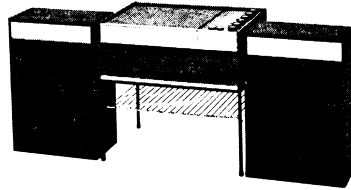


Service

notes

MODEL RF695

"SCATTERGRAM"



SPECIFICATIONS

Power Supply	.....	220-250V 50Hz
Power Consumption	.....	20W
Record Changer	.....	Philips GC036
Pick-up Head	.....	GP200 (stereo, ceramic)
Modules	.....	UF311, 2xUA505
Tuning Range	.....	520-1620 KHz
Intermediate Frequency	.....	455 KHz
Lamps	.....	8045D (6.3V 0.3A Tub. Screw)
Lamp, bezel	.....	8008D (6.3V 0.15A Tub. Screw)
Fuse	.....	750mA

CHASSIS REMOVAL

Unplug mains lead at power point. Remove control knobs, nylon dial escutcheon retainers, dial escutcheon and four chassis retaining screws.

Initially raise front end of chassis to release rod aerial adjusting arm from cabinet aperture; unplug changer pick-up and power leads from chassis.

Lead length is sufficient to allow chassis to be removed and serviced adjacent to cabinet.

When refitting chassis swivel rod aerial to a position parallel with chassis to prevent breakage.

LAMP REPLACEMENT

Dial Lamps

Remove dial escutcheon. Back off the screws holding the dial scale clamping bracket and rubber support.

The dial lamp in its holder may now be withdrawn from the rubber support.

Bezel Lamp

The bezel lamp is mounted on the chassis.

Follow chassis removal procedure; raising the front end of the chassis facilitates removal of the bezel lamp.

RECORD CHANGER REMOVAL

Unplug mains lead at power point.

Remove chassis and unplug changer pick-up and power leads.

Two holes in turntable beneath mat provide access to two locking screws, one securing each changer retaining bracket.

Loosen screws and move brackets towards centre.

Lift changer clear of cabinet.

I.F. ALIGNMENT

Connect signal generator via I.F. dummy to base of TR1. Peak coils in the following order at the quoted frequencies.

I.F.T. 2	.....	457 KHz
I.F.T. 1	.....	453.3 KHz
I.F.T. 3	.....	457.5 KHz

Repeat adjustments as necessary.

R.F. ALIGNMENT

Fully close tuning capacitor and position dial cursor to the 520 KHz mark. Inject signal via a single turn around the aerial rod. Set signal generator at 520 KHz and peak oscillator coil. Tune receiver to full H.F. limit and set generator at 1620 KHz. Peak oscillator trimmer. Repeat above until band end setting is correct.

Tune generator and receiver to 600 KHz and adjust rod aerial assembly.

Tune generator and receiver to 1500 KHz and adjust aerial trimmer.

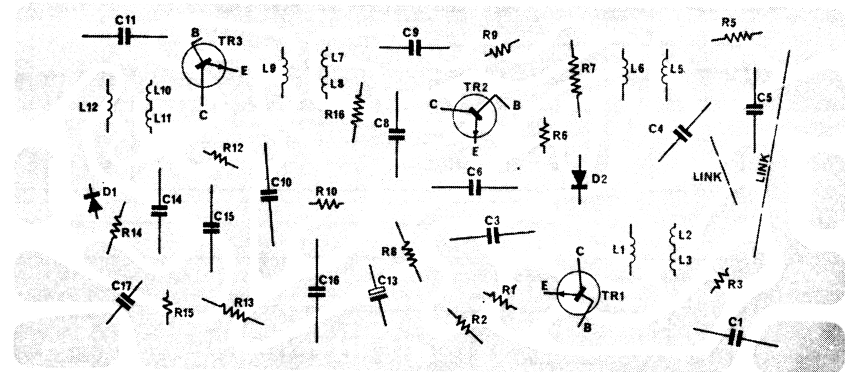
Repeat last two adjustments as necessary.

OUTPUT TRANSISTOR ADJUSTMENT

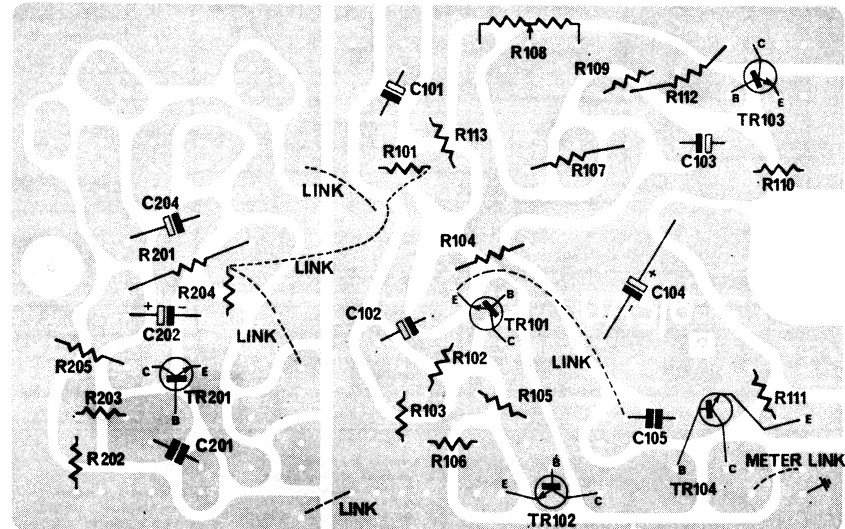
The quiescent current of the output transistors can be adjusted by means of R103 and measured via the metering points provided. Under no signal conditions, the current should be adjusted in accordance with the following table.

Temperature °F	40-85	90	95	100	105	110	115
Collector current mA	7.5	7.5	7.7	8	8.5	9	10.5
Total current mA	27	27.5	28	28.5	30	31	32

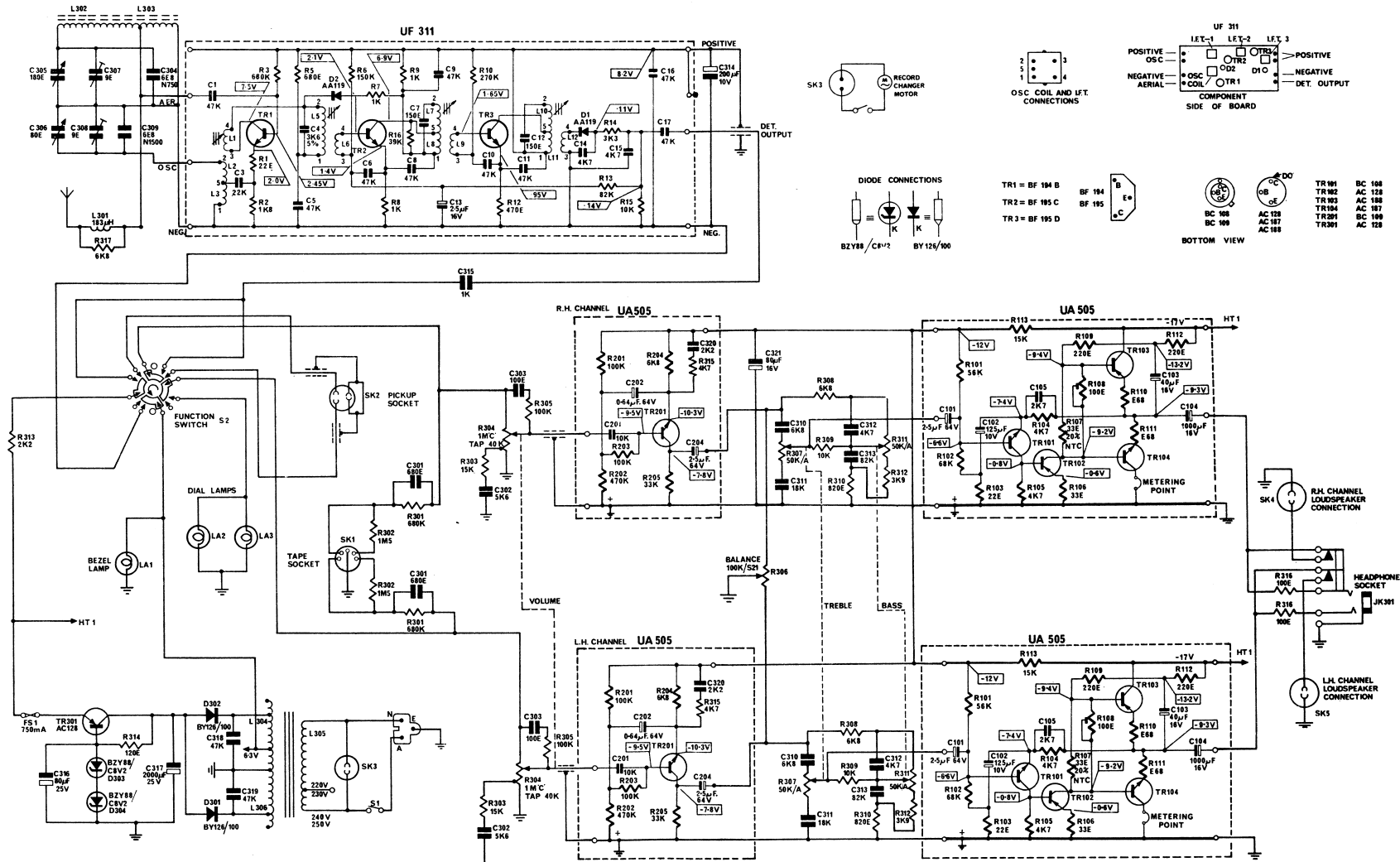
UF311



UA505



UNIT MODEL: RF 695		CIRCUIT CODE: 07/365	
8	10	12	13
14	15	16	17
18			



NOTE: 100 AND 200 SERIES COMPONENTS ARE USED ON UA505.
 200 SERIES COMPONENTS ARE USED ON P.W. BOARD AND CHASSIS.

1. RESISTORS ARE 1/2 WATT.
2. CAPACITORS ARE IN pF UNLESS OTHERWISE STATED.
3. CIRCUIT DIAGRAM UA505 07/340
4. CIRCUIT DIAGRAM UF311 07/316
5. VOLTAGES MEASURED FROM CHASSIS UNDER NO SIGNAL CONDITIONS WITH A V.T.V.M. TOLERANCE ± 10%.
6. SWITCH S1/S2 DRAWN IN OFF POS. POSITION 2 IS GRAM. POSITION 3 IS RADIO.
7. PLUGS SHOWN FROM PIN SIDE.
8. SOCKETS SHOWN FROM LUG SIDE.
9. SWITCH S1 IS MOUNTED ON S2.
10. IF UF311 CAN IS EARTHED TO POSITIVE RAIL OF MODULE.

TOLERANCES	
R	± 10%
CERAMIC DISC TYPE -20% +80%	
ELECTROLYTICS -10% +50%	
OTHERS ± 10% UNLESS TOLERANCE SHOWN	

- L1 6.3V 0.15A 80000
 L2 6.3V 0.22A
 L3 8M5D

