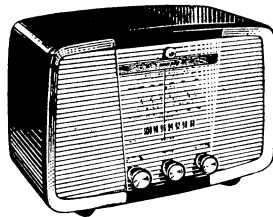


# **MURPHY SERVICE MANUAL SUPPLEMENT**

**FOR USE WITH THE A362 SERVICE MANUAL**



## **INTRODUCTION**

This supplement gives the differences between the A362T and the A362.

The A362T covers three wave-bands, Medium, Trawler, and V.H.F. Band II. The Trawler wave-band includes the frequencies used for the trawler radio-telephone transmissions; the full coverage of the band is from 66·7 metres to 187·5 metres (4·5 Mc/s to 1·6 Mc/s).

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## NOTES

The differences between the two models lie in the aerial and oscillator coils, the wave-band switch, and some of the associated components, together with some other components mentioned in the parts lists. To prevent i.f. break-through on

the Trawler wave-band, an i.f. rejector (L20, C25) has been added in the aerial circuit.

The modifications detailed on pages 4 and 16 of the A362 manual are all incorporated in the A362T.

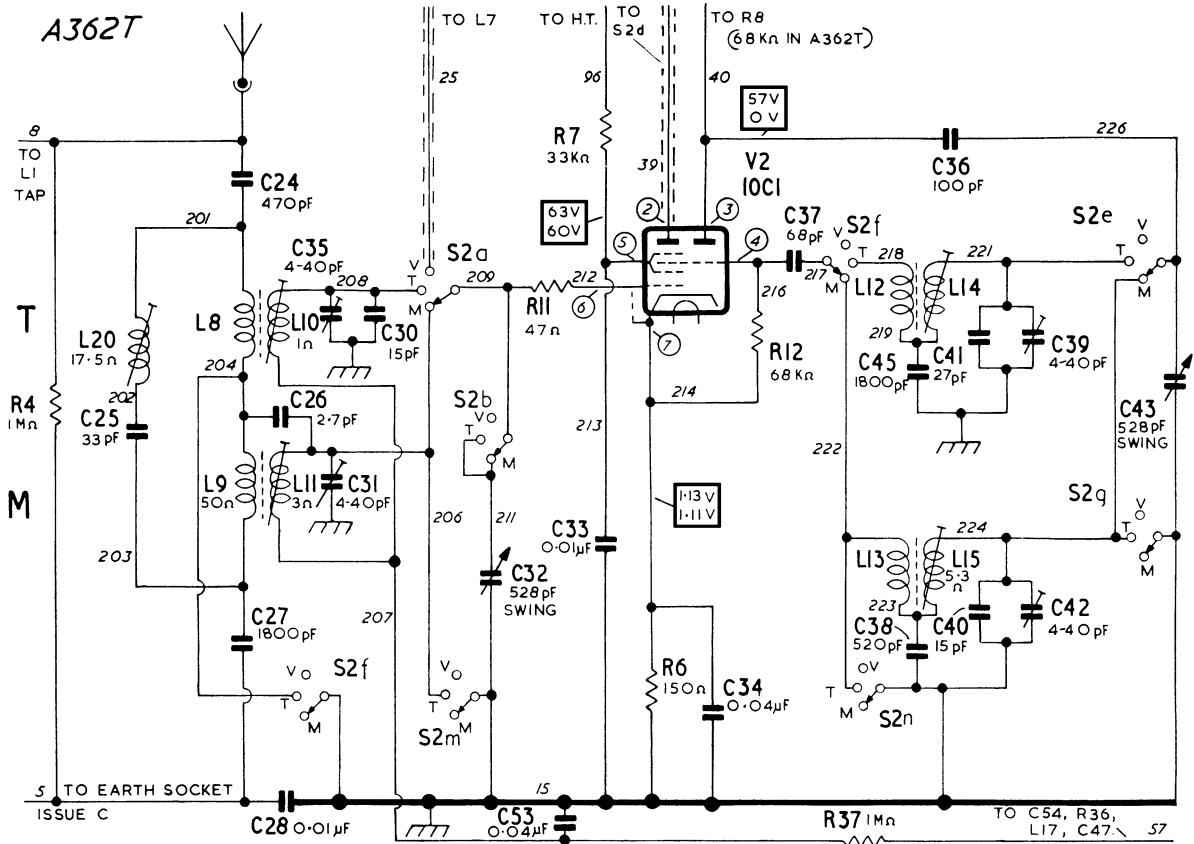


Fig. 1. The M and T band aerial and oscillator circuit.

The wave-band switch (S2) is shown in the M position. Circuit voltages are shown within rectangles and were measured under no-signal conditions using a 20 K $\Omega$ /V meter, with the receiver switched first to the M band (upper reading) and then to Band II (lower reading).

## CIRCUIT ALIGNMENT

The following notes cover the alignment of the Trawler band r.f. and oscillator circuits, and the i.f. rejector; the i.f., Medium wave, and Band II circuits are aligned as for the A362. The i.f. rejector and Trawler band adjustments must be made before the Medium wave-band adjustments. In normal circumstances, it is unlikely that the

i.f. rejector will need readjustment.

Since the A362 manual was published, the v.h.f. balancing capacitor (C21) has been changed to a fixed capacitor (5.6 pF,  $\pm 0.5$  pF, cer., 750V d.c., Part No. 66799). The references to the balancing capacitor adjustments on pages 2, 5, and 7 should therefore be disregarded.



