
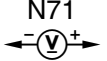
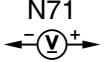
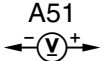
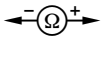


## 1.4 Headlamp Range Adjustment (HRA)

Models 202, 208, 210

### Electrical Test Program – Test for Models 208, 210






⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		<b>Headlamp range adjustment control module (N71)</b> Voltage supply	3 —(  )— 14	Disconnect connector from N71. Ignition: <b>ON</b>	11 – 14 V	<b>Model 208:</b> Fuse 13 in fuse and relay box (F1).  <b>Model 210:</b> Fuse 13 in fuse and relay box (F1).
2.0		Activation voltage from illumination control module (N7-1)	3 —(  )— 7	Disconnect connector from N71. Parking lamps: <b>ON</b>	5.6 – 9.8 V	Wiring, Illumination control module (N7-1),
3.0		Rear axle headlamp range adjustment sensor (A51) voltage supply	1 —(  )— 5 	Disconnect connector from rear axle headlamp range adjustment sensor.(A51). Ignition: <b>ON</b>	4.9 - 5.1 V  < 5 Ω	Wiring. Illumination control module (N7-1), ⇒ 3.1



## 1.4 Headlamp Range Adjustment (HRA)

Models 202, 208, 210



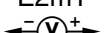


### Electrical Test Program – Test for Models 208, 210

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0		Headlamp range adjustment motor (E1m1). Voltage supply	1 —(  )— 3 E1m1	Disconnect connector from headlamp range adjustment motor (E1m1). Ignition: <b>ON</b>	4.9 – 5.1 V	Wiring, Illumination control module (N7-1), ⇒ 5.1
5.1		Signal voltage sensor	1 —(   )— 2 E1m1	Headlamp range adjustment motor (E1m1) <b>connected</b> . Ignition: <b>ON</b>	0.2 - 4.9 V  < 5 Ω	.Headlamp range adjustment motor (E1m1) ⇒ 5.2
5.2		Voltage supply motor.	4 —(  )— 5 E1m1	Disconnect connector from headlamp range adjustment motor (E1m1).  Activate headlamp range adjustment motor (E1m1). Ignition: <b>ON</b>	6 - 14 V	Wiring, Illumination control module (N7-1),

## 1.4 Headlamp Range Adjustment (HRA)

Models 202, 208, 210

### Electrical Test Program – Test for Models 208, 210

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
6.0		Headlamp range adjustment motor (E2m1). Voltage supply	1 —(  )— 3 E2m1	Disconnect connector from headlamp range adjustment motor (E2m1). Ignition: <b>ON</b>	4.9 – 5.1 V	Wiring, Illumination control module (N7-1), ⇒ 6.1
6.1		Signal voltage sensor	1 —(   )— 2 E2m1	Headlamp range adjustment motor (E2m1) <b>connected</b> . Ignition: <b>ON</b>	0.2 - 4.9 V  < 5 Ω	.Headlamp range adjustment motor (E1m1) ⇒ 6.2
6.2		Voltage supply motor.	4 —(  )— 5 E2m1	Disconnect connector from headlamp range adjustment motor (E2m1).  Activate headlamp range adjustment motor (E2m1). Ignition: <b>ON</b>	6 - 14 V	Wiring, Illumination control module (N7-1),