

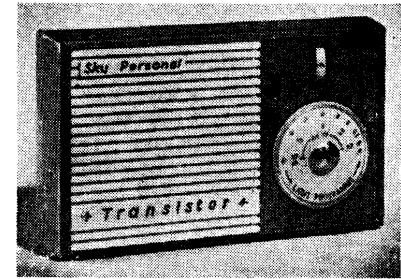
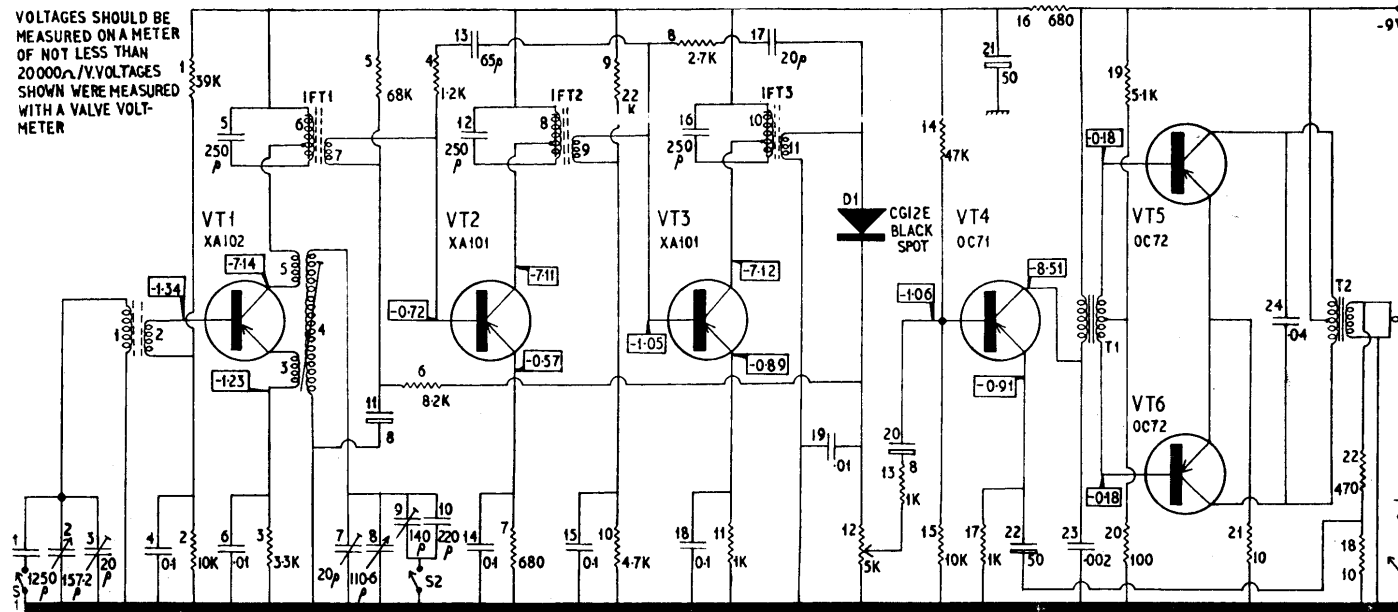
1210

# 'ERT' SERVICE CHART

EVER READY SKY PERSONAL

and  
**FERGUSON 348BT**

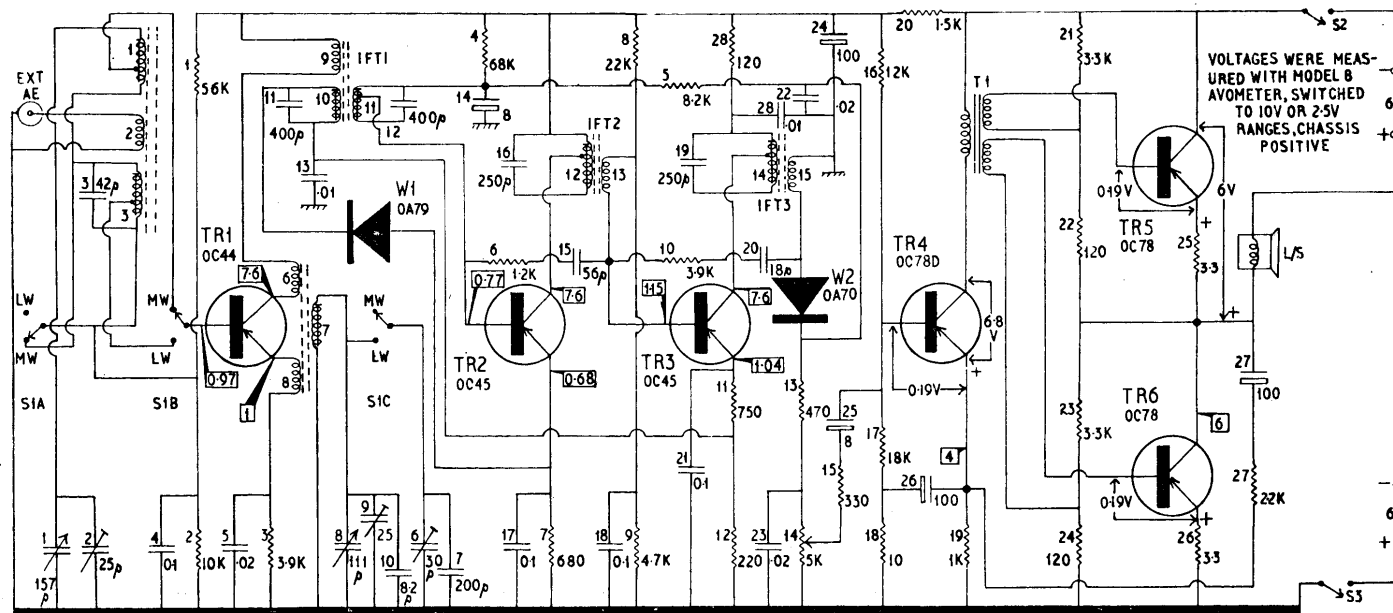
VOLTAGES SHOULD BE MEASURED ON A METER OF NOT LESS THAN 20000Ω/V. VOLTAGES SHOWN WERE MEASURED WITH A VALVE VOLT-METER



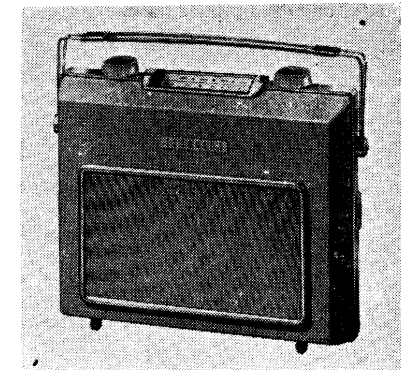
Ever Ready Sky Personal. Six-transistor "personal" portable, operating from 9V dry battery, marketed by Ever Ready Co. (G.B.) Ltd., Hercules Place, Holloway, London, N7.

Transistors. XA102, XA101(2), OC71, OC72(2).

*Continued in first col. overleaf*

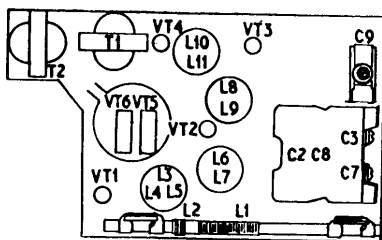


**FERGUSON 348BT**



Ferguson 348BT. Six-transistor portable receiver, operating from two 6V dry batteries, marketed by Ferguson Radio Corporation, Ltd., Gt. Cambridge Road, Enfield.

*Continued in second col. overleaf*



Crystal diode. CG12E.

Wavebands. 192-555m. (1,560-540kc/s); 1,500m. (200kc/s) only.

Battery. Ever Ready Batrymax Power Pack PP4.

**DISMANTLING**

**Chassis removal.** Brass screw securing tuning scale is removed and scale lifted off, when 4BA screw behind it can be unscrewed. Receiver is placed face down and back removed, followed by removal of 6BA screw in top left-hand corner of printed circuit plate. Take out and unplug battery, then disconnect loudspeaker leads and slacken screw in circular clamp round loud-speaker magnet. Chassis can then be carefully lifted out.

**Speaker removal.** After chassis removal, remove angle clamps on speaker rim by releasing two 6BA screws securing clamps and lift speaker out.

**ALIGNMENT**

**IF.** Close gang fully and set volume to maximum. Connect output meter across T2 secondary. Disconnect earthed side of C4 and reconnect it to output lead of signal generator via a 5.6K resistor, connecting earthy side of generator output to printed panel earth.

Inject modulated 470kc/s and tune L6, L8, L10 for maximum output, reducing input for as low level output as is convenient as each circuit comes into tune. Repeat operation for optimum results.

If serious detuning is being compensated for unscrew each core for some distance. First peak reached as each is screwed in is correct tuning position.

Disconnect generator, reconnect C4 and set tuning gang to mid-position.

Inject modulated 470kc/s via coil of 20 turns 20-24 swg wire, 4in. diameter, 2 1/2 in. long, mounted in same plane as and 2ft. from Ferrite rod aerial. Retune L6, L8, L10.

**RF.** As the RF circuits are interdependent, MW adjustment must be carried out first.

**MW.** Set scale to 5 (500M). Inject modulated 600kc/s via coupling loop already described. Tune L4 for maximum output.

Set scale to unnumbered line (230M) on LF side of 2 (200M). Inject 1,300kc/s via loop and tune C7, then C3 for maximum output.

Reset scale to 5, inject 600kc/s via loop and rock gang about 5 mark tuning L4 for absolute maximum output.

Reset scale to 230M., inject 1,300kc/s via loop, and retune C7 and C3 for maximum output.

**BBC Light.** Tune to 200kc/s (gang fully open). Inject 200kc/s via aerial or use Light Programme signal and tune C9 for maximum output.

**IF Sensitivity.** For 50mW output sensitivity should be better than 200µV injected via C4 with signal source impedance of 5.6K.

**IF Bandwidth.** Between 7 and 14kc/s measured at -6dB under conditions described for sensitivity test.

**FERGUSON 348BT**

*continued*

Transistors. OC44, OC45(2), OC78D, OC78(2).

Crystal diodes. OA70, OA79.

Wavebands. 182-552m.; 1,090-1,940m.

Batteries. Ever Ready PPI, Drydex DT1, GEC BB21, Vidor T6001.

**ALIGNMENT**

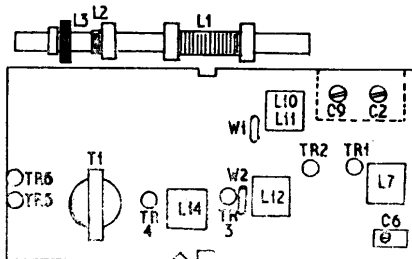
**IF.** Switch to MW, close tuning gang and set volume control at maximum. During all alignment maintain input level so that audio output does not exceed 5mW.

Inject modulated 470kc/s via 0.1mF capacitor across aerial section of tuning gang. Tune L14, L12, L11, L10, in that order, for maximum output.

Repeat operation in same order.

**RF.** Alignment of MW must be carried out first.

Alignment markers are notched in the scale backing plate. Set the cursor nearest the "Gang

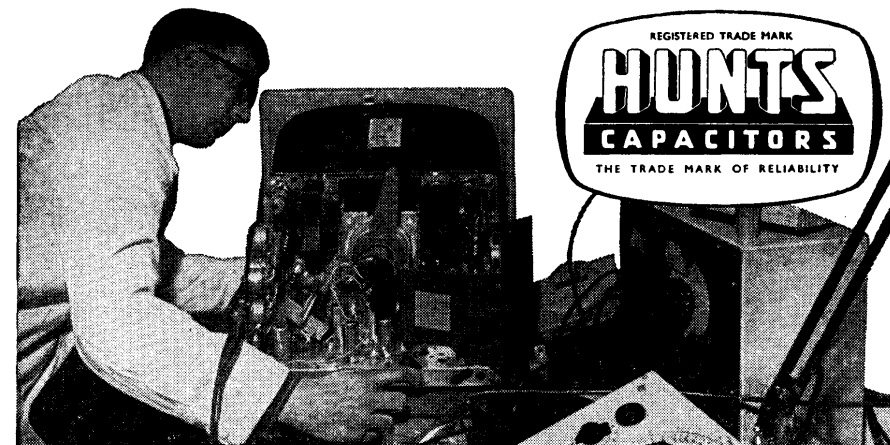


Max" position, when notch nearest "Gang Max" position is "MW Pad" point (600kc/s), "MW Trim" marker (1,300kc/s) is at the extreme end of the scale, and "LW Trim" (220kc/s) is between the MW markers.

Signals should be injected via a loop loosely coupled to the Ferrite rod aerial.

Range	Freq.	Cursor Position	Adjust
MW	1,300kc/s	MW Trim	C9, C2
MW	600kc/s	MW Pad	L7, L1*
LW	220kc/s	LW Trim	C6, L3*

\* Adjust by sliding coil along aerial rod.



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TYPE L136/2							
List No.	Cap µF	D.C. Wkg. Volts	Max. Surge Volts	Ripple Current m/a	Dimensions L D	List Price s. d.	
KN405	16	350	400	120	2 1/8" 1"	5 3	
KN406	24	350	400	170	2 1/8" 1"	5 6	
KN407	32	350	400	200	2 1/8" 1"	6 0	
KN409	50	350	400	250	2 1/8" 1"	7 6	
KN553	8	450	525	100	2 1/8" 1"	5 0	
KN554	16	450	525	150	2 1/8" 1"	5 9	
KN573	24	450	525	200	2 1/8" 1"	6 6	
KN555	32	450	525	280	2 1/8" 1"	7 6	
KN556	50	450	525	300	3 1/8" 1"	8 6	
TYPE L136/4							
KN418A	50 + 50	350	400	350	3 1/8" 1 1/8"	12 6	
KN558	8 + 8	450	525	100	2 1/8" 1"	7 6	
KN561	8 + 16	450	525	100	2 1/8" 1"	8 0	
KN562	16 + 16	450	525	150	2 1/8" 1"	9 0	
KN574	16 + 32	450	525	150	3 1/8" 1"	10 0	
KN564A	32 + 32	450	525	275	3 1/8" 1 1/8"	11 6	

Full details of other types of capacitors will be found in Hunt's Service Trade Catalogue, available on request.

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