

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.

- Connect the intelligent tester (with CAN VIM) to the DLC3.
- Turn the ignition switch ON and turn the tester ON.
- Select the following menu items: DIAGNOSIS / OBD/MOBD / IMMOBILISER / DATA LIST.
- Check the results by referring to the table below.

Transponder key ECU:

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	-
IG SW	Ignition switch signal / ON or OFF	ON: Ignition switch ON (IG or ACC) OFF: Ignition switch OFF	-
IMMOBILISER	Immobiliser system status / SET or UNSET	SET: No key is in ignition key cylinder UNSET: Key is in ignition key cylinder	-
PERMIT (START)	Engine starting control / OK or NG	OK: Engine start is permitted NG: Engine start is not permitted	-
RESPONSE	Transponder chip data / NG or OK	NG: Data error OK: Data OK	-
FRAME ERROR	Transponder chip data / NG or OK	NG: Data error OK: Data OK	-
SERIAL NUMBER	Transponder chip data / NG or OK	NG: Data error OK: Data OK	-
ENCRYPT CODE	Transponder chip data / NG or OK	NG: Data error OK: Data OK	-
STATUS	Transponder chip data / NG or OK	NG: Data error OK: Data OK	-
BCC	Transponder chip signal / NG or OK	NG: Incorrect data sent OK: Correct data sent	-
SUB KEY	Sub-key code signal / MATCH or NOMATCH	MATCH: Registered sub-key code is sent NOMATCH: Unmatched sub-key code is sent	-
MASTER KEY	Master key code signal / MATCH or NOMATCH	MATCH: Registered master key code is sent NOMATCH: Unmatched master key code is sent	-
REGIST SUB CODE	Number of registered sub-keys / min.: 0, max.: 15	Number of registered sub-keys	-
REGIST MAS CODE	Number of registered master keys / min.: 0, max.: 15	Number of registered master keys	-
REG CODE SPACE	Key registration code memory space full / NOTFULL or FULL	NOTFULL: Possible to register more key codes FULL: Cannot register any more key codes	-

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
+B	+B judgment / NORMAL or BREAK	NORMAL: Battery supply is normal BREAK: Battery supply is malfunctioning	-
ANTENNA COIL	Transponder key coil condition / NORMAL or FAIL	NORMAL: Transponder key coil is normal FAIL: Transponder key coil is malfunctioning	-

2. PERFORM ACTIVE TEST

HINT:

Performing the intelligent tester's ACTIVE TEST allows relay, VSV, actuator and other items to be operated without removing any parts. Performing the ACTIVE TEST early in troubleshooting is one way to save time. The DATA LIST can be displayed during the ACTIVE TEST.

- Connect the intelligent tester (with CAN VIM) to the DLC3.
- Turn the ignition switch ON and turn the tester ON.
- Select the following menu items: DIAGNOSIS / OBD/MOBD / IMMOBILISER / ACTIVE TEST.
- Perform the ACTIVE TEST by referring to the table below.

Transponder key ECU:

Item	Test Details	Diagnostic Note
SECURITY INDIC	Turns security indicator light / ON or OFF	-