

OPERATION OF WIRELESS STATION A510 WITH DIPOLE AERIAL

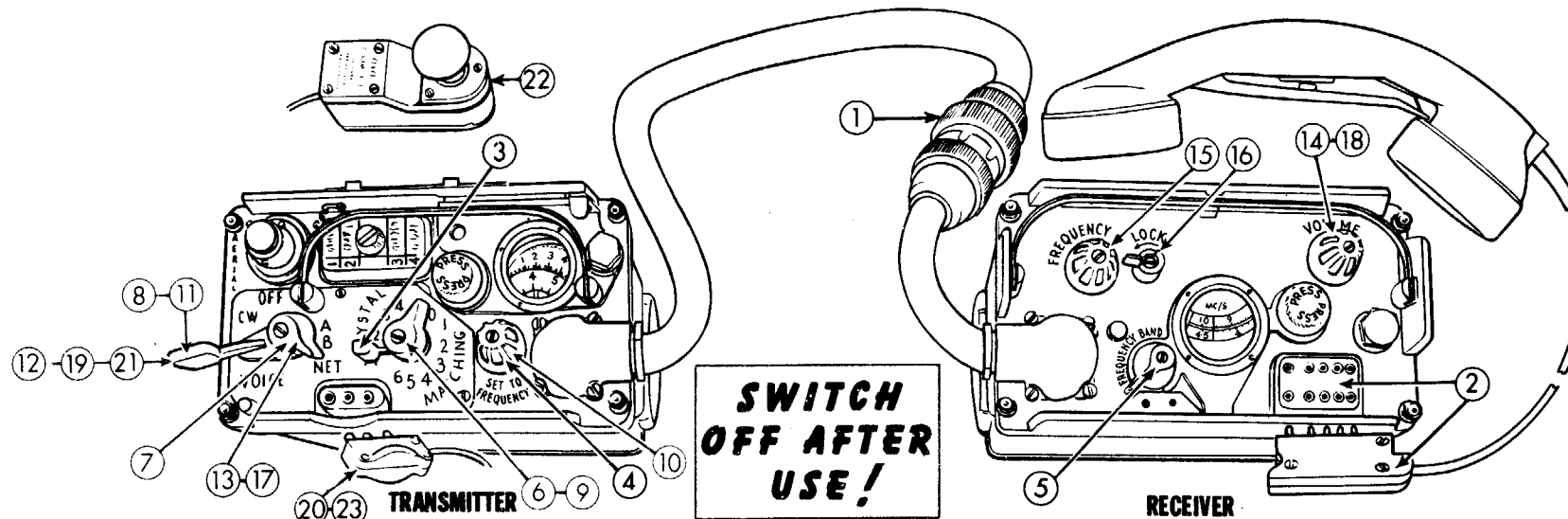
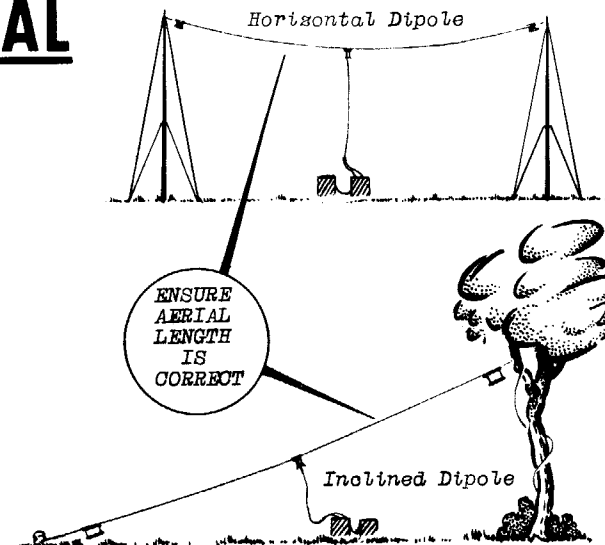
SETTING UP RECEIVER A510 AND TRANSMITTER A510

- ① **INTERCONNECTING PLUG AND SOCKET.**
Join, and screw firmly together.
- ② **RECEIVER - HANDSET AND HEADSET.**
Plug either or both in sockets.
- ③ **TRANSMITTER - CRYSTAL SELECTOR SWITCH**
Select crystal of ordered frequency by turning to number corresponding with number and frequency shown on cover for crystal units.
- ④ **TRANSMITTER - FREQUENCY CONTROL KNOB**
Turn to set transmitter to ordered frequency.
- ⑤ **RECEIVER - FREQUENCY BAND SWITCH**
Set to appropriate band - BLUE - 2-4.5 Mc/s. ORANGE-4.5 to 10 Mc/s.

FREQUENCY RANGE
3.3 - 10 Mc/s.

TUNING TRANSMITTER A510

- ⑥ **MATCHING SWITCH** - Set to "0".
- ⑦ **A-B-NET SWITCH** - Set to "B".
- ⑧ **FUNCTION SWITCH** - Hold on "VOICE".
- ⑨ **MATCHING SWITCH** - Turn until maximum reading obtained on aerial tuning meter. "0" IS INVARIABLY BEST POSITION WITH DIPOLE AERIAL.
- ⑩ **FREQUENCY CONTROL KNOB** - Slightly re-adjust for maximum reading on aerial tuning meter.
- ⑪ **FUNCTION SWITCH** - Allow to return to "R".



NOTE ONE

When changing frequency, dipole aerial lengths must be altered to agree with chart inside dipole case. Also, EXACT LENGTHS MUST BE USED.

NOTE TWO

If HORIZONTAL dipole used, it does not matter which way aerial is set up. If INCLINED dipole used, however, it matters which way it is set up. ONLY DIST. STATION CAN INFORM YOU WHICH IS BETTER. (Aerial tuning meter is not a reliable guide in the inclined dipole set-up; it is only a guide for it to give a reverse indication to the best connection).

VOICE OPERATION

- ⑫ **TO RECEIVE**
TRANSMITTER - FUNCTION SWITCH.
Turn to "R".
 - ⑬ **TRANSMITTER - A-B-NET SWITCH.**
Turn to "NET".
 - ⑭ **RECEIVER - VOLUME CONTROL KNOB.**
Turn fully clockwise (UP).
 - ⑮ **RECEIVER - FREQUENCY CONTROL KNOB.**
Turn CAREFULLY about required frequency on dial scale until whistle is heard. Reduce to "ZERO BEAT" or "Silent Point" as in diagram below.
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- ⑯ **RECEIVER - FREQUENCY LOCK.**
Turn anti-clockwise CAREFULLY without altering tuning point.
 - ⑰ **TRANSMITTER - A-B-NET SWITCH.**
Turn to "B".
 - ⑱ **RECEIVER - VOLUME CONTROL KNOB.**
Adjust for comfort of hearing.
 - ⑲ **TO SEND**
TRANSMITTER - FUNCTION SWITCH.
Hold on "VOICE". Speak in normal voice, DO NOT SHOUT. If using handset, press pressel switch.

REPEAT AT FREQUENT INTERVALS TO CHECK NET

C.W. OPERATION

- ⑳ **TO RECEIVE**
TRANSMITTER - PLUG FOR KEY.
Plug in and proceed as for "VOICE" operations ⑫ to ⑱. Until key is plugged in distant station will not be heard.
- ㉑ **TO SEND**
TRANSMITTER - FUNCTION SWITCH.
Turn to "CW".
- ㉒ **TRANSMITTER - KEY.**
Send.
- ㉓ **TRANSMITTER - PLUG FOR KEY.**
Remove before returning to "VOICE" operation.

FIG. 32