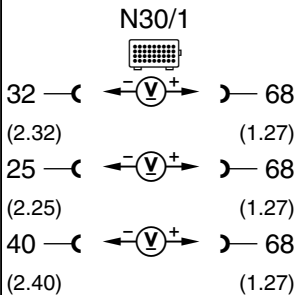**Electrical Test Program - Test**
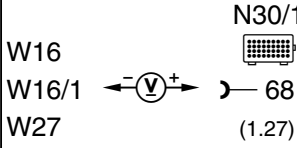
Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	**ABS/ASR control module (N30/1)** Voltage supply Circuit 87	N30/1 [image] 32 —(←=Ⓥ+→)— 68 (2.32) (1.27) 25 —(←=Ⓥ+→)— 68 (2.25) (1.27) 40 —(←=Ⓥ+→)— 68 (2.40) (1.27)	Ignition: **ON**	11– 14 V	⇒ 1.1
⇒ 1.1	Voltage supply from base module (BM) (N16/1)	N30/1 [image] W16 W16/1 ←=Ⓥ+→)— 68 W27 (1.27)	Ignition: **ON**	11 – 14 V	Fuse (F1) in N16/1, 1.1 or 1.2 23, Wiring, ⇒ 1.2.

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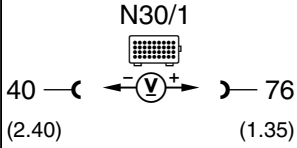**Electrical Test Program - Test**

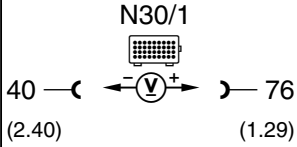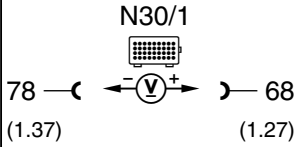| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.2	Ground wire	N30/1 ⬛ **Model 124** W27 ◄–(Ω)+►)— 32 (1.32) W16 ◄–(Ω)+►)— 25 (2.25) W16 ◄–(Ω)+►)— 40 (2.40) **Model 129** W27 ◄–(Ω)+►)— 32 (1.32) W27 ◄–(Ω)+►)— 25 (2.25) W27 ◄–(Ω)+►)— 40 (2.40) **Model 140** W16/1 ◄–(Ω)+►)— 32 (1.32) W16/1 ◄–(Ω)+►)— 25 (2.25) W16/1 ◄–(Ω)+►)— 40 (2.40)	Ignition: **OFF**	< 1 Ω	Wiring, **Model 124** Ground (W16), Ground (W27). **Model 129** Ground (W27). **Model 140** Ground (W16/1).

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Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 2.0	**ABS MIL (A1e17)**	N30/1 40 —(←⁻(V)⁺→)— 76 (2.40) (1.35)	Ignition: **ON** Engine: **at Idle**	< 2 V A1e17: **ON** 10 – 14 V A1e17: **OFF**	A1e17, ⇒ 2.1 12, Wiring, N30/1.
⇒ 2.1	Diode in ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1)	—	Ignition: **OFF** Disconnect N30/1 from contact box. Ignition: **ON** Engine: **at Idle**	 A1e17: **ON** A1e17: **ON**	Wiring, A7/3k1.

Electrical Test Program - Test

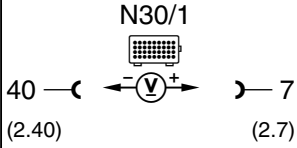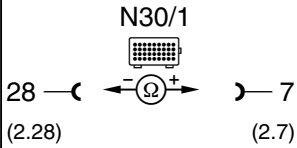| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 3.0	**ASR MIL (A1e22)**	N30/1 ▦ 40 —(◄–Ⓥ⁺►)— 76 (2.40) (1.29)	Ignition: **ON** Engine: **at Idle**	< 2 V A1e22: **ON** 10 – 14 V A1e22: **OFF**	A1e22, ⇒ 3.1 12, Wiring, N30/1.
⇒ 3.1	Diode in ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1)	—	Ignition: **OFF** Disconnect N30/1 from contact box. Ignition: **ON** Engine: **at Idle**	 A1e22: **ON** A1e22: **ON**	Wiring, A7/3k1.
⇒ 4.0	**ASR warning lamp (A1e21)**	N30/1 ▦ 78 —(◄–Ⓥ⁺►)— 68 (1.37) (1.27)	Ignition: **ON** Engine: **at Idle**	A1e21: **ON** 10 – 14 V A1e21: **OFF** < 2 V	Wiring, A1e21.

Electrical Test Program - Test

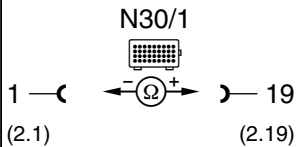| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 5.0	**Diagnosis output**	N30/1 40 —(←=Ⓥ+→)— 57 (2.40) (1.16)	Ignition: **ON**	10 – 14 V	Wiring, N30/1.
⇒ 6.0	**Circuit 61e voltage**	N30/1 40 —(←=Ⓥ+→)— 66 (2.40) (1.25)	Ignition: **ON** Engine: **at Idle**	< 1 V 11 – 14 V	Wiring, Generator (G2).
⇒ 7.0	**ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1)** Control Monitoring	N30/1 27 —(←=Ⓥ+→)— 7 (2.27) (2.7) N30/1 40 —(←=Ⓥ+→)— 1 (2.40) (2.1) 40 —(←=Ⓥ+→)— 21 (2.40) (2.21) 40 —(←=Ⓥ+→)— 22 (2.40) (2.22)	Ignition: **ON**	10 – 14 V 11 – 14 V	12, ⇒ 7.1.

Electrical Test Program - Test

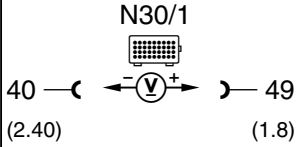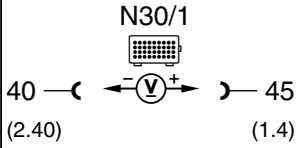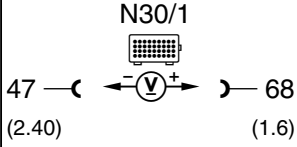| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 7.1	Voltage supply	N30/1 40 —⟨ ◄–Ⓥ⁺► ⟩— 7 (2.40) (2.7)	Ignition: **ON**	11 – 14 V	Wiring, ⇒ 1.0, N30/1, ⇒ 7.2.
⇒ 7.2	Coil resistance	N30/1 27 —⟨ ◄–Ω⁺► ⟩— 7 (2.27) (2.7)	Ignition: **OFF** Disconnect N30/1 from contact box.	40 – 80 Ω	Wiring, A7/3k1, ⇒ 7.3
⇒ 7.3	Working contact	N30/1 W14 ◄–Ω⁺► ⟩— 7 (2.27) (2.7)	Ignition: **OFF** Disconnect N30/1 from contact box.	< 12 Ω	Wiring, A7/3k1.

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 8.0 10	**ABS/ASR hydraulic unit, high-pressure/return pump relay (A7/3k2)** Voltage supply	N30/1 ▦ 40 —⊂ ◄–Ⓥ⁺► ⊃— 7 (2.40) (2.7)	Ignition: **ON**	11 – 14 V	Wiring, ⇒ 8.1.
⇒ 8.1	Coil resistance	N30/1 ▦ 28 —⊂ ◄–Ⓞ⁺► ⊃— 7 (2.28) (2.7)	Ignition: **OFF** Disconnect N30/1 from contact box.	40 – 80 Ω	Wiring, A7/3k2.
⇒ 9.0 12 **Model 124.036 (02/93 →), 129.076, 140.04/05/07**	**Master brake cylinder switchover valve (Y61)** Internal resistance	N30/1 ▦ 1 —⊂ ◄–Ⓞ⁺► ⊃— 19 (2.1) (2.19)	Ignition: **OFF** Disconnect N30/1 from contact box.	7 – 8 Ω	Wiring, Y61.

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 10.0 ⒀	**Stop lamp switch (S9/1)** N.O. contact	N30/1 [▦] 40 —⟨ ◄–(V)⁺► ⟩— 49 (2.40) (1.8)	Ignition: **ON** Brake pedal not depressed. Depress brake pedal.	< 1 V 11 – 14 V	Wiring, S9/1.
	N.C. contact	N30/1 [▦] 40 —⟨ ◄–(V)⁺► ⟩— 45 (2.40) (1.4)	Brake pedal not depressed. Depress brake pedal.	11 – 14 V < 1 V	
⇒ 11.0	**Parking brake switch (S12)**	N30/1 [▦] 47 —⟨ ◄–(V)⁺► ⟩— 68 (2.40) (1.6)	Ignition: **ON** Apply parking brake. Engine: **at Idle** Parking brake not applied.	A1e7: **ON** < 1 V A1e7: **OFF** 11 – 14 V	Wiring, Parking brake indicator lamp (A1e7).

Electrical Test Program - Test

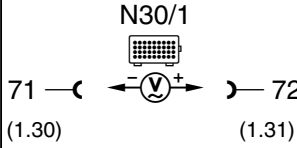| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 12.0	**ASR snow chain switch (S76)**	N30/1 40 —⟨ ◄–(V)⁺► ⟩— 55 (2.40) (1.14)	Engine: **at Idle** Press and hold switch S76 in **ON** position. Press and hold switch S76 in **OFF** position.	< 1 V S76 indicator: **ON** 11 – 14 V S76 indicator: **OFF**	Wiring, S76, N30/1.
⇒ 13.0 ¹⁴ ²⁹ **Model 124.036 (02/92 →), 129.076, 140.04/05/07**	**ABS lateral acceleration sensor (B24/2)** Voltage supply Sensor signal at rest Sensor signal dynamic	N30/1 75 —⟨ ◄–(V)⁺► ⟩— 64 (1.34) (1.23) N30/1 75 —⟨ ◄–(V)⁺► ⟩— 42 (1.34) (1.1) N30/1 75 —⟨ ◄–(V)⁺► ⟩— 42 (1.34) (1.1)	Ignition: **ON** Strongly shake vehicle in lateral direction.	4.75 – 5.25 V 2.35 – 2.65 V > 0.01 V ~ Value changes with movement	Wiring, B24/2, ⇒ 13.1.

Electrical Test Program - Test

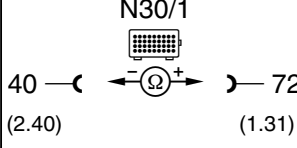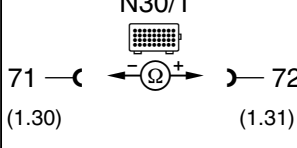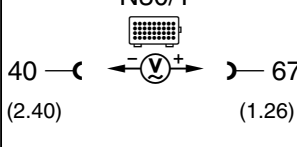| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 13.1	Voltage supply at sensor input	N30/1 75 —⟨ ←‾(V)⁺→ ⟩— 64 (1.34) (1.23)	Ignition: **ON** Remove connector from B24/2.	4.75 – 5.25 V	Wiring, N30/1.
⇒ 14.0 2 16 25	**Left front axle VSS sensor (L6/1)**	N30/1 10 —⟨ ←‾(V)⁺→ ⟩— 30 (2.10) (2.30)	Raise front of vehicle Ignition: **ON** Rotate left front wheel.	> 0.1 V ~	⇒ 14.1, ⇒ 14.2.
⇒ 14.1	Insulation resistance	N30/1 40 —⟨ ←‾(Ω)⁺→ ⟩— 30 (2.40) (2.30)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 20 kΩ	Wiring
⇒ 14.2	Internal resistance	N30/1 10 —⟨ ←‾(Ω)⁺→ ⟩— 30 (2.10) (2.30)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.8 – 3.7 kΩ	Wiring, L6/1.

Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 15.0	**Left front axle VSS sensor (L6/1) output**	N30/1 40 —◖ ◄━Ⓥ━► ◗— 77 (2.40) (1.36)	Raise front of vehicle. Ignition: **ON** Rotate left front wheel.	> 3 V ∼	Wiring, ⇒ 14.0, ⇒ 15.1, N30/1.
⇒ 15.1	Load with control modules connected	N30/1 40 —◖ ◄━Ⓞ━► ◗— 77 (2.40) (1.36)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 5 kΩ	Wiring, Control modules (N4/1, N4/3, N10/2, N22 or A2, A2/3y) connected.
⇒ 16.0	**Right front axle VSS sensor (L6/2)**	N30/1 13 —◖ ◄━Ⓥ━► ◗— 34 (2.13) (2.34)	Raise front of vehicle Ignition: **ON** Rotate left front wheel.	> 0.1 V ∼	⇒ 16.1, ⇒ 16.2.
⇒ 16.1	Insulation resistance	N30/1 40 —◖ ◄━Ⓥ━► ◗— 34 (2.40) (2.34)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 20 kΩ	Wiring

Electrical Test Program - Test

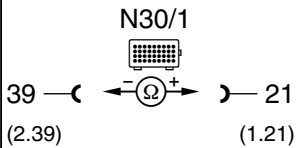| Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
DTC					
⇒ 16.2	Internal resistance	N30/1 13 —《 ←‒(Ω)⁺→ 》— 34 (2.13) (2.34)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.8 – 3.7 kΩ	Wiring, L6/2.
⇒ 17.0	**Right front axle VSS** **sensor (L6/2) output**	N30/1 40 —《 ←‒(V)⁺→ 》— 79 (2.40) (1.38)	Raise front of vehicle. Ignition: **ON** Rotate right front wheel.	> 3 V ~	Wiring, ⇒ 16.0, ⇒ 17.1, N30/1.
⇒ 17.1	Load with control modules connected	N30/1 40 —《 ←‒(Ω)⁺→ 》— 79 (2.40) (1.38)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 5 kΩ	Wiring, Control modules (N16/1, N51) connected.
⇒ 18.0 4 16 27	**Left rear axle VSS** **sensor (L6/3)**	N30/1 73 —《 ←‒(V)⁺→ 》— 74 (1.32) (1.33)	Raise rear of vehicle. Ignition: **ON** Rotate left rear wheel.	> 0.1 V ~	⇒ 18.1, ⇒ 18.2.

Electrical Test Program - Test

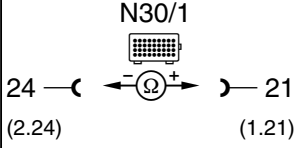| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 18.1	Insulation resistance	N30/1 40 —(←⁻(Ω)⁺→)— 74 (2.40) (1.33)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 20 kΩ	Wiring.
⇒ 18.2	Internal resistance	N30/1 73 —(←⁻(Ω)⁺→)— 74 (1.32) (1.33)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.6 – 3.2 kΩ	Wiring, L6/3.
⇒ 19.0	**Left rear axle VSS sensor (L6/3) output**	N30/1 40 —(←⁻(V)⁺→)— 69 (2.40) (1.28)	Raise rear of vehicle. Ignition: **ON** Rotate left rear wheel.	> 3 V ~	Wiring, ⇒ 18.0, ⇒ 19.1, N30/1.
⇒ 19.1	Load with control modules connected	N30/1 40 —(←⁻(Ω)⁺→)— 69 (2.40) (1.28)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 5 kΩ	Wiring, Control modules (N4/3, N49/1) connected.
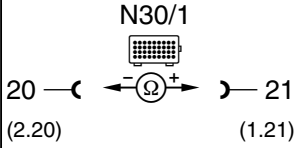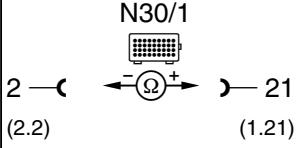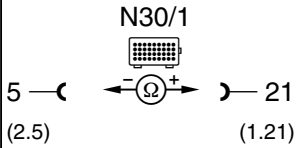
Electrical Test Program - Test

Test step / DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 20.0 **5 16 28**	**Rear axle VSS sensor (L6/4)**	N30/1 71 —(←⁻Ⓥ⁺→)— 72 (1.30) (1.31)	Raise rear of vehicle. Ignition: **ON** Rotate right rear wheel.	> 0.1 V ~	⇒ 20.1, ⇒ 20.2.
⇒ 20.1	Insulation resistance	N30/1 40 —(←⁻Ω⁺→)— 72 (2.40) (1.31)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 20 kΩ	Wiring.
⇒ 20.2	Internal resistance	N30/1 71 —(←⁻Ω⁺→)— 72 (1.30) (1.31)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.6 – 3.2 kΩ	Wiring, L6/4.
⇒ 21.0	**Rear axle VSS sensor (L6/4) output**	N30/1 40 —(←⁻Ⓥ⁺→)— 67 (2.40) (1.26)	Raise rear of vehicle. Ignition: **ON** Rotate right rear wheel.	> 3 V ~	Wiring, ⇒ 20.0, ⇒ 21.1, N30/1.

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Electrical Test Program - Test

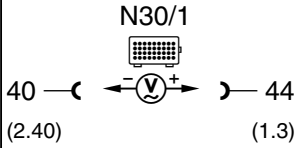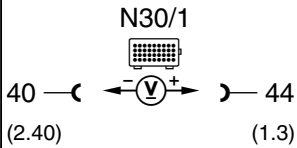| Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 21.1	Load with control modules connected	N30/1 [diagram] 40 —(← Ω +)— 67 (2.40) (1.26)	Ignition: **OFF** Disconnect N30/1 from contact box.	> 5 kΩ	Wiring, Control modules (N4/3, N49/1) connected.
⇒ 22.0 ᴰᵀᶜ 21 22 23	**ABS/ASR hydraulic unit, pressure switch (A7/3s1)**	N30/1 [diagram] 37 —(← V +)— 68 (2.37) (1.27)	Engine: **at Idle** Pressure reservoir full Vent reservoir at connection "SP" for a maximum of two seconds.	9 – 14 V < 3 V	⇒ 22.1, 33 ⇒ 1.0, 2.0, Pressure reservoir is empty. Wiring, A7/3.
⇒ 22.1	Pressure switch	N30/1 [diagram] W14 ← Ω +)— 37 (2.37)	Ignition: **ON** Disconnect relay (A7/3k1) from hydraulic unit. Disconnect N30/1 from contact box. Pressure reservoir: **Full** Pressure reservoir: **Empty**	< 1.8 kΩ > 20 kΩ	Wiring, A7/3.

Electrical Test Program - Test

Test step	DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 23.0	6	**ABS/ASR hydraulic unit, left front axle solenoid valve (A7/3y1)** Internal resistance	N30/1 20 —(←–Ω⁺→)— 21 (2.20)　　　　(1.21)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.7 – 2.2 Ω	Wiring, A7/3.
⇒ 24.0	7	**ABS/ASR hydraulic unit, right front axle solenoid valve (A7/3y2)** Internal resistance	N30/1 39 —(←–Ω⁺→)— 21 (2.39)　　　　(1.21)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.7 – 2.2 Ω	Wiring, A7/3.
⇒ 25.0	8	**ABS/ASR hydraulic unit, left rear axle solenoid valve (A7/3y3)** Internal resistance	N30/1 2 —(←–Ω⁺→)— 21 (2.2)　　　　(1.21)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.7 – 2.2 Ω	Wiring, A7/3.
⇒ 26.0	9	**ABS/ASR hydraulic unit, right rear axle solenoid valve (A7/3y4)** Internal resistance	N30/1 24 —(←–Ω⁺→)— 21 (2.24)　　　　(1.21)	Ignition: **OFF** Disconnect N30/1 from contact box.	0.7 – 2.2 Ω	Wiring, A7/3.
⇒ 27.0	20	**ABS/ASR hydraulic unit, switchover/solenoid valve (A7/3y5)** Internal resistance	N30/1 5 —(←–Ω⁺→)— 21 (2.5)　　　　(1.21)	Ignition: **OFF** Disconnect N30/1 from contact box.	1.8 – 3.0 Ω	Wiring, A7/3.

Electrical Test Program - Test

Test step / DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 28.0 / 30 31 32 33	**CAN data bus**	N30/1 L —(←=Ⓩ+→)— H	Ignition: **OFF** Disconnect N30/1 or contact module 2. Connect ohmmeter directly to both wide terminals on N30/1 connector.	55 – 65 Ω	CAN data line, ⇒ 28.1.
⇒ 28.1	**CAN element in LH-SFI or engine control module (N3/1, N3/4 respectively)** Resistance	**Engine 104, 119** N3/1 L —(←=Ⓩ+→)— H	Disconnect N3/1 or N3/4. Test directly on control module.	115 – 125 Ω	N3/1 or N3/4, ⇒ 28.2.
⇒ 28.2	**CAN element in DI control module (N1/3, N1/4, N1/5)** Resistance	**Engine 104 LH-SFI, Engine 119 LH-SFI** N1/3 3 —(←=Ⓩ+→)— 4 **Engine 120** N1/4 N1/4 3 —(←=Ⓩ+→)— 4	Disconnect connector "B" from N1/3. Test directly on control module. Disconnect connector "B" from control modules N1/4 and N1/5. Test directly on control modules.	115 – 125 Ω	N1/3 N1/4, N1/5

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Electrical Test Program - Test

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 29.0 **Model** **140.032** **(06/93 →)**	**VSS sensor output status** Signal: Vehicle stationary	N30/1 40 —(←=(V)⁺→)— 44 (2.40) (1.3)	Ignition: **ON**	> 3 V ~	⇒ 29.1
⇒ 29.1	Signal: Fault	N30/1 40 —(←=(V)⁺→)— 44 (2.40) (1.3)	Ignition: **ON**	< 10 V	⇒ 14.0, N30/1.

Electrical Test Program - Test
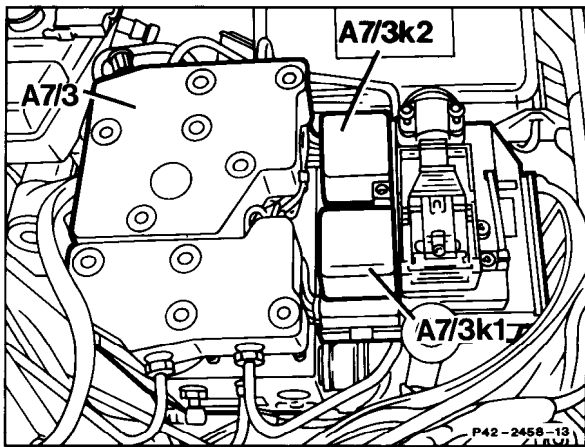
P42-2458-13

Figure 1

A7/3k1   Solenoid valve relay
A7/3k2   High-pressure/return pump relay
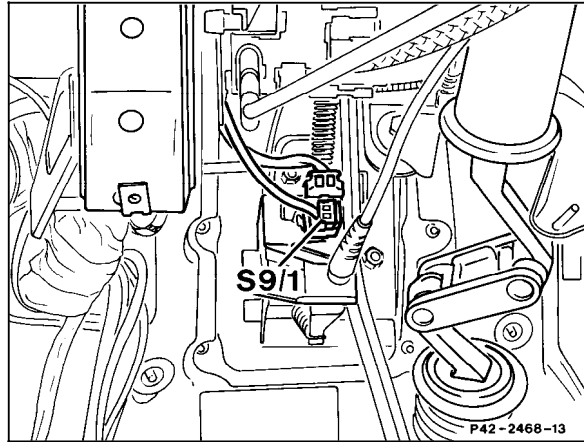
P42-2468-13

Figure 2

S9/1   Stop lamp switch (4-pole)
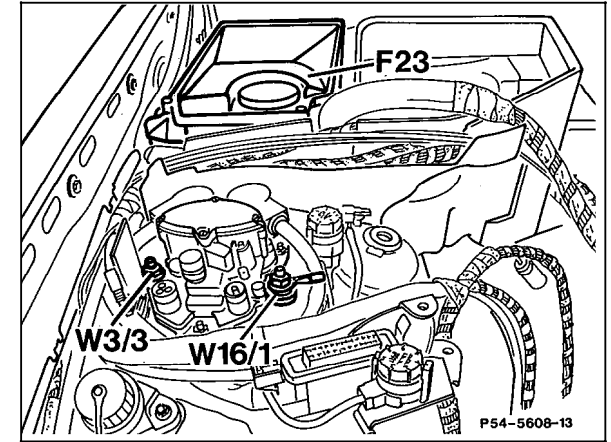
P54-5608-13

Figure 3
Model 140

W3/3   Ground (right front wheelhousing - DI)
W16/1   Ground (right front spring tower)
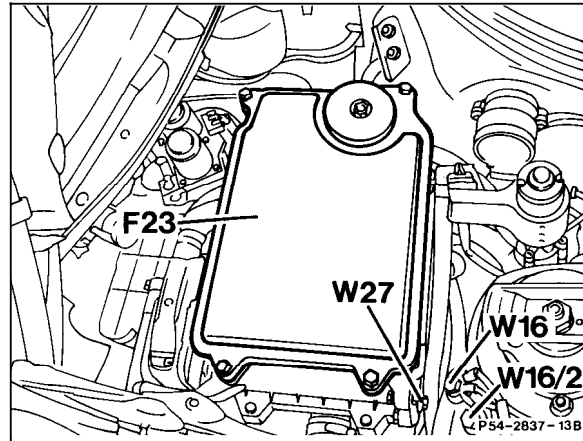
Electrical Test Program - Test
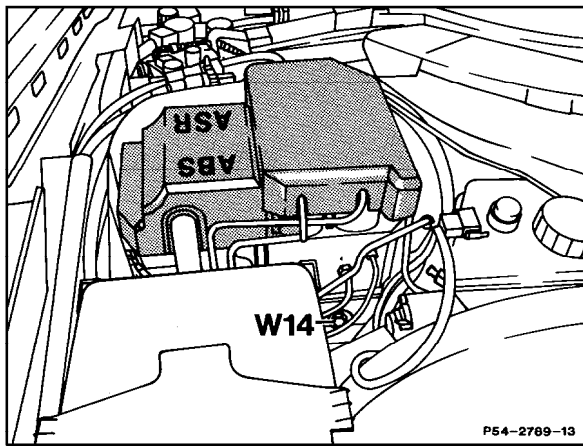
P54-2789-13

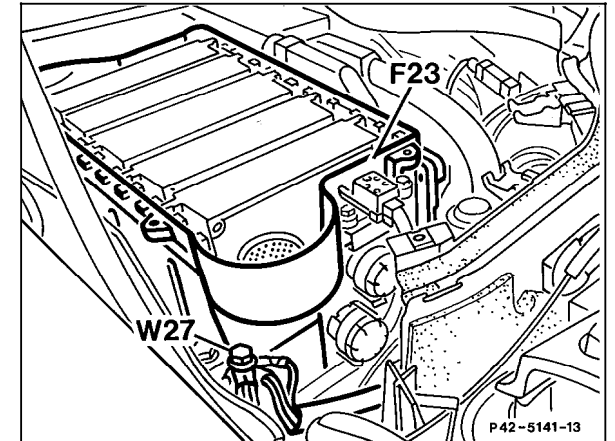Figure 4

W14   Ground (ABS hydraulic unit bracket)

P54-2837-13B

Figure 5
Model 124
W16   Ground (component compartment)
W27   Ground (module box bracket)

P42-5141-13

Figure 6
Model 129
W27   Ground (module box bracket)
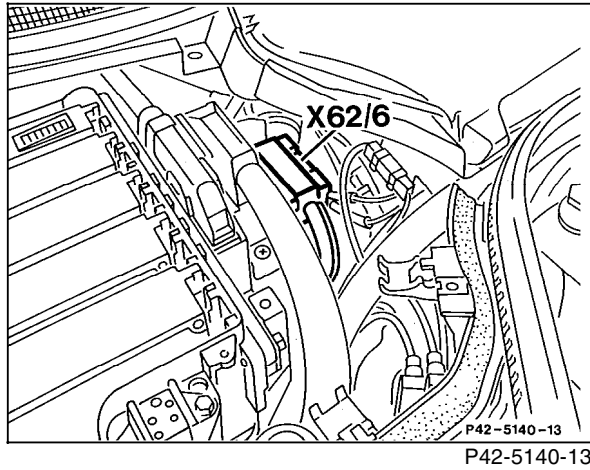
Electrical Test Program - Test

P42-5140-13

Figure 7
Model 129
X62/6   Right front axle VSS sensor connector
(component compartment)
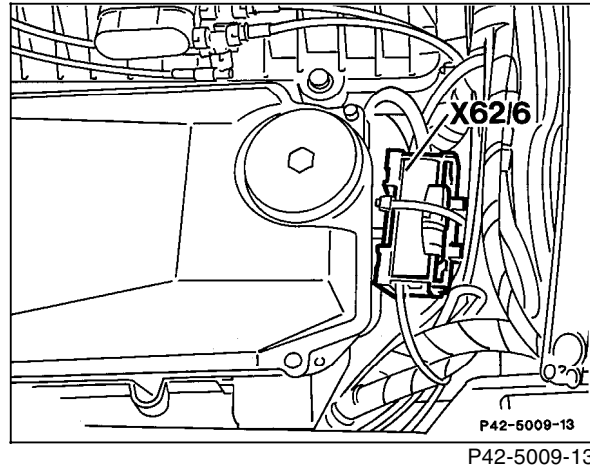

P42-5009-13

Figure 8
Model 140
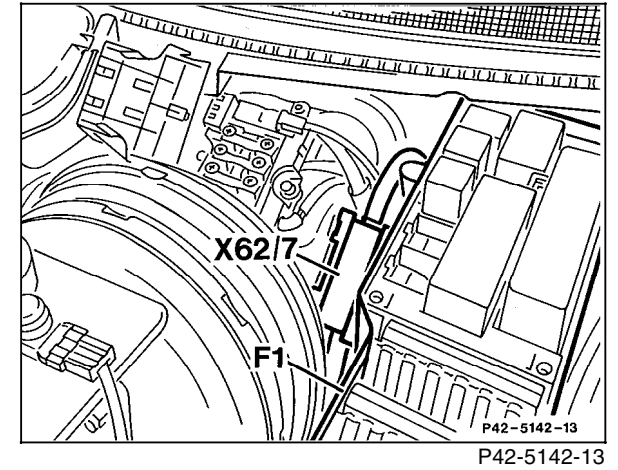X62/6   Right front axle VSS sensor connector
(component compartment)

P42-5142-13

Figure 9
Model 129
X62/7   Left front axle VSS sensor connector (component
compartment)

Electrical Test Program - Test
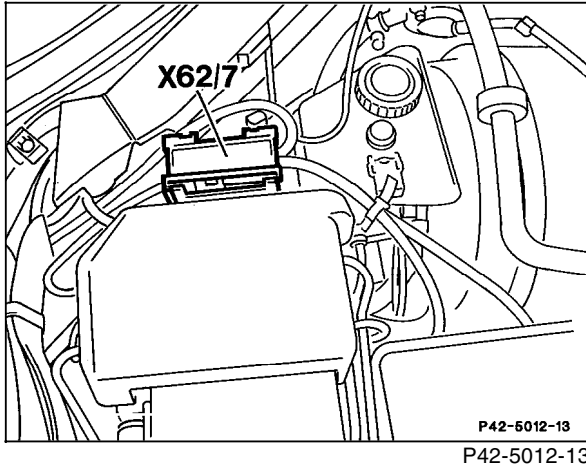

P42-5012-13

Figure 10
Model 140
X62/7   Left front axle VSS sensor connector (component compartment)
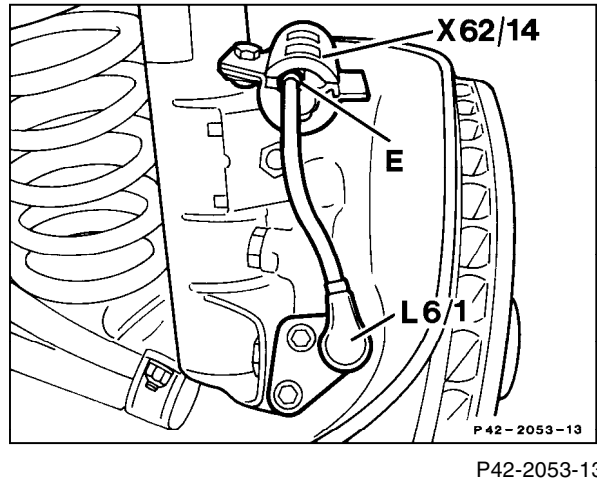

P42-2053-13

Figure 11
Model 129
L6/1   Left front axle VSS sensor
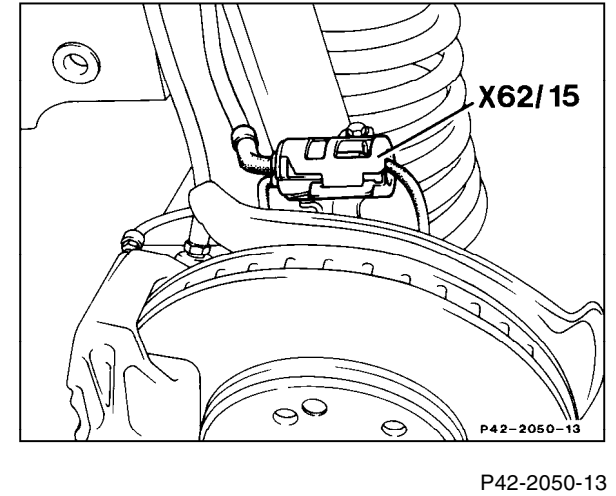X62/14   Left front axle VSS sensor connector (axle spindle)

P42-2050-13

Figure 12
Model 129
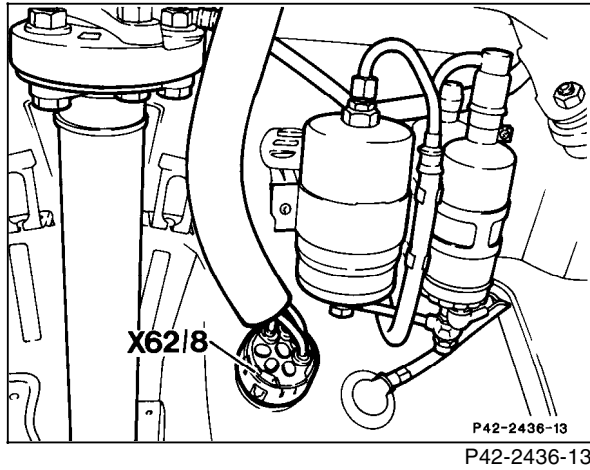X62/15   Right front axle VSS sensor connector (axle spindle)

Electrical Test Program - Test

P42-2436-13

Figure 13

X62/8	Rear axle multiple circuit junction connector

P07-5159-13
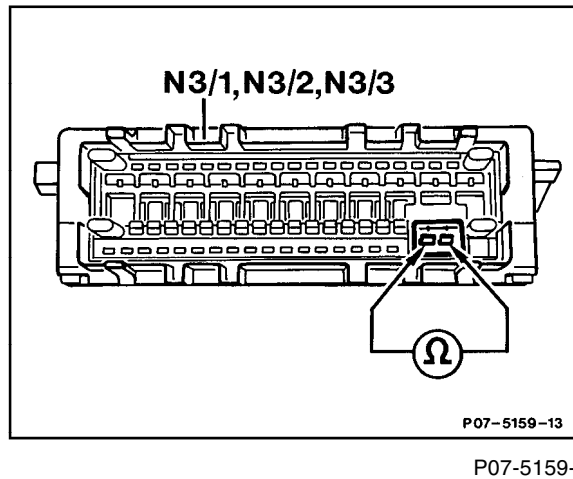
Figure 14

N3/1	LH-SFI control module
N3/2	Left LH-SFI control module
N3/3	Right LH-SFI control module

P15-5058-13

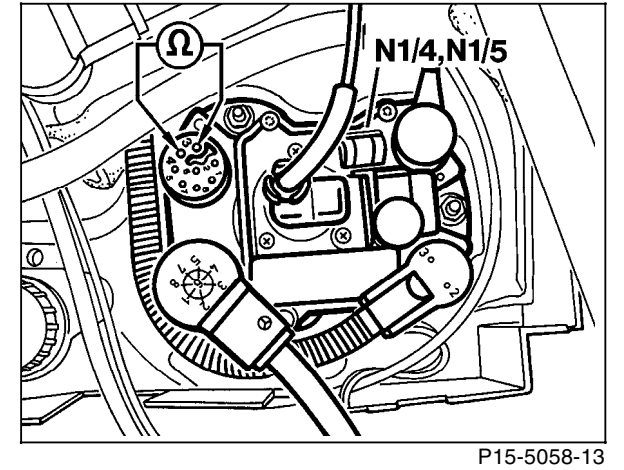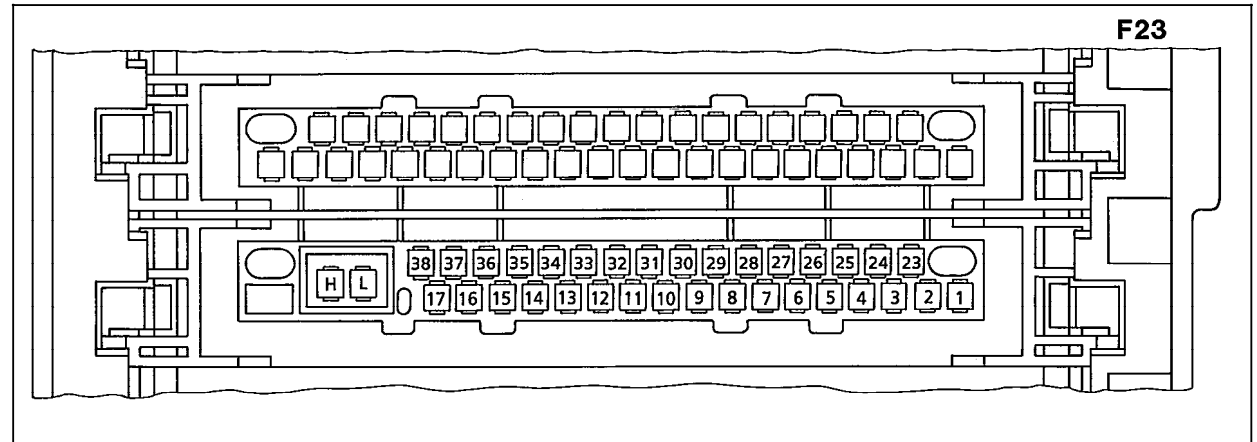Figure 15

N1/3	DI/KSS control module
N1/4	Left DI control module
N1/5	Right DI control module

Electrical Test Program - Test

ABS/ASR control module (N30/1) layout connector 1 (component compartment)

F23

P07-5171-53

Figure 16

F23	Module box
1	**Model 124.036 (02/93 →), 129.076, 140.04/05/07** ABS lateral acceleration sensor (B24/2)
2	Not used
3	**Model 140.032 (06/93 →)** VSS sensor output status
4	Stop lamp switch (S9/1), N.C. contact
5	Not used
6	Parking brake switch (S12)
7	Not used
8	Stop lamp switch (S9/1), N.O. contact
9-13	Not used
14	ASR snow chain switch (S76)
15	Not used
16	Diagnosis output
17-22	Not used
23	**Model 124.036 (02/93 →), 129.076, 140.04/05/07** ABS lateral acceleration sensor (B24/2), voltage supply
24	ASR snow chain switch (S76), indicator lamp
25	Circuit 61e voltage
26	Right rear VSS sensor (L6/4) output
27	Voltage supply from BM (N16/1), circuit 87
28	Left rear VSS sensor (L6/3) output
29	ASR MIL (A1e22)
30	Right rear axle VSS sensor (L6/4) (−)
31	Right rear axle VSS sensor (L6/4) (+)
32	Left rear axle VSS sensor (L6/3) (−)
33	Left rear axle VSS sensor (L6/3) (+)
34	**Model 129.076, 140.04/05/07** ABS lateral acceleration sensor (B24/2), ground
35	ABS MIL (A1e17)
36	Left front VSS sensor (L6/1) output
37	ASR warning lamp (A1e21)
38	Right front VSS sensor (L6/2) output

Layout of connector 3 (CAN)

L	CAN data line (−)
H	CAN data line (+)

.

Electrical Test Program - Test

ABS/ASR control module (N30/1) layout connector 2 (engine compartment)

Figure 17

F23	Module box
1	ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1), monitor
2	ABS/ASR hydraulic unit, left rear axle solenoid valve (A73y3) (–)
3-4	Not used
5	ABS/ASR hydraulic unit, switchover/solenoid valve (A7/3y5) (–)
6	Not used
7	ABS/ASR hydraulic unit, high-pressure/return pump relay (A7/3k2) and ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1), voltage supply
8-9	Not used
10	Left front axle VSS sensor (L6/1) (–)
11-12	Not used
13	Right front axle VSS sensor (L6/2) (–)
14-18	Not used
19	**Model 124.036 (02/93), 129.076. 140.04/05/07** Master brake cylinder switchover valve (Y61), control
20	ABS/ASR hydraulic unit, left front axle solenoid valve (A73y1) (–)
21	ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1), monitor
22	ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1), monitor
23	Not used
24	ABS/ASR hydraulic unit, right rear axle solenoid valve (A7/3y4) (–)

F23

P07-5170-53

25	**Model 129** Ground, module box bracker (W27) **Model 124, 140** Ground (W16 or W16/1)
26	Not used
27	ABS/ASR hydraulic unit, solenoid valve relay (A7/3k1), ground
28	ABS/ASR hydraulic unit, high-pressure/return pump relay (A7/3k2), ground
29	Not used
30	Left front axle VSS sensor (L6/1) (+)
31	Not used
32	**Model 124, 129** Ground, module box bracker (W27) **Model 140** Ground, right front spring tower (W16/1)
33	Not used
34	Right front axle VSS sensor (L6/2) (+)
35	Not used

36	ABS/ASR hydraulic unit, high-pressure/return pump relay (A7/3k2), monitor
37	ABS/ASR hydraulic unit, pressure switch (A7/3s1)
38	Not used
39	ABS/ASR hydraulic unit, right front axle solenoid valve (A73y2) (–)
40	**Model 129** Ground, module box bracker (W27) **Model 124, 140** Ground (W16 or W16/1)
41	ASR charging pump (M15)

Layout of connector 3 (CAN)

L	CAN data line (–)
H	CAN data line (+)