

REVISION HISTORY						
E.C.N	REV	DESCRIPTION	DATE	DWN	PE	CM
02N0912	A	INITIAL RELEASE DERIVED FROM 131934-3 REV A WITH FOLLOWING CHANGES: RENUMBERED NOTES. C101,C201 WERE 102465-1. C123,C223 WERE C 9157-6. HW17-HW24 WERE A11056-1. Q131,Q231 WERE 125106-1 Q132,Q232 WERE 102478-1. R117,R217 WERE A11371-3341. R184, R284 WERE A11368-20023. R185, R285 WERE A11368-10021. ADDED BAR CODE LABEL NOTE.	12/17/02	KBZ	PJ	

UNLESS OTHERWISE SPECIFIED, THIS PRINTED WIRING ASSEMBLY SHALL MEET THE SPECIFICATION DESCRIBED IN IPC-A-610\_ CLASS 2 STANDARDS.

NOTES:

1. PRINTED WIRING BOARD PART NUMBER 127450-6.
2. SEE 131934-4\_A.TIF FOR SCHEMATIC AND BOARD MAP
3. ALL LEADS SHALL BE TRIMMED TO 0.093" OR LESS.
4. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
5. MAP LOCATIONS DENOTED BY AN ASTERISK (\*), INDICATE COMPONENTS MOUNTED ON THE BOTTOM SIDE OF THE PRINTED WIRING BOARD.
6. REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES.
7. **WARNING! THIS STEP MUST BE DONE AFTER THE CLEANING PROCESS. WATER OR SOLVENTS ENTERING THE VENT HOLE WILL DAMAGE THE RELAY.** THE VENT HOLE ON TOP OF THE RELAYS (K100,K200) MUST BE OPENED AFTER THE CLEANING PROCESS, BY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMILAR CUTTING TOOL.
8. CONNECT WIRES FROM Q123 & Q223 TO WP4 AND WP5 RESPECTIVELY.
9. THE PWA PART NUMBER FOR THE MAIN MODULE SHALL BE MARKED ON THE TOP SIDE OF THE PRINTED WIRING BOARD AND SHALL BE PERMANENT. EITHER MARK THE APPROPRIATE BOX OR IF OUTDATED, COVER OLD CPN INFO WITH PROPERLY MARKED LABEL. SEE COMPONENT MAP FOR LOCATIONS.



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DWN	KBZ	12/17/02	PE	PJ	12/20/02	CM			DIST.			
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10. INSTALLATION OF U106 AND U206 IS AS FOLLOWS:
  - 10A. BEND TRANSISTOR AT 90 DEGREES FLAT SIDE DOWN.
  - 10B. PLACE TRANSISTOR INTO THE PWB AS SHOWN ON THE COMPONENT MAP DETAIL B.
  - 10C. MIX OUTPUT EPOXY (125482-1) AND ACTIVATOR (125483-1) TOGETHER AND APPLY THE MIXTURE TO THE TRANSISTOR AND HEATSINK. THE MIXTURE MUST FILL THE HEATSINK HOLE AND THE LEADS OF THE DEVICE, ESPECIALLY THE CENTER LEAD.  
*N NOTE: NO VISIBLE AIR GAPS AROUND THE TRANSISTOR AND THE TRANSISTOR LEADS CANNOT TOUCH THE HEATSINK*
  - 10D. HOLD THE TRANSISTOR AGAINST THE HEATSINK UNTIL EPOXY SETS UP.
11. TORQUE 6-32 HEX NUTS (132491-1) AS FOLLOWS:
  - 11A. PRE-WAVE TORQUE 13-15 IN/LBS.
  - 11B. NO POST WAVE TORQUING IS REQUIRED.
12. INSTALL J3 CABLE AS SHOWN ON COMPONENT MAP.
13. NO LABELS OR MARKINGS ALLOWED IN AREA INDICATED.
14. INSTALL A WIRE JUMPER AS SHOWN AT LOCATION S1.
15. INSTALL J6 CABLE AS SHOWN ON COMPONENT MAP.
16. CENTER HS6 (133515-1) OVER Q1,Q2,AND Q3 AND ATTACH WITH EPOXY MIXTURE.  
SEE NOTE 10.
17. INSTALL J2 (133614-1) WITH COMPONENTS FACING C4 & C5. AS SHOWN ON COMPONENT MAP.
18. BEFORE MOUNTING THE HEATSINKS REMOVE PROTECTIVE TAPE FROM INSULATOR/FISH PAPER (HW38 133679-1) AND APPLY AS SHOWN ON COMPONENT MAP.
19. INSTALL R1 & R2 WITH BLACK SQUARES FACING L102. AS SHOWN ON COMPONENT MAP.
20. INSTALL C105 WITH "+" FACING C124. AS SHOWN ON COMPONENT MAP.
21. INSTALL C2 ON THE TOP SIDE OF THE BOARD. AS SHOWN ON COMPONENT MAP.
22. USE SILICON SEALER (126825-1) TO SECURE R1 & R2 TO THE PWB. PUT THE SEALER BETWEEN THE RESISTORS ON THE PWB. MAKE SURE THE SEALER EXTENDS AT LEAST 1/4" UP THE RESISTOR BODY.
23. ADD FEET (133971-1) ADHERING TO THE PWA UNDER HEATSINKS IN AREA SHOWN ON COMPONENT MAP (16 PLACES).
24. REMOVE THE SCREWS USED IN FIXTURING THE TWO OUTSIDE TRANSISTORS: Q112, Q121, Q212, AND Q221 BEFORE ADDING CLIPS.
25. SEE FIGURE 2 ON SHEET 5 FOR HEATSINK TOP ASSEMBLY INSTRUCTIONS.  
TORQUE HW66 TO HW89 (QTY 24) (A10315-1) TO 16-18 IN/LBS.

REF. DES.	CPN	DESCRIPTION	MAP LOC.
C1	102466-1	10UF 250V 20% RADIAL T/R	J 8
C2	A10434-473JD	.047UF 250VDC 5% MET POLY T/A	F 10*
C3	125508-1	10UF 50V 20% SMT AL ELECT T/R	I 8
C4	C 4477-3	470 UF 35V VERT	G 10
C5	C 4477-3	470 UF 35V VERT	G 9
C6	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	H 10*
C7	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	H 9*
C12	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	I 9*
C20	D 8917-3	8200UF 110VDC ELECTROLYTIC	C 9
C21	D 8917-3	8200UF 110VDC ELECTROLYTIC	B 9
C22	C 7091-9	.33 UF 50V Z5U CHIP CAP	N 9*
C24	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 9*
C25	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	O 9*
C26	C 8576-8	100UF 35V 10% ALUM ELECT T/A	I 9
C27	C 5362-6	2.2UF 50V VERT ELECT T/A	H 10
C28	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	J 9*
C29	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	I 9*
C30	125508-1	10UF 50V 20% SMT AL ELECT T/R	I 8
C31	C 3679-5	33UF 50V 20% VERT ELECT	I 10
C100	103191-1	0.47UF 50V Z5U 1210 T/R	M 9*
C101	C 5362-6	2.2UF 50V VERT ELECT T/A	M 9
C102	C 6802-0	.47UF 50V AXIAL CER T/R 474	M 9
C103	102467-1	22UF 25V 20% RADIAL T/R	M 8
C104	102438-101K2	100PF 200V NPO 0805 T/R	M 9*
C105	C10208-4	100.UF 25V 20% RAD ELECT T/R	L 9
C106	102438-560K2	56PF 200V 10% NPO 0805 T/R	L 9*
C107	A11369-270K2	27PF 50V 10% NPO 0805 T/R	L 9*
C108	102438-820K2	82PF 200V 10% NPO 0805 T/R	L 10*
C109	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	H 6*
C110	A11369-471K2	470PF 50V 10% NPO 0805 T/R	M 7*
C111	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	N 8*
C112	A11427-123K2	.012 50V 10% X7R 0805 T/R	O 8*
C113	127299-1	47UF 6.3V 20% NP LYTIC SMT T/R	N 8
C114	127299-1	47UF 6.3V 20% NP LYTIC SMT T/R	N 8
C115	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	N 8*
C116	A11427-472K2	4700PF 50V 10% X7R 0805 T/R	N 7*
C117	A11427-272K2	2700PF 50V 10% X7R 0805 T/R	I 7*
C118	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	I 8
C119	A11427-472K2	4700PF 50V 10% X7R 0805 T/R	I 7*
C120	102438-101K2	100PF 200V NPO 0805 T/R	I 7*
C121	C10196-1	2.2UF 50V 20% LOW LEAK CAP	G 8
C122	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	F 8*
C123		OPEN	F 8
C124	C10196-1	2.2UF 50V 20% LOW LEAK CAP	L 9
C126	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 10*
C127	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 9*
C128	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 10*
C129	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	M 9*
C130	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	H 8*
C131	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	H 7*
C132	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	F 7*
C133	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	F 8*
C134	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	M 7*
C135	102438-101K2	100PF 200V NPO 0805 T/R	N 7*
C136	103210-1	2.2UF 160V RADIAL T/R	I 7
C137	103210-1	2.2UF 160V RADIAL T/R	I 7

C138	102438-820K2	82PF 200V 10% NPO 0805 T/R	M 7*
C139	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	G 7*
C140	C 7091-9	.33 UF 50V Z5U CHIP CAP	L 9
C141	A11369-471K2	470PF 50V 10% NPO 0805 T/R	N 10
C142	A11369-330J2	33 PF 50V 5% NPO MLC 0805	M 10
C143	A11427-103K5	0.01UF 50V 10% X7R SMD 1206	M 9*
C144	103191-1	0.47UF 50V Z5U 1210 T/R	G 7*
C145	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	N 8*
C146		OPEN	L 8*
C147		OPEN	M 8*
C200	103191-1	0.47UF 50V Z5U 1210 T/R	K 9*
C201	C 5362-6	2.2UF 50V VERT ELECT T/A	J 9
C202	C 6802-0	.47UF 50V AXIAL CER T/R 474	K 9
C203	102467-1	22UF 25V 20% RADIAL T/R	K 9
C204	102438-101K2	100PF 200V NPO 0805 T/R	J 9*
C205	C10208-4	100.UF 25V 20% RAD ELECT T/R	J 9
C206	102438-560K2	56PF 200V 10% NPO 0805 T/R	J 9*
C207	A11369-270K2	27PF 50V 10% NPO 0805 T/R	J 9*
C208	102438-820K2	82PF 200V 10% NPO 0805 T/R	J 10*
C209	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	H 3*
C210	A11369-471K2	470PF 50V 10% NPO 0805 T/R	K 7*
C211	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	K 7*
C212	A11427-123K2	.012 50V 10% X7R 0805 T/R	L 8*
C213	127299-1	47UF 6.3V 20% NP LYTIC SMT T/R	K 8
C214	127299-1	47UF 6.3V 20% NP LYTIC SMT T/R	K 8
C215	A11427-103K2	.01 UF 50V 10% X7R MLC 0805	K 8*
C216	A11427-472K2	4700PF 50V 10% X7R 0805 T/R	J 2*
C217	A11427-272K2	2700PF 50V 10% X7R 0805 T/R	D 1*
C218	A10434-104JD	.1UF 250V 5% MTL POLY FILM T/A	I 1
C219	A11427-472K2	4700PF 50V 10% X7R 0805 T/R	E 1*
C220	102438-101K2	100PF 200V NPO 0805 T/R	D 2*
C221	C10196-1	2.2UF 50V 20% LOW LEAK CAP	E 8
C222	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 8*
C223		OPEN	F 9
C224	C10196-1	2.2UF 50V 20% LOW LEAK CAP	J 9
C226	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	K 10*
C227	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	K 9*
C228	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	J 10*
C229	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	J 9*
C230	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 8*
C231	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 7*
C232	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 7*
C233	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 8*
C234	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	J 7*
C235	102438-101K2	100PF 200V NPO 0805 T/R	J 2*
C236	103210-1	2.2UF 160V RADIAL T/R	I 1
C237	103210-1	2.2UF 160V RADIAL T/R	I 1
C238	102438-820K2	82PF 200V 10% NPO 0805 T/R	J 7*
C239	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 7*
C240	C 7091-9	.33 UF 50V Z5U CHIP CAP	J 9
C241	A11369-471K2	470PF 50V 10% NPO 0805 T/R	L 10
C242	A11369-330J2	33 PF 50V 5% NPO MLC 0805	K 10
C243	A11427-103K5	0.01UF 50V 10% X7R SMD 1206	K 9*
C244	103191-1	0.47UF 50V Z5U 1210 T/R	E 7*
C245	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	K 8*
C500		OPEN	A 2
C501		OPEN	A 2
C502		OPEN	B 2
C503		OPEN	B 2

C504		OPEN	A 2
C505		OPEN	A 2
C506		OPEN	A 2
C509		OPEN	B 2
C510		OPEN	B 1*
C600		OPEN	A 2
C601		OPEN	A 1
C602		OPEN	A 2
C603		OPEN	B 2
C604		OPEN	B 2
C605		OPEN	A 1
C609		OPEN	B 2
C610		OPEN	B 2*
D1	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 9
D2	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 9
D3	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 10
D4	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	G 10
D6	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 8
D7	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	J 8
D8	C 3549-0	DIODE, ZENER 10V 1N5240B T/R	J 8
D9	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	I 9*
D10	C 2851-1	RECTIFIER, 1N4004 SILICON T/R	I 10
D13	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	I 9*
D101	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 9*
D102	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 9*
D103	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 9*
D104	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 9*
D105	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 9*
D106	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D107	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D108	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D109	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D110	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D111	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D112	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 8*
D113	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	O 8*
D114	C10422-1	DIODE, 3A 400V 1N5404 AXIAL	I 6
D115	C10422-1	DIODE, 3A 400V 1N5404 AXIAL	I 5
D116	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	G 8*
D117	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 10*
D118	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	N 10*
D119	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	I 9*
D120	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	I 9*
D121	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 9*
D122	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 9*
D123	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	G 9*
D124	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	G 7*
D125	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	H 7*
D126	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 7
D127	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 8
D128	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	G 7*
D129	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	G 6*
D130	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	M 9*
D131		OPEN	M 8
D201	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 9*
D202	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 9*
D203	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	J 9*
D204	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	J 9*
D205	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	J 9*

131934-4 REV A		PWA, CJ2000C MAIN W/HEATSINKS	MD459P0
D206	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8*
D207	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8*
D208	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 7*
D209	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8*
D210	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8*
D211	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8*
D212	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8*
D213	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 8*
D214	C10422-1	DIODE, 3A 400V 1N5404 AXIAL	I 3
D215	C10422-1	DIODE, 3A 400V 1N5404 AXIAL	I 2
D216	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 8*
D217	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 10*
D218	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	L 10*
D221	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	J 9*
D222	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 9*
D223	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 9*
D224	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 7*
D225	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	F 7*
D226	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 7
D227	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 8
D228	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 7*
D229	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	F 6*
D230	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	K 9
HS1	132522-3	HS ASM, PS2 NON-ISOLATED CH1	L 6
HS2	132523-3	HS ASM, PS2 NON-ISOLATED CH2	L 3
HS3	132520-3	HS ASM, PS2 ISOLATED CH1	G 6
HS4	132521-3	HS ASM, PS2 ISOLATED CH2	G 3
HS5	132107-1	HEATSINK, TOP	
HS6	132107-1	HEATSINK, TOP	
HS7	132107-1	HEATSINK, TOP	
HS8	132107-1	HEATSINK, TOP	
HS9	133515-1	HEATSINK, 14-16 PIN DIP BLK	I 10
HW1	102578-1	SPACER, 6X.125 AL BLK ANOD	D 5
HW2	102578-1	SPACER, 6X.125 AL BLK ANOD	I 6
HW3	102578-1	SPACER, 6X.125 AL BLK ANOD	J 5
HW4	102578-1	SPACER, 6X.125 AL BLK ANOD	N 6
HW5	102578-1	SPACER, 6X.125 AL BLK ANOD	D 2
HW6	102578-1	SPACER, 6X.125 AL BLK ANOD	I 3
HW7	102578-1	SPACER, 6X.125 AL BLK ANOD	J 2
HW8	102578-1	SPACER, 6X.125 AL BLK ANOD	N 3
HW9	A10020-7	6-32 X .625 PCB CAPTIVE STUD	D 5
HW10	A10020-7	6-32 X .625 PCB CAPTIVE STUD	I 6
HW11	A10020-7	6-32 X .625 PCB CAPTIVE STUD	D 2
HW12	A10020-7	6-32 X .625 PCB CAPTIVE STUD	I 3
HW13	A10020-7	6-32 X .625 PCB CAPTIVE STUD	J 5
HW14	A10020-7	6-32 X .625 PCB CAPTIVE STUD	N 6
HW15	A10020-7	6-32 X .625 PCB CAPTIVE STUD	J 2
HW16	A10020-7	6-32 X .625 PCB CAPTIVE STUD	N 3
HW17	132491-1	NUT, 6-32 HEX NYLON LOCK	D 5
HW18	132491-1	NUT, 6-32 HEX NYLON LOCK	I 6
HW19	132491-1	NUT, 6-32 HEX NYLON LOCK	J 5
HW20	132491-1	NUT, 6-32 HEX NYLON LOCK	N 6
HW21	132491-1	NUT, 6-32 HEX NYLON LOCK	D 2
HW22	132491-1	NUT, 6-32 HEX NYLON LOCK	I 3
HW23	132491-1	NUT, 6-32 HEX NYLON LOCK	J 2
HW24	132491-1	NUT, 6-32 HEX NYLON LOCK	N 3
HW29	125242-1	CAP, .750ID X 1" VINYL	H 1
HW30	125242-1	CAP, .750ID X 1" VINYL	H 8
HW33	103180-1	BUMPER, 0.4" TALL BLK W/ADH	F 10*

## 131934-4 REV A

## PWA, CJ2000C MAIN W/HEATSINKS

## MD459P0

HW34	103180-1	BUMPER, 0.4" TALL BLK W/ADH	H 7*
HW35	103180-1	BUMPER, 0.4" TALL BLK W/ADH	D 10*
HW36	103180-1	BUMPER, 0.4" TALL BLK W/ADH	B 9*
HW37	103180-1	BUMPER, 0.4" TALL BLK W/ADH	L 5*
HW38	103180-1	BUMPER, 0.4" TALL BLK W/ADH	G 4*
HW39	103180-1	BUMPER, 0.4" TALL BLK W/ADH	D 1*
HW40	103180-1	BUMPER, 0.4" TALL BLK W/ADH	I 2*
HW41	103180-1	BUMPER, 0.4" TALL BLK W/ADH	O 7*
HW42	103180-1	BUMPER, 0.4" TALL BLK W/ADH	O 9*
HW44	101016-1	LBL, BAR CODE	I 9
HW45	133679-1	INSULATOR; 1.0 X .75 X .01 ADH	K 6/7
HW50	133971-1	FOOT, .12X.5 TAPERED	D 7
HW51	133971-1	FOOT, .12X.5 TAPERED	H 7
HW52	133971-1	FOOT, .12X.5 TAPERED	D 5
HW53	133971-1	FOOT, .12X.5 TAPERED	H 5
HW54	133971-1	FOOT, .12X.5 TAPERED	D 4
HW55	133971-1	FOOT, .12X.5 TAPERED	H 4
HW56	133971-1	FOOT, .12X.5 TAPERED	D 2
HW57	133971-1	FOOT, .12X.5 TAPERED	H 2
HW58	133971-1	FOOT, .12X.5 TAPERED	J 7
HW59	133971-1	FOOT, .12X.5 TAPERED	N 7
HW60	133971-1	FOOT, .12X.5 TAPERED	J 5
HW61	133971-1	FOOT, .12X.5 TAPERED	N 5
HW62	133971-1	FOOT, .12X.5 TAPERED	J 4
HW63	133971-1	FOOT, .12X.5 TAPERED	N 4
HW64	133971-1	FOOT, .12X.5 TAPERED	J 2
HW65	133971-1	FOOT, .12X.5 TAPERED	N 2
HW66	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW67	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW68	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW69	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW70	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW71	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW72	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW73	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW74	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW75	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW76	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW77	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW78	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW79	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW80	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW81	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW82	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW83	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW84	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW85	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW86	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW87	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW88	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW89	A10315-1	6-32 X .56 HEX WSHR HD W/T15	
HW90	133613-1	STIFFENER, CJ2000B MAIN PWA	
HW91	133613-1	STIFFENER, CJ2000B MAIN PWA	
HW92	134415-1	CLIP, CJ2000B NPN TRANSISTOR	
HW93	134415-1	CLIP, CJ2000B NPN TRANSISTOR	
HW94	134415-1	CLIP, CJ2000B NPN TRANSISTOR	
HW95	134415-1	CLIP, CJ2000B NPN TRANSISTOR	
J1		OPEN	O 9
J2	133614-1	PWA, CJ2000 FUSE BOARD	G 9

## 131934-4\_A

131934-4 REV A		PWA, CJ2000C MAIN W/HEATSINKS	MD459P0
J3	132204-2	CABLE, CJ2000 INPUT	M 8
J4	101571-1	HDR, 2 POS .1 CTR MTA SHRD	I 9
J6	132205-1	CABLE, CJ2000 DISPLAY	M 1
K100	126317-1	REL, 30A 24V SPST PCB W/FASTON	G 9
K200	126317-1	REL, 30A 24V SPST PCB W/FASTON	E 9
L100	C 3510-2	CHOKER, 10% AXIAL 470 UH TR	N 7
L101	C 3510-2	CHOKER, 10% AXIAL 470 UH TR	I 7
L102	102470-1	INDUCTOR, 2.75UH 11A RADIAL	H 8
L200	C 3510-2	CHOKER, 10% AXIAL 470 UH TR	J 1
L201	C 3510-2	CHOKER, 10% AXIAL 470 UH TR	D 1
L202	102470-1	INDUCTOR, 2.75UH 11A RADIAL	I 1
P1		OPEN	M 10
P2		OPEN	K 10
P3		OPEN	L 10
P4		OPEN	L 10
P5		OPEN	M 8
P6		OPEN	K 1
P7		OPEN	N 1
PWB1	127450-6	PWB, CE/CH/CL1&2 MAIN/INPUT	
Q1	102479-1	PWR NPN DARLINGTON 100V 2A	H 10
Q2	102479-1	PWR NPN DARLINGTON 100V 2A	I 10
Q3	102479-1	PWR NPN DARLINGTON 100V 2A	I 10
Q100	C 7448-1	MMBT3904 CHIP NPN	M 9*
Q101	C 7448-1	MMBT3904 CHIP NPN	M 9*
Q102	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	N 9*
Q103	102483-1	PNP 300V 500MA SOT-23	L 9*
Q104	C 9252-5	2N3904 40V NPN TRANSISTOR T/A	I 6
Q105	103193-1	SOT-223 PNP 300V 500MA 50MHZ	M 7*
Q107	103192-1	SOT-223 NPN 300V 500MA 50MHZ	M 7*
Q108	102481-1	NPN 25V LOW NOISE SOT-23	N 8*
Q109	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	N 8*
Q110	103192-1	SOT-223 NPN 300V 500MA 50MHZ	N 7*
Q111	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	N 7*
Q120	103193-1	SOT-223 PNP 300V 500MA 50MHZ	I 7*
Q129	C 7448-1	MMBT3904 CHIP NPN	G 9*
Q131		OPEN	F 9
Q132		OPEN	F 9
Q133	102480-1	FET, N-CH 25V 50MA SOT-23	M 9*
Q200	C 7448-1	MMBT3904 CHIP NPN	K 9*
Q201	C 7448-1	MMBT3904 CHIP NPN	K 9*
Q202	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	L 9*
Q203	102483-1	PNP 300V 500MA SOT-23	J 9*
Q204	C 9252-5	2N3904 40V NPN TRANSISTOR T/A	I 3
Q205	103193-1	SOT-223 PNP 300V 500MA 50MHZ	J 7*
Q207	103192-1	SOT-223 NPN 300V 500MA 50MHZ	K 7*
Q208	102481-1	NPN 25V LOW NOISE SOT-23	K 7*
Q209	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	K 8*
Q210	103192-1	SOT-223 NPN 300V 500MA 50MHZ	J 2*
Q211	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	J 2*
Q220	103193-1	SOT-223 PNP 300V 500MA 50MHZ	D 2*
Q229	C 7448-1	MMBT3904 CHIP NPN	E 9*
Q231		OPEN	E 9
Q232		OPEN	F 8
Q233	102480-1	FET, N-CH 25V 50MA SOT-23	J 9*
R1	127229-1	RES, 1100 OHM 5W 5% THICK FILM	J 8
R2	127230-1	RES, 2200 OHM 3W 5% THICK FILM	J 8
R3	A11371-3341	330 KOHM .1W 5% 0805 T/R	I 8*
R4	A11371-3313	330 OHM .25W 5% 1210 T/R	I 1*
R5	A11368-69811	6.98KOHM .1W 1% 0805 T/R	D 8*

R6	A11368-93111	9.31K .1W 1% SMD 0805 T/R	D 8*
R8	A11371-1022	1. KOHM .125W 5% CHIP RES T/R	N 10*
R9	A11368-10021	10K 1/10W 1% SMD 0805 T/R	H 9*
R10	A11368-20023	20.0KOHM .25W 1% 1210 T/R	H 9*
R11	A11371-3341	330 KOHM .1W 5% 0805 T/R	I 9*
R12	A11368-68121	68.1KOHM 0.1W 1% CHIP 0805	I 9*
R13	A11371-1011	100 OHM .1W 5% 0805 T/R	I 9*
R14	A11371-R221	.22OHM .1W 5% O8O5 SMT	H 9*
R15	A11371-R221	.22OHM .1W 5% O8O5 SMT	I 9*
R16	A11371-3923	3.9K .25W 5% 1210 T/R	N 9*
R17	A11368-82511	8.25KOHM .1W 1% CHIP 0805	F 10*
R18	A11368-71511	7.15K 1/10W 1% SMD 0805 T/R	D 8*
R19	A11371-3313	330 OHM .25W 5% 1210 T/R	I 1*
R20	A11368-57621	57.6KOHM 0.1W 1% 0805 T/R	I 9*
R21	A11368-12121	12.1KOHM .1W 1% 0805 T/R	J 9*
R22	A11368-39231	392 KOHM .1W 1% 0805 T/R	I 9*
R23	A11368-39231	392 KOHM .1W 1% 0805 T/R	I 9*
R24	A11368-57621	57.6KOHM 0.1W 1% 0805 T/R	I 9*
R25	A11368-10031	100.KOHM .1W 1% CHIP 0805	N 9*
R26	A11371-3341	330 KOHM .1W 5% 0805 T/R	A 9*
R27	A11368-20021	20.KOHM .1W 1% CHIP 0805	L 9*
R28	A11371-7511	750 OHM .1W 5% 0805 T/R	L 9*
R29		OPEN	I 9*
R30	A11368-10031	100.KOHM .1W 1% CHIP 0805	I 8*
R31	A11368-10031	100.KOHM .1W 1% CHIP 0805	J 8*
R33	A11371-R221	.22OHM .1W 5% O8O5 SMT	I 9*
R101	A11368-10011	1.KOHM .1W 1% CHIP 0805	M 10*
R102	A11368-39231	392 KOHM .1W 1% 0805 T/R	N 9*
R103	A11368-49901	499 OHM .1W 1% 0805 T/R	N 9*
R104	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 9*
R105	A11371-6814	680 OHM .5W 5% 2010 T/R	J 1*
R106	A11368-10011	1.KOHM .1W 1% CHIP 0805	M 9*
R107	A11368-10021	10K 1/10W 1% SMD 0805 T/R	L 10*
R108	A11368-10021	10K 1/10W 1% SMD 0805 T/R	L 10*
R109	A11368-19122	19.1 KOHM .125W 1% CHIP RES	M 9*
R110	A11368-10011	1.KOHM .1W 1% CHIP 0805	L 9*
R111	A11368-10021	10K 1/10W 1% SMD 0805 T/R	L 9*
R112	A10265-19121	19.1KOHM .25W 1% MF T/R	L 9
R113	A11368-51111	5.11KOHM .1W 1% 0805 T/R	L 10*
R114	A11368-82511	8.25KOHM .1W 1% CHIP 0805	L 10*
R115	A11368-68121	68.1KOHM 0.1W 1% CHIP 0805	L 10*
R116	A11368-22601	226 OHM 0.1W 1% 0805 T/R	M 9*
R117	A11368-15831	158KOHM .1W 1% 0805 T/R	M 9*
R118	A11368-10221	10.2K 0.10W 1% CHIP 0805	M 10
R119	A11371-3333	33 KOHM .25W 5% 1210 T/R	M 9*
R120	A11368-90921	90.9K, 0.10W 1% MF 0805	M 9*
R121	A11368-10021	10K 1/10W 1% SMD 0805 T/R	M 10
R122	A11368-15831	158KOHM .1W 1% 0805 T/R	N 9*
R123	A11368-10031	100.KOHM .1W 1% CHIP 0805	M 9*
R124	A11368-15831	158KOHM .1W 1% 0805 T/R	M 9*
R125	A11368-10031	100.KOHM .1W 1% CHIP 0805	N 9*
R126	A11368-49921	49.9KOHM .1W 1% CHIP 0805	M 9*
R127	A11371-6821	6.8KOHM .1W 5% CHIP 0805	N 9*
R128	A11371-6814	680 OHM .5W 5% 2010 T/R	J 1*
R129	A11371-8211	820 OHM .1W 5% 0805 T/R	N 7*
R130		OPEN	O 8*
R131		OPEN	O 8*
R132	A11371-2223	2.2K 0.25W 5% 1210 T/R	H 6*
R133	A11371-7511	750 OHM .1W 5% 0805 T/R	H 6*

R134	C10613-5	1 KOHM TOP ADJUST TRIMMER T/R	M 7
R135	A11371-3923	3.9K .25W 5% 1210 T/R	M 7*
R136	A11371-8201	82 OHM .1W 5% 0805 T/R	M 7*
R137	A11368-49902	499 OHM .125W 1% 1206 T/R	N 8*
R138	A11371-1213	120 OHM .25W 5% 1210 T/R	N 8*
R139	A11368-10703	107 OHM 0.25W 1% 1210 T/R	N 8*
R140	A11371-3333	33 KOHM .25W 5% 1210 T/R	N 8*
R141	A11371-8211	820 OHM .1W 5% 0805 T/R	O 8*
R142	A11371-4724	4.7 KOHM 0.5W 5% 1210 T/R	O 8*
R143	A11371-3333	33 KOHM .25W 5% 1210 T/R	N 8*
R144	A11371-1213	120 OHM .25W 5% 1210 T/R	N 8*
R145	A11368-75R03	75 OHM .25W 1% 1210 T/R	N 8*
R146	A11371-1331	13KOHM .1W 5% 0805 T/R	N 7*
R147	A11371-1011	100 OHM .1W 5% 0805 T/R	N 7*
R148	A11371-1811	180 OHM .1W 5% 0805 T/R	M 7*
R149	A11368-60432	604 KOHM .125W 1% MF CHIP	N 9*
R150	A11371-5R63	5.6 OHM .25W 5% 1210 T/R	N 6*
R151	A11368-20021	20.KOHM .1W 1% CHIP 0805	N 9*
R152	103199-1	0.4 OHM 1W 5% 2512 T/R	K 6*
R153	103199-1	0.4 OHM 1W 5% 2512 T/R	K 5*
R154	103199-1	0.4 OHM 1W 5% 2512 T/R	L 6*
R155	103199-1	0.4 OHM 1W 5% 2512 T/R	M 5*
R156	103199-1	0.4 OHM 1W 5% 2512 T/R	M 7*
R157	103199-1	0.4 OHM 1W 5% 2512 T/R	N 6*
R158	A10266-2R74	2.7 OHM 2W 5% CF T/R	I 8
R159	103199-1	0.4 OHM 1W 5% 2512 T/R	D 6*
R160	A11371-1501	15 OHM .1W 5% 0805 T/R	I 7*
R161	A11371-1331	13KOHM .1W 5% 0805 T/R	H 7*
R162	A11371-4701	RES, 47 OHM .1W 5% CHIP 0805	H 7*
R163	A11371-1811	180 OHM .1W 5% 0805 T/R	I 7*
R164	A11371-0R01	0 OHM 0.1W CHIP 0805	M 8*
R165	A11371-5R63	5.6 OHM .25W 5% 1210 T/R	I 5*
R166	A11371-0R01	0 OHM 0.1W CHIP 0805	L 8*
R167	103199-1	0.4 OHM 1W 5% 2512 T/R	E 6*
R168	103199-1	0.4 OHM 1W 5% 2512 T/R	F 6*
R169	103199-1	0.4 OHM 1W 5% 2512 T/R	F 6*
R170	103199-1	0.4 OHM 1W 5% 2512 T/R	G 6*
R171	103199-1	0.4 OHM 1W 5% 2512 T/R	G 7*
R172	103199-1	0.4 OHM 1W 5% 2512 T/R	H 6*
R174	A11368-60432	604 KOHM .125W 1% MF CHIP	G 8*
R175	A11368-51111	5.11KOHM .1W 1% 0805 T/R	G 8*
R176	A11368-10021	10K 1/10W 1% SMD 0805 T/R	G 8*
R177	A11368-10021	10K 1/10W 1% SMD 0805 T/R	H 8*
R178	A11368-90921	90.9K, 0.10W 1% MF 0805	N 9*
R179	A11368-10031	100.KOHM .1W 1% CHIP 0805	F 7*
R180	A11368-39231	392 KOHM .1W 1% 0805 T/R	G 8*
R181	A11371-6814	680 OHM .5W 5% 2010 T/R	J 1*
R182	A11368-10021	10K 1/10W 1% SMD 0805 T/R	F 8*
R183	A11368-10031	100.KOHM .1W 1% CHIP 0805	F 8*
R184		OPEN	F 9*
R185		OPEN	G 8*
R186	A11368-10031	100.KOHM .1W 1% CHIP 0805	N 10*
R187	A11368-15831	158KOHM .1W 1% 0805 T/R	M 10*
R188	A11368-15831	158KOHM .1W 1% 0805 T/R	N 10*
R189	A11368-10031	100.KOHM .1W 1% CHIP 0805	M 10*
R190	A11368-57621	57.6KOHM 0.1W 1% 0805 T/R	N 6*
R191	A11368-22601	226 OHM 0.1W 1% 0805 T/R	N 6*
R192	A11368-60432	604 KOHM .125W 1% MF CHIP	L 9*
R193	A11368-10021	10K 1/10W 1% SMD 0805 T/R	N 9*

R194	A11371-8201	82 OHM .1W 5% 0805 T/R	M 7*
R195	A11371-8211	820 OHM .1W 5% 0805 T/R	M 7*
R196	A11368-10021	10K 1/10W 1% SMD 0805 T/R	M 9*
R197	A11368-61911	6.19KOHM .1W 1% 0805 T/R	M 10
R199	A11371-0R01	0 OHM 0.1W CHIP 0805	N 8*
R201	A11368-10011	1.KOHM .1W 1% CHIP 0805	K 10*
R202	A11368-39231	392 KOHM .1W 1% 0805 T/R	L 9*
R203	A11368-49901	499 OHM .1W 1% 0805 T/R	L 9*
R204	A11368-10021	10K 1/10W 1% SMD 0805 T/R	L 9*
R205	A11371-6814	680 OHM .5W 5% 2010 T/R	M 1*
R206	A11368-10011	1.KOHM .1W 1% CHIP 0805	J 9*
R209	A11368-19122	19.1 KOHM .125W 1% CHIP RES	K 9*
R210	A11368-10011	1.KOHM .1W 1% CHIP 0805	J 9*
R211	A11368-10021	10K 1/10W 1% SMD 0805 T/R	J 9*
R212	A10265-19121	19.1KOHM .25W 1% MF T/R	J 9
R213	A11368-51111	5.11KOHM .1W 1% 0805 T/R	J 10*
R214	A11368-82511	8.25KOHM .1W 1% CHIP 0805	J 10*
R215	A11368-68121	68.1KOHM 0.1W 1% CHIP 0805	J 10*
R216	A11368-22601	226 OHM 0.1W 1% 0805 T/R	K 9*
R217	A11368-15831	158KOHM .1W 1% 0805 T/R	J 9*
R218	A11368-10221	10.2K 0.10W 1% CHIP 0805	K 10
R219	A11371-3333	33 KOHM .25W 5% 1210 T/R	J 9*
R220	A11368-90921	90.9K, 0.10W 1% MF 0805	K 9*
R221	A11368-10021	10K 1/10W 1% SMD 0805 T/R	K 10
R222	A11368-15831	158KOHM .1W 1% 0805 T/R	K 9*
R223	A11368-10031	100.KOHM .1W 1% CHIP 0805	K 9*
R224	A11368-15831	158KOHM .1W 1% 0805 T/R	K 9*
R225	A11368-10031	100.KOHM .1W 1% CHIP 0805	L 9*
R226	A11368-49921	49.9KOHM .1W 1% CHIP 0805	K 9*
R227	A11371-6821	6.8KOHM .1W 5% CHIP 0805	K 9*
R228	A11371-6814	680 OHM .5W 5% 2010 T/R	M 1*
R229	A11371-8211	820 OHM .1W 5% 0805 T/R	K 7*
R230		OPEN	L 7*
R231		OPEN	L 7*
R232	A11371-2223	2.2K 0.25W 5% 1210 T/R	H 3*
R233	A11371-7511	750 OHM .1W 5% 0805 T/R	H 3*
R234	C10613-5	1 KOHM TOP ADJUST TRIMMER T/R	J 7
R235	A11371-3923	3.9K .25W 5% 1210 T/R	J 7*
R236	A11371-8201	82 OHM .1W 5% 0805 T/R	J 7*
R237	A11368-49902	499 OHM .125W 1% 1206 T/R	K 8*
R238	A11371-1213	120 OHM .25W 5% 1210 T/R	K 7*
R239	A11368-10703	107 OHM 0.25W 1% 1210 T/R	K 8*
R240	A11371-3333	33 KOHM .25W 5% 1210 T/R	K 7*
R241	A11371-8211	820 OHM .1W 5% 0805 T/R	L 8*
R242	A11371-4724	4.7 KOHM 0.5W 5% 1210 T/R	L 7*
R243	A11371-3333	33 KOHM .25W 5% 1210 T/R	K 8*
R244	A11371-1213	120 OHM .25W 5% 1210 T/R	K 8*
R245	A11368-75R03	75 OHM .25W 1% 1210 T/R	K 8*
R246	A11371-1331	13KOHM .1W 5% 0805 T/R	J 2*
R247	A11371-1011	100 OHM .1W 5% 0805 T/R	J 2*
R248	A11371-1811	180 OHM .1W 5% 0805 T/R	K 2*
R249	A11368-60432	604 KOHM .125W 1% MF CHIP	K 9*
R250	A11371-5R63	5.6 OHM .25W 5% 1210 T/R	J 2*
R251	A11368-20021	20.KOHM .1W 1% CHIP 0805	K 9*
R252	103199-1	0.4 OHM 1W 5% 2512 T/R	K 4*
R253	103199-1	0.4 OHM 1W 5% 2512 T/R	K 3*
R254	103199-1	0.4 OHM 1W 5% 2512 T/R	L 4*
R255	103199-1	0.4 OHM 1W 5% 2512 T/R	M 3*
R256	103199-1	0.4 OHM 1W 5% 2512 T/R	M 4*

R257	103199-1	0.4 OHM 1W 5% 2512 T/R	N 3*
R259	103199-1	0.4 OHM 1W 5% 2512 T/R	D 3*
R260	A11371-1501	15 OHM .1W 5% 0805 T/R	D 1*
R261	A11371-1331	13KOHM .1W 5% 0805 T/R	E 2*
R262	A11371-4701	RES, 47 OHM .1W 5% CHIP 0805	E 2*
R263	A11371-1811	180 OHM .1W 5% 0805 T/R	E 2*
R265	A11371-5R63	5.6 OHM .25W 5% 1210 T/R	E 2*
R267	103199-1	0.4 OHM 1W 5% 2512 T/R	E 4*
R268	103199-1	0.4 OHM 1W 5% 2512 T/R	F 3*
R269	103199-1	0.4 OHM 1W 5% 2512 T/R	F 4*
R270	103199-1	0.4 OHM 1W 5% 2512 T/R	G 3*
R271	103199-1	0.4 OHM 1W 5% 2512 T/R	H 4*
R272	103199-1	0.4 OHM 1W 5% 2512 T/R	H 3*
R274	A11368-60432	604 KOHM .125W 1% MF CHIP	E 8*
R275	A11368-51111	5.11KOHM .1W 1% 0805 T/R	E 8*
R276	A11368-10021	10K 1/10W 1% SMD 0805 T/R	E 8*
R277	A11368-10021	10K 1/10W 1% SMD 0805 T/R	E 8*
R278	A11368-90921	90.9K, 0.10W 1% MF 0805	L 9*
R279	A11368-10031	100.KOHM .1W 1% CHIP 0805	E 7*
R280	A11368-39231	392 KOHM .1W 1% 0805 T/R	E 8*
R281	A11371-6814	680 OHM .5W 5% 2010 T/R	M 1*
R282	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 8*
R283	A11368-10031	100.KOHM .1W 1% CHIP 0805	E 8*
R284		OPEN	F 9*
R285		OPEN	F 8*
R286	A11368-10031	100.KOHM .1W 1% CHIP 0805	L 10*
R287	A11368-15831	158KOHM .1W 1% 0805 T/R	K 10*
R288	A11368-15831	158KOHM .1W 1% 0805 T/R	K 10*
R289	A11368-10031	100.KOHM .1W 1% CHIP 0805	K 10*
R290	A11368-57621	57.6KOHM 0.1W 1% 0805 T/R	N 3*
R291	A11368-22601	226 OHM 0.1W 1% 0805 T/R	N 3*
R292	A11368-60432	604 KOHM .125W 1% MF CHIP	J 9*
R293	A11368-10021	10K 1/10W 1% SMD 0805 T/R	K 9*
R294	A11371-8201	82 OHM .1W 5% 0805 T/R	J 7*
R295	A11371-8211	820 OHM .1W 5% 0805 T/R	J 7*
R296	A11368-10021	10K 1/10W 1% SMD 0805 T/R	K 9*
R297	A11368-61911	6.19KOHM .1W 1% 0805 T/R	K 10
R299	A11371-0R01	0 OHM 0.1W CHIP 0805	K 8*
R300	103199-1	0.4 OHM 1W 5% 2512 T/R	D 6*
R301	103199-1	0.4 OHM 1W 5% 2512 T/R	J 6*
R302	103199-1	0.4 OHM 1W 5% 2512 T/R	K 5*
R303	103199-1	0.4 OHM 1W 5% 2512 T/R	L 6*
R304	103199-1	0.4 OHM 1W 5% 2512 T/R	M 5*
R305	103199-1	0.4 OHM 1W 5% 2512 T/R	M 7*
R306	103199-1	0.4 OHM 1W 5% 2512 T/R	N 6*
R307	103199-1	0.4 OHM 1W 5% 2512 T/R	E 6*
R308	103199-1	0.4 OHM 1W 5% 2512 T/R	F 6*
R309	103199-1	0.4 OHM 1W 5% 2512 T/R	G 6*
R310	103199-1	0.4 OHM 1W 5% 2512 T/R	G 6*
R311	103199-1	0.4 OHM 1W 5% 2512 T/R	G 7*
R312	103199-1	0.4 OHM 1W 5% 2512 T/R	I 6*
R313	A11368-10021	10K 1/10W 1% SMD 0805 T/R	G 7*
R314	A11371-3341	330 KOHM .1W 5% 0805 T/R	G 7*
R315	A11368-51111	5.11KOHM .1W 1% 0805 T/R	H 7*
R316	A11368-10011	1.KOHM .1W 1% CHIP 0805	M 10*
R317	A11371-3934	39K 0.5W 5% 2010 SMT T/R	N 8
R318	A11371-3934	39K 0.5W 5% 2010 SMT T/R	N 8
R319		OPEN	M 10*
R321		OPEN	O 9

## 131934-4 REV A

## PWA, CJ2000C MAIN W/HEATSINKS

## MD459P0

R322	A11371-1013	100 OHM .25W 5% 1210 SMT T/R	L 9
R323	A11371-0R01	0 OHM 0.1W CHIP 0805	G 8
R400	103199-1	0.4 OHM 1W 5% 2512 T/R	D 3*
R401	103199-1	0.4 OHM 1W 5% 2512 T/R	J 4*
R402	103199-1	0.4 OHM 1W 5% 2512 T/R	K 3*
R403	103199-1	0.4 OHM 1W 5% 2512 T/R	L 4*
R404	103199-1	0.4 OHM 1W 5% 2512 T/R	M 3*
R405	103199-1	0.4 OHM 1W 5% 2512 T/R	M 4*
R406	103199-1	0.4 OHM 1W 5% 2512 T/R	N 3*
R407	103199-1	0.4 OHM 1W 5% 2512 T/R	E 4*
R408	103199-1	0.4 OHM 1W 5% 2512 T/R	F 3*
R409	103199-1	0.4 OHM 1W 5% 2512 T/R	G 4*
R410	103199-1	0.4 OHM 1W 5% 2512 T/R	G 3*
R411	103199-1	0.4 OHM 1W 5% 2512 T/R	H 4*
R412	103199-1	0.4 OHM 1W 5% 2512 T/R	I 3*
R413	A11368-10021	10K 1/10W 1% SMD 0805 T/R	E 7*
R414	A11371-3341	330 KOHM .1W 5% 0805 T/R	E 7*
R415	A11368-51111	5.11KOHM .1W 1% 0805 T/R	E 7*
R416	A11368-10011	1.KOHM .1W 1% CHIP 0805	K 10*
R417	A11371-3934	39K 0.5W 5% 2010 SMT T/R	K 7
R418	A11371-3934	39K 0.5W 5% 2010 SMT T/R	K 8
R419		OPEN	K 10*
R420	A11371-5R65	5.6 OHM 1W 5% 2512 T/R	H 1*
R421	A11371-5R65	5.6 OHM 1W 5% 2512 T/R	H 1*
R422	A11371-1013	100 OHM .25W 5% 1210 SMT T/R	J 9
R423	A11371-0R01	0 OHM 0.1W CHIP 0805	F 8
R500		OPEN	A 3
R501		OPEN	A 2
R502		OPEN	B 2
R503		OPEN	B 2
R504		OPEN	A 2
R506		OPEN	A 2
R508		OPEN	C 2
R600		OPEN	A 1
R601		OPEN	A 1
R602		OPEN	A 2
R603		OPEN	A 2
R604		OPEN	A 1
R605		OPEN	C 3
R606		OPEN	B 2
R607		OPEN	A 1
R608		OPEN	C 1
R609		OPEN	C 3
R610		OPEN	B 1
TP38	C 9896-9	TEST POINT PCB .1"CTR LOOP T/R	K 1
TP39	C 9896-9	TEST POINT PCB .1"CTR LOOP T/R	N 7
WP1	A11378-A050U	WIRE, 16 RED FAST X 5 X TERM	A 10
WP2	103331-N050R	WIRE, 16 BLK/WHT TAB X 5 XTERM	A 9
WP3	A11379-C050U	WIRE, 16 BLUE FAST X 5 X TERM	A 9
WP4	101031-1	.250 FASTON, AUTO INSERTABLE	D 7
WP5	101031-1	.250 FASTON, AUTO INSERTABLE	D 4
WP6	C 9896-9	TEST POINT PCB .1"CTR LOOP T/R	J 8
WP7	101031-1	.250 FASTON, AUTO INSERTABLE	D 8
WP8		OPEN	L 8
WP9		OPEN	O 8
WP10	C 9896-9	TEST POINT PCB .1"CTR LOOP T/R	G 9
WP11		OPEN	M 8
WP12	C 9896-9	TEST POINT PCB .1"CTR LOOP T/R	G 9
U1	C 5095-2	MC7815CT +15V. REG	H 10

## 131934-4\_A

131934-4 REV A		PWA, CJ2000C MAIN W/HEATSINKS	MD459P0
U1X	C 9918-1	TO220 VERT CLIP-ON HEATSINK	H 10
U2	C 5096-0	MC7915CT -15V. REG	H 9
U2X	C 9918-1	TO220 VERT CLIP-ON HEATSINK	H 9
U3	102486-1	OPTO BJT NPN SOIC-8 CTR=100%	N 10
U4	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	I 9
U5	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	N 9
U100	102723-2	OPTOCELL ON<.5KOHM OFF>10M5SEC	M 9
U101	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	M 10
U102	C 9038-8	COMPARATOR, QUAD LM339D SO-14	N 9
U104	C 9038-8	COMPARATOR, QUAD LM339D SO-14	G 7
U105	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	F 7
U106	127683-1	SENSOR, CE THERMAL	N 6
U200	102723-2	OPTOCELL ON<.5KOHM OFF>10M5SEC	K 9
U201	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	J 10
U202	C 9038-8	COMPARATOR, QUAD LM339D SO-14	K 9
U204	C 9038-8	COMPARATOR, QUAD LM339D SO-14	E 7
U205	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	E 7
U206	127683-1	SENSOR, CE THERMAL	N 3