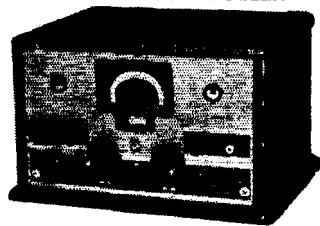


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**FOR
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"squeal," the cathode tap on the coil should be moved nearer the grid, or top end. If on the other hand, the signals are received but it is found impossible to stop the regenerative whistle by rotating C_3 , the tap should be moved nearer the ground end of the coil. Since 'phone signals are always received with the regeneration control at slightly lower capacity than the point at which the set goes into regeneration, and c.w. signals are always received with the condenser at slightly higher capacity than this point (except when very strong signals are being received), it is very desirable to have the set begin to whistle on a received station at a point near the middle of the capacity range of C_3 .

The coils are designed so that each amateur band is spread over a large part of the dial range. In order to set condenser C_1 to the proper position for coverage of a band, therefore, C_2 should first be set to minimum capacity (condenser open), and C_1 should be rotated from minimum capacity toward maximum until the high-frequency edge of the amateur band is reached. During hours of great activity for a desired band, no difficulty should be experienced in recognizing the change from commercial signals to those of amateur stations. When the position of C_1 corresponding to the high-frequency edge of the band is found, the condenser should be adjusted to a slightly lower capacity, in order that a small margin on each end of the band will be available on the tuning dial.

A suitable antenna length for this receiver is 50 feet, although other lengths may be used. It is important that the antenna for this type set be non-resonant on the amateur bands, for difficulty is otherwise experienced in holding the regeneration of the receiver at a fixed level. A resonant antenna does not make the use of the set impossible, but operation in the amateur bands is more convenient with an antenna resonant at points outside the bands. If it is desired to use an end-fed antenna which is designed for transmitting, the change-over switch should be connected to the receiver by a five-to ten-foot wire, so that the combination of the connector and the antenna proper will be tuned to lower frequencies than the amateur bands.

Despite the simplicity of the set, it is a highly satisfactory regenerative receiver of its type and the performance which may be obtained with reasonable care in construction more than justifies the small amount of time and effort required.

Gang Tuning for the Multi-Stage Transmitter

(Continued from page 11)

adjusted so that it is connected across a smaller portion of the coil. Each adjustment of the tap will have some effect upon the minimum capacity of the circuit so that each time an adjustment is made it will be necessary to return the tuning to the high-frequency end of the band and retune for this end of the band before again checking the low-frequency end.