




Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0		Left low beam Xenon headlamp (E1e8) Voltage at illumination control module (N7-1) Models 208, 210		N7-1 F8 Remove fuse (N7-1 F8) and check voltage using rest current maintenance unit. Low beam: ON	11 – 14 V	Wiring, (N7-1), ⇒ 1.1
1.1		Voltage and amperage at illumination control module (N7-1)	 N7-1 F8 Inductive pickup	N7-1 F8 Remove fuse (N7-1 F8). Review Figure 1 and attach multimeters and test cables as shown. ⚠ CAUTION! Observe multimeter amps reading when switching on low beam. Low beam: ON After approx. 30 seconds measure voltage (U) and amps (I), then calculate wattage (P).	40±5W (P = U x I)	A brief amp flow is noted only when first switching on: Xenon headlamp (D2R, 35W) ^{1) 2)} . Wattage < 35W or > 45W: Xenon headlamp control module (E1n1) with Xenon headlamp ignition module (E1n2) ²⁾ .


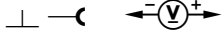
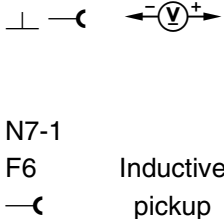
1) To prevent damage to new installed Xenon lamps (D2R, 35W), be certain to check system output (watts) output prior to lamp installation.

2) Replace complete headlamp unit as necessary.

1.2 Xenon Headlamps

Models 202, 208, 210

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.0		Right low beam Xenon headlamp (E2e8) Voltage at illumination control module (N7-1) Models 208, 210		Remove fuse (N7-1 F6) and check voltage using rest current maintenance unit. Low beam: ON	11 – 14 V	Wiring, (N7-1), ⇒ 2.1
2.1		Voltage and amperage at illumination control module (N7-1)		Remove fuse (N7-1 F6). Review Figure 1 and attach multimeters and test cables as shown. ⚠ CAUTION! Observe multimeter amps reading when switching on low beam. Low beam: ON After approx. 30 seconds measure voltage (U) and amps (I), then calculate wattage (P).	40±5W (P = U x I)	A brief amp flow is noted only when first switching on: Xenon headlamp (D2R, 35W) ^{1) 2)} . Wattage < 35W or > 45W: Xenon headlamp control module (E2n1) with Xenon headlamp ignition module (E2n2) ²⁾ .





1) To prevent damage to new installed Xenon lamps (D2R, 35W), be certain to check system output (watts) output prior to lamp installation.

2) Replace complete headlamp unit as necessary.

1.2 Xenon Headlamps

Models 202, 208, 210

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.0		Left low beam Xenon headlamp (E1e8) Voltage at fuse and relay box (F1). Model 202		F1 f34 Remove fuse (F1f34) and check voltage using rest current maintenance unit. Low beam: ON	11 – 14 V	Wiring, ⇒ 1.1
3.1		Voltage and amperage at fuse and relay box (F1).	 F1 f34  Inductive pickup	F1 f34 Remove fuse (F1f34). Review Figure 1 and attach multimeters and test cables as shown. CAUTION! Observe multimeter amps reading when switching on low beam. Low beam: ON After approx. 30 seconds measure voltage (U) and amps (I), then calculate wattage (P).	40±5W (P = U x I)	A brief amp flow is noted only when first switching on: Xenon headlamp (D2R, 35W) ^{1) 2)} . Wattage < 35W or > 45W: Xenon headlamp control module (E1n1) with Xenon headlamp ignition module (E1n2) ²⁾ .




1) To prevent damage to new installed Xenon lamps (D2R, 35W), be certain to check system output (watts) output prior to lamp installation.

2) Replace complete headlamp unit as necessary.

1.2 Xenon Headlamps

Models 202, 208, 210

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0		Right low beam Xenon headlamp (E2e8) Voltage at Fuse and relay box (F1). Model 202		Remove fuse (F1f33) and check voltage using rest current maintenance unit. Low beam: ON	11 – 14 V	Wiring, (N7-1), ⇒ 2.1
4.1		Voltage and amperage at fuse and relay box (F1).	 F1 f33 Inductive pickup	Remove fuse (N7-1 F6). Review Figure 1 and attach multimeters and test cables as shown. CAUTION! Observe multimeter amps reading when switching on low beam. Low beam: ON After approx. 30 seconds measure voltage (U) and amps (I), then calculate wattage (P).	40±5W (P = U x I)	A brief amp flow is noted only when first switching on: Xenon headlamp (D2R, 35W) ^{1) 2)} . Wattage < 35W or > 45W: Xenon headlamp control module (E2n1) with Xenon headlamp ignition module (E2n2) ²⁾ .

1) To prevent damage to new installed Xenon lamps (D2R, 35W), be certain to check system output (watts) output prior to lamp installation.

2) Replace complete headlamp unit as necessary.

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Connection diagram – Amperage and Voltage Measurement

⚠ CAUTION!
 An inductive pickup must be used during amperage measurement, since high amps will be present when the Xenon headlamps are first switched on.

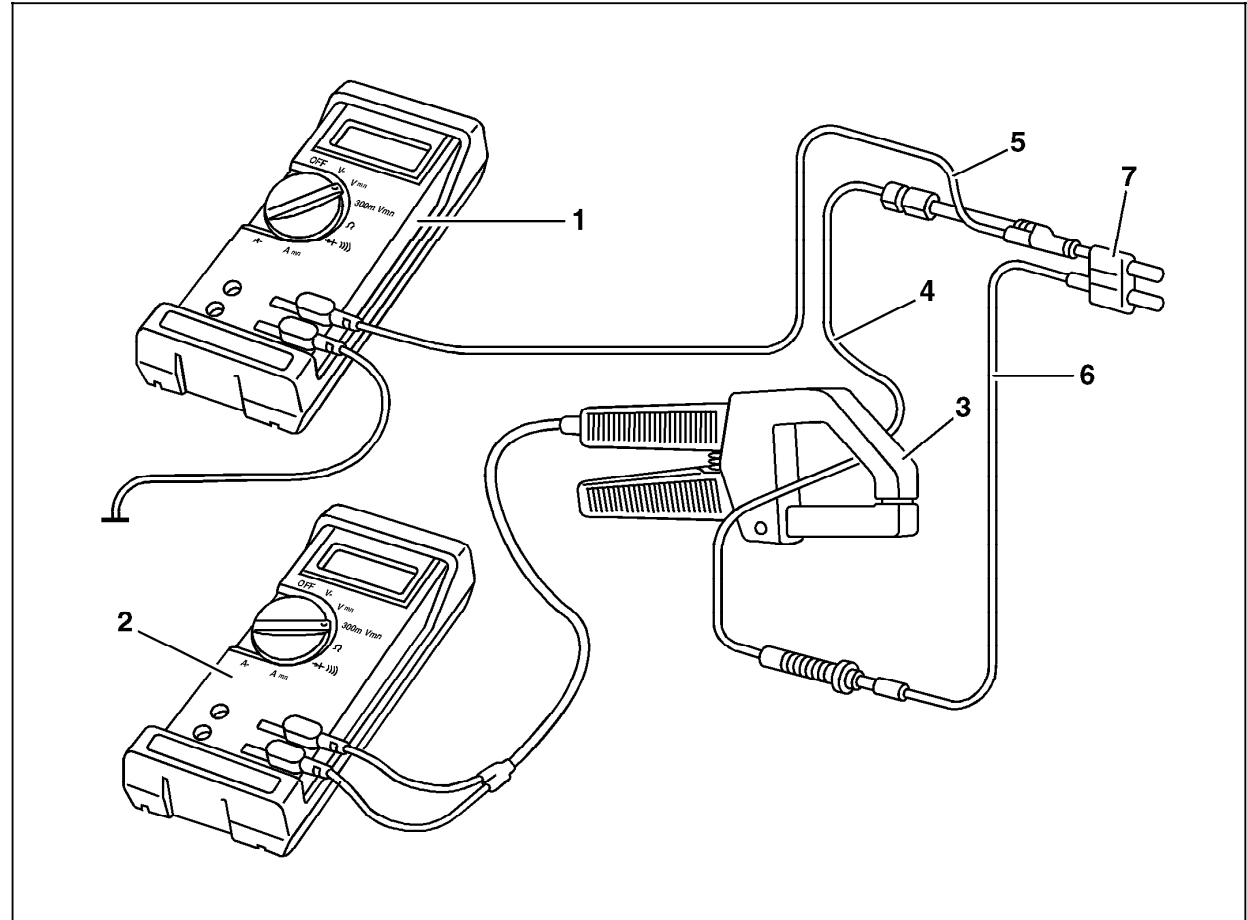


Figure 1

- 1 Multimeter (voltage measurement)
- 2 Multimeter (amperage measurement)
- 3 Inductive pickup
- 4 Fused test cable
- 5 Measurement test cable
- 6 Adapter test cable
- 7 Rest current maintenance unit

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