

R ±10%

POLYESTER STYROSEAL STYROFLEX ±10%
ELECTROLYTICS - 10% +50% - UNLESS OTHERWISE STATED.

TOLERANCES

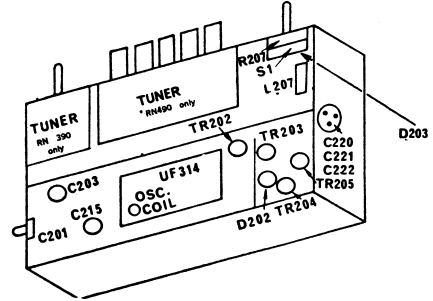
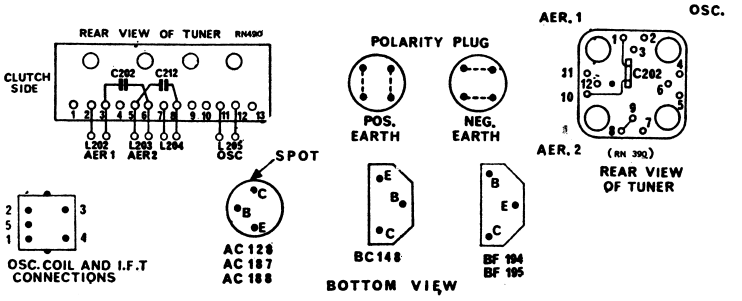
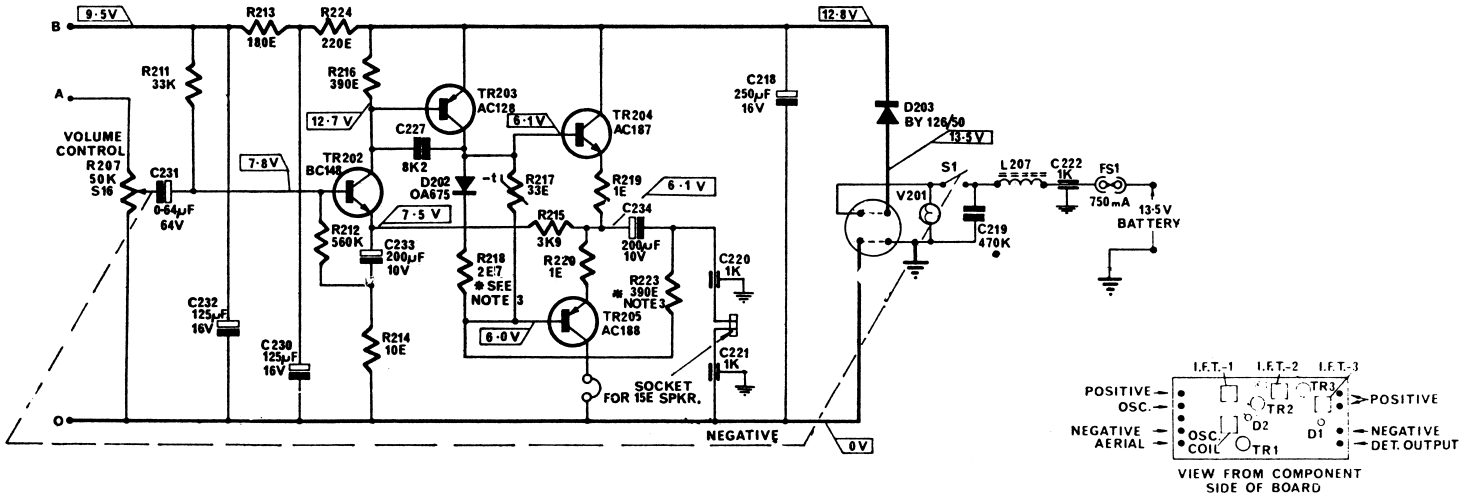
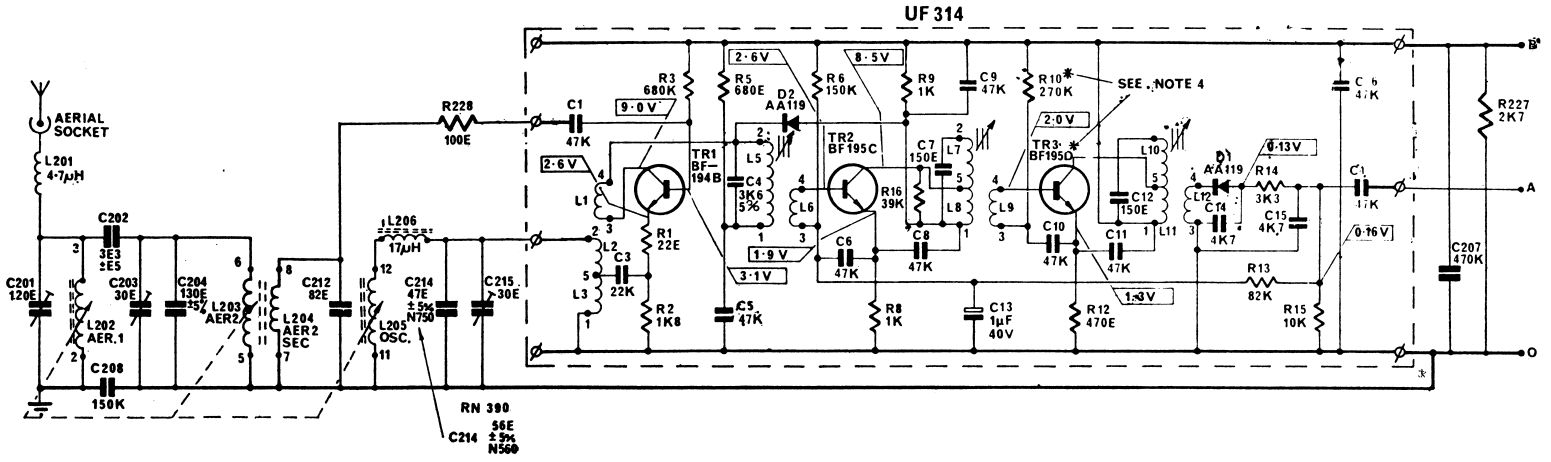
D1-AA110
TR1-BF 195 C
TR2-BF 194 B
TR3-BF 194
TR4-BF 195 D

CAPACITORS - WHOLE NUMBERS pF UNLESS OTHERWISE INDICATED

VOLTAGES MEASURED FROM -VE LINE UNDER NO SIGNAL CONDITIONS

R218 IS 100 OR ZERO OHMS TO BRING OUTPUT TRANSISTORS QUIESCENT CURRENT WITHIN THE LIMITS: 10-15mA AT 70°C; ALSO R226 IS OPEN CIRCUIT, 500 OHMS OR 1K2 OHMS TO ACHIEVE THIS.

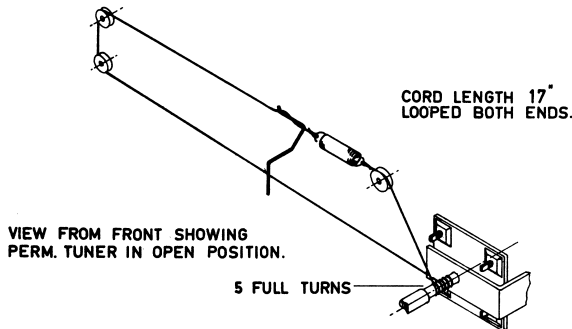
P7 Philips RN495 & RN595



PHILIPS

RN495, RN595

DIAL CORD LAY OUT RN495

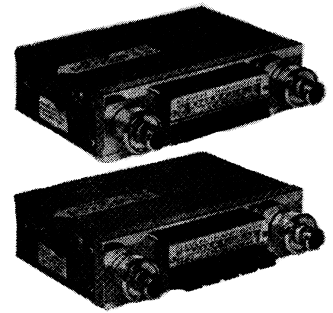


notes

"ROADMASTER 11"

MODELS RN495 & RN595

Both receivers are basically the same,
RN495 is manual, RN595 is push-button operation



SPECIFICATIONS

Tuning range	.....	525-1620 KHz
Intermediate frequency	.....	455 KHz
Power supply	.....	12V car battery only
Battery consumption	.....	See table below
Fuse	.....	750mA
Dial lamp	.....	Type 12843 (12v. 3w.)
Speaker impedance	.....	8 ohms.
Aerial input capacitance	.....	60 pF
Module	.....	UF425

UNCASING INSTRUCTIONS

Top and bottom covers can be removed by unscrewing two screws for each at rear of the receiver.

To remove printed base board, unsolder C218 (250 uF/16V) from board, remove two screws fixing output transistor heat-sink bracket to case, depress two spring clips at corners of board, release from back clips and rotate complete board and module through 90°.

Refit by the reverse procedure.

LAMP REPLACEMENT

Release two mounting screws and withdraw dial scale and overlay together with spacers.

Position pointer at extreme H.F. end of scale. Initially ease out L.H. end of dial light bracket finally withdraw complete unit.

Re-assembly is the reverse of the above. Do not over tighten dial scale screws as damage may occur.

I.F. Alignment

Open permeability tuner and connect signal generator via I.F. dummy to base of TR2. Turn volume control to maximum and tone control to treble position. Peak I.F.T. cores in the following order.

Third I.F.T.	.....	455 KHz
Second I.F.T. primary	.....	455 KHz
Second I.F.T. secondary	.....	455 KHz
First I.F.T. primary	.....	455 KHz
First I.F.T. secondary	.....	455 KHz

Repeat this procedure then repeak primary of second I.F.T. to 452.2 KHz and secondary to 458 KHz.

R.F. Alignment

Connect signal generator to aerial terminal via dummy aerial. Fully open permeability tuner and set dial cursor to the 1620 KHz mark on the dial scale. Peak C215 to a 1620KHz signal from the generator. Set generator to 1500 KHz and tune receiver to 1500 KHz point, peak C201, C203 and C210 at this frequency.

Tune generator and receiver to 600 KHz and peak oscillator coil core whilst rocking tuner back and forth across signal.

Repeat these adjustments until no improvement is achieved.

OUTPUT TRANSISTOR ADJUSTMENT

A link is provided for the insertion of a meter to enable quiescent current to be checked. Readings should conform to the following table at no signal. The dial lamp must be open circuit.

Temp. °F.	Collector Current (mA)	Receiver Current (mA)
50-60	7.5-13.0	44-59
60-70	8.5-14.0	46-61
70-80	10.0-15.5	47-63
80-90	11.0-17.5	49-65
90-100	12.5-19.0	52-67
100-110	14.0-21.0	54-70

R218 (1.0 Ω) may remain in or be shorted out of circuit as necessary to maintain the above limits. The value of R226 may also vary to bring the current within limits. Refer circuit diagram.

