

SB-009

TS-820 Speech Processor Alignment

11-17-76

The following alignment procedure may be used in lieu of the one in the Service Manual.

Test Equipment required:

Audio Signal Generator
Audio VTVM
Oscilloscope or RF VTVM

1. Preliminary control settings:
Screen grid switch off.
Mode switch to USB.
Comp Level to USB.
Processor SW to Pull "ON".
Meter switch ot "Comp".

Send/Rec switch to "Send" as required when making adjustments.

2. Apply 1500 Hz audio signal to the mic jack at 10mv level.
Connect RF VTVM or scope to TP-2.
Adjust T-11, 12, 13, for maximum level on the S-meter.
Adjust T-14 for maximum level on scope or VTVM at TP-2.
3. Turn compression level to min, (CCW).
Reduce audio sig at mic jack to 0.3 mv.
Adjust TC-4 (Freq response for speech processor) so that level at TP-2 is not changed when changing audio gen from 400 Hz to 2000Hz.
4. Turn compression level to max, (CW)
Set audio gen to 1500Hz at 0.3 mv.
Adjust TC-3 and VR-6 (carrier bal for speech proc) for maximum level at TP-2.
5. Set audio gen to 10 mv at 1500Hz
Send/Rec switch to send
Adjust VR-7 (comp level for speech processor) so that the level at TP-2 is not changed when turning the processor on and off. VR-7 should be adjusted for the particular microphone the customer will be using with his TS-820.

6. Finally check for non distortion of signal, and that comp level of 20db can be obtained at full comp on.

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