

2. Unlock DIAL SET control.
3. Rotate DIAL SET control until the 100 kc calibrator marker is zero-beat in the -200 increment.
4. The receiver is now tuned to 14.0 mc., and by rotating the MAIN TUNING control, reception is possible up to 14.2 mc.
5. Use the same procedure to cover various segments of other bands, either below or above the normal segments. (See Frequency Coverage Chart.)

WWV RECEPTION WITH 600-R/600-T/SWAN TRANSCEIVER COMBINATIONS:

Time signals from the Bureau of Standards WWV and WWVH may be received at 10, 15, 20, and 25 mc. with the 600-R and 600-T combination. If the 600-R is mated with a Swan Transceiver, 10, 15, and 20 mc. may be received. Both units, or the 600-R and Swan Transceiver, are required since it is necessary to tune the 600-R PRESELECTOR control to the WWV signal frequency, and use the 600-T or Swan Transceiver VFO for heterodyne injection. The VFO selector switch on the 600-R must be set to "XCV-T" position.

WWV Freq.	600-T Main Tuning Dial	Swan Transceiver Tuning Dial	600-R Bandswitch	600-R Preselector
10 mc.	21.0 mc.	21.0 mc.	7.1 or 14.2	10 mc.
15 mc.	4.0 mc.	4.0 mc.	14.2	15 mc.
20 mc.	*7.25 mc.	*7.25 mc.	21.3	20 mc.
25 mc.	*4.25 mc.	Not within Range	10M	25 mc.

*2nd harmonic of VFO frequency is used for heterodyning to the signal frequency. For example: $7,250 + 5,500 \text{ kc} = 12,750$, the 600-T VFO frequency. $2 \times 12,750 = 25,500 \text{ kc}$ and $25,500 - 5,500 = 20,000 \text{ kc}$, WWV.

Reception of WWV signals in this manner points up the versatility of the 600-R/600-T/Swan Transceivers combination. Because the 600-R PRESELECTOR tunes continuously from 3 to 30 mc., a fairly wide number of ranges are available outside the amateur bands by using the 600-T/Swan Transceiver VFO. The PRESELECTOR circuits of the 600-R may be tuned 5500 kc above or below the 600-T/Swan Transceiver VFO frequency to receive signals. In addition,

the PRESELECTOR may be tuned 5500 kc above or below the second harmonic of the 600-T/Swan Transceiver VFO. A certain amount of calculating is required, and naturally the Swan Model 330 General Coverage Tuner is more satisfactory for those who wish a fully calibrated dial scale with full coverage from 3 to 30 mc. Refer to your Swan Catalog or Swan distributor for complete data on the 330 tuner.