2025 version

W163
W220

Connector A (8pin)	MB Abbreviation	Use	Where to connect
1	31	Ground	Directly to battery or chassis ground
2	31	Ground	Directly to battery or chassis ground
4	87D2	12V	Battery with 10A fuse
5	31	Ground	Directly to battery or chassis ground
6	ESG-0	Fan control PWM	Pin1
8		Charge air cooler pump	M44 Pin 2

Connector B (8pin)	MB Abbreviation	Use	Where to connect
1	31	Ground	Directly to battery or chassis ground
2	HRL	ECU supply relay ground	Relay ground
3	87D1	12V	Battery with 25A fuse
4	87D1	12V	Battery with 25A fuse

Connector C (40pin)	MB Abbreviation	Use	Device connector
1	EKP3	Fuel pump relay power	Relay power
11	EKP0	Fuel pump relay ground	Relay ground
7	PWG2_1	Throttle	Pin4
16	PWG1_0	Throttle	Pin6
17	PWG2_0	Throttle	Pin3
27	PWG1_1	Throttle	Pin5
36	PWG2	Throttle	Pin1
6	ANR0	Starter relay ground	Relay ground
5	KD1	Kickdown switch	Pin2
33	DIA	Data link	OBD2 port Pin 7
38	TNA	Data link RPM	OBD2 port Pin3

Connector D (12pin)	MB Abbreviation	Use	Device connector
4	CAN-H	Can High	OBD2 port pin6
17	CAN-L	Can Low	OBD2 port pin14
5	CRS1	Crash-signal	SRS-unit Pin 31
6	KL15	Ignition 12V	Ignition lock
2	SP2S	Throttle	Pin4
3	SP2M	Throttle	Pin3
7	SP1S	Throttle	Pin5
8	5V	Throttle	Pin1
13	SP1M	Throttle	Pin6
23	EKP0	Fuel pump relay power	Relay power
24	EKP3	Fuel pump relay ground	Relay ground
10	KD1	Kickdown switch	Pin1
22	KD2	Kickdown switch	Pin2

Connector E (48pin)	MB Abbreviation	Use	Device connector
43	PWM	Glow relay PWM	Relay Pin1
1	Signal ground	Oil sensor ground	Pin2
28	OEL S	Oil sensor signal	Pin1
40	OEL+	Oil sensor 5v	Pin3
5		Right MAF	Pin5
14	Signal ground 2	Right MAF	Pin1
13		Right MAF	Pin4
38		Right MAF	Pin2
44		Right MAF	Pin3
9		Left MAF	Pin5
14	Signal ground 2	Left MAF	Pin1
21		Left MAF	Pin4
36		Left MAF	Pin3
42		Left MAF	Pin2
6		Right turbo servo	Pin4
47		Right turbo servo	Pin1
-	Actuator ground	Right turbo servo	Pin2
23		Left turbo servo	Pin4
48		Left turbo servo	Pin1
-	Actuator ground	Left turbo servo	Pin2
11		Left EGR	Pin3
12		Left EGR	Pin1
24		Left EGR	Pin2
10		Right EGR	Pin3
32		Right EGR	Pin1
35		Right EGR	Pin2
33	KW+	Crankshaft sensor +	Pin2
34	KW-	Crankshaft sensor -	Pin1
22	NW-	Camshaft sensor ground	Pin1
45	NW S	Camshaft sensor signal	Pin2
46	NW+	Camshaft sensor 5v	Pin3
7	LT-	Boost temperature sensor ground	Pin 1
19	LT+	Boost temperature sensor 5v	Pin2
18	WT-	Coolant temperature sensor ground	Pin1
30	WT+	Coolant temperature sensor 5v	Pin2
26	RD S	Rail pressure sensor signal	Pin2
37	RD +	Rail pressure sensor 5v	Pin3
1	Signal ground	Rail pressure sensor ground	Pin1
20	SDF1	Boost pressure sensor ground	Pin1
25	SDF2	Boost pressure sensor 5v	Pin3
41	SDF0	Boost pressure sensor signal	Pin2

Connector F (21pin)	MB Abbreviation	Use	Device connector
11	M1S/S	Throttle valve actuator	Pin2
14	M1S/S	Throttle valve actuator	Pin3
20	M1S/S	Throttle valve actuator	Pin1
2	Y94	Quantity control valve	Pin2
8	Y94	Quantity control valve	Pin1
10	Y83	Intake manifold flaps valve	Pin2
18	Y83	Intake manifold flaps valve	Pin1
12	Y74	Rail pressure control valve	Pin1
16	Y74	Rail pressure control valve	Pin2
5	Y1	Injector 1 ground	Pin2
13	Y1	Injector 1 voltage	Pin1
3	Y2	Injector 2 ground	Pin2
1	Y2	Injector 2 voltage	Pin1
3	Y3	Injector 3 ground	Pin2
15	Y3	Injector 3 voltage	Pin1
5	Y4	Injector 4 ground	Pin2
7	Y4	Injector 4 voltage	Pin1
3	Y5	Injector 5 ground	Pin2
9	Y5	Injector 5 voltage	Pin1
5	Y6	Injector 6 ground	Pin2
21	Y6	Injector 6 voltage	Pin1
5	Y7	Injector 7 ground	Pin2
19	Y7	Injector 7 voltage	Pin1
3	Y8	Injector 8 ground	Pin2
17	Y8	Injector 8 voltage	Pin1

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

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