WIRELESS SET No. 62

DATA SUMMARY

PURPOSE
General purpose, low-power, tropicalized, transceiver, providing R.F. and C.W. facilities. Primarily intended for vehicle station but also man- or animal-pack.

DESCRIPTION

PHYSICAL DATA
Weight: 29 lb.
Height: 8½ in.
Length: 17½ in.
Width: 13½ in.

FREQUENCY
Coverage: 1.6—10 Mc/s in two ranges, 1.6—4 Mc/s and 4—10 Mc/s. (8—10 Mc/s to be used only in emergency.)
Internal: I.F., 460 kc/s.

PERFORMANCE
Sensitivity: 3μV for 10mW and signal/noise of 20db.
Range: 14 miles on R/T, 20 miles on C.W. (14 ft. rod.)

Fig. 1—General view of equipment

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Distribution—Class 870, Code No. 4
POWER REQUIREMENTS AND CONSUMPTION

Battery, secy. port, 12V.
Consumption: Listening watch, 3.0A.
Receive, 3.7A.
Send R/T, 4.6A
Send C.W., 5.0A.

VALVES

<table>
<thead>
<tr>
<th>Circuit ref.</th>
<th>Type</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1A</td>
<td>ARP 12</td>
<td>R.F. amplifier, sidetone rectifier</td>
</tr>
<tr>
<td>V1B</td>
<td>ARP 12</td>
<td>Mixer</td>
</tr>
<tr>
<td>V1C</td>
<td>ARP 12</td>
<td>Local oscillator</td>
</tr>
<tr>
<td>V1D</td>
<td>ARP 12</td>
<td>1st. I.F.</td>
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<tr>
<td>V1E</td>
<td>ARP 12</td>
<td>2nd. I.F.</td>
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<tr>
<td>V2A</td>
<td>AR 8</td>
<td>Det. A.V.C., 1st. microphone amplifier</td>
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<tr>
<td>V3A</td>
<td>CV 65</td>
<td>Receiver output sidetone</td>
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<tr>
<td>V3B</td>
<td>CV 65</td>
<td>2nd. microphone amplifier</td>
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<tr>
<td>V4A</td>
<td>ARTH 2</td>
<td>Sender mixer, beat oscillator</td>
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<tr>
<td>V5A</td>
<td>ARP 35</td>
<td>Buffer</td>
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<tr>
<td>V6A</td>
<td>VT 510</td>
<td>Power amplifier</td>
</tr>
</tbody>
</table>

REMARKS

Set is immersion-proof for 5 minutes: will float.

SPECIAL FACILITIES

Remote aerial up to 50 ft., using Aerial coupling unit J. Remote control by units L up to ½ mile, using D.3, and ½ mile, using assault cable. Junctions, remote control, No. 1 and No. 2 can be used in lieu of Remote control units L. Station includes crystal calibrator.