Badger.Pike :Engine Control Rev.4

70.0000 mm

12.9900 mm

2.1920 mm

If this resistor is not soldered then pin 7 and 8 will act like NC.

R7 is CANBUS 120ohms termination resistor
if this board is not at the end of bus then please remove this resistor.

J1: STLink/Debug Connector

Pin #	Func.
1	nRESET
2	SWCLK
3	SWO
4	SWDIO
5	GND
6	GND
7	3v3
8	3v3
9	NC
10	NC

Centroid Connector

Pin #	Func.
1	GND
2	IGN+
3	CONT0 / PB8
4	CONT1 / PB7
5	CONT2 / PB6
6	Burnout / PB5
7	CAN_H
8	CAN_L

BATT.

Pin #	Func.
1	Vcc
2	GND

J5: UART1 DBG

Pin #	Func.
1	Tx / PA9
2	Rx / PA10
3	GND

GPIO

Pin #	Func.
0	IO0 / PA0
1	IO1 / PA1
2	IO2 / PA2
3	IO3 / PA3

MCU PIN Map

Pin #	Func.
PC14	LED_HeartBeat
PB15	LED_Continuity
PC15	CHARGE
PB14	nDISCHARGE
PC13	IGN0
PB13	IGN1(PYRO1)
PA15	IGN2 (PYRO2)
PA12	CAN_TX
PA11	CAN_RX
PA4	MPL_INT1 (Pressure Sensor)
PA5	MPL_INT2 (Pressure Sensor)
PB10	SCL
PB11	SDA