05HRR–01

DATA LIST/ACTIVE TEST

1. DATA LIST

HINT:

Using the intelligent tester II DATA LIST allows switch, sensor,actuator and other items to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to shorten the labor time.

(a) Connect the intelligent tester II to the DLC3.

(b) Turn the ignition switch the ON.

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

Driver seat ECU:

Item	Measurement Item/ Display (Range)	Normal Condition
Reclin SW Rear	Reclining switch signal (Rearward)/ ON or OFF	ON: Reclining switch (Rearward) is ON OFF: Reclining switch (Rearward) is OFF
Reclin SW Front	Reclining switch signal (Forward)/ ON or OFF	ON: Reclining switch (Forward) is ON OFF: Reclining switch (Forward) is OFF
F Vtcl SW Down	Front vertical switch signal (Downward)/ ON or OFF	ON: Front vertical switch (Downward) is ON OFF: Front vertical switch (Downward) is OFF
F Vtcl SW Up	Front vertical switch signal (Upward)/ ON or OFF	ON: Front vertical switch (Upward) is ON OFF: Front vertical switch (Upward) is OFF
Lifter SW Down	Lifter switch signal (Downward)/ ON or OFF	ON: Lifter switch (Downward) is ON OFF: Lifter switch (Downward) is OFF
Lifter SW Up	Lifter switch signal (Upward)/ ON or OFF	ON: Lifter switch (Upward) is ON OFF: Lifter switch (Upward) is OFF
Slide SW Rear	Sliding switch signal (Rearward)/ ON or OFF	ON: Sliding switch (Rearward) is ON OFF: Sliding switch (Rearward) is OFF
Slide SW Front	Sliding switch signal (Forward)/ ON or OFF	ON: Sliding switch (Forward) is ON OFF: Sliding switch (Forward) is OFF
Headrest SW Dwn	Headrest switch signal (Downward)/ ON or OFF	ON: Headrest switch (Downward) is ON OFF: Headrest switch (Downward) is OFF
Headrest SW Up	Headrest switch signal (Upward)/ ON or OFF	ON: Headrest switch (Upward) is ON OFF: Headrest switch (Upward) is OFF
Cusion SW Rear	Cushion switch signal (Rearward)/ ON or OFF	ON: Cushion switch (Rearward) is ON OFF: Cushion switch (Rearward) is OFF
Cusion SW Front	Cushion switch signal (Forward)/ ON or OFF	ON: Cushion switch (Forward) is ON OFF: Cushion switch (Forward) is OFF
Power Voltage	Power supply for driver seat ECU & switch/ MIN: 0 V, MAX: 19.89 V	Within range from 11 V to 14 V
Motor Status	Motor status signal/ STANDBY or MOVING or LOCK	STANDBY: motor is idle MOVING: motor is moving LOCK: motor is locked
Vehicle Spd	Vehicle speed/ MIN: 0 km/h MAX: 255 km/h	Actual vehicle speed
IG SW	Ignition switch status/ ON or OFF	ON Ignition switch is ON OFF: Ignition switch is OFF
Key Unlock SW	Key unlock warning switch signal/ ON or OFF	ON: Key is in ignition key cylinder OFF: Key is not in ignition key cylinder
D–Door Warn SW	Door courtesy switch signal/ ON or OFF	ON: Driver side door is open OFF: Driver side door is closed
PNP SW	Shift lever position P signal/ ON or OFF	ON: Shift lever in P position OFF: Shift lever in any position except P
N SW	Shift lever position N signal/ ON or OFF	ON: Shift lever in N position OFF: Shift lever in any position except N
Push SW	Push switch signal/ ON or OFF	ON: Push switch is ON OFF: Push switch is OFF

Item	Measurement Item/ Display (Range)	Normal Condition
M3 SW	Seat memory switch M3 signal/ ON or OFF	ON: Seat memory switch M3 is ON OFF: Seat memory switch M3 is OFF
M2 SW	Seat memory switch M2 signal/ ON or OFF	ON: Seat memory switch M2 is ON OFF: Seat memory switch M2 is OFF
M1 SW	Seat memory switch M1 signal/ ON or OFF	ON: Seat memory switch M1 is ON OFF: Seat memory switch M1 is OFF
SET SW	Seat memory set switch signal/ ON or OFF	ON: Memory set switch is ON OFF: Memory set switch is OFF
Slide Pos Ini	Slide position initial flag signal/ ON or OFF	ON: Slide position initial flag is ON OFF: Slide position initial flag is OFF
Hedrst Pos Ini	Headrest position initial flag signal/ ON or OFF	ON: Operate stop flag is ON OFF: Operate stop flag is OFF
Stop Flag	Operate stop flag signal/ ON or OFF	ON: Headrest position initial flag is ON OFF: Headrest position initial flag is OFF
Slide Pos	Seat sliding position/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Reclin Pos	Seatback position/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
F Vtcl Pos	Seat front vertical position/ MIN: –4096 MAX: 4096	Within range from –4096 to 4096
Lifter Pos	Seat lifter position/ MIN: –4096 MAX: 4096	Within range from –4096 to 4096
Headrest Pos	Headrest position/ MIN: –4096 MAX: 4096	Within range from –4096 to 4096
Cushion Pos	Cushion position/ MIN: –4096 MAX: 4096	Within range from –4096 to 4096
Sld F Most Pos	Slide front most position/ MIN: –4096 MAX: 4096	Within range from –4096 to 4096
Hdrst Down Most	Headrest down most position/ MIN: –4096 MAX: 4096	Within range from –4096 to 4096
Mem M1 SW	Driving position memorized with seat memory switch M1/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized
Mem M2 SW	Driving position memorized with seat memory switch M2/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized
Mem M3 SW	Driving position memorized with seat memory switch M3/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized
Seat Mem M1	Seat position memorized with seat memory switch M1/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized
Seat Mem M2	Seat position memorized with seat memory switch M2/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized
Seat Mem M3	Seat position memorized with seat memory switch M3/ MEM or NOT MEM	MEM: Memorized NOT MEM: Not memorized
Slide Mem Pos 1	Seat sliding position memorized with seat memory switch M1/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Recln Mem Pos 1	Seatback position memorized with seat memory switch M1/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096

Item	Measurement Item/ Display (Range)	Normal Condition
F Vtcl Mem Pos 1	Front vertical position memorized with seat memory switch M1/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Lifter Mem Pos 1	Lifter position memorized with seat memory switch M1/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Hedrst Mem Pos 1	Headrest position memorized with seat memory switch M1/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Cushio Mem Pos 1	Cushion position memorized with seat memory switch M1/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Slide Mem Pos 2	Seat sliding position memorized with seat memory switch M2/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Recln Mem Pos 2	Seatback position memorized with seat memory switch M2/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
F Vtcl Mem Pos 2	Front vertical position memorized with seat memory switch M2/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Lifter Mem Pos 2	Lifter position memorized with seat memory switch M2/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Hedrst Mem Pos 2	Headrest position memorized with seat memory switch M2/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Cushio Mem Pos 2	Cushion position memorized with seat memory switch M2/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Slide Mem Pos 3	Seat sliding position memorized with seat memory switch M3/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Recln Mem Pos 3	Seatback position memorized with seat memory switch M3/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
F Vtcl Mem Pos 3	Front vertical position memorized with seat memory switch M3/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Lifter Mem Pos 3	Lifter position memorized with seat memory switch M3/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Hedrst Mem Pos 3	Headrest position memorized with seat memory switch M3/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Cushio Mem Pos 3	Cushion position memorized with seat memory switch M3/ MIN: –4096, MAX: 4096	Within range from –4096 to 4096
Head Rest Ctrl	Headrest control/ NOT AVL or AVAIL	NOT AVL: Physique compensation headrest control is not available AVAIL: Physique compensation headrest control is available

2. ACTIVE TEST

HINT:

Using the intelligent tester II ACTIVE TEST allows relay, VSV, actuator, and other items to be operated without removing any parts. Reading the ACTIVE TEST early in troubleshooting is one way to shorten the labor time. The DATA LIST can be displayed during the ACTIVE TEST.

(a) Connect the intelligent tester II to the DLC3.

(b) Turn the ignition switch ON.

(c) Perform the ACTIVE TEST according to the display on the tester.

Driver seat ECU:

Item	Test Details	Diagnostic Note
Reclining	Test detail: reclining operation FRONT/REAR Vehicle condition: stopped	–
F Vertical	Test detail: front vertical operation UP/DOWN Vehicle condition: stopped	–
Lifter	Test detail: lifter operation UP/DOWN Vehicle condition: stopped	–
Slide	Test detail: sliding operation UP/DOWN Vehicle condition: stopped	–
Headrest	Test detail: headrest operation UP/DOWN Vehicle condition: stopped	–
Cushion	Test detail: cushion length operation FRONT/REAR Vehicle condition: stopped	–