

Diagnosis – Complaint Related Diagnostic Chart

CAUTION!

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

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

Preparation for Test:

1. Review 12, 20, 21, 31

Survey of Recallable Test Functions

Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Complete left seat adjustment does not function.	Voltage supply for left front ESA control module (N32/1) (with memory) Voltage supply for left front ESA switch group (S91/2) (with memory)	D.M., Body and Accessories, Vol. 2, section 7.1, 23 NS 23 ⇒ 18.0
Complete right seat adjustment does not function.	Voltage supply for right front ESA control module (N32/2) (with memory) Voltage supply for right front ESA switch group (S92/2) (with memory)	D.M., Body and Accessories, Vol. 2, section 7.1, 23 NS 23 ⇒ 18.0
Left seat fore/aft adjustment does not function.	Fore/aft switch (S91/2s1) Fore/aft motor (M27m1)	23 ⇒ 1.0 23 ⇒ 2.0
Right seat fore/aft adjustment does not function.	Fore/aft switch (S92/2s1) Fore/aft motor (M28m1)	23 ⇒ 1.0 23 ⇒ 2.0
Left power seat front raise/lower adjustment does not function.	Front raise/lower switch (S91/2s3) Front raise/lower motor (M27m3)	23 ⇒ 4.0 23 ⇒ 5.0

¹⁾ Observe Preparation for Test, see 22.

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Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Right power seat front raise/lower adjustment does not function.	Front raise/lower switch (S92/2s3) Front raise/lower motor (M28m3)	23 ⇒ 4.0 23 ⇒ 5.0
Left power seat rear raise/lower adjustment does not function.	Rear raise/lower switch (S91/2s2) Rear raise/lower motor (M27m2)	23 ⇒ 7.0 23 ⇒ 8.0
Right power seat rear raise/lower adjustment does not function.	Rear raise/lower switch (S92/2s2) Rear raise/lower motor (M28m2)	23 ⇒ 7.0 23 ⇒ 8.0
Left seat backrest fore/aft adjustment does not function.	Backrest fore/aft switch (S91/2s5) Backrest fore/aft motor (M27m5)	23 ⇒ 10.0 23 ⇒ 11.0
Right seat backrest fore/aft adjustment does not function.	Backrest fore/aft switch (S92/2s5) Backrest fore/aft motor (M28m5)	23 ⇒ 10.0 23 ⇒ 11.0
Left seat head restraint raise/lower adjustment raise/lower does not function.	Head restraint raise/lower switch (S91/2s4) Head restraint raise/lower motor (M27m4)	23 ⇒ 13.0 23 ⇒ 14.0
Right seat head restraint raise/lower adjustment raise/lower does not function.	Head restraint raise/lower switch (S92/2s4) Head restraint raise/lower motor (M28m4)	23 ⇒ 13.0 23 ⇒ 14.0

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Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Left or right switch illumination does not function.	Left or right front door ESA switch group (S91/2 or S92/2) (with memory) illumination	23 ⇒ 18.0
Left seat position (memory) does not function.	Left front door ESA switch group (S91/2) (with memory) CAN L/CAN H dataline Left front ESA control module with memory (N32/1)	23 ⇒ 17.0. D.M., Body and Accessories, Vol. 2, section 7.1, 23 NS
Right seat position (memory) does not function.	Right front door ESA switch group (S92/2) (with memory) CAN L/CAN H dataline Right front ESA control module with memory (N32/2)	23 ⇒ 17.0. D.M., Body and Accessories, Vol. 2, section 7.1, 23 NS
Seat adjustment does not function with left or right front door open and without ignition key: ON	Left or right front door switches (S17/3, S17/4) CAN L/CAN H dataline PSE control module (A37)	D.M., Body and Accessories, Vol. 1, section 3.4, 23 PSE. D.M., Body and Accessories, Vol. 2, section 7.1, 23 NS. D.M., Body and Accessories, Vol. 1, section 3.4, 23 PSE.
Left front power seat fore/aft adjustment, power seat rear raise/lower and fore/aft adjustment operate opposite of normal function.	Programming of left front ESA control module (N32/1) Version coding Steering column up/down switch (S91/2s11) Steering column in/out switch (S91/2s12)	31 ⇒ Seat adjustment motor vendor "Brose", "Hammerstein" programmed in error into N32/1, left hand driver/right hand drive programmed in error. 31 Check version coding. D.M., Body and Accessories, Volume 3, section 12.6b, 23 ESL.

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Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Left seat "easy entry" feature does not function with ignition switch in position "2". (Model 208 only)	Vehicle speed signal (VSS)	CAN H/L, Left front axle VSS (L6/1), Traction system control module (N47).
Left seat "easy entry" feature does not function. (Model 208 only)	Head restraint adjustment Left door switch (S17/3) Left front seatback release microswitch (S91/3) (Model 208 up to 6/98 only) Left front seatback release microswitch (S91/3) with additional left front hibernation microswitch (S91/1s2) (Model 208 as of 6/98 only) Left front seatback inclination microswitch (S91/1) Left front ESA control module (with memory) (N32/1) Head restraint raise lower motor (M27m4) Fore/aft motor (M27m1)	Fore/aft adjustment to front stop and head restraint to bottom stop. D.M., Body and Accessories, Vol. 1, section 3.4, 23 PSE 23 ⇒ 19.0 23 ⇒ 20.0 23 ⇒ 21.0 23 ⇒ 16.0 23 ⇒ 14.0 23 ⇒ 2.0

¹⁾ Observe Preparation for Test, see 22.

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Survey of Recallable Test Functions

Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Right seat "easy entry" feature does not function. (Model 208 only)	Head restraint adjustment Right door switch (S17/4) Right front seatback release microswitch (S92/3) (Model 208 up to 6/98 only) Right front seatback release microswitch (S92/3) with additional left front hibernation microswitch (S92/1s2) (Model 208 as of 6/98 only) Left front seatback inclination microswitch (S92/1) Left front ESA control module (with memory) (N32/1) Head restraint raise lower motor (M27m4) Fore/aft motor (M27m1)	Fore/aft adjustment to front stop and head restraint to bottom stop. D.M., Body and Accessories, Vol. 1, section 3.4, 23 PSE 23 ⇒ 19.0 23 ⇒ 20.0 23 ⇒ 21.0 23 ⇒ 16.0 23 ⇒ 14.0 23 ⇒ 2.0
Right seat "easy entry" feature does not function with ignition switch in position "2". (Model 208 only)	Vehicle speed signal (VSS)	CAN H/L, Left front axle VSS (L6/1) Traction system control module (N47).

¹⁾ Observe Preparation for Test, see 22.