## COMMERCIAL TX For TOP BAND

THE NEW "K.W. ONE-SIXTY"

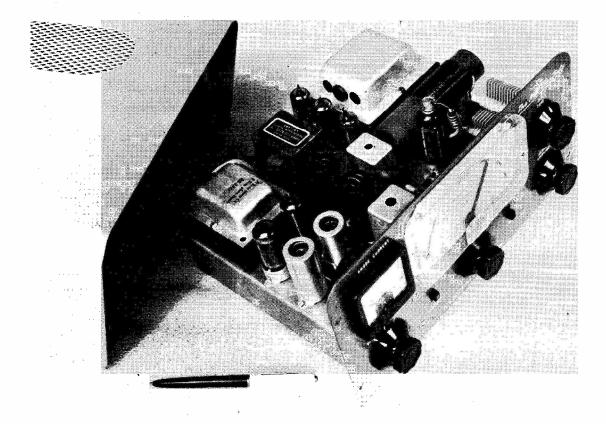
A recent product in the K.W. Electronics, Ltd., range of amateur-band equipment is the "K.W. One-Sixty"—a self-contained CW/Phone transmitter for Top Band, needing only an AC mains lead, aerial, microphone and/or key to put a 10-watt signal on the air.

It is a neat and compact piece of equipment, as can be seen from the photograph below and the illustration on the next page. Dimensions are 12 ins. wide by 6 ins. high and 10 ins. from back to front. The "K.W. One-Sixty" modulates fully at the 10w. input, the quality being rated on the air as "excellent." The CW output is T9x, with complete cut-off when the key is up.

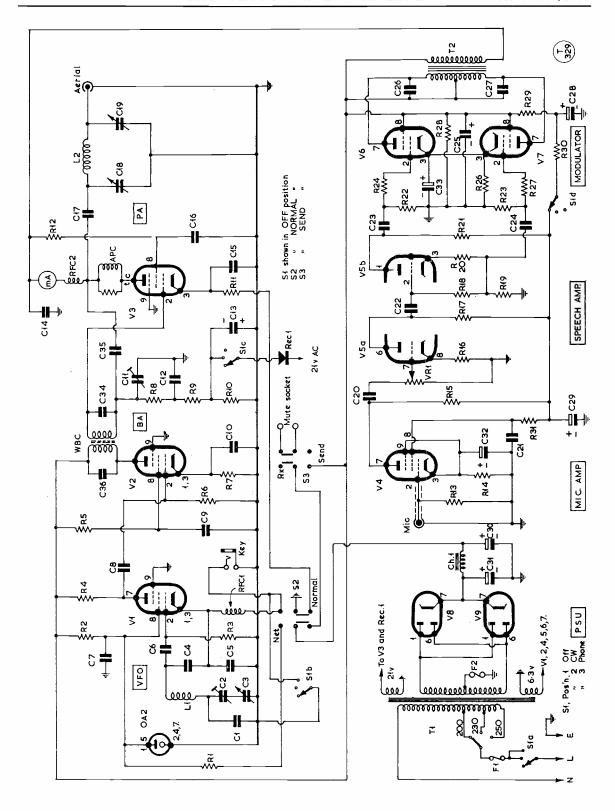
The VFO scale, about 6 ins. long, is clearly and accurately calibrated; the netting switch brings in VFO alone, which can be set spot-on the required

frequency. Using the normal pi-tank output arrangement, the PA can be matched into a wide range of end-on aerials—though it is, of course, better to go into the aerial through an ATU.

All external connections—mains lead, aerial, key, microphone and muting socket (operated by the send-receive switch on the front panel)—are carried on the rear chassis drop. This makes for clean and tidy installation. Controls are well set out, operation is simple, and altogether the "K.W. One-Sixty," in its smartly-styled cabinet, is a very nice piece of gear to have available for 160-metre working. The circuit of the transmitter, with all values, is given overleaf. Features to notice are that the VFO is on a stabilised line, two 6X4's are used for power supply, and the function switch cuts HT to speech amplifier stages and modulator screens when on CW. [see circuit p.482]



Interior view of the new "K.W. One-Sixty" Transmitter, which is a neat and compact job, right up to the K.W. Electronics' high standard for design, finish and performance. The speech amplifier gives ample gain with any standard crystal microphone, the CW output is particularly clean, and the VFO sets accurately while being immune from PA pulling. The meter reads PA plate current, the knob beneath giving "off," and phone/CW selection. The VFO dial is 5 ins. wide, the control being the central knob along the lower panel edge. At right are the PA tune and aerial coupling controls (C18 and C19 in the circuit diagram). A slide-switch (left, S3 in the circuit) gives send-receive control, the right-hand slide-switch below the VFO dial being S2, the VFO net control.



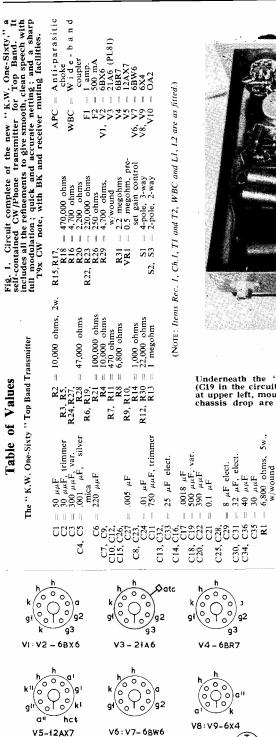
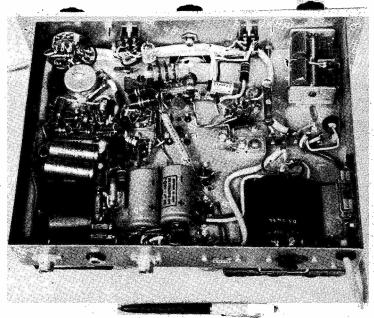


Fig. 2. Base connections of the valves used in the "K.W. One-Sixty" transmitter. Note that for V3, the PL81 in the PA is the equivalent of the 21A6 shown here.



Underneath the "K.W. One-Sixty" transmitter. The output coupling condenser (C19 in the circuit) is top right, and the pre-set audio gain control potentiometer is at upper left, mounted through the chassis, near the function switch. Along the rear chassis drop are the microphone and key inlets, the aerial socket and Rx-mute connector point.

## CLEANING UP FORTY

From comments and discussion in overseas Amateur Radio publications, we are glad to see that the attack on the 40-metre BC stations is gathering momentum. Not only should the frequencies they occupy in the 7000-7100 kc band be used as much as possible, but the flow of individual letters of complaint be kept up. By this is meant that a single letter on behalf of, say, a 25-member club group is that much less effective than a letter from each of the 25 members individually. By the same token, letters from a lot of clubs and their members will do far more real good than one official complaint "through the usual channels" on behalf of U.K. amateurs as a body. This is a campaign in which quantity counts more than any other factor. The addresses to which to write are: Mr. R. Ahmed, Director-General, Radio Pakistan, 71 Garden Road, Karachi 3, Pakistan; Mr. M. M. Taifour, Controller of International Relations, U.A.R. Broadcasting Corporation of Cairo, 4 Sherifein Street, Cairo, Egypt; and Mr. Fang Chiung, Director, International Liaison Dept., Broadcasting Administration, People's Republic of China, Peking.

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