

Notes

MIC GAIN Settings: In LSB and USB the MIC GAIN setting needed for the desired drive will be little changed with the Tubesters installed. However, in TUNE, LOCK KEY and CW the control will have to be turned farther Clockwise. THIS IS NORMAL. In these modes the audio is bypassed, and MIC GAIN simply varies a potentiometer that has been switched into the cathode of V6. It takes less "cathode" resistance to cut back the gain of the ST306 Tubester, and any MIC GAIN setting needed up to nearly fully Clockwise is ok.

KEYING SHAPE Settings: With the ST305B at V5, second mixer (the stage that is "grid-block" keyed in the Collins), the normal range of hard-to-soft keying is available by setting the Keying Shape control from about "ten o'clock" for "hard", on around to fully clock-wise for maximum "soft". Setting the control further counter-clockwise than about "ten o'clock" may result in mild key clicks.

ALIGNMENT TIPS: If the RF Trimmer adjustments are so far out that no drive indication is found on the 32S-3 meter, use the 75S- receiver as a signal strength meter: With a short wire or no antenna, tune in the transmitter's signal, then peak the trimmers for maximum S-Meter reading. The receiver can also replace the "RF Voltmeter" and the "general coverage receiver" called for by the Collins manual for these alignments:

Carrier Balance: With the 32S-3 in LSB or USB, any frequency, MIC GAIN OFF, PTT ON, tune in the signal (residual carrier) on the receiver, null it with R14 and C11 "CARRIER BAL".

First Mixer Balance: Tune the 32S-3 on 21.1 Mhz, LOCK KEY, with a small amount of drive. With the receiver find a signal at 21.556 Mhz; it will be weak and some antenna will be needed. This is the BFO riding through. Null the signal with R27 and C26, "1st MIX BAL"

WARRANTY

Tubesters are guaranteed free from defects and to operate properly when delivered; any defective units will be replaced immediately at no cost, postage paid within the USA. In addition, the Tubesters are warranted for an extensive service period, as follows:

Within one year after delivery, any Tubester that fails under normal operating conditions will be repaired or replaced at no charge except for a \$2 handling and postage fee.

Beyond the one year full coverage period, any Tubester that fails under normal operating conditions will be repaired or replaced for 50% of its list price plus \$2 mailing. This extended warranty will remain in effect for so long as the Tubester market makes possible continued manufacture and sale of these products by Skytec.

THIS WARRANTY IS MADE TO THE ORIGINAL TUBESTER PURCHASER; IT IS NOT TRANSFERABLE.

End of Manual

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