

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

6 CHECK DIAGNOSTIC TROUBLE CODE OF TRANSPONDER KEY ECU ASSY

- (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 **Go to step 8****A****7 PROBLEM SYMPTOMS TABLE (See page 05-1232)**

- (a) Without an applicable problem symptoms table, proceed to A.
- (b) With an applicable problem symptoms table, proceed to B.

B **Go to step 9****A****8 ACCORDING TO PROBLEM SYMPTOM, PERFORM TROUBLESHOOTING**

- (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)

9 ADJUST, REPAIR OR REPLACE**END**