



TUBES

# HAM NEWS

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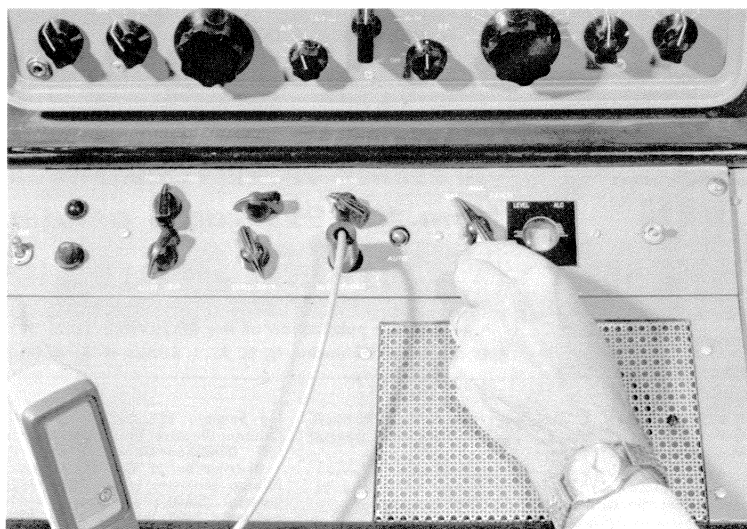
## THE OMNIVOX

**THE OMNIVOX** is a feature packed simple, flexible audio preamp/vox/transmitter control and phone patch unit. Integrated into this design project are the following author's dozen features:

1. 6BN6 gated beam VOX tube for positive anti-trip.
2. Automatic Level Control (ALC) of audio amplifier for uniform modulation from microphone and telephone inputs.
3. Hybrid phone patch with 6AL7-GT twin indicator tube to monitor voltage into line and ALC operation.
4. Individual phone and master gain controls.
5. Adjustable VOX Sensitivity, anti-trip and holding time controls.
6. Manual or automatic VOX control.
7. Shaped audio band-pass from 250-3000 cps.
8. Visual indication of ALC bus voltage.
9. Visual indication of "zero-beat" for on-the-nose net operation.
10. Peak compression circuit.
11. Zero audio output until control relay operates.
12. Speaker output attenuated automatically in "Patch On" position.
13. Auxiliary audio output position (with attenuated speaker output) for recorder or oscilloscope.

(continued on page 2)

**W4PFQ MONITORS PHONE PATCH** being handled through the OMNIVOX (just below receiver) installed in his station. Operating console also includes transmitter exciter (next to receiver), and — on lower level — speaker, power control panel (center) and audio system for transmitter. Large cabinet at left houses a final amplifier with pair of 6L-813's, plate modulator and power supplies. W4PFQ operates principally on double sideband.



**CLOSE-UP VIEW** of the OMNIVOX centered on a 3½ x 19-inch rack panel. Switch, fuse and pilot light at left control external power supply for the OMNIVOX.

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