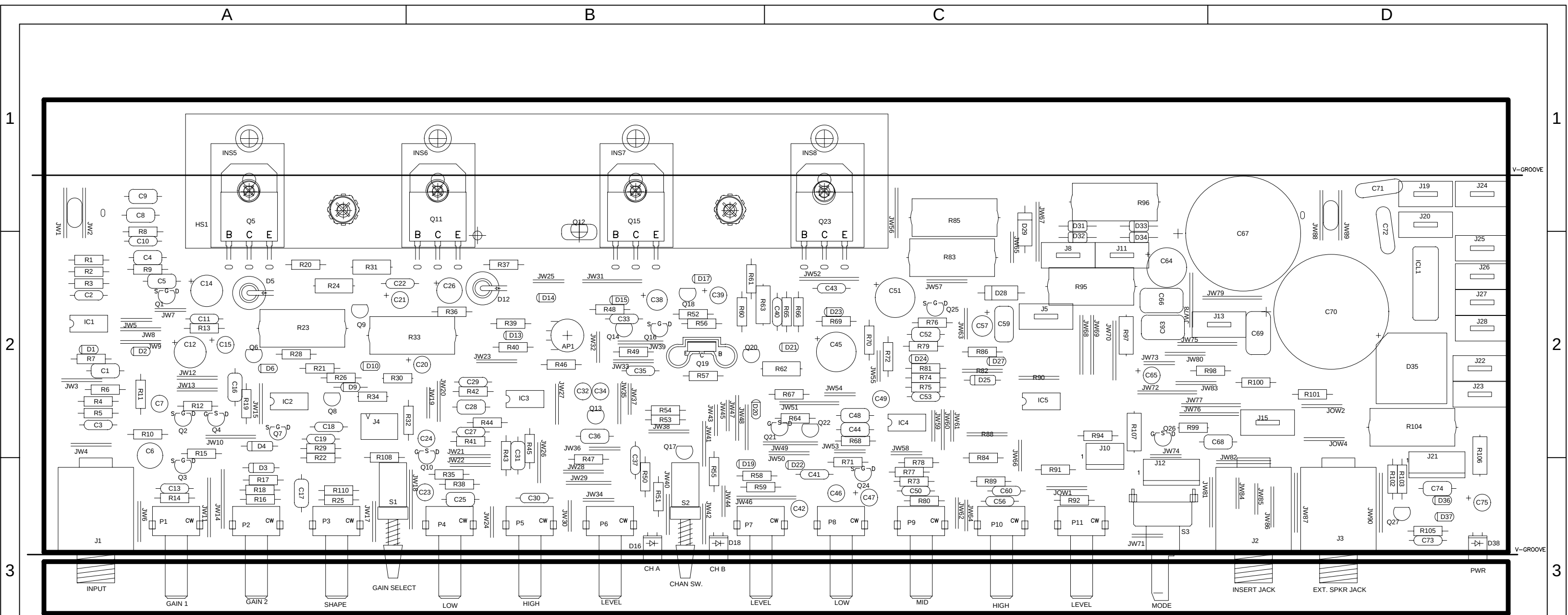




FOR ASSEMBLY P/N: 07-279-02
USE SCHEMATIC # 07S279-XX

NOTES:
1. GOOP IN ACCORDANCE WITH PRODUCTION S.O.P.

CAUTION:
THIS ASSEMBLY DRAWING IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.
TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
DO NOT PERFORM ANY SERVICING BEYOND THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

A	12/22/00	INITIAL ISSUE				
REV	Date	DESCRIPTION	Ecr(s)/Ecn(s)	Chgd By	Appvd by	Date
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.						
Signatures:		Date:	 11880 Borman Drive, St. Louis, MO 63146			
Drawn: WFB		11/1/00	First Used On: GFX212Ta			
Checked:						
Released:						
Plot Date: Wed Dec 27, 2000	Drawing Size:	B	Drawing Title: PWA -- GUITAR AMP			
Plot Time: 15:15:38	Drawing Type:	ASSEMBLY				
Tolerance:		Class Code: NONE	Drawing Number: 07-279-XX			
		Sheet 1 of 1				

A	11/10/00	INITIAL ISSUE				
Rev.	Date	DESC.	ECR(s)/ECN(s)	Chgd by	Appvd by	DATE
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO						
ST. LOUIS MUSIC, INC.						
			SLM Electronics			
			11880 Borman Drive, St. Louis, MO 63146			
Signatures:		Date:				
Drawn: WFB		11/10/00				
Checked:			First Used On:	GFX65Ta		
Released:						
Tolerance:	Drawing Size:	A	Drawing Title:	PWA -- GUITAR AMP		
	Drawing Type:	PL				
	Class Code:		Drawing No.:	07-279-PL		
	Scale:	N/A				

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
1	1	PWB1	06A279-01	PWB GFX65c PC BOARD	
2	2	C71	10-332-01	.0033 uF [20% TOL] UL/VDE DISK	
		C72			
3	2	C11	10A102-11	.001 uF 100V 10% X7R	
		C33			
4	5	C13	10A103-11	.01 uF 100V 10% X7R	
		C19			
		C37			
		C41			
		C73			
5	3	C5	10A104-01	.1 uF 50V 10% X7R	
		C36			
		C48			
6	1	C56	10A152-11	.0015 uF 100V 10% X7R	
7	2	C10	10A153-01	.015 uF 50V 10% X7R	
		C27			
8	4	C22	10A221-11	220 pF 100V 10% NPO	
		C35			
		C40			
		C43			
9	4	C4	10A224-01	.22 uF 50V 10% X7R	
		C9			
		C17			
		C68			
10	2	C2	10A332-01	.0033 uF 100V 10% X7R	
		C54			
11	1	C30	10A472-11	.0047 uF 100V 10% X7R	
12	8	C8	10A473-11	.047 uF 100V 10% X7R	
		C16			
		C28			
		C31			
		C44			
		C52			
		C55			
		C74			
13	2	C1	10A474-01	.47 uF 50V 20% X7R	
		C25			
14	3	C29	10A560-21	56 pF 200V 5% NPO	
		C53			
		C58			
15	1	C18	10A562-01	.0056 uF 100V 10% X7R	
16	1	C3	10A682-01	.0068 uF 100V 10% X7R	
17	2	C66	10R104-03	.1 uF 100V 10% RAD POLY	
		C69			
18	1	C59	10R473-03	.047 uF 100V 10% RAD POLY	
19	2	C67	12-478-53	4700 uF 50V 20% EL	
		C70			
20	6	C20	12R105-50	1 uF 50V 20% EL	
		C21			

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		C39			
		C47			
		C65			
		C75			
21	3	C7	12R105-51	1 uF 50V 20% EL NP	
		C23			
		C49			
22	2	C38	12R106-35	10 uF 35V 20% EL	
		C57			
23	1	C6	12R106-36	10 uF 35V 20% EL NP	
24	2	C12	12R107-32	100 uF 35V 20% EL	
		C14			
25	2	C15	12R225-50	2.2 uF 50V 20% EL	
		C61			
26	5	C24	12R225-51	2.2 uF 50V 20% EL NP	
		C32			
		C34			
		C42			
		C46			
27	2	C45	12R227-02	220 uF 50V 20% EL	
		C51			
28	1	C26	12R476-35	47 uF 35V 20% EL	
29	1	J18	17-105-03	.1 ST POL LOCK MLSS100-3 HEADER	
30	1	J21	17-105-06	.1 ST POL LOCK MTSS100-6 HEADER	
31	13	J5	17-836-01	.250 PC TAB STBL LOC 6021-6	
		J6			
		J13			
		J15			
		J19			
		J20			
		J22			
		J23			
		J24			
		J25			
		J26			
		J27			
32	3	J28			
		J7	17-894-01	.187 PC TAB STBL LOC 6024-6	
		J9			
		J16			
33	1	D35	21-206-01	KBPC-602 BRDG RECT 200V PIV 3A AT25C	
34	2	D28	21-553-01	1N5353B 16V ZEN DIODE	
		D29			
35	1	D18	21-572-01	5MM SQR R.A. GRN LED	
36	2	D16	21-573-01	5MM SQR R.A. RED LED	
		D38			
37	2	D5	21-752-01	GI752 DIODE (BULK) 6A	
		D12			
38	3	D3	21A146-01	3.3V .4W ZENER 28 ohm Zz	
		D4			

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
39	20	D25	21A914-01	75V PIV 10mA/1V .5W	
		D1			
		D2			
		D6			
		D9			
		D10			
		D13			
		D14			
		D15			
		D17			
		D19			
		D20			
		D21			
		D22			
		D23			
		D24			
		D26			
		D27			
		D30			
		D36			
		D37			
40	4	SCRW1	30-440-06	4-40 5/16 PPH TAPTITE	
		SCRW2			
		SCRW3			
		SCRW4			
41	2	SCRW5	30-650-53	6-32 X 1/2 PPH MS	
42	2	SCRW6	30-700-01	6-32 HEX KEPNUT ASSY	
		NUT1			
43	1	NUT2	33-004-01	HEATSINK CLIP	
		HS2			
44	1	HS1	33-241-01	GX-65 HEATSINK BRACKET	
45	4	INS1	35-043-01	NYLON BUSHING NATURAL	
		INS2			
		INS3			
		INS4			
46	4	INS5	35-575-02	BERQUIST K10-104 INS	
		INS6			
		INS7			
		INS8			
47	5	IC1	37-072-01	TLO-72CP DUAL OP-AMP	
		IC2			
		IC3			
		IC4			
48	2	IC5	39-116-01	T/S JACK HORIZ	INPUT
		J1			
49	1	J3	39-117-01	TRS JACK HORIZ	EXT. SPKR JACK
		J2			
50	5	P1	70-103-61	10K LINEAR [10% TOL]	INSERT JACK
		P2			
		P3			
					GAIN 1
					GAIN 2
					SHAPE

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		P5			HIGH
		P10			
51	4	P4	70-103-68	10K AUDIO [10% TOL]	LOW
		P6			LEVEL
		P8			LOW
		P11			LEVEL
52	1	P7	70-104-63	100K REVERSE AUDIO [10% TOL]	
53	1	P9	70-501-62	500 AUDIO [10% TOL]	MID
54	1	AP1	71-501-02	500 OHM TRIMPOT HORZ.	
55	1	ICL1	73-501-03	15 OHM 3A MIN. IC	
56	97	JOW1	76-000-05	22 GA TINNED COPPER	
		JOW2			
		JOW3			
		JOW4			
		JOW5			
		JW1			
		JW2			
		JW3			
		JW4			
		JW5			
		JW6			
		JW7			
		JW8			
		JW9			
		JW10			
		JW11			
		JW12			
		JW13			
		JW14			
		JW15			
		JW16			
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		JW22			
		JW23			
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		JW26			
		JW27			
		JW28			
		JW29			
		JW30			
		JW31			
		JW32			
		JW33			
		JW34			
		JW35			

ASSEMBLY PART # 07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		JW36			
		JW37			
		JW38			
		JW39			
		JW40			
		JW41			
		JW42			
		JW43			
		JW44			
		JW45			
		JW46			
		JW47			
		JW48			
		JW49			
		JW50			
		JW51			
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		JW71			
		JW72			
		JW73			
		JW74			
		JW75			
		JW76			
		JW77			
		JW78			
		JW79			
		JW80			
		JW81			
		JW82			
		JW83			
		JW84			
		JW85			

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		JW86			
		JW87			
		JW88			
		JW89			
		JW90			
		R73			
		R89			
57	2	R20	76-047-01	4.7 OHM .25W 5% RESISTOR	
		R37			
58	1	R101	76-101-01	100 OHM .25W 5% RESISTOR	
59	2	R38	76-102-01	1K OHM .25W 5% RESISTOR	
		R46			
60	10	R10	76-103-01	10K OHM .25W 5% RESISTOR	
		R12			
		R30			
		R45			
		R58			
		R76			
		R87			
		R90			
		R92			
		R94			
61	1	R82	76-104-01	100K OHM .25W 5% RESISTOR	
62	6	R8	76-105-01	1M OHM .25W 5% RESISTOR	
		R15			
		R54			
		R68			
		R71			
		R105			
63	5	R1	76-152-01	1.5K OHM .25W 5% RESISTOR	
		R13			
		R18			
		R44			
		R74			
64	2	R5	76-153-01	15K OHM .25W 5% RESISTOR	
		R57			
65	1	R42	76-154-01	150K OHM .25W 5% RESISTOR	
66	2	R51	76-220-01	22 OHM .25W 5% RESISTOR	
		R93			
67	2	R36	76-221-01	220 OHM .25W 5% RESISTOR	
		R61			
68	6	R11	76-222-01	2.2K OHM .25W 5% RESISTOR	
		R41			
		R50			
		R86			
		R98			
		R99			
69	10	R2	76-223-01	22K OHM .25W 5% RESISTOR	
		R3			
		R7			

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		R26			
		R43			
		R70			
		R72			
		R77			
		R78			
		R91			
70	1	R56	76-225-01	2.2M OHM .25W 5% RESISTOR	
71	2	R48	76-273-01	27K OHM .25W 5% RESISTOR	
		R65			
72	3	R35	76-331-01	330 OHM .25W 5% RESISTOR	
		R40			
		R100			
73	5	R19	76-333-01	33K OHM .25W 5% RESISTOR	
		R55			
		R67			
		R102			
		R103			
74	2	R66	76-470-01	47 OHM .25W 5% RESISTOR	
		R69			
75	3	R39	76-471-01	470 OHM .25W 5% RESISTOR	
		R60			
		R81			
76	7	R14	76-472-01	4.7K OHM .25W 5% RESISTOR	
		R16			
		R17			
		R22			
		R29			
		R47			
		R79			
77	7	R21	76-473-01	47K OHM .25W 5% RESISTOR	
		R28			
		R34			
		R53			
		R59			
		R64			
		R75			
78	1	R88	76-474-01	470K OHM .25W 5% RESISTOR	
79	2	R9	76-681-01	680 OHM .25W 5% RESISTOR	
		R49			
80	2	R6	76-682-01	6.8K OHM .25W 5% RESISTOR	
		R80			
81	2	R4	76-684-01	680K OHM .25W 5% RESISTOR	
		R52			
82	2	R62	77-100-01	10 OHM .5W 5% RESISTOR	
		R97			
83	1	R24	77-152-01	1.5K OHM .5W 5% RESISTOR	
84	1	R63	77-221-01	220 OHM .5W 5% RESISTOR	
85	1	R31	77-332-01	3.3K OHM .5W 5% RESISTOR	
86	1	R106	77-752-01	7.5K OHM .5W 5% RESISTOR	

ASSEMBLY PART #

07-279-01

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
87	1	R104	78-001-05	.1 OHM 5W 5%	
88	2	R95	78-271-05	270 OHM 5W 5% W/FEET	
		R96			
89	4	R23	78-470-05	.47 OHM 5W 5% W/FEET	
		R33			
		R83			
		R85			
90	2	S1	88-302-01	MINI PCB DPDT W/1D951 GREY	GAIN SELECT
		S2			CHAN SW.
91	1	Q19	96-034-01	MJE340 NPN 300V 20W .5A	
92	2	Q5	96-142-01	TIP142 NPN 100V 125W 10A DARLINGTON	
		Q11			
93	2	Q15	96-147-01	TIP147 PNP -100V 125W -10A DARLINGTON	
		Q23			
94	1	Q12	96R006-01	MPSA06 NPN 80V 1.5W .5A	
95	2	Q13	96R013-01	MPSA13 NPN 30V 1.5W .5A DARLINGTON	
		Q22			
96	2	Q17	96R055-01	MPSA55 PNP -60V 1.5W -.5A	
		Q27			
97	3	Q4	96R112-01	J112 N-CH -35Vdg -5Vgs(off) 50ohmRdsON	
		Q21			
		Q26			
98	7	Q1	96R175-01	J175 P-CH 30Vds 3Vgs(off) 125ohmRdsON	
		Q2			
		Q3			
		Q7			
		Q16			
		Q24			
		Q25			
99	2	Q6	96R510-01	2N5210 NPN 50V 1.5W 50mA	
		Q8			
100	3	Q14	96R587-01	2N5087 PNP -50V 1.5W -50mA	
		Q18			
		Q20			
101	1	Q9	96R588-01	2N5088 NPN 30V 1.5W 50mA	

A	1/4/01	INITIAL ISSUE				
Rev.	Date	DESC.	ECR(s)/ECN(s)	Chgd by	Appvd by	DATE
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO						
ST. LOUIS MUSIC, INC.						
			SLM Electronics			
			11880 Borman Drive, St. Louis, MO 63146			
Signatures:		Date:				
Drawn: WFB		1/4/01				
Checked:			First Used On:	GFX212Ta		
Released:						
Tolerance:	Drawing Size:	A	Drawing Title:	PWA -- GUITAR AMP		
	Drawing Type:	PL				
	Class Code:		Drawing No.:	07-279-PL		
	Scale:	N/A				

ASSEMBLY PART #

07-279-02

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
1	1	PWB1	06A279-01	PWB GFX65c PC BOARD	
2	2	C71	10-332-01	.0033 uF [20% TOL] UL/VDE DISK	0.0033
		C72			
3	3	C11	10A102-11	.001 uF 100V 10% X7R	0.001
		C33			
		C50			
4	5	C13	10A103-11	.01 uF 100V 10% X7R	0.01
		C19			
		C37			
		C41			
		C73			
5	3	C5	10A104-01	.1 uF 50V 10% X7R	0.1
		C36			
		C48			
6	1	C56	10A152-11	.0015 uF 100V 10% X7R	0.0015
7	2	C10	10A153-01	.015 uF 50V 10% X7R	0.015
		C27			
8	4	C22	10A221-11	220 pF 100V 10% NPO	220 pF
		C35			
		C40			
		C43			
9	1	C60	10A222-11	.0022uF 100V 10% NPO	0.0022
10	4	C4	10A224-01	.22 uF 50V 10% X7R	0.22
		C9			
		C17			
		C68			
11	1	C2	10A332-01	.0033 uF 100V 10% X7R	0.0033
12	1	C30	10A472-11	.0047 uF 100V 10% X7R	0.0047
13	7	C8	10A473-11	.047 uF 100V 10% X7R	0.047
		C16			
		C28			
		C31			
		C44			
		C52			
		C74			
14	2	C1	10A474-01	.47 uF 50V 20% X7R	0.47
		C25			
15	2	C29	10A560-21	56 pF 200V 5% NPO	56 pF
		C53			
16	1	C18	10A562-01	.0056 uF 100V 10% X7R	0.0056
17	1	C3	10A682-01	.0068 uF 100V 10% X7R	0.0068
18	3	C63	10R104-03	.1 uF 100V 10% RAD POLY	0.1
		C66			
		C69			
19	1	C59	10R473-03	.047 uF 100V 10% RAD POLY	0.047
20	2	C67	12-478-53	4700 uF 50V 20% EL	4700
		C70			
21	6	C20	12R105-50	1 uF 50V 20% EL	1
		C21			

ASSEMBLY PART #

07-279-02

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		C39			
		C47			
		C65			
		C75			
22	3	C7	12R105-51	1 uF 50V 20% EL NP	
		C23			
		C49			
23	2	C38	12R106-35	10 uF 35V 20% EL	10
		C57			
24	1	C6	12R106-36	10 uF 35V 20% EL NP	
25	2	C12	12R107-32	100 uF 35V 20% EL	100
		C14			
26	1	C64	12R108-12	1000 uF 16V 20% EL	1000
27	1	C15	12R225-50	2.2 uF 50V 20% EL	2.2
28	5	C24	12R225-51	2.2 uF 50V 20% EL NP	
		C32			
		C34			
		C42			
		C46			
29	2	C45	12R227-02	220 uF 50V 20% EL	220
		C51			
30	1	C26	12R476-35	47 uF 35V 20% EL	47
31	1	J10	17-105-04	.1 ST POL LOCK MLSS100-4 HEADER	
32	2	J12	17-105-06	.1 ST POL LOCK MTSS100-6 HEADER	
		J21			
33	1	J4	17-108-04	.08 VERT 52007-0410 MOLEX HEADER	
34	14	J5	17-836-01	.250 PC TAB STBL LOC 6021-6	
		J8			
		J11			
		J13			
		J15			
		J19			
		J20			
		J22			
		J23			
		J24			
		J25			
		J26			
		J27			
		J28			
35	1	D35	21-206-01	KBPC-602 BRDG RECT 200V PIV 3A AT25C	GBPC602
36	2	D28	21-553-01	1N5353B 16V ZEN DIODE	1N5353B
		D29			
37	1	D18	21-572-01	5MM SQR R.A. GRN LED	GRN
38	2	D16	21-573-01	5MM SQR R.A. RED LED	RED
		D38			
39	2	D5	21-752-01	GI752 DIODE (BULK) 6A	MR-752
		D12			
40	3	D3	21A146-01	3.3V .4W ZENER 28 ohm Zz	1N746ARL
		D4			

ASSEMBLY PART #

07-279-02

REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
41	4	D25			
		D31	21A402-01	100V PIV 1A .5W	1N4002TR
		D32			
		D33			
42	18	D34			
		D1	21A914-01	75V PIV 10mA/1V .5W	1N914
		D2			
		D6			
		D9			
		D10			
		D13			
		D14			
		D15			
		D17			
		D19			
		D20			
		D21			
		D22			
		D23			
		D24			
		D27			
		D36			
		D37			
43	4	SCRW1	30-440-06	4-40 5/16 PPH TAPTITE	440
		SCRW2			
		SCRW3			
		SCRW4			
44	2	SCRW5	30-650-53	6-32 X 1/2 PPH MS	6-32
		SCRW6			
45	2	NUT1	30-700-01	6-32 HEX KEPNUT ASSY	
		NUT2			
46	1	HS2	33-004-01	HEATSINK CLIP	
47	1	HS1	33-241-01	GX-65 HEATSINK BRACKET	
48	4	INS1	35-043-01	NYLON BUSHING NATURAL	
		INS2			
		INS3			
		INS4			
49	4	INS5	35-575-02	BERQUIST K10-104 INS	
		INS6			
		INS7			
		INS8			
50	5	IC1	37-072-01	TLO-72CP DUAL OP-AMP	TLO-72
		IC2			
		IC3			
		IC4			
51	2	IC5			
		J1	39-116-01	T/S JACK HORIZ	T/S
		J3			
52	1	J2	39-117-01	TRS JACK HORIZ	TRS
53	6	P1	70-103-61	10K LINEAR [10% TOL]	10K L

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REVISION A

ITEM	QTY	REFDES	P/N	DESC	VALUE
		P2			
		P3			
		P5			
		P10			
		P11			
54	3	P4	70-103-68	10K AUDIO [10% TOL]	10K A
		P6			
		P8			
55	1	P7	70-104-63	100K REVERSE AUDIO [10% TOL]	100K RA
56	1	P9	70-501-62	500 AUDIO [10% TOL]	500 A
57	1	AP1	71-501-02	500 OHM TRIMPOT HORZ.	500
58	1	ICL1	73-501-03	15 OHM 3A MIN. IC	3A
59	95	JOW1	76-000-05	22 GA TINNED COPPER	0
		JOW2			
		JOW4			
		JW1			
		JW2			
		JW3			
		JW4			
		JW5			
		JW6			
		JW7			
		JW8			
		JW9			
		JW10			
		JW11			
		JW12			
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		JW30			
		JW31			
		JW32			
		JW33			
		JW34			
		JW35			
		JW36			

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ITEM	QTY	REFDES	P/N	DESC	VALUE
		JW37			
		JW38			
		JW39			
		JW40			
		JW41			
		JW42			
		JW43			
		JW44			
		JW45			
		JW46			
		JW47			
		JW48			
		JW49			
		JW50			
		JW51			
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		JW73			
		JW74			
		JW75			
		JW76			
		JW77			
		JW78			
		JW79			
		JW80			
		JW81			
		JW82			
		JW83			
		JW84			
		JW85			
		JW86			

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ITEM	QTY	REFDES	P/N	DESC	VALUE
		JW87			
		JW88			
		JW89			
		JW90			
		R82			
		R88			
		R90			
60	2	R20	76-047-01	4.7 OHM .25W 5% RESISTOR	4.7
		R37			
61	1	R101	76-101-01	100 OHM .25W 5% RESISTOR	100
62	2	R38	76-102-01	1K OHM .25W 5% RESISTOR	1K
		R46			
63	7	R10	76-103-01	10K OHM .25W 5% RESISTOR	10K
		R12			
		R25			
		R30			
		R45			
		R58			
		R76			
64	2	R73	76-104-01	100K OHM .25W 5% RESISTOR	100K
		R84			
65	6	R8	76-105-01	1M OHM .25W 5% RESISTOR	1M
		R15			
		R54			
		R68			
		R71			
		R105			
66	6	R1	76-152-01	1.5K OHM .25W 5% RESISTOR	1.5K
		R13			
		R18			
		R44			
		R74			
		R108			
67	2	R5	76-153-01	15K OHM .25W 5% RESISTOR	15K
		R57			
68	1	R42	76-154-01	150K OHM .25W 5% RESISTOR	150K
69	1	R51	76-220-01	22 OHM .25W 5% RESISTOR	22
70	2	R36	76-221-01	220 OHM .25W 5% RESISTOR	220
		R61			
71	8	R11	76-222-01	2.2K OHM .25W 5% RESISTOR	2.2K
		R19			
		R41			
		R50			
		R67			
		R86			
		R98			
		R99			
72	9	R2	76-223-01	22K OHM .25W 5% RESISTOR	22K
		R3			
		R7			

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ITEM	QTY	REFDES	P/N	DESC	VALUE
		R26			
		R43			
		R70			
		R72			
		R78			
		R91			
73	1	R56	76-225-01	2.2M OHM .25W 5% RESISTOR	2.2M
74	2	R48	76-273-01	27K OHM .25W 5% RESISTOR	27K
		R65			
75	3	R35	76-331-01	330 OHM .25W 5% RESISTOR	330
		R40			
		R100			
76	1	R110	76-332-01	3.3K OHM .25W 5% RESISTOR	3.3K
77	3	R55	76-333-01	33K OHM .25W 5% RESISTOR	33K
		R102			
		R103			
78	2	R66	76-470-01	47 OHM .25W 5% RESISTOR	47
		R69			
79	3	R39	76-471-01	470 OHM .25W 5% RESISTOR	470
		R60			
		R81			
80	8	R14	76-472-01	4.7K OHM .25W 5% RESISTOR	4.7K
		R16			
		R17			
		R22			
		R29			
		R32			
		R47			
		R79			
81	10	R21	76-473-01	47K OHM .25W 5% RESISTOR	47K
		R28			
		R34			
		R53			
		R59			
		R64			
		R75			
		R77			
		R89			
		R94			
82	2	R9	76-681-01	680 OHM .25W 5% RESISTOR	680
		R49			
83	3	R6	76-682-01	6.8K OHM .25W 5% RESISTOR	6.8K
		R80			
		R92			
84	2	R4	76-684-01	680K OHM .25W 5% RESISTOR	680K
		R52			
85	3	R62	77-100-01	10 OHM .5W 5% RESISTOR	10
		R97			
		R107			
86	1	R24	77-152-01	1.5K OHM .5W 5% RESISTOR	1.5K

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ITEM	QTY	REFDES	P/N	DESC	VALUE
87	1	R63	77-221-01	220 OHM .5W 5% RESISTOR	220
88	1	R31	77-332-01	3.3K OHM .5W 5% RESISTOR	3.3K
89	1	R106	77-752-01	7.5K OHM .5W 5% RESISTOR	7.5K
90	1	R104	78-001-05	.1 OHM 5W 5%	0.1
91	2	R95	78-271-05	270 OHM 5W 5% W/FEET	270
		R96			
92	4	R23	78-470-05	.47 OHM 5W 5% W/FEET	0.47
		R33			
		R83			
		R85			
93	2	S1	88-302-01	MINI PCB DPDT W/1D951 GREY	DPDT DUAL
		S2			
94	1	S3	88-606-16	16-POS ENCODER HORIZ. MNT. D-SHAFT	4-BIT ENCODER
95	1	Q19	96-034-01	MJE340 NPN 300V 20W .5A	MJE-340
96	2	Q5	96-142-01	TIP142 NPN 100V 125W 10A DARLINGTON	TIP-142
		Q11			
97	2	Q15	96-147-01	TIP147 PNP -100V 125W -10A DARLINGTON	TIP-147
		Q23			
98	1	Q12	96R006-01	MPSA06 NPN 80V 1.5W .5A	MPS-A06
99	2	Q13	96R013-01	MPSA13 NPN 30V 1.5W .5A DARLINGTON	MPS-A13
		Q22			
100	2	Q17	96R055-01	MPSA55 PNP -60V 1.5W -.5A	MPS-A55
		Q27			
101	4	Q4	96R112-01	J112 N-CH -35Vdg -5Vgs(off) 50ohmRdsON	J112
		Q10			
		Q21			
		Q26			
102	7	Q1	96R175-01	J175 P-CH 30Vds 3Vgs(off) 125ohmRdsON	J175
		Q2			
		Q3			
		Q7			
		Q16			
		Q24			
		Q25			
103	2	Q6	96R510-01	2N5210 NPN 50V 1.5W 50mA	2N5210
		Q8			
104	3	Q14	96R587-01	2N5087 PNP -50V 1.5W -50mA	2N5087
		Q18			
		Q20			
105	1	Q9	96R588-01	2N5088 NPN 30V 1.5W 50mA	2N5088