
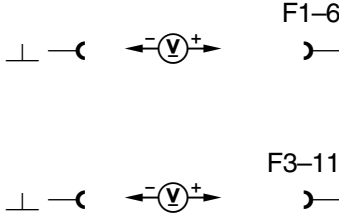





Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy ^{1) 2)}
1.0		<p>Left low beam Xenon headlamp (E1e8)</p> <p>Model 129 Voltage at fuse and relay box (F1)</p> <p>Model 140 Voltage at fuse box (35-fuse) (F3) in fuse and relay box (F1)</p>	 <p>The diagrams show a voltmeter (V) connected across the terminals of fuse F1-6 for Model 129 and fuse F3-11 for Model 140. The voltmeter symbol has a '-' sign on the left and a '+' sign on the right. The fuse terminals are represented by a vertical line with a semi-circle on the left and a horizontal line on the right.</p>	<p>Remove Fuse (F1-6) or Fuse (F3-11) and check voltage using rest current maintenance unit. Low beam: ON</p>	11 – 14 V	Wiring, ⇒ 1.1

- 1) To prevent damage to new installed Xenon lamps (D2R, 35W), be certain to check system output (watts) prior to lamp installation.
- 2) Replace complete headlamp unit as necessary.


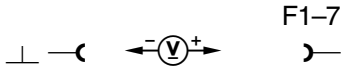
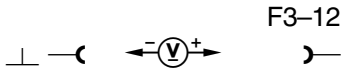
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.1		<p>Model 129 Voltage and amperage at fuse and relay box (F1)</p> <p>Model 140 Voltage and amperage at fuse box (35–fuse) (F3) in fuse and relay box (F1).</p>	<p></p> <p>F1-6 Inductive pickup</p> <p></p> <p>F3-11 Inductive pickup</p>	<p>Remove Fuse (F1-6) or fuse (F3-11). Review Figure 1 and attach multimeters and test cables as shown.</p> <p>CAUTION! Observe multimeter amp reading when switching on low beam.</p> <p>Low beam: ON After approx. 30 seconds measure voltage (U) and amps (I), then calculate wattage (P).</p>	<p>40±5W (P = U x I)</p>	<p>A brief amp flow is noted only when first switching on: Xenon headlamp (D2R, 35W)^{1) 2)}</p> <p>Wattage < 35W or > 45W: Xenon headlamp control module (E1n1) with Xenon headlamp ignition module (E1n2)²⁾.</p>

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




2) Replace complete headlamp unit as necessary.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy ^{1) 2)}
2.0		<p>Right low beam Xenon headlamp (E2e8)</p> <p>Model 129 Voltage at fuse and relay box (F1)</p> <p>Model 140 Voltage at fuse box (35-fuse) (F3) in fuse and relay box (F1)</p>	 	<p>Remove Fuse (F1–7) or Fuse (F3–12) and check voltage using rest current maintenance unit.</p> <p>Low beam: ON</p>	11 – 14 V	Wiring, ⇒ 2.1

- 1) To prevent damage to new installed Xenon lamps (D2R, 35W), be certain to check system output (watts) prior to lamp installation.
- 2) Replace complete headlamp unit as necessary.

Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.1		<p>Model 129 Voltage and amperage at fuse and relay box (F1)</p> <p>Model 140 Voltage and amperage at fuse box (35–fuse) (F3) in fuse and relay box (F1).</p>	 <p>F1-7 Inductive pickup</p>  <p>F3-12 Inductive pickup</p>	<p>Remove Fuse (F1–6) or fuse (F3–12). Review Figure 1 and attach multimeters and test cables as shown.</p> <p>CAUTION! Observe multimeter amp reading when switching on low beam.</p> <p>Low beam: ON After approx. 30 seconds measure voltage (U) and amps (I), then calculate wattage (P).</p>	<p>40±5W (P = U x I)</p>	<p>A brief amp flow is noted only when first switching on: Xenon headlamp (D2R, 35W)^{1) 2)}</p> <p>Wattage < 35W or > 45W: Xenon headlamp control module (E1n1) with Xenon headlamp ignition module (E1n2)²⁾.</p>

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

2) Replace complete headlamp unit as necessary.

Electrical Test Program – Test

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.

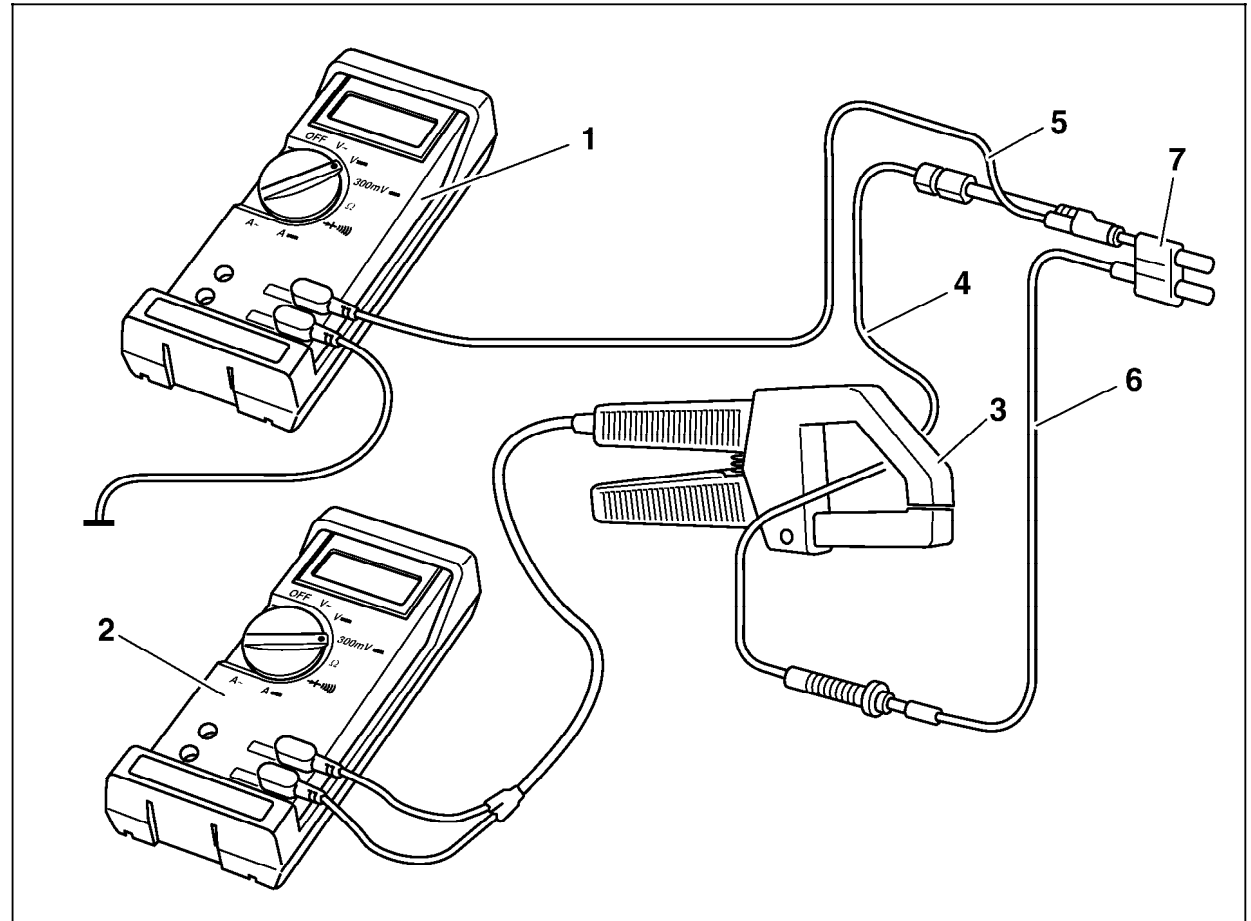


Figure 1

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

P82.10-0291-57