

USE JUMPER WIRE  
MUST BE P/N 76-000-05  
OR  
GND LUG P/N 17-500-01

USE JUMPER WIRE  
MUST BE P/N 76-000-05  
OR  
GND LUG P/N 17-500-01

SOLDER C51 TO LEADS ON R30.


TUBE INSTALLATION

DESIGNATOR	PART#	DESCRIPTION
V1	97-927-01	12AX7 TESTED
V2	97-927-01	12AX7 TESTED
V3	97-927-01	12AX7 TESTED
V4	95-634-50	EL34 UNTESTED RUSSIAN
V5	95-634-50	EL34 UNTESTED RUSSIAN

HARDWARE & MISC

QUANTITY	PART#	DESCRIPTION
4	30-638-53	SCREW 6-32 PPH MS SEMS
4	30-700-01	6-32 NUT HEXKEPS ASSY
4	85-125-01	6-32 STANDOFF 1/2" ALUM.
1	23-312-01	2 AMP SLD BLD FUSE
1	06A278-01	PC BOARD

REV	DATE	BY	CHK'D	DESCRIPTION
12				
11				
10	07/13/98	WFB		12 > 12R, 96 > 96R PER E980021
9	01/21/98	MAG		CHG'D FUSE VALUES, ADDED 3A ICL PREP & NOTE 8 TO SCHEMATIC ONLY PER E970858.
8	11/14/97	DLS		MADE CHANGES TO SCHEMATIC PER E970778
7	08/15/97	MAG		ADDED EXPORT WIRING AND TI TRANSFORMER WIRING TABLE TO SCHEMATIC PER ECO 970457.
6	06/25/97	MAG		ADDED 10A473-11 PER ECO 970281.
5	5/12/97	REM	OK	ADDED JW52 PER E970040. TO REDUCE HUM NOISE.
4	2/13/97	REM	OK	R46 TO METAL OXIDE ES PER E960276.
3	1/06/97	MAG		FUSECLIPS TO -02 PER E960582.
2	10/6/95	REM		CHG'D J10 TO .250" TAB PER E950049.
1	6/23/95	REM		CHG'D R59 FROM 39K TO 27K PER E950142. CAPS TO 10R & 12R AS SHOWN, J8,J9 TO -04.

<b>SIGNATURES:</b>		<b>DATE:</b>		 11880 BORMAN DR. ST. LOUIS, MISSOURI 63146
DRAWN:	REM	03/08/95		
CHK'D:	OK	03/08/95		PROJECT NAME:
APP'D:	OK	03/08/95		R-12R, R-212R, R-50H
ORIGINAL ISSUED:		03/08/95		DRAWING NAME:
PLOT DATE:		09/18/98		PC BOARD PICTORIAL
PLOT TIME:		14:17:06		DRAWING NO. 07P278-01
FILE NAME:		27801PK_		REV. 10
SCALE: NTS		SHEET: 1 OF 2		

A

B

C

D

E

DESIGNATOR	PART #	DESCRIPTION	TRIM
AP1	71-253-25	25K	
C1	10-223-10	.022uF	400V
C3	10-101-03	100pF	1KV
C4	10-104-10	.1uF	400V
C5	10-473-10	.047uF	400V
C6	10-221-04	220pF	400V
C7	10-223-10	.022uF	400V
C8	12-476-42	47uF	450V
C9	10-223-10	.022uF	400V
C10	10-223-10	.022uF	400V
C11	12R226-50	22uF	50V
C12	12R105-51	1uF N. P.	50V
C13	10A471-11	470pF	50V
C14	10-223-10	.022uF	400V
C15	10A471-11	470pF	50V
C16	10A224-01	.22	50V
C17	10A471-11	470pF	50V
C18	10A104-01	.1uF	50V
C19	10-104-10	.1uF	400V
C20	12-476-42	47uF	450V
C21	10-223-10	.022uF	400V
C22	10-223-10	.022uF	400V
C23	12-476-42	47uF	450V
C25	12R105-51	1uF N. P.	50V
C26	12R105-51	1uF N. P.	50V
C27	10A104-01	.1uF	50V
C28	10A104-01	.1uF	50V
C29	10-332-01	.0033uF	UL
C30	10-332-01	.0033uF	UL
C32	12-107-30	100uF	450V
C33	12-228-26	2200uF	25V
C34	12-228-26	2200uF	25V
C35	12R476-35	47uF	35V
C36	12R476-35	47uF	35V
C37	10-473-61	.047	600V
C38	12R476-62	47uF	63V
C39	10A104-01	.1uF	50V
C40	10-102-10	.001uF	400V
C41	12R476-35	47uF	35V
C42	12R476-35	47uF	35V
C43	12R226-50	22uF	50V
C45	12R476-81	47uF	16V
C46	12R225-51	2.2uF N. P.	50V
C47	12R225-51	2.2uF N. P.	50V
C48	12R225-51	2.2uF N. P.	50V
C49	10-102-10	.001uF	400V
C50	10A104-01	.1uF	50V
C51	10A473-11	.047uF	100V
D1	21A914-01	1N914	100V
D2	21A914-01	1N914	100V
D3	21A146-01	1N746A	3.3V
D4	21A914-01	1N914	100V
D5	21A146-01	1N746A	3.3V
D6	21A754-01	1N754A	6.8V
D7	21A914-01	1N914	100V
D8	21A914-01	1N914	100V
D9	21A914-01	1N914	100V
D10	21A914-01	1N914	100V
D11	21A914-01	1N914	100V
D12	21A914-01	1N914	100V
D13	21A407-01	1N4007	1000
D14	21A407-01	1N4007	1000
D15	21A407-01	1N4007	1000
D16	21A407-01	1N4007	1000
D17	21A407-01	1N4007	1000
D18	21A407-01	1N4007	1000
D19	21A407-01	1N4007	1000
D20	21A407-01	1N4007	1000
D21	21A407-01	1N4007	1000
D22	21A407-01	1N4007	1000
D23	21A407-01	1N4007	1000
D24	21A407-01	1N4007	1000
D25	21A407-01	1N4007	1000
D26	21A407-01	1N4007	1000
D27	21A914-01	1N914	100V
D28	21A914-01	1N914	100V
D29	21A914-01	1N914	100V
F1	23-312-01	FUSE 2A SLO-BLO	
FC1	23-926-02	CLIP	
FC2	23-926-02	CLIP	
IC1	37-074-01	TL074	
IC2	37-532-01	NE5532	

NOTE: C2, C24, C31, C44 NOT USED

DESIGNATOR	PART #	DESCRIPTION	JACK	HEADER
J1	39-119-01	T/S		
J2	39-120-01	T/R/S		
J3	39-119-01	T/S		
J4	39-119-01	T/S		
J5	17-451-09	TUBE_SOCKET		
J6	17-451-09	TUBE_SOCKET		
J7	17-451-09	TUBE_SOCKET		
J8	17-450-04	8_PIN		
J9	17-450-04	8_PIN		
J10	17-836-01	TAB		
J11	17-894-01	TAB		
J12	17-894-01	TAB		
J13	17-894-01	TAB		
J14	17-894-01	TAB		
J15	17-894-01	TAB		
J16	17-894-01	TAB		
J17	17-836-01	TAB		
J18	17-836-01	TAB		
J19	17-894-01	TAB		
J20	17-894-01	TAB		
J21	17-894-01	TAB		
J22	17-894-01	TAB		
J23	17-320-05	TRANSCON		
J24	17-310-03	156		
J25	17-310-03	156		
J26	17-836-01	TAB		
J27	17-836-01	TAB		
J28	17-894-01	TAB		
J29	17-894-01	TAB		
J30	17-500-01	GNDLUG		
J31	39-119-01	T/S	JACK	
J32	17-894-01	TAB		
J33	17-894-01	TAB		
J34	17-894-01	TAB		
J35	17-894-01	TAB		
J36	17-500-01	GNDLUG		
K1	82-128-01	RELAY		
K2	82-128-01	RELAY		
P1	70-254-22	250KA		
P2	70-254-22	250KA		
P3	70-306-01	250KL		
P4	70-103-22	10KA		
P5	70-254-22	250KA		
P6	70-503-22	50KA		
P7	70-103-22	10KA		
Q1	96-176-01	J176		
Q2	96-112-01	J112		
Q3	96-006-01	MPSA06		
Q4	96-056-01	MPSA56		
Q5	96-112-01	J112		
R1	77-224-02	221K	1%	1/2W
R2	77-105-02	1M		1/2W
R3	77-152-02	1.5K		1/2W
R4	77-224-02	221K		1/2W
R5	77-103-02	10K		1/2W
R6	77-224-02	221K		1/2W
R7	77-152-02	1.5K		1/2W
R8	77-104-02	100K		1/2W
R9	77-104-02	100K		1/2W
R10	77-474-02	475K		1/2W
R11	77-224-02	221K		1/2W
R12	77-152-02	1.5K		1/2W
R13	77-335-01	3.3M		1/2W
R14	77-474-02	475K		1/2W
R15	77-223-02	22.1K	1%	1/2W
R16	77-152-02	1.5K		1/2W
R17	77-224-02	221K		1/2W
R18	77-473-02	47.5K		1/2W
R19	77-224-02	221K		1/2W
R20	77-223-02	22.1K	1%	1/2W
R21	78-103-02	10K		2W

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) FOR PROPER JUMPER PART #, SEE SYSTEM BOM
- 4) INSTALL JW48-51 ONLY IF J30 & J36 ARE NOT USED. JW48-51 MUST BE 76-000-05 JUMPERS ONLY TO CONNECT GND.
- 5) INSTALL J30 & J36 ONLY IF JW48-51 ARE NOT USED.

DESIGNATOR	PART #	DESCRIPTION	1%	1/2W
R22	76-152-01	1.5K		
R23	76-471-01	470		
R24	76-224-01	220K		
R25	76-102-01	1K		
R26	76-103-01	10K		
R27	77-223-02	22.1K	1%	1/2W
R28	77-105-02	1M	1%	1/2W
R29	76-220-01	22		
R30	76-472-01	4.7K		
R31	76-223-01	22K		
R32	76-222-01	2.2K		
R33	76-473-01	47K		
R34	77-105-02	1M	1%	1/2W
R35	77-105-02	1M		1/2W
R36	77-471-02	475		1/2W
R37	77-823-02	82.5K		1/2W
R38	77-104-02	100K		1/2W
R39	77-224-02	221K		1/2W
R40	77-224-02	221K		1/2W
R41	77-152-02	1.5K		1/2W
R42	77-152-02	1.5K	1%	1/2W
R43	78-103-02	10K		2W
R44	78-471-05	470		5W
R45	78-471-05	470		5W
R46	78-471-02	470	METAL OXIDE	5W
R47	77-152-01	1.5K		1/2W
R48	76-473-01	47K		
R49	76-101-01	100		
R50	76-473-01	47K		
R51	76-473-01	47K		
R52	76-474-01	470K		
R53	76-474-01	470K		
R54	76-472-01	4.7K		
R55	76-472-01	4.7K		
R56	78-154-02	150K		2W
R57	76-471-01	470		
R58	76-471-01	470		
R59	76-273-01	27K		
R60	77-473-02	47.5K	1%	1/2W
R61	77-473-02	47.5K	1%	1/2W
R62	77-335-01	3.3M	1%	1/2W
R63	76-471-01	470		
R64	76-101-01	100		
R65	76-101-01	100		
R66	77-823-02	82.5K	1%	1/2W
R67	76-100-01	10		
R68	76-103-01	10K		
R69	76-105-01	1M		
R70	77-152-01	1.5K		1/2W
R71	77-152-01	1.5K		1/2W
R72	76-333-01	33K		
R73	76-333-01	33K		
R74	76-103-01	10K		
R75	76-104-01	100K		
R76	76-102-01	1K		
RC1	99-124-02	12 PIN 3"		RIBBON CABLE
RC2	99-124-02	12 PIN 3"		RIBBON CABLE
RC3	99-124-01	8 PIN 3"		RIBBON CABLE
JW1-47	76-000-XX	JUMPER		SEE NOTE 3.
JW48-51	76-000-05	JUMPER		SEE NOTE 4.
JW52	76-000-XX	JUMPER		SEE NOTE 3.

SEE SHEET 1 FOR REV HISTORY

SIGNATURES:		DATE:		11880 BORMAN DR. ST. LOUIS, MISSOURI 63146	
DRAWN:	REM	03/08/95			
CHK'D:	OK	03/08/95	PROJECT NAME:		
APP'D:	OK	03/08/95	R-12R,R-212R,R-50H		
ORIGINAL ISSUED:		03/08/95	DRAWING NAME:		
PLOT DATE:		09/18/98	PC BOARD PICTORIAL		
PLOT TIME:		14:17:06	DRAWING NO. 07P278-01		REV. 10
FILE NAME:		27801PK_	SCALE: NTS	SHEET: 2 OF 2	



R-12R

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Guitar Amplifier PCB Layout and Parts List

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