



BC-312-(N)

Figure 36. Radio Receiver BC-312-N.

Status: Standard. *Stock No.:* 2C4312 (includes all suffix letters except models BC-312-HX (Stock No. 2C4312HX.1) and BC-312-NX (Stock No. 2C4312NX)). *Reference:* TM 11-850.

Radio Receiver BC-312-(*) represents Radio Receivers BC-312-A, -C, -D, -E, -F, -G, -J, -L, -M, -N, -HX, and -NX. Radio Receiver BC-312-(*) is a superheterodyne type receiver intended for general field usage. It is ruggedly built; suitable for vehicular, portable, or fixed operation; and battery operated. It is highly sensitive and selective, and is designed for the reception of either c-w, a-m, or tone signals.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE:

- Band A: 1.5 to 3.0 mc.
- Band B: 3.0 to 5.0 mc.
- Band C: 5.0 to 8.0 mc.
- Band D: 8.0 to 11.0 mc.
- Band E: 11.0 to 14.0 mc.
- Band F: 14.0 to 18.0 mc.

NUMBER OF CRYSTALS: 1, except Radio Receivers BC-312-L, -M, -N, and -NX (i-f filter).

ANTENNA: Any suitable receiving antenna.

FREQUENCY CONTROL: Continuous tuning.

POWER SOURCE: 12- to 14-v dc, except Radio Receivers BC-312-HX and -NX, which require 24-v dc.

RANGE: Dependent upon antenna used, frequency, and ionospheric conditions.

NUMBER OF TUBES: 9.

GENERAL APPLICATION

USE: General field usage.

TO COMMUNICATE WITH: Radio Sets AN/GRC-9, AN/MRC-1, AN/MRC-2, AN/VRC-1, SCR-177-B, SCR-188-A, SCR-193, SCR-399, SCR-499, SCR-506-A, and SCR-543-B.

INSTALLATION: Suitable for vehicular, portable, or fixed operation.

TYPE OF SIGNAL: C-w, a-m, or tone.

PRINCIPAL COMPONENTS

| <i>Name</i> | <i>Dimensions (in.)</i> | <i>Weight (lb)</i> |
|---------------------------------|---|--------------------|
| 1 Radio Receiver BC-312-(*). | 10 x 9 $\frac{1}{8}$ x 18 $\frac{1}{8}$ | 58 |
| 1 Dynamotor DM-21 or equivalent | 3 $\frac{1}{4}$ x 5 $\frac{1}{2}$ x 6 | 7 |
| 1 Mounting FT-162 | 1 $\frac{1}{4}$ x 6 $\frac{3}{4}$ x 18 | 3 $\frac{3}{4}$ |

WEIGHT AND VOLUME

| | <i>Unpacked</i> | <i>Domestic pack</i> |
|----------------------------|---------------------------|----------------------|
| Total weight (lb)..... | 68 $\frac{3}{4}$ (approx) | 120 (approx) |
| Total volume (cu ft) | | 5 (approx) |