
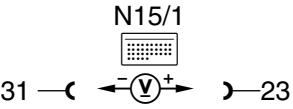
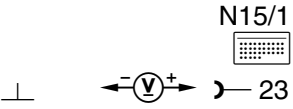
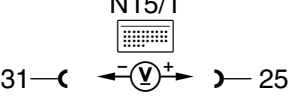

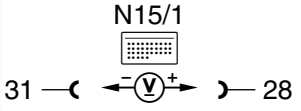
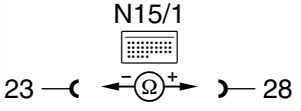



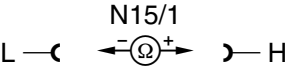
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0		Transmission control module (TCM) (N15/1) Voltage supply Circuit 87 SA	 <p>N15/1 31 —(←(V)→)— 23</p>	Ignition: ON	11 – 14 V	⇒ 1.1, Ground (electronics output ground - right footwell) (W15), Wiring.
⇒ 1.1		Voltage supply from base module (N16/1)	 <p>N15/1 ⊥ ←(V)→)— 23</p>	Ignition: ON	11 – 14 V	Wiring, Fuse (F3) at base module (N16/1), ⇒ 1 23
⇒ 2.0		Diagnosis output	 <p>N15/1 31—(←(V)→)— 25</p>	Ignition: ON	10 – 14 V	Wiring, TCM (N15/1).

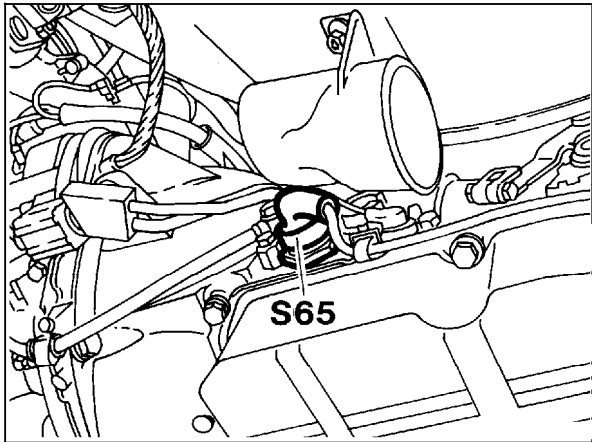
Electrical Test Program – Test

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 3.0		TR “D” contact switch (S16/9) Activation		Ignition: ON Selector lever in: P-R-N-D 4-3-2	 11 – 14 V < 1 V	⇒ 3.1
⇒ 3.1		Switch operation		Ignition: OFF Disconnect TCM (N15/1). Selector lever in: P-R-N-D 4-3-2	 < 1 Ω > 20 Ω	Wiring, S16/9

Electrical Test Program – Test

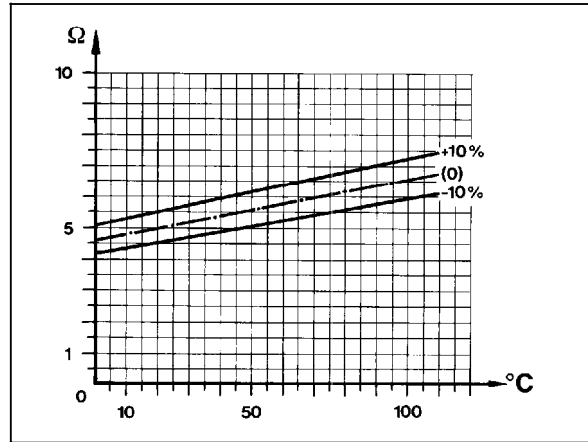
⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
10.0	004 005 006	CAN data bus	 <p style="text-align: center;">N15/1</p>	Ignition: OFF Disconnect contact module or TCM (N15/1). Test with ohmmeter directly at the two wide pins in the TCM (N15/1) connector.	55 – 65 Ω	Databus, Check resistance directly at LH-SFI (N3/1), DI/KSS (N1/3), HFM-SFI (N3/4), EA/CC/ISC (N4/1) or CC/ISC (N3/4) control modules. See D.M., Engines and D.M., Body and Accessories.

Electrical Test Program – Test



P27-5095-13

Figure 1
S65 Transmission overload protection switch

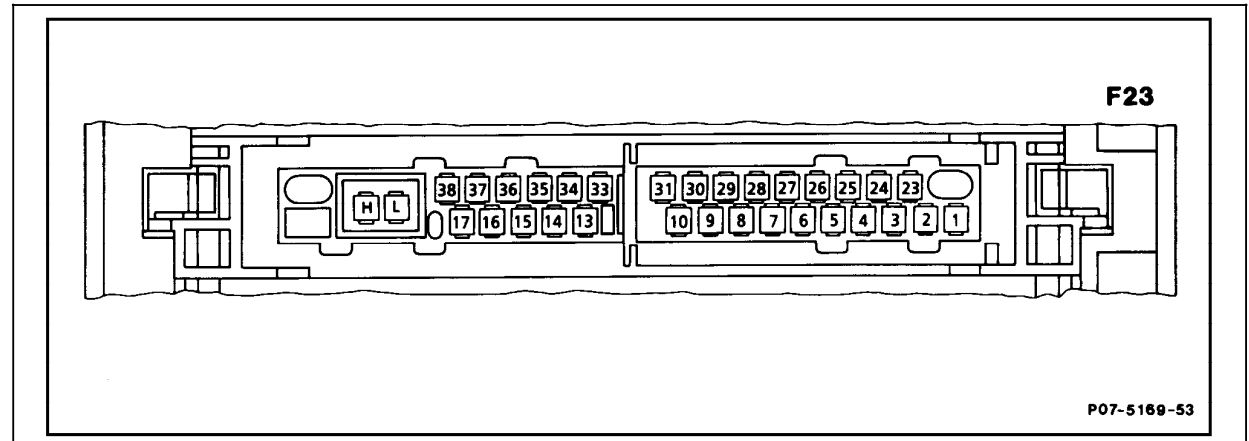


P27-0187-13

Figure 2
Diagram
Resistance of kickdown solenoid valve (Y3/1y2) dependent on temperature

Electrical Test Program – Test

TCM (N15/1) connector layout
 Models 140, 129 control module
 Located in module box (aluminum)



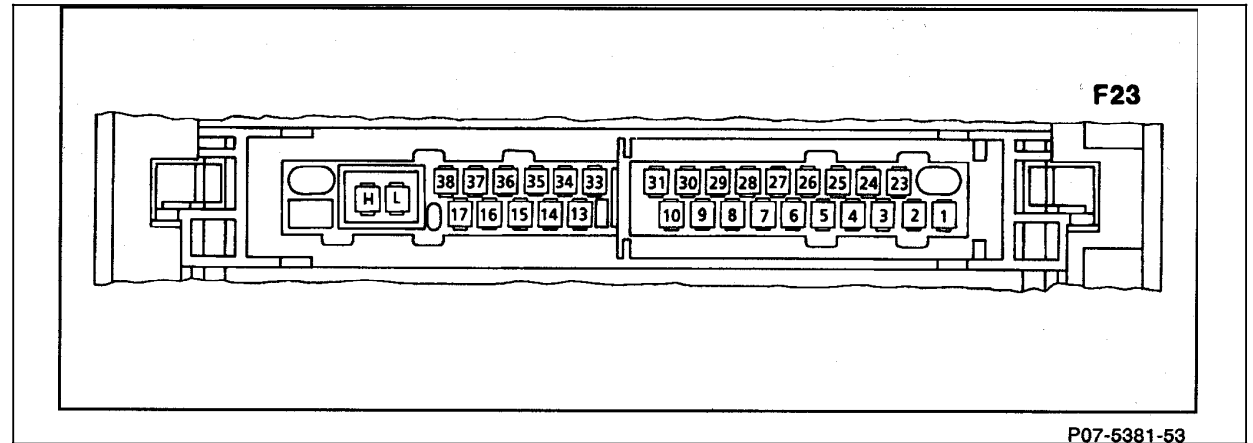
P07-5169-53

Figure 3

F23	Module box	30	Not used
1	Valve block control valve (Y3/1y2) (+)	31	Ground (W15)
2-9	Not used	33	Not used
10	Valve block control valve (Y3/1y2) (-)	34	Transmission overload protection switch (S65)
13-17	Not used	35-38	Not used
23	Voltage supply circuit 87SA (from base module N16/1)	L	CAN Data line (-)
24	Not used	H	CAN Data line (+)
25	Diagnosis (output)		
26	Not used		
27	Kickdown switch (S16/6)		
28	TR "D" contact switch (S16/9)		
29	Transmission mode switch (S16/5)		

Electrical Test Program – Test

TCM (N15/1) connector layout
 Models 129, 140 control module
 Located in module box (plastic)



P07-5381-53

Figure 4

1	Valve block control valve (Y3/1y2) (+)
2-9	Not used
10	Valve block control valve (Y3/1y2) (-)
12-17	Not used
23	Voltage supply circuit 87SA
24	Not used
25	Diagnosis (output)
26	Not used
27	Kickdown switch (S16/6)
28	TR "D" contact switch (S16/9)
29	Transmission mode switch (S16/5)
30	Ground (W15, W15/1)
33	Not used
34	Transmission overload protection switch (S65)
35-38	Not used
L	CAN Data line (-)
H	CAN Data line (+)