



## ECU Pin Assignment

### General

ECU Type	P8 Pro
Firmware	194h

### Pin Assignment

Pin #	Factory wire color*	Polarity / signal	Function (ATTENTION: fields marked <b>bold</b> are different from OEM specs)
1	black		Ground (not to be connected on the same body part as ground for Pin 19)
2	green	0-1V/Ground or not connected	Signal Narrowband lambda sensor
3	orange/black	Ground	Crank sensor (Pin 1)
4	orange/white		Crank sensor (Pin 2, + on connector)
5		Ground	Cam sensor (Pin 1)
6		Ground	Knock sensor
7		0-5V, 2 pulses per rev	Aux. OUT 2: DIS RPM signal, min. impedance Rmin = 10kohm
8	blue/white	5V or not connected	<b>Aux IN 5: Map selection switch (map 1: not connected, map 2: connected to 5V (ECU pin #30))</b>
9	blue/yellow	0-5V	Aux. IN 1: General purpose analog input
10		0-5V	<b>Aux. IN 2: General purpose analog input**</b>
11	violet/black	Ground	Sensor ground feed (ECU ground)
12		0.5A max	Aux. OUT 1: configurable out, open collector (pulls to ground)
13		Ground or not connected	Aux. IN 3: ALS switch (active: connected to ground, inactive: disconnected)
14		Ground or not connected	Aux. IN 4: LC switch (active: connected to ground, inactive: disconnected)
15	blue/black	0.1-4.9V	MAP sensor input (Pin 1)
16		max 1A continious, 2A peak	Boost valve / air injectors output (pulls to ground)
17	pink/yellow	0.2-4.8V	TPS sensor input
18	green/white		Injector Nr. 4
19	black		Ground (not to be connected on the same body part as ground for Pin 1)
20	green/yellow	10-16V, 14V nominal	ECU power supply from main relay (Pin 87)
21	blue/grey		<b>Reserved for future use, do not connect</b>
22			Knock sensor
23	brown/white		Cam sensor (Pin 2)
24	green	Ground	Ignition module(s) ground (Pin 3)
25	white		1st ignition module trigger (Pin 6) (if DIS active: cylinders 2&3)
26			2nd ignition module trigger (Pin 6) (for DIS only: cylinders 1&4)
27	red/white		<b>Reserved for future use, do not connect</b>
28	green/white		Relay for fuel pump, idle valve, boost valve, lambda sensor (Pin 85)
29	red/blue		Coolant temperature sensor input
30		5V, stabilized	Sensor positive feed
31	blue/black		Air temperature sensor input
32	green/grey		Injector Nr. 2
33	grey		Injector Nr. 3
34	blue/yellow		Idle valve solenoid (Pin 1)
35	red		Injector Nr. 1

\* - supplied only as reference, due to wide variety of vehicles, colors may vary - **ALWAYS DOUBLE CHECK** prior to connecting any accessory

\*\* - if installed, check product specification