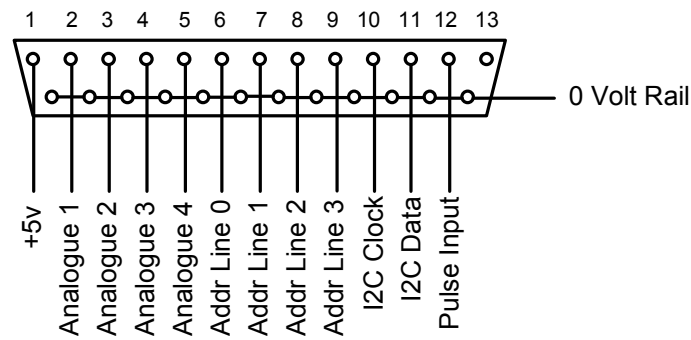
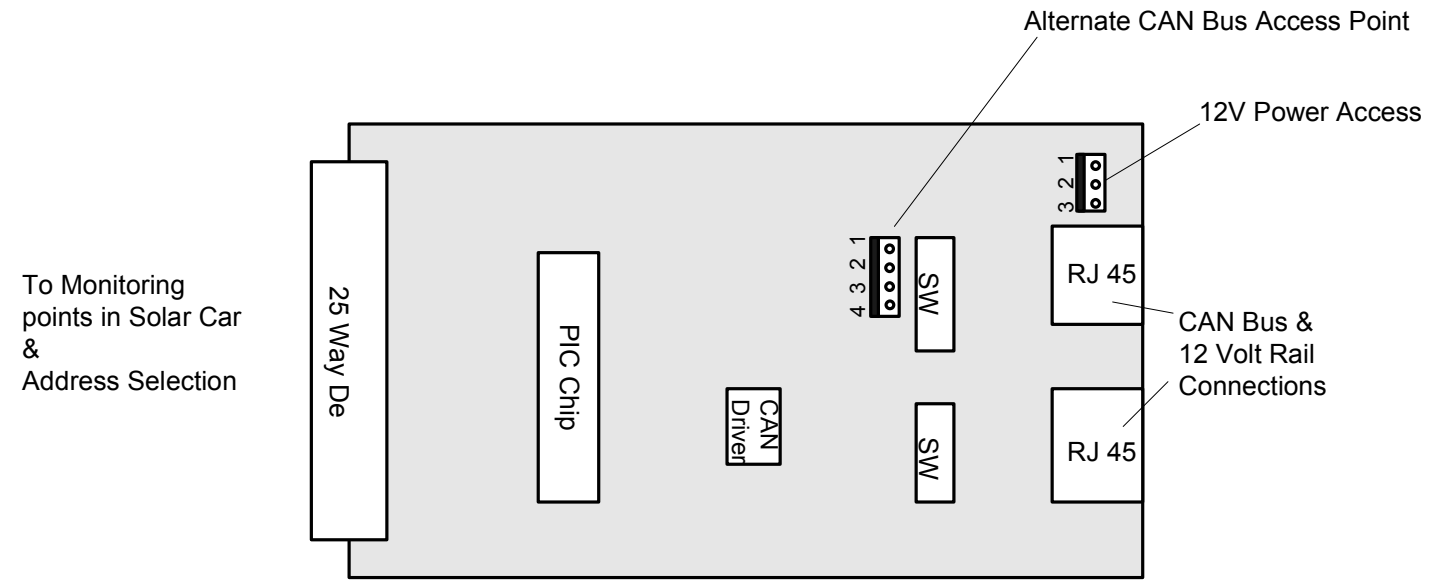


Front View of CAN Node / Rear View of 25 Pin Monitoring Plug



- Notes:-
1. CAN Node Connector = 25 Pin "D" Male
 2. External Connector = 25 Pin "D" Female
 3. Use Shell on External Connector
 4. +5 volt (Pin 1) is used for multiple connections
 5. Any 0 volt pin (14 to 25) can be used.

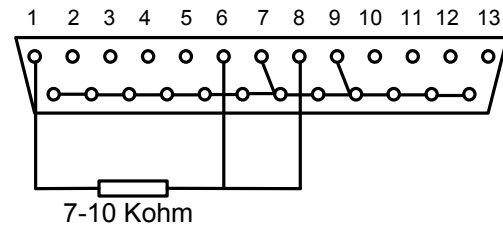
View of CAN Node



To Monitoring points in Solar Car & Address Selection

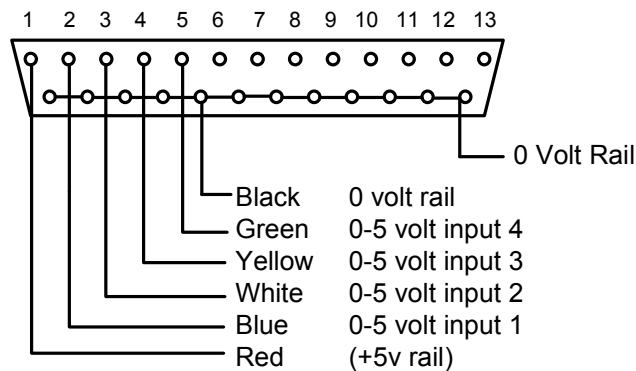
Note:- PCB is not to scale

Wiring Configuration for Addressing
(Install all wiring within shell of connector)

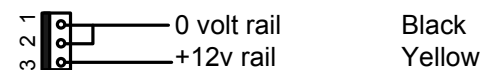


(Example Address = 5)

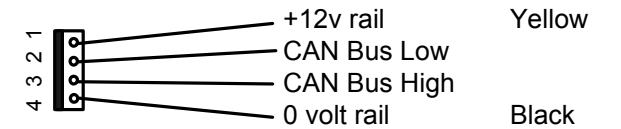
Wiring Configuration for Analogue Monitoring
(in addition to addressing configuration)



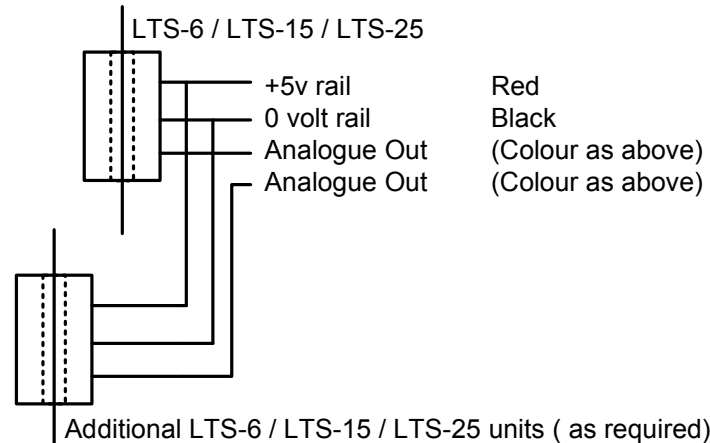
Wiring Configuration - 12V Access Point



Wiring Configuration - CAN Bus Access Point

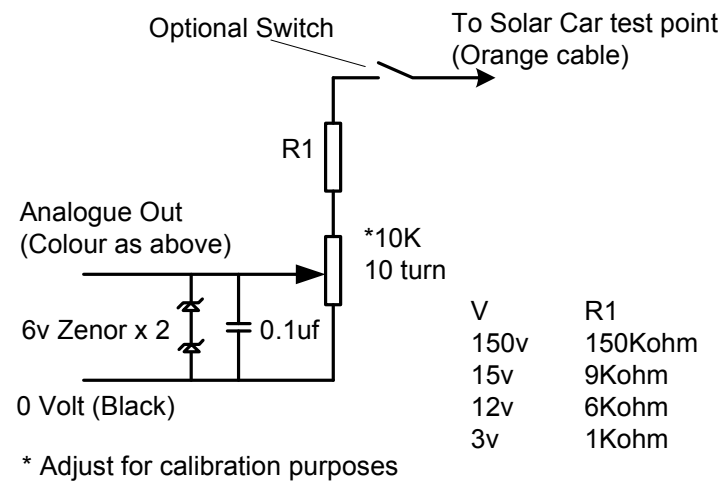


Wiring Configuration for Current Transducer



Additional LTS-6 / LTS-15 / LTS-25 units (as required)

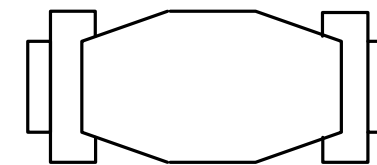
Wiring Configuration for Voltage Transducer



View of CAN232 Dongle

RS232 Port
9 pin Female De Connector

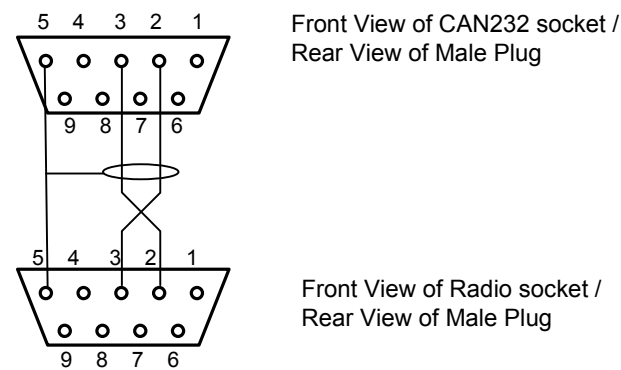
Connects direct to PC Com Port or via a Null Cable to Trio Data Radio



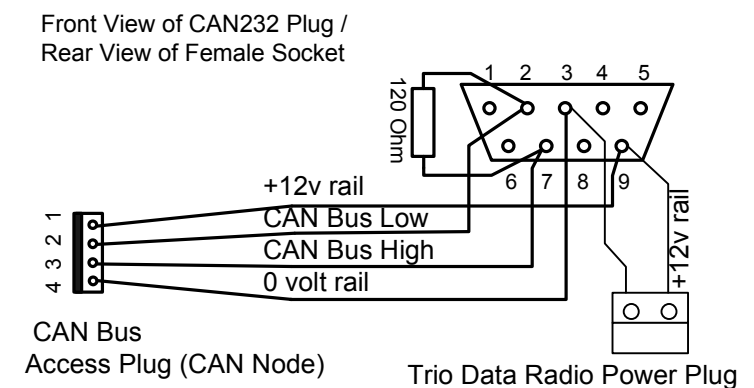
CAN Port
9 pin Male De Connector

Connects direct to CAN Node of Choice either via Can Bus Access Point or via RJ45 port.

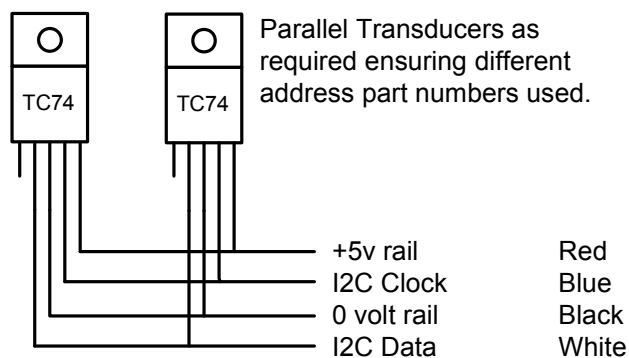
Interface Cable – CAN232 Dongle to Radio



Interface Cable – CAN Node to CAN232 Dongle



Wiring Configuration for I2C Temperature Transducers (TC74Ax-5.0VAT)



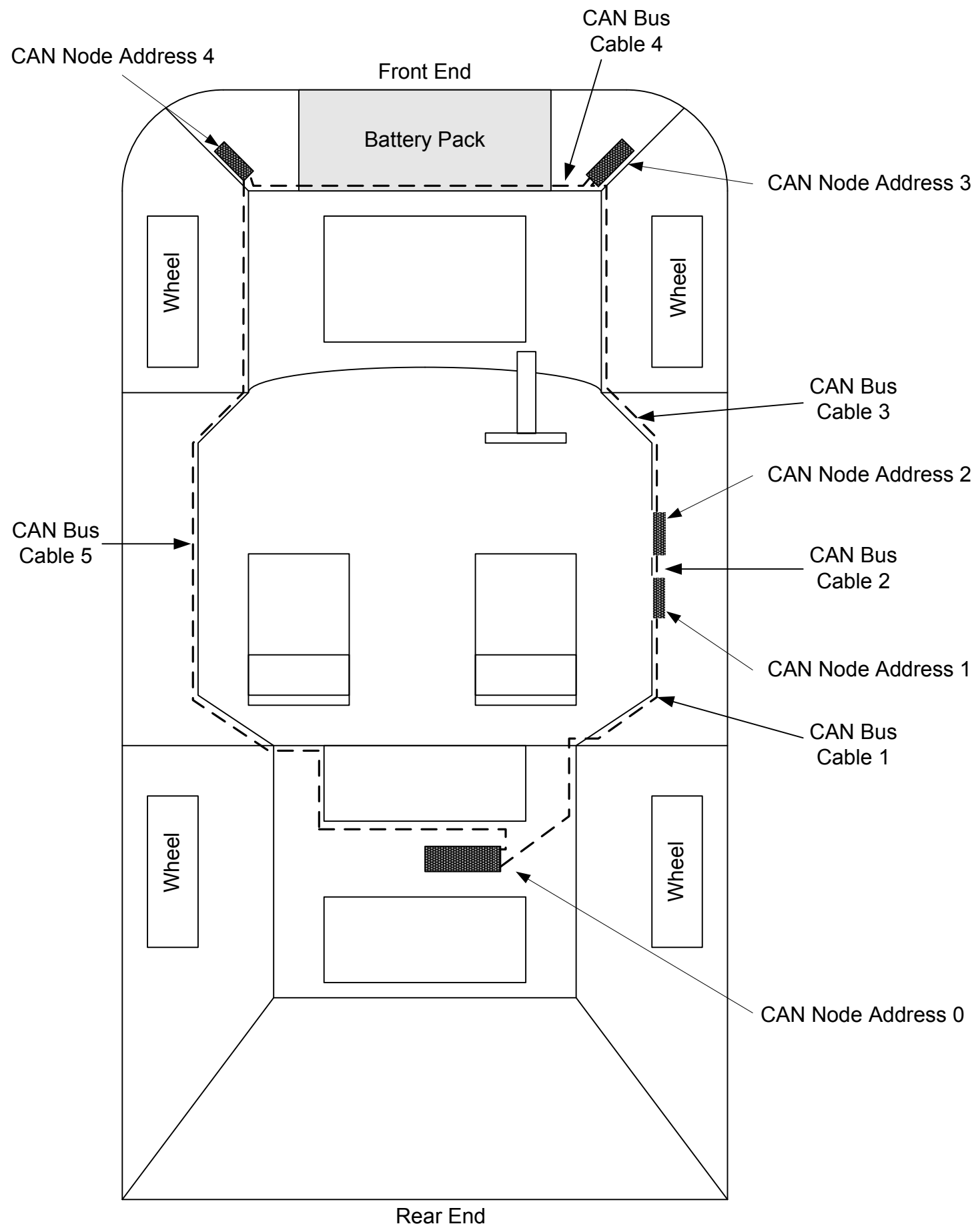
Wiring Configuration for Pulse Transducers

under construction

Drawing Released For Manufacture

Solar Car "Kelly" – CAN Node Interface Details

Kelly CAN Node Locations



Kelly CAN Node Configurations

<u>Node Addr.</u>	<u>Location</u>	<u>Monitoring</u>	<u>Range</u>	<u>Device No.</u>
00	Rear Shelf	Radio RSSI Motor Temp Cabin Temp Solar Array Temp Car Speed	0-5V 0-150 C 0-50 C 0-50 C 0-199	TC74Ax TC74Ax TC74Ax TBA
01	RHS Top	Array Current 1 Array Current 2 Array Current 3 Bus Volts 12 VDC Injection Point	0-6 Amp 0-6 Amp 0-6 Amp 100-150 V	LTS-6 LTS-6 LTS-6
02	RHS Bottom	Accelerator Control Regen Control Brake Activation Bus Volts CAN Bus Access Point	0-5 V 0-5 V 0-5 V 0-150V	
03	RHS Front	Battery 1 Current Battery 2 Current Bat Man – Battery 1 Bat Man – Battery 2	0-45 Amp 0-45 Amp 0-5 V 0-5 V	LTS-15 LTS-15
04	LHS Front	X Axis Y Axis Z Axis Ambient Temp Battery Pack 1 Temp Battery Pack 2 Temp	0-5 V 0-5 V 0-5 V 0-50 C 0-75 C 0-75 C	TC74Ax TC74Ax TC74Ax
CAN Bus Cable 1		Switch for Normal Use		
CAN Bus Cable 2		Switch for Normal Use		
CAN Bus Cable 3		Switch for Normal Use		
CAN Bus Cable 4		Switch for Normal Use		
CAN Bus Cable 5		Switch for Emergency Use		

Note: Kelly not to scale, Diagrammatic representation only.
 CAN Nodes in approximate position. Visual location required.
 All CAN Bus Cables CAT5e, Blue sheath, RJ45 Connectors. Cable tied to reduce physical fatigue.
 Antenna cable route not shown.

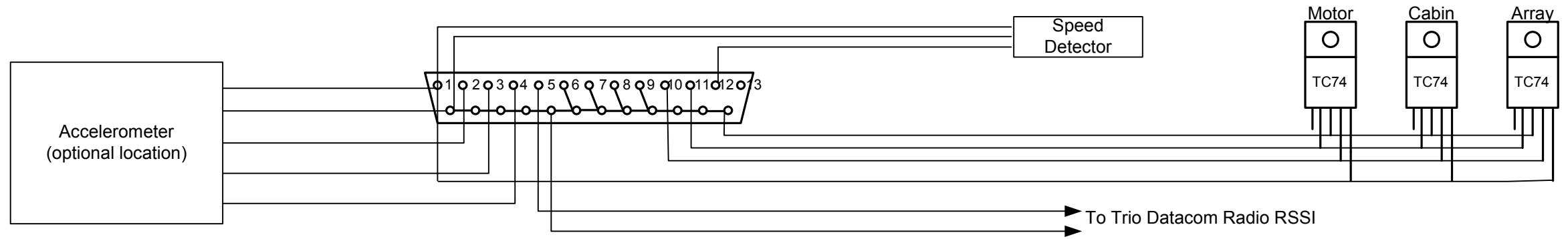
Do Not Use this Drawing for Solar Spirit

*Drawing Released For
 Manufacture*

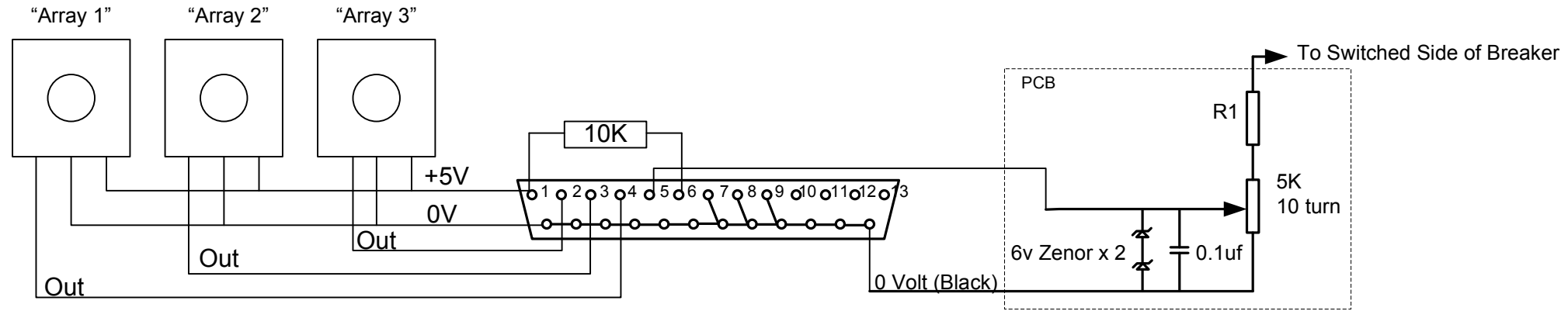
Solar Car “Kelly” – CAN Node Location Details

Drawn By Ian Rowley | Drawn 12/8/09 | Version 1.0 | Sht 2 of 3

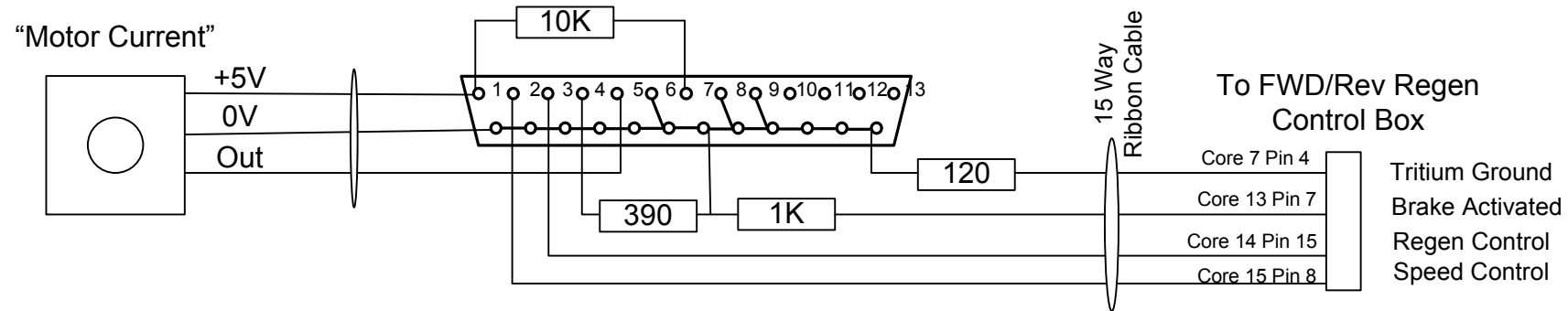
**CAN Interface
Node 00**



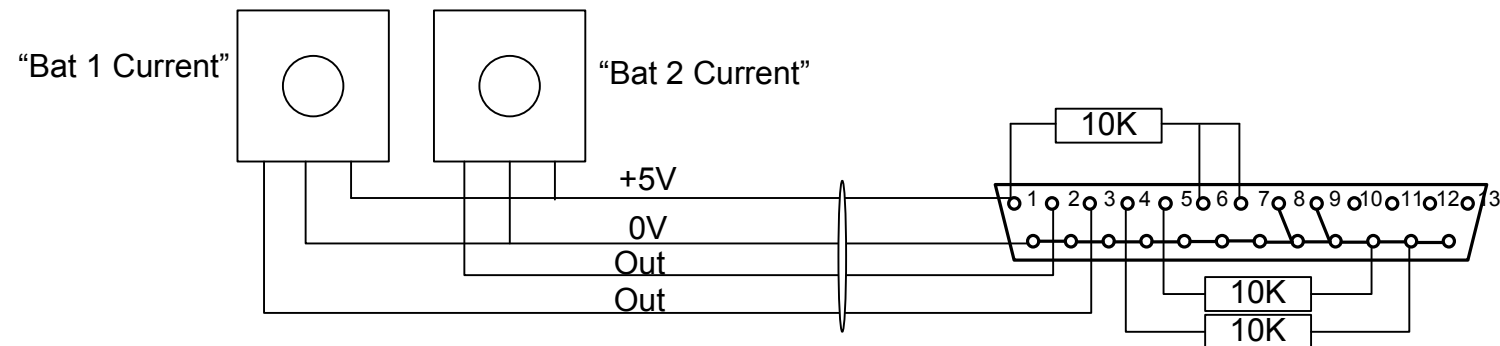
**CAN Interface
Node 01**



**CAN Interface
Node 02**



**CAN Interface
Node 03**



**CAN Interface
Node 04**

