

### Production Assembly Revision History

- (B) Change all headers to type SHS.  
(C) Resistors R19, R20 from 5% to 1%.

5. ADDED AS SECONDARY OPERATION.  
4. ALL OPEN GROUNDS ARE , 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.

LAST USED LIST			
SYM	30-77201	30-77207	NOT USED
C	47	72	31
D	20	-	5,6
H	1,2,5	2	
J	1	4,5	
L	1	-	
P	11	-	
QC	1-11	50-54	52
R	53	71-72	31
S	-	-	
V	8	-	
B	1-28	-	

CARVIN

12340 WORLD TRADE DR.  
SAN DIEGO, CA 92128  
(619) 487-1600  
FAX 487-6629

VINTAGE 33

ALL TUBE GUITAR AMP

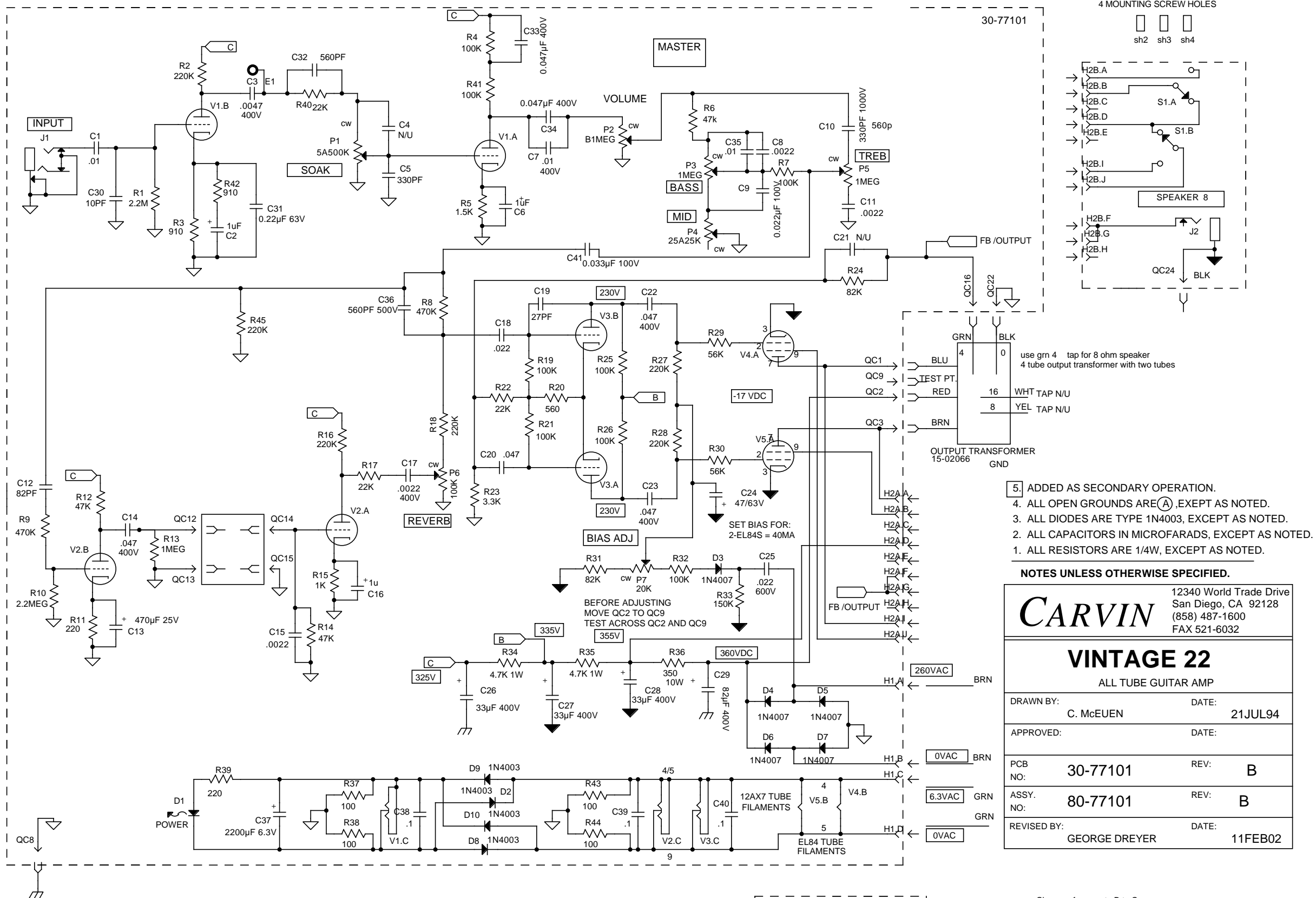
DRAWN BY: C. McEUEEN      DATE: 8APR94

APPROVED:      DATE:

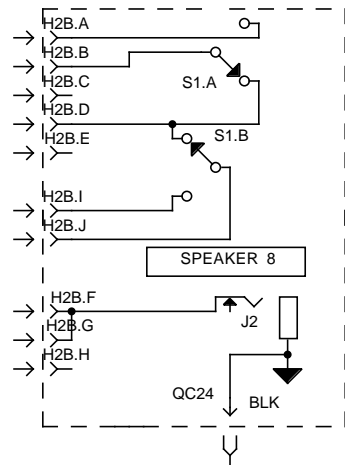
PCB NO: 30-77201      REV: C

ASSY. NO: 80-77201      REV: C

REVISED BY: C. McEUEEN      DATE: 20JUN96



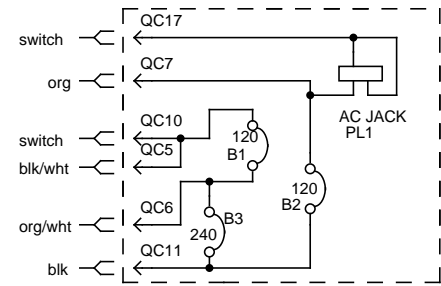
4 MOUNTING SCREW HOLES



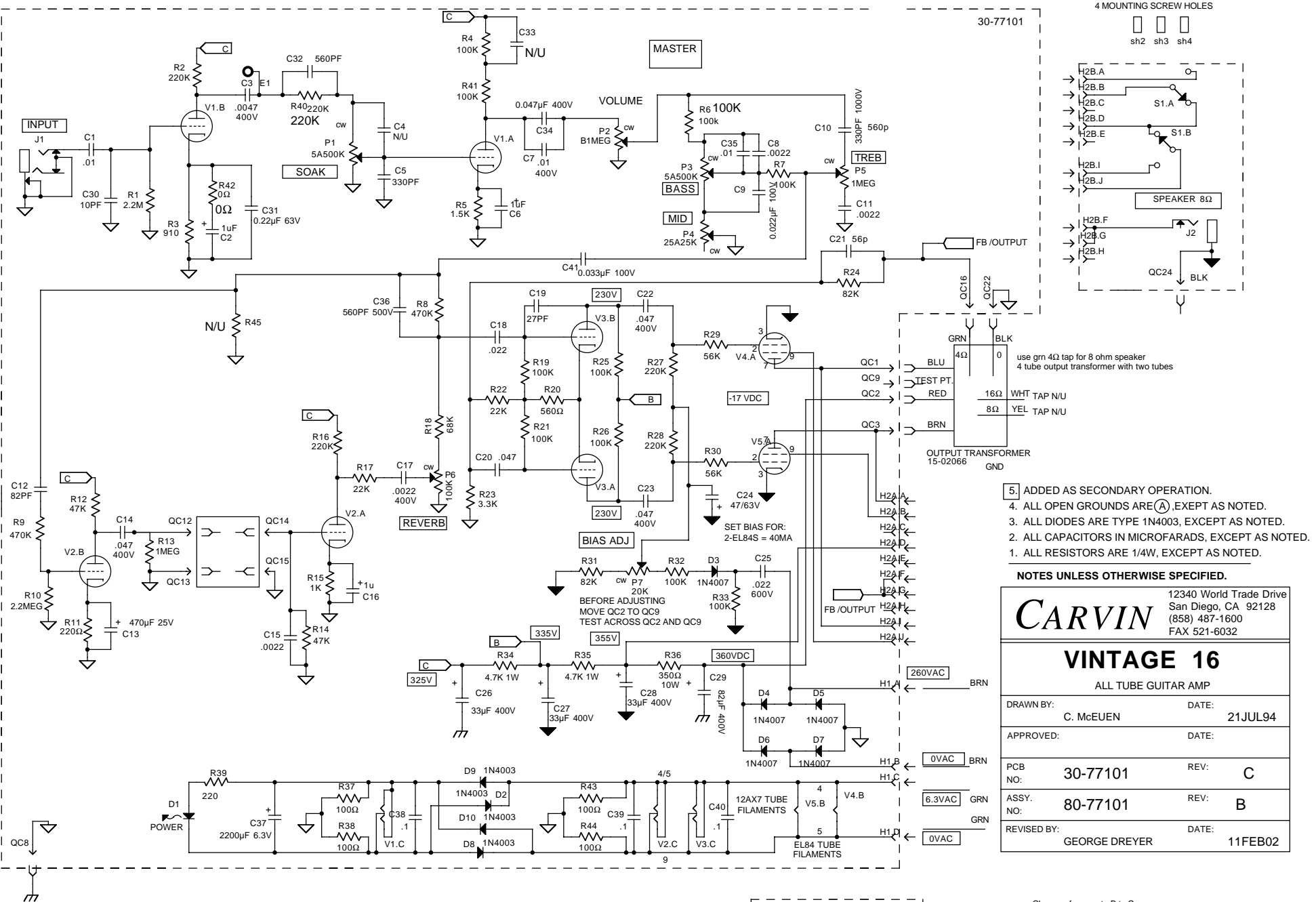
- 5. ADDED AS SECONDARY OPERATION.
- 4. ALL OPEN GROUNDS ARE (A), EXCEPT AS NOTED.
- 3. ALL DIODES ARE TYPE 1N4003, EXCEPT AS NOTED.
- 2. ALL CAPACITORS IN MICROFARADS, EXCEPT AS NOTED.
- 1. ALL RESISTORS ARE 1/4W, EXCEPT AS NOTED.

NOTES UNLESS OTHERWISE SPECIFIED.

<b>CARVIN</b>		12340 World Trade Drive San Diego, CA 92128 (858) 487-1600 FAX 521-6032	
<b>VINTAGE 22</b> ALL TUBE GUITAR AMP			
DRAWN BY: C. McEUN		DATE: 21JUL94	
APPROVED:		DATE:	
PCB NO: 30-77101		REV: B	
ASSY. NO: 80-77101		REV: B	
REVISED BY: GEORGE DREYER		DATE: 11FEB02	

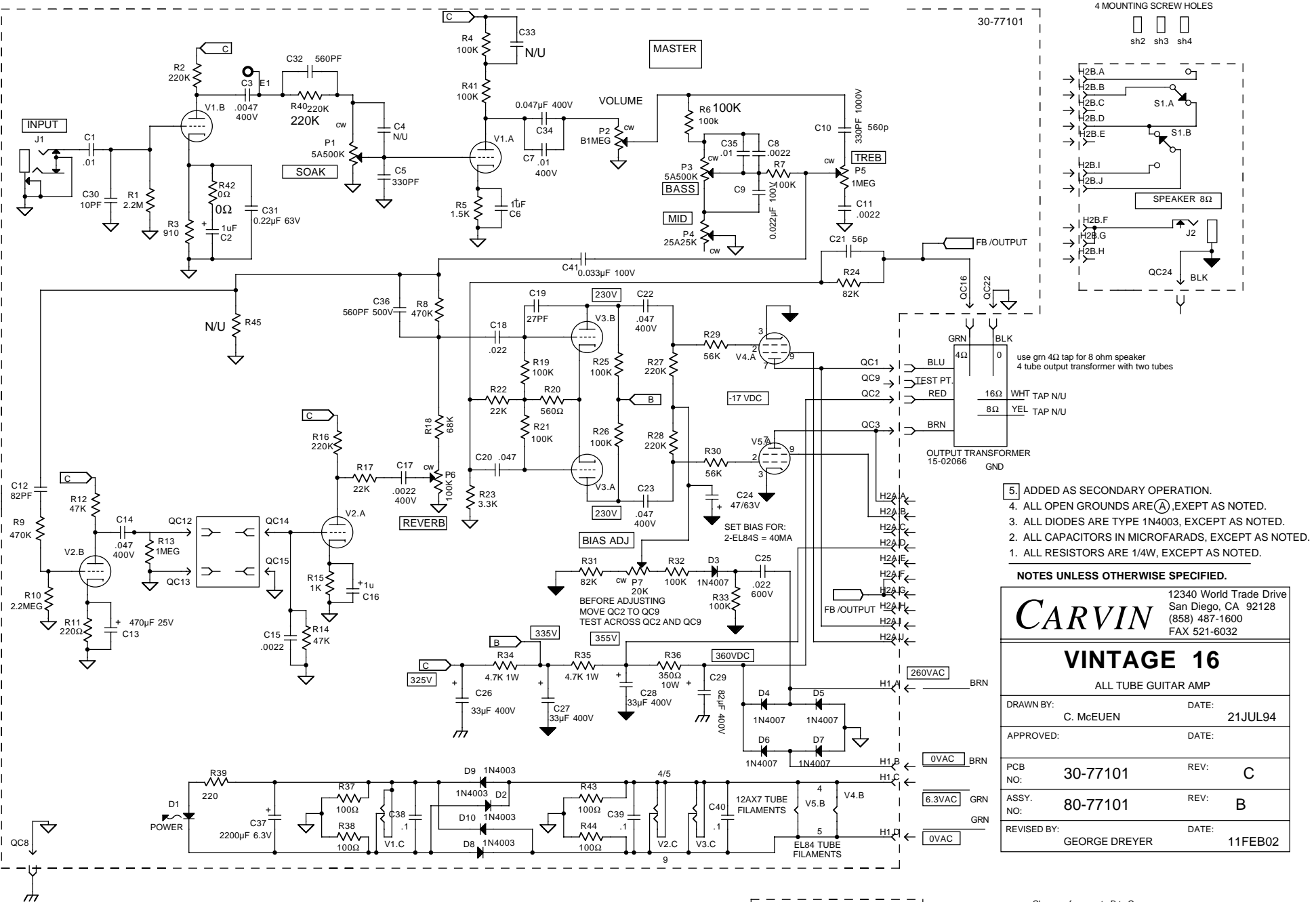


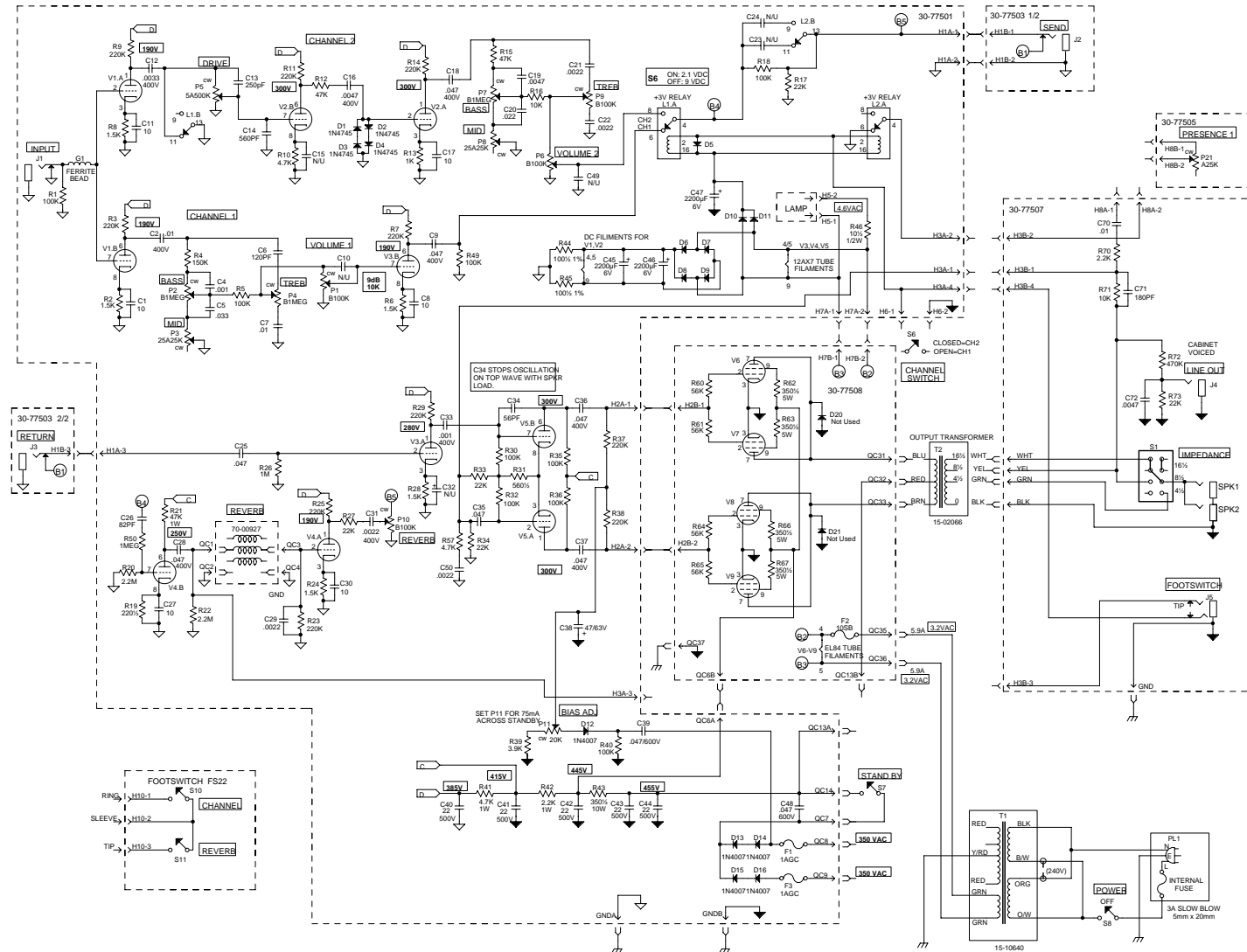
Changes from proto B to C











GAIN / OUTPUT				
FUNCTION	INPUT	FREQ.	SPEAKER OUTPUT	TOPE
CH1	8mV	1K	15VAC 8%	ALL FULL
CH1	18mV	1K	40VAC 8%-EL34	ALL FULL
CH2	20mV	1K	52 VAC 8% - NL	ALL CENTER
CH2	3mV	1K	DRIVE STARTS TO CLIP	
REVERB REC.	18mV	1K	15VAC 8% NO LOAD	-15dB @ 100 Hz
REVERB DRIVE	20mV	1K	WITH 15VAC 8% NL	-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			0.5dB @ 10K 2.2K IN SERIES WITH 01 FEEDBACK	

### Production Assembly Revision History

- (F) Change all headers to type GHS.  
(G) Resistors R44 R45 to 1%.
- S. ADDED AS SECONDARY OPERATION.  
4. ALL OPEN GROUNDS AND 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 H2A-142 CANT GET ANY SIGNAL FROM V5 TO V6-V8B-142	SOLDER BRIDGE
SQUARE WAVE OSCILLATOR AT SPKR OM2B-142	PIN 142 REVERSED
NO AMP FEEDBACK - EXTREME GAIN	H3A-1 TO 4
SELECT SWITCH DOES NOT WORK- NO VOLTAGE ON RELAY	H3B-1 TO 4

**CARVIN**

12340 WORLD TRADE DR.  
SAN DIEGO, CA 92128  
(619) 487-1600  
FAX: 487-6929

**VINTAGE 50**

ALL TUBE GUITAR AMP

DRAWN BY: C. McEuen

DATE: 2FEB94

APPROVED: C. McEuen

REV: D

PCB NO: 80-77501

REV: G

ASSY. NO: 80-77501

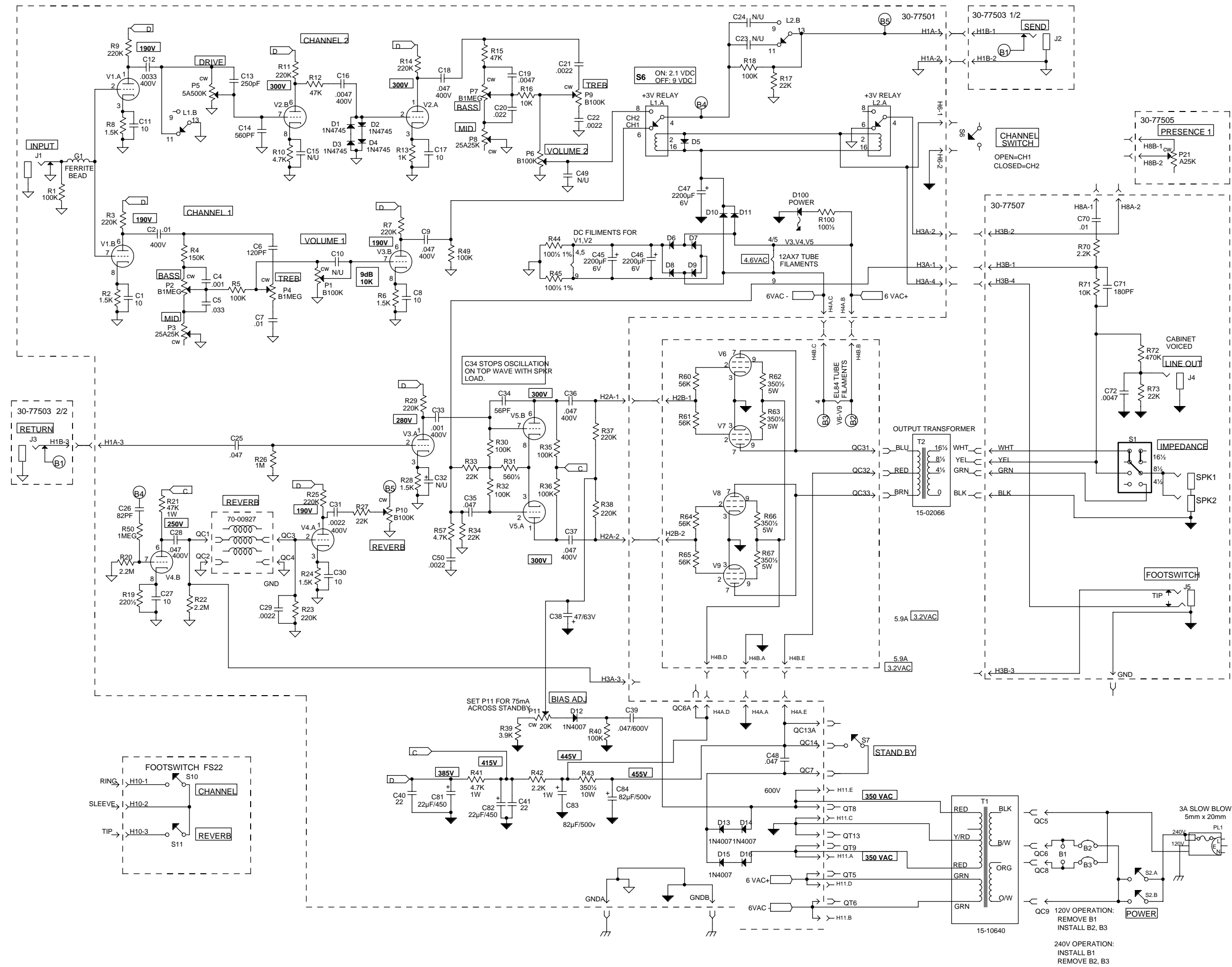
DATE: 20JUN96

REVISED BY: C. McEuen

DATE: 20JUN96

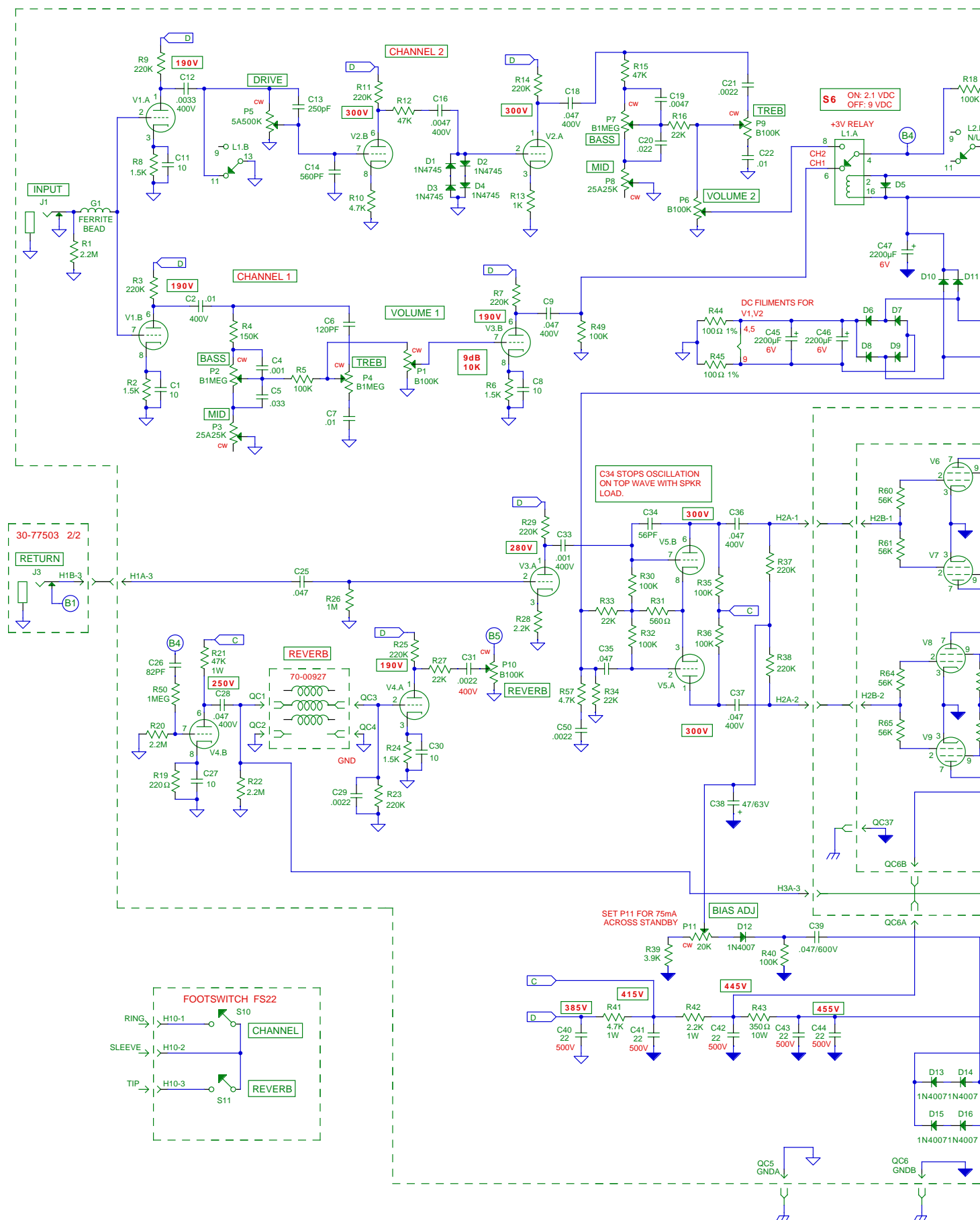
LAST USED LIST				
SYM	30-77501	30-77508	30-77507	ALL OTHERS
C	50	-	70-72	-
D	16	20.21	-	-
H	1-7	2.7	3.8	10
J	1	-	4.5	-
L	2	-	-	-
P	11	-	-	21
QC	1-14	31-37	-	-
R	1-50.57	60-67	70-73	-
S	-	-	1.2	5-8.10.11
V	5	6-9	-	-
B	1-37	50	-	-

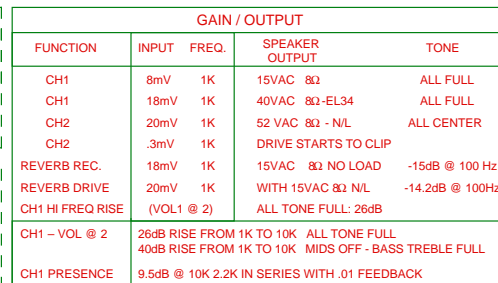













**(H1)**

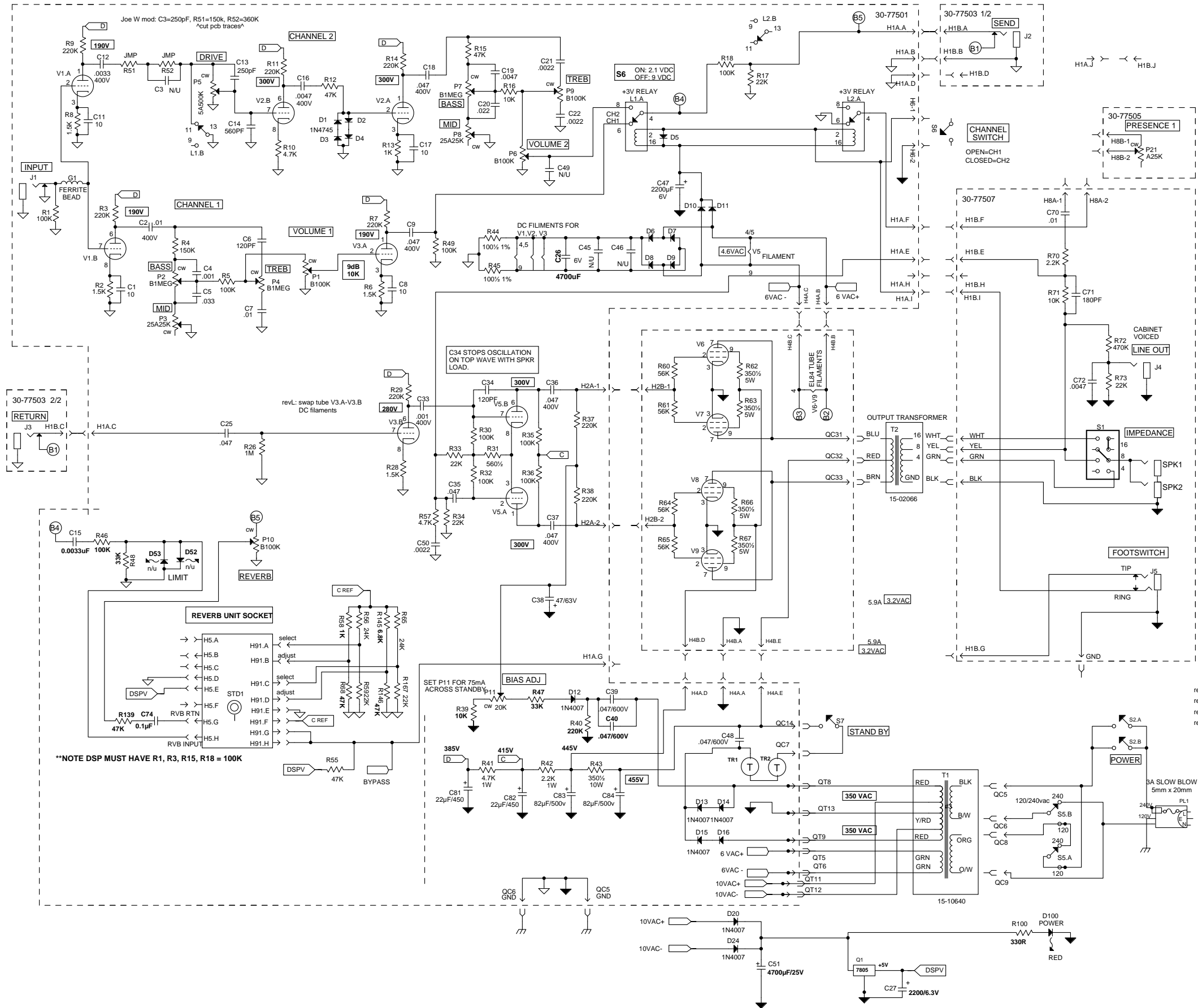
1. Change H3 to a 4 pin Header ribbon.
2. All PCB wire to get Spade Connects.
3. Remove all unused parts.

5. ADDED AS SECONDARY OPERATION.
4. ALL OPEN GROUNDS ARE 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-V9	H2A-1&2	SOLDER BRIDGE	
	H2B-1&2	SOLDER BRIDGE	
SQUARE WAVE OSCILLATOR AT SPKR OUT	H2B-1&2	PIN 1&2 REVERSED	
NO AMP FEEDBACK - EXTREME GAIN	H3A-1 TO 4	PIN 1 REVERSED OR	
SELECT SWITCH DOES NOT WORK- NO VOLTAGE ON RELAY	H3B-1 TO 4	SOLDER BRIDGE	

	12340 WORLD TRADE DR. SAN DIEGO, CA 92128 (619) 487-1600 FAX 487-6629	
	<h1>VINTAGE 50</h1>	
	ALL TUBE GUITAR AMP	
	DRAWN BY: C. McEuen	DATE: 2FEB94
APPROVED:	DATE:	
PCB NO: 30-77501	REV: E1	
ASSY. NO: 80-77501	REV: H1	
REVISED BY: C. McEuen	DATE: 5DEC97	



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 @ 100 Hz	
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			

GEORGE DREYER 2OCT07  
Capacitor changes to correct for power amp oscillations:  
C34 changes from 56pF to 120pF  
C71 Added in Secondary across R71 value of 120pF

5. ADDED AS SECONDARY OPERATION.  
4. ALL OPEN GROUNDS ARE (A), EXCEPT AS NOTED.  
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NOTES UNLESS OTHERWISE SPECIFIED.

PROBLEM	INSPECTION FOR
BIAS SETS OK FOR POWER TUBES BUT CAN'T GET ANY SIGNAL FROM V5 TO V6-V9	H2A-1&2 SOLDER BRIDGE H2B-1&2 SOLDER BRIDGE
SQUARE WAVE OSCILLATOR AT SPKR OUT.	H2B-1&2 PIN 1&2 REVERSED
NO AMP FEEDBACK - EXTREME GAIN	H3A-1 TO 4 PIN 1 REVERSED OR SOLDER BRIDGE
SELECT SWITCH DOES NOT WORK- NO VOLTAGE ON RELAY	H3B- 1 TO 4

12340 World Trade Drive  
San Diego, CA 92128  
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## CARVIN

### VINTAGE 50

ALL TUBE GUITAR AMP

DRAWN BY: C. McEVEN DATE: 2FEB94

APPROVED: DATE:

PCB NO: 30-77501 REV: O

ASSY. NO: 80-77501 REV: O

REVISED BY: E.PETERSEN DATE: 15JUN2015