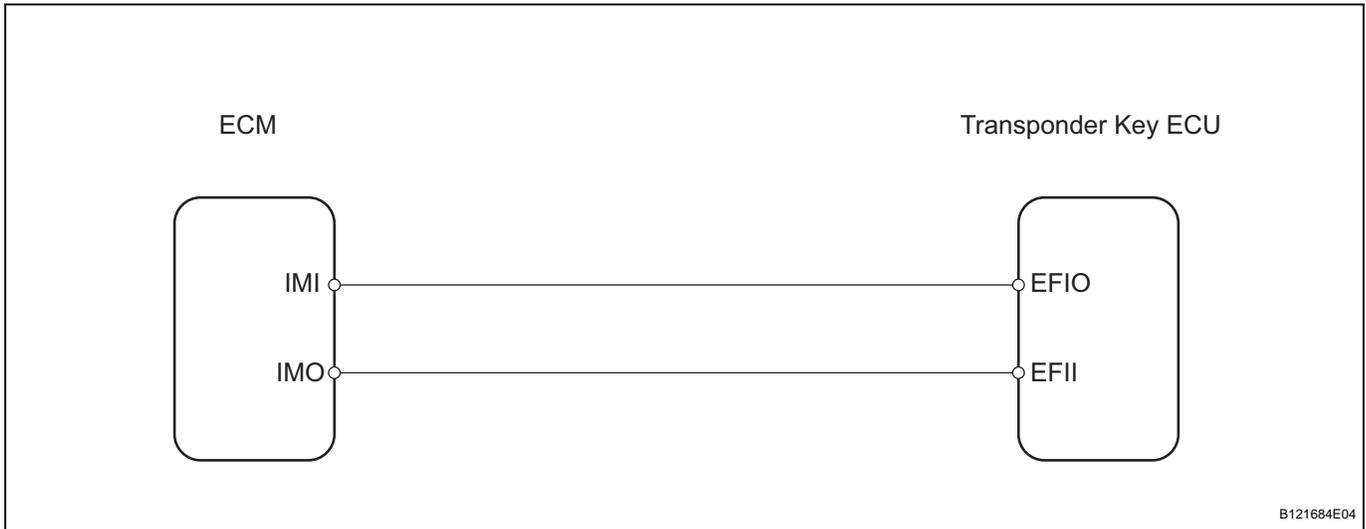


DTC**B2799****Engine Immobiliser System Malfunction****DESCRIPTION**

This DTC is output when one of the following occurs: 1) the ECM detects errors in its own communications with the transponder key ECU; 2) the ECM detects errors in the communication lines; or 3) the ECU communication ID between the transponder key ECU and ECM is different and an engine start is attempted. Before troubleshooting for this DTC, make sure no transponder key ECU DTCs are present. If present, troubleshoot the transponder key ECU DTCs first.

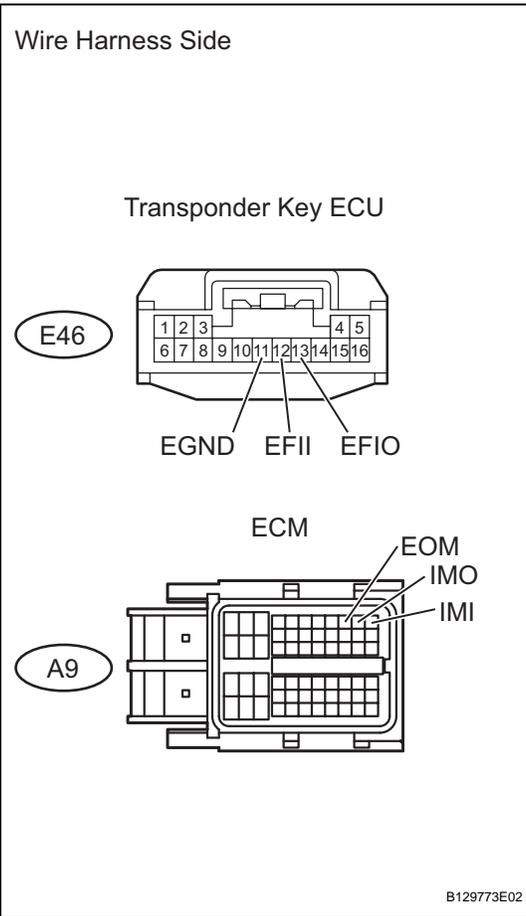
DTC No.	DTC Detection Condition	Trouble Area
B2799	One of following conditions is met: <ul style="list-style-type: none"> • Error in communication between ECM and transponder key ECU • Error in communication lines • Communication ID is different during communication with transponder key ECU 	<ul style="list-style-type: none"> • Wire harness • Transponder key ECU • ECM

WIRING DIAGRAM**INSPECTION PROCEDURE****1****CHECK FOR DTC**

- (a) Delete the DTC (see page [EI-18](#)).
- (b) Recheck for DTC.

OK:**B2799 output does not reoccur.****OK****NORMAL****NG**

2 CHECK WIRE HARNESS (TRANSPONDER KEY ECU - ECM)



- (a) Disconnect the E46 ECU connector.
- (b) Disconnect the A9 ECM connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
E46-13 (EFIO) - A9-11 (IMI)	Below 1 Ω
E46-12 (EFII) - A9-10 (IMO)	
E46-11 (EGND) - A9-9 (EOM)	
E46-13 (EFIO) or A9-11 (IMI) - Body ground	10 kΩ or higher
E46-12 (EFII) or A9-10 (IMO) - Body ground	

NG REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3 CHECK TRANSPONDER KEY ECU (OPERATION)

- (a) Temporarily replace the transponder key ECU with a new or normally functioning one.
- (b) Check that then engine starts normally.

OK:
Engine starts normally.

NG REPLACE ECM

OK

END (TRANSPONDER KEY ECU IS DEFECTIVE)