

# ERT

## SERVICE CHART

### 2101

# ALBA

## UA700/700A

### Stereo amplifiers

THE Alba Models UA700/700A are stereo high fidelity audio amplifiers with a power output of 15 watts per channel. There is a wide range of push button selected inputs available. The models are identical except in external appearance.

**Power Supply**  
240V 50Hz AC

**Fuses**  
FS1 150ma (Anti-surge)  
FS2 Heat Fuse Philips 312210425061

**Lamps**  
Indicator 6.3V 0.115A

**Transistors**

TR1	BC159C
TR2	BC159
TR3	BC149
TR4	BC148
TR5	BC159
TR6	BC149
TR7	BC158
TR8	BC148
TR9	BD131
TR10	BD132

**Diode**  
ZD1 Zener BZX61 C20

**Rectifier**  
D150 Selenium bridge power rectifier

**Inputs**  
Microphone—2.3mV 50K  
Aux. (High)—2V 3M Max. input 20V.  
Aux. 375mV, 500K, Max. input 4V.  
Tuner. 100mV, 150K, Max. input 1.2V  
Pick-up (Magnetic) 5mV 50K.  
Pick-up (Ceramic) 60mV capacitive.

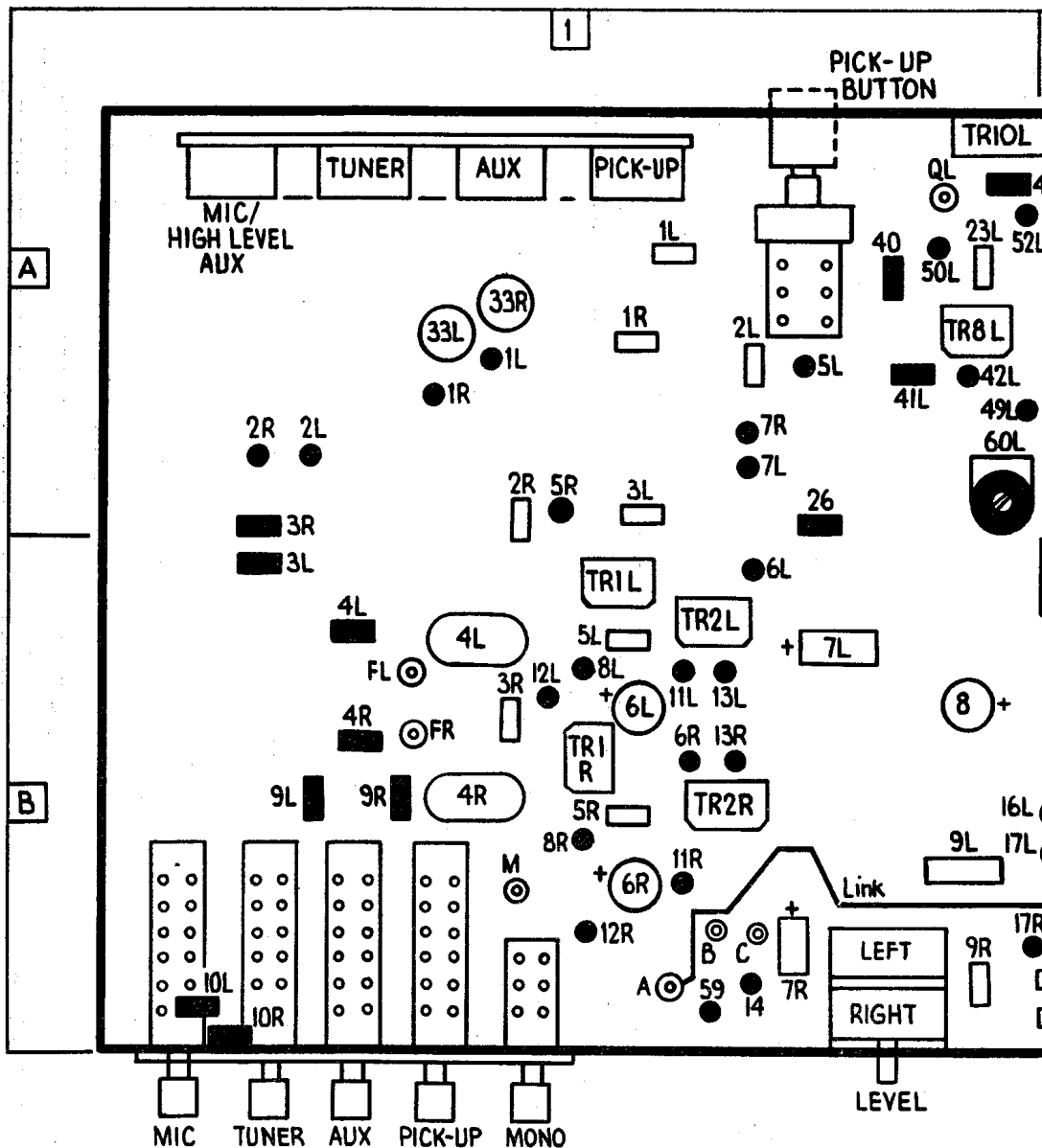
**Output**  
15W per channel (22 per cent duty cycle)  
20W per channel I.H.F. music power rating

**Frequency response**  
30Hz-18kHz

**Controls**  
Level (10K Log)  
Loudness (100K Log)  
Balance (50K S/Law)  
Treble (500K Lin)  
Bass (1M Lin)

**Manufacturer**  
Alba (Radio & Television) Limited, Bull Lane, Edmonton, London N18 1SG. 01-803 4451.

**Service Department**  
As above.



### Adjustments

Before operating the UA700/700A it is necessary to adjust the quiescent current of the output transistors.

Connect a 8ohm dummy load to the right hand speaker socket. Connect a scope across this load. Set the scope amplifier to the most sensitive setting. Select CERAMIC on the pickup button and set the headphone switch to OUT. Select PICKUP and MONO on front push buttons. Set Loudness to maximum and other controls to their mid positions. Set R62 (right hand)

fully clockwise, viewed from above, and switch on amplifier.

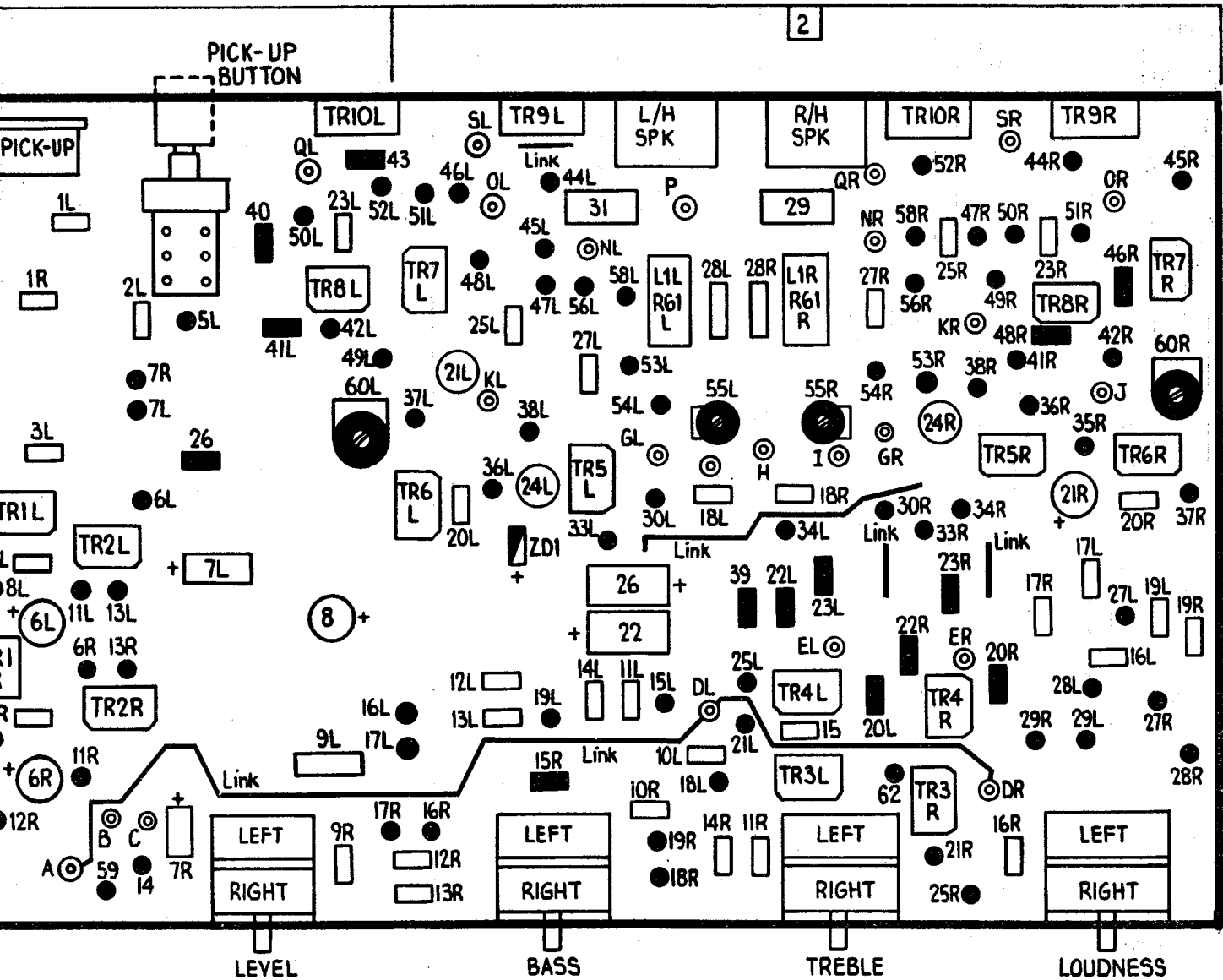
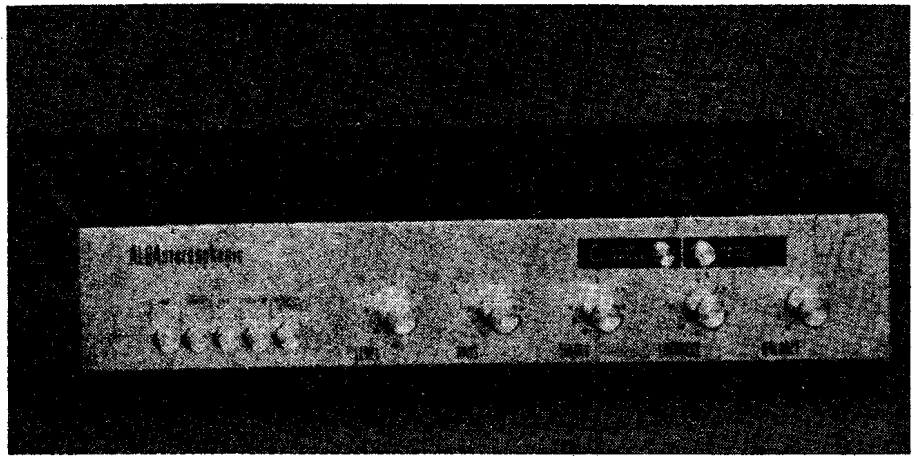
Apply a 10kHz signal to the pickup socket and adjust its amplitude to give a full screen trace on the scope. After the output transistors have reached thermal equilibrium, approximately 5-10 minutes, adjust R62 (right hand) so that the crossover distortion kink is just eliminated.

Do not go beyond this point.

Change dummy load to left hand channel speaker socket and repeat above procedure using R62 (left hand).

# 700A

## plifiers



clockwise, viewed from above, and  
 an amplifier.  
 a 10kHz signal to the pickup socket  
 just its amplitude to give a full  
 face on the scope. After the output  
 ers have reached thermal equilib-  
 approximately 5-10 minutes, adjust  
 (right hand) so that the crossover dis-  
 link is just eliminated.  
 t go beyond this point.  
 e dummy load to left hand channel  
 socket and repeat above procedure  
 2 (left hand).

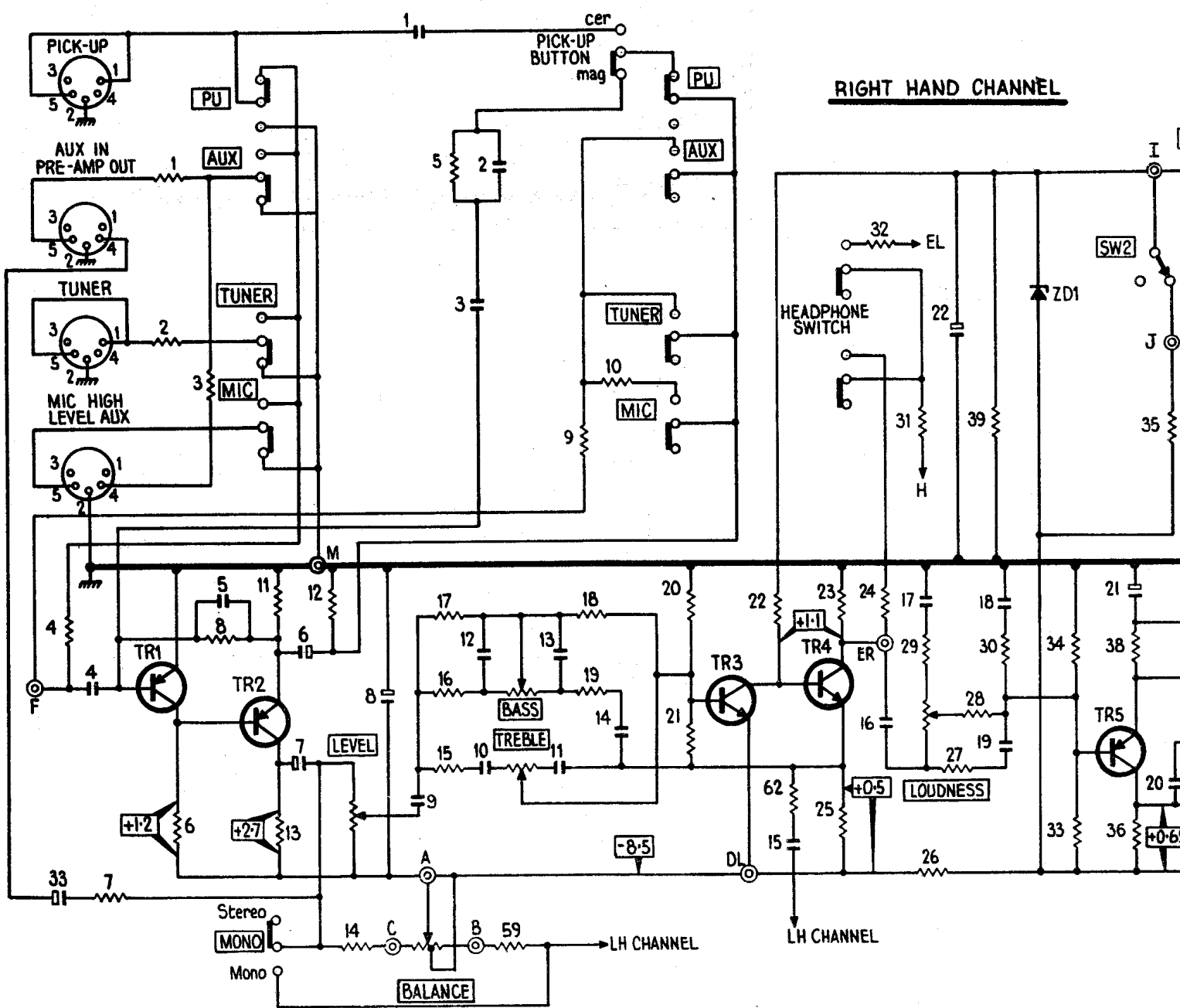
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R	4	7	1	6	3	8	11	12	14	15	17	5	9	18	10	20	22	23	32	31	27	39	34	38	35
C	33	4		5			6	7	8	9	1	3	10	2	13	14	15	16	17	22	18	19		21	20



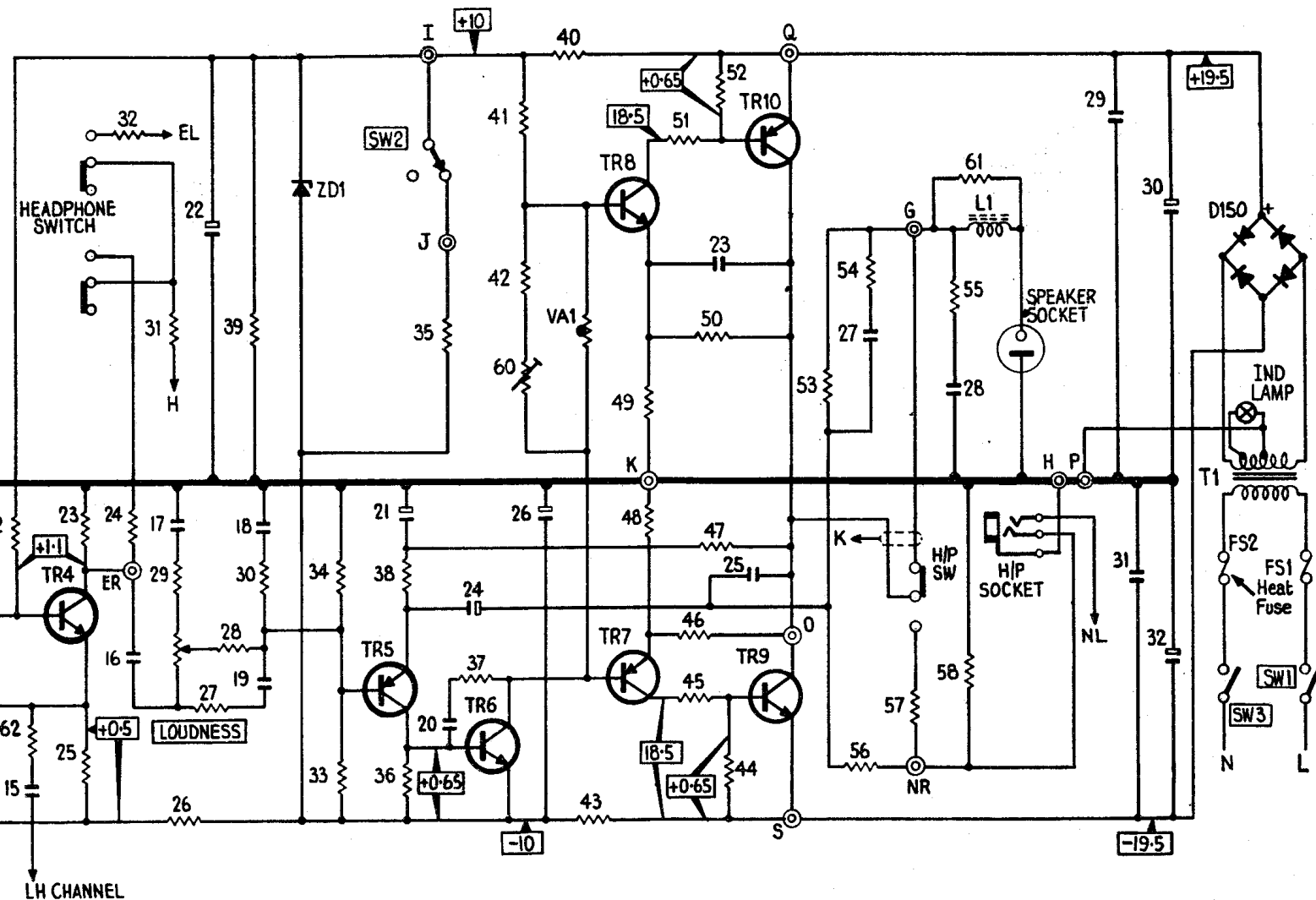
RESISTORS		R26		R50		R13		R46		C10	
<b>Right Hand Channel</b>		330	B1	330	A2	10K	B1	330	A2	680p	
R1	470K A1	(Common)		180	A2	8K2	B2	4K7	A2	680p	
R2	100K A1	R27	150K B2	680	A2	47K	B2	33	A2	5n	
R3	3M3 A1	R28	1K B2	4K7	A2	470K	B2	33	A1	5n	
R4	47K B1	R29	330 B2	220	A2	39K	B2	330	A1	100n	
R5	68K A1	R30	22K B2	10 1/2W	A2	47K	B2	180	A2	250p	
R6	220K B1	R31	680 —	680	A2	22M	B2	680	A1	(Co	
R7	47K A1	R32	1K B2	33 1/2W	—	560K	B2	4K7	A2	C16	
R8	1M B1	R33	22M B2	22 1/2W	A2	270K	B2	220	A2	C17	
R9	18K B1	R34	180K B2	3K3	B1	10K	B2	10 1/2W	A2	C18	
R10	470K B1	R35	470 A2	(Common)		1K	—	680	A2	C19	
R11	1K2 B1	R36	15K A2	R60	470 A2	1K	B2	33 1/2W	—	C20	
R12	820 B1	R37	470 B2	R61	10K 1/2W B2	150K	B2	22 1/2W	—	C21	
R13	10K B1	R38	120 A2	R62	10K B2	1K	B2	470	A1	400µ	
R14	3K3 B1	R39	3K9 B2	(Common)		330	B2	10K 1/2W	A2	(Co	
R15	8K2 B2	(Common)		<b>Left Hand Channel</b>		22K	B2			C23	
R16	47K B2	R40	330 A1	R1	470K A1	680	B2			C24	
R17	470K B1	(Common)		R2	100K A1	1K	—			C25	
R18	39K B2	R41	3K3 A2	R3	3M3 B1	22M	B2			C26	
R19	47K B2	R42	220 A2	R4	47K B1	180K	B2			(Co	
R20	22M B2	R43	330 A1	R5	68K A1	470	A2			C27	
R21	560K B2	(Common)		R6	220K B1	15K	B2			C28	
R22	270K B2	R44	680 A2	R7	47K A1	470	A2			C29	
R23	10K B2	R45	180 A2	R8	1M B1	120	A2			(Co	
R24	1K —	R46	330 A2	R9	18K B1	3K3	A1			C30	
R25	1K B2	R47	4K7 A2	R10	470K B1	220	A1			C31	
		R48	33 A2	R11	1K2 B1	680	A2			(Co	
		R49	33 A2	R12	820 B1	180	A2			C32	
										C33	
										10µ	

CAPACITORS		R46		R57		R61	
<b>Right Hand Channel</b>		330	A2	33 1/2W	—	10K 1/2W	A2
C1	15n A1	R47	4K7 A2	10K	B2	470	A1
C2	910p A1	R48	33 A2	10K 1/2W	B2	10K 1/2W	A2
C3	3n9 B1	R49	33 A1	(Common)			
C4	470n B1	R50	330 A1	R51	470K A1		
C5	180p B1	R51	180 A2	R52	680 A2		
C6	100µ B1	R52	680 A2	R53	4K7 A2		
C7	1600n B1	R53	4K7 A2	R54	220 A2		
C8	640µ B1	R54	220 A2	R55	10 1/2W A2		
(Common)		R55	10 1/2W A2	R56	680 A2		
C9	220n B1	R56	680 A2	R57	33 1/2W —		
		R57	33 1/2W —	R58	22 1/2W A2		
		R58	22 1/2W A2	R59	3K3 B1		

2	23	32	31	27	39	34	38	35	37	41	VA1	48	51	45	50	53	54	57	55	61		
62	25	24	29	26	28	30	33	36	42	60	40	43	49	46	47	54	52	56	58			
15	16	17	22	18	19		21	20	24	26		23	25		27		28		29	31	30	32

**RIGHT HAND CHANNEL**



CAPACITORS			
Right Hand Channel			
B1	R46	330	A2
B2	R47	4K7	A2
B2	R48	33	A2
B2	R49	33	A1
B2	R50	330	A1
B2	R51	180	A2
B2	R52	680	A1
B2	R53	4K7	A2
B2	R54	220	A2
B2	R55	10 1/2W	A2
B2	R56	680	A2
B2	R57	33 1/2W	—
B2	R58	22 1/2W	—
B2	R60	470	A1
B2	R61	10K 1/2W	A2
B2	C1	15n	A1
B2	C2	910p	A1
A2	C3	3n9	B1
B2	C4	470n	B1
A2	C5	180p	B1
A2	C6	100p	B1
A1	C7	1600n	B1
A2	C8	640p	B1
A2	C9	220n	B1
A2	C10	680p	B2
A2	C11	680p	B2
A2	C12	5n	B2
A2	C13	5n	B2
A2	C14	100n	B2
A2	C15	250p	B2
A2	C16	100n	B2
A2	C17	470n	B2
A2	C18	20n	B2
A2	C19	110p	B2
A2	C20	75p	B2
A2	C21	160p	B2
A2	C22	400p	B2
A2	C23	22p	A2
A2	C24	160p	A2
A2	C25	200p	A2
A2	C26	400p	B2
A2	C27	330p	A2
A2	C28	470n	A2
A2	C29	100n	A2
A2	C30	3000p	—
A2	C31	100n	A2
A2	C32	3000p	—
A2	C33	10p	A1

Left Hand Channel			
A1	C1	15n	A1
A1	C2	910p	A1
A1	C3	3n9	A1
B1	C4	470n	B1
B1	C5	180p	B1
B1	C6	100p	B1
B1	C7	1600n	B1
B1	C8	680p	B2
B2	C9	680p	B2
B2	C10	5n	B2
B2	C11	5n	B2
B2	C12	100n	B2
B2	C13	100n	B2
B2	C14	100n	B2
B2	C15	100n	B2
B2	C16	100n	B2
B2	C17	470n	B2
B2	C18	20n	B2
B2	C19	110p	B2
B2	C20	75p	B2
A2	C21	160p	A2
A2	C22	22p	A2
A2	C23	160p	A1
A2	C24	200p	A2
A2	C25	330p	A2
A2	C26	470n	A2
A2	C27	3000p	—
A2	C28	3000p	—
A2	C29	3000p	—
A2	C30	10p	A1

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