

# ENGINE IMMOBILISER SYSTEM

## HOW TO PROCEED WITH TROUBLESHOOTING

0521A-02

HINT:

Troubleshoot in accordance with the procedures on the following pages.

### 1 VEHICLE BROUGHT TO WORKSHOP



### 2 CUSTOMER PROBLEM ANALYSIS CHECK AND PROBLEM SYMPTOM CONFIRMATION



### 3 CRANK ENGINE FOR MORE THAN 10 SECONDS



### 4 CHECK DIAGNOSTIC TROUBLE CODE

(a) Check for a DTC.

- (1) When any of code B2780, B2784, B2794, B2795, B2796, B2797, B2798 or B2799 is output, proceed to A.
- (2) When a code except B2780, B2784, B2794, B2795, B2796, B2797, B2798 or B2799 is output, proceed to B.

B

GO TO SFI SYSTEM (See page 05-1 )

A

### 5 READ VALUE OF HAND-HELD TESTER (IMMOBILISER ECU (TRANSPONDER KEY ECU ASSY) (SWITCH CONDITION))

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main SW ON.
- (c) Select the item "KEY SW" in the "DATA LIST" and read its value displayed on the hand-held tester.

**TRANSPONDER KEY ECU:**

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
KEY SW	Un-lock warning SW signal/ ON or OFF	ON: Key is in the IG key cylinder OFF: Key is not in IG key cylinder	-

NG

GO TO DTC B2780 (See page 05-1233 )

OK

<b>6</b>	<b>CHECK DIAGNOSTIC TROUBLE CODE OF TRANSPONDER KEY ECU ASSY</b>
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- (a) Check for a DTC and make a note of the code that is output.
- (b) Delete the DTC.
- (c) Check if the DTC will be output once again, when the problem symptom is simulated based on the noted code.
  - (1) Without an output of the code, proceed to A.
  - (2) With an output of the code, proceed to B.

<b>B</b>
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<b>Go to step 8</b>
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<b>A</b>
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<b>7</b>	<b>PROBLEM SYMPTOMS TABLE (See page <a href="#">05-1232</a> )</b>
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- (a) Without an applicable problem symptoms table, proceed to A.
- (b) With an applicable problem symptoms table, proceed to B.

<b>B</b>
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<b>Go to step 9</b>
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<b>A</b>
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<b>8</b>	<b>ACCORDING TO PROBLEM SYMPTOM, PERFORM TROUBLESHOOTING</b>
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- (a) Pre-check (See page [05-1223](#) )
  - (1) Inspect with the hand-held tester (ECU data monitor).
  - (2) Inspect with the hand-held tester (Active test).
- (b) Terminals of ECU (See page [05-1228](#) )

<b>9</b>	<b>ADJUST, REPAIR OR REPLACE</b>
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<b>END</b>
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