

2025 version

Normally used

Elimination selected

Not needed

-> = can be removed from the software

Connector 1 (96pin)	MB Abbreviation	Use	Device connector
15	NW-	Cam sensor -	pin1
26	NWS	Cam sensor signal	pin2
15	NW+	Cam sensor +5v	pin3
93	KW-	Crank sensor -	pin1
77	KW S	Crank sensor signal	pin2
7	KW +	Crank sensor +	pin3
96	TMCT-	Coolant temp sensor -	pin1
96	TMCT+	Coolant temp sensor +	pin2
96	TANS-	Charge air temp sensor -	pin1
96	TANS+	Charge air temp sensor +	pin2
93	RDR-	Pressure regulator -	pin1
23	RDR+	Pressure regulator +	pin2
93	RD-	Rail sensor -	pin1
93	RDS	Rail sensor signal	pin2
43	RD+	Rail sensor +5v	pin3
87	IDF-	Map sensor -	pin1
92	IDF	Map sensor signal	pin2
43	IDF+	Map sensor +5v	pin3
OM642 INJECTORS			
1	Y1	Injector1 ground	Pin2
26	Y1	Injector1 voltage	Pin1
2	Y2	Injector2 ground	Pin2
23	Y2	Injector2 voltage	Pin1
3	Y3	Injector3 ground	Pin2
76	Y3	Injector3 voltage	Pin1
25	Y4	Injector4 ground	Pin2
76	Y4	Injector4 voltage	Pin1
26	Y5	Injector5 ground	Pin2
46	Y5	Injector5 voltage	Pin1
27	Y6	Injector6 ground	Pin2
84	Y6	Injector6 voltage	Pin1
	LDR+	Turbo actuator 12v	Pin1(Common 12v)
	LDR-	Turbo actuator ground	Pin2(Common ground)
<32>	LDR	Turbo actuator signal	Pin4
<94>	QCTRL	Quantity control valve	pin1
<47>	QCTRL	Quantity control valve	pin2
<86>	TKS-	Fuel temp sensor	pin1
<83>	TKS	Fuel temp sensor	pin2
<8>	P1-	Intake pressure-	pin1
<85>	P1	Intake pressure signal	pin2
<42>	P1+	Intake pressure +5v	pin3
<38>	OEL-S	Oil sensor signal	pin1
<38>	OEL-	Oil sensor-	pin2
	HFM	Left HFM	pin1(common 12v)
<37>	HFM	Left HFM	pin2
<98>	HFM	Left HFM	pin3
<99>	HFM	Left HFM	pin4
	HFM	Right HFM	pin1(common 12v)
<37>	HFM	Right HFM	pin2
<98>	HFM	Right HFM	pin3
<99>	HFM	Right HFM	pin4
<12>	R39/1	Vent line heater	pin1
	R39/1	Vent line heater	pin2(common 12v)
<42>	B60	Exhaust pressure sensor	pin1
<8>	B60	Exhaust pressure sensor	pin2
<81>	B60	Exhaust pressure sensor	pin3
<20>	M55	Intake manifold flap signal	pin3
<71>	Y27/9	EGR signal	pin1
<80>	G3/2	O2sensor	pin1
<37>	G3/2	O2sensor	pin2
<48>	G3/2	O2sensor	pin3
<8>	G3/2	O2sensor	pin5
<31>	G3/2	O2sensor	pin6
<83>	B19	Temperature upstream of KAT	pin1
<62>	B19	Temperature upstream of KAT	pin2
<24>	M16/6	Throttle valve actuator	pin1
<67>	M16/6	Throttle valve actuator	pin2
<41>	M16/6	Throttle valve actuator	pin3
<72>	M16/6	Throttle valve actuator	pin4
<11>	M16/6	Throttle valve actuator	pin6
98	LIN	LIN-bus (alternator)	pin1
98	LIN	LIN-bus (Glow relay)	pin12
34	S43	Oil level switch	Pin2
<40>	Y10/1	Power steering pump valve	Pin1
<40>	Y10/1	Power steering pump valve	Pin2(Common 12v)

Connector 2 (56pin)	MB Abbreviation	Use	Where to connect
1	87 A	12v	Battery with 20A fuse
2	87 B	12v	Battery with 10A fuse
3	87 C	12v	Battery with 20A fuse
3	31	Ground	Directly to battery or chassis ground
3	31	Ground	Directly to battery or chassis ground
3	31	Ground	Directly to battery or chassis ground
15	15	Ignition 12v	Ignition lock
46	5V PWG0	Throttle	pin1
46	SP2M PWG2-2	Throttle	pin3
46	SP2S PWG2-1	Throttle	pin4
46	SP1S PWG1-1	Throttle	pin5
46	SP1M PWG1-0	Throttle	pin6
	E_KUP	Clutch signal	Pin2
18	TNA	Data link RPM	OBD2 port pin3
23	Diag	Data link	OBD2 port pin7
42	HRL	ECU main power relay ground	Relay pin8
46	ANR	Starter relay ground	Relay Pin8
93	Can HIGH	Can HIGH	OBD2 port pin6
93	Can LOW	Can LOW	OBD2 port pin14
32	EKP	Fuel pump relay ground	Relay Pin8
36	PWM	AC Fan PWM	Pin4
<14>	B19/9	DPF Temperature sensor	Pin1
<27>	B19/9	DPF Temperature sensor	Pin2
<11>	B28/8	DPF differential pressure sensor	Pin1
<16>	B28/8	DPF differential pressure sensor	Pin3
<30>	B28/8	DPF differential pressure sensor	Pin2

ECU CONTROLS MAIN POWER RELAY WHEN CIRCUIT 15 IS POWERED!
YOU CAN CONNECT ALL OF THE FUSED 12V WIRES TO THAT RELAY!

OBD2 (16pin)
4 Ground
5 Ground
6 CAN-High
7 Data link from ecu
8 Ignition 12V
14 CAN Low
16 Battery 12V