



GAIN / OUTPUT			
FUNCTION	INPUT	FREQ.	SPEAKER OUTPUT TONE
CH1	8mV	1K	15VAC 8ohm ALL FULL
CH1	18mV	1K	40VAC 8ohm-EL34 ALL FULL
CH2	20mV	1K	52 VAC 8ohm - N/L ALL CENTER
CH2	.3mV	1K	DRIVE STARTS TO CLIP
REVERB REC.	18mV	1K	15VAC 8ohm NO LOAD-15dB @ 100Hz
REVERB DRIVE	20mV	1K	WITH 15VAC 8ohm N/L -14.2dB @ 100Hz
CH1 HI FREQ RISE (VOL1 @ 2)			ALL TONE FULL: 26dB
CH1 - VOL @ 2	26dB RISE FROM 1K TO 10K		ALL TONE FULL
	40dB RISE FROM 1K TO 10K		MIDS OFF - BASS TREBLE FULL
CH1 PRESENCE	9.5dB @ 10K 2.2K IN SERIES WITH .01 FEEDBACK		

- CHANGES FROM revH to rev I:
1. CHANGED PCB WIDTH TO STANDARD 6.175"
 2. ADDED BREAK-AWAY TO CONNECT POWER SWITCH AND AC RECEPTICAL
- CHANGES FROM revG to rev H:
1. CHANGED D100 POWER LED SUPPLY VOLTAGE PT.
- CHANGES FROM revF to rev G:
1. REMOVED R47, R48 LINKS.

Production Assembly Revision History

- (H) 1. Revised PCB to Rev (E). Fixed tube arc problem.
 2. Removed F2, Replaced F1, F3 with Fuse Link resistors.
 3. Changed phone jacks to Rean type.
- (I) 1. Revised GND pad J2-J5, SPK1, SPK2
 2. Added parallel spade connectors QC10, QC11
- (J) 1. Replaced all tube sockets with inverted BELTON sockets.
 2. Added C71 - 180pF in parallel with R71.
 3. Added R51, R52, C3 in preamp. R51, R52=0ohms, C3 N/U. JoeWmod.
- (K) 1. Replaced all tube sockets with inverted BELTON sockets.
 2. Reverb unit options available.
 3. Bias stable 120/240: Add C40, R47, - R39=47k7, R40=220k?
 4. Replaced all tube sockets with inverted BELTON sockets.

5. ADDED AS SECONDARY OPERATION.
4. ALL OPEN GROUNDS ARE (A), EXCEPT AS NOTED.
 3. ALL DIODES ARE TYPE 1N4003, EXCEPT AS NOTED.
 2. ALL CAPACITORS IN MICROFARADS, EXCEPT AS NOTED.
 1. ALL RESISTORS ARE 1/4W, EXCEPT AS NOTED.

NOTES UNLESS OTHERWISE SPECIFIED.

PROBLEM	INSPECTION FOR
BIAS SETS OK FOR POWER TUBES BUT CANT GET ANY SIGNAL FROM V5 TO V6	H2A-1&2 SOLDER BRIDGE
SQUARE WAVE OSCILLATOR AT SPKR OUTPUT	H2B-1&2 SOLDER BRIDGE
NO AMP FEEDBACK - EXTREME GAIN	H3A-1 TO 4 PIN 1&2 REVERSED OR
SELECT SWITCH DOES NOT WORK- NO VOLTAGE ON RELAY	H3B-1 TO 4 SOLDER BRIDGE

revL: swap tube V3.A-V3.B

12340 World Trade Drive
 San Diego, CA 92128
 (858) 487-1600
 FAX 521-6032

CARVIN

VINTAGE 50
 ALL TUBE GUITAR AMP

DRAWN BY: C. McEUEEN DATE: 2FEB94

APPROVED: DATE:

PCB NO: 30-77501 REV: L

ASSY. NO: 80-77501 REV: L

REVISED BY: E.PETERSEN DATE: 27SEP2010

GEORGE DREYER 20OCT07

Capacitor changes to correct for power amp oscillations:
 C34 changes from 56pF to 120pF
 C71 Added in Secondary across R71 value of 120pF