

1	1/6/03	DELETED C7	N01026	REM		
0	2/14/02	CONTROL 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: REM		1/14/02				
Checked:				First Used On:	GFX5212a	
Released:						
Tolerance:	Drawing Size:	A		Drawing Title:	PWA - DSP GUITAR AMP	
	Drawing Type:	PL				
	Class Code:			Drawing No.:	07-108-PL	
	Scale:	N/A				

ASSEMBLY PART #

07-108-01

REVISION 1

ITEM	P/N	QTY	DESC	VALUE	LABEL
PWB1	06A108-01	1	PC BOARD	GFX5212a	
C13	10-102-10	2	.001 uF 400V [10% TOL] WIMA MTLPOLY	0.001	
C14					
C11	10-103-10	1	.01 uF 400V [10% TOL] WIMA MTLPOLY	0.01	
C4	10-104-10	1	.1uF 400V [10% TOL] WIMA MTLPOLY	0.1	
C52	10-104-21	1	.1uF 250V [10% TOL]		
C5	10-223-10	8	.022 uF 400V [10% TOL] WIMA MTLPOLY	0.022	
C16					
C18					
C21					
C24					
C25					
C28					
C29					
C39	10-332-01	2	.0033 uF [20% TOL] UL/VDE DISK	0.0033	
C40					
C2	10-473-10	3	.047 uF 400V [10% TOL] WIMA MTLPOLY	0.047	
C9					
C15					
C10	10-684-21	1	.68uF 250V [10per TOL]	0.68	
C30	10A471-21	1	470 pF 200V 10% NPO	470 pF	
C23	10R102-03	1	.001 uF 100V 10% RAD POLY		
C6	10R221-04	1	220 pF 400V 10% Z5F DISK RADIAL TAPED	220 pF	
C22	10R471-52	3	470 pF 500V 10% Z5F DISK RADIAL TAPED	470 pF	
C37					
C38					
C42	12-107-93	1	100 uF 450V 20% EL	100	
C41	12-108-32	2	1000 uF 35V 20% EL	1000	
C43					
C33	12-228-16	2	2200 uF 16V 20per EL	2200	
C34					
C19	12-476-42	4	47 uF 450V 20% EL	47	
C20					
C26					
C27					
C1	12R105-50	3	1 uF 50V 20per EL	1	
C31			1 uF 50V 20% EL		
C32					
C8	12R106-35	8	10 uF 35V 20% EL	10	
C17					
C35					
C36					
C44					
C45					
C48					
C49					

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REVISION 1

ITEM	P/N	QTY	DESC	VALUE	LABEL
C12	12R106-36	2	10 uF 35V 20% EL NP		
C50					
C55	12R108-12	2	1000 uF 16V 20per EL	1000	
C56					
C46	12R476-62	3	47 uF 63V 20% EL	47	
C47					
C51					
C53	12R684-50	1	.68 uF 50V 20% EL	0.68	
J7	17-105-02	1	.1 ST POL LOCK MTSS100-2 HEADER	.100 2PIN"	
J2	17-105-04	1	.1 ST POL LOCK MLSS100-4 HEADER	HEADER	
J9	17-105-06	1	.1 ST POL LOCK MTSS100-6 HEADER		
J32	17-105-07	2	.1 ST POL LOCK MTSS100-7 HEADER"	L100-7V	
J33					
J35	17-108-04	1	.08 VERT 52007-0410 MOLEX HEADER		
J30	17-309-02	1	.156 ST POL MPSS156-2-D HEADER"	P156-2V	
J23	17-310-03	3	.156 ST POL MFSS156-3-D HEADER"	156-3V	
J24					
J27			ST POL MFSS156-3-D HEADER		
J13	17-320-05	1	5 PIN HEADER 5MM POLAR	5MM CONN	
V4	17-450-04	2	8 PIN TUBE SOCKET W/SHORT LEADS	8-PIN	
V6					
V1	17-451-09	4	9 PIN TOP PC MNT TUBE SOCKET	9-PIN	
V2					
V3					
V8					
J10	17-581-01	1	PC MNT BAYONET SOCKET	LAMP HOLDER	
J18	17-836-01	4	.250 PC TAB STBL LOC 6021-6	.250 TAB	0
J20					
J21					
J22					
J4	17-894-01	10	.187 PC TAB STBL LOC 6024-6	.187 TAB	
J5					
J6					
J14					
J15					
J16					
J17					
J19					
J25					
J26					
D1	21A146-01	2	3.3V .4W ZENER 28 ohm Zz	1N746	
D6					
D13	21A402-01	6	100V PIV 1A .5W	1N4002	
D14					
D15					
D16					
D17					
D18					

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ITEM	P/N	QTY	DESC	VALUE	LABEL
D9	21A407-01	4	1KV PIV 1A .5W	1N4007	
D10					
D11					
D12					
D19	21A754-01	2	6.8V .5W ZENER 5 ohm Zz	1N754ARL	
D20					
D2	21A914-01	6	75V PIV 10mA/1V .5W	1N914	
D3					
D4					
D5					
D7					
D8					
F1	23-312-01	1	3 AMP 3AG SLO BLO FUSE/250V GLASS CART	2 A SB	
FC1	23-926-02	2	Universal Fuse Clip	23-926-02	
FC2					
SCREW1	30-638-53	4	6-32X3/8 PPH MS SEMS	11841	
SCREW2					
SCREW3					
SCREW4					
NUT1	30-700-01	4	6-32 HEX KEPNUT ASSY		
NUT2					
NUT3					
NUT4					
U1	37-072-01	2	TLO-72CP DUAL OP-AMP	TLO-72	
U2					
J1	39-012-01	1	112APC JACK VERT.	112 APC	INPUT
J11	39-119-01	3	T/S JACK HORIZ CHROME NUT	T/S	LINE OUT
J12					LINE IN
J31					SPEAKER
J3	39-120-01	1	T/R/S JACK CHROME NUT	T/R/S	CH/ FX SW JACK
OC1	66-101-01	5	VTL-5C3 VACTROL	VTL-5C3	0
OC2					
OC3					
OC4					
OC5					
P3	70-103-22	1	10K AUDIO 15%@50% (10% TOL)	10K A	MID
P12	70-132-01	1	10K LINEAR 15%@50%(10%TOL)	10KL	REVERB2
P4	70-105-22	3	1M LOG 15%@50% (10% TOL)	1M LOG	VOLUME
P7					LOW
P10					PRESENCE
P2	70-254-22	3	250K AUDIO 5per@50per [10per TOL]	250K A	HIGH
P5			250K AUDIO 5%@50% [10% TOL]		LOW

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ITEM	P/N	QTY	DESC	VALUE	LABEL
P9					GAIN
P1	70-306-01	2	250K LINEAR (10% TOL)	250KL	LEVEL
P6	70-306-01				HIGH
P8	70-503-22	1	50K AUDIO 15%@50% (10% TOL)	50K A	MID
AP2	71-253-25	1	25K OHM TRIMPOT HORZ.	25K	BIAS
JW1	76-000-05	70	22 GA TINNED COPPER	0	0
JW2					
JW3					
JW4					
JW5					
JW6					
JW7					
JW8					
JW9					
JW10					
JW11					
JW12					
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JW37					
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JW39					
JW40					
JW41					
JW42					
JW43					
JW44					
JW45					

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REVISION 1

ITEM	P/N	QTY	DESC	VALUE	LABEL
JW46					
JW47					
JW48					
JW49					
JW50					
JW51					
JW52					
JW53					
JW54					
JW55					
JW56					
JW57					
JW58					
JW59					
JW60					
JW61					
JW62					
JW63					
JW64					
JW65					
JW66					
JW67					
JW68					
JW69					
JW70					
R41	76-103-01	4	10K OHM .25W 5per RESISTOR	10K	
R62			10K OHM .25W 5% RESISTOR		
R86			10K OHM .25W 5per RESISTOR		
R91					
R35	76-104-01	1	100K OHM .25W 5% RESISTOR	100K	
R65	76-105-01	2	1M OHM .25W 5per RESISTOR	1M	
R78					
R61	76-152-01	2	1.5K OHM .25W 5per RESISTOR	1.5K	
R70					
R36	76-153-01	2	15K OHM .25W 5% RESISTOR	15K	
R38					
R11	76-221-01	1	220 OHM .25W 5% RESISTOR	220	
R68	76-222-01	1	2.2K OHM .25W 5% RESISTOR	2.2K	
R64	76-223-01	3	22K OHM .25W 5% RESISTOR	22K	
R69					
R77					
R89	76-273-01	1	27K OHM .25W 5per RESISTOR	27K	
R34	76-333-01	1	33K OHM .25W 5% RESISTOR	33K	
R12	76-471-01	1	470 OHM .25W 5% RESISTOR	470	
R33	76-472-01	5	4.7K OHM .25W 5% RESISTOR	4.7K	
R40					
R60			4.7K OHM .25W 5per RESISTOR		
R67					
R81			4.7K OHM .25W 5% RESISTOR		
R66	76-473-01	1	47K OHM .25W 5% RESISTOR	47K	

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REVISION 1

ITEM	P/N	QTY	DESC	VALUE	LABEL
R79	76-682-01	1	6.8K OHM .25W 5per RESISTOR	6.8K	
R71	77-101-02	2	100 OHM .5W 1% RESISTOR	100	
R72					
R29	77-102-02	1	1K OHM .5W 1% RESISTOR	1K	
R5	77-104-02	8	100K OHM .5W 1% RESISTOR	100K	
R6					
R9					
R19					
R27				100K 1%	1/2W
R28				100K	
R52					
R53					
R2	77-105-02	6	1M OHM .5W 1% RESISTOR	1M	
R8					
R10					
R17					
R56					
R57					
R37	77-152-01	2	1.5K OHM .5W 5% RESISTOR	1.5K	
R39					
R1	77-152-02	2	1.5K OHM .5W 1% RESISTOR		
R3					
R7	77-222-02	1	2.21K OHM .5W 1per RESISTOR	2.21K	
R59	77-223-02	2	22.1K OHM .5W 1% RESISTOR	22.1K	
R80					
R13	77-224-02	7	221K OHM .5W 1% RESISTOR	221K	
R22					
R25					
R26					
R50					
R51					
R82					
R14	77-272-02	5	2.74K OHM .5W 1% RESISTOR	2.74K	
R46					
R47					
R48					
R76					
R31	77-333-02	1	33.2K OHM .5W 1% RESISTOR	33.2K	
R58	77-471-02	1	475 OHM .5W 1% RESISTOR	470	
R20	77-472-02	1	4.75K OHM .5W 1per RESISTOR	4.75K	
R4	77-473-02	4	47.5K OHM .5W 1% RESISTOR	47.5K	
R21					
R23			47.5K OHM .5W 1per RESISTOR		
R84					
R15	77-474-02	5	475K OHM .5W 1% RESISTOR	475K	
R16					
R18					
R24					
R32					
R83	78-100-01	1	10 OHM 2W 5per MOX OR CF BULK	10	

ASSEMBLY PART #

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REVISION 1

ITEM	P/N	QTY	DESC	VALUE	LABEL
R74	78-100-92	4	10 OHM 2W 1per HIGH SURGE		
R75					
R85					
R87					
R49	78-151-05	1	150 OHM 5W 5%	150	
R73	78-154-02	1	150K 2W 5% MOX OR CF BULK	150K	
R42	78A101-21	4	100 OHM 2W 5% MOX TAPE & REEL	100	
R43					
R88					
R90					
R30	78A103-21	3	10K 2W 5% MOX OR CF T&R	10K	
R54					
R55					
SPCER1	85-125-01	4	1/4 X 1/2 HEX F STANDOFF	0	
SPCER2					
SPCER3					
SPCER4					
SW3	88-214-02	1	DPDT PCMNT IMPEDANCE SW/ NO MARK	DPDT	IMPEDANCE SELECT
SW1	88-302-02	1	MINI PCB DPDT W/1C911 BLACK (RECT)	DPDT DUAL	CHANNEL SW
SW2	88-602-16	1	16 POSITION ENCODER	16 BIT ENCODER	0
Q5	96R112-01	2	J112 N-CH -35Vdg -5Vgs(off) 50ohmRdsON	J112	
Q6					
Q1	96R587-01	3	2N5087 PNP -50V 1.5W -50mA	2N5087	
Q2					
Q3					
W1	97-168-38	1	3.5 WHITE STRIP WIRE"	WHT WIRE	WHT
W2	97-168-39	1	3.5 BLUE STRIP WIRE"	BLUE WIRE	BLUE
W3	97-168-36	1	3.5" BLACKSTRIP WIRE 20 GA	BJACK WIRE	BLACK