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TECH-NIQUE

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A communication of vital interest to every Courier dealer

S-246

3/7/74

SUBJECT: SSB TRANSCEIVERS - MODIFICATION FOR 12 WATT
P. E. P. RF OUTPUT ON SSB MODE

New F. C. C. rules allow 12 watts Peak Envelope Power (P. E. P.) output on single side-band transmitters now in use on the 11 meter citizen's band. A simple conversion to the higher power level is accomplished by the following procedures. Only a First class or Second class FCC license-holder may legally perform these adjustments. RF power output level must be verified by the technician to assure power output does not exceed F. C. C. limits -

A. GLADIATOR: Advance VR-12 (Automatic Level Control "ALC") and VR-15 microphone preamp gain control. Using two-tone modulation and test equipment set-up as shown on Page 23 of the Gladiator Service Manual (LI-422), verify the transmitter's PEP output by following the test procedures beginning on Page 24 of the manual.

B. CENTURION: Follow same procedure as Gladiator above. Replace power supply rectifiers (4) (D-68, D-69, D-70 & D-71) with 100 p.i.v., 2 amp. rectifiers, (Courier Part #DI-12 or equivalent).

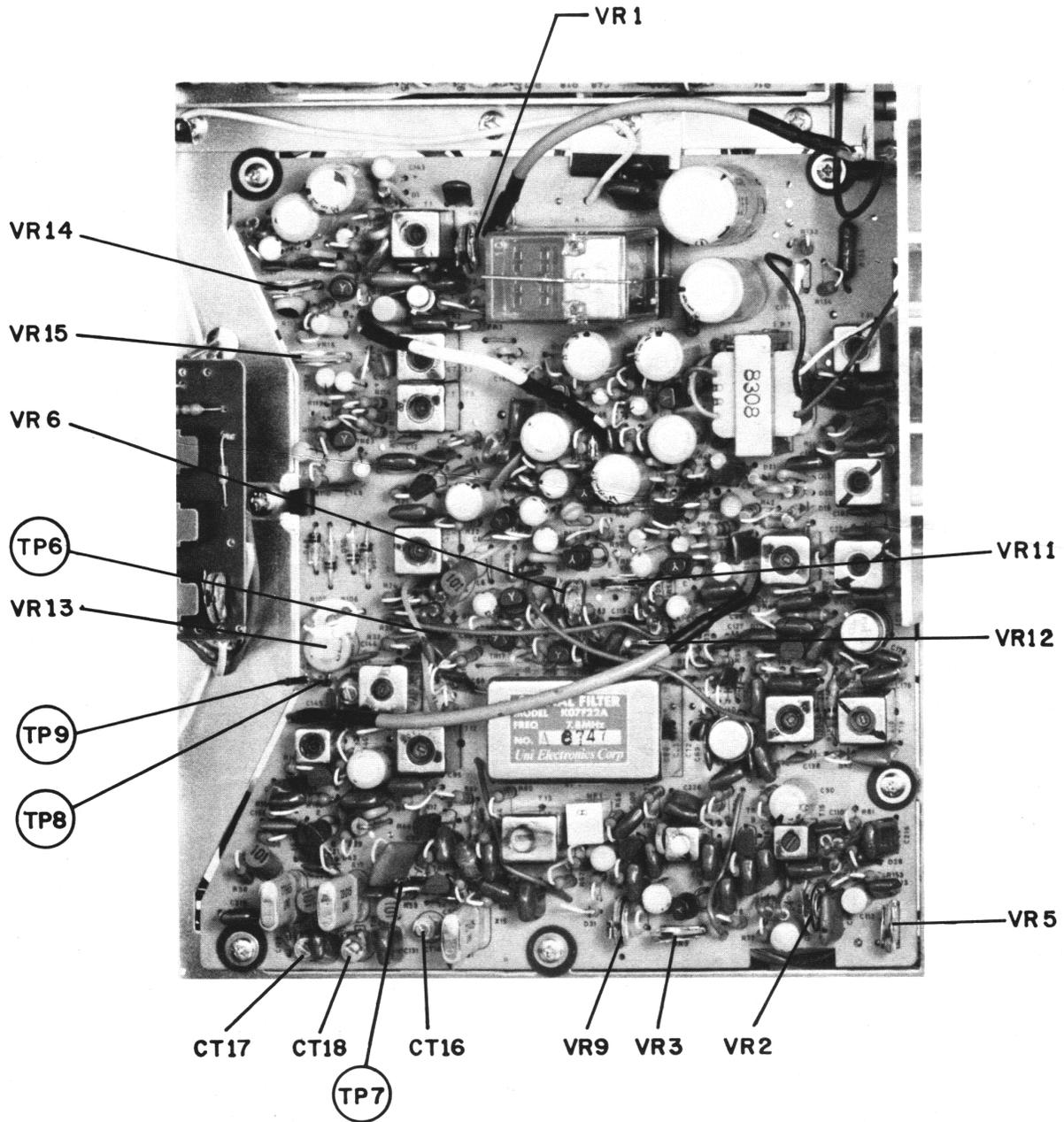
C. SPARTAN: Using same test equipment set-up as (A) above, advance VR-11 (microphone preamp gain control and VR-9 (Automatic Level Control, "ALC).

The above adjustments have no effect on the "AM" RF Power FCC requirements.

Ray Dashner

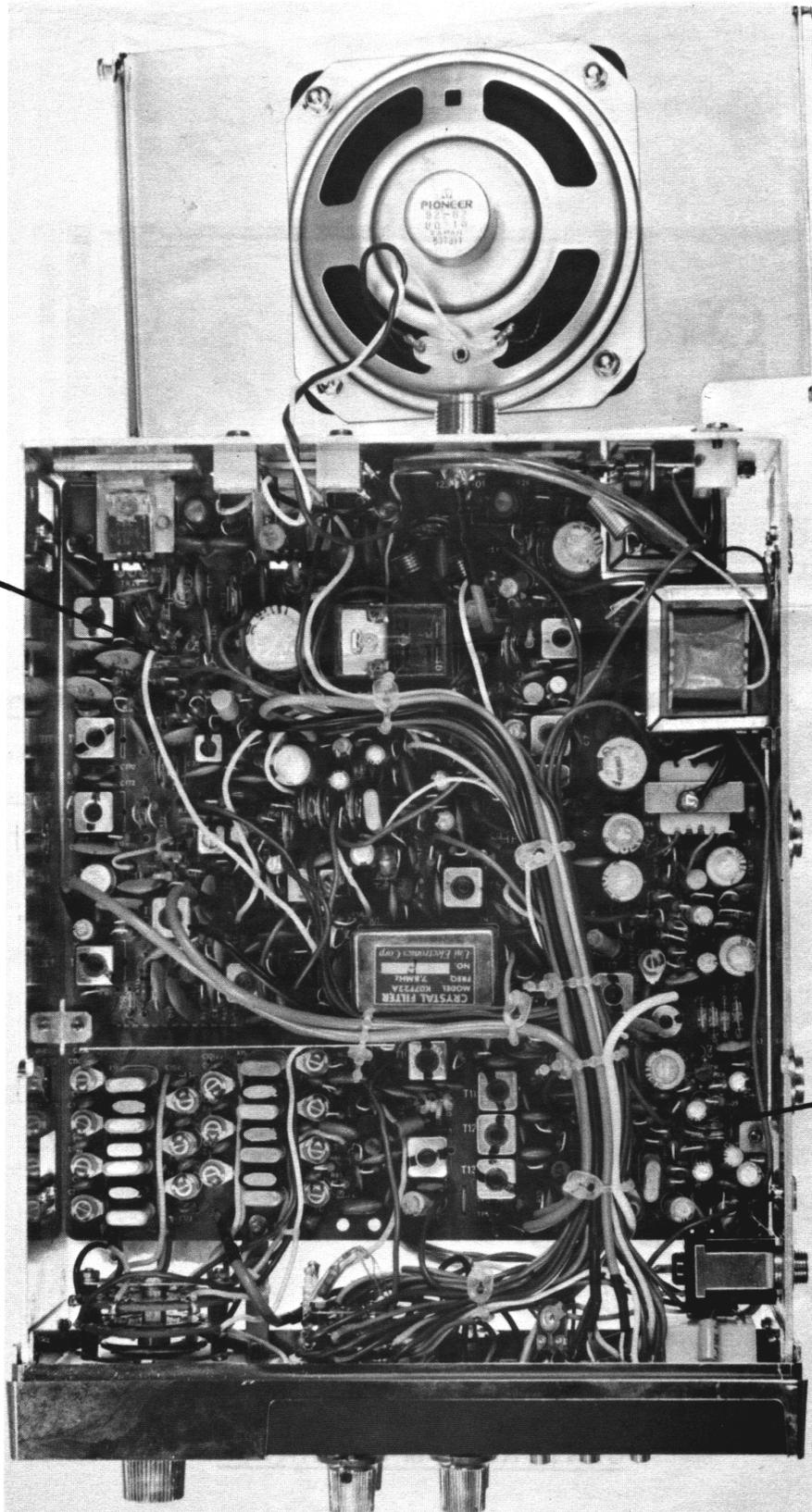
Ray Dashner

RD:rt



CENTURION & GLADIATOR

VR-9



VR-11

SPARTAN