

BMW M50NV Motronic (3.1) Harness to EMU Plug

No.	Component	Motronic Pin	EMU Pin	Note
1	Injector 1	3	G7	
2	Injector 2	5	G15	
3	Injector 3	4	G23	
4	Injector 4	33	G6	
5	Injector 5	31	G14	
6	Injector 6	32	G22	
7	Ignition 1	25	G8	
8	Ignition 2	23	G16	
9	Ignition 3	24	G9	
10	Ignition 4	50	B16	
11	Ignition 5	52	B8	
12	Ignition 6	51	G14	
13	IAT/MAT	77	B21	
14	CLT	78	B4	
15	TPS +5V	59	B23	
16	TPS signal	12	B12	
17	TPS/IAT/CLT GND	43	B18	Wire as in Help User Manual
18	Crank Sensor (Signal)	67	B7	Make sure to connect the VR sensor in this polarity wrong polarity will delay one of the paired coils and not having stable RPM signal.
19	Crank Sensor (GND)	68	B18	
20	Fuel pump relay	1	G4/G5	Or any AUX
21	+12 V "ignition on"	56	G18	Fuse the adapter wire
24	Injector Flyback			Not used in EMU
25	engine relay activation	27	G4/G5	From software make to activate as soon as the EMU power up to give power to the coils and injectors
26	Camshaft Sensor (Signal)	16	B15	
27	Camshaft Sensor (GND)	44	B18	
28	RPM	74	B20	

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