Application Note #5470

AMP-1100/ICM-1x00 Revision A+B and Revision C Connections

The ICM/AMP-1100 was recently revised, and now uses slightly different screw terminals.

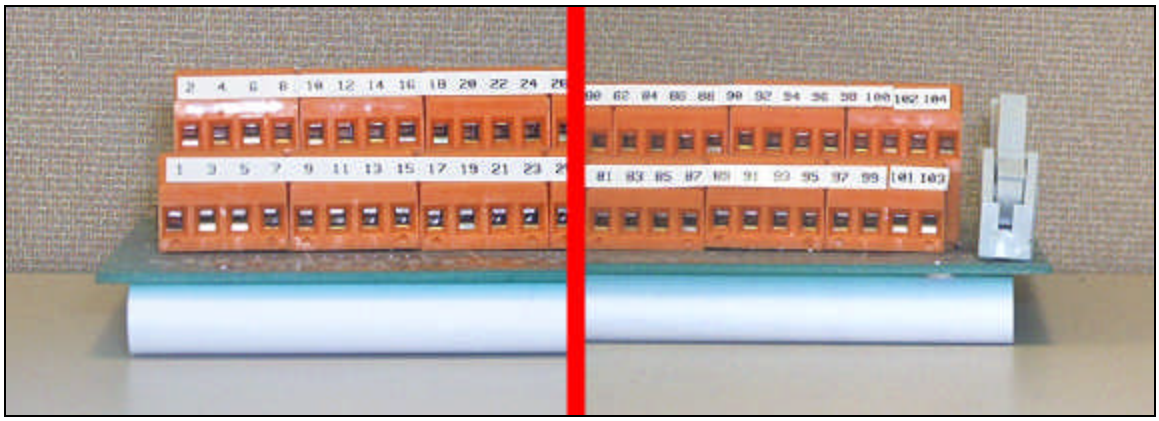

Figure 1- Rev A+B Orientation

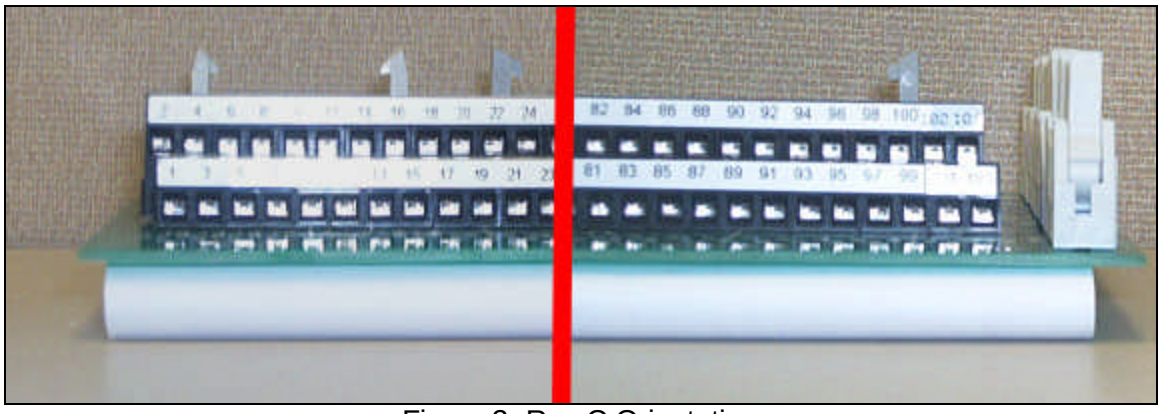

Figure 2- Rev C Orientation

Because of this, the white numeric labels on the top row terminals have been shifted by two. The PCB silkscreen remains the same.

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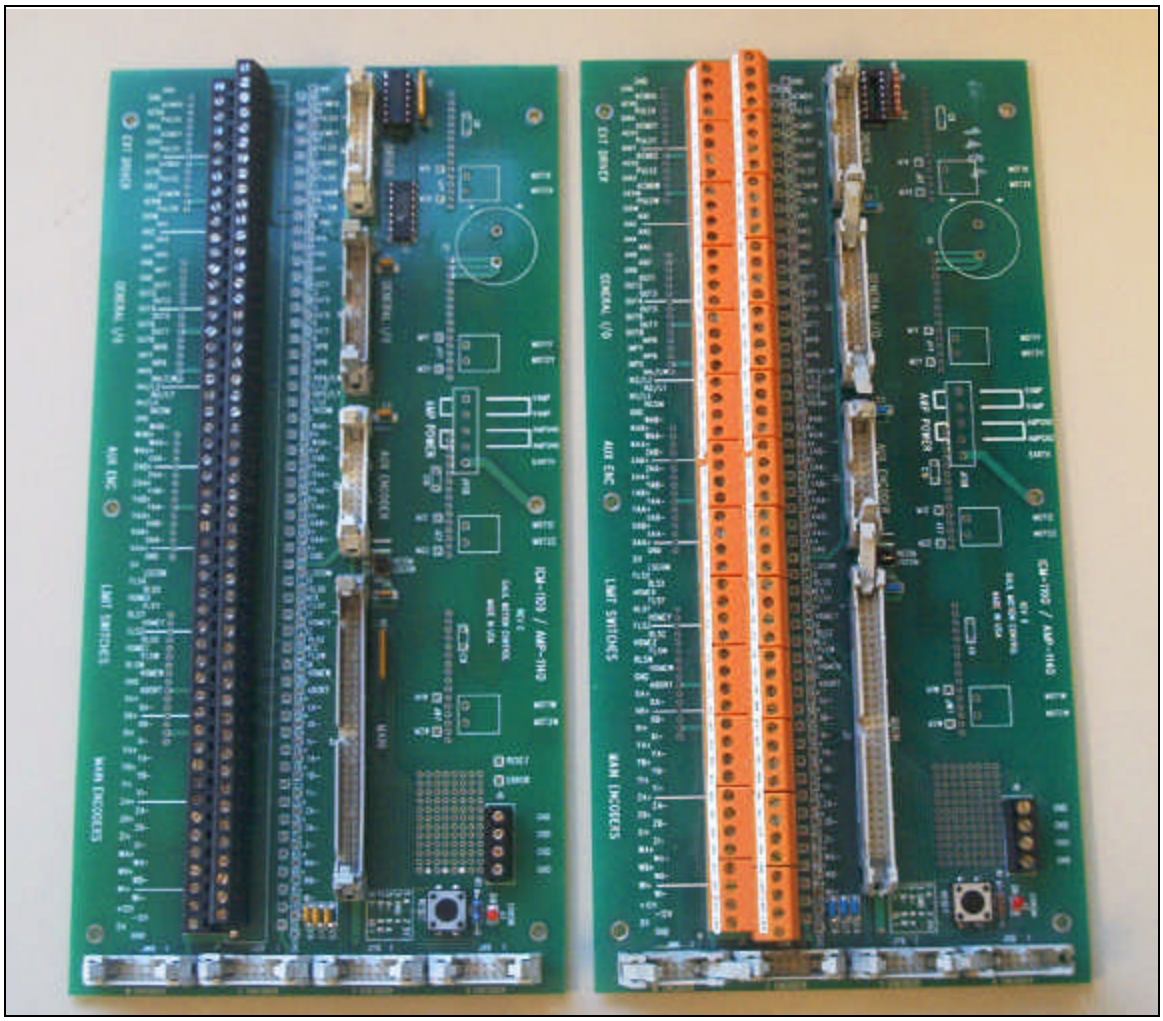

Fig. 3- New (left) and Old (right) ICM-1100

The pinouts as listed in the DMC-1000/DMC-1500 User Manual may not reflect these changes.

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Rev A+B boards (orange) and Rev C boards (black) have the pinouts listed below

Rev A + B Terminal #	Rev C Terminal #	Label	Description
	2	GND	Ground
1	1	GND	Ground
2	4	ACMDX	X input to servo amp
3	3	AENX	X amp enable
4	6	PULSX	X pulse input for stepper
5	5	DIRX	X direction input for stepper
6	8	ACMDY	Y amp input
7	7	AENY	Y amp enable
8	10	PULSY	Y pulse for stepper
9	9	DIRY	Y direction for stepper
10	12	ACMDZ	Z amp input
11	11	AENZ	Z amp enable
12	14	PULSZ	Z pulse for stepper
13	13	DIRZ	Z direction for stepper
14	16	ACMDW	W amp input
15	15	AENW	W amp enable
16	18	PULSW	W pulse for stepper
17	17	DIRW	W direction for stepper
18	20	AN1	Analog Input 1
19	19	AN2	Analog Input 2
20	22	AN3	Analog Input 3
21	21	AN4	Analog Input 4
22	24	AN5	Analog Input 5
23	23	AN6	Analog Input 6
24	26	AN7	Analog Input 7
25	25	GND	Ground

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Rev A + B Terminal #	Rev C Terminal #	Label	Description
26	28	OUT1	Digital Output 1
27	27	OUT2	Digital Output 2
28	30	OUT3	Digital Output 3
29	29	OUT4	Digital Output 4
30	32	OUT5	Digital Output 5
31	31	OUT6	Digital Output 6
32	34	OUT7	Digital Output 7
33	33	OUT8	Digital Output 8
34	36	INP8	Uncommitted Input 8
35	35	INP7	Uncommitted Input 7
36	38	INP6	Uncommitted Input 6
37	37	INP5	Uncommitted Input 5
38	40	INP4/LW	Uncommitted Input 4
39	39	INP3/LZ	Uncommitted Input 3
40	42	INP2/LY	Uncommitted Input 2
41	41	INP1/LX	Uncommitted Input 1
42	44	INCOM	Input common
43	43	GND	Ground
44	46	WAB-	W Auxiliary encoder B-
45	45	WAB+	W Auxiliary encoder B+
46	48	WAA-	W Auxiliary encoder A-
47	47	WAA+	W Auxiliary encoder A+
48	50	ZAB-	Z Auxiliary encoder B-
49	49	ZAB+	Z Auxiliary encoder B+
50	52	ZAA-	Z Auxiliary encoder A-
51	51	ZAA+	Z Auxiliary encoder A+
52	54	YAB-	Y Auxiliary encoder B-
53	53	YAB+	Y Auxiliary encoder B+
54	56	YAA-	Y Auxiliary encoder A-
55	55	YAA+	Y Auxiliary encoder A+
56	58	XAB-	X Auxiliary encoder B-
57	57	XAB+	X Auxiliary encoder B+
58	60	XAA-	X Auxiliary encoder A-
59	59	XAA+	X Auxiliary encoder A+
60	62	GND	Ground
61	61	5V	5 Volts
62	64	LSCOM	Limit common
63	63	FLSX	X Forward limit
64	66	RLSX	X Reverse limit

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Rev A + B Terminal #	Rev C Terminal #	Label	Description
65	65	HOMEX	X Home Input
66	68	FLSY	Y Forward limit
67	67	RLSY	Y Reverse limit
68	70	HOMEY	Y Home
69	69	FLSZ	Z Forward limit
70	72	RLSZ	Z Reverse limit
71	71	HOMEZ	Z Home
72	74	FLSW	W Forward limit
73	73	RLSW	W Reverse limit
74	76	HOMEW	W Home
75	75	GND	Ground
76	78	ABORT	Abort input
77	77	XA+	X Main encoder A+
78	80	XA-	X Main encoder A-
79	79	XB+	X Main encoder B+
80	82	XB-	X Main encoder B-
81	81	XI+	X Main encoder I+
82	84	XI-	X Main encoder I-
83	83	YA+	Y Main encoder A+
84	86	YA-	Y Main encoder A-
85	85	YB+	Y Main encoder B+
86	88	YB-	Y Main encoder B-
87	87	YI+	Y Main encoder I+
88	90	YI-	Y Main encoder I-
89	89	ZA+	Z Main encoder A+
90	92	ZA-	Z Main encoder A-
91	91	ZB+	Z Main encoder B+
92	94	ZB-	Z Main encoder B-
93	93	ZI+	Z Main encoder I+
94	96	ZI-	Z Main encoder I-
95	95	WA+	W Main encoder A+
96	98	WA-	W Main encoder A-
97	97	WB+	W Main encoder B+
98	100	WB-	W Main encoder B-
99	99	WI+	W Main encoder I+
100	102	WI-	W Main encoder I-
101	101	+12V	12V supply
102	104	-12V	-12V supply
103	103	5V	5V supply
104		GND	Ground

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