

Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
1.0		Engine control module (ME-SFI) (N3/10) Voltage supply Circuit 30	 N3/10	Ignition: ON	11 – 14 V	⇒ 1.1 – 1.2
1.1		Ground wire	 N3/10	Ignition: ON	11 – 14 V	Wiring, Model 129: Ground, module box bracket (W27). Model 140: Output ground (W15), right footwell. Model 202, 210: Output ground (W16/6), right component compartment.

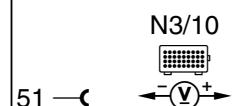
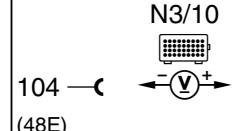
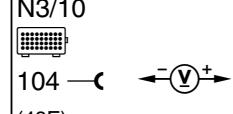
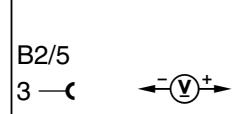
Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
1.2		Voltage supply Circuit 30	X11/4 N3/10 1 —<  12 (4B)	Ignition: ON	11 – 14 V	<p>Wiring, Model 129, 140: Base moduel (N16/1) or fuse on base module.</p> <p>Model 202: Passenger-side fuse and relay module box (K40/4).</p> <p>Model 210: Relay module (K40).</p>
2.0		Engine control module (ME-SFI) (N3/10) Voltage supply Circuit 87	8 —< N3/10 (8A)  2 (2A)	Ignition: ON	11 – 14 V	⇒ 2.1 – 2.2
2.1		Electronics ground	8 —< N3/10 (8A)  X11/4 (4B) 2	Ignition: ON	11 – 14 V	<p>Wiring, Model 129: Control module box bracket (W27).</p> <p>Model 140: Output ground (W15), right footwell.</p> <p>Model 202 and 210: Output ground (W16/6), right component compartment.</p>

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2.2		Voltage supply Circuit 87	X11/4 N3/10 1 —(—)  2 (2A)	Ignition: ON Ignition: OFF	11 – 14 V < 1 V	Wiring, Model 129, 140: Base module (N16/1) or fuse on base module. Model 202: Passenger-side fuse and relay module box (K40/4). Model 210: Relay module (K40).
3.0		Starter signal Circuit 50	8 —(—)  32 (40C)	Engine: Start	11 – 14 V during the start procedure.	Wiring, Ignition/starter switch
4.0		Starter relay in fuse and relay module box (K40/4) Model 202.028 with 722.4/6 A-transm. Activation	35 —(—)  2 (2A)	Selector lever position: P/N Engine: Start Selector lever position: R, D, 3, 2 Engine: Start	11 – 14 V < 2 V	⇒ 4.1 Engine control module (N3/10).

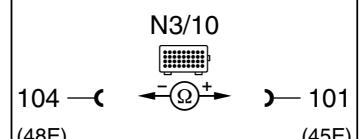
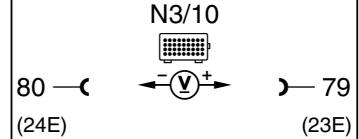
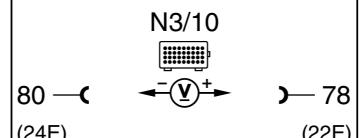
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4.1		P/N recognition		Ignition: ON Selector lever position: P/N R, D, 4, 3, 2, 1, < 2 V	11 – 14 V	Wiring, See in WIS: AD27.19-P-1000AZ, and AD27.19-P-3000AB
5.0	 P0100	Hot film MAF sensor (B2/5) Hot film signal		Ignition: ON Engine: at Idle Engine coolant temperature >70°C	0.9 – 1.1 V 1.3 – 1.7 V Increasing rpm = increasing voltage.	⇒ 5.1 – 5.3, Wiring, Air intake system leak, B2/5
5.1		Hot film MAF sensor (B2/5) Voltage supply 5 V		Disconnect MAF sensor (B2/5) connector and measure directly on socket 4 (br/y). Ignition: ON	4.7 – 5.2 V	Wiring, N3/10
5.2		Ground wire for hot film MAF sensor (B2/5)		Disconnect MAF sensor (B2/5) connector and measure directly on socket 3 (br). Ignition: ON	4.7 – 5.2 V	Wiring.

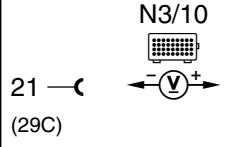
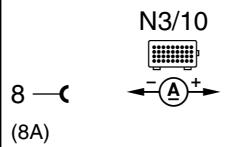
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5.3		Hot film MAF sensor (B2/5) Voltage supply 12 V	N3/10  104 —<  >— 2 (48E) (2) B2/5	Disconnect MAF sensor (B2/5) connector and connect plus of voltmeter to socket 2 (rd/bu). Ignition: ON	11 – 14 V	Wiring, Model 129, 140: Base module (N16/1) or fuse on base module. Model 202: Passenger-side fuse and relay module box (K40/4). Model 210: Relay module (K40).
6.0		IAT sensor in hot film MAF sensor (B2/5) Voltage	N3/10  104 —<  >— 101 (48E) (45E)	Ignition: ON	°C V 10 3.1 20 2.7 30 2.2 40 1.8 50 1.4 60 1.1 ± 5%	⇒ 6.1 N3/10

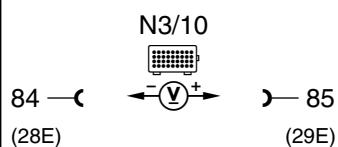
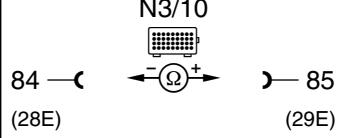
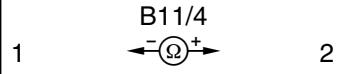
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⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy																
6.1		IAT sensor Resistance		<p>Ignition: OFF Disconnect connector E on engine control module (N3/10).</p>	<table> <thead> <tr> <th>oC</th> <th>Ω</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>3600</td> </tr> <tr> <td>20</td> <td>2420</td> </tr> <tr> <td>30</td> <td>1660</td> </tr> <tr> <td>40</td> <td>1170</td> </tr> <tr> <td>50</td> <td>850</td> </tr> <tr> <td>60</td> <td>600</td> </tr> <tr> <td colspan="2">± 5%</td> </tr> </tbody> </table>	oC	Ω	10	3600	20	2420	30	1660	40	1170	50	850	60	600	± 5%		Wiring, B2/5
oC	Ω																					
10	3600																					
20	2420																					
30	1660																					
40	1170																					
50	850																					
60	600																					
± 5%																						
7.0	P0 105	Pressure sensor (B28) Sensor signal (only USA)		<p>Connect vacuum tester to pressure sensor (B28) using Y-fitting, 23 (Figure 1).</p> <p>Ignition: ON</p> <p>Engine: at Idle</p>	<p>> 3.5 V</p> <p>< 2 V and pressure climbs to > 500 mbar.</p>	⇒ 7.1, Vacuum line, Wiring, B28																
7.1		Pressure sensor (B28) Voltage supply		Ignition: ON	4.7 – 5.3 V	N3/10																

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8.0	Model 129, 140, 202 FP relay module (K27) Model 210 Relay module (K40) Activation	 	<p>i On Model 202, the activation of the fuel pump takes place via the passenger-side fuse and relay module box (K40/4).</p> <p>Ignition: ON i The activation of the FP occurs only once after ignition "ON". For the next activation, the engine must have run briefly.</p> <p>Engine: Start</p>	11 – 14 V for approx. 1 sec. 11 – 14 V, during starting and while engine runs only.	Wiring, K27 or K40, N3/10

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9.0		ECT sensor (B11/4) Voltage	 N3/10  84 —>  —> 85 (28E) (29E)	Ignition: ON	°C V 20 3.4 30 2.9 40 2.4 50 1.9 60 1.5 70 1.2 80 0.9 90 0.7 100 0.5 ±5 %	⇒ 9.1, N3/10
9.1		Resistance (B11/4)	 N3/10  84 —>  —> 85 (28E) (29E)	Ignition: OFF Disconnect connector E on engine control module (N3/10).	°C Ω 20 3090 30 2000 40 1330 50 900 60 630 70 440 80 320 90 230 100 170 ±5 %	Wiring, ⇒ 9.2
9.2		ECT sensor (B11/4) Resistance	 B11/4  1 —>  —> 2	Disconnect connector on ECT sensor (B11/4).	Nominal value, see ⇒ 9.1	B11/4

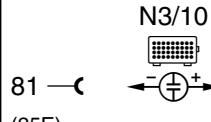
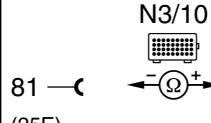
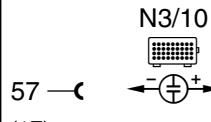
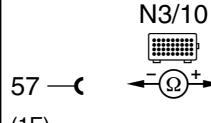
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10.0		Engine control module (N3/10) TN-signal output	 	<p>Test with oscilloscope: Engine: Start or Engine: at Idle</p> <p>Test with multimeter, only if test with oscilloscope is not possible.</p>	Signal, see Figure 2 7.5 – 9.0 V	Wiring, N3/10
11.0	 	O2S 1 (before TWC) (G3/2) O2S signal		If ECT > 80 ° C, run engine at idle for at least two minutes.	fluctuates from – 0.2 V to + 1.0 V, by more than 0.3 V	Wiring, ⇒ 12.0, G3/2
12.0		O2S 1 (before TWC) (G3/2) O2S heater activation O2S 1 (G3/2) Current draw	 	If ECT > 80 ° C, run engine at idle for at least two minutes. Ignition: ON	11 – 14 V 0.6 – 3.4 A	Wiring, G3/2 N3/10

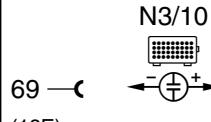
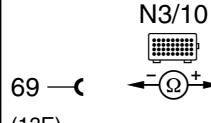
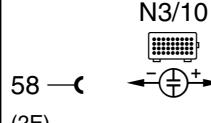
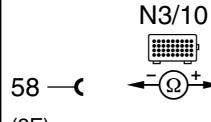
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13.0		O2S 2 (after TWC) (G3/1) O2S signal (only USA)	<p>N3/10  39 —> 40 (7D) (8D)</p> <p>N3/10  3 —> 20 (3A) (28C)</p> <p>N3/10  3 —> 66 (3A) (10E)</p>	<p>If ECT > 80° C, Engine: Start Raise and hold engine speed at 2000 – 3000 rpm for approx. 2 minutes.</p> <p>Engine: at idle Bridge sockets on socket box.</p>	<p>Within one minute, the value range of 450 mV to 500 mV must be either exceed or be below value range given.</p> <p>> 550 mV</p> <p>AIR pump runs. Voltage changes to < 40 mV within 60 seconds.</p>	Wiring, ⇒ 14.0, G3/1, N3/10
14.0		O2S 2 (after TWC) (G3/1) O2S heater activation (only USA)	<p>N3/10  9 —> 2 (1B) (2A)</p> <p>N3/10  3 —> 9 (3A) (1B)</p>	<p>Engine: at Idle If ECT > 80° C, run engine at idle for at least 2 minutes.</p> <p>Ignition: ON</p>	<p>11 – 14 V or voltage fluctuates between 1 – 14 V</p> <p>0.6 – 3.4 A</p>	Wiring, G3/1, N3/10

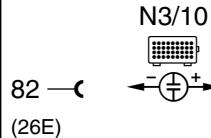
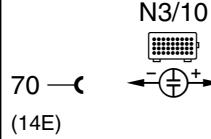
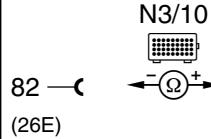
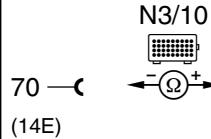
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15.0		Injector (Y62y1) Activation and injection time	 	ECT approx. 20° C at start:	Injection time: approx. 8 ms	Wiring, Y62y1, N3/10, ECT sensor (B11/4), IAT sensor in hot film MAF sensor (B2/5), O2S 1 (G3/2).
				ECT approx. 80° C at idle: accelerate briefly:	approx. 3 – 5 ms approx. 14 ms (signal see Figures 3 and 4).	
16.0		Injector (Y62y2) Activation and injection time	 	ECT approx. 20° C at start:	Injection time: approx. 8 ms	Wiring, Y62y2, N3/10, ECT sensor (B11/4), IAT sensor in hot film MAF sensor (B2/5), O2S 1 (G3/2).
				ECT approx. 80° C at idle: accelerate briefly:	approx. 3 – 5 ms approx. 14 ms (signal see Figures 3 and 4).	
		Resistance (Y62y2)		Ignition: OFF	14 – 17 Ω	

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17.0	 203	Injector (Y62y3) Activation and injection time	 N3/10 69 → (13E) ← + → 2 (2A)	ECT approx. 20° C at start: ECT approx. 80° C at idle: accelerate briefly:	Injection time: approx. 8 ms approx. 3 – 5 ms approx. 14 ms (signal see Figures 3 and 4).	Wiring, Y62y3, N3/10, ECT sensor (B11/4), IAT sensor in hot film MAF sensor (B2/5), O2S 1 (G3/2).
		Resistance (Y62y3)	 N3/10 69 → (13E) ← Ω → 2 (2A)	Ignition: OFF	14 – 17 Ω	
18.0	 204	Injector (Y62y4) Activation and injection time	 N3/10 58 → (2E) ← + → 2 (2A)	ECT approx. 20° C at start: ECT approx. 80° C at idle: accelerate briefl:	Injection time: approx. 8 ms approx. 3 – 5 ms approx. 14 ms (signal see Figures 3 and 4).	Wiring, Y62y4, N3/10, ECT sensor (B11/4), IAT sensor in hot film MAF sensor (B2/5), O2S 1 (G3/2).
		Resistance (Y62y4)	 N3/10 58 → (2E) ← Ω → 2 (2A)	Ignition: OFF	14 – 17 Ω	

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19.0	 205	Injector (Y62y5) Activation and injection time	 N3/10  82 —(26E) ←—+→ 2 —(2A)	ECT approx. 20° C at start:	Injection time: approx. 8 ms	Wiring, Y62y5, N3/10, ECT sensor (B11/4), IAT sensor in hot film MAF sensor (B2/5), O2S 1 (G3/2).
				ECT approx. 80° C at idle: accelerate briefly:	approx. 3 – 5 ms approx. 14 ms (signal see Figures 3 and 4).	
20.0	 206	Injector (Y62y6) Activation and injection time	 N3/10  70 —(14E) ←—+→ 2 —(2A)	ECT approx. 20° C at start:	Injection time: approx. 8 ms	Wiring, Y62y6, N3/10, ECT sensor (B11/4), IAT sensor in hot film MAF sensor (B2/5), O2S 1 (G3/2).
				ECT approx. 80° C at idle: accelerate briefly:	approx. 3 – 5 ms approx. 14 ms (signal see Figures 3 and 4).	
		Resistance (Y62y5)	 N3/10  82 —(26E) ←—Ω—→ 2 —(2A)	Ignition: OFF	14 – 17 Ω	
				Ignition: OFF	14 – 17 Ω	
		Resistance (Y62y6)	 N3/10  70 —(14E) ←—Ω—→ 2 —(2A)	Ignition: OFF	14 – 17 Ω	
				Ignition: OFF	14 – 17 Ω	

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21.0	PI 453 Model 129, 140: AIR relay module (K17), Model 202: Passenger-side fuse and relay module box (K40/4), Model 210: Relay module (K40) Activation (K17), (K40), (K40/4) Current draw	<p>N3/10 </p> <p>3 —(3A)— N3/10 </p>	<p>Disconnect ECT sensor (B11/4) connector. Simulate 2.5 kΩ resistance at sockets 1 and 2 with resistance substitution unit. Engine: at Idle</p> <p>Ignition: ON</p>	<p>11 – 14 V for approx. two minutes and AIR pump runs.</p> <p>0.1 – 0.3 A</p>	<p>Wiring, AIR pump fuse, K17, K40 or K40/4, N3/10</p>
22.0	PI 420 AIR pump switchover valve (Y32) Activation Current draw (Y32)	<p>N3/10 </p> <p>3 —(3A)— N3/10 </p>	<p>Disconnect ECT sensor (B11/4) connector. Simulate 2.5 kΩ resistance at sockets 1 and 2 with resistance substitution unit. Engine: at Idle</p> <p>Ignition: ON</p>	<p>11 – 14 V for approx. two minutes and AIR pump runs.</p> <p>0.4 – 0.6 A</p>	<p>Fuse, Wiring, Y32, N3/10</p>

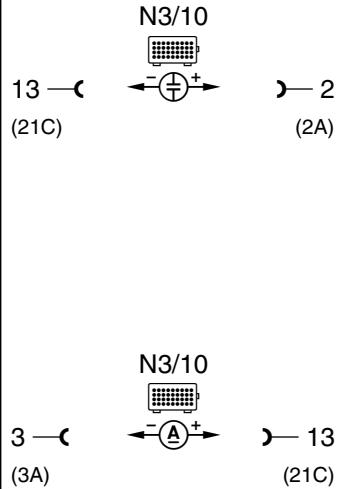
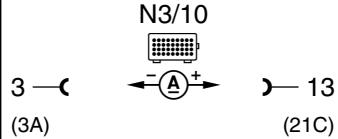
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23.0		AIR system (logic chain)  The O2S 1 signal before TWC is being measured.	 23 ← (31C) → 24 (32C)  3 ← (3A) → 20 (28C)  3 ← (3A) → 66 (10E)	If ETC > 80°C run engine at idle for at least 2 minutes. Bridge sockets on socket box	The O2S voltage oscillates in the area of -0.2 V and +1.0 V AIR pump runs. Voltage changes to < 100 mV within 20 seconds.	Y32 binding, AIR combi valve, AIR pump no output.
24.0	 	Resonance intake manifold switchover valve (Y22/6) Activation Y22/6 Current draw	 68 ← (12E) → 2 (2A)  3 ← (3A) → 68 (12E)	Engine: Start Engine speed: < approx. 3500 rpm Engine speed: > approx. 3500 rpm Ignition: ON	< 1 V 11 – 14 V 0.4 – 0.6 A	Wiring, Y22/6, N3/10

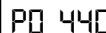
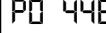
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25.0		Adjustable camshaft timing solenoid (Y49) Current draw	Y49 1 —(—)  A + → 2	i Connect test cable (102 589 04 63 00) to solenoid. Engine: at idle ECT > 70°C Increase engine speed to approx. 2000 rpm.	1.0 – 1.5 A	⇒ 25.1, ⇒ 26.0, N3/10
25.1		Resistance (Y49)	N3/10 60 —(—)  Ω + → 2 (4E) (2A)	Ignition: OFF	7 – 12 Ω	Wiring, Y49
26.0		Adjustable camshaft timing solenoid (Y49) Mechanical function	N3/10 60 —(—)  → 3 (4E) (3A)	Engine: at Idle Bridge sockets on socket box for a maximum of 10 seconds.	Engine runs rough or stalls	Check function of camshaft adjuster (see SMS, Engine 104, Job No. 05-2160).

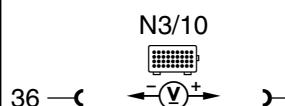
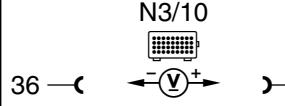
Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
27.0	P0 441 P0 443	Purge control valve (Y58/1) Activation	 N3/10 13 —>  2 (21C) (2A)	Engine: at Idle and at operating temperature.	After approx. 1 minute, purge control valve (Y58/1) must noticeably cycle (Fig. 5 to 7), Signal see (Figure 8).	Wiring, Y58/1, ⇒ 28.0, N3/10
		Current draw (Y58/1)	 N3/10 3 —>  13 (3A) (21C)	Ignition: ON	0.3 – 0.5 A	
28.0	P0 440 P0 441	Purge control valve (Y58/1) Vacuum control		Connect vacuum tester to purge control valve (Y58/1) between purge line to charcoal canister (Figure 5 to 7). Engine at operating temperature and at idle.	After approx. 1 minute, > 50 mbar and needle oscillates, Y58/1 must cycle.	Vacuum line, Y58/1

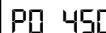
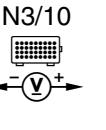
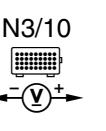
Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
29.0	   	<p>Only </p> <p>Model 140, 210 only, Model 129 as of 09/97</p> <p>Purge system</p> <p>Leaks</p> <p>Activated charcoal canister shut-off valve (Y58/4)</p> <p>Activate</p>	 	<p>Disconnect purge line (A) to charcoal canister on purge control valve (Y58/1). Connect vacuum tester to purge line (Figure 6 and 7).</p> <p>Ignition: ON</p> <p>Apply approx. 25 mbar of vacuum.</p>	<p>After approx. 1 minute, < 5 mbar vacuum loss.</p>	<p>Fuel tank cap, Purge line to charcoal canister, Purge line from charcoal canister to Y58/4, Charcoal canister, Y58/4</p> <p>Charcoal canister, Y58/4, Purge control valve (Y58/1)</p>
30.0		<p>Only </p> <p>Model 140, 210 only, Model 129 as of 09/97</p> <p>Activated charcoal canister shut-off valve (Y58/4)</p> <p>Current draw</p>	 	Ignition: ON	0.5 – 0.9 A	Fuse, Wiring, Y58/4

Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
31.0	  	<p>Only  Model 140, 210 Model 129 as of 09/97 Fuel tank pressure sensor (B4/3) Sender signal</p> <p>Activated charcoal canister shut-off valve (Y58/4) activated</p>	 	<p>Disconnect purge line (A) to charcoal canister on purge control valve (Y58/1). Connect vacuum tester to purge line (Figure 6 and 7).</p> <p>Ignition: ON</p> <p>Apply approx. 25 mbar of vacuum.</p>	<p>> 2.9 V</p> <p>< 2.3 V</p>	<p>⇒ 31.1, Wiring, Vacuum line, Charcoal canister plugged, B4/3</p>
31.1		<p>Only  Fuel tank pressure sensor (B4/3) Voltage supply</p>		Ignition: ON	4.7 – 5.3 V	N3/10

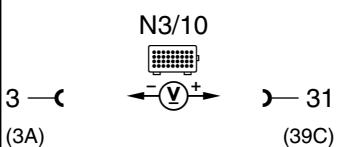
Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
32.0		Only <small>USA</small> Model 129, 202 up to 08/97 Purge monitoring pressure sensor (B4/4) Sender signal	36 —<  —> 37 (4D) (5D)	Disconnect purge line (A) to charcoal canister on purge monitoring pressure sensor (B4/4). Connect vacuum tester to purge monitoring pressure sensor (Figure 9 and 10). Ignition: ON Apply approx. 300 mbar of vacuum.	> 3.5 V < 3 V	Wiring, ⇒ 32.1, B4/4
32.1		Purge monitoring pressure sensor (B4/4) Voltage supply	36 —<  —> 38 (4D) (6D)	Ignition: ON	4.7 – 5.3 V	N3/10

Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
33.0	PO 600 PO 811 PI 570 PI 603 PI 747	CAN data bus	N3/10 43 —  — 44 (11D) (12D)	Ignition: OFF	55 – 65 Ω	⇒ 33.1 – 33.2, Data line.
33.1		CAN element in DAS control module (N54/1) Resistance	N3/10 43 —  — 44 (11D) (12D)	Ignition: OFF Disconnect connector D from engine control module N3/10, (Figure 11).	115 – 125 Ω	Wiring, N54 or N54/1
33.2		CAN element in engine control module (N3/10) Resistance	N3/10 43 —  — 44 (11D) (12D)	Ignition: OFF Disconnect connector D from test cable.	115 – 125 Ω	N3/10
34.0	PI 163	Oil level switch (S43)	N3/10 73 —  — 2 (17E) (2A)	Ignition: ON Oil level okay: Oil level low:	11 – 14 V < 1 V	Wiring, S43

Electrical Test Program – Sequential Multiport Fuel Injection System Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/remedy
35.0		Diagnosis line Activation		Ignition: ON	11 – 14 V	Wiring, N3/10

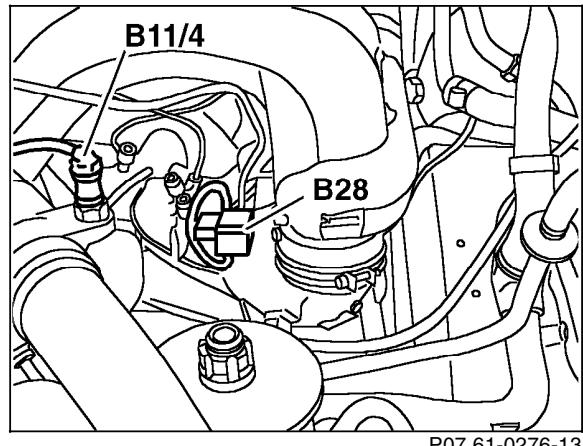
Electrical Test Program – Sequential Multiport Fuel Injection System Test

Figure 1
B28 Pressure sensor

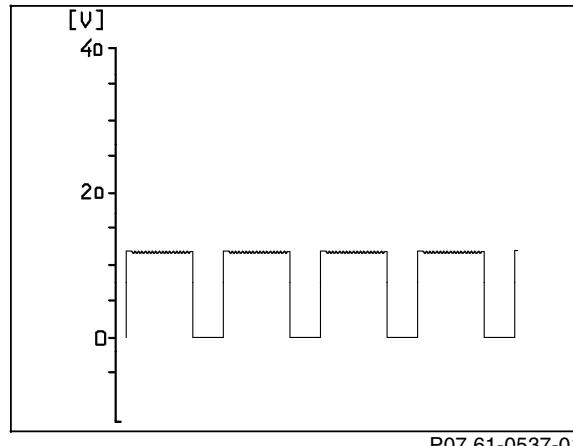


Figure 2
TN signal

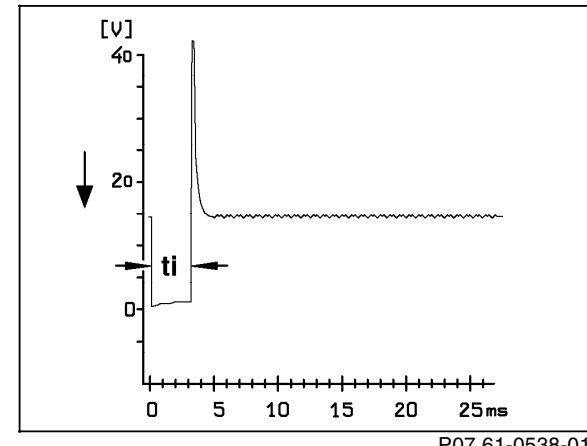


Figure 3
Injection duration "ti" at CTP

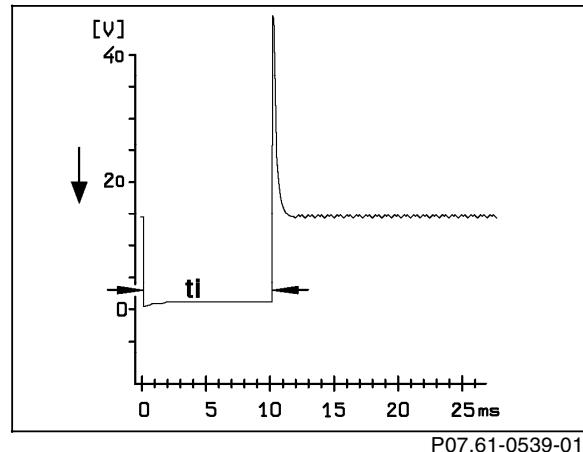
Electrical Test Program – Sequential Multiport Fuel Injection System Test

Figure 4
Injection duration "tI" at WOT

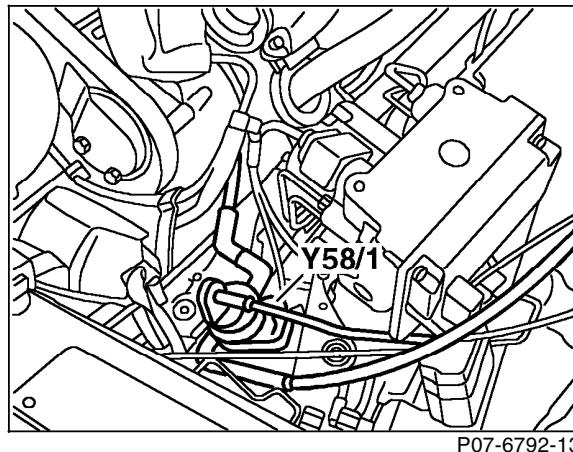


Figure 5
Model 129
Y58/1 Purge control valve

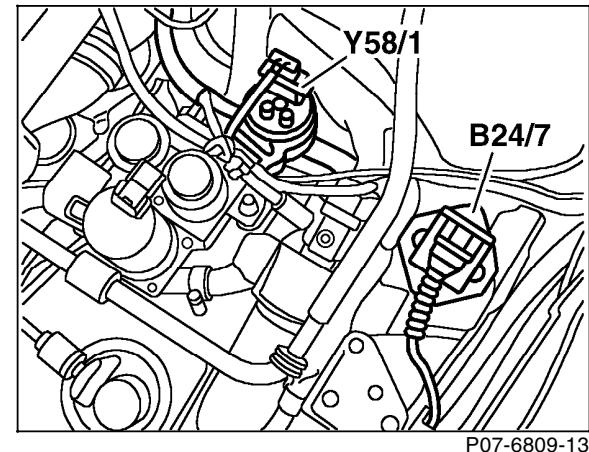
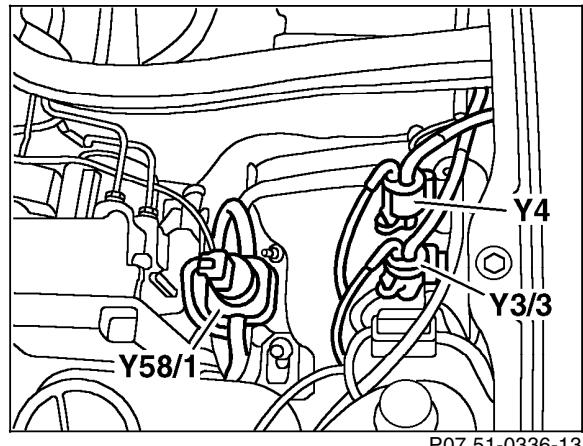
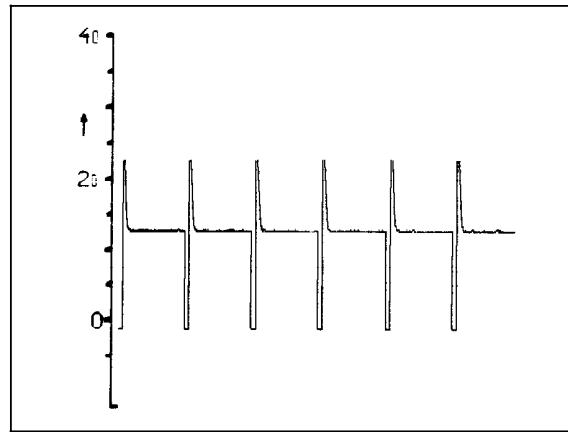


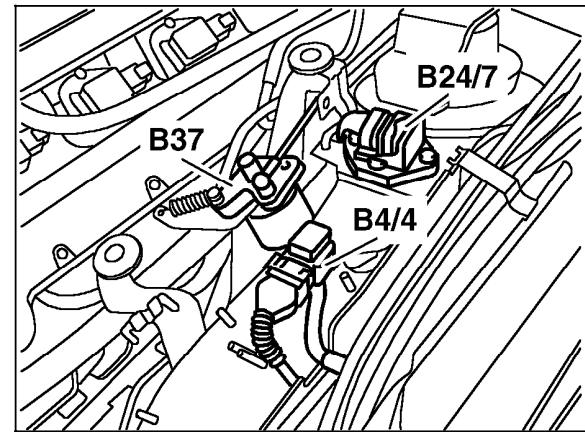
Figure 6
Model 140
Y58/1 Purge control valve

Electrical Test Program – Sequential Multiport Fuel Injection System Test

P07.51-0336-13



P07-5330-13



P07-6791-13

Figure 7

Model 210

Y58/1 Purge control valve

Figure 8

Purge control valve signal

Figure 9

Model 129

B4/4 Fuel tank emissions monitoring pressure sensor

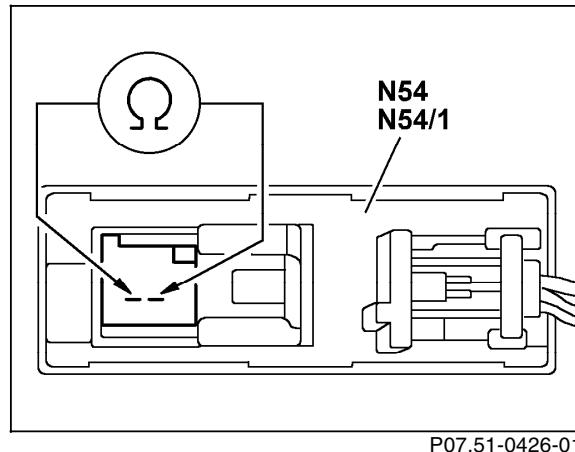
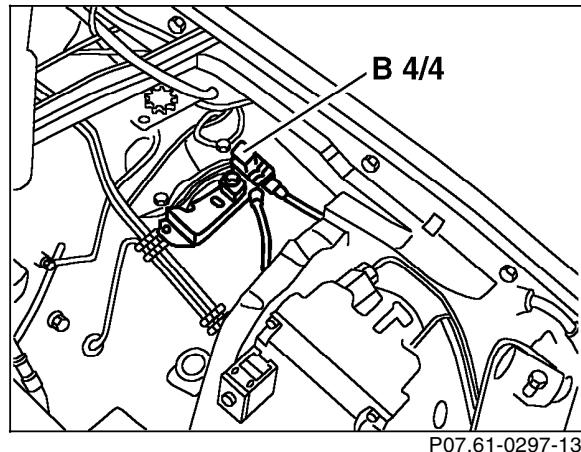
Electrical Test Program – Sequential Multiport Fuel Injection System Test

Figure 10
Model 202
B4/4 Fuel tank emissions monitoring pressure sensor

Figure 11
N54/1 DAS control module