

Indicate Completed Sections With Initials At Left Of Section Heading.

Inspected By	Initials Used	Date

- ___ A. Record and Set Card Identification Information
 - ___ 1. Record PCB number from assembled card.
 - ___ 2. Record Barcode number from assembled card.
 - ___ 3. Refer to Reference table for SW7 settings.
 - ___ 4. Record SW7 value in table below.
 - ___ 5. Cut/install jumpers as needed to configure SW7.

1.	PCB I.D.									
2.	Barcode ID									
3.	Set SW 7 0 = open, 1 = jumper	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td> </tr> </table>								

- ___ B. Protect Barcode
 - ___ 1. Cover with Kapton Tape to protect from solvents.
 - ___ 2. Avoid taping over nearby vias.
- ___ C. Axial capacitors
 - ___ 1. Check polarity for axial capacitors used.
 - ___ 2. Install replacement capacitors as needed and available.

Loc.	Layer	X	Y	Value	Action	Condition	Status
C24	top	9.225	10.275	220 uF, 10V	polarity/value		
C26	top	9.175	1.253	33uF, 100V	install capacitor		
C56	top	5.850	1.250	2V mini-module	install module "+" to loc. label		
C63	top	4.700	0.850	33uF, 100V	install capacitor		
C115	top	0.950	1.550	5V mini-module	install module "+" to loc. label		

Initial Inspection & Checklist
Clock and Control Card

___ D. Check fuse values

Loc.	Layer	X	Y	Value	Condition	Status
F1	top	10.225	10.275	1 amp		
F2	top	9.825	2.075	1 amp		
F3	top	9.800	1.300	2 amp		
F4	top	9.800	0.400	2.5 amp		

___ E. Jumper locations

- ___ 1. Confirm or correct as required.

Loc	X	Y	Layer	Size	Test	Correction	Status
SW4	6.225	1.475	top	single	open		
SW5	6.225	1.075	top	single	open		
SW6	6.400	8.225	top	8x	open		
SW7	5.35	14.075	top	8x	set in step A		

___ F. Install DCC1: Vicor V48C2C50AL

- ___ 1. Assemble converter, thermal pad, heatsink, and mounting kit.
- ___ 2. Wrap shield/converter joint with copper tape.
- ___ 3. Seat pin sockets fully on converter pins.
- ___ 4. Install insulator, shield, and converter on PCB.
- ___ 5. Solder pin sockets and large pins to PCB.
- ___ 6. Test for shorts to shield/ground testpoint.

Pins btm layer 4 left, 3 right		Board Reading	Good Assembly	This Assembly	Status
•	-Vin	.000	.000		
•	PR	0L	.546		
•	PC	0L	0L		
•	+Vin	0L	0L		
•	-Vout	.040	.008		
•	SC	0L	0L		
•	+Vout	.000	.000		
Sample Readings taken on 4K ohm scale.					

- ___ G. Install DCC2: Lambda PAH75S48-5/V
 - ___ 1. Assemble converter and heatsink with M3 hardware (screw, lockwasher).
 - ___ 2. Position pin sockets on pins.
 - ___ 3. Knock out bottoms on small pin sockets.
 - ___ 4. Seat all pin sockets fully on converter pins.
 - ___ 5. Wrap shield/converter joint with copper tape.
 - ___ 6. Install insulator, shield, and converter on PCB with M3 hardware (screw, flat washer, lockwasher).
 - ___ 7. Solder pin sockets to PCB.
 - ___ 8. Test for shorts to shield/ground testpoint.

Pins btm layer 4 left, 5 right	Board Reading	Good Assembly	This Assembly	Status
• -Vin	.000	.000		
• Case	.000	.000		
• CNT	.000	.000		
• +Vin	0L	0L		
● -V	.027	.012		
• -S	.027	.012		
• TRM	0L	0L		
• +S	.000	.000		
● +V	.000	.000		
Sample Readings taken on 4K ohm scale.				

- ___ H. Connector hardware:
 - ___ 1. Confirm hardware present and loctite evident for P1,J2,J6,J7,J8,J9.
 - ___ 2. Install replacements as needed.
 - ___ 2. 300 pin Amp connector must have 1 thread forming screw per module, 2 per module optimal.

Loc.	connector	hardware	loctite	Status
J2	300 pin Amp RA	2-56		
J2	300 pin Amp RA	#2 thread form	n/a	
J6	15 pin hddsub RA	4-40		
J7	15 pin hddsub RA	4-40		
J8	15 pin hddsub RA	4-40		
J9	15 pin hddsub RA	4-40		
P1	128 pin Erni RA	2-56		

Initial Inspection & Checklist
Clock and Control Card

- ___ I. Check CTS resistors for shorts
 - ___ 1. Remove switch tape and set all switch positions to "OFF."
 - ___ 2. Visually inspect value printed on CTS resistor for correct rating.
 - ___ 3. Test neighboring pads for shorts.

Comp	Layer	X	Y	BOM Part	Value	Shorts	Status
R51	top	7.375	3.025	753101102G			
R64	top	6.400	3.025	753101102G			
R67	top	5.675	13.725	753101102G			
R71	top	5.400	7.775	753101102G			
R72	top	5.375	6.775	753101102G			
R77	top	5.125	13.725	753101102G			
R80	top	5.075	4.250	753101102G			
R81	top	5.075	3.225	753101102G			
R87	top	4.575	7.750	753101102G			
R88	top	4.575	6.775	753101102G			
R89	top	4.200	4.275	753101102G			
R90	top	4.200	3.250	753101102G			
R104	top	3.725	7.775	753101102G			
R105	top	3.875	5.925	753101102G			
R110	top	3.450	6.800	753101102G			
R115	top	3.350	4.275	753101102G			
R116	top	3.350	3.275	753101102G			
R128	top	2.575	8.825	753101102G			
R129	top	2.600	6.800	753101102G			
R130	top	2.450	5.100	753101102G			
R131	top	2.500	4.250	753101102G			
R132	top	2.500	3.300	753101102G			
R152	top	1.625	5.225	753101102G			
R197	btm	8.975	11.200	753101102G			
R208	btm	8.150	12.225	753101102G			
R221	btm	7.400	2.175	753101102G			
R234	btm	6.375	2.175	753101102G			
R243	btm	4.575	7.750	753101102G			
R244	btm	4.575	6.775	753101102G			
R247	btm	4.200	4.275	753101102G			
R248	btm	4.200	3.250	753101102G			
R250	btm	3.725	7.775	753101102G			
R251	btm	3.725	6.800	753101102G			
R252	btm	3.350	4.275	753101102G			
R253	btm	3.350	3.275	753101102G			
R254	btm	2.775	8.150	753101102G			
R255	btm	3.100	5.925	753101102G			

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Comp	Layer	X	Y	BOM Part	Value	Shorts	Status
R256	btm	2.575	8.825	753101102G			
R257	btm	2.600	6.800	753101102G			
R258	btm	2.500	4.250	753101102G			
R259	btm	2.500	3.300	753101102G			
R260	btm	1.700	8.825	753101102G			
R261	btm	1.725	6.800	753101102G			
R262	btm	1.600	4.275	753101102G			
R263	btm	1.600	3.300	753101102G			
R264	btm	0.775	5.175	753101102G			

___ J. Set SW3

Loc	X	Y	Layer	Test	Status
SW3	6.100	13.750	top	1-3 == ON 4-8 == OFF	

___ K. General Visual Inspection Note problems below and in e-log.

- ___ 1. Check overall for incorrectly rotated parts.
- ___ 2. Check overall for missing parts.
- ___ 3. Check overall for solder bridges, bent pins, etc.
- ___ 4. Check fine pitch parts for solder bridges.
- ___ 5. Check overall for clear vias.

Location	Reqst (date/init)	Problem	Correction	Completed (date/comment)	By init.