

### Diagnosis – Function Test

#### CAUTION!

Injury hazard from pinching and crushing, in extreme cases extremities can even be severed when caught in the mechanism.

#### CAUTION!

When working on components activated via hand, electrically via motors, hydraulically, pneumatically via linkages, it is possible that severe injury can result in the severing, pinching, or crushing of body parts.

Do not allow any body parts to be in the general area of the moving components.

#### Protective measures:

- Supervise work.
- Do not reach into the moving mechanism at any time during any tests.
- Keep away from the moving mechanism of components which are being activated via the HHT and or directly via circuit 30.
- Ensure that all test cables are of sufficient length.

#### Preparation for Test:

1. Fuses ok.
2. Battery voltage 11 to 14 V
3. Convenience Feature is functional.

Electrical wiring diagrams:

Electrical Troubleshooting Manual, Model 163,  
(available in Work Shop Information System [WIS] only)

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy <sup>1)</sup>
⇒ 1.0 Left front power seat Forward/Backward	Press seat fore/aft switch (S22s3) forward:	Seat moves forward.	23 ⇒2.0, 23 ⇒3.0, 23 ⇒4.0
	Press seat fore/aft switch (S22s3) backward:	Seat moves backward.	

<sup>1)</sup> Observe Preparation for Test, see 22.

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy <sup>1)</sup>
⇒ 2.0 Left front power seat Raise/lower rear seat height	Press seat height, rear switch (S22s4) upward: Push seat height, rear switch (S22s4) downward:	Seat back height raises up.  Seat back height lowers.	23 ⇒5.0, 23 ⇒6.0, 23 ⇒7.0
⇒ 3.0 Left front power seat Raise/lower front seat height	Press seat height, front switch (S22s2) upward:  Press seat height, front switch (S22s2) down:	Seat height, front raises up.  Seat height, front lowers.	23 ⇒8.0, 23 ⇒9.0, 23 ⇒10.0
⇒ 4.0 Left front power seat Seat backrest tilt	Press backrest switch (S22s5) backward:  Press backrest switch (S22s5) forward:	Seat backrest tilts to rear.  Seat backrest tilts forward.	23 ⇒11.0, 23 ⇒12.0, 23 ⇒13.0
⇒ 5.0 Right front power seat Forward/Backward	Press seat fore/aft switch (S23s3) forward:  Press seat fore/aft switch (S23s3) backward:	Seat moves forward.  Seat moves backward.	23 ⇒15.0, 23 ⇒16.0, 23 ⇒17.0
⇒ 6.0 Right front power seat Raise/lower rear seat height	Press seat height, rear switch (S23s4) upward: Push seat height, rear switch (S23s4) downward:	Seat back height raises up.  Seat back height lowers.	23 ⇒18.0, 23 ⇒19.0, 23 ⇒20.0

<sup>1)</sup> Observe Preparation for Test, see 22.

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy <sup>1)</sup>
⇒ 7.0 Right front power seat Raise/lower front seat height	Press seat height, front switch (S23s2) upward:  Press seat height, front switch (S23s2) down:	Seat height, front raises up.  seat height, front lowers.	23 ⇒21.0, 23 ⇒22.0, 23 ⇒23.0
⇒ 8.0 Right front power seat Seat backrest tilt	Press backrest switch (S23s5) backward:  Press backrest switch (S23s5) forward:	Seat backrest tilts to rear.  Seat backrest tilts forward.	23 ⇒24.0, 23 ⇒25.0, 23 ⇒26.0

<sup>1)</sup> Observe Preparation for Test, see 22.