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Pearce Simpson Escort II Owners Manual Addendum
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ADDENDUM TO TUNE-UP PROCEDURE FOR DIRECTOR & ESCORT II

4.5.2.1 GENERAL

The DIRECTOR and ESCORT II transmitters have been carefully tuned and loaded at the factory for maximum legal power input of 5 watts and an output of 2.5 watts when operating into a 52-ohm resistive load. The transmitter has also been tuned so that it will work into an antenna which has a Standing Wave Ratio no greater than 3:1. If the SWR is greater than 3:1, the antenna system should be corrected before proceeding.

4.5.2.2 ALIGNMENT

NOTE - DO NOT align transmitter without the proper test equipment (see 4.5) to observe the modulation envelope. Misadjustment can cause off-frequency operation.

A. Connect a 52-ohm load to the antenna connector. (See Figure 4.5 for Dummy Antenna)

B. Connect a 0-1 amp DC meter to the collector current jack.

C. Preset the following adjustments:

T-12	SLUG	3 Turns in From Top
L-6		No Tuning; If Model With Slug, Remove Slug
L-7	SLUG	Top
C-50		1/2 Turn From Tight

D. T-10 and T-11 have been carefully tuned at the factory. Do not make field adjustment. The only exception is when it becomes necessary to replace one of the two transformers, and then only make adjustments with extreme care.

WARNING

Improper tuning of T-10, T-11 will cause off-frequency operation.

Adjust top and bottom slugs of T-10 and T-11 for maximum signal at the base of Q-14. The signal may be measured with an oscilloscope or AC-VTVM which have high impedance low capacity probes.

E. Adjust T-12 for maximum signal at the base of Q-15 as measured with an oscilloscope or an AC-VTVM.

F. Connect the RF pickup loop to the oscilloscope and place the loop on, or near L-7 (Pi-net coil). If a high frequency scope with a low capacity probe is used, then connect to antenna connector terminal.

G. Turn slug in T-12 in or out in small steps until maximum power is indicated on the wattmeter or oscilloscope.

ADDENDUM (Continued)

- H. You will now note that the collector current of Q-15 will be excessive. Turn slug of L-7 in until 420 ma is drawn. This is the collector current for proper loading.
- I. Connect an audio generator between the white microphone lead and ground, and set for 1000 cps at a sufficient level to produce 100% modulation.
- J. Adjust C-50 slightly for clean modulation envelope.
- K. Without modulation, re-adjust L-7 for 420 ma collector current.
- L. Repeat Steps I thru K until properly loaded with clean modulation envelope.

4.5.3 TRANSMITTER LOADING

- A. If transmitter is properly aligned using a 52-ohm dummy load, then it should require no more tuning when connected to a 52-ohm antenna with an SWR of 3:1 or less.
- B. If tuning is necessary, proceed as in Steps I through L of Paragraph 4.5.2.2