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|---|--|-------------------------|
| Last Modified: 7-13-2007 | | 1.7 C |
| Service Category: Vehicle Interior | Section: Theft Deterrent/Keyless Entry | |
| Model Year: 2008 | Model: ES350 | Doc ID: RM000000SJV014X |
| Title: ENGINE IMMOBILISER: ENGINE IMMOBILISER SYSTEM: B2799: Engine Immobiliser System Malfunction (2008 ES350) | | |

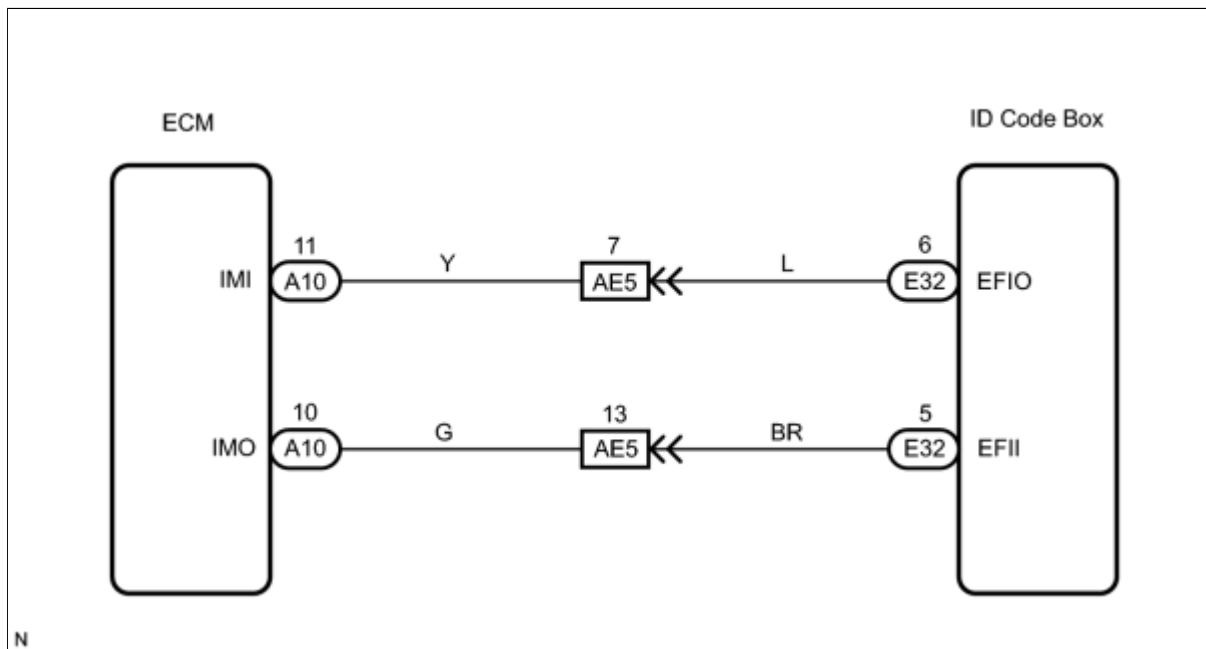
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|-----|-------|---------------------------------------|
| DTC | B2799 | Engine Immobiliser System Malfunction |
|-----|-------|---------------------------------------|

DESCRIPTION

This DTC is output when one of the following occurs: 1) the ECM detects errors in its own communications with the ID code box; 2) the ECM detects errors in the communication lines; or 3) the ECU communication ID between the ID code box and ECM is different and an engine start is attempted. Before troubleshooting for this DTC, make sure no certification ECU DTCs are present. If present, troubleshoot the certification 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 ID code box • Error in communication lines • Communication ID is different between ID code box and ECM during communication | <ul style="list-style-type: none"> • Wire harness • ECM • ID code box |

WIRING DIAGRAM




INSPECTION PROCEDURE


NOTICE:

- If the ID code box is replaced, register the key and ECU communication ID [INFO](#) .
- If the ECM is replaced, register the ECU communication ID [INFO](#) .

PROCEDURE

1. CHECK DTC OUTPUT

(a) Delete the DTCs  .

(b) Recheck for DTCs  .

Result:

| RESULT | PROCEED TO |
|-------------------------------|------------|
| B2799 output reoccurs | A |
| B2799 output does not reoccur | B |

B  USE SIMULATION METHOD TO CHECK

A


2. RE-REGISTER ECU COMMUNICATION ID

(a) Re-register the ECU communication ID  between the ID code box and ECM.

(b) Check that the engine starts.

OK:

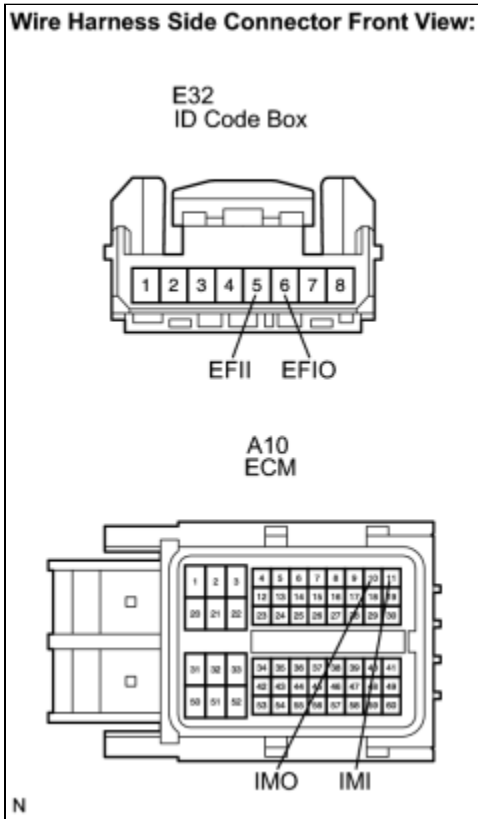
The engine starts.

OK  END

NG


3. CHECK HARNESS AND CONNECTOR (ID CODE BOX - ECM)

(a) Disconnect the E32 ID code box and A10 ECM connectors.



(b) Measure the resistance according to the value(s) in the table below.

Standard resistance:

| TESTER CONNECTION | SPECIFIED CONDITION |
|-----------------------------|-------------------------|
| E32-5 (EFII) - A10-10 (IMO) | Below 1 Ω |
| E32-6 (EFIO) - A10-11 (IMI) | |
| E32-5 (EFII) - Body ground | 10 k Ω or higher |
| E32-6 (EFIO) - Body ground | |

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK




4. REPLACE ECM

(a) Replace the ECM .

NEXT




5. ECU COMMUNICATION ID REGISTRATION


(a) Register the ECU communication ID between the ID code box and ECM  .

NEXT



6. CHECK DTC OUTPUT

(a) Delete the DTCs  .

(b) Recheck for DTCs  .

Result:

| RESULT | PROCEED TO |
|-------------------------------|------------|
| B2799 output reoccurs | A |
| B2799 output does not reoccur | B |

B  END

A  REPLACE ID CODE BOX

