

SERVICE NOTES

MODEL 1101

Model 1101 is a battery operated transistor portable of 300mw output. Its features include an earphone and external aerial socket.

DIMENSIONS AND WEIGHTS:

Dimensions

Unpacked: 9 in. wide x $4\frac{1}{2}$ in. high x $2\frac{1}{4}$ in. deep
Weight: 1 lb. 3 oz.

Packed: $9\frac{1}{2}$ in. wide x $5\frac{1}{4}$ in. high x $2\frac{1}{4}$ in. deep
Weight: 1 lb. 6 oz.

CHASSIS REMOVAL:

Undo the 2 handle securing screws and retain the 2 crinkled washers. Pull off the tuning dial knob. Remove the cabinet front by lifting the R.H. end clear of rear (L.H. end located in groove). The component side of printed board is now accessible.

The printed board is secured by lugs moulded in the cabinet top and bottom. To completely remove, gently lever out bottom of board from under bottom retaining lugs. The printed board may now be pulled out from under top retaining lugs and removed from cabinet.

BATTERY REPLACEMENT:

When the battery is to be replaced, slide out the battery compartment door on the rear of the radio, remove the old battery, and replace with an Eveready 2362 battery or equivalent, ensuring that the battery connectors are correctly and securely attached to the battery. Slide the battery compartment door into place.

CAUTION:

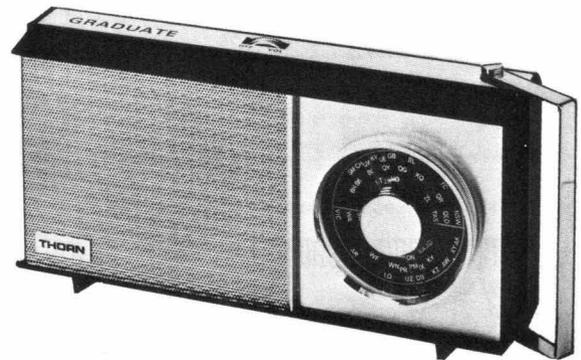
If the radio is not used for a long period of time, or when the battery is obviously exhausted, it is advisable to remove the battery from the receiver.

Pt. No. 572025



THORN

SERVICE MANUAL MODEL 1101

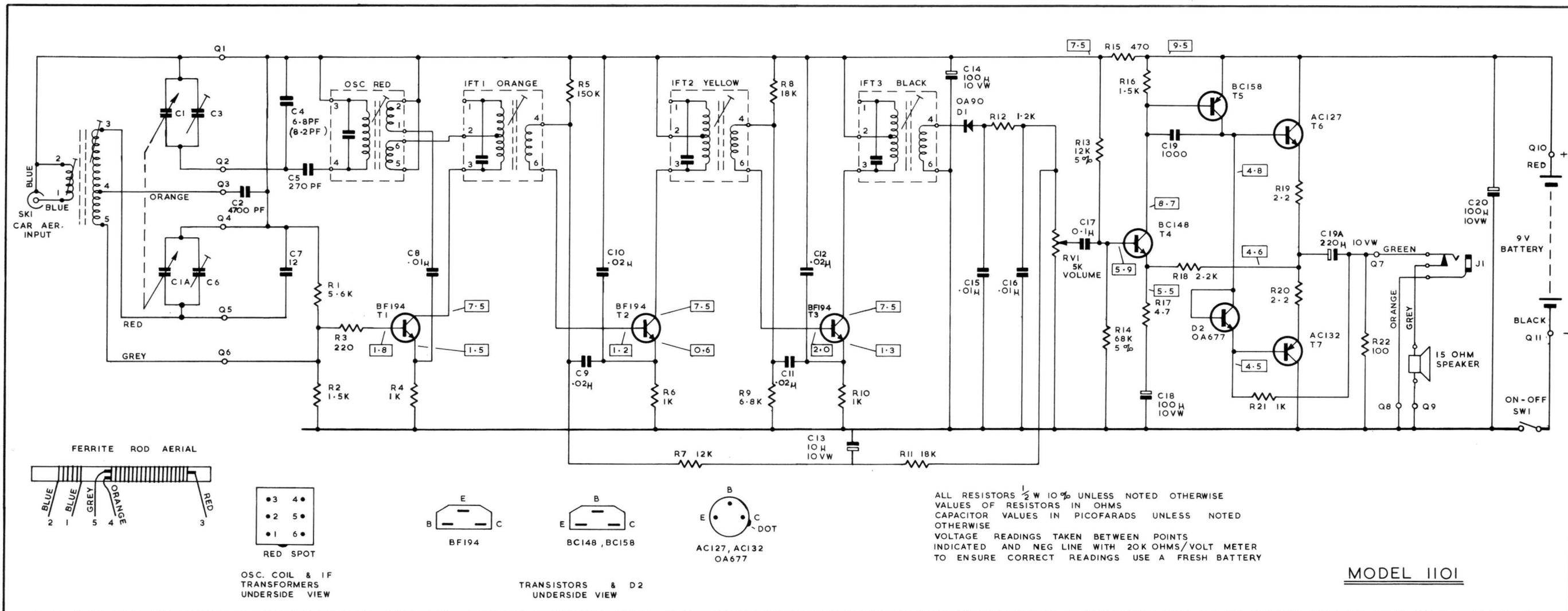


SPECIFICATIONS:

Tuning Range:	520—1610KHz
I.F.:	455KHz
Power Source:	9v. Eveready 2362 or equivalent
Power Output:	300mw
Voice Coil Impedance:	15 ohm
Sockets:	Car Aerial and Earphone Sockets

THORN ELECTRICAL INDUSTRIES (AUST.) PTY. LTD.

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ALIGNMENT:

I.F.

Connect a signal generator to a coupling loop (approx. 10 turns on 6 inch diameter) placed in line with and about 2 feet from the ferrite rod antenna.

With tuning gang fully closed and volume at maximum, set the generator to 455KHz and adjust the I.F. transformer cores for maximum output. Repeat adjustments until no further improvement can be obtained. Reduce generator output as receiver output increases, use a signal level as low as practical.

R.F.

Set the tuning dial to 600KHz and adjust the oscillator coil for max. output. Set the tuning dial to 1400KHz and adjust the oscillator trimmer. Repeat the above adjustments until tracking is correct.

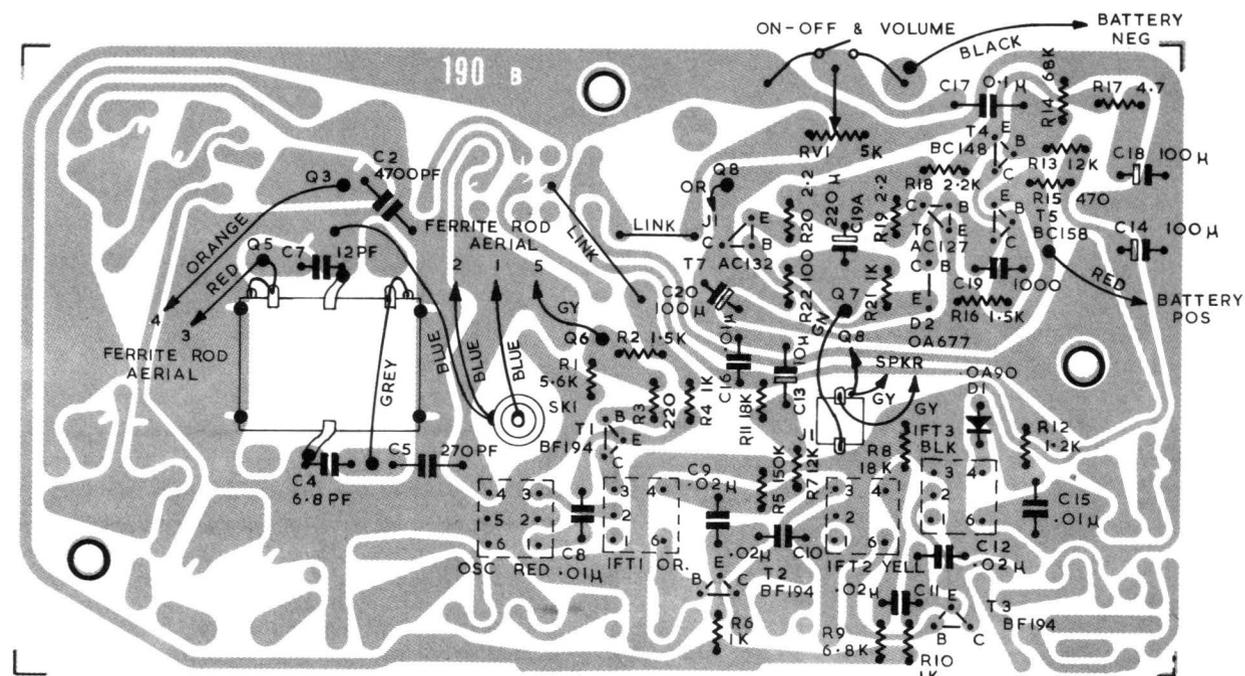
Adjust the aerial coil (by sliding along rod) for max. output at 600KHz.

Adjust the aerial trimmer for max. output at 1400KHz.

CIRCUIT NOTE

Some modifications have been made to the 1101 circuitry. These changes are noted below.

- C2 was .0015mF
- C4 was 8.2pF or 12pF
- R12 was 5.6K



P.C.B. DIAGRAM
 VIEWED FROM COPPER SIDE.

MECHANICAL PARTS LIST

	Thorn Part. No.
Cabinet Front	160156
Cabinet Back	160157
Badge	146071
Grille	463021
Handle	468028
Handle Screw	820021
Crinkle Washer	951943
Battery Door Plate	670134
Scale Facia Plate	670135
L. H. Trim	920074
R. H. Trim	920075
Top Trim	920076
Large Control Knob	510161
Knob Clip	245042
Dial	375023
Battery Connector Female	300022
Battery Connector Male	300023
Earphone	409001
Loudspeaker	560130
Loudspeaker Retainer	749004
Push-on Fix Nuts	610857
Car Aerial Socket	845213
Jack Switched Socket	845011
Aerial Mounting Clip	245127
Gang Bracket	135283
Battery Label	520040
Printed Board	146535
Captive Nut	610870
Ferrite Rod	770010

ELECTRICAL PARTS LIST

SEMICONDUCTOR KIT:

	Thorn Part No.
T1, T2, T3. Transistor, BF194 OR BF184	918050 (918032)
T4 Transistor, BC148 OR BC108	918048 (918026)
T5 Transistor, BC158 OR BC178	918056 (918033)
*T6, T7. Transistor Pair, AC127/AC132	918059
D1 Diode, OA90	378003
*D2 Diode, OA677	378020

*NOTE:

The triad (T6, T7, D2) is a matched set. To preserve optimum performance these components should be replaced as a set.

TRANSFORMERS:

Oscillator Coil. Red Dot.	917614
I.F. Transformer. Yellow.	917608
I.F. Transformer. Black.	917609
I.F. Transformer. Orange.	917615

RESISTORS:

R1	5.6K ohm ± 10% composition
R2	1.5K ohm ± 10% composition
R3	220 ohm ± 10% composition
R4, R6	1K ohm ± 10% composition
R5	150K ohm ± 10% composition
R7	12K ohm ± 10% composition
R8, R11	10K ohm ± 10% composition
R9	6.8K ohm ± 10% composition
R10	1K ohm ± 10% composition
R12	1.2K ohm ± 10% composition
R13	12K ohm ± 5% composition
R14	68K ohm ± 5% composition
R15	470 ohm ± 10% composition
R16	1.5K ohm ± 10% composition
R17	4.7 ohm ± 10% composition
R18	2.2K ohm ± 10% composition
R19, R20	2.2 ohm ± 0.5% composition
R21	1K ohm ± 10% composition
R22	100 ohm ± 10% composition
RV1	5K ohm Switch Pot 686500

CAPACITORS:

C1, C1A	Tuning Gang	274011
*C3, C6		*Part of Tuning Gang
C2		4700pF 100v poly
C4		6.8pF 500v cer.
C5		270pF ± 5% 50v cer.
C7		12pF 50v cer.
C8		0.01mF 50v cer.
C9, C10, C11, C12		0.022mF 50v cer.
C13		10mF 10v
C14		100mF 10v
C15, C16		0.01mF 50v cer.
C17		0.1mF 50v cer.
C18, C20		100mF 10v.
C19		1000pF 50v cer.
C19A		220mF 16v electro.

NOTE: Always quote the model number and the part number when ordering replacement parts.

The manufacturers reserve the right to vary specifications and/or materials as may be deemed necessary or desirable at any time.