HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
Use the following procedure to troubleshoot the engine immobiliser system.
The intelligent tester should be used in steps 4, 5 and 7.

1	VEHICLE BROUGHT TO WORKSHOP

NEXT

2	CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK

NEXT

3	CRANK ENGINE FOR MORE THAN 10 SECONDS

NEXT

4	CHECK FOR DTCS

(a) Check for DTCs and note any codes that are output.
(b) Delete the DTC.
(c) Simulate the malfunction symptoms based on the DTCs recorded in step (a) to check if the same DTCs are output again.
  (1) If the DTC does not reoccur, proceed to A.
  (2) If any DTC of the SFI system reoccurs, proceed to B.
  (3) If any DTC of the engine immobiliser system reoccurs, proceed to C.

B	Go to SFI SYSTEM
C	Go to step 8

A

5	READ VALUE OF INTELLIGENT TESTER

(a) Connect the intelligent tester to the Controller Area Network Vehicle Interface Module (CAN VIM). Then connect the CAN VIM to the DLC3.
(b) Turn the ignition switch ON and push the intelligent tester main switch ON.

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(c) Read the DATA LIST according to the display on the tester.

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
KEY SW	Unlock warning switch signal /ON or OFF	ON: Key is in ignition key cylinder OFF: No key is in ignition key cylinder	-

OK:
ON (Key is in ignition key cylinder)

NG → **Go to DTC B2780**

OK

6 PROBLEM SYMPTOMS TABLE

(a) If the fault is not listed in the problem symptoms table, proceed to A.
(b) If the fault is listed in the problem symptoms table, proceed to B.

B → **Go to step 8**

A

7 OVERALL ANALYSIS AND TROUBLESHOOTING

(a) DATA LIST/ACTIVE TEST (See page EI-17)
  (1) Inspection with the intelligent tester (DATA LIST).
  (2) Inspection with the intelligent tester (ACTIVE TEST).
(b) Terminals of ECU (See page EI-12)

NEXT

8 ADJUST, REPAIR OR REPLACE

NEXT

9 CONFIRMATION TEST

NEXT

END

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