



Image 1: wiring harness PR-4

- Automotive Connector
- Flexible wires
- Shielded cable for crank and cam position

General

PR-8 wiring harness must be used as a basis for the ECU electrical installation.

Technical Specifications

Electrical characteristics

Automotive standard wires DIN 72551-6. Up to 150°C resistant and 300 V isolated.

1mm wire – 12 A capable

0,5mm wire – 9A capable

12 V supply

Mechanical characteristics

Molex connector

Superseal connector

8-way male MIKE connector

Length: 2,5 m

Waterproof connectors

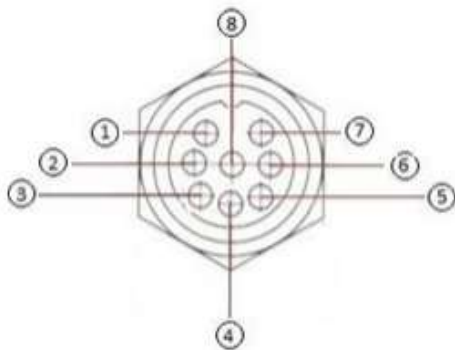
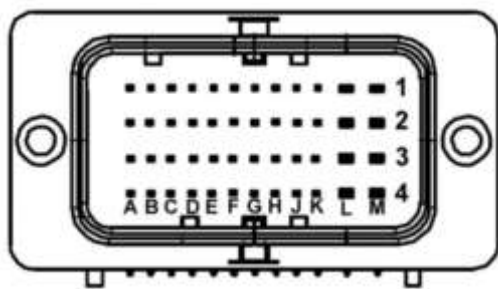


Image 2: MIKE male connector

Pin	Function
1	GND
2	12 V
3	-
4	CAN LOW
5	Can High
6	-
7	-
8	-

Wiring Harness PR-8

www.protuneelectronics.com.br



with the columns being identified by letters A to M and lines by numbers 1 to 4. All Pro Tune pre-wired harness has wires with identification printed on its cover.

This connector uses a letter and number system to identify each pin,

Power Supply		
Pin	Function	Label
L2	Sensor Ground	No Label
K3	Sensor 5 V	SENSOR 5V
L3	Power Ground	No Label
L4	Power Ground	No Label
M4	12 V Power	+12V_SWITCH

Crank Position Sensor		
Pin	Function	Label
F4	Positive Input - Crank Position Sensor (CKP+)	No Label
G4	Negative Input – Crank Position Sensor (CKP-)	No Label

Camshaft Position Sensor		
Pin	Function	Label
H4	Positive Input – Camshaft Position Sensor (CMP+)	No Label
J4	Negative Input – Camshaft Position Sensor (CMP-)	No Label

Injectors		
Pin	Function	Label
A1	Injector 1 Output	INJ_1
B1	Injector 2 Output	INJ_2
C1	Injector 3 Output	INJ_3
D1	Injector 4 Output	INJ_4
A4	Injector 5 Output	INJ_5
B4	Injector 6 Output	INJ_6
PIN_1	Injector 7 Output*	OUT_8
PIN_2	Injector 8 Output*	OUT_9

Communication		
Pin	Function	Label
A2	Pro Tune CAN Low	CAN_LOW
B2	Pro Tune CAN High	CAN_HIGH

Ignition		
Pin	Function	Label
H1	Ignition 1 Output	IGN_1
J1	Ignition 2 Output	IGN_2
K1	Ignition 3 Output	IGN_3
H2	Ignition 4 Output	IGN_4
J2	Ignition 5 Output	IGN_5
K2	Ignition 6 Output	IGN_6

Auxiliary Inputs		
Pin	Function	Label
C2	Auxiliary Input 1	IN_1
D2	Auxiliary Input 2	IN_2
E2	Auxiliary Input 3	IN_3
F2	Auxiliary Input 4	IN_4
G2	Auxiliary Input 5	IN_5
G3	Auxiliary Input 6	IN_6
F3	Auxiliary Input 7	IN_7
H3	Auxiliary Input 8	IN_8
J3	Auxiliary Input 9	IN_9
E4	Digital Input 2	DIG_IN2

Auxiliary Outputs		
Pin	Function	Label
G1	Auxiliary Output 1	OUT_1
F1	Auxiliary Output 2	OUT_2
E1	Auxiliary Output 3	OUT_3
L1	Electronic Throttle Control Output (positive)	ETC+
M1	Electronic Throttle Control Output (negative)	ETC-
M3	Auxiliary Output 6	OUT_6
M2	Auxiliary Output 7 *	OUT_7
K4	Main Relay Output	OUT_MAIN_RELAY

Lambda Sensor		
Pin	Function	Label
A3	Lambda – Heater Ground	LAMBDA1_HT-
B3	Lambda – Reference (when using dual lambda control, this pin serves as reference for both sensors)	LAMBDA1_SENSOR REF
C3	Lambda – Calibration	LAMBDA1_RCAL
D3	Lambda – Ipump	LAMBDA1_IP
E3	Lambda – Nernst Cell	No Label
C4	Lambda 2 – Calibration	LAMBDA2_RCAL
D4	Lambda 2 - Ipump	LAMBDA2_IP
D2	Lambda 2 – Nernst Cell * (black wire from sensor)	IN_2
M2	Lambda 2 – Heater Ground * (white wire from sensor)	OUT_7

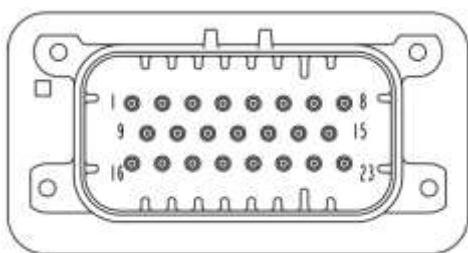


Image 4: Superseal connector

This connector uses a number system to identify each pin. All Pro Tune pre-wired harness has wires with identification printed on its cover.

Power Supply		
Pin	Function	Label
13	Sensor 5 V	SENSOR 5V
14	Sensor 8 V	SENSOR 8V
15	Sensor Ground	No Label

Auxiliaries Outputs		
Pin	Function	Label
1	Auxiliary Output 8 *	OUT_8
2	Auxiliary Output 9 *	OUT_9
3	Auxiliary Output 10	OUT_10
4	Auxiliary Output 11	OUT_11

Auxiliaries Inputs		
Pin	Function	Label
5	Auxiliary Input 10	IN_10
6	Auxiliary Input 11	IN_11
7	Auxiliary Input 12	IN_12
8	Auxiliary Input 13	IN_13
9	Digital Input 5	DIG_IN5
10	Digital Input 6	DIG_IN6
11	Digital Input 7	DIG_IN7
12	Digital Input 8	DIG_IN8
16	Auxiliary Input 14	IN_14
17	Auxiliary Input 15	IN_15
18	Auxiliary Input 16	IN_16
19	Auxiliary Input 17	IN_17
20	Thermocouple Input 1+	TC1+
21	Thermocouple Input 1-	TC1-
22	Thermocouple Input 2+	TC2+
23	Thermocouple Input 2-	TC2-