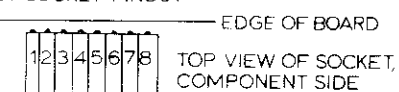


3. TEST SOCKET PINOUT



CHANNEL A—TPx
CHANNEL B—TPx

2. COMPONENT REFERENCE NUMBERS SERIES

CHANNEL A—1xx
CHANNEL B—2xx
COMMON ON BOTH CHANNELS—3xx

1. RESISTORS ARE $\frac{1}{4}$ WATT, $\pm 5\%$

NOTES—UNLESS OTHERWISE SPECIFIED

REV.	DESCRIPTION	DATE	CHK BY	APP BY
1	THAEDRA II HEAD AMP	10/1/71		
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			



THE GREAT AMERICAN SOUND COMPANY, INC.

20940 LASSEN STREET

CHATSWORTH, CALIFORNIA 91311

PHONE (213) 998-8100

THAEDRA HEAD AMP
SERVICE BULLETIN

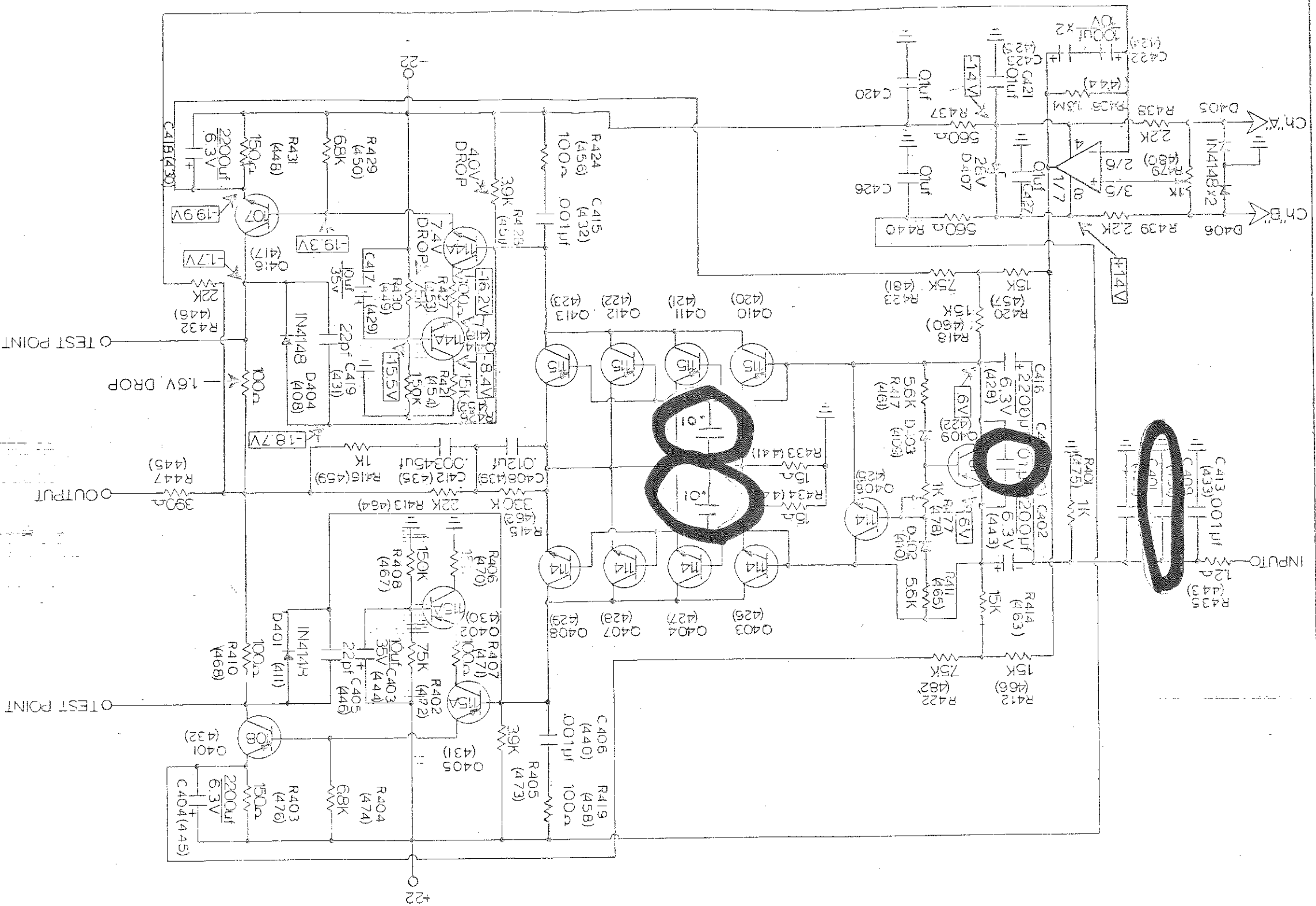
SUBJECT: R F INTERFERENCE

Field reports have indicated a percentage of moving coil cartridge users are experiencing RF or CB interference.

If you hear of such a problem from a Thaedra owner, the problem can be corrected by installing 8 - .01 mfd. at 50V disc capacitors to the foil side of the board.

There are two head amp board configurations, numbered 224 and 324, refer to appropriate pictorial for placement of capacitors.

Daniel Siefert
Director of Technical Services

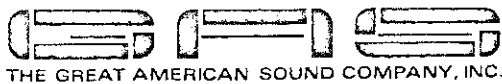


REV	DESCRIPTION	DATE	CHKD. BY	APP. BY
1	20440 LASSEN ST. CHATSWORTH, CALIF. U.S.A. 91311			
TELEPHONE (213) 590-8100				
TITLE HEAD AMP (THAEDRA)				
DRAWN BY				
CHKD. BY				
DATE				
REV				

THAEDRA HEAD AMP
SET-UP PROCEDURE
BOARD #334

1. Refer to pictorial #324-1 for location adjustments and test points.
2. Connect voltmeter to test points (TPA) and adjust potentiometer (AA) for 1.0 volts.
3. Connect voltmeter to test points (TPB) and adjust potentiometer (AB) for 1.0 volts.
4. Connect voltmeter to (TPC) and ground, adjust potentiometer (AC) for minimum reading on millivolt scale.
5. Connect voltmeter to (TPD) and ground, adjust potentiometer (AD) for minimum reading on millivolt scale.

Allow board to "cook" for minimum 30 minutes and repeat all above adjustments.

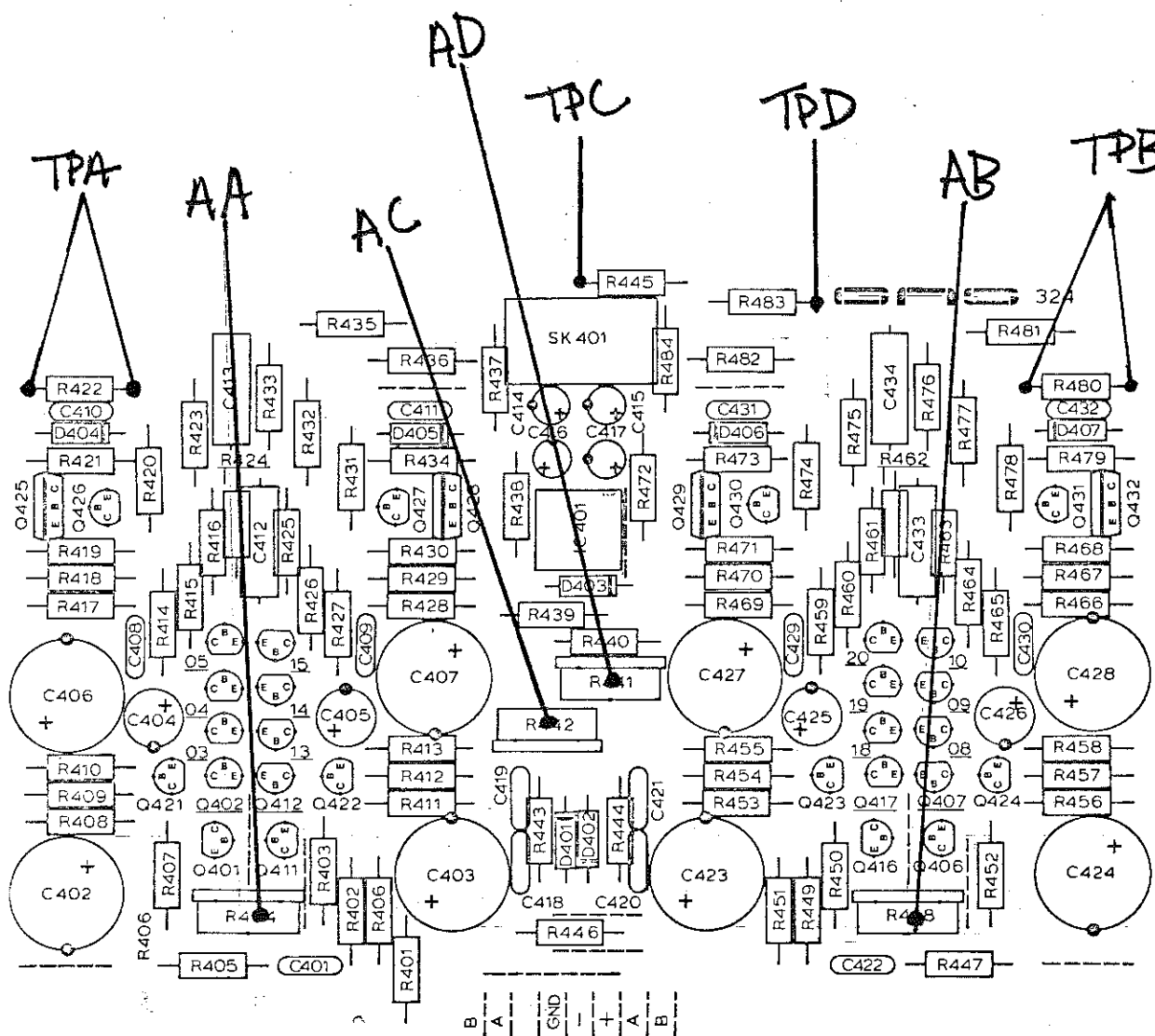


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20940 LASSEN STREET

CHATSWORTH, CALIFORNIA 91311

PHONE (213) 998-8100



THAEDRA HEAD AMP
SET-UP PROCEDURE
BOARD #324

1. Refer to pictorial #324-1 for location adjustments and test points.
2. Connect voltmeter to test points (TPA) and adjust potentiometer (AA) for 1.5 volts.
3. Connect voltmeter to test points (TPB) and adjust potentiometer (AB) for 1.5 volts.
4. Connect voltmeter to (TPC) and ground, adjust potentiometer (AC) for minimum reading on millivolt scale.
5. Connect voltmeter to (TPD) and ground, adjust potentiometer (AD) for minimum reading on millivolt scale.

Allow board to "cook" for minimum 30 minutes and repeat all above adjustments.



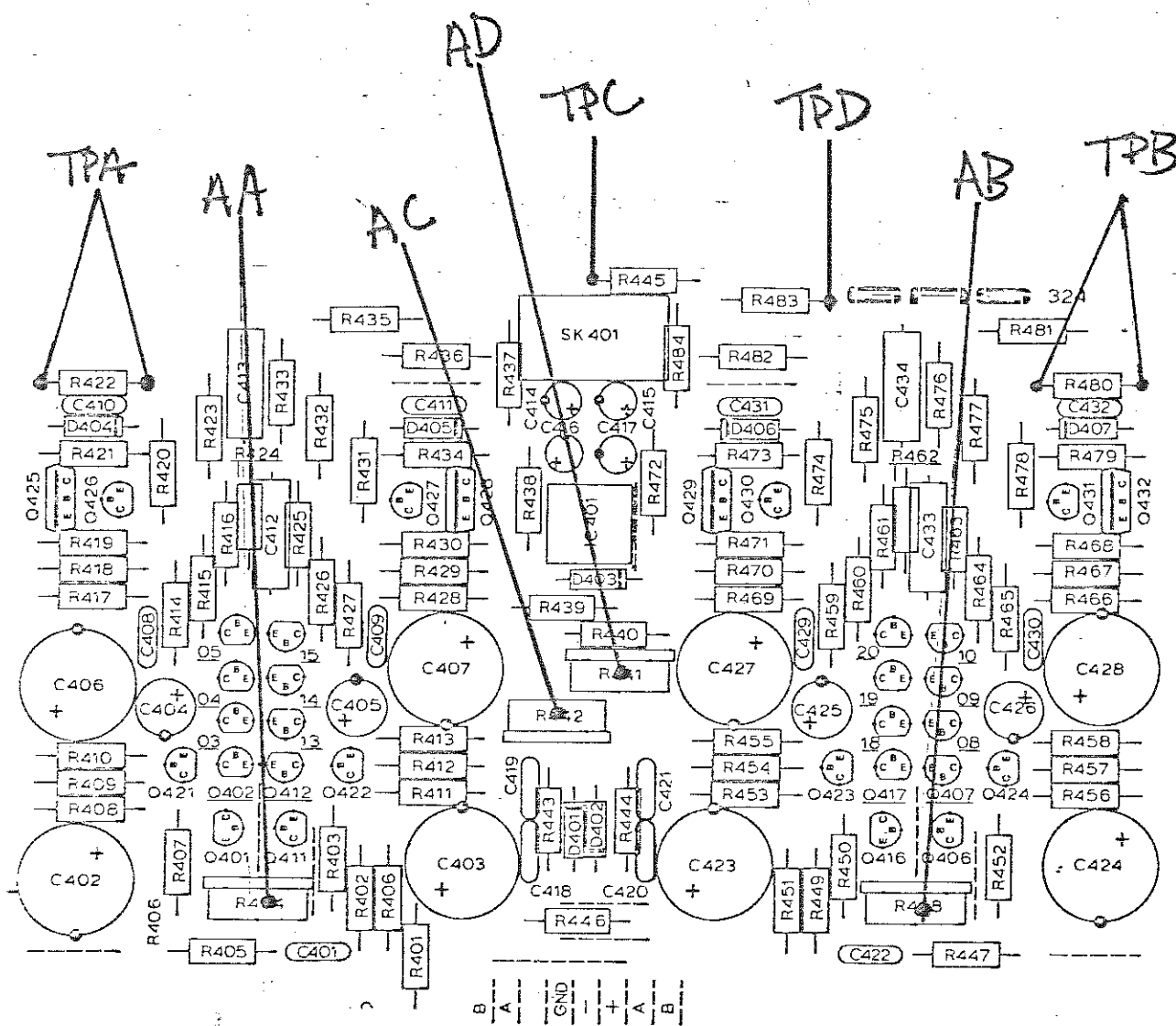
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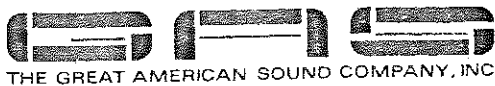
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324-1





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PHONE (213) 998-8100

HEAD AMP GAIN CHANGE

Thaedra Head Amp boards are designed for moving coil cartridges of all output levels. This can be accomplished easily with only a soldering iron. The Pictorials below will illustrate clearly the necessary changes. Refer to the list below for correct gain setting.

Denon - 12DB

EMT - 12DB

Fidelity Research - No Change

Nakamichi - 6DB

Ortofon - No Change

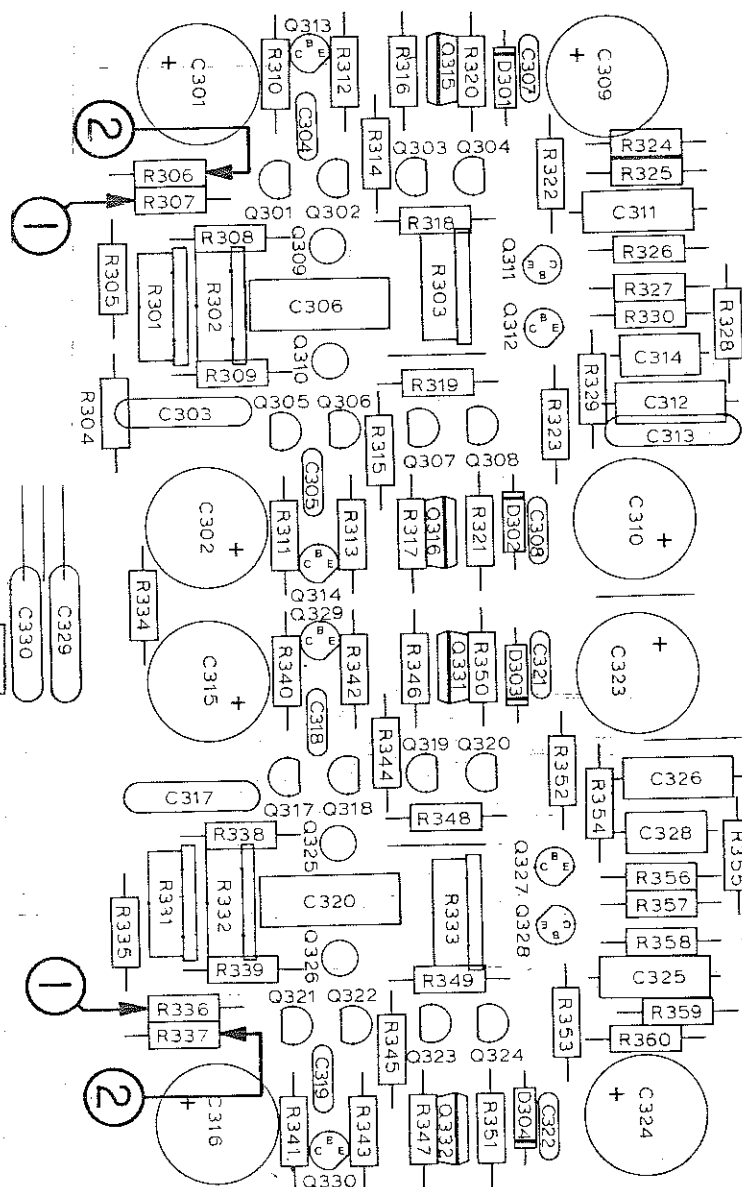
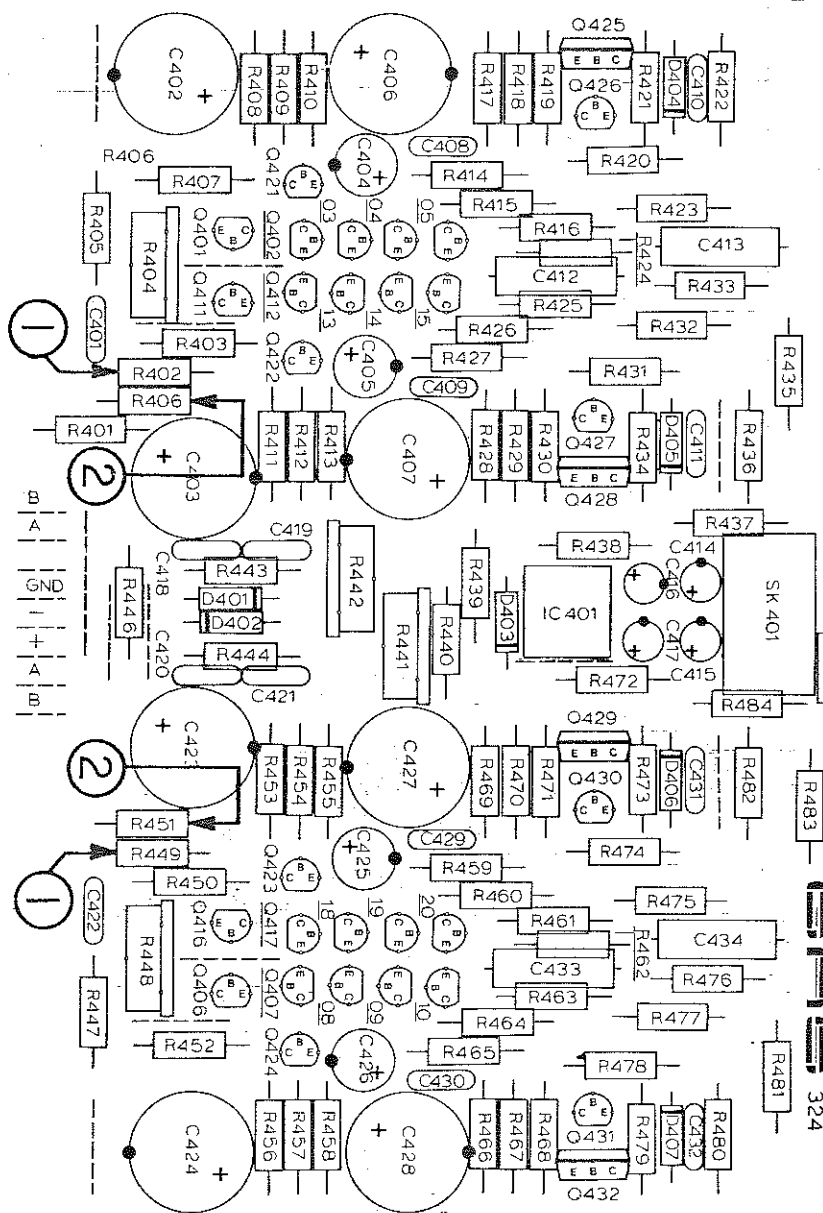
Supex - 6DB

Ultimo - 12DB

-6 DB raise point one (1) only

-12 DB raise point one (1) and two (2) and solder the loose end together.

These are 15 Ohm 2% resistors (Brown, green, black, red)



CHANGE DESCRIPTION REMOVE 2 (TWO) 51 OHM 1/4W 5% RESISTORS P/N 211051 (R132 & R19) AND REPLACE WITH 2 (TWO) 150 Ω 1/4W 5% RESISTORS P/N 211115

PARTS OBSOLETE & DISPOSITION NONE

COPIES

ENGINEERING APPROVAL *[Signature]*

PURCHASING: *[Signature]*

INVENTORY: *[Signature]*

SERVICE: *[Signature]*

OTHER:

COPIES
MANAGEMENT: Bon Fischer
PRODUCTION: [Signature]
MATL CONTROL: [Signature]
DRAFTING: Sam Burdick

DATE B-26-79 GAS ENGINEERING CHANGE ORDER NO. 353
 MODEL(S) AFFECTED GOULATH 2 HEAD PUMP INITIATED BY GARY MOULD / JIM
 PURPOSE OF CHANGE TO ELIMINATE EXCESSIVE HUM
AND NOISE, AND TO ALLOW UNIT TO MEET SPECS.

CHANGE DESCRIPTION SEE ATTACHED PAPER (PAGE 2)

(REMOVE)			PARTS TO BE CHANGED			(ADD)
QTY	DESCRIPTION	PART NO.	QTY	DESCRIPTION	PART NO.	
1	#20 Red wire 2 1/2"	962005	1	#20 VIO 1 BLK 2 1/2 TW PAIR	970014	
1	#20 VIO 6"	967020	2	1/4" ID ^{FIBER} ^{OUTSIDE} SHOLDER WASHER	771002	
1	#20 Red 4"	962010	2	1/4" ID SOLDER LUG	740006	
1	#20 VIO BLK ^{7 1/4"} T.P.	970009	2	1/4" ID ^{STAR WASHER} ^{INPUT JACK WASHER}	770013	
			2	1/4-32 x 3/8 HEX NUT	760009	
			1	#20 BLK WIRE 5 1/2"	960015	
			2	1/4" ID ^{INSIDE} FIBER WASHER	780003	
			1	#20 Red/BLK 7 1/4" T.P.	970015	
			1	#20 VIO 4"	967010	
			1	#20 Red 5 1/2"	762017	

PARTS OBSOLETE & DISPOSITION NONE

SCHEDULING OF CHANGE OVER (CODE LETTER) [A] ALL UNITS IN
HOUSE PACKED OR PARTIALY ASSEMBLED

SERIAL NUMBER EFFECTIVITY (IF NEEDED) SERIAL #

COPIES

ENGINEERING APPROVAL [Signature]PURCHASING: [Signature]INVENTORY: [Signature]SERVICE: [Signature]OTHER:

COPIES

MANAGEMENT: [Signature]PRODUCTION: [Signature]MATL CONTROL: [Signature]DRAFTING: [Signature]

1ST THE INPUT JACKS WILL BE INSULATED FROM CHASSIS GROUND USING THE SAME MATERIALS AND METHODS AS THAEDA AND THEOBE. THE INPUT JACK MOUNTING HOLE WILL BE ENLARGED TO $\frac{5}{16}$ " OF AN INCH.

2ND A NEW TWISTED PAIR P/N 970014 CONSISTING OF ONE #20 VIO $2\frac{1}{2}$ " WIRE ASSY P/N 967005 AND A NEW WIRE ASSY #20 3" BLACK WIRE ASSY P/N 960007 WILL REPLACE THE #20 RED $2\frac{1}{2}$ " WIRE ASSY P/N 962005

3RD A NEW TWISTED PAIR P/N 970015 CONSISTING OF ONE #20 RED $7\frac{1}{4}$ " WIRE ASSY P/N 962020 AND ONE #20 BLACK $7\frac{1}{4}$ " WIRE ASSY P/N 960020 WILL REPLACE THE VIO/BLK $7\frac{1}{4}$ " TWISTED PAIR P/N 970009

4TH TO STANDARDIZE ALL SIGNAL WIRES, VIO. WIRES WILL BE USED IN CHANNEL A AND RED WIRES WILL BE USED IN CHANNEL B. FOR GOLIATH AFTER THE INPUT TWISTED PAIRS HAVE BEEN INSTALLED THE OUTPUT WIRE MUST BE CHANGED ALSO. THE ^{#20} RED 4" WIRE ASSY P/N 962010 WILL BE CHANGED TO A #20 VIO 4" WIRE ASSY P/N 967010. THE #20 VIO 6" WIRE ASSY ^{P/N 967020} WILL BE CHANGED

TO A NEW WIRE ASSY, #20 RED $5\frac{1}{2}$ " WIRE ASSY P/N 962017

5TH THE NEWLY INSTALLED RED/BLK TWISTED PAIR WILL HAVE THE BLACK WIRE SOLDERED TO THE CHANNEL B INPUT ^{JACK} SOLDER LUG AND WILL NO LONGER BE SOLDERED TO THE GROUNDING POST P/N 630003 ON THE REAR PANEL ASSY.

6TH THE POWER CABLE ASSY P/N 950609 WILL
HAVE A ^{#20} BLACK 5 1/2" WIRE ASSY P/N 960015 CRIMPED
IN WITH THE POWER CABLE ASSEMBLY'S SHEILD.....
IN ITS .110" SLIP ON TERMINAL.