

Installer I/O Table



#	Wire Description	Installer Connection	Typical Application
A5	+14V	+14 Volt constant or switched	ECU main power supply
A6	Ignition Switch	+14 Volt ignition switched	Controls internal hold power relay, required to turn ECU on
B5	+14V E-Throttle	+14 Volt constant or switched	Powers H-bridge 1 and H-bridge 2. Up to 12Amp cont.
A8	Trigger 1		Reluctor, Proximity, Optical or Hall
A9	Trigger 2		
B9	Knock 1		
B8	Knock 2		Knock Sensors
A15	Analogue Temp Input 1		
A16	Analogue Temp Input 2		Configurable 1k or 10k to 5V, or no Pull-up
B6	Analogue Temp Input 3		
B7	Analogue Temp Input 4		
A17	Analogue Volt 1		
A22	Analogue Volt 2		0-5V Input from sensor or external controller
A33	Analogue Volt 3		
A14	Analogue Volt 4		
B33	Analogue Volt 5		
B15	Analogue Volt 6		
B16	Analogue Volt 7		
B23	Analogue Volt 8		
B24	Analogue Volt 9		
B31	Analogue Volt 10		
B32	Analogue Volt 11		
E12	Analogue Volt 12		
E13	Analogue Volt 13		
B14	Analogue Volt 14		
A30	Digital Input 1		
A31	Digital Input 2		
A23	Digital Input 3		
B21	Digital Input 4		
B20	Digital Input 5 / K-Line 1		Switched Input or Frequency Input, safe for use with retractor sensors. Configurable 4.7kΩ Pull-up to VBat
B19	Digital Input 6 / K-Line 2		
B30	Digital Input 7		
B29	Digital Input 8		
B28	Digital Input 9		
B27	Digital Input 10		
A21	ADIO 1		
A20	ADIO 2		
A19	ADIO 3		
A18	ADIO 4		
A29	ADIO 5		When used as Aux: PWM or General Switching Function, Low-side. Flywheeled. General Switching High-side, up to 2Amp continuous. When used as DI: Switched only, configurable 1.5kΩ Pull-up to VBat When used as AN Volt: 0-5V Input from sensor or external controller
A28	ADIO 6		
A27	ADIO 7		
A26	ADIO 8		
A32	+5V Out	TPS and MAP sensor power	
A13	Ignition 1		
A12	Ignition 2		
A11	Ignition 3		
A10	Ignition 4		Spare drives can be used as Auxillary Outputs, Flywheeled
B13	Ignition 5		
B12	Ignition 6		
B11	Ignition 7		
B10	Ignition 8		
A4	Injection 1		
A3	Injection 2		
A2	Injection 3		
A1	Injection 4		Wire Inj 1 to cyl 1, 2 to 2, 3 to 3, etc... Spare drives can be used as Auxillary Outputs
B4	Injection 5		
B3	Injection 6		
B2	Injection 7		
B1	Injection 8		
E4	Injection 9		
E3	Injection 10		
E2	Injection 11		
E1	Injection 12		
E11	Ignition 9 / Injection 13		
E10	Ignition 10 / Injection 14		
E9	Ignition 11 / Injection 15		
E8	Ignition 12 / Injection 16		
B18	Auxillary Output 1 / H-Bridge 1	(E-Throttle Motor 1 +)	E-Throttle Motor or PWM or General Switching Function, Flywheeled
B26	Auxillary Output 2 / H-Bridge 1	(E-Throttle Motor 1 -)	
E14	Auxillary Output 3 / H-Bridge 2	(E-Throttle Motor 2 +)	
E20	Auxillary Output 4 / H-Bridge 2	(E-Throttle Motor 2 -)	
E15	Auxillary Output 5 / WB1 Heat	Sensor White Wire (pin 3)	Wideband heater or PWM or General Switching Function, Low-side only, Flywheeled, Pull-up resistor
E22	Auxillary Output 6 / WB2 Heat	Sensor White Wire (pin 3)	
E16	WB1 RE	Sensor Black Wire (pin 6)	Wideband 1
E17	WB1 IPE	Sensor Yellow Wire (pin 2)	Bosch LSU 4.9 Wideband Lambda Sensors
E18	WB1 APE	Sensor Red Wire (pin 1)	
E19	WB1 MES	Sensor Green Wire (pin 5)	Sensor Grey Wire (pin 4) connect to an ignition switched supply (+14V)
E23	WB2 RE	Sensor Black Wire (pin 6)	
E24	WB2 IPE	Sensor Yellow Wire (pin 2)	Wideband 2
E25	WB2 APE	Sensor Red Wire (pin 1)	Bosch LSU 4.9 Wideband Lambda Sensors
E26	WB2 MES	Sensor Green Wire (pin 5)	
E5	CAN 2 High		Internal 120Ω terminating resistor
E6	CAN 2 Low		
A7	Shield Ground	Use for Trigger shields	Sensor shield drain
B17	Shield Ground	Use for Knock shields	
A24	Sensor Ground		For any sensors that need to ground to ECU
B22	Sensor Ground		
A25	Ground		To engine block or head (All 6 wires must run the entire way and connect to the same point)
A34	Ground		
B25	Ground		
B34	Ground		
E7	Ground		
E21	Ground		
Notes:			