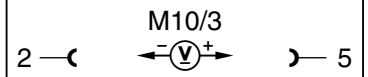
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy [1]
1.0		**Door switches (S17/3, S17/4, S17/5, S17/6)**				DM, B&A, vol. 1, 3.4, PSE, 23
2.0		**Left front door IR receiver (A26/1)** Voltage supply	4 (3) — N69/1 — 14 (3)	Disconnect connector (3) from front driver-side door control module (N69/1).	4.5 – 5.5 V	⇒ 2.1, N69/1
2.1		**Left front door IR receiver (A26/1)**	1 — A26/1 — 2	Remove A26/1	4.5 – 5.5 V	Wiring.
3.0		**Right front door IR receiver (A26/2)** Voltage supply	4 (3) — N69/2 — 14 (3)	Disconnect connector (3) from front passenger-side door control module (N69/2).	4.5 – 5.5 V	⇒ 3.1, N69/2
3.1		**Right front door IR receiver (A26/2)**	2 — A26/2 — 3	Remove A26/2	4.5 – 5.5 V	Wiring.

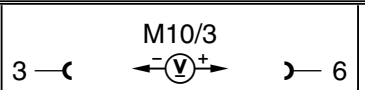
[1] Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
4.0	B1120	**Left front power window switch (N72s1)**		Ignition: **ON** Switch (N72s1): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 DOWN AUTO. DOWN UP AUTO. UP	Lower control field control module (N72).
5.0	B1520	**Activation of:** **Left front power window motor (M10/3) via front driver-side door control module (N69/l)**		Disconnect connector from M10/3. Ignition: **ON** Switch (N72s1): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	Relay in control module N69/1 engages audibly. For approx. 1 second: 11 – 14 V 11 – 14 V –11 to –14 V –11 to –14 V	Wiring, ⇒ 4.0, N69/1

1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
6.0	B1520	**Left front power window motor (M10/3)** Voltage supply Hall sensor	M10/3  3 — 6	Ignition: **ON** Disconnect connector from M10/3	11 – 14 V	Wiring, Front driver-side door control module (N69/I).
7.0	B1520	**Left front power window motor (M10/3)** Hall sensor		Ignition: **ON** Switch (N72s1): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 Window opens, raising values. Window closes, falling values.	Hall sensor

1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
8.0		**Left front power window switch (S21/1)** **Model 208.4 only**	N52 30 — V — 36	Ignition: **ON** Switch (S21/1) in position: 0 DOWN AUTO. DOWN UP AUTO. UP	 approx. 14 V approx. 8.5 V approx. 0 V approx. 5 V approx. 2.5 V	If one value is not OK, S21/1, If several values are not OK, ⇒ 8.1 All values are OK, ⇒ 8.2
8.1		Resistance Model 208.4 only	N52 30 — Ω — 36	Ignition: **OFF** Disconnect connector from N52, Switch (S21/1) in position: 0 DOWN AUTO. DOWN UP AUTO. UP	 > 20 kΩ approx. 900 Ω approx. 0 Ω approx. 510 Ω approx, 125 Ω	If one value is not OK, S21/1, If several values are not OK, Wiring, S21/1, All values are OK, N52
8.2		Switch illumination Model 208.4 only	S21/1 1 — V — 3	Disconnect connector from S21/1, Light switch S1 (58d) **ON**; Set combination display (A1) at max setting	 approx. 11 V	Wiring, S21/1

1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
9.0	B1121	**Right front power window switch (N72s2)**		Ignition: **ON** Switch (N72s2): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 DOWN AUTO. DOWN UP AUTO. UP	Lower control field control module (N72).
10.0	B1520	**Activation of:** **Right front power window motor (M10/4) via front passenger-side door control module (N69/2)**	M10/4 2 — (–) (V) (+) — 5	Disconnect connector from M10/4. Ignition: **ON** Switch (N72s2): Press **back** of switch: Press **back** of switch past, first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	Relay in control module N69/2 engages audibly. For approx. 1 second: 11 – 14 V 11 – 14 V –11 to –14 V –11 to –14 V	Wiring, ⇒ 8.0, N69/2

1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
11.0	B1520	**Right front power window motor (M10/4)** Voltage supply Hall sensor	M10/4 3 — ◄ –V+ ► — 6	Ignition: **ON** Disconnect connector from M10/4	11 – 14 V	Wiring, N69/2
12.0	B1520	**Right front power window motor (M10/4)** Hall sensor		Ignition: **ON** Switch (N72s2): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 Window opens, raising values. Window closes, falling values.	Hall sensor

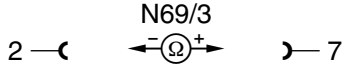
1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
13.0		**Right front power window switch (S21/2)** **Model 208.4 only**	N52 49 — 17	Ignition: **ON** Switch (S21/2) in position: 0 DOWN AUTO, DOWN UP AUTO, UP	11 – 14 V approx. 14 V approx. 8.5 V approx. 0 V approx. 5 V approx. 2.5 V	If one value is not OK, S21/2, If several values are not OK, ⇒ 13.1 All values are OK, ⇒ 13.2
13.1		Resistance Model 208.4 only	N52 49 — 17	Ignition: **OFF** Disconnect connector from N52 Switch (S21/2) in position: 0 DOWN AUTO, DOWN UP AUTO, UP	> 20 kΩ approx. 900 Ω approx. 0 Ω approx. 510 Ω approx. 125 Ω	If one value is not OK, S21/2, If several values are not OK, Wiring, S21/2 All values are OK, N52
13.2		Switch illumination Model 208.4 only	S21/1 1 — 3	Disconnect connector from S21/2 Light switch S1 (58d) ON; Set combination display (A1) at max setting	approx. 11 V	Wiring, S21/2

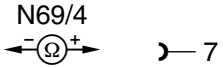
1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
14.0	B1122	**Left rear power window switch (N72s3)**		Ignition: **ON** Switch (N72s3): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 DOWN AUTO. DOWN UP AUTO. UP	Lower control field control module (N72).
15.0	B1155 B1407	**Left rear power window switch (S21/3)**		Ignition: **OFF** Switch (S21/3): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 1240 Ω 330 Ω 510 Ω 660 Ω	Wiring, S21/3

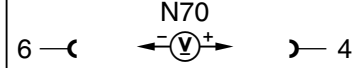
1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
16.0	B1123	**Right rear power window switch (N72s4)**		Ignition: **ON** Switch (N72s4): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 DOWN AUTO. DOWN UP AUTO. UP	Lower control field control module (N72).
17.0	B1155 B1407	**Right rear power window switch (S21/4)**		Ignition: **OFF** Switch (S21/4): Press **back** of switch: Press **back** of switch past first detent and hold: Press **front** of switch: Press **front** of switch past first detent and hold:	 1240 Ω 330 Ω 510 Ω 660 Ω	Wiring, S21/4

1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
18.0		**Child safety lock switch (N72s5)**		Ignition: **ON** Switch (N72s5): Push switch to right: (Child symbol visible) Push switch to left: (Child symbol not visible)	 LOCKED UNLOCKED	Lower control field control module (N72).
19.0	B1520	**Sliding/pop-up roof motor (M12/1m1)** Hall sensors		Ignition: **ON** Press sliding/pop-up roof (SR) switch (N70s1): Press switch **forward**: Press switch **backward**:	 Sliding roof closes, raising values. Sliding roof opens, falling values.	⇒20.0
20.0	B1520	**Sliding/pop-up roof motor (M12/1m1)** Voltage supply Hall sensor		Disconnect connector (B) from N70 Ignition: **ON**	11 – 14 V	Roof control panel control module (N70).

1) Observe Preparation for Test, see 22.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1]
21.0	B1118	**Sliding/pop-up roof (SR) switch (N70s1)**		Ignition: **ON** Switch (N70s1): Press switch **backward:** Press switch **forward:** Push switch **up:** Pull switch **down:**	 OPENING CLOSING OPENING CLOSING	Roof control panel control module (N70).
22.0		**Voltage supply from front driver-side door control module (N69/l) to left front door lock switch (CF) (S86/1)[2]**	N69/1 1 (2) – V + +		11 – 14 V	Front driver-side door control module (N69/1).
23.0	B1100 B1101	**Left front door lock switch (CF) (S86/1)[2]**	N69/1 2 (2) – V + 3 (2)	With key in left front door lock: **Lock**: **Rest position:** **Unlock**:	 <1 Ω >20 kΩ <1 Ω	Wiring, S86/1

1) Observe Preparation for Test, see 22.

2) (only USA J)

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy[1)]
25.0		***Non-USA vehicles only, continue to next test step.***				
25.0		***Non-USA vehicles only, continue to next test step.***				
26.0		**Trunk lid lock switch (CF) (S88/2)**	A37 11 (1) — Ω — 21 (1)	With key in trunk lid lock: **Lock:** **Rest position:** **Unlock:**	 <1 Ω >20 kΩ <1 Ω	Wiring, S88/2

1) Observe Preparation for Test, see 22.