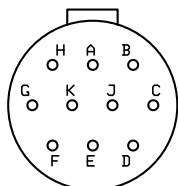


Dual Magnet Cable Interface

J1 Pinout looking into connector

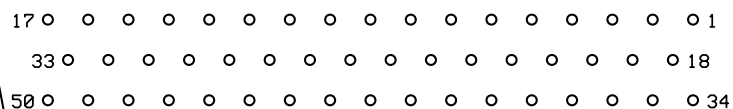


A - Magnet 1 Out
B - Magnet 1 Return
C - Magnet 2 Out
D - Magnet 2 Return

Connector Type:
Amphenol 12-10 Panel Plug, P/N PT02A-12-10P

Control and Power Interface

J2 Pinout looking into connector



Connector Type: DB-50 Female

1 - Magnet 1 V Monitor Out	12 - Magnet 1(Low) - 2(Hi) Select	24 - DAQ Control Ground Return
2 - Monitor 0V Reference Out	13 - Coarse Current Set Enable (Hi)	25-32 - ID Code
3 - Magnet 1 I Monitor Out	14 - Fine Current Set Enable (Hi)	34 - Magnet 2 V Monitor Out
4 - +12V Power	16 - DAQ Ready In	35 - Monitor 0V Reference Out
6 - +5V Power	17 - Remote Acknowledge Out	36 - Magnet 2 I Monitor Out
7 - +5V Power Return	20 - +/-12V Power Return (Ground)	37 - -12V Power
8 - Increment Current (Low->Hi->Low)	21 - +/-12V Power Return (Ground)	39 - +5V Power
10 - Step Up (Hi) - Down (Low)	22 - +/-12V Power Return (Ground)	40 - +5V Power Return
11 - Reset Magnet Current (Hi)	23 - DAQ Control Ground Return, ID Code 0 Ref	41 - ID Code 1 Ref

Motherboard Interface

P1 Pinout looking into connector

Connector key positioned on left, as shown

Remote Acknowledge Out	02	10	DAQ Ready In
Reset Magnet Current (Hi)	04	30	Magnet 1(Low) - 2(Hi) Select
Fine Current Set Enable (Hi)	06	50	Coarse Current Set Enable (Hi)
DAQ Control Ground Return	08	70	Increment Current (Low->Hi->Low)
Spare Control Input	010	90	Step Up (Hi) - Down (Low)
Magnet 1 Bias Out	012	110	Magnet 1 V Monitor Out
Magnet 1 Bias Return	014	130	Magnet 1 I Monitor Out
Magnet 2 Bias Out	016	150	Magnet 2 V Monitor Out
Magnet 1 Bias Return	018	170	Magnet 2 I Monitor Out
+5V Power	020	190	Monitor 0V Reference Out
+5V Power Return	022	210	+/-12V Power Return (Ground)
-12V Power	024	230	+12V Power

Connector Type: Waldom/Molex 2x12 0.1" CGrid-III
Housing 90142-0024, P/N WM8044-ND
Fem Crimp terminals 26-28 AWG 90119-2121, P/N WM2561-ND
Fem Crimp terminals 22-24 AWG 90119-2110, P/N WM2559-ND

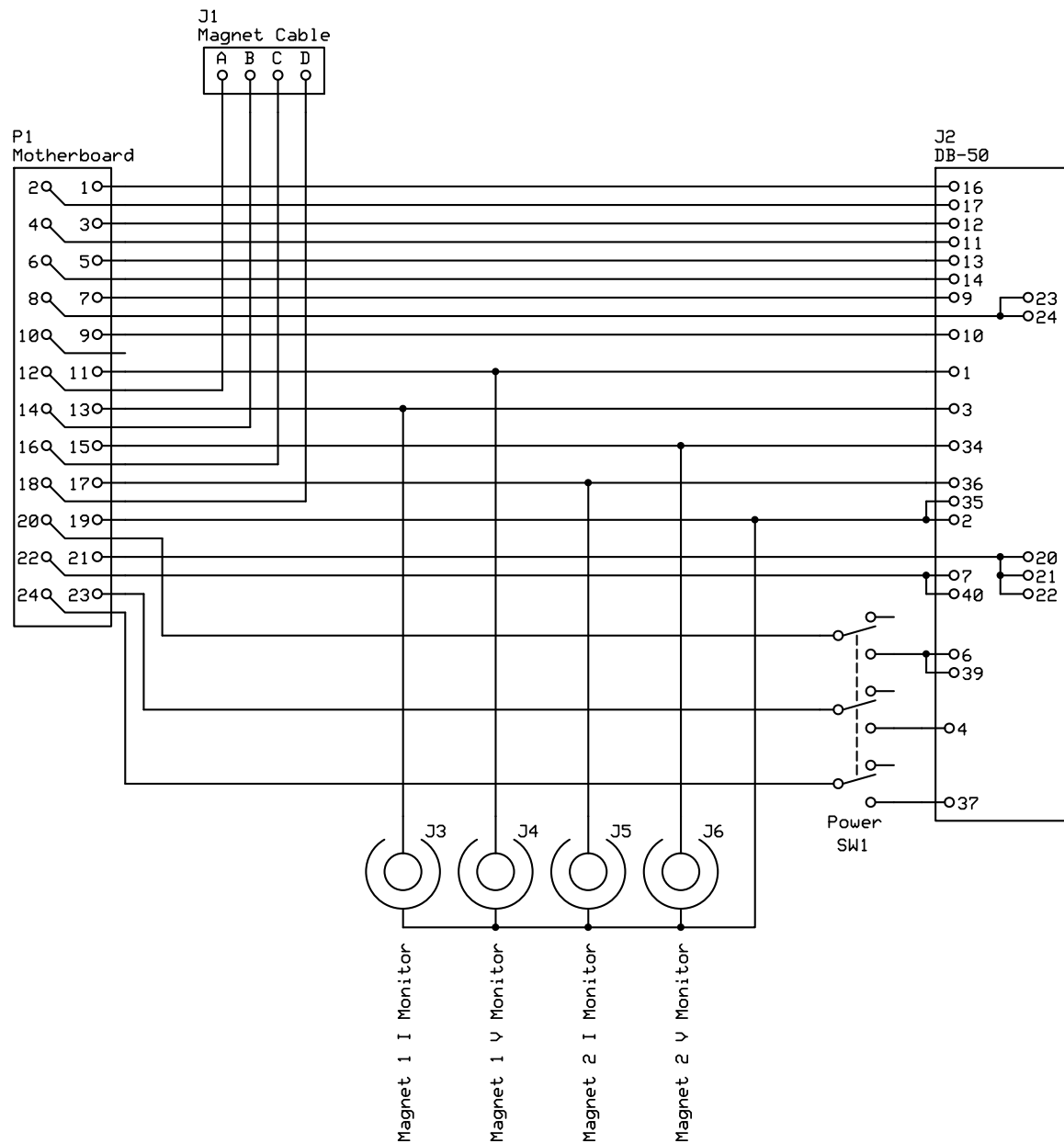
CSO Electronics Caltech

Magnet Wiring Harness

F. Rice

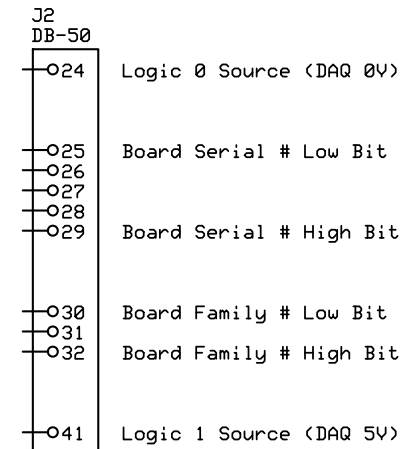
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Unit ID Code Wiring

Wire pins 25-32 individually to pin 24 or pin 41, as appropriate, to set the binary ID code



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Magnet Wiring Harness

F. Rice

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