Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	1010 1012	**BAS control module (N48)** Circuit 87 Voltage supply	N48 1 (1.1) — V — 3 (1.3)	Ignition: **ON**	11 – 14 V	⇒ 1.1, ⇒ 1.2
1.1		Voltage supply from: **Models 129, 140** Base module (N16/1) **Models 202, 208, 210** Driver-side fuse and relay module box (K40/2)	N48 ⊥ — V — 3 (1.3)	Ignition: **ON**	11 – 14 V	Wiring, **Model 129, 140:** Fuse (F3) on N16/1, N16/1, DM, Chassis & Drivetrain, Vol. 1, sections 1.1, 23
1.2		Ground wire **Model 140** **Model 170** **Model 129** **Models 202, 208** **Model 210**	N48 W15 W35 W27 W29/2 W16/3 Ω — 1 (1.1)	Ignition: **OFF** Disconnect BAS control module (N48).	< 1 Ω	Wiring, **Model 140:** Ground (electronics ground output-right footwell) (W15). **Model 129:** Ground (control module box/module box) (W27). **Model 170:** Ground (left front spring tower) (W35). **Models 202, 208:** Ground (right A-pillar) (W29/2). **Model 210:** Ground (output ground - left wheel housing ground) (W16/3).

Electrical Test Program – Test

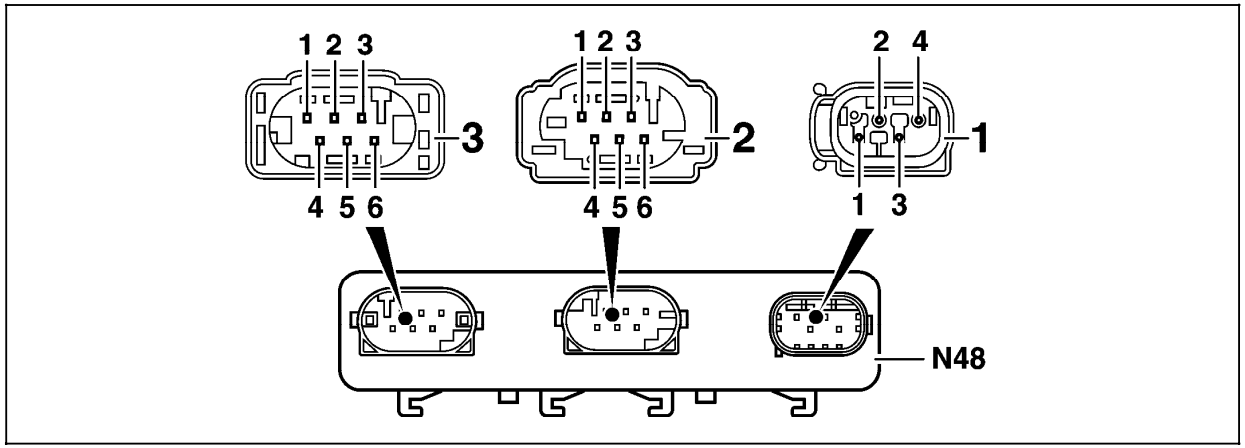
⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0	C 1010 C 1011 C 1012	**BAS control module (N48)** Circuit 30 Voltage supply	N48 1 (1.1) — V — 4 (1.4)	Ignition: **OFF**	11 – 14 V	Wiring.
3.0		**Diagnosis output**	N48 1 (1.1) — V — 6 (1.6)	Ignition: **ON**	1 – 2 V	Wiring, BAS control module (N48).
4.0	C 1322	**Solenoid valve (BAS) (A7/7y1)** Voltage supply	N48 1 (1.1) — V — 12 (2.6)	Ignition: **ON**	4.0 – 5.5 V	⇒ 4.1, Wiring, BAS control module (N48).
4.1		Resistance	N48 9 (2.3) — Ω — 12 (2.6)	Ignition: **OFF** Disconnect BAS control module (N48).	1 – 2 Ω	Wiring, Brake booster (BAS) (A7/7).

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	C 1204 C 1205 C 1206 C 1207	**Membrane travel sensor (BAS) (A7/7b1)** Voltage supply	N48 1 (1.1) — V — 13 (3.1)	Ignition: **ON**	4.75 – 5.25 V	Wiring, BAS control module (N48).
5.1		Ground	N48 14 (3.2) — V — 4 (1.4)	Ignition: **ON**	11 – 14 V	

Electrical Test Program – Test

Connector Layout - BAS control module (N48)



P42.31-0204-10

c	Connector 1
1	Membrane travel sensor (A7/7b1) (BAS) (+)
2	Membrane travel sensor (A7/7b1) (BAS) (–)
3	—
4	Membrane travel sensor (A7/7b1) (BAS), signal

b	Connector 2
1	Release switch (BAS) (A7/7s1) N.C. contact
2	Release switch (BAS) (A7/7s1) N.O. contact
3	Solenoid valve (BAS) (A7/7y1) (–)
4	—
5	Release switch (BAS) (A7/7s1) signal
6	Solenoid valve (BAS) (A7/7y1) (+)

a	Connector 3 (black)
1	Ground (W15, W16/3, W27, W29/2)
2	CAN data line (+)
3	Circuit 87, voltage supply
4	Circuit 30, voltage supply
5	CAN data line (–)
6	Diagnosis output
N48	BAS control module