

# A Dual Wavetrap

## Will Keep Both 2YA and 2ZW from Spreading

**S**INCE "B" class stations have commenced to operate in the cities owners of unselective sets have been troubled with not only the separation of those stations, but also with the clearing of them from the remainder of the dial. It has been found that a simple wave trap will reject one station and allow the alternative programme to be listened to without interference. But owners of three and four-valve sets have found the blotting of a large portion

### Parts List for the "Dual" Trap

2 type G Formodensers  
2 terminals  
Four inches of 3in. former  
1lb. 26 d.s.c. wire.  
Switch (single)  
Panel, 7in. x 4in.  
Three-ply base board, 7in. x 4in.

of the dial by the untrapped station a serious handicap to D.X. work. The function of the dual wave trap is to cut out both stations simultaneously.

Simplicity of control and cheapness have been attained by the use of semi-variable condensers, or, as they are better known, Formodensers. Once these are adjusted, the wave trap is set for all time, conditional upon the aerial and the set remaining unchanged. It can be used in conjunction with any set, and it is easily made and quite inexpensive.

It will be noticed that there are two coils and two condensers, the function of each circuit being to reject one station.

### Constructing the Trap.

WE shall first deal with the construction of the wave trap and then explain how it is to be worked. The parts necessary for the standard trap are shown in a panel.

First build up the coil by taking about four inches of three-inch dia-

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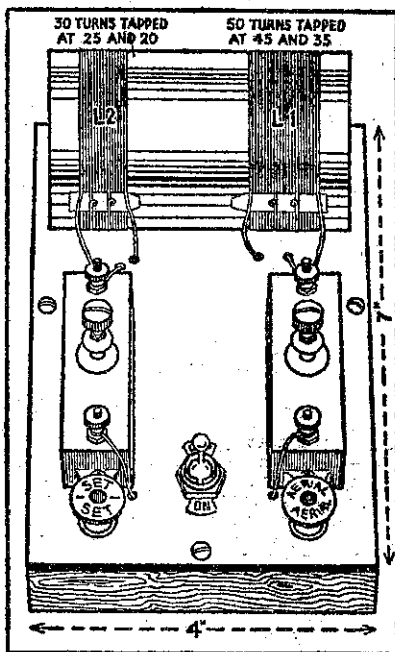
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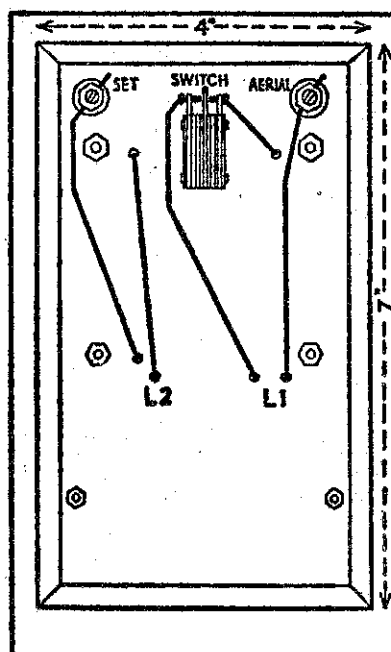
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The layout plan.

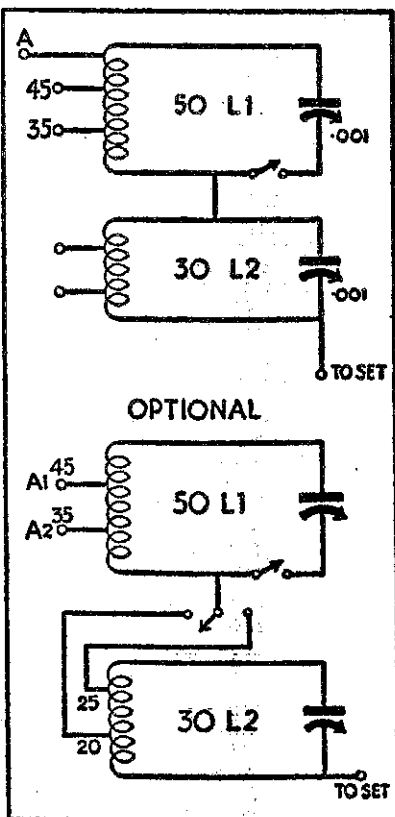


Wiring from underneath baseboard.

meter former and winding upon it the two coils. Use 26 d.s.c. wire. L1, for trapping out 2YA, consists of 50 turns tapped at the 45th and 35th turns, while the smaller coil L2 consists of 30 turns tapped at the twentieth and twenty-fifth turns. It is not altogether neces-

sary to put in these taps for the numbers of turns given have been arrived at after a great deal of experimenting and are correct for 2YA and 2ZW. Taps can be put in and connected up as shown in the optional circuit when conditions demand some deviation from the standard. This arrangement will be of use in cities other than Wellington.

It is necessary to separate the coils by a matter of some two inches or so, the exact distance not being critical.



Theoretical sketch.

Taps may be made by twisting portion of the wire on the desired turn and afterward cleaning and soldering it, or by slipping a piece of non-inflammable material under the desired turns when the job is finished, cleaning the portion of the wire and soldering on the leads, using heavier wire for the purpose.

The coil is to be mounted horizontally, and in order to keep the wire off the baseboard, two separators must be made to fit between it and the coil. A couple of fair-sized nuts will do splendidly for this purpose. Small separa-

### Coil Specifications

Former 3in. diameter wire 26 d.s.c.  
L1 50 turns tapped at 45th and 35th turns.  
L2 30 turns tapped at 20th and 25th turns.  
Most effective results on 2YA and 2ZW have been obtained by using the whole of both coils.

tors of wood could be pressed into service.

### Layout and Wiring.

THE layout of the remainder of the components should present no difficulty, as all positions are shown clearly in the diagrams. Wiring is a simple operation, but it must be noted that a considerable amount of it goes underneath the baseboard, which is held from resting on the ground by either slats of wood or by a suitable frame. The latter makes the neater job.

(Concluded on page 30.)

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