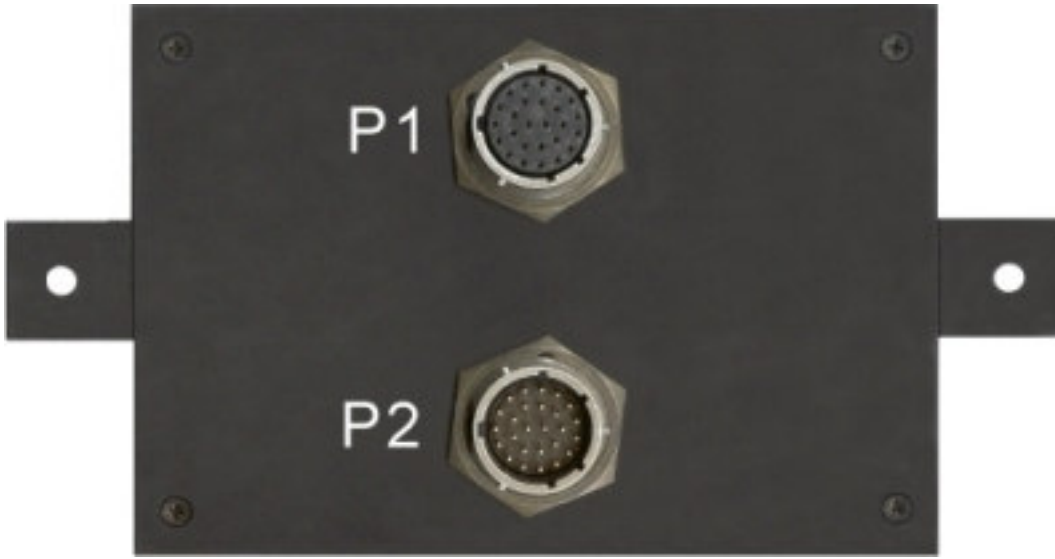


Hardware Manual for Dash 2k



Format of Pin Name: P1-X = pin X on connector P1

<u>Pin(s)</u>	<u>Reference Name(s)</u>	<u>Connection</u>	<u>Specifications</u>
P1-F P2-J P2-K	VBB	+12V	+12V Power for Dash.
P1-c P2-c	GND	Ground	Ground to Engine Block.
P1-N	P1	Button 1	Switched to Ground.
P1-M	P2	Button 2	Switched to Ground.
P1-K	P3	Button 3	Switched to Ground.
P1-L	P4	Button 4	Switched to Ground.
P1-J	OUTLD1	LED Output 1 or Gear Display Segment A	
P1-H	OUTLD2	LED Output 2 or Gear Display Segment B	
P1-G	OUTLD3	LED Output 3 or Gear Display Segment C	
P1-W	OUTLD4	LED Output 4 or Gear Display Segment D	
P1-P	OUTLD5	LED Output 5 or Gear Display Segment E	

P1-Y	OUTLD6	LED Output 6 or Gear Display Segment F	
P1-R	OUTLD7	LED Output 7 or Gear Display Segment G	
P2-E	INTOIL	Temperature Sensor Signal (i.e. Oil)	Thermistor with impedance in the range of 100 to 100,000 Ohms.
P2-E	INTENG	Temperature Sensor Signal (i.e. Engine)	Thermistor with impedance in the range of 100 to 100,000 Ohms.
P2-b	INTEXAUST1	Linear 0-5V Temperature Sensor 1 Input (i.e. Exhaust 1)	K-type thermocouple amplifier with 0-5V signal.
P2-T	INTEXAUST2	Linear 0-5V Temperature Sensor 2 Input (i.e. Exhaust 2)	K-type thermocouple amplifier with 0-5V signal.
P2-Y	GND	Ground for Temperature Sensors	
P2-H	VREF	5V Reference Voltage	Reference Voltage for Sensors
P2-F	POIL	Sensor Signal (i.e. Oil Pressure)	0-5V Input Signal
P2-L	GND	Ground for POIL Sensor	
P2-U	PTURBO	Sensor Signal (i.e. Turbo Pressure)	0-5V Input Signal
P2-M	GND	Ground for PTURBO Sensor	
P2-V	INPFUEL	Sensor Signal (i.e. Fuel Pressure)	0-5V Input Signal
P2-N	GND	Ground for INPFUEL Sensor	
P1-X	INRUOTA	Inductive Wheel Speed Signal	Inductive Sensor with peak-to-peak voltage of 12Volt.
P2-a	GND	Ground for Inductive Wheel Speed and Inductive Sensor Shield	
P2-Z	INGIRO	Trigger for Lap Timer	Rising edge of +12V triggers lap timer.
P2-D	INGIRI	Engine RPM Input	
P2-X	VREF	5V Reference Voltage	Reference Voltage for Sensors
P2-G	INTHROT	Sensor Signal (i.e. Throttle Position)	0-5V Input Signal
P2-C	INLEVEL	Fuel Level Sensor Signal	Resistor input with impedance in the range of XXX to XXX Ohms.
P2-B	INLAMBDA1	Lambda Sensor 1 Signal	Wideband lambda sensor with 0-5V signal.
P2-A	INLAMBDA2	Lambda Sensor 2 Signal	Wideband lambda sensor with 0-5V signal.

P2-R	INLIBERO1	Auxiliary Sensor Input 1	0-15V Input Signal
P2-S	INLIBERO2	Auxiliary Sensor Input 2	0-15V Input Signal
P2-Z	GND	Ground for INTHROT, INLEVEL, INLAMBDA1, INLAMBDA2, INLIBERO1, and INLIBERO2 Sensors	
P1-C	RXF	Receive for DAct	Pin 2 on male DB9 connector for DAct.
P1-D	TXF	Send for DAct	Pin 3 on male DB9 connector for DAct.
P1-U	RX	Receive for WinCons/GenTab	Pin 2 on male DB9 connector for WinCons/GenTab.
P1-E	TX	Send for WinCons/GenTab	Pin 3 on male DB9 connector for WinCons/GenTab.
P1-V	GND	Ground for Serial Communications	Pin 5 on male DB9 connector for DAct and pin 5 on male DB9 connector for WinCons/GenTab.