ENGINE IMMOBILISER SYSTEM (1GR–FE)

HOW TO PROCEED WITH TROUBLESHOOTING

054CF–06

HINT:

Troubleshoot in accordance with the procedures on the following pages.

1	VEHICLE BROUGHT TO WORKSHOP

2	CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK (See page 05–380)

3	CRANK ENGINE FOR MORE THAN 10 SECONDS

4	CHECK DTC

(a) Check for a DTC.

(1) When any of codes B2780, B2784, B2793, B2794, B2795, B2796, B2797, B2798 or B2799 is output, proceed to A.

(2) When a code except B2780, B2784, B2793, 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 switch ON.

(c) Select the item ”KEY SW” in the ”DATA LIST” and read its value displayed on the hand–held tester.

Transponder key ECU assy:

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
KEY SW	Un–lock warning switch signal /ON or OFF	ON: Key is in IG key cylinder OFF: No key is in IG key cylinder	–

NG → Go to DTC B2780 (See page 05–391)

OK

6	PROBLEM SYMPTOMS TABLE (See page 05–390)

(a) When problem is not listed on problem symptoms table, proceed to A.
(b) When problem is listed on problem symptoms table, proceed to B.

B → Go to step 8

A

7	PERFORM TROUBLESHOOTING ACCORDING TO MALFUNCTION SYMPTOM

(a) Pre–check (See page 05–381)
  (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 05–386)

8	ADJUST, REPAIR OR REPLACE

END