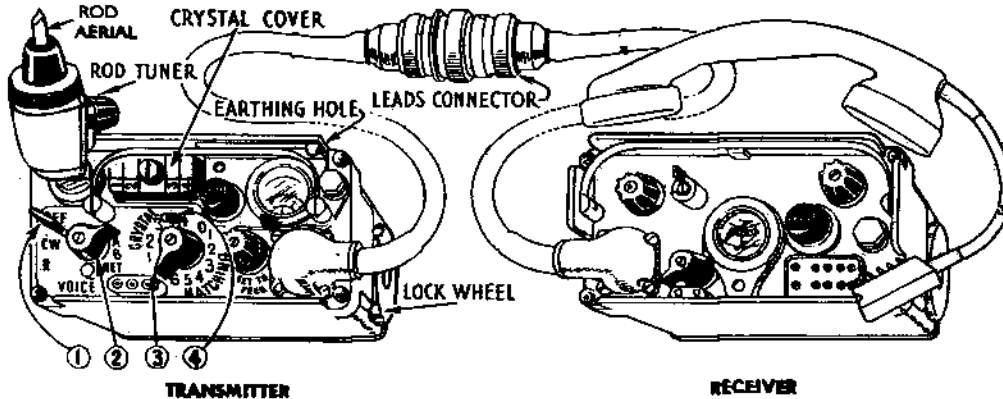


Z1/TSE(W)8-522 CHARTS INSTRUCTION  
A510 WIRELESS STATION

DAD

I — CHECKS

1. **CRYSTALS:** Lift transmitter handle and unscrew crystal cover. Plug crystals of required frequencies into sockets. Replace cover, ensuring correct seating and screw down firmly.
2. **FIT BATTERIES:** Turn set units over and rotate wheels to unlock battery compartments. Remove covers. Fit batteries—LT in Receiver, HT/Bias in Transmitter, after connecting by battery plugs. Replace covers and lock.
3. **TEST BATTERIES:** Screw transmitter and receiver leads connector firmly together. Set switch 2 to NET.  
 Lt Battery—Set Switch 1 to CW—meter should read within short red band on scale.  
 HT/Bias Battery—Set switch 1 to VOICE—meter should read within long red band on scale.
4. **SWITCH OFF:** By setting switch 1 to OFF.



II — SETTING UP

1. Screw transmitter and receiver leads connector firmly together.
  2. Plug headgear and/or handset into receiver.
  3. Select crystal of ordered frequency (switch 4).
  4. Set transmitter and receiver dials to approximately ordered frequency.
  5. NET receiver to transmitter by—
    - (a) Switch to R (Switch 1).
    - (b) Switch to NET (Switch 2).
    - (c) Carefully rock receiver tuning dial about ordered frequency (volume turned right up) until a whistle is heard. Reduce the whistle to a low growl by further tuning.
    - (d) Carefully lock receiver dial without altering note.
  6. Set matching switch (Switch 3) to 0.
- WITH GREAT CARE

# A510 WIRELESS STATION

## III — OPERATING

### Rod Aerial Station

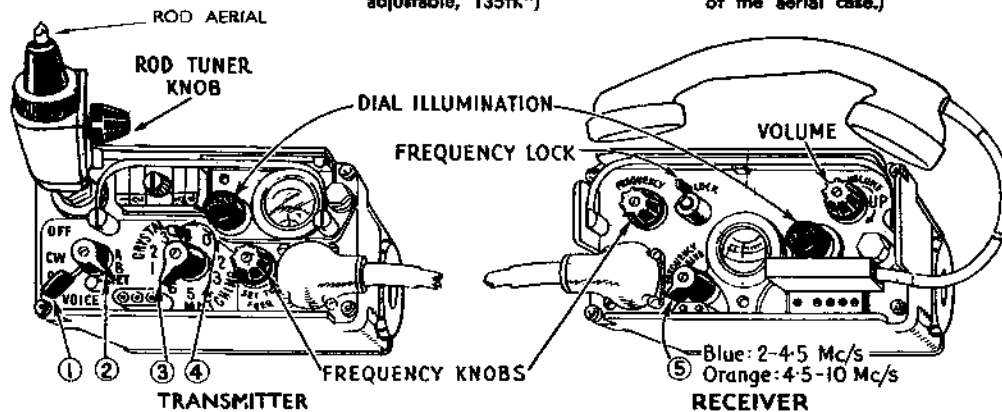
1. Set switch 2 to: "B"
2. Fit "Inductors, Tuning 8ft., Flexible Aerial" (referred to as Rod Tuner) to aerial base and insert "Aerials, Flexible 8ft., (Aust.)". For static positions, put "Counterpoise Assembly" spike into ground, spread long earth leads in a rough cross and connect short earth lead to set earth terminal.

### Enfed Wire Station

- Set switch 2 to: "A" or "B"
- (According to chart on spool of "Aerials, Adjustable 135ft.") Use condition "A" wherever possible. Unwind wire from spool until sufficient links are available as indicated by chart. Erect aerial with spool end anchored by "Counterpoise Assembly" spike and opposite end as high as possible supported by "Cords Aerial, Weighted". Connect the orange aerial wire to aerial terminal on set. Spread "Counterpoise Assembly" wires in a rough cross, connecting the short lead to set earth terminal. (An illustration of this set-up will be found on the spool of "Aerials, adjustable, 135ft.")

### Dipole Aerial Station

- Set switch 2 to: "B"
- Unwind length of aerial wire as shown inside flap of "Aerials, Lightweight 68ft." (Red markers are 1ft. apart.) Knot the aerial wire through nylon links on the aerial case. Connect free ends, one to each terminal on the spool for "Feeders, aerial 70 ohms". Knot through holes to take strain. Tie one halyard to nylon link on each "aerial, lightweight 68ft." case. Erect aerial. Connect one end of "feeder, aerial 70 ohms" to aerial terminal on set and the remaining end to set earth terminal. (An illustration of the Dipole Aerial Station set-up will be found inside a flap of the aerial case.)



3. Tune Aerial.
  - (a) Hold switch 1 to VOICE and adjust Transmitter to maximum meter reading by:
 

Adjusting Rod Tuner Knob	Adjusting Matching Switch 3	Adjusting Transmitter Frequency Dial near Ordered Frequency.
about Ordered Frequency.	and Readjusting Transmitter Frequency Dial near Ordered Frequency.	
  - (b) Allow switch 1 to return to R.
4. Station is now ready to operate.
 

To TRANSMIT voice, move switch 1 to VOICE and speak.

To RECEIVE, move switch 1 to R and listen, adjusting volume control for comfort.
5. CW WORKING:
  - (a) Plug in key—there will be no note heard until this is done—switch 1 to R.
  - (b) When other station is heard, adjust note to desired pitch by carefully adjusting receiver frequency dial, then lock.
  - (c) To TRANSMIT CW, move switch 1 to CW and operate key.

NOTE—Before returning to voice working, key plug must be removed.

SWITCH OFF AFTER USE—KNOB 1 TO OFF.