


P/N 07-774-01

- NOTES:
- 1) CAUTION: SHOCK HAZARD!!!  
THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS
  - 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W - 5% TOL. CAPACITOR VALUES IN MICROFARADS, 50V - 10% TOL.
  - 3) VOLTAGES ARE MEASURED WITH A 1M OHM OSCILLOSCOPE AND 10M OHM DIGITAL VOLTMETER.

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.

0	5/9/2000	CONTROL ISSUE				
J	3/3/2000	CHANGE L1 TO R101 10 OHM 1/2 WATT-	R00362	REM		
H	2/25/2000	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 Bonmar Drive, St. Louis, MO 63148		
Drawn:	REM	9/21/99	First Used On: TX50a			
Checked:			Drawing Title: PWA - GUITAR AMP			
Released:			Drawing Number: 07-774-XX			
Plot Date: Mon Jan 22, 2001	Plot Time: 08:12:48	Drawing Size: B	Drawing Type: ASSEMBLY			
Tolerance:	Class Code: NONE	Sheet 1 of 1				

<b>0</b>	<b>5/9/00</b>	<b>CONTROL ISSUE</b>		<b>REM</b>		
<b>J</b>	<b>3/3/00</b>	<b>L1 TO 3/3/00</b>	<b>R00362</b>	<b>REM</b>		
<b>H</b>	<b>2/28/00</b>	<b>INITIAL ISSUE</b>				
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 63141			
Signatures:		Date:				
Drawn: REM		2/28/00				
Checked:			First Used On:	TX50a		
Released:						
Tolerance:	Drawing Size:	A	Drawing Title:	PWA - GUITAR AMP		
	Drawing Type:	PL				
	Class Code:		Drawing No.:	07-774-PL		
	Scale:	N/A				

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ITEM	QTY	REFDES	P/N	DESC
1	1	PWB1	06A774-01	TX50a
2	7	C11	10A101-21	100 pF 200V 10% NPO
		C12		
		C43		
		C47		
		C49		
		C74		
		C75		
3	2	C17	10A103-11	.01 uF 100V 10% X7R
		C59		
4	14	C3	10A104-01	.1 uF 50V 10% X7R
		C5		
		C13		
		C20		
		C23		
		C29		
		C32		
		C33		
		C34		
		C35		
		C50		
		C60		
		C82		
		C83		
5	1	C18	10A150-21	15 pF 200V 10% NPO
6	1	C31	10A221-11	220 pF 100V 10% NPO
7	3	C36	10A222-11	.0022uF 100V 10% NPO
		C37		
		C40		
8	2	C76	10A223-01	.022 uF 50V 10% X7R
		C77		
9	1	C15	10A330-21	33 pF 200V 10% NPO
10	2	C19	10A471-11	470 pF 100V 5% NPO
		C27		
11	1	C39	10A472-11	.0047 uF 100V 10% X7R
12	3	C65	10A473-11	.047 uF 100V 10% X7R
		C66		
		C67		
13	1	C38	10A682-01	.0068 uF 100V 10% X7R
14	7	C1	10R104-03	.1 uF 100V 10% RAD POLY
		C2		
		C7		
		C26		
		C53		
		C54		
		C62		
15	4	C21	12-478-25	4700 uF 25V 20% EL
		C51		
		C52		

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ITEM	QTY	REFDES	P/N	DESC
		C61		
16	4	C14	12R105-50	1 uF 50V 20% EL
		C16		
		C42		
		C58		
17	6	C6	12R105-51	1 uF 50V 20% EL NP
		C44		
		C63		
		C64		
		C69		
		C71		
18	7	C4	12R106-35	10 uF 35V 20% EL
		C8		
		C22		
		C55		
		C57		
		C70		
		C84		
19	12	C9	12R106-36	10 uF 35V 20% EL NP
		C10		
		C28		
		C30		
		C45		
		C46		
		C48		
		C68		
		C72		
		C73		
		C78		
		C79		
20	1	C25	12R107-32	100 uF 35V 20% EL
21	3	C41	12R225-50	2.2 uF 50V 20% EL
		C80		
		C81		
22	1	C56	12R475-82	4.7 uF 50V 20% EL NP
23	1	C24	12R476-35	47 uF 35V 20% EL
24	1	J21	17-105-02	.1" ST POL LOCK MTSS100-2 HEADER
25	2	J12	17-105-03	.1 ST POL LOCK MLSS100-3 HEADER
		J23		
26	2	J15	17-105-04	.1 ST POL LOCK MLSS100-4 HEADER
		J22		
27	1	J16	17-105-07	.1" ST POL LOCK MTSS100-7 HEADER
28	1	J11	17-309-02	ST POL MPSS156-2-D HEADER
29	1	J14	17-309-04	.156" ST POL MPSS156-4-D HEADER
30	3	J8	17-311-02	.156" R/A MFAS156-2-D HEADER
		J9		
		J10		
31	1	D1	21-224-01	RED LED RIGHT ANGLE
32	3	D9	21-541-01	1N5401 DIODE/MOTOROLA 3 AMP
		D10		

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ITEM	QTY	REFDES	P/N	DESC
		D11		
33	1	D30	21-592-01	YELLOW/ORANGE BI-COLOR LED
34	6	D14	21A146-01	3.3V .4W ZENER 28 ohm Zz
		D15		
		D18		
		D19		
		D21		
		D22		
35	1	D12	21A437-01	7.5V 1W ZENER 4 ohm Zz
36	1	D6	21A440-01	10V 1W ZENER 7 ohm Zz
37	2	D7	21A754-01	6.8V .5W ZENER 5 ohm Zz
		D8		
38	17	D2	21A914-01	75V PIV 10mA/1V .5W
		D3		
		D4		
		D5		
		D13		
		D16		
		D23		
		D24		
		D25		
		D26		
		D27		
		D28		
		D29		
		D31		
		D32		
		D33		
		D34		
39	2	F1	23A305-01	5A PICO II SB FUSE
		F2		
40	1	SCREW3	30-011-01	RIVSCREW - .130 THK
41	2	SCREW1	30-408-52	4-40 X 1/2 PPHEAD M/S
		SCREW2		
42	2	NUT3	30-442-52	4-40 A.F. HEXKEPS ASSY
		NUT4		
43	2	NUT1	30-859-01	10-32 X 3/8 HEX KEPNUT
		NUT2		
44	1	HS2	33-005-01	TX-50 HEATSINK
45	1	HS1	33-047-01	TO-220 PC MNT HEATSINK 30W
46	1	U2	37-074-01	TLO-74 QUAD OP-AMP
47	1	U6	37-162-01	TDA-1562Q 70W CLASS H PWR AMP +12V
48	3	U3	37-458-01	RC 4558P DUAL OPAMP
		U5		
		U7		
49	2	U1	37-532-01	NE5532(N/P) DUAL OP-AMP
		U4		
50	2	J3	39-117-01	TRS JACK HORIZ
		J4		
51	3	J1	39-117-51	T/R/S JACK W/GND WASHER

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ITEM	QTY	REFDES	P/N	DESC
		J2		
		J25		
52	1	J13	39-121-05	DUAL RCA HORIZ MOUNT
53	2	J5	39-202-01	MALE POWER JACK 2MM
		J7		
54	1	J6	39-320-01	BELTON F HORIZ XLR
55	3	J17	51-149-01	PC MOUNT GROUND BRACKET #6 HOLE
		J18		
		J19		
56	1	OC1	66-100-01	VTL-5C7 VACTROL
57	4	P8	70-103-91	10K LINEAR [10% TOL]
		P11		
		P12		
		P13		
58	3	P6	70-103-92	10K AUDIO [10% TOL]
		P7		
		P9		
59	3	P1	70-254-91	250K LINEAR [10% TOL]
		P5		
		P14		
60	1	P10	70-501-92	500 AUDIO [30% TOL]
61	3	P2	70-503-91	50K LINEAR [10% TOL]
		P3		
		P4		
62	48	JW1	76-000-05	22 GA TINNED COPPER
		JW2		
		JW3		
		JW4		
		JW5		
		JW6		
		JW7		
		JW8		
		JW9		
		JW10		
		JW11		
		JW12		
		JW13		
		JW14		
		JW15		
		JW16		
		JW17		
		JW18		
		JW19		
		JW20		
		JW21		
		JW22		
		JW23		
		JW24		
		JW25		
		JW26		

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ITEM	QTY	REFDES	P/N	DESC
		JW27		
		JW28		
		JW29		
		JW30		
		JW31		
		JW32		
		JW33		
		JW34		
		JW35		
		JW36		
		JW37		
		JW38		
		JW39		
		JW40		
		JW41		
		JW42		
		JW43		
		JW44		
		JW45		
		JW46		
		JW47		
		JW48		
63	2	R92	76-100-01	10 OHM .25W 5% RESISTOR
		R93		
64	2	R19	76-101-01	100 OHM .25W 5% RESISTOR
		R73		
65	6	R22	76-102-01	1K OHM .25W 5% RESISTOR
		R23		
		R24		
		R75		
		R83		
		R91		
66	22	R6	76-103-01	10K OHM .25W 5% RESISTOR
		R13		
		R26		
		R35		
		R38		
		R43		
		R44		
		R45		
		R47		
		R48		
		R49		
		R50		
		R51		
		R53		
		R55		
		R56		
		R59		
		R60		

ITEM	QTY	REFDES	P/N	DESC
		R61		
		R84		
		R99		
		R100		
67	3	R9	76-103-02	10K OHM .25W 1% RESISTOR
		R10		
		R12		
68	2	R96	76-103-21	10K OHM .125W 5% RESISTOR
		R97		
69	13	R31	76-104-01	100K OHM .25W 5% RESISTOR
		R32		
		R57		
		R66		
		R76		
		R77		
		R85		
		R86		
		R87		
		R88		
		R89		
		R90		
		R94		
70	2	R95	76-104-21	100K OHM .125W 5% RESISTOR
		R98		
71	4	R5	76-105-01	1M OHM .25W 5% RESISTOR
		R36		
		R41		
		R82		
72	1	R52	76-123-01	12K OHM .25W 5% RESISTOR
73	1	R4	76-151-01	150 OHM .25W 5% RESISTOR
74	1	R16	76-154-01	150K OHM .25W 5% RESISTOR
75	2	R7	76-172-02	1.74K OHM .25W 1% RESISTOR
		R8		
76	1	R54	76-182-01	1.8K OHM .25W 5% RESISTOR
77	1	R62	76-220-01	22 OHM .25W 5% RESISTOR
78	5	R15	76-222-01	2.2K OHM .25W 5% RESISTOR
		R18		
		R67		
		R78		
		R79		
79	3	R2	76-223-01	22K OHM .25W 5% RESISTOR
		R80		
		R81		
80	1	R27	76-273-01	27K OHM .25W 5% RESISTOR
81	1	R46	76-332-01	3.3K OHM .25W 5% RESISTOR
82	7	R28	76-471-01	470 OHM .25W 5% RESISTOR
		R33		
		R34		
		R37		
		R42		



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ITEM	QTY	REFDES	P/N	DESC
		R63		
		R64		
83	7	R1	76-472-01	4.7K OHM .25W 5% RESISTOR
		R3		
		R11		
		R14		
		R58		
		R68		
		R69		
84	1	R40	76-473-01	47K OHM .25W 5% RESISTOR
85	2	R39	76-474-01	470K OHM .25W 5% RESISTOR
		R74		
86	2	R29	76-561-01	560 OHM .25W 5% RESISTOR
		R30		
87	1	R70	76-681-01	680 OHM .25W 5% RESISTOR
88	1	R17	76-823-01	82K OHM .25W 5% RESISTOR
89	1	R101	77-100-01	10 OHM .5W 5% RESISTOR
90	1	R72	77-102-01	1K OHM .5W 5% RESISTOR
91	1	R21	78-030-10	3 OHM 10W 10% W/FEET
92	1	R25	78-047-05	47 OHM 5W 10% W/FEET
93	1	R71	78-100-05	10 OHM 5W 5% W/FEET
94	1	R20	78-181-10	180 OHM 10W 10% W/FEET
95	1	R65	78A152-01	1.5K 1W 5% T&R
96	1	SW1	88-302-03	MINI PCB DPDT W/1D911 BLACK
97	1	Q1	96-032-03	TIP32C PNP -100V 40W -3A (CONTINUOUS)
98	2	Q3	96R006-01	MPSA06 NPN 80V 1.5W .5A
		Q4		
99	1	Q2	96R056-01	MPSA56 PNP -80V 1.5W -.5A
100	4	Q5	96R175-01	J175 P-CH 30Vds 3Vgs(off) 125ohmRdsON
		Q6		
		Q7		
		Q8		
101	2	Q9	96R510-01	2N5210 NPN 50V 1.5W 50mA
		Q10		
102	0		0	0