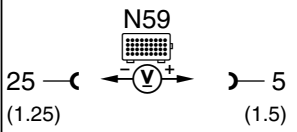
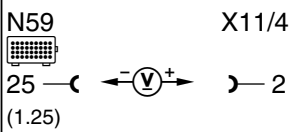
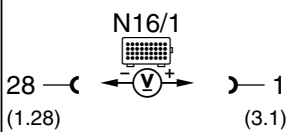

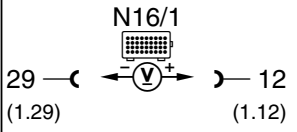


## Electrical Test Program - Test

Test step <b>DTC</b>	Scope of test	Test connection	Test condition	Nominal value	Possible cause/remedy
⇒ 1.0	<b>Diagnostic module (N59)</b> Voltage supply Circuit 30		Ignition: <b>ON</b>	11 – 14 V	⇒ 1.1 – 1.3.
⇒ 1.1	Ground, output ground, electronics (W15) (right footwell)		Ignition: <b>ON</b>	11 – 14 V	Ground wire at W15.
⇒ 1.2	Base module (N16/1) Voltage supply Circuit 30		<b>Connect socket box to N16/1.</b> Ignition: <b>ON</b>	11 – 14 V	Wire to terminal block (X4/10).
⇒ 1.3	 Diagnostic trouble code from base module (N16/1) Voltage supply from N16/1 to diagnostic module (N59) Circuit 30		Ignition: <b>ON</b>	11 – 14 V	N16/1.

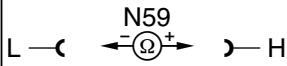
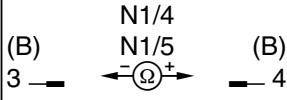
#### Electrical Test Program - Test

Test step <b>DTC</b>	Scope of test	Test connection	Test condition	Nominal value	Possible cause/remedy
⇒ 2.0	<b>Diagnostic module (N59)</b> Voltage supply Circuit 87L		Ignition: <b>ON</b>	11 – 14 V	⇒ 2.1 – 2.2.
⇒ 2.1	Base module (N16/1) Voltage supply Circuit 15, unfused		<b>Connect socket box to N16/1.</b> Ignition: <b>ON</b>  Ignition: <b>OFF</b>	11 – 14 V  <1 V	Open circuit, Ignition/starter switch (S2/1).  Open circuit, S2/1.
⇒ 2.2	 Diagnostic trouble code from base module (N16/1) Voltage supply (fused) for right LH-SFI control module (N3/3)		Ignition: <b>ON</b>  Ignition: <b>OFF</b>	11 – 14 V  <1 V	Fuse (F2) at N16/1, N16/1.

Electrical Test Program - Test

Test step <b>DTC</b>	Scope of test	Test connection	Test condition	Nominal value	Possible cause/remedy
⇒ 3.0	<b>Control of "CHECK ENGINE" MIL</b>		Ignition: <b>ON</b>	11 – 14 V	N59.
⇒ 4.0	<b>Control of diagnostic wire</b>		Ignition: <b>ON</b>	11 – 14 V	Open circuit, N59.
⇒ 5.0	<b>Control of DM test connector pushbutton (X11/21s1)</b>		Ignition: <b>ON</b> Press pushbutton (X11/21s1).	11 – 14 V	Open circuit, DM test connector (X11/21), N59.

Electrical Test Program - Test

Test step <b>DTC</b>	Scope of test	Test connection	Test condition	Nominal value	Possible cause/remedy
⇒ 6.0	<b>CAN data bus</b>		Ignition: <b>OFF</b> Pull out contact module or diagnostic module. Test with ohmmeter directly at the the two wide connections of the diagnostic module test connector (see Figure 2).	55 – 65 Ω	Data line, ⇒ 6.1.
⇒ 6.1	CAN interface in left and right DI control modules (N1/4 and N1/5) Resistance		Unplug connector “B” at left/right DI control module. Test directly at left/right DI control module (see Figure 3).	115 – 125 Ω	Left/right DI control module.

Electrical Test Program - Test

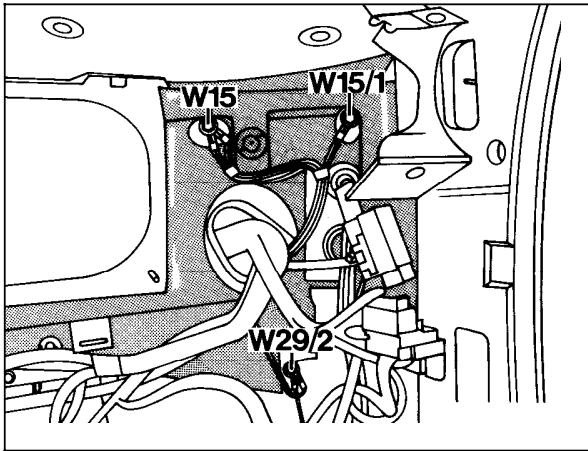


Figure 1

P54-2796-13

- W15 Ground (electronics output ground right footwell)
- W15/1 Ground (electronics right footwell)
- W29/2 Ground (right A-pillar)

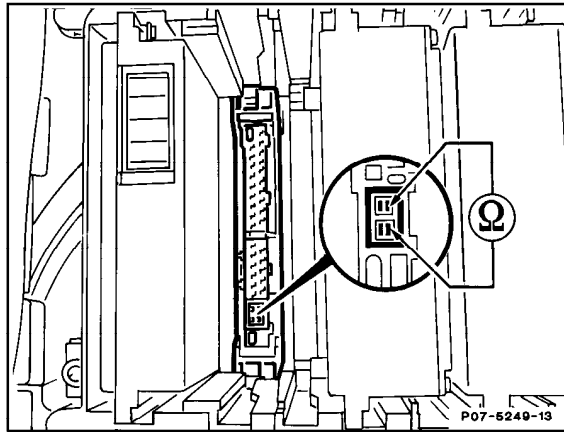


Figure 2

P07-5249-13

- N59x Diagnostic module connector

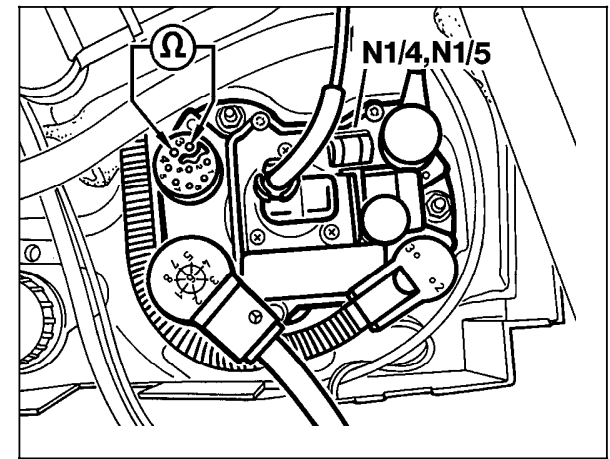


Figure 3

P15-5058-13

- N1/4 Left DI control module
- N1/5 Right DI control module