

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.



Should there be numerous faults within ESA, then select the appropriate test steps in this section, after reviewing 14 to narrow down the faults.

Electrical wiring diagrams:

Electrical Troubleshooting Manual, Model 170, Vol. 2, Section 91, (future edition).

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Driver/passenger seat Forward/Backward	Ignition: ON Press seat fore/aft switch (S22s3/S23s3) forward/backward:	Driver/passenger seat moves forward/backward.	Driver's seat: 23 ⇒2.0, 23 ⇒3.0 Passenger seat: 23 ⇒10.0, 23 ⇒11.0

¹⁾ Observe Preparation for Test, see 22.

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Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 2.0 Driver/passenger power seat Raise/lower front seat height	Ignition: ON Press seat height, rear of switch (S22s2/S23s2) upward/downward:	Front of seat raises/lowers.	Driver's seat: 23 ⇒4.0, 23 ⇒5.0 Passenger seat: 23 ⇒12.0 23 ⇒13.0
⇒ 3.0 Driver/passenger power seat Raise/lower rear seat height	Ignition: ON Press seat height, front switch (S22s4/S23s4) upward/downward:	Rear of seat raises/lowers.	Driver's seat: 23 ⇒6.0, 23 ⇒7.0 Passenger seat: 23 ⇒14.0 23 ⇒15.0
⇒ 4.0 Driver/passenger power seat Backrest tilt forward/backward	Ignition: ON Press backrest switch (S22s5/S23s5): tilt forward/backward:	Backrest tilts forward/backward.	Driver's seat: 23 ⇒8.0, 23 ⇒9.0 Passenger seat: 23 ⇒16.0 23 ⇒17.0

¹⁾ Observe Preparation for Test, see 22.