

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

From the DATA LIST displayed on the intelligent tester, you can read the value of the display, sensor, actuator and so on without parts removal. Reading the DATA LIST as the first step of troubleshooting is one way to shorten labor time.

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Enter the following menus: DIAGNOSIS / OBD/ MOBD / AIR CONDITIONER / DATA LIST.
- (d) Check the value(s) by referring to the table below.

ALL:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
A/C SIG	A/C signal / ON or OFF	A/C ON: ON	-

AIR CONDITIONER:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
ROOM TEMP	Room temperature sensor / min.: -6.5°C max.: 57.25°C	Actual room temperature	-
AMBI TEMP SENS	Ambient temperature sensor / min.: -23.3°C max.: 65.95°C	Actual ambient temperature	-
AMBI TEMP	Adjusted ambient temperature / min.: -30.8°C max.: 50.8°C	-	-
EVAP TEMP	Evaporator temperature sensor / min.: -29.7°C max.: 59.55°C	Actual evaporator temperature	-
SOLAR SENS-D	Solar sensor (Driver side) / min.: 0 max.: 255	Changes depending on brightness (Driver side)	-
SOLAR SENS-P	Solar sensor (Passenger side) / min.: 0 max.: 255	Changes depending on brightness (Passenger side)	-
COOLANT TEMP	Engine coolant temperature / min.: 1.3°C max.: 90.55°C	Actual engine coolant temperature	-
SET TEMP-D	Set temperature (Driver side) Celsius / min.: 0 max.: 30 Fahrenheit / min.: 32 max.: 54	Actual set temperature (Driver side)	-
SET TEMP-P	Set temperature (Passenger side) Celsius / min.: 0 max.: 30 Fahrenheit / min.: 32 max.: 54	Actual set temperature (Passenger side)	-
A/M DAMP POS-D	Air mix damper position (Driver side) / min.: -5% max.: 105%	Changes depending on the set temperature (Driver side)	-
A/M DAMP POS-P	Air mix damper position (Passenger side) / min.: -5% max.: 105%	Changes depending on the set temperature (Passenger side)	-
A/I DAMP POS	Air inlet damper position / min.: -9.0% max.: 109.0%	Changes depending on air inlet power position	-
A/O DAMP POS	Air outlet damper position / min.: 0% max.: 100%	Changes depending on air outlet power position	-
A/M DAMP TARG-D	Air mix damper target position (Driver side) / min.: -5% max.: 105%	Changes depending on the set temperature (Driver side)	-
A/M DAMP TARG-P	Air mix damper target position (Passenger side) / min.: -5% max.: 105%	Changes depending on the set temperature (Passenger side)	-
A/I DAMP TARG	Air inlet damper target position / min.: -9% max.: 109%	Changes depending on air inlet power position	-

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
A/O DAMP TARG	Air outlet damper target position / min.: 0% max.: 100%	Changes depending on air outlet power position	-
BLOWER LEVEL	Blower motor speed level / min.: Level 0 max.: Level 31	Changes depending on blower level	-
REG PRESS SENS	Regulator pressure sensor	Actual room temperature (Rear)	-
REG CTRL CURRNT	Regulator control current	-	-
#CODES	Number of Trouble Codes / min.: 0 max.: 255	-	-
HAND FREE TEL	Hand free telephone / OFF, ON	-	-
SET TEMP SHIFT	Shift set temperature / 2C decr, 1C decr, NORMAL, 1C incr, 2C incr	Changes depending on shift set temperature *1	-
AIR INLET MODE	Air inlet mode / AUTO, MANUAL	Changes depending on air inlet mode *1	-
COMPRESSOR MODE	Compressor mode / AUTO, MANUAL	Changes depending on compressor mode *1	-
COMPRS/DEF MODE	Compressor/DEF operation mode / LINK, NORMAL	Changes depending on compressor/DEF operation mode *1	-
AIR INLET OPER	Air inlet (PSW/LOCK) operation mode / LINK, NORMAL	Changes depending on air inlet (PSW/LOCK) operation mode *1	-
BUTTON PRS BUZ	Button press buzzer / OFF, ON	Changes depending on button press buzzer *1	-
FOOT/DEF OPER	Foot/DEF auto mode / OFF, ON	Changes depending on Foot/DEF auto mode *1	-
AMBIENT TMP SET	Ambient temperature shift / 3C decr, 2C decr, 1C decr, NORMAL, 1C incr, 2C incr, 3C incr	-	-

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HINT:

*1: It differs depending on the user setting.

2. ACTIVE TEST

HINT:

Performing the ACTIVE TEST using the intelligent tester allows the relay, VSV, actuator and so on to operate without parts removal. Performing the ACTIVE TEST as the first step of troubleshooting is one way to shorten labor time.

It is possible to display the DATA LIST on the intelligent tester during the ACTIVE TEST.

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Enter the following menus: DIAGNOSIS / OBD/ MOBD / AIR CONDITIONER /ACTIVE TEST.
- (d) Check the value(s) by referring to the table below.

AIR CONDITIONER:

Item	Test Details / Display (Range)	Diagnostic Note
ACTUATOR CHECK	Actuator check / OFF, ON	-
BLOWER MOTOR	Blower motor / min.: Level 0 max.: Level 31	-
AIR MIX DAMP-D	Air mix damper (Driver side) / min.: -5% max.: 105%	-
AIR MIX DAMP-P	Air mix damper (Passenger side) / min.: -5% max.: 105%	-
A/O MODE DAMP	Air outlet damper position / min.: 0% max.: 100%	-

Item	Test Details / Display (Range)	Diagnostic Note
A/I DAMP-LINEAR	Air inlet damper position (linear) / min.: -9% max.: 109%	-
A/C MAG CLUTCH	Magnetic clutch relay / OFF, ON	-
DEFOGGER RLY-R	Defogger relay (Rear) / OFF, ON	-
DEICER RLY-R	Deicer relay (Rear) / OFF, ON	-