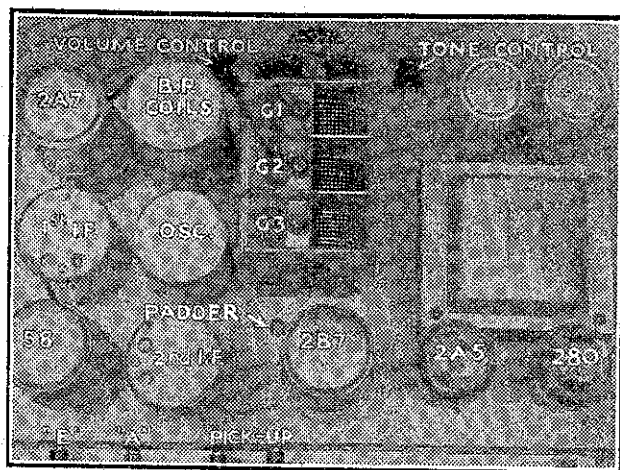


104 Stations Logged in

Three Weeks!

Latest "Radio Times" Kit-set is simple and cheap to build, but gives amazing results

This photograph shows the simple, neat above-chassis design used in the "Comet Superhet Five." The latest type valves are used throughout.



OVER one hundred stations were logged in three weeks during a special test of the "Comet Superhet Five," a five-valve a.c. superhet described in the November issue of the "N.Z. Radio Times," which is now on sale. This phenomenal log, which includes no less than 21 stations on the American continent, is guaranteed authentic by Mr. A. J. Clifford, the Wellington reader of the "Times" who put the "Comet" through its paces.

The idea of submitting the set to a reader for an independent test report was to give intending builders an undisputable guarantee that the claims made for it were in no way exaggerated.

In his report, Mr. Clifford states: "In the past three weeks I have given the set a thoroughly good tryout. I am greatly impressed with its performance—it is simply amazing. I have logged 104 stations in America, Australia, New Zealand, China, Japan, Mexico and Manila, all received at exceptional strength. I am enclosing a log of stations heard. Large as it is, I believe it would have been greater but for the fact that during the past week conditions have not been really of the best. The set was tried out on an aerial 95ft. long and 40ft. high."

As a special gift to "Times" readers, a free blueprint, showing the circuit and under-chassis wiring diagrams of the "Comet Five," is enclosed with each copy. The latest type valves are used throughout. A band-pass pre-selector stage precedes a 2A7 mixer-oscillator, which is followed by a 58 i.f. amplifier, a 2B7 combined diode second detector and high gain audio amplifier, and finally, a 2A5 output pentode. Delayed automatic volume control is provided—a refinement which greatly minimises fading and also eliminates "blasting" on the local stations. Every detail of the circuit is explained in the description of the set.

A special cabinet of attractive and modernistic design was designed for the "Comet" by a Wellington firm of radio-cabinet-makers, and it can be obtained by readers at a very reasonable cost.

Taking everything into consideration, the "Comet Superhet Five" is perhaps the most powerful and selective a.c. superhet that has ever been described in New Zealand. The description of the "Comet" and the diagrams accompanying it are complete down to the

last detail, so that anyone who is capable of using a pair of pliers, a soldering iron and a screwdriver would be able to build the set. No previous experience in radio construction is necessary.

Other Features of This Month's "Times."

Constructional details are also given of a small superhet which uses only three valves, excluding the rectifier. In this set a type 6F7 valve is used in an interesting way—the pentode section as an i.f. amplifier, and the triode section as second detector. A 6A7 is used as mixer-oscillator, and a 42 as output pentode. This set is quite simple

and cheap to build, and provided a good outdoor aerial is used will bring in overseas stations at good speaker volume.

Another practical article which those interested in power amplifiers will find of great interest is that entitled "Direct-coupled Driver for 250's in Pushpull." Both direct coupling and resistance capacity coupled pushpull—two audio systems particularly noted for giving high fidelity of reproduction—are used in this amplifier. A type 24 high gain audio stage is direct coupled to a 56, which in turn drives a pair of 250's in resistance pushpull. The article contains a full explanation

(Continued on page 45.)

Build Your....

'Comet Superhet Five'

with our guaranteed kit of parts, and be assured of obtaining the outstanding results given by the original.

Features of Our Kit:

- ★ Coils are accurately matched, and all connections clearly colour-coded.
- ★ Chassis is ready—stamped and drilled, ready for mounting components.
- ★ All resistors and condensers are carefully tested, and a colour-coded indicator card is supplied to enable resistor values to be ascertained.
- ★ Kit is complete with valves and speaker, and a generous supply of bolts, solder lugs, and wire.
- ★ If desired, the main components will be mounted on the chassis free of charge for those purchasing a complete kit.
- ★ The construction of the "Comet" is described in detail in the November "Radio Times," but we will gladly supply any additional information that may be required.
- ★ We guarantee that any constructor building this receiver will obtain results equally as good as those given by the original, provided normal care is taken with the assembly.

Complete Kit of Parts£12/10/-

F. J. W. FEAR & CO.,

63 WILLIS ST., WELLINGTON

(Telegrams "Fear")