The "Eagle Five"

(Continued from page 17.)

to make the required connection to the differential reaction condenser.

The coils are now complete, and to gether with the other above-baseboard components, should be placed in their correct positions and screwed down. The disposition of the components is shown in the above-board photograph, but should any uncertainty be felt the constructor should wait for next week's issue, which will contain both above and under-baseboard layout diagrams. The front panel should now be carefully measured out and drilled to take the shafts of the three tuning condensers and those of the rheostat and reaction condenser. All the necessary dimensions are shown in the sketch.

In the next and concluding instalment further hints on the construction and operation of this receiver will be ·given.

"Night-owl Three"

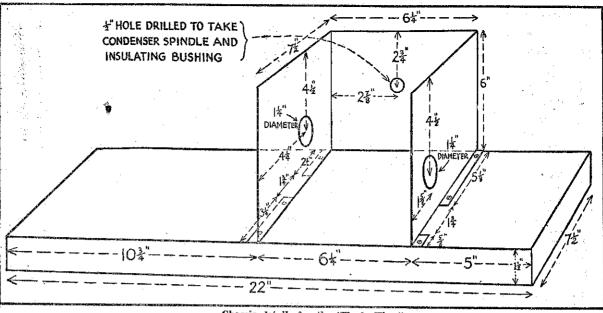
(Continued from page 29.)

it out again. For this reason vernier dials are a necessity.

Concluding Hints.

ON trying out a set, on which he has probably spent all his spare time for days in building, the constructor is very apt in his eagerness to see "how she works," to overlook certain obvious little points which may appear almost laughable to those who have not yet built their first set. The following are a few tips which may help you if the set will not work, or perhaps brings in the stations only very faintly:-

Firstly, see that aerial and earth are connected, and if you have an earthing switch on your aerial, see that it is up. Secondly, see that the grid-leak and coil are in place, and that the rheostat controlling the filament voltage in the detector valve is not turned round denser, will be given.



Chassis details for the "Eagle Five."

to the off position. The correct bias, which you can ascertain by consulting the leadet enclosed in the valve carton, should be applied to each of the audio valves. "Thirdly, if the set does not oscillate check the connections to the coil, making quite certain that all are round the right way, and particularly that all coils are wound in the same direction. Fourthly, if the set seems dead, touch the end of the grid-leak farthest from the valve. A "squawk" in the 'phones indicates that the set is O.K. from that point onward. Lastly, you will find that the "Night-owl Three," if made up as described and wired up correctly, will give surprising results, but should you by any chance not be able to get the set to work, our "Questions and Answers" service is at your disposal.

Next week details of an ingenious coil, enabling the complete broadcast band to be covered with one coil, despite the smallness of the tuning con-

List of Parts for the "Eagle Five"

Aluminium Baseboard and Screen. Panel

Set of 3 Coils, as described.

- .00035-mfd. Variable Condensers
- .00027 Differential Condenser.
- Vernier Tuning Dials.
- Small Dials for rheostat and reaction.
- 1000-ohms Decoupling Resistances
- 1-mfd. Bypass Condensers.
- .00025-mfd. Mica Fixed Coupling Condenser.
- .0001-mfd. Mica Fixed Coupling Condenser.
- .1-mfd. Mica Fixed Coupling Condenser.
- .0003-mfd. Grid Condenser.
- 3-meg. Grid Leak, with mount.
- 100,000-ohms Grid Leak, with mount.

- 1 250,000-ohms Grid Leak, with mount.
- R.F. Chokes.
- 30-ohms Rheostat.
- Audio Transformer, 31-1 or
- 3 UX Valve Bases.
- 1 On/Off Filament Switch.
- S625 Type Valves, with special
- Valves for Det., 1st and 2nd Audio.

Battery Cable.

Aerial and Earth, and Output Terminals, mounted on

Angle Brackets, Screws, Glazite, etc.

"A", "B" and "C" Batteries, with 3 "C" Battery Wanderplugs.

Silver Marshall 737 'BEAR-CAT'

The "Bear Cat" is the latest thing in short-wave receivers. It has everything—built-in power supply, one dial tuning and screened grid circuit—just a twist of the wrist and in comes the distant short-wave stations.

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Covers 16.6 to 200 metres-And coils are obtainable to cover the New Zealand Broadcast Bands, thus giving an-

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The Radio Trade

(Continued from page 2.)

From an entertainment point of view it would not be tolerated in New Zealand.

There were some rumours that television had been perfected by some organisations to a stage where it was ready for release, and which would be generally accepted as a form of entertainment, but apart from these rumours there was no other evidence that television was much nearer being a form of entertainment.

Several large manufacturers have a department with research engineers devoting their entire attention to perfecting television, but these all conceded that progress was very slow and they were not hopeful of early success.

Archibald Writes a Play

(Continued from page 11.)

I shows them to the door, and be blowed if I didn't tumble over the step,

and a gust of wind blow the blinking manuscript out of me 'and and down the street! They 'elps me to collect the pages, but 'alf was missin'! Some-'ow I thinks they pinched them, bein' jealous of me dramatic talon!

Unfortunately, what was left made no sense, even though I shuffles the pages like a pack of cards. But I'm not 'eartbroken entirely, and I'll finish it some day, and what a treat there will be for the folks what listens in!

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