05A58–01

PRE–CHECK

1. USING HAND–HELD TESTER

(a) Hook up the hand–held tester to the DLC3.

(b) Monitor the ECU data by following the prompts on the tester screen.

HINT:

Hand–held tester has a ”Snapshot” function which records the monitored data.

Please refer to the hand–held tester operator’s manual for further details.

2. DTC CLEAR

(a) DTC and freeze frame data can be erased by operating the hand–held tester.

3. DATA LIST

HINT:

By the DATA LIST displayed by the hand–held tester, you can read the value of the switch, sensor, actuator and so on without removing any part. Reading the DATA LIST as a first step of troubleshooting is one of the method to shorten the labor time.

(a) Connect the hand–held tester to DLC3.

(b) Turn the ignition switch to ON.

(c) According to the display on the tester, read the ”DATA LIST”.

BGW:

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
ACC SW	ACC SW signal/ ON or OFF	ON: Ignition key is in ACC, ON or START position OFF: Ignition key is in OFF position	–
IG SW	IG SW signal/ ON or OFF	ON: Ignition key is in ON or START position OFF: Ignition key is in OFF or ACC position	–
LUGG COURTSY SW	Back door courtesy SW signal/ON or OFF	ON: Back door is open OFF: Back door is closed	–
D DOR CTY SW	Driver’s door courtesy SW signal/ON or OFF	ON: Driver’s door is open OFF: Driver’s door is closed	–
P DOR CYT SW	Passenger’s door courtesy SW signal/ ON or OFF	ON: Front passenger’s door is open OFF: Front passenger’s door is closed	–
Rr DOR CTY SW	Rear door courtesy SW signal/ON or OFF	ON: Either right or left rear passenger’s door is open OFF: Both the right and left passenger’s doors and closed	–
P LOCK POS SW	Front passenger’s door lock position SW signal/ON or OFF	ON: Door lock is in unlock position OFF: Door lock is in lock position	–
Rr. LOCK POS SW	Rear passenger’s door lock position SW signal/ON or OFF	ON: Door lock is in unlock position OFF: Door lock is in lock position	–
ALT L SIG*1	Alternator (Generator) signal/ON or OFF	ON: Engine is running OFF: Engine is stopping	–
DIMMER SW*1	Headlight dimmer SW signal/ON or OFF	ON: Headlight dimmer switch is in HI or FLASH position OFF: Headlight dimmer switch is in LO position	–
HIGH FLASHER SW	Headlight dimmer SW signal/ON or OFF	ON: Headlight dimmer switch is in FLASH position OFF: Headlight dimmer switch is in except FLASH position	–
HEAD LIGHT SW	Head light control SW signal/ON or OFF	ON: Light control switch is in HEAD position OFF: Light control switch is in except HEAD position	–
TAIL LIGHT SW	Taillight SW signal/ ON or OFF	ON: Light control switch is in TAIL or HEAD position OFF: Light control switch is in OFF position	–
D LOCK POS SW*2	Driver’s door lock position SW signal/ ON or OFF	ON: Door lock is in unlock position OFF: Door lock is in lock position	–
LIGHTING TIME	Lighting time/7.5 s, 15 s or 30 s	–	–

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
I/L ON/ACC OFF	Light the I/L when ACC OFF/ON or OFF	–	–
I/L ON/UNLOCK	Interior light ON w/unlock/ON or OFF	–	–

HINT:
*1: Denmark, Sweden, Iceland, Finland and Norway models only
*2: Except G.C.C., Australia and Europe models

4. ACTIVE TEST

HINT:
Performing the ACTIVE TEST using the hand–held tester allows the relay, VSV, actuator and so on to operate without removing any part. Performing the ACTIVE TEST as a first step of troubleshooting is one of the method to shorten the labor time. The DATA LIST can be displayed during the ACTIVE TEST.

(a) Connect the hand–held tester to DLC3.
(b) Turn the ignition switch to ON.
(c) According to the display on the tester, perform the ”ACTIVE TEST”.

Item	Test Details	Diagnostic Note
HAZARD	Turn Hazard light flasher relay ON/OFF	–
HEAD LIGHT	Turn Headlight relay ON/OFF	–
HEAD LIGHT (HI)*	Turn Headlight dimmer relay (Headlight dimmer switch HI position) ON/OFF	–
TAIL LIGHT	Turn Tail light relay ON/OFF	–
ILLUMI OUTPUT	(Test Details) Turn Interior light and Key illumination ON/OFF (Vehicle Condition) Interior light SW is in Door position and all doors are closed	–
INT PANEL RLY*	Turn PANEL relay ON/OFF	–

HINT:
*: Denmark, Sweden, Iceland, Finland and Norway models only

5. ILLUMINATED ENTRY SYSTEM OPERATION CHECK

(a) The illuminated entry system is explained below:
  (1) Turn the ignition switch to OFF, close all the doors, and set the driver door in the lock condition.
  (2) Unlock the door and open any of the other doors, and check that the room light comes on. Close the door and check that the room light goes off in about 15 seconds.
  (3) Turn the ignition switch to ON and open and close any other of the doors. Check that the room light immediately goes off.
  (4) Turn the ignition switch to OFF.
  (5) Open and close any of the doors to turn the room light on. Before the room light goes off in about 15 seconds, turn the ignition switch to ON. Check that the room light goes off immediately.
  (6) Turn the ignition switch OFF.
  (7) Open and close any of the doors to turn the room light on. Before the light goes off in about 15 seconds, lock the driver door. Check that the light goes off immediately.

6. LAMP AUTO CUT OPERATION CHECK

(a) Turn the ignition switch to ON, headlight switch position is TAIL or HEAD condition.
(b) Turn the ignition switch to OFF and open the driver door, and check that the headlight goes off immediately.