

**RADIO SET SCR-506-A**

For additional information refer to pages covering the BC-653-A and BC-652-A.

Reference: TM 11-630

**MAINTENANCE HINTS**

**REDUCTION OF POWER OUTPUT.** Instructions previously issued limit the maximum power output to be employed on tactical radio sets for training purposes to 100 watts, and further specify that the lowest power practicable should be employed at all times.

The power output derived from Radio Transmitter BC-653 is determined by the setting of the "POWER AND EMISSION" switch. There are five positions of this switch, marked from left to right: "OFF", "CAL & NET", "C. W.  $\frac{1}{4}$ ", "C. W. FULL", and "PHONE".

(a) Setting the "POWER AND EMISSION" switch to either "C. W.  $\frac{1}{4}$ " or "PHONE" positions results in a reduction of voltages in the intermediate power-amplifier plate, the final power amplifier plate, and the final power amplifier screen grid circuits. After normal tune-up procedure has been performed, with switch set in this position, a power output of from 12 to 22 watts (CW) will be obtained.

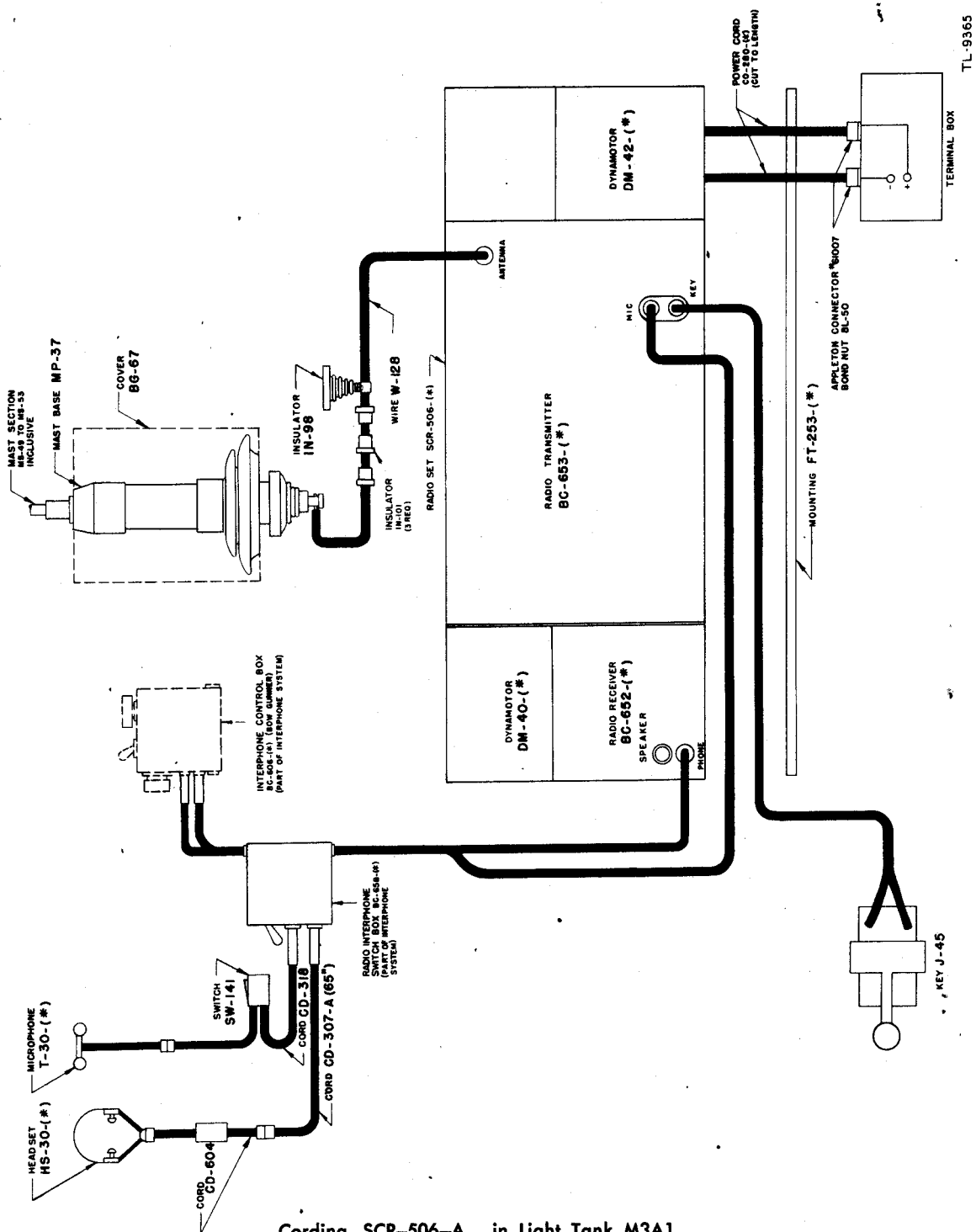
(b) Setting the "POWER AND EMISSION" switch to "CAL & NET" provides suitable means for the calibration of the master oscillator and the present channels.

(c) Setting the "POWER AND EMISSION" switch to "C. W. FULL", after normal tune-up procedure, will provide a power output of from 50 to 90 watts in CW operation.

(d) Setting the "POWER AND EMISSION" switch to "PHONE", after normal tune-up procedure, will provide a power output of from 12 to 22 watts in phone operation.

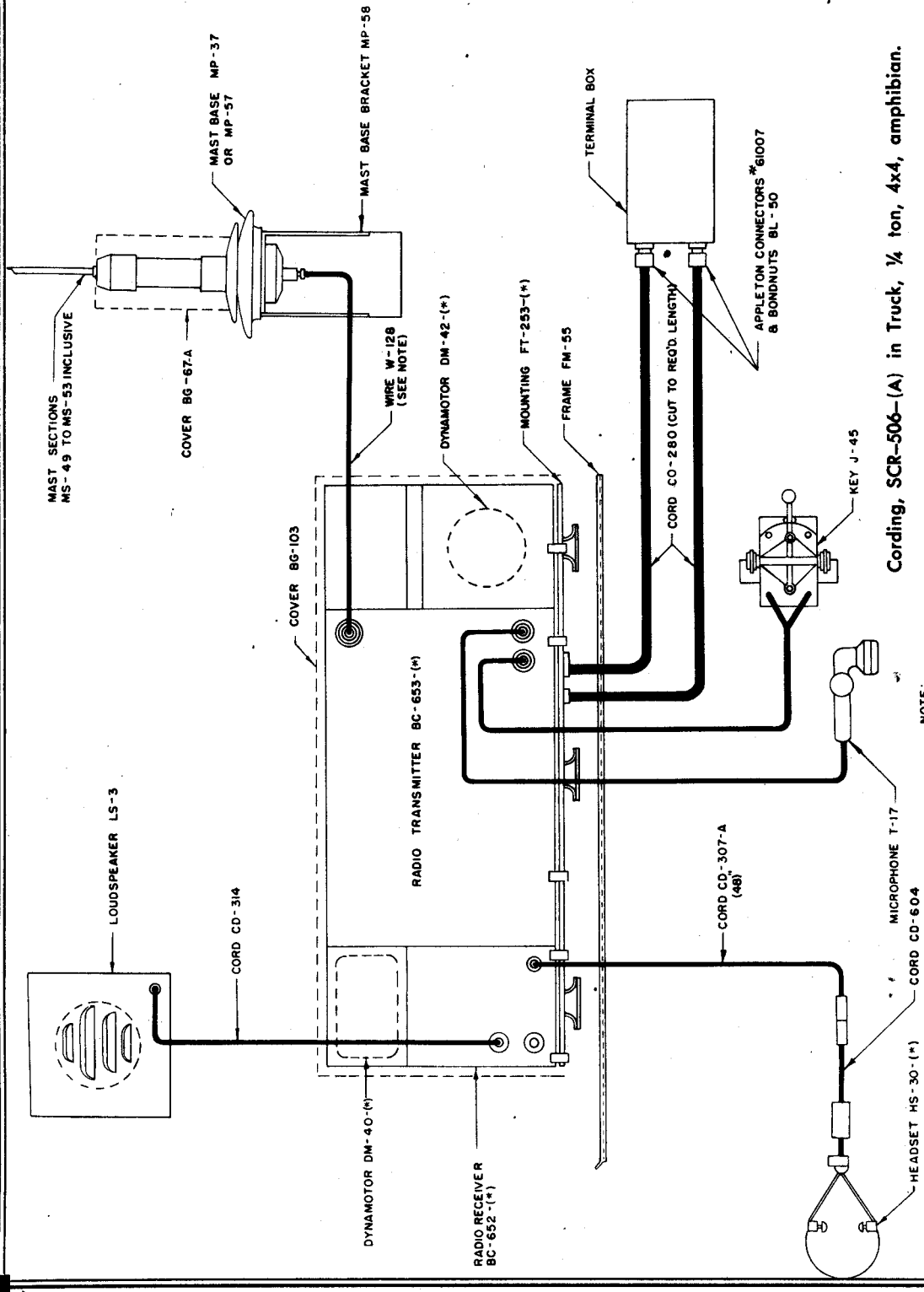
Ref: Supply Letter No. 140, OCSigO, 17 July 1943.

CORDING DIAGRAM



Cording, SCR-506-A in Light Tank M3A1.

CORDING DIAGRAM



Cording, SCR-506-(A) in Truck, 1/4 ton, 4x4, amphibian.

NOTE: ENDS OF WIRE W-128 AFTER BEING CUT TO PROPER LENGTH SHALL BE TINNED FOR CONNECTING TO BINDING POSTS

TL-9366