

TECHNICAL MANUAL

RADIO RECEIVERS, BC-312, -A, -C, -D, -E, -F, -G, -J, -L, -M, -N, -HX, AND -NX; BC-342, -A, -C, -D, -F, -J, -L, -M, AND -N; BC-314, -C, -D, -E, -F, AND -G; BC-344, AND -D; AND RADIO RECEIVER ASSEMBLIES OA-65/MRC-2, AND OA-65A/MRC-2

CHANGES }
No. 2 }

DEPARTMENT OF THE ARMY
WASHINGTON 25, D. C., 8 April 1954

TM 11-850, 3 September 1946, is changed as follows:

15.1 Antijamming Procedures

(Added)

When the radio receiver is being jammed by unwanted signals, the immediate superior officer should be notified promptly. However, the operator must not cease operating the equipment under any condition. One or more of the following procedures may be used for obtaining the maximum intelligibility from the desired signals during the jamming process.

a. AM. Signals Jammed by CW, Pulse, FM, Bagpipe, or Other Type Sharp Noise Signals.

- (1) Detune the receiver several degrees on either side of the desired signal, by using the VERNIER control knob. Some separation of the desired signals and the jamming signals may be affected.
- (2) Operate the CRYSTAL PHASING control knob clockwise, about one-third of a turn. This control is on all Radio Receivers BC-342-(*) and some Radio Receivers BC-312-(*). Operation of the control renders the receiver very selective. Repeat the instructions in (1) above.
- (3) Operate the OFF-M. V. C.-A. V. C. control knob to the OFF position. Repeat the instruction in (1) above. The desired signals may become readable.
- (4) If a whip type antenna is in use, maneuver the equipment so that an object such as a hill, tank, jeep, or tree will be between the receiving equipment and the source of the jamming signals. Change the position of the antenna from a horizontal plane to a vertical plane or vice versa. Do this in gradual stages. The strength of the jamming signal may be decreased and permit copy of the desired signal.
- (5) Change the direction, height, and length of a long wire antenna. This may permit separation of the jamming and desired signals. Repeat the instruction in (1) above.

- (6) If the reception of the desired signals is still unsatisfactory after performing the above procedures, proceed as follows:
 - (a) Request a change of frequency and call sign. Do this repeatedly if necessary. At each change to a different frequency, adjust the ALIGN INPUT control knob for maximum signal strength of the desired signal. It is not likely that the operator of the equipment at the source of the jamming signals, will change frequency.
 - (b) Request the use of CW signals. These signals are less easily jammed.
- (7) Vary the VOL control in both directions. This action may decrease the volume of the jamming signal and permit copy of the desired signal.
- (8) If the jamming action is so thorough that communication is impossible, report the incident to the immediate superior officer and use another means to get the message through. Continue to operate the equipment.

b. CW Signals Jammed by Other CW, Pulse, or Sharp Noise Signals.

- (1) Operate the CW-OSC toggle switch to the oscillator (OSC) position. Clearer desired signals may be obtained. If not, operate the switch to the CW position. Continue varying the switch from one position to the other, at intervals. The desired signal may reach a degree of intelligibility whereby it may be copied.
- (2) Repeat instructions in *a*(1) through (5), (6) (a), (7), and (8) above.
- (3) If it is possible, request the use of voice signals and repeat the instruction in *a*(1) above.

[AG 300.7 (19 Mar 54)]

BY ORDER OF THE SECRETARY OF THE ARMY:

M. B. RIDGWAY,
General, United States Army,
Chief of Staff.

OFFICIAL:

WM. E. BERGIN,
Major General, United States Army,
The Adjutant General.

DISTRIBUTION:

Active Army:

Tech Svc (1); Tech Svc Bd (1); AFF Bd (ea. Svc Test Sec) (1); AFF (5); AA Comd (2); OS Maj Comd (5);

T. O. 31R2-3BC-111
Base Comd (5); MDW (2); Log Comd (5); A (5); CHQ
(2); FT (2); Sch (5) except 11 (25); Gen Dep (2);
Dep 11 (20); except Sig Sec, Gen Dep (10); Tng Div
(2); POE (2); OS Sup Agency (2); Lab 11 (5); Mil
Dist (1); Field Maint Shops 11 (3); T/O & E 11-107,
11-127, 11-128, 11-500A (KA, KB, KC, RA-RR), 11-587,
11-592, 11-597 (2).

NG: Same as Active Army except one copy to each unit.

USAR: None.

For explanation of distribution formula, see SR 310-90-1.