RD JUNIOR MAIN AMPLIFIER.

Installation and Operation.

We recommend that these Instructions be read fully and carefully before any attempt is made to connect up or use the equipment.

1. Insert the valves in their appropriate holders taking care not to bend the pins and ensuring they seat correctly.

2. Set the mains voltage adjustment panel, located on the side of the mains transformer, to the correct supply voltage, using the 2-pin shorting link supplied; this link also incorporates the mains primary fuse. Should the equipment fail to 'light up' when switched on, this fuse should first be checked for continuity.

3. Insert the appropriate "Impedance Plug" in Octal Socket marked "L.S. MATCHING" Plugs are available covering 2-3 ohms, 6-8 ohms and 12-16 ohms. Loudspeakers outside these ranges may be used; 4 ohm units operating best on the 6-8 ohm range, 10 ohm units on the 12-16 ohm range. For optimum results, however, an auto transformer, providing an exact match, is available as a separate item.

4. The connecting lead from the Control Unit (either the JUNIOR or SENIOR model) should be plugged into the Octal Socket marked "TO CONTROL UNIT."

5. The connecting lead from the RD JUNIOR FM Unit should be plugged into the Octal Socket marked "TO TUNER."

6. Connect supply mains to 3-way mains plug. On 2-way mains systems the third pin should be taken to a reliable earth.

7. The gramophone motor earth connection should be taken to the tag bolted to the mains transformer.

8. For convenience the A.C. power for a gramophone motor, or other auxiliament, may be taken from the 2-way socket market "A.C. OUTLET".

9. The amplifier is secured in the cabinet by means of four BA bolts which are screwed into hank bushes fitted to the chassis end flanges.

Connections to socket marked "TO CONTROL UNIT":-

1 and 2.	Heaters.	(6.3V C.T.)	5. Signal Input.
3.	H.T.	(270V)	7 and 8. A.C. Switch.
4 and 6.	Earth.		

Connections to socket marked "TO TUNER":-

1 and 2.	Heaters.	(6.3V C.T.)	5. N.C.
3.	H.T.	(270V)	7 and 8. A.C. Supply.
4.and 6.	Earth.		

(The above connections are of interest only if equipment of another make is to be used with the amplifier. With all "RD" units the connecting leads are already fitted with the correct flex plug which is simply plugged into the appropriate socket, no further connection being necessary).

Points to note when fitting the amplifier into a cabinet:-

HEAT: Adequate ventilation must be provided, especially around the rectifier and output valves which normally run very hot. In addition units susceptible to heat, especially FM Units should not be mounted immediately above the output valves.

HUM: Although shrouded, the mains transformer still has an appreciable hum field and we recommend that tape heads and magnetic pick-up heads be kept at least 18" away if the possibility of induced hum is to be avoided.

The effect of reversing the mains lead may be tried to reduce hum

"RD JUNIOR" AMPLIFIER.

Component Values.

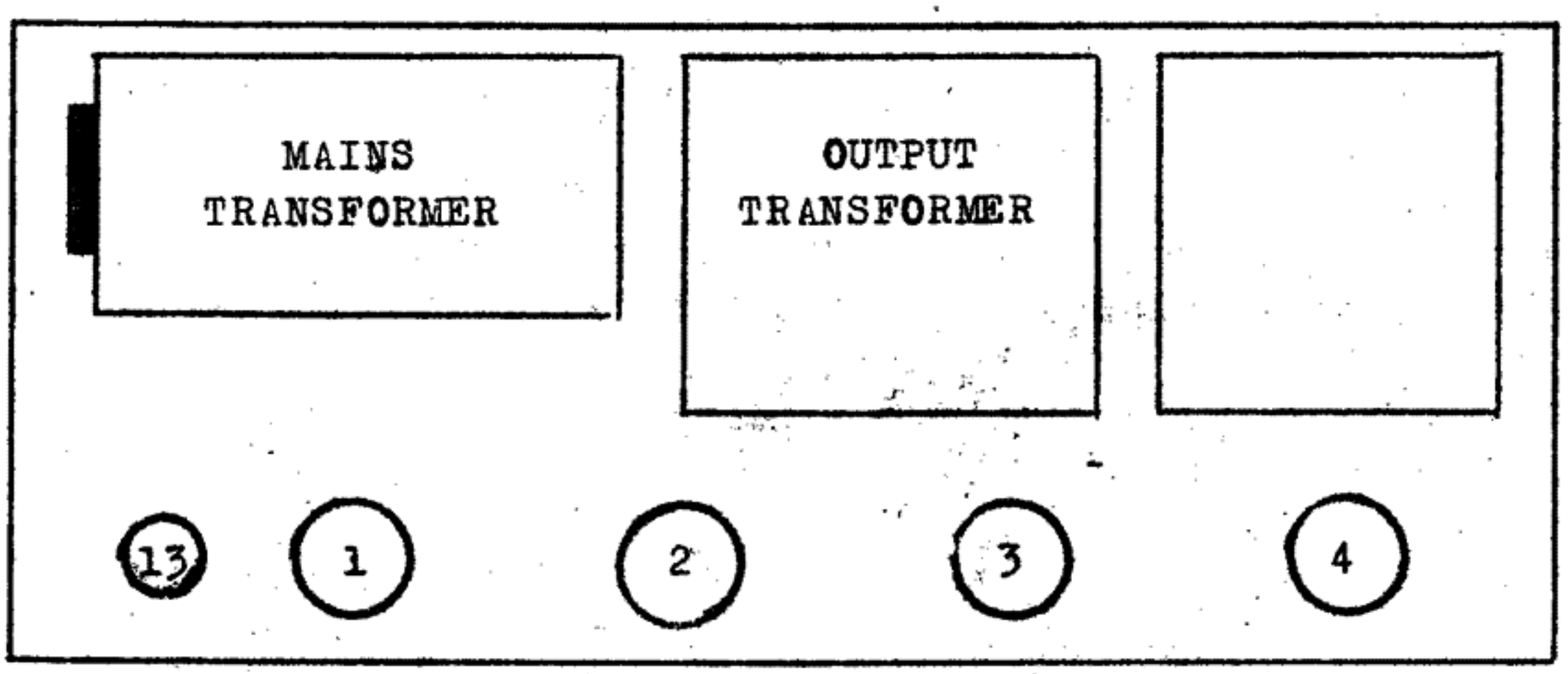
R1.	2.7K.	¼ Watt.	10%
R2.	220	"	"
R3.	470K.	½ W.	"
R4.	100K.	¼ W.	5%.
R5.	2.2K.	"	10%.
R6.	100K.	"	5%.
R7.	680K.	"	10%.
R8.	270K.	"	"
R9.	270K.	"	"
R10.	22K.	"	20%.
R11.	22K.	"	"
R12.	135	3 W.	10%.
R13.	50 ohms.	Potentiometer.	
R14.	68 "	3 Watts.	

C1.	50 uf.	12V.
C2.	.02 "	400V.
C3.	.1 uf.	"
C4.	.1 uf.	"
C5.	50 uf.	350V.
C6.	50 uf.	12V.
C8.	50 uf.	350V.

V1.	ECC83.
V2.-3.	EL84.
V4.	EZ81.

ROGERS DEVELOPMENTS (ELECTRONICS) LTD.
"Rodevco Works"
4-14 Barmeston Road, Catford, London, S.E.6.
HIThER Green: 7424.

8

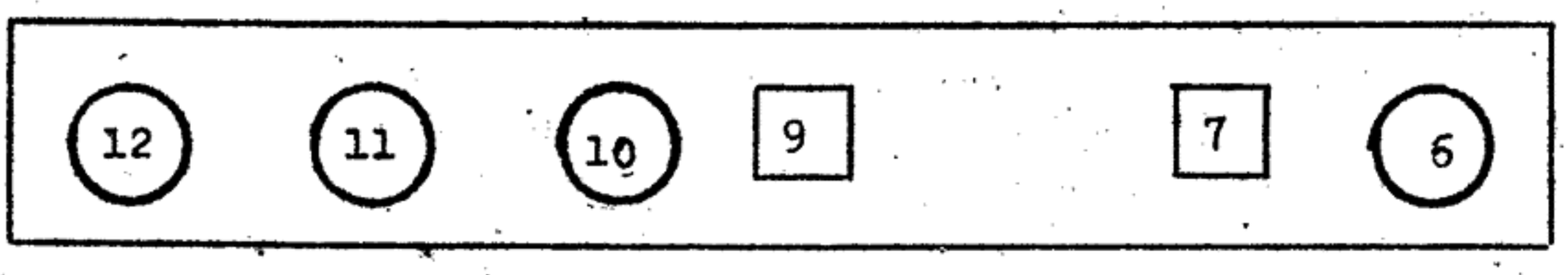


PLAN VIEW.

KEY:-

1. Mullard EZ81.
2. " EL84.
3. Mullard EL84.
4. " ECC83 (Screened by can)

* 13."Humdinger".



REAR VIEW.

KEY:-

6. Mains Input Socket.
7. A.C. Outlet.
8. Mains Voltage Adjustment Panel.
9. Loudspeaker Output.
10. Impedance Plug Socket.
11. Radio Unit Socket.
12. Control Unit Socket.

* A pre-set potentiometer is now fitted across the filament supply feeding the Control Unit. The potentiometer is located immediately next to the EZ81 valve holder on top of the main amplifier chassis. On initially setting up the equipment this control should be adjusted by trial and error for minimum hum. No further adjustment will be necessary.

ROGERS DEVELOPMENTS (Electronics) LTD.
"Rodevoo Works"
4-14 Barmeston Road, Catford, London, S.E.6.
HITher Green: 7424.