



GLUE HEATSINK TO U11 AS SHOWN

INSTALL RC1 AND RC2 AS SHOWN WITH RED WIRE AS PIN 1
 BAR DESIGNATES CATHODE END OF LED

INSTALL RC3 AS SHOWN WITH RED WIRE AS PIN 1

ASSEMBLY SHOWN IS FOR -03

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

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.

B	1-14-00	ADDED -03				RLB
A	7-7-99	INITIAL ISSUE				RLB
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: RLB		7-1-99				
Checked:		Released:		First Used On: DX112/212		
Plot Date: Thu Jan 18, 2001		Drawing Size: B		Drawing Title: PWA, PREAMP		
Plot Time: 08:20:16		Drawing Type: ASSEMBLY		Drawing Number: 06B850-XX		
Tolerance:		Class Code: NONE		Sheet 1 of 1		

Parts List	100W Digital Guirar Amplifier			SLM ELECTRONICS		Assembly Part Number 06B850-03			Appv'd:	Date:
	DX212d			St. Louis, MO 63146		Document No. 06B850-PL Rev. 3	ECN	N00407	Released:	Date:
SLM Part No.	Vendor Part No.	Vendor	Substitution	DESCRIPTION	Note	Package	QTY	TYPE	Reference designators	
							_03			
06A850-04			-----	RAW PWB: DX series preamplifier	*		1			
	GRM40 X7R 102 M 050 A	Murata	or equal	.001 uF X7R		0805	2	SMT	C14, C20	
	GRM40 X7R 103 M 050 A	Murata	or equal	.01 uF X7R		0805	8	SMT	C29, C30, C33, C35, C46, C47, C48, C52	
	GRM39 X7R 104 M 016 A	Murata	or equal	.1uF X7R		0603	22	SMT	C2, C3,C5, C6, C8, C15, C18, C21, C22, C23, C42, C43, C44, C55	
	GRM39 X7R 153 M 025 A	Murata	or equal	0.015 uF X7R	****	0603	15	SMT	C58, C59, C63, C64, C72, C73, C80, C81	
	GRM39 X7R 153 K 025 A	Murata	or equal	0.015 uF X7R 10%	****	0603	1	SMT	C31, C32, C34, C36, C37, C38, C40, C45, C49, C50, C51, C56, C57, C78, C79	
	GRM40 X7R 221 M 050 A	Murata	or equal	220 pF X7R		0805	6	SMT	C41	
	GRM40 X7R 222 M 050 A	Murata	or equal	0.0022uF X7R		0805	1	SMT	C12, C17, C60, C61, C62, C65	
	GRM42-6 X7R 223 M 050 A	Murata	or equal	0.022 uF X7R		1206	1	SMT	C10	
	GRM42-6 X7R 224 M 025 A	Murata	or equal	0.22 uF X7R		1206	5	SMT	C19	
	GRM40 COG 330 J 050 A	Murata	or equal	33 pF COG		0805	2	SMT	C67, C68, C69, C70, C71	
	GRM40 COG 470 J 050 A	Murata	or equal	47 pF COG		0805	1	SMT	C28, C39	
	GRM40 X7R 474 M 016 A	Murata	or equal	0.47 uF X7R		0805	1	SMT	C16,C53,C54	
									C77	
12R106-35	USA1V100MCA1TE	Nichicon	or equal	10UF 35V		Radial Capacitor	11	Thole	C1, C4, C7, C9, C11, C24, C25, C26, C74, C75, C76	
12R226-82	USP1C220MCA1TE	Nichicon	or equal	22MFD 16V NP		Radial Capacitor	2	Thole	C13, C66	
17-192-07	52011-0710	Molex	-----	MOLEX WIRETRAP CONNECTOR		7-COND VERTICAL .1 SPACING	2	Thole	J1, J6	
	PCS-032SMU-11	Augat	or equal	Socket, IC		32 PIN PLCC Surface Mount	1	SMT	(U4) PLCC32P-T-SMT by Berg is also acceptable.	
21S914-02	MMBD914LT1	Motorola	or equal	1N914 DIODE 0.1 A 100 V		SOT-23	8	SMT	D1, D3, D15, D16, D17, D18, D28, D29	
				50 PIV 1A RECTIFIER		DO214AC / SMA	4	SMT	D2, D32, D33, D34	
				3.3V .225W ZENER 28 ohm Zzt		SOT-23	2	SMT	D30, D31	
	95-21VGC/TR9	Everlight	-----	Green SMT LED		1.9MM GULL-WING	16	SMT	D4, D5, D6, D7, D8, D9, D10, D13, D14, D19, D20, D21, D22, D25	
									D26, D27	
	95-21VYC/TR9	Everlight	-----	Yellow SMT LED		1.9MM GULL-WING	4	SMT	D11, D12, D23, D24	
33-576-01	576802B00000	AAVID		Heatsink TO-220 clip_on			1		HS1	
33-576-02	591202B00000	AAVID		Heat sink (for 37S569-81)			1		HS2	
	6N138	Siemens	-----	OPTO ISOLATOR		8 pin DIP	1	Thole	U8	
37S805-01	38A82501A U17	Pioneer	-----	PLD	*	20 pin PLCC	1	SMT	U17	
	MC68HC11E0CFNW	Motorola	-----	MICROCONTROLLER		52 Pin PLCC	1	SMT	U1	
37S001-04	37S001-04	Pioneer	-----	Flash memory 128K x 8, Programmed	*	32 PIN PLCC	1	SMT	U4	
	ATSM-49 12.000 MHz	M-TRON	-----	12.000 MHZ CRYSTAL		ATSM-49	1	SMT	X2	
	TL074C	SGS, TI	or equal	QUAD OP-AMP		14-PIN SOIC	1	SMT	U16	
37S181-01	DS1811R-5	Dallas Semi	-----	ECONO-RESET 5V 5%		SOT23	1	SMT	U2	
37S569-81	DSP56009FJ81	Motorola	-----	24bit 81MHz DSP	***	80 PIN QFP	1	SMT	U11	
37S452-01	AK4520AVF	AKM	-----	20 bit Stereo Codec		28 pin VSOP	1	SMT	U14	
	MC74HC573ADW	Motorola	or equal	OCTAL LATCH		20-PIN SOIC	2	SMT	U3, U10	
	SN74HC04D	TI	-----	HEX INVERTER		14-PIN SOIC	1	SMT	U6	
	MC74HC541DW	Motorola	or equal	OCTAL BUFFER		20-PIN SOIC	2	SMT	U7, U13	
	TLC0838CDW	TI	-----	8-CH 8-BIT A/D		20-PIN SOIC	1	SMT	U9	
	CY7C1009-20VC	Cypress	-----	128K X 8 SRAM 20		32-PIN SOJ 300 MIL	1	SMT	U21	
	74HC00AD	Motorola	or equal	Quad 2 input nand gate		14-PIN SOIC	1	SMT	U5	
	MC74HC4040AD	Motorola	or equal	12-Stage Binary Ripple Counter		16-PIN SOP	1	SMT	U19	
	MC79L05ACD	Motorola	or equal	neg 5V SMT voltage regulator		SOP8	1	SMT	U18	

