

~ 1965 VOX Berkeley Super Reverb ~

- Owners Manual -



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Warnings – Dos and Don'ts

- Always use, and fully tighten, the head clamp to the trolley so the head doesn't slide off.
- Always plug in the speaker cable at each end before plugging in AC power cord.
- Never turn on any tube Amp unless the speaker cable is hooked up; If you don't, you'll blow the output section of the AMP. (This includes combos too.)
- To unplug the speaker cable, slide the blue release, on the XLR connector, away from you.
- Don't pick up the speaker cabinet by the top of the trolley. (The chrome stand) The trolley is designed to come apart just above the hand nuts.
- To remove trolley:
 - 1 – Remove Amp Head, and loosen the trolley's hand nuts a little.
 - 2 – Pull up on one side of trolley, and pull that side along the bottom half with the top half down even to where it was, but along side.
 - 3 – Pull up on the other side to remove top half of trolley.
 - 4 – Put speaker cabinet on chair, and remove hand nuts and remove lower trolleys. When reassembling, always put the brown face of the large washers, inside the hand nuts, towards the speaker cabinet.

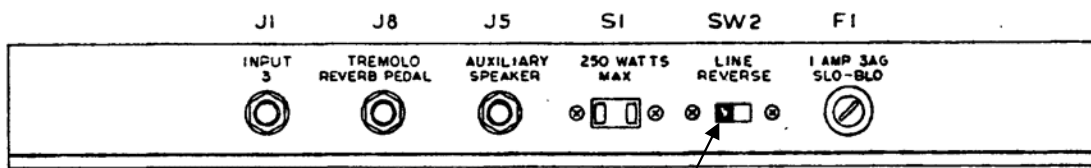
WARNING READ CAREFULLY!!!!

Older electrical equipment often has a HOT chassis with no modern AC Power plug. This means that it's possible to plug in the amp the wrong way and touch another electrical device, like your PA system, and get a belt of 110 Volts AC. I did this in the old days and saw blue lights before I passed out! After that, I always held the guitar strings with one hand, wet my finger a little, and then quickly taped the mike, or other equipment. Now days I use a volt meter.



The new power cords, with one prong larger than the other, prevents this. Your Amp has the original power cord; I put a white sticker on one side; always plug in the amp with the sticker UP as in the picture to the left. Also, always keep the polarity (Line Reverse) switch to the LEFT as shown below. If the power cord is replaced with a new one, the Line Reverse switch should have the unused lead cut off from the switch.

WARNING: Only a qualified technician should work on tube amps. The big can capacitor C-26, see page 3, is actually three Caps in one: C-26A = 270 Volts DC, C26B = 240 Volts DC, and C26C = 150 Volts DC. With the Amp off these caps stay charged which means that if you touch the terminals of C26 your guitar playen days are over. Note that these terminals run to every tube socket, and else ware, so you could get electrocuted there too. The first thing a tech does before working on an amp is to discharge these capacitors through a high power resistor, and then shunt all C26 terminals to ground; these pesky little devils have a way of recharging, memory, and still get ya.



ALWAYS KEEP LINE SWITCH SW-2 TO THE LEFT AS SHOWN

Warnings – Dos and Don'ts Cont.

- To remove the preamp shields, push up and turn clockwise.
- If you ever have a problem with any tube Amp, unplug it, let the tubes cool down, and reseal all the tubes. This is done by pushing up on the tube while rotating the bottom end. I had to do this with a new Fender Amp once. The tubes get unseated when set down hard. Some older Amps need their tube socket connectors closed up for a firmer grip the tube pins. Electrolytic caps are often replaced too; they looked good to me; no leakage, when I cleaned the Pots in January 2010.
- The Aux Speaker output can be used as an effects send if the proper voltage divider circuit is designed and used to get the 12 V down to 3 mV, the total resistance of the circuit should be 100K Ω . Any unused Input can be a return as long as it matches the guitar output voltage (3mV into 100K Ω). (Like a stomp box output) Let a qualified Tech do this for you!
- The foot switch jack (Tip) could be used as a dry effect send; again with the proper voltage divider circuit. Talk to your Tech about it.

~ Part Numbers and Other Information ~

Speakers:

Two 10" 16 Ohm Speakers Wired in Parallel (Total Impedance Together is 8 Ohms)

A Gold Decal on the back of both speakers has a Bulldog on top; the bottom of the decal reads:

VOX
Heavy Duty
Loud Speaker

Manufactured Under License
From Jennings Musical Industries, LTD
Darford Kent, England

Both Speaker Frames are Stamped with an Inspection Mark, P21AP and 7442.

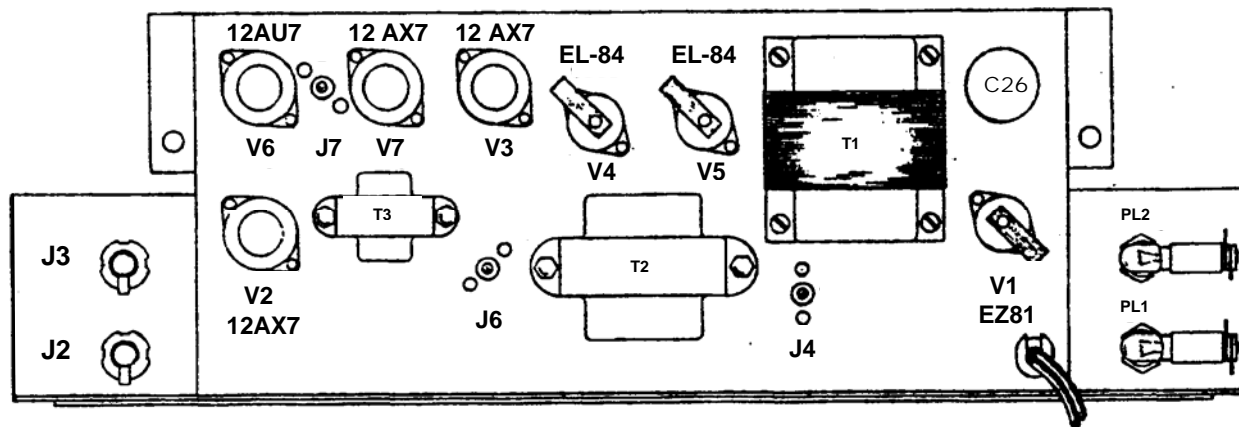
Amp Head:

17 Watt all tube Guitar Amp with Reverb and Tremolo. (Foot Switch Controlled)
(The original foot switch comes with the amp, along with the original cases and trolley.)

Two Guitar Inputs, Auxiliary Input, and Auxiliary Speaker Output (See page 4 and 5)

The Reverb Tank is marked: 23-5002-2 and 6610.

~ Mirror Image of Bottom View of Amp Chassis ~



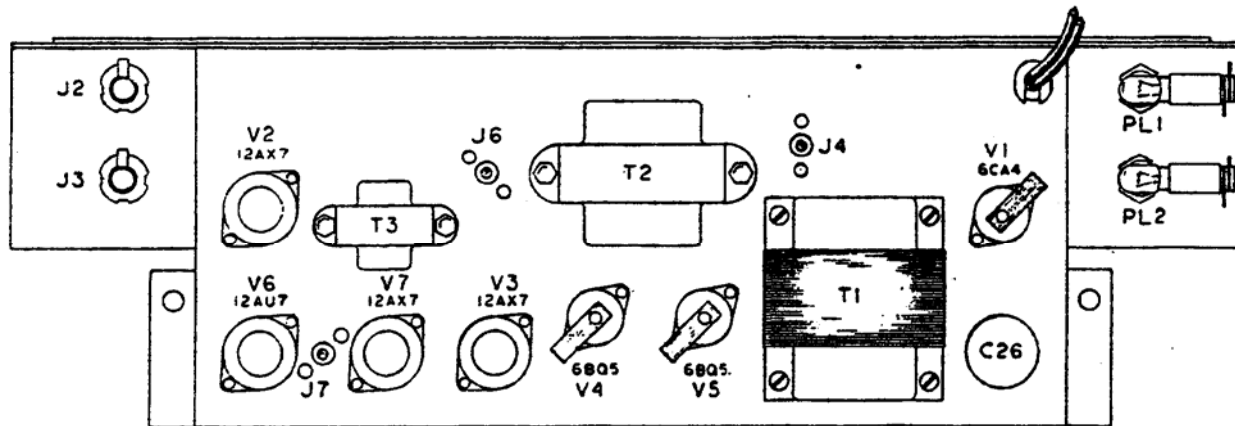
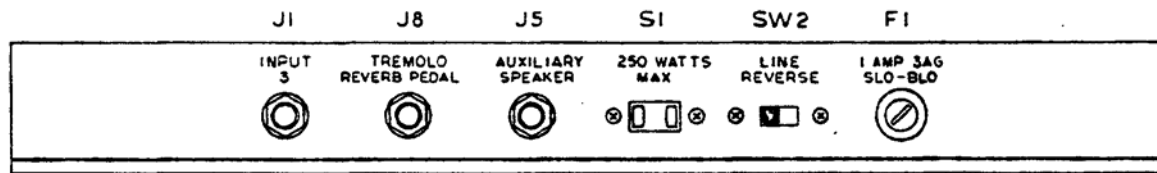
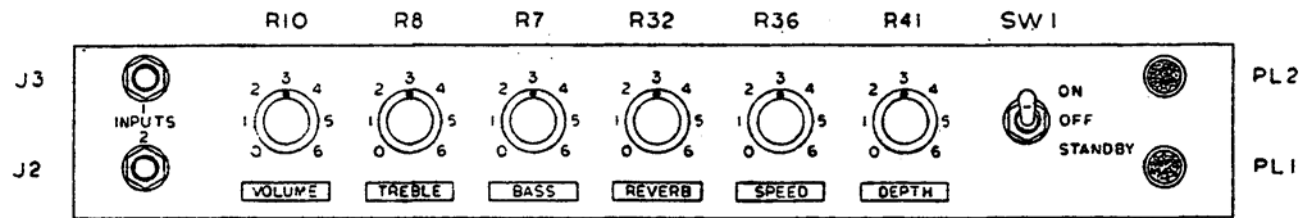
The tubes in this amp are listed in the table below. Note that America and Britten have their own tube designations i.e. the Brits call a 12AX7 an ECC83...

P/N	Tube used for:	American	British	MFG	Country
V1	Rectifier	6CA4	EZ81	Mullard	British
V2	First Pre-Amp/Volume Control	12AX7	ECC83	Electro Harmonics	British
V3	Second Pre-Amp/Tone Control	12AX7	ECC83	Sovtek	Russian
V4	Power Tube (Speakers)	6BQ5	EL-84	Sovtek	Russian
V5	Power Tube (Speakers)	6BQ5	EL-84	Sovtek	Russian
V6	Reverb Tank Input Pre-Amp	12AU7	ECC82	?	USA
V7	Reverb Tank Output Pre-Amp, and Tremolo	12AX7	ECC83	Sovtek	Russian

J4	Output to Speaker XLR Connector
J6	Output to Reverb Tank
J7	Input from Reverb Tank
T1	AC Power Transformer
T2	Speaker Transformer
T3	Reverb Input Transformer
C26	Can Cap for Power Supply (C26A, C26B and C26C)

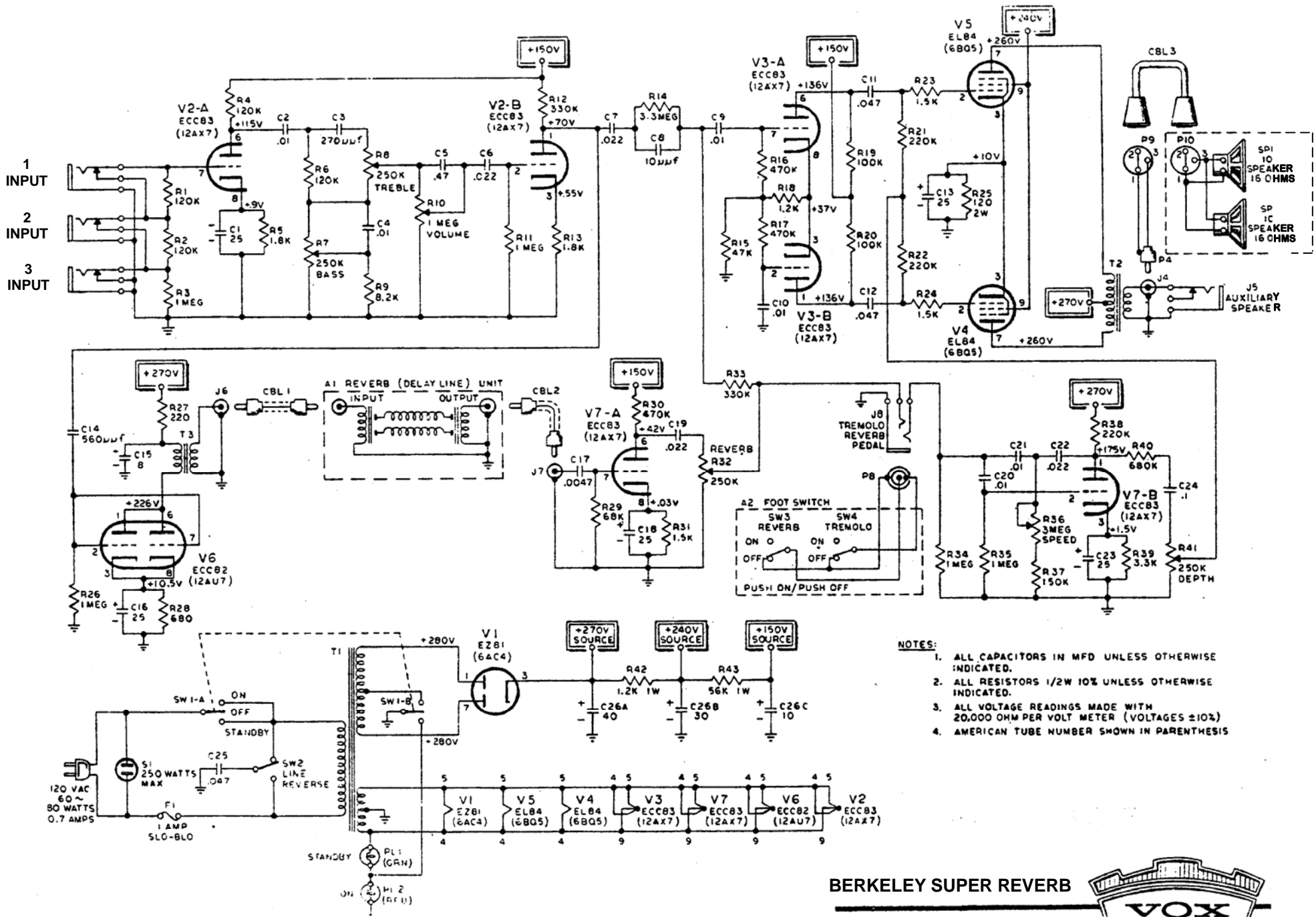
Note – When I bought the amp from the original owner it had the tubes listed below. These tubes come with the Amp – Some may be bad, Some may be good.

P/N	American	British	MFG	Country
V1	6CA4	EZ81	Sylvania	British
V2	12AX7	ECC83	Missing	?
V3	12AX7	ECC83	VOX	British
V4	6BQ5	EL-84	VOX	British
V4	6BQ5	EL-84	VOX	British
V6	12AU7	ECC82	VOX	British
V7	12AX7	ECC83	VOX	British



Note – Only use this view when the chassis is removed and turned over.

Use the view on page 3 when working on the amp with the chassis installed.



- NOTES:**
1. ALL CAPACITORS IN MFD UNLESS OTHERWISE INDICATED.
 2. ALL RESISTORS 1/2W 10% UNLESS OTHERWISE INDICATED.
 3. ALL VOLTAGE READINGS MADE WITH 20,000 OHM PER VOLT METER (VOLTAGES $\pm 10\%$)
 4. AMERICAN TUBE NUMBER SHOWN IN PARENTHESES

BERKELEY SUPER REVERB



REPLACEMENT PARTS LIST

Location	Part No.	Description
CAPACITORS		
C1-C16-C18-C23	18-5114-3	25 MFD 15V Electro.
C2-C4-C9-C10-C20-C21	20-8210-1	.01 MFD 400V 10%
C3	15-27111	270 MMFD 500V 10%
C5	15-47011	47 MMFD 500V 10%
C6-C7-C19-C22	20-8218-1	.022 MFD 400V 10%
C8	15-10011	10 MMFD 500V 10%
C11-C12	20-8276-1	.047 MFD 400V 20%
C13	18-5040-3	25 MFD 25V Electro.
C14	15-56111	560 MMFD 500V 10%
C15	18-5116-3	8 MFD 350V Electro.
C17	20-8206-1	.0047 MFD 400V 10%
C24	20-8284-1	.1 MFD 400V 20%
C25	20-5317-1	.047 MFD 600V 20%
C26	18-5070-3	40/30/10 MFD 350V Electro.
RESISTORS - All 1/2 W 10% Unless Otherwise Indicated		
R1-R2-R4-R6	60-12401	120 K Ohm
R3-R11-R26-R34-R35	60-10501	1 Meg Ohm
R5-R13	60-18201	1.8 K Ohm
R7-R8-R32	24-5173-3	250K Ohm Tone Control
R9	60-82201	8.2 K Ohm
R10	24-5172-3	1 Meg Ohm Volume Control
R12-R33	60-33401	330 K Ohm
R14	60-33501	3.3 Meg Ohm
R15	60-47301	47 K Ohm
R16-R17-R30	60-47401	470 K Ohm
R18	60-12201	1.2 K Ohm
R19-R20	60-10401	100 K Ohm
R21-R22-R38	60-22401	220 K Ohm
R23-R24-R31	60-15201	1.5 K Ohm
R25	60-12121	120 Ohm 2W 10%
R27	60-22101	220 Ohm
R28	60-68101	680 Ohm
R29	60-68301	68 K Ohm
R36	24-5174-3	3 Meg Ohm Tremolo Speed Control
R37	60-15401	150 K Ohm
R39	60-33201	3.3 K Ohm
R40	60-68401	680 K Ohm
R41	24-5175-3	250K Ohm Tremolo Depth Control
R42	60-12211	1.2 K Ohm 1W 10%
R43	60-56311	56 K Ohm 1W 10%
MISCELLANEOUS		
	22-310-0	Tube Retaining Spring
	23-5009-0	Line Cord
	40-5036-0	Control Panel Escutcheon
	40-5111-3	Control Panel

S1	45-5000-3	Accessory AC Socket
J8	45-5005-1	Tremolo-Reverb Pedal Jack
J1-J2-J3-J5	45-5006-1	Input Phono Jack
	45-5017-2	9 Pin Tube Socket (Shielded)
	45-5018-2	9 Pin Tube Socket
	45-5023-5	Fuse Holder
	52-5083-0	Chrome Knob
	52-5084-0	Aluminum Knob
	57-406861	Switch Mtg. Screw
SW2	69-5005-0	Line Reverse Switch
SW1	69-5181-0	On/Off Standby Switch
	71-5003-0	Tube Shield
T2	80-5045-1	Output Transformer
T3	80-5046-1	Delay Line Driver Transformer
T1	80-5048-6	Power Transformer
	84-16593	Pilot Light Assy. w/ Red Jewel
	84-16657	Pilot Light Assy. w/ Green Jewel
V2-V3-V7	85-5149	ECC83 12AX7 Tube
V4-V5	85-5150	EL84 6BQ5 Tube
V1	85-5152	EZ81 6CA4 Tube
V6	85-5153	ECC82 12AU7 Tube
PL2	89-5057	Pilot Light TS #1490
PL1	89-5058	Pilot Light TS #45

TREMOLO & REVERB PEDAL ASSEMBLY (84-16676)

	21-5033-1	Pedal Housing
	22-5033-2	Switch Mtg. Nut
	57-806228	Mtg. Screw
SW3-SW4	69-5193-0	Foot Switch
	84-16783	Bottom Plate & Tread Assy.
	84-16784	Cable & Plug Assy.

CABINET COMPONENTS

	21-5213-0	Amplifier Cabinet Back
	21-5214-0	Speaker Cabinet Back
	22-5071-0	Amplifier Cabinet to Stand Retainer
A1	23-5002-2	Reverb Delay Line
SP1-SP2	33-5068-6	10" Speaker, 16 Ohm
	40-5123-3	Front Trim Strip
P4	45-5000-0	Phono Plug
P9-P10	45-5044-3	Speaker Receptacle
	49-5202	Caster
	52-5085-0	Chrome Flange Knob
	57-612884	Delay Line Mtg. Screw
	57-614824	Back Mtg. Screw
	57-912023	Stand Mtg. Screw
	58-5116	Back Mtg. Washer
	77-5092-0	Spacer
	77-5093-0	Flange Spacer
	84-16792	Amplifier Cabinet Assembly
	84-16793	8" Speaker Cable Assembly
CBL3	84-16796	Speaker Cabinet Assembly
	84-16831	Mtg. Flange Assembly
	84-16989	Stand Assembly
CBL1	91-5216	38" #18 Stranded Wire
	45-5000-0	Phono Plug
CBL2	91-5400	22½" Shielded Wire
	45-5000-0	Phono Plug
	97-5052	Retainer Mtg. Wing Screw

38-5348-0

