SIGNAL COMMUNICATION
EQUIPMENT DIRECTORY

RADIO COMMUNICATION EQUIPMENT

United States Government Printing Office
Washington : 1944
WAR DEPARTMENT,
WASHINGTON 25, D. C., --- --------- ----

TM 11-227, Signal Communication Equipment Directory—Radio Communication Equipment, is published for the information and guidance of all concerned.

[A. G. 300.7 (10 Mar. 44).]

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
Major General,
The Adjutant General.

 DISTRIBUTION:

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SIGNAL COMMUNICATION EQUIPMENT DIRECTORY - RADIO COMMUNICATION EQUIPMENT.

THE PURPOSE OF THIS MANUAL IS TO PRESENT, IN A SINGLE VOLUME, A CONDENSATION AND COMPILATION OF DATA PERTAINING TO SIGNAL CORPS RADIO COMMUNICATION EQUIPMENT. IT IS ISSUED IN LOOSE-LEAF FORM, SO THAT ADDITIONAL SHEETS OR REVISIONS OF OLD SHEETS CAN BE ADDED.


THIS MANUAL SUPERSEDES THE SECRET INFORMATION LETTER; OTHER SPECIAL COMMUNICATION EQUIPMENT DIRECTORIES, AND THE SIGNAL COMMUNICATION EQUIPMENT DIRECTORY, APRIL 1943 ISSUE, FORMERLY PUBLISHED BY THE CHIEF SIGNAL OFFICER.

(ALL INFORMATION CONTAINED HEREIN IS BASED ON LATEST DATA AVAILABLE 1 MARCH 1944)
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<td>SCR-287</td>
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<td>SCR-288</td>
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</table>
AN/ARA-1

**PART A - TECHNICAL CHARACTERISTICS**

(Classification: Restricted)

**FREQUENCY RANGE:**

(MHz) 0.190 - 1.5

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:** None

**ANTENNA:** Fixed or rotatable loop and sense antenna.

**TUNING:** (MO or XTAL) Single Control.

**SENSITIVITY:** Selectivity:

**POWER SOURCE:** 28 Volts D.C.

**SIMILAR SETS:** 80R-156

**POWER OUTPUT:** (Watts) None

**TUBES:** (Type and Number) 1-12SK7 1-125A7 2-12AM7T.

**PART B - TACTICAL CHARACTERISTICS**

(Classification: Restricted)

**USE:** Used with 80-653-6 and/or 80-946 to give aural or visual, left-right radio compass operation.

**RANGE:** Maximum 300 miles, depending upon transmitter.

**TO COMMUNICATE WITH:**

**TO REPLACE IN PART:** Any aircraft left-right compass.

**TRANSPORTATION:** Airborne.

**TYPE OF SIGNALS:** CW - NCR - VOICE.

**PART C - PRINCIPAL COMPONENTS**

(Classification: Restricted)

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<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
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<tr>
<td>Compass Modulator</td>
<td>7.00</td>
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<tr>
<td>Indicator 1-75-A</td>
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<td>1.750</td>
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<tr>
<td>Indicator 1-65-A</td>
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<tr>
<td>Control Box</td>
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</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

1.82 (APPROXIMATE)

**COMBINED VOLUME OF COMPONENTS:**

400 Cub. In.

**SHIP TONNAGE:**

—

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**Note:** See individual sections for section classification.

**Nomencature Designation:**

This sheet is classified: RESTRICTED

(Aircraft Radios, Radio Navigation.)
AN/ARN-5 NOMENCLATURE DESIGNATION

PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: (MO) 335
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: One
ANTENNA: AS-27/ARN-5
TUNING: (MO OR XTAL)
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 24 V. AIRCRAFT BATTERY
SIMILAR SETS: None
POWER OUTPUTS: (Watts) None
TUBES (TYPE AND NUMBER) (TENTATIVE)
- Bendix Model 1-12AX7/T1; 1-22D7; 1-6S6T
- Crosley Model 1-12AX7/T1; 1-22D7; 1-6S6T
- Emerson Model 1-6SL7/T1; 1-12AX7/T1; 1-22D7; 1-955

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: AIRBORNE GLIDE PATH RECEIVER FOR GIVING PILOT VERTICAL GUIDANCE FOR INSTRUMENT APPROACH OR LANDING
RANGE:
TO COMMUNICATE WITH: AN/ARN-2
TO REPLACE IN PART: AN/ARN-5 IS A PART OF A SYSTEM WHICH REPLACES SCR-261.
TRANSPORTATION: AIRBORNE
TYPE OF SIGNALS: MCD, VOICE

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
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</thead>
<tbody>
<tr>
<td>Radio Receiver, R-15/ARN-5; R-47/ARN-5 or R-57/ARN-5</td>
<td>6-1/2&quot; x 6&quot; x 8&quot;</td>
<td>8#</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 10# APPROX.
COMBINED VOLUME OF COMPONENTS:
SHIP TONNAGE:

THIS SHEET IS CLASSIFIED: RESTRICTED
**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

- **FREQUENCY RANGE:** (MHz) 100 to 1,750
- **NUMBER OF CRYSTALS:** (Not specified)
- **PRESET FREQUENCIES:** (Not specified)
- **ANTENNA:** Loop, fixed or rotatable, with remote indication of loop position. (Dual remote control and one set of local controls.)
- **TUNING:** (MO or XTAL)
- **SENSITIVITY:** 50 microvolts/meter. Selectivity ----
- **POWER SOURCE:** 26 Volts DC
- **SIMILAR SETS:** SCR-269 (AN/ARN-6 is to be smaller than Radio Set SCR-269)
- **POWER OUTPUT (Watts):** None
- **TUBES (TYPE AND NUMBER):** None
  - **TUBE DATA NOT AVAILABLE AT PRESENT.**

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

- **USE:** Automatic Radio Compass similar to SCR-269 primarily used for navigation, installed in airframes.
- **RANGE (MILES):** (Not specified)
- **TO COMMUNICATE WITH:** (Not specified)
- **TO REPLACE IN PARTS SCR-269:** (Notes: Radio set AN/ARN-6 is to be lighter in weight than Radio Set SCR-269 and will also be simpler to operate.)
- **TRANSPORTATION:** Airborne installation
- **TYPE OF SIGNAL:** CW - MOR and Voice.

**PART C - PRINCIPAL COMPONENTS**

**CLASSIFICATION: RESTRICTED**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
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<tbody>
<tr>
<td>1 Radio Compass Unit</td>
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<td></td>
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<tr>
<td>2 Radio Control Box</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Loop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Indicators</td>
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</tr>
</tbody>
</table>

*(No further data on components available at present.)*

**COMBINED WEIGHT OF COMPONENTS (ESTIMATED):** 50 lbs
**COMBINED VOLUME OF COMPONENTS:** 1500 cubic inches
**SHIP Tonnage:** Maximum

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This sheet is classified: **RESTRICTED**
**AN/CRN-1**

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

- **FREQUENCY RANGE:** (Me) 1.45 - 1.70 MHz
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCY:** None
- **ANTENNA:** Telescoping whip
- **TUNING:** (No or XTAL) No
- **SENSITIVITY:** Selectivity
- **POWER SOURCE:** Batteries
- **SIMILAR SETS:** None
- **POWER OUTPUT:** (Watts) Less than one
- **TUBES:** (Type and Number) 2 - 6Y6GT

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

- **USE:** When dropped into the sea from an aircraft, automatically transmits a signal for recovery by means of Radio Compass SCR-269. Works 12 hours and 30 minutes.
- **RANGE:** 50 miles over sea water.
- **TO COMMUNICATE WITH:** SCR-269
- **TO REPLACE IN PART:**
- **TRANSPORTATION:** Air
- **TYPE OF SIGNAL:** C.W.

**PART C - PRINCIPAL COMPONENTS**

**CLASSIFICATION: RESTRICTED**

<table>
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<th>ITEM</th>
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<tr>
<td>RADIO TRANSMITTER T-2/CRN-1</td>
<td>L: 4 1/2 in, D: 5/8 in. DIA.</td>
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<td>Restricted</td>
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<tr>
<td>BATTERY BA-201/CRN-1</td>
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</table>

*Height of Transmitter not extended.*

**COMBINED WEIGHT OF COMPONENTS:** 350 lbs

**COMBINED VOLUME OF COMPONENTS:** 1.5 cu.ft.
AN/CRN-2

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION:** RESTRICTED

- **FREQUENCY**: 330 to 360 MHz
- **NUMBER OF CRYSTALS**: 1
- **PRESET FREQUENCIES**: 335 MHz
- **ANTENNA**: Folded dipoles
- **TUNING**: MD or XTAL XTAL
- **SENSITIVITY**: SELECTIVITY
- **POWER SOURCE**: PE-121 Motor Generator (115 V 60 CYCLES)
- **SIMILAR SETS**:
- **POWER OUTPUT**: (Watts) 25 WATTS OF OR POWER.
- **TUBES** (Type and Number):
  - 6L6 1-620
  - 6L8 1-928
  - 6L9 1-696
  - 6P6 1-629
  - 6S670 1-V990
  - 1-5002 1-V150

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION:** RESTRICTED

- **USE**: IS A GLIDE PATH TRANSMITTER WHICH GIVES THE GROUND AERIAL INDICATION OF APPROACH TO THE AIRPORT. THIS IS INDICATED ON A HOVERING DISPLAY CONTAINED IN THE AN/ARM-4, INSTRUMENT LANDING RECEIVING EQUIPMENT.
- **RANGE**: (MILES) 15 MILES AT 3000 FT.
- **TO COMMUNICATE WITH**: AN/ARN-5
- **TO REPLACE IN PART**:
- **TRANSPORTATION**: INSTALLED IN AIR-TRANSPORTABLE TRAILER.
- **TYPE OF SIGNAL**: STRAIGHT LINE GLIDE PATH - DOUBLE ROLLING HORIZONTAL WAVE SYSTEM.

**PART C - PRINCIPAL COMPONENTS**

**CLASSIFICATION:** RESTRICTED

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**NOT YET DEFINITELY DETERMINED**

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME:**

**SHIP TONNAGE:**

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**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

**STATUS:** STANSPER 5 FEB 44

**INSTRUCTIONAL LITERATURE:**

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This sheet is classified: RESTRICTED
AN/CRN-3

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED


NUMBER OF CRYSTALS: 3 or 6


ANTENNA: 5 Aardvark loops on same horizontal plane.

TUNING (MO or XTL) XTAL
SENSITIVITY: SELECTIVITY

POWER SOURCE: POWER UNIT PE-1141 OR 110V, 60 CYCLES.

SIMILAR SETS: AN/MIN-1

POWER OUTPUT (Watts) 25

TUBES: (TYPE AND NUMBER) 1 BC-755 TRANS.
2 HM-254 1 M-646 1 M-646(7) 1 M-646(7) 1 M-646(7) 1 M-646(7) 1 M-646(7) 1 M-646(7) 1 M-646(7)

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

USE: Ground Locating Transmitter to provide azimuth guidance of aircraft for blind approach or instrument landing. This set is same components as AN/MMIN-1 packed for air transport instead of installed in truck K-55.

RANGE: 75 MILES

TO COMMUNICATE WITH: AN/TOC

TO REPLACE IN PART: Army A-3 Instrument Landing System

TRANSPORTATION: AIR

TYPE OF SIGNAL: CB, DCS, VOICE.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM

RADIO TRANSMITTER EQUIPMENT RC-107

LOCALIZER TRANSMITTER EQUIPMENT CONSISTS OF:

CONTROL BOX BO-975

RADIO TRANSMITTER BOX BO-975

MODULATOR & BRIDGE BO-752

COURSE DETECTOR BO-752 (FIXED)

COURSE DETECTOR BO-752 (PORTABLE)

FIELD INTENSITY METER BO-775

INDICATOR BOX BO-777 (Alarm)

ANTENNA EQUIPMENT BO-109

ANTENNA SET SCR-610

HEATER M-521

MOUNTING PARTS & TOOLS

SURVEYING INSTRUMENT

CABLE UNIT CC-6

VOLTOMETER 15-175 (balanced)

VOLTOMETER 10-175 (unbalanced)

COMBINED WEIGHT OF COMPONENTS:

30.95 LBS

COMBINED VOLUME OF COMPONENTS:

80.25 CF

SHIP Tonnage:

This sheet is classified: RESTRICTED

Page 7
AN/CRN-5

PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: (Mo) 100 - 156 TUNES OVER 3 MC BAND.
NUMBER OF CRYSTALS: UNDER DEVELOPMENT.
PRESET FREQUENCIES: NOT YET DETERMINED.
ANTENNA: VERTICALLY POLARIZED.
TUNING: (MO OR XTAL) XTAL
SENSITIVITY: SELECTIVITY:
PW SOURCE: 115 VOLT 60 CYCLE D.C. INPUT.
GENERATOR CAPACITY: 2 KVA-AC AND 6 VOLT 20 AMP. DC
SIMILAR SETS: AN/CRN-5
POWER OUTPUT: (Watts) GAIN OF 80 B.W. 25 WATTS
(ARL-117-1) RADIO TRANS. 100 WATT CARRIER & 30 WATT SIDE BAND ARRL-117.
TUBES: (TYPE AND NUMBER) 1-6AC7 1-6SN7GT 2-529
1-6F8P 2-6MB6T 2-512
1-5696 1-6L2G7 1-636
1-545 1-18S 1-VR150
1-6SK7 1-697

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: PORTABLE U.H.F. RADIO TWO COURSE AURAL
RADIO RANGE WITH STATION IDENTIFICATION, PERIODIC QUADRANT IDENTIFICATION, AND SIMULTANEOUS PHONE TRANSMISSION.

RA: (MILES) 60

TO COMMUNICATE WITH: SCR-522

TO REPLACE IN PARTS SCR-277

TRANSPORTATION: AIR

TYPE OF SIGNAL: CW, MORSE, AND VOICE.

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

ITEM

DIMENSIONS

HEIGHT

WIDTH

DEPTH

WEIGHT

CLASSIFICATION

(Not yet definitely determined)

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME OF COMPONENTS:

SHIP TONNAGE:
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 0.2 - 0.4G
NUMBER OF CRYSTALS: Per special order
PRESET FREQUENCIES: None
ANTENNA: Special - 200 Meters, 7 ohms or less
TUNING: MO or XTAL XTAL
SENSITIVITY: SELECTIVITY: POWER SOURCE: Power Unit PE-75 or 110 Volts 50 - 60 Cycles, 550 Volt-Amperes
SIMILAR SETS: None
POWER OUTPUT: (WATTS) 50
TUBES: (TYPE AND NUMBER) 5 VT-146 (523) 6 VT-166 (604) 6 VT-100 (507)

PART B - TACTICAL CHARACTERISTICS

USE: A ground radio beacon to which aircraft can homing or take bearings.

RANGE: 100 MILES OVER LAND OR 500 MILES OVER SEA WATER.
TO COMMUNICATE WITH: SCR-269
TO REPLACE IN PART: None
TRANSPORTATION:
TYPE OF SIGNAL: CW, MCW, VOICE.

PART C - PRINCIPAL COMPONENTS

ITEM

<table>
<thead>
<tr>
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<tr>
<td>Radio Transmitter BC-901</td>
<td>25&quot;</td>
<td>26&quot;</td>
<td>16&quot;</td>
<td>205 #</td>
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<tr>
<td>Power Unit PE-75</td>
<td>36&quot;</td>
<td>19&quot;</td>
<td>27&quot;</td>
<td>330 #</td>
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</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: About 800 LBS. COMPLETE
COMBINED VOLUME OF COMPONENTS:
SHIP TONNAGE:
AN/MRN-2

PART A - TECHNICAL CHARACTERISTICS
(Classification: REstricted)

FREQUENCY RANGE: (MD) 100 - 156 TUNES OVER 5 MHz BAND.

NUMBER OF CRYSTALS: UNDER DEVELOPMENT.

PRESET FREQUENCIES: NOT YET DETERMINED.

ANTENNA: VERTICALLY POLARIZED

TUNING: (MD or XTL) XTAL

SENSITIVITY:

SELECTIVITY:

POWER SOURCE: 115 VOLT 60 CYCLE SINGLE PHASE, GENERATOR CAPACITY 2 KW-AC AND 6 VOLT 20 AMP DC.

SIMILAR SETS: AN/GRM-5

POWER OUTPUT: (Watts) COME OF SILENCE 25 WATTS
(ARR-117-1) RADIO TRANSMITTER, 100 WATTS CARRIER & 50 WATTS SIDE BAND ARL-119.

TUBES (Type and Number):
1-6AC7 4-6SN7OT 2-629
1-606 2-6G6VT 2-636
1-616 3-6X5GT 6-636
1-6H5 1-135 1-VR150
2-6827 1-937 1-6SK7 4-607

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: PORTABLE U.H.F. RADIO TWO COURSE AURAL
RADIO RANGE WITH STATION IDENTIFICATION,
PERIODIC QUADRANT IDENTIFICATION, AND
SIMULTANEOUS PHONE TRANSMISSION.

RANGE: (Miles) 50

TO COMMUNICATE WITH: SCR-522

TO REPLACE IN: SCR-277

TRANSPORTATION: Truck

TYPE OF SIGNAL: SW, MOB, AND VOICE.

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
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</table>

(NOT YET DEFINITELY DETERMINED)

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME OF COMPONENTS:

SHIP TONNAGE:
### AN/MRN-3

**Nomenclature Designation:**
- **PART A - TECHNICAL CHARACTERISTICS**
  - **Frequency Range:** (kHz) 75
  - **Number of Crystals:** None
  - **Present Frequencies:** One
  - **Antenna:** One Horizontal Dipole
  - **Tuning:** (MO or XTL) MO
  - **Sensitivity:** Selectivity
  - **Power Source:** 110 V, 50 - 60 cycles A.C. Power Unit PE-60E or Power Unit PE-614.
  - **Similar Sets:**
    - POWER OUTPUTS (BATT): One
    - TUBES: (TYPE AND NUMBER) RO-115 X3; 1-VT-76 (524); 2-VT-199; V9-190-30; 1-VT-188 (765); 2-VT-135; 7-VT-75; SCR-610; 1-RC-145P; 1-RC-189L; 4-1229P; 1-1290; 1-1292; 1-1298; 1-PE-117 4KX; 1 V9-50-30; 1 QK105.

**PART B - TACTICAL CHARACTERISTICS**
- **Use:** Transmits vertical pattern to be received by RO-39, RO-43, RO-135, naming reference points in instrument landing system.
- **Range:** 10,000 feet, overhead.
- **To Replace In Part:** BO-302.
- **Transportation:** Jeep.
- **Type of Signal:** CW, MOW.

**PART C - PRINCIPAL COMPONENTS**
- **Marker Beacon Transmitting Equipment RO-115**
- **Power Unit PE-68 or Power Unit PE-242**
- **Radio Set SCR-610**
- **1/4-Ton L x 4-ton Truck (“Jeep“)**

**Dimensions:**
<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>Marker Beacon Transmitting Equipment RO-115</td>
<td>16&quot;</td>
<td>12&quot;</td>
<td>20&quot;</td>
<td>370</td>
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<tr>
<td>Power Unit PE-68 or Power Unit PE-242</td>
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<td></td>
<td></td>
<td>450</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Radio Set SCR-610</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>1/4-Ton L x 4-ton Truck (“Jeep“)</td>
<td>72&quot;</td>
<td>63&quot;</td>
<td>132&quot;</td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 2500 lbs plus Jeep.

**Combined Volume of Components:**

**Shipment Tonnage:**
RADIO SET AN/TRA-1 IS A 250-WATT RF AMPLIFIER EQUIPMENT FOR USE IN CONNECTION WITH THE RADIO TERMINAL SET AN/TRC-1, A RADIO RELAY SET AN/TRC-2, AND RADIO SET AN/TRC-3 TO INCREASE THE STRENGTH OF THE TRANSMITTED SIGNAL AND THE NORMAL OPERATION RANGE OF UNITS WITHIN THE RELAY SYSTEM. USED WITH BUT NOT PART OF: RADIO TERMINAL SETS AN/TRC-3, RADIO RELAY SET AN/TRC-2, AND RADIO SET AN/TRC-1.

### PART A - TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Frequency Range (MHz)</th>
<th>70 - 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Crystals</td>
<td>None (Amplifier Unit)</td>
</tr>
<tr>
<td>Preset Frequencies</td>
<td>None</td>
</tr>
<tr>
<td>Antenna</td>
<td>3 Element Parasitic Beam</td>
</tr>
<tr>
<td>Tuning (MD or XTAL)</td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Selectivity</td>
</tr>
<tr>
<td>Power Source</td>
<td>Power Supply PP-13/TRA-1</td>
</tr>
<tr>
<td>Similar Sets</td>
<td>None</td>
</tr>
<tr>
<td>Power Output (Watts)</td>
<td>250</td>
</tr>
<tr>
<td>Tubes (Type and Number)</td>
<td>2 HK-257-B</td>
</tr>
</tbody>
</table>

### PART B - TACTICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Use:</th>
<th>Army Ground Forces; Army Service Forces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range:</td>
<td>Minimum 25 miles, maximum according to terrain</td>
</tr>
<tr>
<td>To Communicate With:</td>
<td>AN/TRC-1, AN/TRC-3, AN/TRC-4</td>
</tr>
<tr>
<td>To Replace In Part:</td>
<td>None</td>
</tr>
<tr>
<td>Transportation:</td>
<td>Vehicular</td>
</tr>
<tr>
<td>Type of Signal:</td>
<td>FM</td>
</tr>
</tbody>
</table>

### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier AN-5/TRA-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply PP-13/TRA-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spare Parts Kit MK-11/TRA-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For Antenna Equipment See Radio Sets AN/TRC-1, AN/TRC-3 and AN/TRC-4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AN/TRC-1
NOMENCLATURE DESIGNATION

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE (MHz) 70 - 100
NUMBER OF CRYSTALS: BANK OF 16 PER SET
PRESET FREQUENCIES: ONE
ANTENNA: 3 ELEMENT Horizontal or 1/0 FT. MAST.
TUNING (MODE OR XTAL) XTAL
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 115/230 V, A.C., 50/60 CYCLES, SINGLE PHASE
SIMILAR SETS: AN/TRC-3 AN/TRC-4
POWER OUTPUTS (WATTS) 50 on Voice
TUBES: (TYPE AND NUMBER) TYPE T-11/TRC-1
Trans: 660 6AT
Recvr: 660 6AT
Power Unit PE-75
ANTENNA AS-19/TRC-1

PART B - TACTICAL CHARACTERISTICS

USE: Air Force, Signal Corps
RANGE (MILES) 25
TO COMMUNICATE WITH: AN/TRC-1
TO REPLACE IN PARTS F.M. Link Co., Commercial Model 1096,
TRANSPORTATION: Vehicle
TYPE OF SIGNAL: F.M.

PART C - PRINCIPAL COMPONENTS

ITEM
TRANS. T-11/TRC-1
RECV. R-19/TRC-1
POWER UNIT PE-75
ANTENNA AS-19/TRC-1

DIMENSIONS
HEIGHT
WIDTH
DEPTH

WEIGHT
Classification

600
RESTRICTED

420
RESTRICTED

UNRESTRICTED

COMBINED WEIGHT OF COMPONENTS

COMBINED VOLUME OF COMPONENTS

SHIP TONNAGE:

RADIO RECEIVER R-19/TRC-1, AND RADIO TRANSMITTER T-11/TRC-1
PART OF RADIO SET AN/TRC-1

TRANSMITTER AND RECEIVER ARE EACH HOUSED IN SEPARATE CARRYING CASES.
TRANSMITTER CASE MEASURES 32 LBS. RECEIVER CASE MEASURES 40 LBS. INCLUD-ING GALLEY, SPARE TUBES, TOOLS, ETC.

Page 14
BASIC COMPONENTS OF RADIO SET AN/TRC-2, SET UP FOR FIELD OPERATION, SHOWING GENERATOR AND STEEL TAPE ANTENNA. TWO IDENTICAL TRANSMITTER-RECEIVER UNITS OF THE TYPE PICTURED ARE USED WITH RADIO SET AN/TRC-2 DIFFERING IN FREQUENCY COVERAGE ONLY. THIS EQUIPMENT IS DESIGNED FOR RESISTANCE TO TROPICAL CONDITIONS; HIGH HUMIDITY AND EXTREME HIGH AND LOW TEMPERATURE.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>POWER SOURCES</th>
<th>SENSITIVITY</th>
<th>SELECTIVITY</th>
<th>TUNINGS (LOD OR XTAL)</th>
<th>AMPLIFIERS</th>
<th>NUMBER OF CRYSTALS</th>
<th>RMS POWER</th>
<th>VOLUME OF COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Generator</td>
<td>DC B-H-10</td>
<td>50 - 150</td>
<td>100 - 200</td>
<td>100 - 200</td>
<td>10 - 20</td>
<td>10 - 20</td>
<td>10 - 20</td>
<td>10 - 20</td>
</tr>
<tr>
<td>2</td>
<td>Antenna</td>
<td>TYPE 2</td>
<td>50 - 150</td>
<td>100 - 200</td>
<td>100 - 200</td>
<td>10 - 20</td>
<td>10 - 20</td>
<td>10 - 20</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

PART A - TACTICAL CHARACTERISTICS
- AN/TRA-2
- AN/TRA-2B
- AN/TRA-2C
- AN/TRA-2D
- AN/TRA-2E

PART B - TECHNICAL CHARACTERISTICS
- CRYSTAL-RESTRICTED
- TRANSMITTER-RESTRICTED
- RECEIVER-RESTRICTED

AN/TRA-2
GROUND SIGNAL EQUIPMENT, GROUND RADAR OCT. 1964

DECLASSIFIED

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REPLACED WITH AN/TRA-3

REPLACED IN PART A.

WEIGHT: 100 LBS. (45.4 KG)
### AN/TRC-3

**NOMENCLATURE DESIGNATION**

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION

**STATUS:**

**CLASSIFICATION:** RESTRICTED

---

### PART A - TECHNICAL CHARACTERISTICS

**CLASSIFICATION:** RESTRICTED

**FREQUENCY RANGES:**
- Mono: 75-130 MHz
- Stereo: 300 channels

**NUMBER OF CRYSTALS:** 96 (Bank of 900 or 300 channels of 300 channels)

**PRESET FREQUENCIES:** 50.

**ANTENNA:** 3 element horizontal array.

**TUNING:** (MD or XTAL) XTAL (receiver and transmitter)

**SENSITIVITY:**

**SELECTIVITY:**

**POWER SOURCE:** 115 volt AC, 50 cycle, single phase.

**SIMILAR SETS:** AN/TRC-1, AN/TRC-4.

---

### PART B - TACTICAL CHARACTERISTICS

**CLASSIFICATION:** RESTRICTED

**USE:** Army Ground Forces, Army Service Forces.

**RANGE:** 25-53 miles, or more according to terrain and use of amplifier equipment AN/TRM-1.

**TO COMMUNICATE WITH:** AN/TRC-1, AN/TRC-4, and F.M. Line Model 1496, 1505.

**TO REPLACE IN PARTS:** NONE

**TRANSPORTATION:** Vehicular

**TYPE OF SIGNAL:** A-5 (FM)

---

### PART C - PRINCIPAL COMPONENTS

**CLASSIFICATION:** RESTRICTED

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Transmitter T-14/TRC-1</td>
<td></td>
<td></td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Receiver R-19/TRC-1</td>
<td></td>
<td></td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Antenna System AS-19/TRC-1</td>
<td></td>
<td></td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Power Unit PE-75</td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>1 Maintenance Equipment MK-5/TRC-3</td>
<td></td>
<td></td>
<td>RESTRICTED</td>
</tr>
</tbody>
</table>

---

**RADIO SET AN/TRC-3 IS A 50 WATT, FM, RADIO RECEIVING AND TRANSMITTING TERMINAL STATION OF A RADIO RELAY MULTI-BAND MULTICHANNEL COMMUNICATION SYSTEM WITH OR WITHOUT CARRIER EQUIPMENT TO-21 AND TO-22 (NOT A PART OF AN/TRC-3) TWO RADIO TERMINAL SETS, AN/TRC-3 CONSTITUTE THE MINIMUM REQUIREMENTS FOR A MULTICHANNEL COMMUNICATION SYSTEM. WHERE DISTANCE BETWEEN THE TWO IS TOO SMALL FOR SINGLE JUMP OPERATION, RADIO RELAY SETS AN/TRC-4 ARE PLACED AT INTERMEDIATE POINTS, AS REQUIRED. RADIO SETS AN/TRC-3 AND AN/TRC-4 ARE SUPPLIED WITH SUFFICIENT STANDBY EQUIPMENT TO ASSURE 24-HOUR CONTINUOUS OPERATION.
### AN/TRC-4

#### Part A - Technical Characteristics

- **Frequency Range:** (50) 70-100 (300 Channels)
- **Number of Crystals:** 96 with 12 "Basic" frequencies, for additional crystals, see Table
- **preset frequencies:** One
- **Antenna:** 3 element horizontal array
- **Tuning:** (40 or XTAL) (Receiver & Transmitter)
- **Sensitivity:** Selectivity
- **Power Source:** 115 volt 60 cycle, single phase
- **Similar Sets:** AN/TRA-1, AN/TRC-3
- **Power Output:** (Watts) 50
- **Tubes:** (Type and number) 5A66T, 5A64T, 10-6Y6ST, 56B16T, 56B17T, 56B18T, 56B19T

#### Part B - Tactical Characteristics

- **Range:** 25-35 miles (or more according to terrain and use of AMP AN/TRA-1)
- **To Communicate With:** AN/TRC-1, AN/TRC-3 (and F.M. Link Type T690 or T505)
- **To Replace in Parts:** None
- **Transportation:** Vehicular
- **Type of Signal:** A-3 (FM)

#### Part C - Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Transmitter T-11/TRA-1</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>5 Receiver R-19/TRC-1</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Antenna System AS-19/TRC-1</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>3 Power Unit PE-75</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Maintenance equipment MS-6/TRC-4</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**
<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver DD-341</td>
<td>5 3/8&quot; x 5 3/8&quot; x 3 7/16&quot;</td>
<td>2.65 #</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

Combined weight of components: 4.50 #
Combined volume of components: 1 cu. ft.

Radio Receiver RC-39

<table>
<thead>
<tr>
<th>PART A - TECHNICAL CHARACTERISTICS</th>
<th>PART B - TACTICAL CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREQUENCY RANGE: 62 to 60</td>
<td>USE: To receive 75 Mc. Marker Beacon Signals.</td>
</tr>
<tr>
<td>NUMBER OF CRYSTALS: None</td>
<td></td>
</tr>
<tr>
<td>PRESET FREQUENCIES: 75 Mc.</td>
<td></td>
</tr>
<tr>
<td>ANTENNA: 1/2 wave antenna</td>
<td></td>
</tr>
<tr>
<td>TUNING: No or XTAL</td>
<td>RANGE:</td>
</tr>
<tr>
<td>SENSITIVITY: About 2000 microvolts/meter</td>
<td></td>
</tr>
<tr>
<td>SELECTIVITY:</td>
<td></td>
</tr>
<tr>
<td>POWER SOURCE: 12 volts from aircraft battery and high voltage from radio compre.</td>
<td></td>
</tr>
</tbody>
</table>

Similar sets: RC-43
Power outputs (watts): 
Tubes (type and number) 
(1) VT-15
(1) VT-104

Type of signal: W. C. W.

To communicate with: RC-115, AN/ARN-3
To replace in part: RC-20
Transportation: Airborne

Part C - Principal Components

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This sheet is classified: UNCLASSIFIED
### PART A - TECHNICAL CHARACTERISTICS

**Frequency Range**: (Mo) 62 to 68

**Number of Crystals**: None

**Preset Frequencies**: 75 Mo.

**Antenna**: 1/2 wave antenna

**Tuning**: (Mo or XTAL)

**Sensitivity**: About 2000 microvolts/meter

**Selectivity**: Power Source: 12 volts from aircraft battery and high voltage from radio compass.

**Similar Sets**: RO-59

**Power Output**: (Watts) None

**Tubes (Type and Number)**:
- (1) VT - 104
- (1) VT - 153

### PART B - TACTICAL CHARACTERISTICS

**Use**: To receive 75 Mo. Marker Beacon Signals.

**Range**: To communicate with: RC-115, AN/ARN-3

**To Replace in** Part: RO-20

**Transportation**: Airborne

**Type of Signal**: M.C.W.

### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver 80-357</td>
<td>5 3/8 * 5 3/8 * 3 7/16 *</td>
<td>2.65 #</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**Combined Weight of Components**: 4.50 #

**Combined Volume of Components**:

**Ship Tonnage**:

---

This sheet is classified: UNCLASSIFIED
# RC-103

## PART A - TECHNICAL CHARACTERISTICS

- **Frequency Range:** 108.3-110.3 MHz
- **Number of Crystals:** 3-6
- **Preset Frequencies:** 3-6
- **Antenna:** AN-100 or AG-37/ANR-5
- **Tuning:** (MO or XTAL) XTAL
- **Sensitivity:** 20μV/meter
- **Selectivity:** 6db down at 150 Hz bandwidth
- **Power Source:** 12 or 24 V, Aircraft Battery
- **Similar Sets:** None
- **Power Outputs (Watts):**
  - 3 VT-104 (12W47)
  - 2 VT-113 (12S67)
  - 1 VT-156 (12A66)
  - 1 VT-207 (12A97-0T)
  - 2 VT-209 (12S27)
  - 3 VT-269 (NEC-771A)

## PART B - TACTICAL CHARACTERISTICS

- **Use:** Airborne Localizer Receiver for Azimuth Guidance of Pilot in Instrument Approach or Landing.
- **Range:** Line of Sight
- **To Communicate With:** AN/MRN-1, AN/CRN-5, AN/CRN-7
- **To Replace in Part:** None
- **Transportation:** Airborne
- **Type of Signal:** CW, CW, Simultaneous Voice

## PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver BC-733</td>
<td>7 3/32&quot; x 5&quot; x 13 3/8&quot;</td>
<td>21.1 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>Control Box BC-732</td>
<td>2 5/8&quot; x 3 9/32&quot; x 3&quot;</td>
<td>.56 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>Dynamotor DM-55 (12V.)</td>
<td>3 1/8&quot; x 2 3/4&quot; x 5&quot;</td>
<td>3 lb</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Principal Components of Radio Receiving Equipment**

**BC-103 or BC-103-2**

**Aircraft Radio Laboratory, Wright Field, Ohio**

**Official Photograph - Not for Publication**

**Page 20**

This Sheet is Classified: Restricted
RC-115

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (No) None
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: 75 MC.
ANTENNAS: One Dipole
TUNING: (No or XTAL) No
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 115 V 50-60 CYCLES 110 WATTS
SIMILAR SETS: None
POWER OUTPUT (WATTS): One
TUBES: (Type and Number)
1 VT-76 (5DL)
2 VT-139 (VR-150-30)
1 VT-160 (766)
2 VT-189 (797)
5 7N7
5 7C5

PART B - TACTICAL CHARACTERISTICS

USES: Marker Beacon Transmitter to Indicate Spot on Ground to Aircraft. Used in Blind Approach or Instrument Landing.

RANGE: 10,000 FEET STRAIGHT UP.


TO REPLACE IN PART: BC-302

TRANSPORTATION: Plane or any Vehicle.

TYPE OF SIGNALS: CW, MOR-400, 1500, 3000 CYCLES KEYED 6 DOTS PER SECOND OR 2 DASHES PER SECOND.

PART C - PRINCIPAL COMPONENTS

ITEM
RADIO TRANSMITTER BC-402

DIMENSIONS
HEIGHT 22" 21"
WIDTH 18" 17
DEPTH 18" 17
WEIGHT 51# RESTRICTED

COMBINED WEIGHT OF COMPONENTS: 51#
COMBINED VOLUME OF COMPONENTS: 7.5 CUB. FT.

SHIP TONNAGE:
RC-193, 193-Z

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 75 MHz
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** 75 MHz
- **ANTENNAs:** 1/2 WAVE
- **TUNING:** (MO or XTAL) None
- **SENSITIVITY:** About 2000 microvolts/meter
- **SELECTIVITY:**
  - **POWER SOURCE:** Low and high voltage supplied by airplane 25 V. Battery. See note.
  - **SIMILAR SETS:** RC-39, RC-43
  - **POWER OUTPUT (Watts):**
    - (1) 6SN7
    - (1) 6SL7-2T (VT-229)
    - (1) 12BU7-3T
- **TUBES (TYPE AND NUMBER):**

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** To receive 75 MHz marker beacon signals.
- **RANGE:** Does not apply.
- **TO COMMUNICATE WITH:** RC-115, AN/MRN-5
- **TO REPLACE IN PARTS:** RC-39, RC-43
- **TRANSPORTATION:** Airborne
- **TYPE OF SIGNAL:** M.C.W.

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver BC-1023 &amp; 1033</td>
<td>5 3/8&quot; x 5 3/8&quot; x 3 7/16&quot;</td>
<td>2.67#</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>Combined weight of components:</td>
<td>3.17#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combined volume of components:</td>
<td>5.02 cu.ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ship tonnage:</td>
<td>4.5 lbs. (approx.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RADIO RECEIVER BC-1033, FRONT VIEW, PART OF RC-193 AND RC-193-Z.

This receiver differs from RC-39 and RC-43 in that it does not require any high voltage supply.

- Note regarding power source: RC-193 and RC-193-Z are identical except that RC-193-Z works from 12 V. Battery.
**SCR-131**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** Transmitter 3.96 to 4.36 MHz
- **Number of Crystals:** None
- **Preset Frequencies:** None
- **Antenna:** Loop LP-7
- **Tuning:** MO or Crystal
- **Sensitivity:**
- **Selectivity:**
- **Power Source:** Transmitter: Hand Generator 10 kVA, Receiver: Dry Battery 4 4/5 V.
- **Similar Sets:** SCR-161 (Different Frequency)
- **Power Output:** 5 Watts
- **Tubes:**
  - Type and Number: 1 - Type 10 VT-25
  - 3 - Type 38A VT-38

**PART B - TACTICAL CHARACTERISTICS**

- **Range:** 5 Miles.
- **To Communicate With:** SCR-131, SCR-195, SCR-245, and SCR-290.
- **To Replace in Part:** SCR-77-6
- **Transportation:** Carried by Vehicle, or 2-man
- **Type of Signal:** CW Only.

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter &amp; Receiver, BC-118</td>
<td>22#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand Generator, GM-35</td>
<td>20-1/2#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antenna Loop, LP-7</td>
<td>1-5/8#</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 76#
**Combined Volume of Components:** 6 cu. ft.
**Ship Tonnage:** 90#
**SCR-161**

**Nomenclature Designation**

**Part A - Technical Characteristics**

- **Frequency Ranges (MHz):** Trans., 3.37 to 5.1.
- **Number of Crystal(s):** None
- **Antenna:** Loop LP-7
- **Tuning:** (MD or XTAL): MD
- **Sensitivity:**
- **Power Sources:** Trans.: Hand Generator 30-v., Dry Battery 6-1/2 & 1/2-v.
- **Similar Source:** SCR-151 (Different Frequency)
- **Power Output:** (Watts): 5
- **Tubes:** (Type and Number) 1 60-151 Trans./Revr.
  1 - Type 10, VT-25
  3 - Type 846, VT-4

**Part B - Tactical Characteristics**

- **Use:** Used by Field Artillery. Command Communication between Div., Artillery and Regiment and from Regiment to Battalions. Also used for Liaison Purposes between Artillery Units. On Grounds: Eng., Lt. Med. & Fty.
- **Range:** (Miles): 5
- **To Communicate With:** SCR-161, SCR-288 and SCR-245.
- **To Replace in PARTS:** SCR-77-B and 105.
- **Transportation:** Carried in Vehicle, Trunk, Pack, or Horsed Pack.
- **Type of Signal:** CW Only.

**Part C - Principal Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Radio Receiver &amp; Transmitter 60-151</td>
<td></td>
<td>22</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>1 Hand Generator GN-35</td>
<td></td>
<td>20</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>1 Antenna Loop LP-7</td>
<td></td>
<td>1</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 76#<br>
**Combined Volume:** 6 cu.ft.<br>
**Ship Tonnage:** 90ft.

RADIO SET SCR-161 IN OPERATING POSITION
LOW POWER, PORTABLE COMMUNICATION SET, REPLACED BY SCR-286.

Page 24
**SCR-171**

**PART A - TECHNICAL CHARACTERISTICS**

CLASSIFICATION: 

FREQUENCY RANGE: (MO) Trans. 2.44 to 3.04.

NUMBER OF CRYSTALS: None.

PRESET FREQUENCIES: None.

ANTENNA: 60 ft. "L" type with counterpoise on ground.

TUNING (MO or XTAL): MO

SENSITIVITY:

SELECTIVITY:

POWER SOURCE: TRANS. AND GENERATOR GN-35 10 & 600 V, RECHARGABLE 3.4 & 5.5 V. DRY BATTERIES.

SIMILAR SETS: SCR-151, and 151 (EXCEPT FREQUENCY AND ANTENNA).

POWER OUTPUTS: (RATIOS) 5

TUBES: (TYPE AND NUMBER) 1 - Type 10 VT-25

3 - Type 864 VT-22

**PART B - TACTICAL CHARACTERISTICS**

CLASSIFICATION: 

USE: USED BY INFANTRY, FIELD ARTILLERY, SIGNAL CORPS, AIR CORPS, FOR COMB. CORP., BETWEEN DIV., MG, AND BRIGADE. ALSO BETWEEN DIV., MG, AND REGIMENT.

RANGE: (MILES) 15

TO COMMUNICATE WITH: SCR-171, SCR-203, SCR-209, SCR-151, and SCR-258.

TO REPLACE IN PART: SCR-159, SCR-190, and 130.

TRANSPORTATION: CARRIED IN VEHICLE, OPERATED ON GROUND.

TYPE OF SIGNAL: CW ONLY.

**PART C - PRINCIPAL COMPONENTS**

CLASSIFICATION: 

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver &amp; Transmitter BC-156</td>
<td>24 1/2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Generator GN-35</td>
<td>20 1/2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Antenna AM-19</td>
<td>1 1/2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 216 #

COMBINED VOLUME: 216 #

SHIP TONNAGE: 216 #
### SCR-177

#### PART A - TECHNICAL CHARACTERISTICS

- **Frequency Range**: 1.5 to 4.5 MHz
- **Number of Crystals**: None
- **Preset Frequencies**: None
- **Antenna**: Ground-foot 48 to 28 k ohms, 48 to 14.5 MHz
- **Tuning**: MO or XTAL
- **Sensitivity**
- **Selectivity**
- **Power Output**: 75 W at 85% mod.

#### PART B - TACTICAL CHARACTERISTICS

- **Use**: SCR-Ci, SCR-Bn, Div SCR, Co, R.S., Co, AA, R.S., R.S.
- **Power Output**: 75 W at 85% mod.
- **Type of Signals**: CW, Tone, Voice, A.M.
- **Range**: (Miles) CW-100; Tone-70; Voice-50.
- **To Communicate With**: SCR-177-B, SCR-177-B, SCR-179-B, SCR-258; SCR-257.
- **To Replace In Part**: SCR-132-A, SCR-136.
- **Transportation**: Carried in vehicle or operated on ground.

#### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Radio Trans. BC-191-A</strong></td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
<tr>
<td><strong>Radio Recvr. BD-189-A</strong></td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
<tr>
<td><strong>Power Unit PE-49</strong></td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
</tbody>
</table>

- **Combined Weight of Components**: 0.65 lb
- **Combined Volume**: 20 cu. ft.

---

**NOTE**: This sheet is classified. Unclassified.
PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION:

FREQUENCY RANGE: (MHz) Trans., 4.0 - 4.5; Recev., 3.15 - 4.0

NUMBER OF CRYSTALS: None

PRESET FREQUENCIES: None

ANTENNA: Crown-foot, 1/4 to 8 mc/1.5 to 0.5; Inverted "L", 21-A, 22-A, 23-A, 25-A, 26 & 27.

TUNING: MO or XTL (GD) MO

SENSITIVITY: SELECTIVITY:

POWER SOURCE: Trans., PE-49; Recev., DM-21, and 12V battery.

SIMILAR SETS: SCR-108-A

POWER OUTPUT (Watts): 75 @ 100% mod.

TUBES: (Type and Number)

- 6C4
- 6M7
- 6N7
- 6K7
- 682
- 2113PL

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION:

USE:
- SCR-177 in Ground Radio
- SCR-177 in Ground Signal Equipment
- SCR-177-A in Ground Radio
- SCR-177-B in Ground Signal Equipment

RANGE: (Miles) CB-100; Tone-70; Voice-50.

TO COMMUNICATE WITH:
- SCR-177-A
- SCR-177-B
- SCR-177-C
- SCR-177-D
- SCR-177-E
- SCR-177-F
- SCR-177-G
- SCR-177-H
- SCR-177-I
- SCR-177-J
- SCR-177-K
- SCR-177-L
- SCR-177-M
- SCR-177-N
- SCR-177-O
- SCR-177-P
- SCR-177-Q
- SCR-177-R
- SCR-177-S
- SCR-177-T
- SCR-177-U
- SCR-177-V
- SCR-177-W
- SCR-177-X
- SCR-177-Y
- SCR-177-Z

TO REPLACE IN PARTS:
- SCR-150-A
- SCR-150-B
- SCR-150-C
- SCR-150-D
- SCR-150-E
- SCR-150-F
- SCR-150-G
- SCR-150-H
- SCR-150-I
- SCR-150-J
- SCR-150-K
- SCR-150-L
- SCR-150-M
- SCR-150-N
- SCR-150-O
- SCR-150-P
- SCR-150-Q
- SCR-150-R
- SCR-150-S
- SCR-150-T
- SCR-150-U
- SCR-150-V
- SCR-150-W
- SCR-150-X
- SCR-150-Y
- SCR-150-Z

TRANSPORTATION: Carried in vehicle, operated on ground.

TYPE OF SIGNAL: CW, TONE, VOICE, A.M.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION:

ITEM

- Trans., 60-191
- Recev., 60-314
- Recev., 60-312
- Power Unit PE-49

DIMENSIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans. 60-191</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recev. 60-314</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recev. 60-312</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME OF COMPONENTS:

SHIP TONNAGE:

THIS SHEET IS CLASSIFIED: UNCLASSIFIED
**SCR-178**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE**: Trans. 2.4 - 3.7, Recvr. 2.4 - 3.7.
- **NUMBER OF CRYSTALS**: None.
- **PRESET FREQUENCIES**: None.
- **ANTENNA**: 27 Ft., Fishpole with Counterpoise.
- **TUNING (MO or XTAL)**: MO.
- **SENSITIVITY**: Selectivity.
- **POWER SOURCE**: Trans.-Hann Generator 8 & 500 V., Recvr.-Cherry Batteries - 4 BA-21, 4 SA-23 and 2 BA-27.
- **SIMILAR SETS**: SCR-179.
- **POWER OUTPUTS (Watts)**: CW - 5; Tone - 2; Voice - 2.2.
- **TONE**: 100%, Voice - 90% Modulation.
- **TUBES (Type and Number)**: Trans. BC-186, Recvr. 2 type 30, 2 type 34.
- **TYPE OF SIGNALS**: CW, Tone, Voice.
- **RANGE (MILES)**: Point to Point CW - 25; Tone - 20; Voice - 10.
- **AIR TO GROUND**: CW - 100; Tone - 75; Voice - 100.
- **TO COMMUNICATE WITH**: SCR-179; SCR-177.
- **TO REPLACE IN PARTS**: SCR-109-A.
- **TRANSPORTATION**: Carried in vehicles.

**PART B - TACTICAL CHARACTERISTICS**

- **USE**: Used by the Field Artillery. On Grounds, FA, Med., H/T, or Lt. Bn HQ, Bn HQ, Bn HQ, in Point to Point and Ground to Plane between all FA units, (except Foe) and aircraft for observation purposes.

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Radio Trans. BC-187-A</td>
<td>Height 12.2&quot;, Width 6.1&quot;, Depth 9.2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>1 Radio Modulator BC-186-A</td>
<td>Height 12.2&quot;, Width 6.1&quot;, Depth 9.2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>1 Radio Recvr. BC-186</td>
<td>Height 12.2&quot;, Width 6.1&quot;, Depth 9.2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>1 Generator GN-37</td>
<td>Height 12.2&quot;, Width 6.1&quot;, Depth 9.2&quot;</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components**: 200 lbs.

**Combined Volume**: 1 cu. ft.

**Ship Tonnage**: 224 lbs.
# SCR-179

## Technical Characteristics

<table>
<thead>
<tr>
<th>Part A</th>
<th>Technical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency Range:</strong></td>
<td>Transmitter, 2.4 – 3.7</td>
</tr>
<tr>
<td><strong>Number of Crystals:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Preset Frequencies:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Antenna:</strong></td>
<td>27 foot fishpole, with counterpoise</td>
</tr>
<tr>
<td><strong>Tuning:</strong></td>
<td>(MO or XTAL) MO</td>
</tr>
<tr>
<td><strong>Sensitivity:</strong></td>
<td>SELECTIVITY</td>
</tr>
<tr>
<td><strong>Power Source:</strong></td>
<td>Radio Generator GN-37, 4 and 500 V.</td>
</tr>
<tr>
<td><strong>Dry Batteries as follows:</strong></td>
<td>4 BA-25; 2 BA-27</td>
</tr>
<tr>
<td><strong>Similar Sets:</strong></td>
<td>SCR-179</td>
</tr>
<tr>
<td><strong>Power Output:</strong></td>
<td>(Watts) CW=5; Tone=5; Voice=2.2</td>
</tr>
<tr>
<td><strong>Tone-100K; Voice-95% Modulation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Tubes:</strong></td>
<td>(Type and Number) 1 BC-186; 1 BC-187-A; 2 BC-104</td>
</tr>
<tr>
<td><strong>Tubes:</strong></td>
<td>4 BC-187, 2 BC-104, 1 BC-187-A; 2 BC-104, 1 BC-187-A</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>15 tubes</td>
</tr>
</tbody>
</table>

## Tactical Characteristics

<table>
<thead>
<tr>
<th>Part B</th>
<th>Tactical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Usage:</strong></td>
<td>Field Artillery, Horse and Pack Artillery, operates on ground</td>
</tr>
<tr>
<td><strong>Range:</strong></td>
<td>(Miles) Point-to-Point: CW=25; Tone=20; Voice=10, Air-to-Ground: CW=100; Tone=75; Voice=30</td>
</tr>
<tr>
<td><strong>To Communicate With:</strong></td>
<td>Radio Set SCR-178, SCR-179, and SCR-236</td>
</tr>
<tr>
<td><strong>To Replace Parts:</strong></td>
<td>Radio Set SCR-109-A</td>
</tr>
<tr>
<td><strong>Transportation:</strong></td>
<td>Horse Pack</td>
</tr>
<tr>
<td><strong>Type of Signal:</strong></td>
<td>CW – Tone – Voice (A.M.)</td>
</tr>
</tbody>
</table>

## Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Modulator, BC-188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Transmitter, BC-187</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Receiver, BC-186</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Generator GN-37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combined Weight of Components</td>
<td></td>
<td>205 lbs</td>
</tr>
<tr>
<td>Combined Volume of Components</td>
<td></td>
<td>5 cu.ft.</td>
</tr>
</tbody>
</table>

## Notes
- SCR-179 is a low power set for point-to-point and ground-to-air communication. This set is identical with Radio Set SCR-178 except carrying cases have pack saddle hangers.

---

This page contains classified information.
SCR-183

NOMENCLATURE DESIGNATION

NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION

STATUS:

LIMITED STANDARD

13 Nov 45

INSTRUCTIONAL LITERATURE:

Tm 11-200

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION

FREQUENCY RANGE: RECEIVING = 201-798 Kc.

lm700-7700 Kc. TRANSMITTING = 2500-7700 Kc.

NUMBER OF CRYSTALS: NONE

PRESET FREQUENCIES: NONE

ANTENNA: 5 FT. VERTICAL MAST ANTENNA,

TRANSMITTING = 17 FT. OR 60 FT. TYPE 10 TO 18 FT. LONG.

TUNING: (MO OR XTAL) NO

SENSITIVITY: SELECTIVITY

POWER SOURCE: 12 V. PLATE BATTERY.

SIMILAR SETS: SIMILAR TO SCR-283 EXCEPT 12 V.

POWER OUTPUT: (BATT) VOICE 3.5 TONE 3.2 ON 4.0.

TUBES (TYPE AND NUMBER): 4 TYPE 59/66

1 TYPE 57

1 TYPE 56

2 TYPE 10

2 TYPE 45 RPL.

(TUBE CONTENT SHOWN ABOVE PERTAINS TO SCR-AB-183)

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION

USE: COMMAND SET - PLANE-TO-PLANE; PLANE-TO-GROUND

COMMUNICATIONS.

RANGE: (MILES) 30-45 MILES PLANE-TO-PLANE.

10-20 MILES PLANE-TO-GROUND.

TO COMMUNICATE WITH OTHER EQUIPMENT WITHIN RANGE

OF EACH OTHER COVERING BAND FREQUENCIES.

TO REPLACE IN PARTS.

TRANSPORTATION: AIRBORNE INSTALLATION.

TYPE OF SIGNAL: CW, TONE; VOICE.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION

ITEM

Dimensions

Height

Width

Depth

Weight

Classification

Radio Receiver, BD-229

7 3/8

8 1/8

11 11/16

12.0

Radio Trans., BD-230

7 3/8

6 5/8

13 1/4

10.2

Dynamotor Unit BD-83 BD-83

4 5/8

4

2 7/16

9.9

Radio Control Box BD-231

2 11/16

4

5/8

9

Radio Control Box BD-252

2 1/16

4

5/8

9

Antenna Sw. Relay BD-196

4 9/16

4 5/8

2 3/4

1.1

2 REGUAR DIODES (ONE IS A DUAL DIODE)

6 TRANS. DIODE SETS.

COMBINED WEIGHT OF COMPONENTS:

13.55 (INCLUDING MINOR CLOTH)

COMBINED VOLUME:

165 GALL.

SHIP TONNAGE:

125 GALL.

PAGE 30

THIS SHEET IS CLASSIFIED: UNCLASSIFIED

Original from
UNIVERSITY OF CALIFORNIA
SCR-187

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: RECVR. 1.5 - 18 Mc., TRANSMITTER 1.5 - 12.5 Mc., 200 - 2000 kHz 60 - 1500 kHz.

NUMBER OF CRYSTALS: NONE

PRESENT FREQUENCY: NONE

ANTENNA: PIN NICKEL MOUNTED IN PLACE 1.5 METERS IN WIRE LENGTH.

TUNING: (MO OR XTAL) MO

SENSITIVITY: SELECTIVITY

POWER SOURCE: 12 - 15 VOLT AIRPLANE BATTERY SUPPLIED

SIMILAR SETS: SCR-287

POWER OUTPUT (Watts): 30 - 60 WATTS

TUBES: (TYPE AND NUMBER) SCR-MA-137 USERS

TRANSMITTER 1 VT-35

RECEIVER 1 VT-37

1 VT-36

1 VT-49

PART B - TACTICAL CHARACTERISTICS

USE: AIR-GROUNDED, AIR-GROUNDED COMMUNICATION

RANGE (MILES) 50 TO SEVERAL HUNDRED MILES

TO COMMUNICATE WITH: SCR-186; SCR-195; SCR-197; SCR-299;

TO REPLACE IN PARTS:

TRANSPORTATION: AIRBORNE INSTALLATION

TYPE OF SIGNAL: VOICE, TONE, CW

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM

DIAMETERS

WEIGHT

CLASSIFICATION

RADIO TRANSMITTER SCR-187

RECEIVER SCR-228, CONTAINS CRYSTAL FILTER

ANTENNA TUNING UNIT SCR-187, COMPONENTS

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP TONNAGE:

NOTE: DUE TO VARIATIONS IN AIRCRAFT INSTALLATIONS, BOTH WEIGHTS AND VOLUMES OF COMPLETE SETS VARY CONSIDERABLY AND THE FIGURES SHOWN ARE THEREFORE APPROXIMATE.
**SCR-188**

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:**
  - **Trans.:** 1.5 - 12.5 MHz
  - **Recvr.:** 0.1 - 73 MHz
- **NUMBER OF CRYSTALS:** 1 as Xtal Oscillator
- **Preset Frequencies:**
- **Tuning:** (MD or Xtal) MD
- **Sensitivity/Selectivity:**
- **Power Source:** Trans., PE-199-A; Recvr., BD-AA-69, BD-AA-69, BD-AA-69, BD-AA-69, with 12 V Storage Battery
- **Similar Sets:** SCR-177-A except frequency
- **Power Outputs (Batts):** 85E modulation tones, Y1105
- **Tubes:** (Type and Number) 1 BC-199-A, 1 Type 361, 1 Type 361, 1 Type 361, 1 Type 361, 1 Type 361, 1 Type 361, 1 Type 361, 1 Type 361

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** AC Pursuit
- **Attacks:** 1 SPM, 1 SPM, 1 SPM
- **Site Co:** 1 ANS Co
- **RANGES (MILES):** CR-100; Tone-70; Voice-30
- **To Replace in Parts:** None
- **Transportation:** Vehicles or Planes (Operated on Ground Only)
- **Type of Signal:** CW; Tone; Voice (A.M.)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HEIGHT</td>
</tr>
<tr>
<td>Radio Trans., BC-AA-191</td>
<td></td>
</tr>
<tr>
<td>Radio Recvr., BC-189-A</td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-199-A</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

1,150 lbs

**Combined Volume of Components:**

25 cu. ft.

**Radio Set SCR-188, In Operating Position**

**Changing in Status:**

**STATUS:**

**STANDARD:**

24 Rec 33

**INSTRUCTIONAL LITERATURE:**

TM 11-233.
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (Mo) Trans. 1.5 - 12.5
Receiv. 1.5 - 18.0

NUMBER OF CRYSTALS:

PRESET FREQUENCIES:


TUNING: (MO OR XTAL) NO

SENSITIVITY:

SELECTIVITY:


SIMILAR SETS: SCR-177-B

POWER OUTPUT: (Watts) 75 @ 85% MOD. TONE & VOICE.

TUBES: (Type and Number)

1-581 1-694 1-71115PL
2-565 1-697 1-2115PL
2-654 1-6A/6T 2-666A

PART B - TACTICAL CHARACTERISTICS


RANGE: (MILES) On 100; Tone 70; Voice 30.

TO COMMUNICATE WITH: SCR-183; SCR-187; SCR-185; SCR-189; SCR-252-A; SCR-260-A; SCR-252-A; SCR-257; SCR-258; SCR-258-A.

TO REPLACE IN PART: None

TRANSPORTATION: Vehicles or airplanes (operated or aboard only).

TYPE OF SIGNAL: CB; Tone; Voice. (A.M.)

PART C - PRINCIPAL COMPONENTS

ITEM

DIMENSIONS

WEIGHT

CLASSIFICATION

Trans. BC-191
Recvr. BC-342
Power Unit PE-75
Rectifier RA-34

COMBINED WEIGHT OF COMPONENTS: 128 lb

COMBINED VOLUME OF COMPONENTS:

SHIP TONNAGE:

This sheet is classified: UNCLASSIFIED
**SCR-193**

### PART A - TECHNICAL CHARACTERISTICS
- **Frequency Range**: 1.5 to 4.5 MHz
- **Receiv.**: 1.5 to 10 MHz
- **Number of Crystals**: None
- **Preset Frequencies**: None
- **Antenna**: 15' Fishpole on Flexible Mast Base
- **Tuning**: MO or STX
- **Sensitivity**: Selectivity
- **Power Source**: Trans. Dynamo unit 90-77
- **Similar Set**: SCR-177-B
- **Power Output**: 75 watts at 100% Modulated
- **Tubes**: (Type and Number)
  - 6 VT-60: 1 in use, 1 spare
  - 6 VT-61: 1 in use, 1 spare
  - 2 VT-65: 1 in use, 1 spare
  - 2 VT-66: 1 in use, 1 spare
  - 4 VT-69: 4 in use, 4 spare

### PART B - TACTICAL CHARACTERISTICS
- **Use**: Car, 4x4 Truck (HMMWV), Scout. Track. (HMMWV)
- **Emery**: By, AW, RE, AM, BN
- **Serie**: HD, HMMWV, CT 6 Mt OPM, Shtt, Scout Cars, Half Tracks etc.
- **Range (Mile)**: Stationary - CR-60; Tone-40; Voice-20; Moving - CR-30; Tone-20; Voice-15
- **To Communicate With**: SCR-171, SCR-177, SCR-179, SCR-131, SCR-107, SCR-119, SCR-115, SCR-297
- **To Replace In Part**: Combat Car M-1; Scout Car M-2; AMM Car T-71; AMM Car M-1
- **Type of Signal**: PRT 2 Tone; Voice (A.M.)

### PART C - PRINCIPAL COMPONENTS
- **Radio Trans., RC-191**
- **Radio Recv., RC-512**
- **Dynamo 80-77**

### Dimensions

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined Weight</td>
<td>200 kg</td>
<td></td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Combined Volume</td>
<td>7 cu ft</td>
<td></td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Ship Tonnage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**NOTE**: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

**INSTRUCTIONAL LITERATURE**: TM 11-275

**Change in Status**: 5 Dec 33

**This Sheet is Classified**: UNCLASSIFIED

---

**Installation in Radio Set SCR-193 (1974-4)**

This document contains the technical specifications and operational details of the SCR-193 radio set. It includes information on frequency ranges, power output, and the components used. The radio set was designed for various military vehicles, including the HMMWV and Scout. It is equipped with tubes and has specific ranges for different applications. The set is classified as UNCLASSIFIED for operational use.
SCR-194

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 27.7 to 51.7.
NUMBER OF CRYSTALS: 1 for calibration.
PRESET FREQUENCY: None.
ANTENNA: Adjustable Rod for ground use (12 sections max.). Three section fiberglass for vehicle.
1/2-Round Antenna equipment MG-63 may be added for greater distance.
TUNING (MD or XTAL): MD
SENSITIVITY: SELETIVITY:
POWER SOURCE: Dry Batteries BA-32.
SIMILAR SETS: SCR-195 except for frequency.
POWER OUTPUT: (Watts) .75 W 60% modulation.
TUBES (Type and Number): BD-222 Transmitter,
BD-1 Type 33
1 Type 30 SPL.

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION

USES: Used by Field Artillery, Signal Corps, Armored Forces.
RANGE (MILES): 5
TO COMMUNICATE WITH: SCR-194 only.
TO REPLACE IN PART SCR-161 for Short Range Liaison.
TRANSPORTATION: Man Pack or in vehicle.
TYPE OF SIGNAL: Voice

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION

ITEM
RECV. & TRANS. BD-222 in kit with batteries, antenna, headset, and microphone.
Auxiliary Equipment and Spare Parts in Chest CH-33

WEIGHT
25.10 lbs.
64.14 lbs.

DIMENSIONS
1 Cubic Foot
2 Cubic Feet

COMBINED WEIGHT OF COMPONENTS:
50 lbs.

COMBINED VOLUME:
1.1 Cu. Ft.

SHIP Tonnage:
103 tons.
**SCR-195**

### PART A - TECHNICAL CHARACTERISTICS
- **Frequency Range:** (Mod) 52.0 to 65.8 MHz
- **Number of Crystals:** 1 used for calibration, reference.
- **Preset Frequencies:** None.
- **Antenna:** 8 section - adjustable rod for ground use, two sections - flexible mounting for vehicle.
- **Tuning:** (MO or XTAL) MD

### PART B - TACTICAL CHARACTERISTICS
- **Range:** (Miles) 3
- **To Communicate With:** SCR-195 only.
- **To Replace In Parts:** None.
- **Transmission:** Man pack, or in vehicle.
- **Type of Signal:** Voice.

### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver AKA Trans., BC-322 in Bag with Batteries, Antenna, and handset.</td>
<td>26.0&quot;x9&quot;x12&quot;</td>
<td>64.1 lbs</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Auxiliary Equipment and Spare Parts in Chest CH-33</td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 61 lbs

**Combined Volume:** 11.0 cu. ft.

**Ship Tonnage:** 104 tons

---

**Radio Set SCR-195, Assembled View**

Can be operated while being carried as a one-man pack or from a vehicle "Walkie-Talkie" - physically similar to field pack. Normally, only two sets can be netted. Replaced by SCR-500.
# SCR-197

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** 1.5 GHz
- **Power Source:** Commercial 110V/60Hz
- **Power Output:** 100 watts
- **Antenna:** 40' pole type antenna
- **Tuning:** (MD or XTAL)

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Signal Corps, Air Corps, Ground to Air, Long Range
- **Range:** 1000 miles

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Trans.</td>
<td></td>
<td></td>
<td></td>
<td>80-525</td>
<td></td>
</tr>
<tr>
<td>Radio Recvr.</td>
<td></td>
<td></td>
<td></td>
<td>BC-542</td>
<td></td>
</tr>
<tr>
<td>Truck K-18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trailer K-19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 15,000 lbs

**COMBINED VOLUME:** 196.7 cubic ft
**SCR-203**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 2.1 - 3.1 MHz
- **RECEIVER:** 2.1 - 3.1 MHz
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:**
  - 8 preset frequencies when used on ground. For mounted operation, fewer sections are used.
- **TUNING:** MO or XTAL
- **SENSITIVITY:** MO
- **SELECTIVITY:** MO
- **POWER SOURCE:** 6V-35, 6V-500
- **DAMPING:** 1V, 4V, 5V, 60V, 90V
- **SIMILAR SETS:**
  - **10-10**
  - **10-10A**
  - **10-10B**
- **POWER OUTPUT:** (Watts) 7.5 at 60% modulation.
- **TUBES (TYPE AND NUMBER):** 1 XG-227 OR 6C-227-AS, 1 XG-226 OR 6C-226-AS, 1 X TYPE 50.
- **TYPE OF SIGNAL:** CW; TONE; VOICE.
- **RANGE:** (MILES) ON GROUND: CW-35; TONE-20; VOICE-5.
  - MOVING: CW-10; TONE-6; VOICE-3.
- **TO COMMUNICATE WITH:** SCR-195; 203; 209; 210; 238; 107; 125.
- **TO REPLACE IN PART:** SCR-127; 163-A.
- **TRANSPORTATION:** Horse pack; vehicle.

---

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HEIGHT</td>
</tr>
<tr>
<td>TRANSMITTER 6C-226-A OR 6C-228</td>
<td></td>
</tr>
<tr>
<td>RECEIVER 6C-227-A OR 6C-227</td>
<td></td>
</tr>
<tr>
<td>HAND GENERATOR GU-35</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 1600#

**COMBINED VOLUME:** 10 CUB. FT.

**SHIP TONNAGE:**
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 0.2 - 18.0
NUMBER OF CRYSTALS: None
RESET FREQUENCY: None
ANTENNA: Loop
TUNING: (NO OR XTAL)
SENSITIVITY: 20 - 100 MICROVOLTS PER METER
SELECTIVITY: 
POWER SOURCE: 6-VOLT STORAGE BATTERY
SIMPLER SETS: SCR-503
POWER OUTPUT: (WATTS)

TUBES: (TYPE AND NUMBER)
1 VT-30 1 VT-117
1 VT-50 1 VT-150
2 VT-103 1 VT-152
(NOTE: THE TUBE LINE-UP IS FOR SCR-206-C. EACH MODEL HAS A DIFFERENT SET OF TUBES.)

PART B - TACTICAL CHARACTERISTICS

USE: TO INTERCEPT AND LOCATE ENEMY GROUND STATIONS.
RANGE: (MILES) Short
TO COMMUNICATE WITH: Not Applicable
TO REPLACE IN PART:
TRANSPORTATION: Portable
TYPE OF SIGNAL: Not Applicable

PART C - PRINCIPAL COMPONENTS

ITEM
RECEIVER 80-470
ANTENNA (SENS) (EACH SET.)
LOOP LP-22
BATTERY BOX

DIMENSIONS
24 1/8" 16 3/8" 15 1/2"
35 5/8"
17 5/8" 15 0"
11 1/2"

WEIGHT: 65.5 lbs

CLASSIFICATION: 

COMBINED WEIGHT OF COMPONENTS: 

COMBINED VOLUME OF COMPONENTS: 

SHIP TONNAGE:

THIS SHEET IS CLASSIFIED: UNCLASSIFIED
**SCR-209**

**Nomenclature Designation**

**PART A - TECHNICAL CHARACTERISTICS**

Classification

Frequency range (MHz): Trans. 2.2 - 2.6, Reg. 1 - 5 - 10.0 (BC-312); 2.0 - 3.0 (BC-189)

Number of crystals: 12

Reset frequencies:

- Antenna: 15' 5 section fishpole or MP-1A or 37
- Tuning: MD or XTAL

Sensitivity: Delectivity

Power source: Motor generator and battery unit PE-48, Reg. dynamotor unit RD-69

Similar sets:

<table>
<thead>
<tr>
<th>Power Output (Watts)</th>
<th>Transmitter</th>
<th>Tone</th>
<th>Voice</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>60% TONE</td>
<td>40% VOICE</td>
<td></td>
</tr>
</tbody>
</table>

Tubes (Type and Number):

- VT-25
- VT-34
- VT-36
- VT-60
- VT-50

**PART B - TACTICAL CHARACTERISTICS**

Classification

Use: Combat and Scout Car

Range (Miles):

- Stationary: OR-30
- Moving: OR-10

Voice:

- OR-30: Voice-3
- OR-10: Voice-7

To communicate with:

- SCR-199
- SCR-209
- SCR-210
- SCR-218

To replace in parts:

- SCR-199
- SC-199

Transportation:

- Vehicles

Type of signals:

- OR: Tone
- VOICE: AM

**PART C - PRINCIPAL COMPONENTS**

Classification

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height</td>
<td>Width</td>
</tr>
<tr>
<td>Radio Trans. BC-176-A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Trans. Reg. BC-189</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Reg. BC-312-A-80-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Generator PE-48</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 165 lbs

**Combined Volume:** 6 cu. ft.

**Ship Tonnage:**

---

Radio Set SCR-209 in Operating Position.

Very few of these sets using receiver BC-189 are now in use. SCR-209 is being replaced by SCR-345.
### SCR-210

**PART A - TECHNICAL CHARACTERISTICS**

- **Classification:** [Classification]
- **Frequency Range:** 1.5 – 18.0 (Receiver only)
- **Number of Crystals:** None
- **Preset Frequencies:** None
- **Antenna:** 15' 5 section fibreglass or WD-14 or 37.
- **Tuning (MO or XTAL):**
- **Sensitivity:**
- **Selectivity:**
- **Power Source:** Dynamo or 12V or 24V car battery
- **SIMILAR SETS:**
- **Power Output:** (Watts)

<table>
<thead>
<tr>
<th>TUBES</th>
<th>TYPE AND NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>6K6</td>
</tr>
<tr>
<td>1</td>
<td>6K7</td>
</tr>
<tr>
<td>2</td>
<td>6K7T</td>
</tr>
<tr>
<td>1</td>
<td>6K7T</td>
</tr>
<tr>
<td>1</td>
<td>6K7T</td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

- **Classification:** [Classification]
- **Use:** Signal Corps School & Armored Repr. Cen by
  Dr. Arms. In any vehicle where separate receiver is required.
- **Range (Miles):**
- **To Communicate With:**
- **To Replace In:** SCR-190
- **Transportation:** Vehicle
- **Type of Signal:** CW, Tone, Voice

**PART C - PRINCIPAL COMPONENTS**

- **Classification:** Restricted

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HEIGHT</td>
<td>WIDTH</td>
<td>DEPTH</td>
</tr>
</tbody>
</table>

- **Combined Weight of Components:** 71 lb
- **Combined Volume:** 200 ft³
- **Ship Tonnage:**

---

THIS SHEET IS CLASSIFIED: UNCLASSIFIED

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**SCR-211**

**PART A - TECHNICAL CHARACTERISTICS (CLASSIFICATION)**
- **FREQUENCY RANGE:** 125 - 260 kHz
- **NUMBER OF CRYSTALS:** 2 CRYSTAL DO-9-F
- **PRESET FREQUENCIES:** None
- **ANTENNA:** 2 to 3 foot No. 12 B&H Hard Drawn Wire
- **TUNING (MO OR XTAL):** XTAL
- **SENSITIVITY:**
- **POWER SOURCE:** BA-23 (9) BA-22 (6)
- **SIMILAR SETS:**
- **POWER OUTPUTS (WATTS):**
- **TUBES (TYPE AND NUMBER):** SCR-211-C
  - 1 BD-221-C
  - 1 TYPE 75
  - 1 TYPE 77
  - 1 TYPE 647

**PART B - TACTICAL CHARACTERISTICS (CLASSIFICATION):**
- **USE:** For calibrating and adjusting aircraft and field radio sets
- **RANGE (MILES):**
- **TO COMMUNICATE WITH:**
- **TO REPLACE IN PART:**
- **TRANSPORTATION:** PORTABLE
- **TYPE OF SIGNAL:**

**PART C - PRINCIPAL COMPONENTS (CLASSIFICATION):**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Meter BD-221</td>
<td>13.13</td>
<td>10.13</td>
<td>9.44</td>
<td>17.16</td>
</tr>
<tr>
<td>Crystal Unit DC-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calibration Book MD-177</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 38 (COMPLETE WITH BAND)

**SHIPS Tonnage:** 42
## PART A - TECHNICAL CHARACTERISTICS

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION

**NOMENCLATURE DESIGNATION:**

**SCR-237**

### FREQUENCY RANGE:
- (MHz) Trans.: 1.2 - 1.5; 2 - 18
- Recvr.: 1.5 - 18

### NUMBER OF CRYSTALS:
- Preset Frequencies: 10

### ANTENNA:
- Inverted L

### TUNING:
- (MO or XTAL) MO

### SENSITIVITY:
- Selectivity

### POWER SOURCE:
- 110V AC 60 CYCLES AUX.
- Power PL 500, 1100V 60 CYCLES, PE-75

### SIMILAR SETS:
- POWER OUTPUT: (Watts) APPROX. 90

### TUBES:
- (Type and Number)
  - NO TUBE COMPLEMENT AVAILABLE.

### USE:
- Air Corps: On ground - Air Corps Squadrons, Ground-to-air, Point-to-Point Communication.

### RANGE:
- (Miles) 750 Using On Ground-to-Air.

### TO COMMUNICATE WITH:
- SCR-185; SCR-187; SCR-188; SCR-189; SCR-197; SCR-200; SCR-201; SCR-205; SCR-206; SCR-208; SCR-209; SCR-210; SCR-212; SCR-214; SCR-506; SCR-536.

### TO REPLACE IN PART:
- SCR-180-A

### TRANSPORTATION:
- Truck or Cargo Aircraft - Operation as Fixed Station

### TYPE OF SIGNAL:
- CW; Tone; Voice

## PART B - TACTICAL CHARACTERISTICS

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION

**NOMENCLATURE DESIGNATION:**

**SCR-237**

### USE:
- Air Corps: On ground - Air Corps Squadrons, Ground-to-air, Point-to-Point Communication.

### RANGE:
- (Miles) 750 Using On Ground-to-Air.

### TO COMMUNICATE WITH:
- SCR-185; SCR-187; SCR-188; SCR-189; SCR-197; SCR-200; SCR-201; SCR-205; SCR-206; SCR-208; SCR-209; SCR-209; SCR-210; SCR-212; SCR-214; SCR-506; SCR-536.

### TO REPLACE IN PART:
- SCR-180-A

### TRANSPORTATION:
- Truck or Cargo Aircraft - Operation as Fixed Station

### TYPE OF SIGNAL:
- CW; Tone; Voice

## PART C - PRINCIPAL COMPONENTS

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION

**NOMENCLATURE DESIGNATION:**

**SCR-237**

### ITEM
- Transmitter AN-78 (Navy ATC)
- Receiver BC-542

### DIMENSIONS
- HEIGHT
- WIDTH
- DEPTH

### WEIGHT

### CLASSIFICATION
- Restricted
- Unclassified

### COMBINED WEIGHT OF COMPONENTS:

### COMBINED VOLUME:

### SHIP TONNAGE:

---

**PAGE 43**
**SCR-242**

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

- Frequency Range: 15 - 1.5, 1.75 MHz
- Number of Crystals: None
- Preset Frequencies: ---
- Antenna: Vertical half 5' or 2.6' & Loop Antenna mounted on airplane with remote control of rotation
- Tuning: (MO or XTAL) MO
- Sensitivity: Selectivity
- Power Source: 1/2 volt D.C., and Dynamotor DM-18
- Similar Sets: SCR-186
- Power Output: (Watts) Receiver only
- Tubes: (Type and Number)
  - 1 VT-66
  - 6 VT-84
  - 1 VT-87
  - 1 VT-85
  - 1 VT-44

**PART B - TACTICAL CHARACTERISTICS**

- Use: Aural reception of modulated radio frequency energy or visual unidirectional, right-left indication of the direction of arrival of radio frequency energy with respect to the plane of the loop and simultaneous "on course" aural reception of modulated radio frequency energy. Navigation & homing aid in aircraft.
- Range: (Miles) ---
- To Communicate With: ---
- To Replace in Parts: SCR-186
- Transportation: Aircraft installation
- Type of Signal: Receives CW Tone Voice

**PART C - PRINCIPAL COMPONENTS**

- Classification: Restricted
- Item
  - BC-310-A Radio Compass Unit
  - BD-311-A Radio Control Box
  - LP-13-A Loop
  - CB-5-A Loop Mounting
  - M-169-A Loop Mounting Cap
  - I-45 Compass Indicator
  - MD-126 Tuning Shaft
  - MD-127 Tuning Unit
  - TM-100-A Junction Box (for planes which do not contain built in panel or junction box).

**DIMENSIONS**

- Item
  - BC-310-A
  - BD-311-A
  - LP-13-A
  - CB-5-A
  - M-169-A
  - I-45
  - MD-126
  - MD-127
  - TM-100-A

**WEIGHT**

- Item
  - BC-310-A
  - BD-311-A
  - LP-13-A
  - CB-5-A
  - M-169-A
  - I-45
  - MD-126
  - MD-127
  - TM-100-A

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME:**

**SHIP TONNAGE:**

---

**GENERAL VIEW OF SET IN OPERATING POSITION**

SCR-242 IS AN AIRCRAFT RADIO COMPASS, MANUALLY TUNED FROM LOCAL OR REMOTE STATION.
SCR-244

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 0.54 - 20
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: NOT APPLICABLE
TUNING: NOT APPLICABLE
SENSITIVITY: Selectivity: 0.5
POWER SOURCE: 105/125 VAC, 60/40
SIMILAR SETS: 1 VT-54, 1 VT-97, 1 VT-96
POWER OUTPUT: (Watts) NOT APPLICABLE

TUBES (TYPE AND NUMBER):
1 VT-54
1 VT-97
1 VT-96
1 VT-116
1 VT-86
1 VT-91
1 VT-117

PART B - TACTICAL CHARACTERISTICS

USE: INTERCEPT RECEIVER FOR COMMUNICATION AND MONITORING PURPOSES.
RANGES (MILES) DOES NOT APPLY
TO COMMUNICATE WITH:
TO REPLACE IN PARTS:
TRANSPORTATION:
TYPE OF SIGNAL: AM - CR

PART C - PRINCIPAL COMPONENTS

ITEM
RECEIVER
POWER UNIT

DIMENSIONS
HEIGHT 12.25" 8.25"
WIDTH 23" 13"
DEPTH 16.5" 8.5"
WEIGHT
700
350

COMBINED WEIGHT OF COMPONENTS
1150

COMBINED VOLUME OF COMPONENTS

SHIP TONNAGE

PAGE 45
**SCR-245**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** (MO) Trans. 2.0 - 4.5, May be extended to 5.2 MHz by using TU-259-A, Routes 1-5, 15, 30.
- **NUMBER OF CRYSTALS:** 4 in Tuned.
- **ANTENNA:** 75 ft. five section fishpole on flexible mast base.
- **SENSITIVITY:**
  - **POWER SOURCE:** Trans.: Dynamotor unit 12 v., storage battery.
  - **SIMILAR SETS:**
- **POWER OUTPUT:** (watts) 10 100% modulation.
- **TUBES:** 1-602-A Trans., 2 Type 611-A & 2 Type 615-1 BC-312 Regs., 2-625,
- **RANGE:** (miles) CR-15 to 15
- **TO REPLACE IN PARTS SCR-199, 199, and 200.
- **TRANSPORTATION:** Transported or operated in vehicles.

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** Used by AF, NA, SC, INF, CAS, FA.

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Trans. BC-223</td>
<td>14 1/2&quot; x 11 1/2&quot; x 3 1/2&quot;</td>
<td>26.5 lbs</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Radio Regn. BC-312</td>
<td>10 5/8&quot; x 12 1/2&quot; x 3 1/2&quot;</td>
<td>12 lbs</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Vehicular Antenna</td>
<td>12 1/2&quot; x 13 3/8&quot; x 7 5/8&quot;</td>
<td>3 lbs</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Dynamotor Unit PE-55</td>
<td>12 1/2&quot; x 13 3/8&quot; x 7 5/8&quot;</td>
<td>3 lbs</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 285 lbs

**COMBINED VOLUME:** 50 cu. ft.

**SHIP TONNAGE:**
SCR-246

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 195 - 420 kHz.

NUMBER OF CRYSTALS: None

PRESET FREQUENCIES: None

ANTENNA: 8° Loop, Non-directional (usually vertical). No local, one remote control position.

TUNING: (MD or XTAL) MD

SENSITIVITY: Selectivity

POWER SOURCE: 12 volt storage battery and CH-29.

SIMILAR SETS: SCR-276 except for input voltage.

POWER INPUT: (Watts) 70 watts consumption.

TUBES: (Type and Number) SCR-216-A uses 1-6Q5, 1-6L7, 2-6L7, 2-435A, 2-566

PART B - TACTICAL CHARACTERISTICS

USE: Navigational instrument. Radio compass homing device. Provides visual, unidirectional right-left indication showing direction of the radio signal source with respect to the aircraft heading. May also be used as a radio range or radio broadcast receiver, providing aural reception of modulated signals.

RANGE: (MILES) 0 to 300 miles

TO COMMUNICATE WITH: Receives only radio beacon transmission.

TO REPLACE IN PART: 

TRANSPORTATION: Aircraft installation.

TYPE OF SIGNAL: CW

PART C - PRINCIPAL COMPONENTS

ITEM | DIMENSIONS | WEIGHT | CLASSIFICATION
---|---|---|---
Radio Compass Unit 8Q-373 | Restricted
Radio Control Box 8Q-378 | Restricted
Loop LP-17 | Indicator

COMBINED WEIGHT OF COMPONENTS: 32 lbs

COMBINED VOLUME: 0 cubic feet

SHIP Tonnage: 15.5 cubic feet
**SCR-255**

**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (NO) 450 - 3000

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:** None

**ANTENNA:** Add-on

**TUNING:** (NO OR XTAL)

**SENSITIVITY:** 20 - 100 microvolts/meter

**SELEETIVITY:**

**POWER SOURCE:** 6V storage battery

**SIMILAR SETS:** None

**POWER OUTPUT:** (WATTS)

**TUBES:** (TYPE AND NUMBER) 1 VT-66, 1 VT-66, 3 VT-86, 3 VT-91, 1 VT-91, 1 VT-99, 1 VT-126, 1 VT-126, 1 VT-163

**PART B - TACTICAL CHARACTERISTICS**

**USE:** For use in the field to locate enemy transmitters.

**RANGE:** Medium

**TO COMMUNICATE WITH:**

**TO REPLACE IN PART:** None

**TRANSPORTATION:** Cargo Truck

**TYPE OF SIGNAL:**

**PART C - PRINCIPAL COMPONENTS**

**ITEM**

- Remote Control Unit
- Add-on Antenna
- Radio Receiver, BC-903
- Target Transmitter, BC-904
- Tower TR-19

**DIMENSIONS**

- **HEIGHT**
  - Remote Control Unit: 99"
  - Add-on Antenna: 25"
  - Tower TR-19: 8 1/2"

- **WIDTH**
  - Remote Control Unit: 20"
  - Add-on Antenna: 11"
  - Tower TR-19: 6"

- **DEPTH**
  - Remote Control Unit: 20"
  - Add-on Antenna: 6"
  - Tower TR-19: 6"

- **WEIGHT**
  - Remote Control Unit: 50 lbs
  - Add-on Antenna: 172 lbs
  - Tower TR-19: 21 1/2 lbs

- **CLASSIFICATION**
  - Remote Control Unit: 50 lbs
  - Add-on Antenna: 172 lbs
  - Tower TR-19: 21 1/2 lbs

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME OF COMPONENTS:**

**SHIP TONNAGE:**

---

**NOTE:** See individual sections for section classification.

**INSTRUCTIONAL LITERATURE:**

**TM 11-061**
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (Kc) 200 to 1,750 (in 3 bands)
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES:
ANTENNA: 8" Loop & Nondirectional Antenna with one or two remote control positions.
TUNING: (MO or XTAL) MO
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 24 to 28 volts DC (2.65 to 5 amperes) Storage battery in Aircraft.
SIMILAR SETS: SCR-214-8, SCR-280, SCR-273
POWER OUTPUTS (Watts): Receiver only.
TUBES (TYPE AND NUMBER): SCR-263-A uses 180-0.563-A
  1 - 6N7
  1 - 6N8
  1 - 6N7
  1 - 6N8

PART B - TACTICAL CHARACTERISTICS

USE: Provides visual, unidirectional, right-left indication of the direction of arrival of radio frequency energy with respect to the plane of the loop and simultaneous "on course" aural reception of modulated radio frequency energy. Aural reception of modulated radio frequency using a non-directive antenna, aural reception of modulated radio frequency using loop antenna, aural null indication of direction of arrival of modulated radio frequency using loop antenna.
RANGE: (MILES) TO COMMUNICATE WITH:
TO REPLACE IN PART:
TRANSPORTATION: Aircraft Installation.
TYPE OF SIGNAL: ON A NEW.

PART C - PRINCIPAL COMPONENTS

ITEM
80-0.563-A Radio Compass Unit
280-0.564-A Radio Control Box
LP-19-A Loop
I-65-O Compass Indicator
I-75 Indicator

DIMENSIONS
HEIGHT WIDTH DEPTH WEIGHT CLASSIFICATION
7 7/8 12 19 13/16 2.80
7 1/2 7 1/2 3 15/16 4.04
25 5/8 13 1/2 2 9 7.00
3 1/4 3 1/4 4 5/32 1.62
5 1/8 5 1/8 11 1/16 1.97

COMBINED WEIGHT OF COMPONENTS: 54.59
COMBINED VOLUME: 5327 cm^3
SHIP TONNAGE: 0.0025 T
### SCR-269

**Nomenclature Designation:** SCR-269

**Technical Characteristics:**
- **Frequency Range:** 200 to 1,750 Kg.
- **Number of Cylinders:** None
- **Predetermined Frequencies:**
- **Number of Tuning Elements (MD or XTA):** None
- **Power Source:** 220 volt battery, 12 volt battery
- **Similar Sets:** SCR-263 except automatic features
- **Power Outputs (Watts):** Receiver only
- **Tubes** (Type and Number): SCR-269-A uses:
  - 2 VT-66
  - 1 VT-96
  - 1 VT-12
  - 1 VT-10
  - 1 VT-67
  - 1 VT-109

**Tactical Characteristics:**
- **Usage:** Navigational instrument, provides automatic bearing indication of the direction of arrival of radio frequency energy and simultaneous visual reception of modulated radio frequency. Directional antenna, aural reception of modulated radio frequency using loop antenna. SCR-269-C has provision for reception of unmodulated R.F. in all the above cases.
- **Range:** Miles
- **To Communicate With:**
- **To Replace In Part:** SCR-262, 263, 260
- **Transportation:** Aircraft installation
- **Type of Signal:** CW, MDR, Voice

**Principal Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Compass Unit 80-433-A</td>
<td>7 7/8</td>
<td>12</td>
<td>19 5/16</td>
<td>14.67 lbs</td>
</tr>
<tr>
<td>2 Radio Control Box 80-433-A</td>
<td>7 1/2</td>
<td>7 1/2</td>
<td>3 15/16</td>
<td>3.76 lbs</td>
</tr>
<tr>
<td>Loop LP-21-A</td>
<td>25 3/8</td>
<td>14 31/32</td>
<td>9</td>
<td>10.37 lbs</td>
</tr>
<tr>
<td>Indicating L-61-A</td>
<td>3 1/4</td>
<td>3 1/4</td>
<td>3 11/16</td>
<td>.75 lbs</td>
</tr>
<tr>
<td>Indicating L-62-A</td>
<td>5 1/8</td>
<td>5 1/8</td>
<td>4 3/32</td>
<td>1.19 lbs</td>
</tr>
<tr>
<td>Relay BK-22-A on E</td>
<td>11 3/4</td>
<td>7</td>
<td>3</td>
<td>6.40 lbs</td>
</tr>
</tbody>
</table>

**Note:** Due to variations in aircraft installations, both weight and volumes of complete sets vary considerably. The figures shown are therefore approximate.

**Combined Weight of Components:** 75.10 lbs

**Combined Volume:** 1221 cu. in.

**Ship Tonnage:** 0.029 ft³

---

**Page 50**
**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (Kc) 150 to 1,500 covered in 5 bands.

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCY:**

**ANTENNA:** 8" Loop and fixed omnidirectional part. Rotative loop with two remote control positions.

**TUNING:** (MO or XTAL) NO

**SENSITIVITY:**

**SELECTIVITY:**

**POWER SOURCE:** 12 to 14 volts DC

**POWER SUPPLY:**

**SIMILAR SETS:** SCR-265 except SCR-273 uses 12 - 14 volts.

**OUTPUTS:** (Watts) Receives only.

**TUBES:** (Type and Number) SCR-273-A uses 1 BC-413-A.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Compass Unit BC-413-A</td>
<td>7 7/8</td>
<td>12</td>
<td>19 13/16</td>
<td>62.00</td>
</tr>
<tr>
<td>2 Radio Control Box BC-413-A</td>
<td>7 1/2</td>
<td>7 1/2</td>
<td>3 13/16</td>
<td>4.25</td>
</tr>
<tr>
<td>Loop LA-10-A</td>
<td>25 3/8</td>
<td>13 1/2</td>
<td>9</td>
<td>7.06</td>
</tr>
<tr>
<td>2 Compass Indicator I-65-C</td>
<td>3 1/4</td>
<td>1 1/6</td>
<td>3 29/32</td>
<td>1.75</td>
</tr>
<tr>
<td>Indicator I-75A</td>
<td>3 1/8</td>
<td>5 1/8</td>
<td>2 11/16</td>
<td>1.85</td>
</tr>
<tr>
<td>Relay BK-27-A</td>
<td>9</td>
<td>9</td>
<td>3</td>
<td>6.00</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 72.12 lbs

**COMBINED VOLUME:** 12" x 7.7/8" x 19 13/16"

**SHIP TONNAGE:** 0.005 T
**SCR-274-N**

**NOMENCLATURE DESIGNATION**

**NOTE SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION**

**PART A - TECHNICAL CHARACTERISTICS (CLASSIFICATION RESTRICTED)**

**FREQUENCY RANGE (MHz):**
- Trans.: 3.0-9.1
- Receiv.: 3.0-9.1

**NUMBER OF CRYSTALS:**
- 1 Calibration Crystal per Trans. for 3.0-9.1 MHz.

**PRESET FREQUENCIES:**
- 1 on each Trans.

**ANTENNA:**
- Long pole & Ant "inverted L" or "Y" type.

**TUNING:**
- (MD or XTAL) MD on H.F.

**SENSITIVITY:**
- Selectivity.

**POWER SOURCE:**
- 22 to 50 V, Power source ~CC Power from Airplane.

**SIMILAR SETS:**
- Superkids SCR-261, 263, 183.

**POWER OUTPUT:** (Watts) 10 CW, 20 Voices.

**TUBES (Type and Number):**
- 1 BC-455-A Modulator Units: 1 VT-135, 1 VT-136, 1 VT-143, 3 Sets for Reversing: 3 VT-151, 1 VT-152, 1 VT-153, 1 VT-154, 2 Sets for Trans.: 2 VT-135, 1 VT-136, 1 VT-157, 1 VT-158.

---

**PART B - TACTICAL CHARACTERISTICS (CLASSIFICATION RESTRICTED)**

**USES:**
- For intercommunication as a command set, plane-to-plane, plane-to-control tower.

**RANGE:**
- (Miles) 150 CW, 75 Voice (approx.)

**TRANSPORTATION:**
- Airborne Installation.

**TYPE OF SIGNAL:**
- Voice, CW, Modulated Modulation.

---

**PART C - PRINCIPAL COMPONENTS (CLASSIFICATION RESTRICTED)**

**ITEM**
- Remote BC-455-A
- Receiver BC-455-A
- Receiver Control Box: BC-455-A
- Receiver Control Box: BC-455-A
- Trans.: BC-455-A
- Modulator Unit: BC-455-A
- Antenna Relay Unit: BC-455-A

**DIMENSIONS**
- Height Width Depth
  - 7 1/2 x 4 1/2 x 4 1/2
  - 1 1/2 x 1 1/2 x 3/4
  - 7 1/2 x 3/4 x 4 1/2
  - 3/4 x 1/2 x 1/2
  - 7 1/4 x 3/4 x 4 1/2

**WEIGHT**
- 8.0 lb
- 7.0 lb
- 7.0 lb
- 2.0 lb
- 6.0 lb
- 4.0 lb

**CLASSIFICATION**
- Restricted
- Restricted
- Restricted
- Restricted
- Restricted
- Restricted

---

**WEIGHT FOR INSTALLATION OF 3 RECEIVERS AND 2 TURNS:**
- Complete.

**NOTE:**
- Due to variations in aircraft installations, both weights and volumes of sets vary considerably and the figures shown are therefore approximate.

---

**COMBINED WEIGHT OF COMPONENTS:**
- 24.0 lb

**COMBINED VOLUME OF COMPONENTS:**
- 4.7 cu ft

---

**SHIP TONNAGE:**
- Average Approx.
**SCR-276**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range (Kc):** 195 to 420
- **Number of Crystals:** None
- **Preset Frequencies:**
- **Antenna:** 8" Loop and unidirectional fixed antenna
- **Tuning:** (MD or XTAL) MD
- **Sensitivity:** Selectivity
- **Power Source:** 24 to 28 volts DC and DI-39-A.
- **Similar Sets:** SCR-266-A except SCR-276 24 - 28 volt supply.
- **Power Output:** (Watts)
- **Tubes:** (Type and Number) SCR-276-A uses 1 BC-383-A:
  - 2 - 6C5
  - 1 - 6X7
  - 4 - 677
  - 2 - 660
  - 2 - 6N6

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Navigational instrument. Provides visual, unidirectional right-left indication showing the direction of the radio signal source with respect to the aircraft heading. May also be used as a radio range or weather broadcast receiver providing aerial reception of modulated radio signals. Also supplies voltage to marker beacon receiver.
- **Range:** (Miles)
- **To Communicate With:**
- **To Replace in Part:**
- **Transportation:** Aircraft installation.
- **Type of Signal:** CW, NDF

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compass Indicator 175-A</td>
<td>3 1/4</td>
<td>3 1/4</td>
<td>3 17/32</td>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>Flexible conduit assembly &amp; Junction Box</td>
<td></td>
<td></td>
<td></td>
<td>9.62</td>
<td></td>
</tr>
<tr>
<td>Loop LP-17-A</td>
<td>25 9/16</td>
<td>11 3/32</td>
<td>9</td>
<td>6.22</td>
<td></td>
</tr>
<tr>
<td>Radio Compass Unit BC-383-A</td>
<td>8</td>
<td>8</td>
<td>15 5/8</td>
<td>26.1</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box BC-383-A</td>
<td>5 3/4</td>
<td>5 1/8</td>
<td>3 23/32</td>
<td>2.70</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Due to variations in aircraft installations, both weights and volumes of components vary considerably and the figures shown are therefore approximate.

**Combined Weight of Components:** 16.22

**Combined Volume:** 0" x 0" x 15 5/8"

**Ship Tonnage:** 3606.2

*This sheet is classified: UNCLASSIFIED*
### SCR-277

**Nomenclature Designation:** SCR-277

**Part A - Technical Characteristics**

- Frequency Range: (MHz) 0.2 - 0.4
- Number of Crystals: None
- Preset Frequencies: None
- Antenna: Crossed loops 70 feet high
- Tuning (MO or XTAL): MO
- Sensitivity: Selectivity
- Power Source: Power Unit PE-90 or 110V 50 - 60 cycles.
- Similar Sets: None
- Power Output (Watts): 800
- Tubes: (Type and Number)
  - 2 VT-100 (807)
  - 1 VT-151 (815)
  - 1 VT-145 (852)
  - 2 VT-141-A 866/866A
  - 2 VT-142-A F-476-A

**Part B - Tactical Characteristics**

- Range: At least 500 miles.
- To communicate with: Any 0.2 - 0.4 MHz receiver.
- To replace in part: None
- Transportation: Mobile in K-29 trailer.
- Type of signal: CW, MOW, Voice.

### Part C - Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Tuning Unit BC-469</td>
<td>35&quot;</td>
<td>21&quot;</td>
<td>16&quot;</td>
<td>11½#</td>
<td>Restricted</td>
</tr>
<tr>
<td>Sonometer Unit BC-466</td>
<td>44&quot;</td>
<td>22&quot;</td>
<td>29&quot;</td>
<td>23½#</td>
<td>Restricted</td>
</tr>
<tr>
<td>Mast WA -L-A</td>
<td>76&quot;</td>
<td>7&quot;</td>
<td>Dia.</td>
<td>250#</td>
<td>Restricted</td>
</tr>
<tr>
<td>Power Unit PE-90</td>
<td>51&quot;</td>
<td>56&quot;</td>
<td>35&quot;</td>
<td>1075#</td>
<td>Restricted</td>
</tr>
<tr>
<td>Radio Transmitter BC-467</td>
<td>43/4&quot;</td>
<td>54&quot;</td>
<td>22&quot;</td>
<td>555#</td>
<td>Restricted</td>
</tr>
<tr>
<td>Trailer K-29</td>
<td>200&quot;</td>
<td>76&quot;</td>
<td>106&quot;</td>
<td>3359#</td>
<td>Restricted</td>
</tr>
<tr>
<td>Radio Receiver BC-362</td>
<td>18&quot;</td>
<td>9&quot;</td>
<td>10&quot;</td>
<td>61#</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 7000#

**Combined Volume of Components:** 875 cu. ft.

**Ship Tonnage:** 3.5
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (Kc) 200 to 1,750 covered in 3 bands.
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES:
ANTENNA: B° LOOP AND FIXED NORMIREXTIONAL (MANUALLY OPERATED)
TUNING: (ND OR STL) NO
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 12 volts DC
SIMILAR SETS: SCR-265 WHICH OPERATES FROM 24 - 28 VOLT POWER SOURCE - SCR-273-A EXCEPT FREQUENCY.
POWER OUTPUTS (Watts) RECEIVED ONLY.
TUBES: (TYPE AND NUMBER) SCR-280-A USES:
1 - 6F6
6 - 6N7
1 - 6V7

PART B - TACTICAL CHARACTERISTICS

USE: PROVIDES VISUAL, UNIDIRECTIONAL, RIGHT-LEFT INDICATION, AURAL RECEPTION OF MODULATED RADIO FREQUENCY ENERGY USING LOOP ANTENNA.
AURAL RECEPTION OF MODULATED A.F. USING NORMIREXTIONAL ANTENNA, AURAL NULL UNIDIRECTIONAL INDICATIONS OF THE ARRIVAL OF MODULATED RADIO FREQUENCY ENERGY WITH RESPECT TO THE PLANE OF THE LOOP USING A LOOP ANTENNA.

RANGE (MILES)
TO COMMUNICATE WITH:
TO REPLACE IN PART:
TRANSPORTATION: AIRCRAFT INSTALLATION
TYPE OF SIGNAL: CW; NCW

PART C - PRINCIPAL COMPONENTS

ITEM
Radio Compass Unit BC-431-A
2-Radio Control Box BC-452-B
Loop LF-19-A
2-Compass Indicator I-65-D
Indicator 1-75

DIMENSIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Compass Unit  BC-431-A</td>
<td>7 7/8</td>
<td>12</td>
<td>19 15/16</td>
</tr>
<tr>
<td>2-Radio Control Box BC-452-B</td>
<td>7 1/2</td>
<td>7 1/2</td>
<td>5 15/16</td>
</tr>
<tr>
<td>Loop LF-19-A</td>
<td>25 3/8</td>
<td>15 1/2</td>
<td>9</td>
</tr>
<tr>
<td>2-Compass Indicator I-65-D</td>
<td>3 1/4</td>
<td>3 1/4</td>
<td>4 9/32</td>
</tr>
<tr>
<td>Indicator 1-75</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WEIGHT AND CLASSIFICATION

- Radio Compass Unit BC-431-A: 12.0 lb
- Loop LF-19-A: 8.0 lb (FA 120)
- 2-Compass Indicator I-65-D: 7.06 lb
- Indicator 1-75: 7.5 lb (FA 120)

COMBINED WEIGHT OF COMPONENTS: 71.82 lb
COMBINED VOLUME:
SHIP TONNAGE:

THIS SHEET IS CLASSIFIED: UNCLASSIFIED
**SCR-282**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range**: (kHz) 150 - 1,500 kHz
- **Number of Crystals**: None
- **Preset Frequencies**: None
- **Antenna**: Loop and Fixed Vertical Antenna
- **Tuning**: (MO or XTAL) MO
- **Sensitivity**: Selectivity
- **Power Source**: 24 - 28 volts DC, Aircraft Battery
- **Similar Sets**: SCR-242 which uses 12 volt power source
- **Power Output**: (Watts)

<table>
<thead>
<tr>
<th>TUNES</th>
<th>TYPE AND NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VT-66</td>
</tr>
<tr>
<td>4</td>
<td>VT-86</td>
</tr>
<tr>
<td>6</td>
<td>VT-87</td>
</tr>
<tr>
<td>1</td>
<td>VT-90</td>
</tr>
<tr>
<td>1</td>
<td>VT-95</td>
</tr>
<tr>
<td>2</td>
<td>VT-96</td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

- **Use**: To provide aural reception of modulated radio frequency energy or visual, uni-directional, right-left indication of the direction of arrival of radio frequency energy with respect to the plane of the loop and simultaneous for double aural reception of modulated radio frequency.
- **Range**: (Miles)
- **To Communicate With:**
- **To Replace in Part**: SCR-186
- **Transportation**: Aircraft Installation
- **Type of Signal**: CW & MO

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Compass Unit BC-310</td>
<td>7</td>
<td>12</td>
<td>20 1/2</td>
</tr>
<tr>
<td>Radio Control Box BC-311</td>
<td>7 1/2</td>
<td>7 1/2</td>
<td>3 15/16</td>
</tr>
<tr>
<td>Loop LP-38-C</td>
<td>7 1/2</td>
<td>7 1/2</td>
<td>3 15/16</td>
</tr>
<tr>
<td>Indicator 11-75-A</td>
<td>7 1/2</td>
<td>7 1/2</td>
<td>3 15/16</td>
</tr>
</tbody>
</table>

**Notes**: Due to variations in aircraft installations, both weights and volumes of complete sets vary considerably and the figures shown are therefore approximate.

**Combined Weight of Components**: 65# approx.

**Combined Volume**

**Ship Tonnage**

---

**Original from UNIVERSITY OF CALIFORNIA**
**SCR-283**

**PART A - TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Frequency Range: Receives 201-295 Kc, 1550-7200 Kc. Transmitting: 2900-7700 Kc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Crystals:</td>
<td>None</td>
</tr>
<tr>
<td>Preset Frequencies:</td>
<td>None</td>
</tr>
<tr>
<td>Antenna: Receive: 5 ft. vertical mast. Transmit: 11&quot; or 14&quot; type 16 to 18 ft. long. Tuning: (MD or XTAL) MD</td>
<td></td>
</tr>
<tr>
<td>Sensitivity:</td>
<td>Selectivity:</td>
</tr>
<tr>
<td>Power Source: 24 volt plane battery</td>
<td></td>
</tr>
<tr>
<td>Similar Sets: SCR-183 except 24 v.</td>
<td></td>
</tr>
<tr>
<td>Power Output: (Batt) voice 3.5; mod 3.2; cw 4.0.</td>
<td></td>
</tr>
<tr>
<td>Type and Number: SCR-283 when used with Transmitter SCR-282.</td>
<td></td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Use: Command set - plane-to-plane; plane-to-ground communications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range: (Miles)</td>
<td>30-65 miles plane-to-plane. 10-20 miles plane-to-ground.</td>
</tr>
<tr>
<td>To Communicate With:</td>
<td>Other equipment within range covering same frequencies.</td>
</tr>
<tr>
<td>To Replace In:</td>
<td>Part</td>
</tr>
<tr>
<td>Transportation:</td>
<td>Airborne</td>
</tr>
<tr>
<td>Type of Signal:</td>
<td>Tone, voice</td>
</tr>
</tbody>
</table>

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver, BC-129</td>
<td>7 5/8</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Radio Transmitter, BC-430</td>
<td>7 5/8</td>
<td>10.2</td>
<td></td>
</tr>
<tr>
<td>Dynamo, RD-95</td>
<td>4 5/8</td>
<td>9.9</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box BC-231</td>
<td>4 5/8</td>
<td>.9</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box BC-232</td>
<td>4 5/8</td>
<td>.9</td>
<td></td>
</tr>
<tr>
<td>Antenna Switch Relay BC-208</td>
<td>4 5/8</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>2 Receiver Coil Sets (One Is A Dual Coil)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Transmitter Coil Sets.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**

---

*This sheet is classified: UNCLASSIFIED*
SCR-284

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE (MHz) 3.8 to 5.8
NUMBER OF CRYSTALS: 1 IN CALIBRATOR
PRESET FREQUENCIES: NONE
ANTENNA: 15' FIVE SECTION FIBERPOLE TYPE FOR TANK USE, 25' EIGHT SECTION FIBERPOLE WHEN STATIONARY OR FOR FIELD USE, L TYPE WIRE
TUNING: NO OR XTAL) NO WITH XTAL CALIBRATOR.
SENSITIVITY: SELECTIVITY:
POWER SOURCE: HAND GENERATOR GM-65 or POWER UNIT PE-103 (12 VOLT) RECHARGE BY DRY BATTERIES OR POWER CONVERTER UNIT PE-104 (6 OR 12 V.)
SIMILAR SETS: SCR-288
POWER OUTPUT (BATTERY): HIGH POWER: CB-20; LOW POWER: CB-6; VOICE: 5
TUNERS (TYPE AND NUMBER) 1 BC-656-A TRANS & RECEIVER, RECHARGE 4 30507H, 1 1155 5 GT; 3 1-N 5 GT; 1 1-A 7 GT. TRANS: 4 505 5 GT; 2 307-A.

PART B - TACTICAL CHARACTERISTICS

USE: INFANTRY, FIELD ARTILLERY, SIGNAL CORPS, ON TANK OR IN VEHICLE. FOR COMMAND PURPOSES FROM DIV. HQ, DIO TO AND INCLUSIVE BATTALIONS, FOR COMMUNICATIONS WITH TANK DESTROYER UNITS.
RANGES (MILES) CB-50; VOICE-7.
TO COMMUNICATE WITH: SCR-151; SCR-161; SCR-163; SCR-267; SCR-268; SCR-269; SCR-270; SCR-294.
TO REPLACE IN PART: SCR-151; SCR-161; SCR-171; SCR-268.
TRANSPORTATION: TWO OR THREE MEN, OR IN VEHICLE.
TYPE OF SIGNAL: CB; VOICE.

PART C - PRINCIPAL COMPONENTS

ITEM (CLASSIFICATION) DIMENSIONS WEIGHT CLASSIFICATION

RECV. & TRANS. BC-656 1 1/2" 18" 9 3/4" 240 UNCLASSIFIED
GENERATOR GM-65 9 6 1/2" 6 3/4" 220 UNCLASSIFIED
POWER UNIT PE-103 12 3/4" 16 1/2" 5 1/2" 550 UNCLASSIFIED
REMOTE CONTROL UNIT RM-29 6 1/2" 10 1/8" 8 1/2" 150 UNCLASSIFIED

COMBINED WEIGHT OF COMPONENTS: 250#

SHIP TONNAGE:
SCR-287

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 1.5 - 18 Mc/s
TRANSMIT: 1.5 - 12.5 Mc/s, 260-500 Khz, 650-1500 Khz
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: Trapeze Wire Antenna
TUNING: (MO OR XTAL) MO
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 24 Volts, DC and PE 73
SIMILAR SETS: SCR-187 except 12 V.
POWER OUTPUTS (Watts) 60 @ 12 Ma, 30 @ 1.5 Ma/kg
TUBES: (Type and Number) SCR-287-A Uses:
TRANS. 4 VT-99-C 2 New:
1 VT-69
1 VT-67
1 VT-70
1 VT-66
1 VT-91
1 VT-95

PART B - TACTICAL CHARACTERISTICS

USE: Airborne Liaison Set, Air-To-Air, Air-To-Ground Communication
RANGE (MILES) 50 to several hundred miles
TO COMMUNICATE WITH: SCR-188, SCR-193, SCR-197, and SCR-289.
TO REPLACE IN PART:
TRANSPORTATION: Installed in Aircraft
TYPE OF SIGNAL: CW, MO, VOICE

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver BO-365-C</td>
<td>18 10 1/2 9 1/2</td>
<td>35.2</td>
<td></td>
</tr>
<tr>
<td>Radio Transmitter BO-375-C</td>
<td>21 21/32 23 1/8 9 5/16</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Antenna Tuning Unit BO-306-A</td>
<td>17 3/4 9 1/2 9 1/2</td>
<td>9.75</td>
<td></td>
</tr>
<tr>
<td>Dynamotor Unit PE-73-B</td>
<td>11 11</td>
<td>11</td>
<td>39</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-5-A</td>
<td>7 5/8 16 3/4 8 3/4</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-6-A</td>
<td>7 5/8 16 3/4 8 3/4</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-7-A</td>
<td>7 5/8 16 3/4 8 3/4</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-9-A</td>
<td>7 5/8 16 3/4 8 3/4</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-10-A</td>
<td>7 5/8 16 3/4 8 3/4</td>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Due to variations in aircraft installations, both weights and volumes of complete sets vary considerably and the figures shown are therefore approximate.

COMBINED WEIGHT OF COMPONENTS: 2908 approx.
COMBINED VOLUME: 6 quarts approx.
SHIP TONNAGE:
**SCR-288**

**PART A - TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range: Trans.</td>
<td>2.5 - 6.5 MHz</td>
</tr>
<tr>
<td>Recvr.</td>
<td>2.5 - 6.5 MHz</td>
</tr>
<tr>
<td>Number of Crystals:</td>
<td></td>
</tr>
<tr>
<td>Preset Frequencies:</td>
<td></td>
</tr>
<tr>
<td>Antenna:</td>
<td>35 ft straight insulated wire with counterpoise</td>
</tr>
<tr>
<td>Tuning: (MO or XTAL)</td>
<td>MD</td>
</tr>
<tr>
<td>Sensitivity:</td>
<td>Selectivity:</td>
</tr>
<tr>
<td>Power Source: Trans.</td>
<td>Generator OH-11L</td>
</tr>
<tr>
<td>Recvr.</td>
<td>Generator OH-11L or dry batteries</td>
</tr>
<tr>
<td>Similar Sets: SCR-288A</td>
<td></td>
</tr>
<tr>
<td>Power Output: (Watts)</td>
<td>65% modulation on Voice and CW</td>
</tr>
<tr>
<td>Tubes: (Type and Number) SCR-288 Uses:</td>
<td>3 VT-107</td>
</tr>
<tr>
<td>1 VT-149</td>
<td></td>
</tr>
</tbody>
</table>
| Part B - TACTICAL CHARACTERISTICS**

| USE: | INF B, Rest. En. |
| SIT CO Co. |
| Range: (Miles) Stationary: 30 using CW; 15 using Voice |
| To Communicate With: SCR-131; SCR-161; SCR-193 |
| SCR-238; SCR-245 |
| To Replace In Part: SCR-131; 161; 171 |
| Transportation: 2 man load |
| Type of Signal: CW; Voice |

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Trans. &amp; Recvr. BO-474</td>
<td>18&quot; x 9 1/2&quot; x 7 1/2&quot;</td>
<td>64 lbs</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 64 lbs

**COMBINED VOLUME:**

**SHIP TONNAGE:**
**SCR-293**

**Part A - Technical Characteristics**
- **Frequency Range:** (MHz) 20.0 - 27.9
- **Number of Crystals:** 5 in Reg. 5 in Trans.
- **Preset Frequencies:** 5
- **Antenna:** 9' Fishpole AN-15A; A type to be mounted on turret (with 2' extension for lower freq.).
- **Tuning:** (No or Xtal) Xtal
- **Sensitivity:** Selectivity
- **Power Source:** 12 or 24 V - Vehicular Battery.
- **Similar Sets:** SCR-506
- **Power Output:** (Watts) High Power: 25 Watts, Low Power: 1/2 Watt
- **Tubes (Type and Number):** SCR-295-A
  - L. B47T
  - L. 12K6
  - 7 12Ax7
  - 2 12At7
  - 1 16A3
  - 2 12At8

**Part B - Tactical Characteristics**
- **Use:** AF; IN TANK Units up to Bns.
- **Range:** (Miles) 5 Moving; 7 Stationary.
- **To Communicate With:** SCR-293; SCR-295; SCR-506; SCR-509; SCR-510; SCR-550; SCR-552.
- **To Replace:** SCR-195; SCR-245.
- **Transportation:** Tank
- **Type of Signal:** Voice (FM)

**Part C - Principal Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lm Trans., Reg. Type: 25 UFX, and Separate Reg. Type: 11 Trk. Radio Reg. &amp; Trans.</td>
<td>12&quot; x 14&quot; x 5&quot;</td>
<td>115#</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>600 Reg. &amp; 600-499.</td>
<td>To be placed in left sponsor of light tank (2.0 cu. ft.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**

*This Sheet is Classified: UNCLASSIFIED*
### PART A - TECHNICAL CHARACTERISTICS

- **Classification:** Class-4

- **Frequency Range:** (MC) 20.0 - 27.9 (Receiver Only)
- **Number of Crystals:** 5 (Receiver)
- **Preset Frequencies:** 5
- **Antenna:** 9' Fishpole (AHJ-2-1)
- **Tuning:** (NO OR XTAL)
- **Sensitivity:**
- **Selectivity:**
- **Power Source:** 12 or 24 V Car Battery.
- **Similar Sets:** SCR-536
- **Power Outputs:** (Watts)

### TUBES (Type and Number)

- SCR-294-A: 1 x 12AX7, 1 x 12AD6, 1 x 12AU7, 1 x 12AF7
- SCR-394-A: 2 x 12AX7, 2 x 12AD6

### PART B - TACTICAL CHARACTERISTICS

- **Classification:** Class-4

- **Use:** AFs in Tanks and Vehicles.
- **Range:** (Miles)
- **To Communicate With:** SCR-293; SCR-308; SCR-509; SCR-510; SCR-525
- **To Replace in Part:** SCR-210
- **Transportation:** Tanks and Vehicles.
- **Type of Signal:** FM Receiver.

### PART C - PRINCIPAL COMPONENTS

- **Classification:** Class-4

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver, 80-L99</td>
<td>1/4&quot; x 1 1/2&quot; x 3/4&quot;</td>
<td>560</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

### Combined Weight of Components:

- **Weight:** 560

### Combined Volume:

- **Volume:** 0.6 cubic feet

### Ship Tonnage:

- **Tonnage:** 63
### SCR-298

**Nominal Designation:**

**Nomenclature:**

**Status:**

- **Change in Status:**
- **Status:**

**Part A - Technical Characteristics**

- **Frequency Range:** (MHz) 30 - 60
- **Number of Cystals:** 1
- **Preset Frequencies:** 1 (no selection)
- **Antenna:** whip
- **Tuning:** (no or xtal) xtal
- **Sensitivity:** selective
- **Power Source:** 6 V vehicle battery
- **Similar Sets:** SCR-293
- **Power Outputs:** (batteries) 25
- **Tubes:** (type and number) Early model users:
  - 1 Early Line 11 uf model, Red. 2 66; 1 608
  - 2 667/1050; 2 667; 2 667; 1 668; 1 669
  - 2 Early Line 25 uf model, Trans. - 1 667;
  - 1 Early Line 705; 1 807

**Note:** Information available states SCR-298 late model uses 1 330 uf (Ed 2 or 3); 1 11 uf (Ed 3).

**Part B - Tactical Characteristics**

- **Use:** Used by tank personnel
- **Range:** (miles) Stationary - 10; Moving - 7
- **To Communicate With:** SCR-608; SCR-609; SCR-610; SCR-620; SCR-620; SCR-620
- **To Replace in Part:** Transportation: Vehicle
- **Type of Signal:** Voice (FM)

**Part C - Principal Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans. 25 uf</td>
<td>9&quot; x 17&quot;</td>
<td>8 1/2&quot;</td>
<td>29 #</td>
</tr>
<tr>
<td>Reg. 11 uf</td>
<td>9&quot; x 13&quot;</td>
<td>7 1/2&quot;</td>
<td>17 1/2#</td>
</tr>
<tr>
<td>Power Unit VPA-5A</td>
<td>8 1/2&quot; x 4 1/2&quot;</td>
<td>5&quot;</td>
<td>7 1/2#</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**

---

**Typical UHF Mobile Installation**

Note: All control cables are shielded and shields are grounded at transmitter and receiver, shields should not be touched to body of car at any other place.

**Engineer's Drawing of SCR-298 Components, Showing Interconnections,
**SCR-300**

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE**: (MHz) 4.0 - 8.0
- **NUMBER OF CRYSTALS**: 2
- **PRESET FREQUENCIES**: None
- **ANTENNA**: Firepole type
- **TUNING**: (NO OR XTAL) NO
- **SENSITIVITY**: SELECTIVITY
- **POWER SOURCE**: Light or heavy duty (for longer operational hours) Plug-in type dry cell battery containing the voltages for all tube elements in one unit.
- **SIMILAR SETS**: SCR-195
- **POWER OUTPUT**: (Watts) Approximately 1
- **TUBES**:
  - 1 - 1-T-43
  - 2 - 1-A-4
  - 3 - 1-A-4
  - 4 - 1-A-4

**PART B - TACTICAL CHARACTERISTICS**

- **USE**: Infantry, Field Artillery, Coast Artillery, Advanced Field Artillery, Coast Artillery and Infantry Units
- **RANGE**: (Miles) 3 to 5
- **TO COMMUNICATE WITH**: SCR-500 only
- **TO REPLACE IN PARTS**: SCR-195 and SCR-195
- **TRANSPORTATION**: Man-Pack
- **TYPE OF SIGNAL**: FM - Voice

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver and Transmitter BC-1000</td>
<td>15&quot;</td>
<td>10&quot;</td>
<td>6&quot;</td>
<td>17#</td>
<td></td>
</tr>
<tr>
<td>BATTERY BA-70</td>
<td></td>
<td></td>
<td></td>
<td>15#</td>
<td></td>
</tr>
<tr>
<td>BATTERY BA-60</td>
<td></td>
<td></td>
<td></td>
<td>10#</td>
<td></td>
</tr>
<tr>
<td>ANTENNA AN-150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTENNA AN-151</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 1200
**COMBINED VOLUME OF COMPONENTS**: 1200

**SHIP Tonnage**: 0

---

**THIS SHEET IS CLASSIFIED**: UNCLASSIFIED
### PART A - TECHNICAL CHARACTERISTICS

**Frequency Range:**
- **Trans:** 2.0 - 18.0
- **Recvr:** 1.5 - 18.0

**Number of Crystals:** 36

**preset Frequencies:** 3

**Antenna:** Whip or lone wire

**Tuning:** (MO or Xtal) Both

**Sensitivity:**

**Power Source:** A.C. 110 volts, 60 cycle, single phase; Power Unit PE-95.

**Similar Sets:** SCR-299-A, B, C, D

**Power Output:** (Watts) 100 CW, 500 Voice (2-8 mA) 300 CW, 250 Voice (12-18 mA) 275 CW, 200 Voice (12-18 mA)

**Tubes:** (Type and Number) 1 BC-612, 2 6L6, 4 6AG7, 1 6Bq, 1 6X7, 2 606B, 2 647, 2 6AS7, 2 6V6, 2 6L6, 1 6L8, 1 6L9, 1 6B6, 1 6B8, 2 6A9, 2 6V7, 2 6BS

**Total Weight:** 254.3 lbs

### PART B - TACTICAL CHARACTERISTICS

**Use:**
- **Sin C:** AG, AF, FA, FQ, INF

**Range:** (miles) 250 CW; 100 Voice


**To Replace in Part:** SCR-197, SCR-299

**Transportation:** Power Unit PE-95 in 1 ton trailer. Shelter HD-17 with components installed mounts on 2 1/2 ton, 6x6 cargo truck.

**Type of Signal:** CW, Voice (AM)

### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans. BC-610</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receivers BC-312 &amp; BC-312</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speech Amplifier BC-611-E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antenna Tuning Unit BC-939</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trailer K-52 (Power Unit) Includes Power Unit PE-95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junction Box J8-70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shelter HD-17</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**
**SCR-499**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** (Mo) Trans. 2.0 - 18.0, Recev. 1.5 - 15.0
- **Number of Crystals:** 96
- **Preset Frequencies:** 5
- **Antennas:** Whip or long wire
- **Tuning:** (Mo or XTL) Both
- **Sensitivity:** Selectivity
- **Power Source:** AC 110 volts, 60 cycles, single phase or PE-95
- **Similar Sets:** SCR-177-8, SCR-169-4, SCR-599 without shelter HD-17 and without 1-ton 200 trailer
- **Power Output:** (Watts) 400 CW, 100 Voice (2-800); 300 CW, 250 Voice (5-1200); 225 CW, 200 Voice (15-18 mV)
- **Tubes:** Type and number: 1 BD-312, 2 502, 1 6B9, 4 6N7, 1 447, 1 BC-347, 2 602, 1 6B9, 4 6N7, 1 447, 1 6A7, 1 BC-347, 1 6B9, 1 6A7, 1 BC-347, 1 6N7, 1 447, 1 6A7, 1 BC-347, 1 6N7, 1 447, 1 6A7
- **Type of Signals:** CW, Voice (AM)

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** SDA C, AC, AF, FA, CAV, INF. Components installed in tennicles
- **Range:** (Miles) 250 CW; 100 Voice
- **To Communicate With:** SCR-177; SCR-183; SCR-187; SCR-195; SCR-263; SCR-269; SCR-271; SCR-251; SCR-265; SCR-267; SCR-261; SCR-256; SCR-351; SCR-355; SCR-503
- **To Replace In Part:** SCR-299

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans., BD-610</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receiver, BD-312, BD-342</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speech Amplifier BD-614-E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ant. Tuning Unit BD-939</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junction Box JB-70</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components**

**Combined Volume of Components**

**Ship Tonnage**

---

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION

**STATUS:**

**STANDARD:**

**INSTRUCTIONAL LITERATURE:**

**TM 11-281**
**SCR-504**

**HOMENOMA TRACHTER CARACTERISTICS**

<table>
<thead>
<tr>
<th>Frequency Range (MHz)</th>
<th>0.1 - 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Crystals</td>
<td>None</td>
</tr>
<tr>
<td>Preset Frequencies</td>
<td>None</td>
</tr>
<tr>
<td>Antenna</td>
<td>Loop</td>
</tr>
<tr>
<td>Tuning (MD or XTAL)</td>
<td>Does not apply</td>
</tr>
<tr>
<td>Sensitivity (µV/meter)</td>
<td>50 - 200</td>
</tr>
<tr>
<td>Selectivity</td>
<td></td>
</tr>
<tr>
<td>Power Source</td>
<td>Miniature Storage Battery (8A-51, 88-52)</td>
</tr>
<tr>
<td>Similar Sets</td>
<td>None</td>
</tr>
<tr>
<td>Power Outputs (Watts)</td>
<td></td>
</tr>
<tr>
<td>Tubes (Type and Number)</td>
<td>1 71B, 1 VT-177, 1 VT-178, 5 VT-175</td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Use: This equipment is intended to be used for intelligence purposes, particularly for the specific location of unauthorized transmitters.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range: Short</td>
</tr>
<tr>
<td>To Communicate With: Does not apply.</td>
</tr>
<tr>
<td>To Replace in Part:</td>
</tr>
<tr>
<td>Transportation: Portable</td>
</tr>
<tr>
<td>Type of Signal: Does not apply.</td>
</tr>
</tbody>
</table>

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver BC-792</td>
<td>6&quot; x 12&quot; x 15&quot;</td>
<td>25#</td>
<td></td>
</tr>
<tr>
<td>Battery Charger PE-128</td>
<td>9 3/8&quot; x 12&quot; x 8&quot;</td>
<td>16#</td>
<td></td>
</tr>
<tr>
<td>Headset HS-34L</td>
<td>----</td>
<td>1 oz</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 55#

**Combined Volume of Components:**

**Ship Tonnage:**
SCR-506

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION:

FREQUENCY RANGE: (MD) Trans. 2-4.5; Revals 2-6
NUMBER OF CRYSTALS: 1 (XTAL CALIBRATED)
PRESET FREQUENCIES: 4
ANTENNA: 15' FISHPOLE TO BE USED WHILE MOVING WITH 10' EXTENSION TO BE USED WHILE AT HALT.
TUNING: (MD or XTAL) MD
SENSITIVITY: SELECTIVITY:
POWER SOURCE: VEHICLE POWER SYSTEM 12 or 24 V.
INPUT:
SIMILAR SETS:
POWER OUTPUT: (WATTS) 100 W; 25 WATT VOICE

TUBES: (TYPE AND NUMBER) SCR-506 USES: 1-BC-6524-A1; 2-6 BC 71; 2-12 SM 71; 2-12 K 6; 1-12 DA 71;
1-12 C 61; 1-6 R 61; 1-6 Y 61; 1-12 AA 71;
1-6071-A1; 1-6071; 2-6141; 2-1613; 2-VM-105-30.
NOTE: 506-A also lists: 18 TUBES, ALSO IDENTICAL WITH SCR-506 SHOWN ABOVE.

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION:

USE: TO ARM FJ CAV; EMERG; FA; SIR G; USED IN LIGHT TANK M-5 & OTHER ARMORED VEHICLES.

RANGE: (MILES) 70 CW; 25 VOICE.

TO COMMUNICATE WITH: SCR-151; SCR-171; SCR-151M;
SCR-171; SCR-205; SCR-205G; SCR-210; SCR-210G;
SCR-265; SCR-265G; SCR-265M.

TO REPLACE IN PART: SCR-151M-AF

TRANSPORTATION (AND DEPLOYMENT) IN VEHICLE IN WHICH SET IS INSTALLED.

TYPE OF SIGNALS: CW; VOICE (AM)

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION RESTRICTED

ITEM

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANS. BC-652</td>
<td>15 15/16&quot; x 33 1/8&quot; x 14 1/4&quot;</td>
<td>1744</td>
</tr>
<tr>
<td>REVAL. BC-652</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP TONNAGE:
**SCR-508**

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** 20.0 to 27.9 MHz
- **Number of crystals:** 80
- **Preset Frequencies:** 10 (push button selection)
- **Antenna:** 9 ft. Fishpole
- **Tuning:** (MD or XTAL) XTAL
- **Sensitivity:** Selectivity
- **Power Source:** 12 or 24 volt battery
- **Similar Sets:** SCR-606 except frequency
- **Power Output:** (Watts) 25, 100% modulation
- **Tubes:** (Type and number) BC-605-C Receiver 1 Tube Type 4-H 6J 6; 1 Tube Type 1-J 5; 1 Tube Type 6-V-6 GT; 5 Tubes Type 6-A-C 7; 2 Tubes Type 12-80-7; 2 Tubes Type 6-8L 7-8T. BC-605-C Transmitter 7 Type 1619 Tubes; 1 Type 1604 Tunnel.

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Armored Force, Field Artillery, installation in command tanks and vehicles of AF, G/L, Corps and Divisions where it is necessary to monitor 2 frequencies simultaneously.
- **Range:** (Miles) 7 in motion.
- **To Replace In Part:** SCR-193, SCR-215, SCR-295.
- **Transportation:** Vehicle.
- **Type of Signal:** Voice; FM.

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter BC-605</td>
<td></td>
<td>67#</td>
</tr>
<tr>
<td>Receiver (2) BC-603</td>
<td></td>
<td>70# (55# ea)</td>
</tr>
<tr>
<td>Mounting Base FT-237</td>
<td></td>
<td>4#</td>
</tr>
<tr>
<td>Vehicle Antenna</td>
<td></td>
<td>---</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 181#
**Combined Volume of Components:**

**Ship Tonnage:**

---

**Page 72**

---

**Direction:**

---

**Instructor Literature:**

---

**TM 11-600**
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MO) 20.0 - 21.9
NUMBER OF CRYSTALS: 50
PRESET FREQUENCIES: 2
ANTENNA: 8 FT. PINNACLE (ANT. AN-45)
TUNING: (MO OR XTAL) XTAL
SENSITIVITY: 
SELECTIVITY:
POWER SOURCE: DRY BATTERIES BA-39; BA-40; BA-41
SIMILAR SETS: SCR-510
POWER OUTPUT: (Watts) 1.8 100% MODULATION.
TUBES: (TYPE AND NUMBER) SCR-509-A USER:
1 BC-280-4 A = 4; 1 LM5; 1 1L66; 1 12AR; 1 12BH3; 2 12TA1.

PART B - TACTICAL CHARACTERISTICS

USE:
ARMY FORCES: Mech Bn; Armored Regt; Inf Regt;
SHORT RANGE RECONNAISSANCE AND SIMILAR MISSIONS.

RANGE: (Miles) 5 on ground.
TO COMMUNICATE WITH: SCR-291; SCR-294; SCR-508;
SCR-509; SCR-510; SCR-520; SCR-538.
TO REPLACE IN PART: SCR-195 within the Armored Force.
TRANSPORTATION: MAN ON FOOT OR IN ANY VEHICLE.
TYPE OF SIGNAL: VOICE; (FM)

PART C - PRINCIPAL COMPONENTS

ITEM (CLASSIFICATION: )

DIMENSIONS

WEIGHT

CLASSIFICATION

This sheet is classified: UNCLASSIFIED
### SCR-510

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

- FREQUENCY RANGE: (MHz) 20.0 - 27.9
- NUMBER OF CRYSTALS: 80
- PRESET FREQUENCIES: 2
- TRANSMITTER POWER: Dry batteries or vibrator power for operation from 6 or 12 V vehicular battery.
- SIMILAR SETS: SCR-509 which uses dry batteries only.
- POWER OUTPUT (Watts): 1.8 (100% modulation).
- TUBES: (Type and Number) SCR-510-A uses: 1 x 8052-A, 1 x 199; 1 x 1229; 1 x 1296; 1 x 1291; 1 x PE-97-A, 1 x VR9-50; 1 x 2510A.

**PART B - TACTICAL CHARACTERISTICS**

- USE: Falls Armd Btry; Meds Co Bn Armd; Sigs Co
  - Armd F; Td Bn. Used by forward observers for liaison purposes.
- RANGE: (Miles) 5 in motion.
- TRANSPORTATION: Transports equipment in vehicle or carried by man on foot.
- TYPE OF SIGNAL: Voice (FM)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rect. &amp; Trans. BC-630; Plate Supply Unit PE-97</td>
<td>Width</td>
<td>Height</td>
<td>Depth</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 650

**COMBINED VOLUME:** 1.3 cu ft

**SHIP Tonnage:**

**STATUS:**

- **TM 11-605**
- **15 Jan. 41**
- **CHANGE IN STATUS:**

This sheet is classified: **UNCLASSIFIED**

---

*Radio Set SCR-510 is the same as Radio Set SCR-509 except for the addition of vehicular components. Short range frequency modulated vehicular or ground radio set. May also be used as short range mobile command set.*
**SCR-522**

**NOMENCLATURE DESIGNATION**

***PART A - TECHNICAL CHARACTERISTICS***

*(CLASSIFICATION: RESTRICTED)*

- **FREQUENCY RANGE**: (M0) 100 - 156 Mc
- **NUMBER OF CRYSTALS**: 8 (3 Traps, 4 Recev.)
- **PRESET FREQUENCY**: 4 preset channels both Recev. & Trans.
- **TUNING**: (MO or XTAL) Crystal Tuning
- **SENSITIVITY**: Selectivity
- **POWER SOURCE**: 28 volts, Primary Source and PE-94
- **SIMILAR SETS**: Radio Set SCR-522-12 Volt Version of SCR-522
- **POWER OUTPUT**: Batt. 6 watts voice.
- **TUBES**: (Type and Number) SCR-522-A users:
  - 1 - 12AT7
  - 2 - 12BA9
  - 1 - 12AT7
  - 1 - 6066
  - 2 - 6287

***PART B - TACTICAL CHARACTERISTICS***

*(CLASSIFICATION: RESTRICTED)*

- **USE**: Air Corps - used in all types of aircraft, for: Air-To-Air; Air-To-Ground Communication.
- **RANGE**: (Miles) 150 at 10,000 feet. (Line of Sight).
- **TO COMMUNICATE WITH**: Other airplanes equipped with SCR-522 or SCR-522-1, or equivalent VHF Command Equipment, also Ground Installations having sufficient VHF ground facilities.
- **TO REPLACE IN PART**: SCR-274-A and SCR-283-A.
- **TRANSPORTATION**: Airborne installation.
- **TYPE OF SIGNAL**: Voice and special tone signal when used with contactor equipment RC-95.

***PART C - PRINCIPAL COMPONENTS***

*(CLASSIFICATION: RESTRICTED)*

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case CS-50 contains:</td>
<td>16 5/32&quot; x 12 9/16&quot; x 10 11/16&quot;</td>
<td>49.8 lbs</td>
<td></td>
</tr>
<tr>
<td>Radio Transmitter BC-625</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Receiver BC-624</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rack FY-554</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamotor PE-94</td>
<td>12 25/64&quot; x 8 27/64&quot; x 6 15/64&quot;</td>
<td>37 lbs</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box BC-602</td>
<td>5 7/8&quot; x 5 9/16&quot; x 2 1/2&quot;</td>
<td>2.8 lbs</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 71.6 lbs approx.

**COMBINED VOLUME**: 1.0 cu. ft. approx.

**SHIP TONNAGE**: 

---

*THIS SHEET IS CLASSIFIED: RESTRICTED*
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGES: (MHz) 20.0 to 27.9
NUMBER OF CRYSTALS: 80
PRESET FREQUENCIES: 10
ANTENNA: 9 FOOT PIQUETE
TUNING (MO or XTAL): XTAL
SENSITIVITY: 18
SELECTIVITY: 24
POWER SOURCE: 12V (XTAL) 0.25 W (RECOVR.) 3.5V
24V (XTAL) 0.25 W (RECOVR.) 3.5V
SIMILAR SETS: Same as SCR-508 minus one radio receiver BC-605.
POWER OUTPUT: (Watts) 25 at 100% MODULATION
TUBES (TYPE and NUMBER): SCR-528 USES:
1-BC-604-C RECOVR.; 1-6AC7; 1-6D15; 1-6460; 2-6467; 1-6467/1852; 1-6174 GT; 1-6176 RECOVR.; 1-6460-C TRANS.
1-6179; 1-6180.
(TUBE CONTENTS MAY VARY IN DIFFERENT MODELS, MODEL 528-C IS CITED TO SHOW TUBE CONTENT AS BEING FROM TYPICALLY

PART B - TACTICAL CHARACTERISTICS

USE: CAV; SHER; FA; MDC DEPT; NBC; ARM; A.
INTERMEDIATE COMMAND FOCUS & VEHICLES OF ARMORED FORCES, GMC, CORPS AND DIVISION.

RANGE: 7 MILES WHILE IN MOTION

TO COMMUNICATE WITH: SCR-293, SCR-296, SCR-508, SCR-509, SCR-510, SCR-528, SCR-528.

TO REPLACE IN PART: SCR-293; SCR-295 IN ARMORED FORCES.

TRANSPORTATION AND OPERATION IN VEHICLES.

TYPE OF SIGNAL: Voice (FM)

PART C - PRINCIPAL COMPONENTS

ITEM

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSMITTER BC-604 (INTERNAL INTERPHONE)</td>
<td>1 1/4&quot;</td>
<td>1 1/2&quot;</td>
<td>3/4&quot;</td>
<td>875</td>
<td></td>
</tr>
<tr>
<td>RECEIVER BC-604</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MOUNTING FT-257</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP TONNAGE:
SCR-536

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 3.5 TO 6.0
NUMBER OF CRYSTALS: One transmitting and one receiving crystal required per channel.
PRESET FREQUENCIES: One preset channel provided.
ANTENNA: #1 whip antenna - teletypewriter into set box. Receiver is turned on when antenna is extended.
TUNING: (No on XTAL) Crystal.
SENSITIVITY: Selectivity:
POWER SOURCE: Self contained dry batteries.
SIMILAR SETS: None
POWER OUTPUT: (Watts) .027

TUBES: (Type and Number) 1 BC-611-B Transmitter.
Tubes: 1, 1 R5 Tube; 1, 1 S5 Tube; 1, 1 T4 Tube; 2, 3 3L Tube.

PART B - TACTICAL CHARACTERISTICS

USE: Used by parachute troops, airborne troops, and anti-tank units of the infantry for short range communication.

RANGE: (Miles) 1 1/2

TO COMMUNICATE WITH: SCR-187; SCR-188; SCR-193; SCR-261; SCR-271; SCR-283; SCR-287; SCR-288.

TO REPLACE IN PART: None.

TRANSPORTATION: Man Pack

TYPE OF SIGNAL: Voice only. (AM)

PART C - PRINCIPAL COMPONENTS

ITEM

HEIGH | WIDTH | DEPT | WEIGHT | CLASSIFICATION
--- | --- | --- | --- | ---
Receiver and Transmitter BC-611 | 15 3/4" | 5 3/6" | 3 3/4" | 5.5 lbs

COMBINED WEIGHT OF COMPONENTS: 6 lbs

COMBINED VOLUME OF COMPONENTS: 140 cu.in.

SHIP Tonnage: 8 #

THIS SHEET IS CLASSIFIED: UNCLASSIFIED

RADIO SET SCR-536

RADIO SET SCR-536 IS A VERY COMPACT RECEIVER - TRANSMITTER RESEMBLING AN OVERSIZE TELEPHONE HAND SET. COMPLETE WITH BATTERIES, ANTENNA, TRANSMITTER, RECEIVER, AND HAND SET IN ONE CASE.

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THIS SHEET IS CLASSIFIED: UNCLASSIFIED
(Very High Frequency Airborne Command Set)

**SCR-542**

**Nomenclature Designation**

**Part A - Technical Characteristics**

- **Frequency Range:** (MHz) 100 - 156 MHz.
- **Number of Crystals:** 8 (4 Transmitters - 4 Receivers).
- **Preset Frequencies:** 16 on-screen, both receivers and transmitters.
- **Antenna:** VHF, VHF-
- **Tuning:** 1/4 or XTAL tuning.
- **Sensitivity:** Selectivity.
- **Power Source:** 12 volt primary source and PE-96.
- **Similar Sets:** SCR-522 (except voltages).
- **Power Output:** 6 watts voice.
- **Tubes (Type and Number):** SCR-522-A uses:
  - 1 - 12AT7
  - 1 - 12AF7
  - 1 - 9002
  - 1 - 9003
  - 1 - 12AV7
  - 2 - 6887

**Part B - Tactical Characteristics**

- **Use:** Air Corp - Used in all types of aircraft. For VHF, air-to-air, air-to-ground communication.
- **Range:** (Miles) 130 at 1000 ft. (Line of Sight).
- **To Communicate With:** Other Airplanes equipped with SCR-522 or SCR-542, or equivalent VHF Command equipment, also ground installations having sufficient VHF ground facilities.
- **To Replace In Part:**
- **Transportation:** Airborne installation.
- **Type of Signal:** Voice and special tone signal when used with contactor equipment RC-96.

**Principal Components of Radio Set SCR-542**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case CS-80</td>
<td>16 5/32&quot;</td>
<td>10 11/16&quot;</td>
<td>4/16&quot;</td>
</tr>
<tr>
<td>Radio Transmitter BC-625</td>
<td>12 9/16&quot;</td>
<td>6 15/16&quot;</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>Radio Receiver BC-624</td>
<td>8 7/16&quot;</td>
<td>2 1/2&quot;</td>
<td>2 1/4&quot;</td>
</tr>
<tr>
<td>Rock FY-332</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamo PE-96</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Control Box BC-602</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 91 lb approximately

**Combined Volume of Components:** 1.8 cu ft approximate

**Ship Tonnage:**

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This Sheet is Classified: Restricted
## SCR-543

### Part A - Technical Characteristics

- **Frequency Range:** (Mo) 1.68 - 4.45
- **Number of Crystals:** 6
- **Preset Frequencies:** 6
- **Antenna:** 15' Whip Antenna.
- **Tuning:** (Mo or XTAL) XTAL
- **Sensitivity:** Selectivity
- **Power Source:** Power Supply Unit PE-110
- **Similar Sets:**
  - **Power Output (Watts):** 45
- **Tubes:** Type and Number: SCR-543-C Uses:
  - 1 BC-669: 1 6H6; 1 6Z5; 1 6L6
  - 1 6G6; 3 6SN7; 1 12AT7; 1 6ST7; 1 660T
  - 1 PE-110-C-1 Type 60; 4 523

### Part C - Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver &amp; Transmitter BC-669</td>
<td>28 1/2&quot; x 20 3/6&quot; x 29 3/4&quot;</td>
<td>1810</td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-110</td>
<td>22 1/2&quot; x 15 1/4&quot; x 26 3/4&quot;</td>
<td>1650</td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-108</td>
<td>2.5&quot; x 25&quot; x 23 3/4&quot;</td>
<td>3200</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**
**SCR-551**

**NOMENCLATURE DESIGNATION**

**NOTE:** See individual sections for section classification.

**STATUS:** Substitute Standard

**INSTRUCTIONAL LITERATURE:** TM 11-217 (for SCR-551-A)

---

**PART A—TECHNICAL CHARACTERISTICS**

**CLASSIFICATION**

- **FREQUENCY RANGE:** (MHz) 2.0 to 20.0
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** None
- **ANTENNA:** 1000
- **TUNING:** (MO OR XTAL) Does not apply
- **SENSITIVITY:** 5 - 50 microvolts/meter
- **SELECTIVITY:**
- **POWER SOURCE:** 6V Storage Battery
- **SIMILAR SETS:** SCR-255, 555, 556
- **POWER OUTPUT:** (Watts)
- **TUBES:** (TYPE AND NUMBER)
  - 1 VT-66
  - 2 VT-90
  - 3 VT-91
  - 4 VT-105
  - 5 VT-115
  - 6 VT-120
  - 7 6008

---

**PART B—TACTICAL CHARACTERISTICS**

**CLASSIFICATION**

- **USE:** Radio direction finder for locating enemy transmitters and for navigational aids to friendly aircraft.
- **RANGE:**
- **TO COMMUNICATE WITH:** Does not apply
- **TO REPLACE IN PARTS:** SCR-255
- **TRANSPORTATION:** 10' x 6' x 6' (CR.
- **TYPE OF SIGNAL:** Does not apply

---

**PART C—PRINCIPAL COMPONENTS**

**CLASSIFICATION**

**ITEM**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-121 CONTAINING BOX</td>
<td>15 1/2</td>
<td>20</td>
<td>8</td>
<td>2100</td>
<td></td>
</tr>
<tr>
<td>VIBRATOR UNIT PE-151</td>
<td>17</td>
<td>20</td>
<td>8</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>CONTROL PANEL PM-21</td>
<td>15</td>
<td>20</td>
<td>8</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Oscilloscope BC-991</td>
<td>14</td>
<td>20</td>
<td>8</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Radio Receiver BC-976</td>
<td>14</td>
<td>20</td>
<td>8</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Tower TH-51</td>
<td>15 1/2</td>
<td>5 1/2</td>
<td>8</td>
<td>610</td>
<td></td>
</tr>
<tr>
<td>Assembled Antenna</td>
<td>12</td>
<td>10</td>
<td></td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Shelter NO-11</td>
<td>86</td>
<td>80</td>
<td>80</td>
<td>2050</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** Including crew, ladder, batteries: 2600 lbs

**COMBINED VOLUME OF COMPONENTS:**

**SHIP TONNAGE:**

---

**RADIO SET IDN-551**

Prepared for direction finding.

Equipment and operator rotate on top of 15-foot tower. Gives audible null and left-right bearing indication on oscilloscopes.
PART A - TECHNICAL CHARACTERISTICS
CLASSIFICATION

FREQUENCY RANGE: (MHz) 18 - 65
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: Aerial
TUNING: (MO OR XTAL) Does not apply
SENSITIVITY: Selectivity
POWER SOURCE: 12 V Storage Battery
SIMILAR SETS: SCR-551; SCR-556
POWER OUTPUT: (Watts) Does not apply

TUBES (TYPE AND NUMBER)
1 VT-120 2 VT-96
2 VT-112 2 VT-131
1 VT-105-A 1 VT-209
1 VT-251 1 VT-255
2 VT-260

PART B - TACTICAL CHARACTERISTICS
CLASSIFICATION

USE: Radio direction finder for locating enemy transmitters.

RANGE:
TO COMMUNICATE WITH: Does not apply
TO REPLACE IN PART: None
TRANSPORTATION: Cargo Truck
TYPE OF SIGNAL: Does not apply

PART C - PRINCIPAL COMPONENTS
CLASSIFICATION

ITEM
TOWER AND SHELTER ASSEMBLY TH-75 PACKED IN 5 CHESTERS
CHEST CH-135 CONTAINING 3 SHELTER SIDE SECTIONS
CHEST CH-136 CONTAINING ROOF SECTION
CHEST CH-137 CONTAINING 3 LOWER TOWER LEGS, 1 UPPER TOWER LEG, 1 APAX BLOCK, AND 3 RUDGES
CHEST CH-201 CONTAINING FLOOR SECTION
CHEST CH-202 CONTAINING 3 BARE BILLS, TARGET TRIPOD, LG-13-B, COMPASS TRIPOD, LG-14-B, AND GROUND ROPE SP-20
ANTENNA MAST ASSEMBLY AM-127 PACKED IN CHEST CH-105
PEDESTAL ASSEMBLY FT-360 PACKED IN CHEST CH-106
RECEIVER CABINET CS-155 CONTAINING 1 RECEIVER RC-1005, 1 POWER UNIT PE-195, AND 1 CODE CD-1028
MISCELLANEOUS ACCESSORIES

DIMENSIONS
HEIGHT
64" 64" 90" 90" 12" 12" 12" 100" 12" 12" 28"
WIDTH
59" 62" 12" 12" 12" 12" 12" 54" 54" 26" 26"
DEPTH
10" 9" 11" 7" 7" 14" 14" 36" 36" 16" 16"
WEIGHT
329 lbs 275 lbs 217 lbs 217 lbs 137 lbs 137 lbs 137 lbs 170 lbs 170 lbs 375 lbs
CLASSIFICATION

COMBINED WEIGHT OF COMPONENTS: 3,425 lbs
COMBINED VOLUME OF COMPONENTS: 780 cubic feet
SHIP TONNAGE: 1000 tons

NOTE: DIMENSIONS AND WEIGHTS SHOWN ARE FOR CHESTERS, INCLUDING COMPONENTS PACKED THEREIN.

GIVES AURAL NULL OR LEFT-RIGHT METER BEARING INDICATION; OPERATOR ROTATES WITH EQUIPMENT AT BASE OF TOWER, SAME AS RADIO SET SCR-556 EXCEPT FOR FREQUENCY RANGE.
**SCR-561**

**NOMENCLATURE DESIGNATION**

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

**STATUS:**

**CHANGE IN STATUS:**

**INSTRUCTIONAL LITERATURE:**

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

**FREQUENCY RANGE:** (M) Control Set SCR-567 P& 568

**Operations Block of Control Net System SCR-562**

**AND CONTAINS NO RADIO EQUIPMENT, HOUSES IN BUILDINGS NOT PART OF CONTROL SET.**

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:** None

**ANTENNA:** None

**TUNING:** (M) OR (XTAL) None

**SENSITIVITY:**

**SELECTIVITY:**

**POWER SOURCE:** Power Unit PE-99 (743 kva 110v. 3 phase 60 cycles) also provisions for using commercial power from a 110v. 2 wire service.

**SIMILAR SETS:** Control Set SCR-462

**POWER OUTPUTS (Watts):**

**TUBES:** (Type and Number) Chamber: 1 691.6, 1 6G4L, 1 Repeater

EX-99-15: 12 8285; 12 15087, 1 Tube Tester 54A-A


**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

**USE:** Control set used as an operations block which provides the necessary control equipment and auxiliaries to permit simultaneous operational control of up to four aircraft squadrons, for ground control of intercept or pursuit operations.

**RANGE:** (Miles) See SCR-562; SCR-563 etc.

**TO COMMUNICATE WITH:** Radio Sets SCR-562, SCR-563, SCR-564, SCR-565, and SCR-567 and also with Aircraft Equipped with Radio Set SCR-562.

**TO REPLACE IN PART:**

**TRANSPORTATION:** None

**TYPE OF SIGNAL:** See below

**PART C - PRINCIPAL COMPONENTS**

**(CLASSIFICATION: RESTRICTED)**

**ITEM**

**DIMENSIONS**

**WEIGHT**

**CLASSIFICATION**

1 Power Unit PE-99 each

55'' 20'' 50''

1600

Restricted

5 Control Unit RH-25 each

20'' 11 1/2'' 11 1/2''

44

Restricted

3 Control Unit RH-26 each

11 1/8'' 9''

8

Restricted

1 Control Unit RH-28

11 1/2'' 12''

7

Restricted

1 Distribution Panel EO-102

77 1/2'' 24 1/2'' 24''

300

Restricted

6 Telephone Repeater EE-99 each

8''

47

Restricted

2 Telephone EE-8 each

14 1/2'' 11 1/2''

9 1/2

Restricted

**COMBINED WEIGHT OF COMPONENTS:**

10,500 lbs

**COMBINED VOLUME:**

325 cubic ft.

**SHIP TONNAGE:**

5 1/4
**SCR-562**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** (Mod) 100-156
- **Number of Crystals:** Five (5) in use (full crystal complement will be determined by AAF).
- **Preset Frequencies:** Five
- **Antenna:** Vertical Dipole mounted on 90° mast.
- **Tuning:** (Mod or Xtal) Xtal.
- **Sensitivity:** Selectivity
- **Power Source:** Powers from 100V 2 wire service.
- **Power Output:** (Watts) 50 (approximately)

**Tubes:** (Type and Number) 8-6C460 Trans: 8 Each, 2-6G7A; 4-6G6; 4-6F8R; 2-6E5C; 4-6A8C; 2-6G7; 2-6G6T; 4-6F8R; 1-6G6T.

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** VHF Radio Transmitter Station for Ground Control of Aircraft Operations. Provides 5 Channels on 100-156 MHz.
- **Range:** (Miles) 135 miles with aircraft at an altitude greater than 10,000 ft.
- **To Communicate With:** Aviation Set SCR-562 by Telephone and/or Radio with Fighter Aircraft equipped with Radio Set SCR-562.
- **To Replace In Part:**
- **Transportation:** Two (2) Trailers, each trailer is 30 ft. long, making a total of 60 ft.
- **Type of Signal:** Voice

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Transmitters 6C460 (1 Spare)</td>
<td>72 in x 21 in x 20 in</td>
<td>515 lb</td>
<td>1</td>
</tr>
<tr>
<td>2 Control Units RM-27</td>
<td>19 in x 11 3/8 in x 10 1/2 in</td>
<td>29 lb</td>
<td>2</td>
</tr>
<tr>
<td>2 Power Units PC-99</td>
<td>55 in x 28 in x 50 in</td>
<td>1,600 lb</td>
<td>3</td>
</tr>
<tr>
<td>8 Antenna Equipment AO-61</td>
<td>12 in x 28 5/8 in x 38 1/2 in</td>
<td>1 lb</td>
<td>4</td>
</tr>
<tr>
<td>2 Trailers K-35 Each</td>
<td>120 in x 96 in x 19 in</td>
<td>6,000 lb</td>
<td>5</td>
</tr>
<tr>
<td>2 One-ton Cargo Trailers</td>
<td>72 in x 72 in x 13 in</td>
<td>1,300 lb</td>
<td>6</td>
</tr>
</tbody>
</table>

**Antennas AN-56 Each**

- **Made up of:**
  - Box 1
    - Box 2: 76 1/2 in x 91 1/2 in x 23 1/2 in
    - Box 3: 15 1/2 in x 91 1/2 in x 16 1/2 in
    - Box 4: 35 1/2 in x 86 1/2 in x 17 1/2 in
    - Box 5: 34 1/2 in x 86 1/2 in x 17 1/2 in

**Combined Weight of Components:** 4,500 lb

**Combined Volume of Components:** 5100 cu. ft.

**Ship Tonnage:** 21 1/2 tons
## SCR-563

### Part A - Technical Characteristics

**Frequency Range:** (No) 100 - 156

**Number of crystals:** 5 in use (Full Xtal complement to be determined by AF).

**Preset frequencies:** 6 Receivers BC-659 contained in SCR-563 are not crystal-controlled but are calibrated by means of the frequency meter BC-658. The frequency meter is set up for 5 crystals which are selected by means of a 5-point switch. A 1 Xtal is needed for each frequency.

**Antenna:** Vertical dipole mounted on 90° mast.

**Tuning:** (No or Xtal) variable.

**Sensitivity:** 2-5 µA/meter 50 W output.

**Selectivity:** 2 times down less 100 Kc, 1000 times down 500 Kc.

**Power source:** Power unit PE-99 (75 KVA 110V 3 phase 60 cycle); also has provisions for using commercial power from a 110V 2 wire service.

**Similar Sets:** SCR-635 (fixed).

**Power output:** (Watts) 1 (distorted), 0 (105% distortion).

**Tubes:** (Type and number) Receiving set for 50-2, 6 SK-55, 2 6SK7, 6 SK59; 6 B3; 1 B-60; 1 540; 1 6K5; 1 567; 1 584; 1 5AG6; 1 566.

### Part B - Tactical Characteristics

**Use:** VHF Radio Receiving Station for ground control of interceptor pursuit operations.

**Part of Control net system SCR-2. Provides 5 channels of radio receiving.

**Range:** (Miles) determined by output of airborne transmitter.

**To communicate with:** Control Set SCR-561 by telephone and by radio with fighter aircraft equipped with radio set SCR-562.

**To replace in parts:**

**Transportation:** 1 trailer K-35, 1 one-ton cargo trailer.

**Type of signal:** Receivers voice, tone modulated signal, and CW.

### Part C - Principal Components

**Classification:** Restricted

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 trailer K-35</td>
<td>6500 lb</td>
<td>6500 lb</td>
<td></td>
</tr>
<tr>
<td>1 one-ton cargo trailer</td>
<td>1500 lb</td>
<td>1500 lb</td>
<td></td>
</tr>
<tr>
<td>6 receivers BC-535 (1 spare)</td>
<td>1650 lb</td>
<td>1650 lb</td>
<td></td>
</tr>
<tr>
<td>6 control units N-45</td>
<td>1100 lb</td>
<td>1100 lb</td>
<td></td>
</tr>
<tr>
<td>6 antenna equipment BC-812 each</td>
<td>2000 lb</td>
<td>2000 lb</td>
<td></td>
</tr>
<tr>
<td>1 power unit PE-99</td>
<td>500 lb</td>
<td>500 lb</td>
<td></td>
</tr>
<tr>
<td>1 frequency meter BC-658</td>
<td>25 lb</td>
<td>25 lb</td>
<td></td>
</tr>
<tr>
<td>6 rectifier units (1 spare)</td>
<td>75 lb</td>
<td>75 lb</td>
<td></td>
</tr>
<tr>
<td>7 Socket panel FL-1</td>
<td>5 lb</td>
<td>5 lb</td>
<td></td>
</tr>
<tr>
<td>1 fuse panel FL-1</td>
<td>4 lb</td>
<td>4 lb</td>
<td></td>
</tr>
<tr>
<td>4 antenna AV-50 each made up</td>
<td>1000 lb</td>
<td>1000 lb</td>
<td></td>
</tr>
<tr>
<td>BOX = 1</td>
<td>1000 lb</td>
<td>1000 lb</td>
<td></td>
</tr>
<tr>
<td>BOX = 2</td>
<td>500 lb</td>
<td>500 lb</td>
<td></td>
</tr>
<tr>
<td>BOX = 3</td>
<td>250 lb</td>
<td>250 lb</td>
<td></td>
</tr>
<tr>
<td>BOX = 4</td>
<td>100 lb</td>
<td>100 lb</td>
<td></td>
</tr>
<tr>
<td>BOX = 5</td>
<td>50 lb</td>
<td>50 lb</td>
<td></td>
</tr>
</tbody>
</table>

**Combined weight of components:** 25,000 lbs

**Combined volume of components:** 3500 cu. ft.

**Ship tonnage:** 11,1/2 T

---

**Controller located at the Operations Block (SCR-561) communicates with Pilot by means of the receiver of the SCR-563 over wire line connections.**
**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (46) 100-156

**NUMBER OF CRYSTALS:** Two (2) in use (complete XTL complement to be determined by AAF)

**PRESET FREQUENCIES:** Two (2) (see below)

**ANTENNA:** Abode directional D/F with sense

**TUNING:** (MD on XTL) variable

**SENSITIVITY:** 2-5 microvolts/meter at 50mW.

**SELECTIVITY:** 3 times down less 100 Hz.

**POWER SOURCE:** Power unit PE-99 (75 VDC 110V, 60 cycle 3 phase). Also provisions for using commercial power from a 110V 2 wire service.

**POWER OUTPUT:** (Watts) 1 watt (distorted) 0.105 (distortion)

**TUBES:** (Type and number) 1 6H6; 1 5Y3; 1 9002; 2 9003; 1 6L4H; 1 6L5; 1 6F8; 2 6C59; 6 6G7; 2 6G6T; 2 6G6Q; 2 546.

**PART B - TACTICAL CHARACTERISTICS**

**USE:** Sector Nomina D/F Station for ground control of interceptor pursuit operations.

**RANGE:** (Miles) determined by output of airborne transmitter and height of aircraft.

**TO COMMUNICATE:** With fighter aircraft equipped with Radio SCR-522 by radio and with SCR-561 by telephone.

**TO REPLACE IN PART:**

**TRANSPORTATION:** None

**TYPE OF SIGNALS:** Radio voice, tone modulated signal and CB.

---

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(packed in 1 2 boxes)</td>
<td>1985</td>
<td>21 1/4 X</td>
</tr>
<tr>
<td>1  Torso TR-17</td>
<td>55&quot; x 28&quot; x 50&quot;</td>
<td>1400</td>
<td>Restricted</td>
</tr>
<tr>
<td>1  Power Unit PE-99</td>
<td>25&quot; x 60&quot; x 72&quot;</td>
<td>626</td>
<td>Restricted</td>
</tr>
<tr>
<td>1  Shelter HC-3</td>
<td>10 1/2&quot; x 19&quot; x 15 1/2&quot;</td>
<td>56</td>
<td>Restricted</td>
</tr>
<tr>
<td>2  Receiver RC-659</td>
<td>7&quot; x 19&quot; x 8 5/8&quot;</td>
<td>26</td>
<td>Restricted</td>
</tr>
<tr>
<td>2  Rectifier RA-12</td>
<td>11 1/2&quot; x 19&quot; x 7&quot;</td>
<td>55</td>
<td>Restricted</td>
</tr>
<tr>
<td>1  Frequency Meter BC-650</td>
<td>10 1/2&quot; x 19&quot; x 3 5/8&quot;</td>
<td>7</td>
<td>Restricted</td>
</tr>
<tr>
<td>1  Socket Panel PH-4</td>
<td>5&quot; x 19&quot; x 5&quot;</td>
<td>24</td>
<td>Restricted</td>
</tr>
<tr>
<td>1  Fuse Panel PH-15</td>
<td>5&quot; x 19&quot; x 11&quot;</td>
<td>150</td>
<td>Restricted</td>
</tr>
<tr>
<td>1  Antenna Equipment RC-62</td>
<td>1 Control Unit RH-24</td>
<td>33,500</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**TOTAL WEIGHT OF COMPONENTS: 2800 lbs.**

**SHIP Tonnage:**

16 3/4
SCR-566

PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: (MHz) 100 - 156
NUMBER OF CRYSTALS: 9 in use (full XTL complement to be determined by AF)
RECIPIENT FREQUENCY: 9 in BC=652; 4 in BC=653; 1 in BC=658.
ANTENNA: VERTICAL ADDON L/F WITH SENSING FACILITIES.
TUNING (IND OR XTL): BC=652; BC=653; XTL: BC=659 VARIABLE.
SENSITIVITY: 2-3 microvolts/minute at 50 m.
SELECTIVITY: 2 times below 100 kc.
1000 times above 300 kc.
POWER SOURCE: STORAGE BATTERY AND POWER UNIT PL-99
(72 V, 110V, 3 PHASE, 60 CYCLE) - also provisions for using commercial power from a 110V, 2 WIRE SERVICES.
SIMILAR SETS: Radio Set SCR-570.
POWER OUTPUT: (Watts) Transmitter BC=653 output 0 Watts minimum.
TUBES: (TYPE AND IMPULSER) see NOTE #

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: MOBILE DF STATION FOR GROUND CONTROL OF INTERCEPTOR PLANE OPERATION. PART OF CONTROL NET SYSTEM. SUB-SET AS A MOBILE HOMING AND DF STATION FOR PLANES EQUIPPED
WITH RADIO SET SCR-522.
RANGE: (DILES) 135 MILES WITH AIRCRAFT AT 10,000 FEET.
TO COMMUNICATE WITH: CONTROL SET SCR-566 BY TELEPHONE AND BY RADIO WITH FIGHTER AIRCRAFT EQUIPPED
WITH RADIO SET SCR-522.
TO REPLACE IN PARTS:
TRANSMITTER: ONE (1) TRUCK K-63, 1 TRAILER
K-65 (POWER)
TYPE OF SIGNALS: VOICE AND MCH.

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 TRUCK K-63</td>
<td>130&quot; x 96&quot; x 62&quot;</td>
<td>13,305 #</td>
<td></td>
</tr>
<tr>
<td>1 ATTACHMENT K-67</td>
<td>72&quot; x 72&quot; x 112&quot;</td>
<td>1,300 #</td>
<td></td>
</tr>
<tr>
<td>1 RECEIVER WCB-659</td>
<td>10 1/2&quot; x 10&quot; x 13 1/2&quot;</td>
<td>46 #</td>
<td></td>
</tr>
<tr>
<td>1 TRANSMITTER UNIT PN=100</td>
<td>6&quot; x 9&quot; x 10 1/2&quot;</td>
<td>23 #</td>
<td></td>
</tr>
<tr>
<td>1 TRANSMITTER UNIT PN=66</td>
<td>6&quot; x 12&quot; x 3&quot;</td>
<td>50 #</td>
<td></td>
</tr>
<tr>
<td>1 CONTROL UNIT RN-10</td>
<td>5&quot; x 10&quot; x 1 1/2&quot;</td>
<td>10 #</td>
<td></td>
</tr>
<tr>
<td>1 INSTRUMENT PL-99</td>
<td>7&quot; x 12&quot; x 9&quot;</td>
<td>1,400 #</td>
<td></td>
</tr>
<tr>
<td>1 CONTROL BOX BC=602</td>
<td>6&quot; x 1 1/2&quot; x 1 1/2&quot;</td>
<td>2 #</td>
<td></td>
</tr>
<tr>
<td>1 OSCILLATOR UNIT EQUIPMENT BC=653 (LC=655)</td>
<td>10 1/2&quot; x 9&quot; x 6 1/2&quot;</td>
<td>12 #</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS | 15,000 # |
COMBINED VOLUME OF COMPONENTS | 725 cubic feet |
SHIP TONNAGE | 0.015
SCR-567

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 100-156
NUMBER OF CRYSTALS: in use; 2 4-MHz transmitter station, 2 in receiver station (full XTL component to be determined by AAF)
SET FREQUENCY: 2 in transmitter station, 2 in receiver station (FREQ. METER)
ANTENNA: vertical dipole mounted on 50' mast.
TUNING (40 or XTL) transmitters XTL-receivers variable.
SENSITIVITY: 2-3 microvolts/µV at 50MW.
SELECTIVITY: 2 times down less 100 kc., 1000 times down more 350 kc.
POWER SOURCE: Power Unit PE-99 (71/2 KVA 110V 3 PHASE 60 CYCLE); also has provision for operation on commercial power from a 110V 2 wire service.
similar sets: Radio Set SCR-573 and SCR-575; also Radio Set SCR-687 (fixed)
PWR OUTP (Watts) 50 watts from transmitter, 1/2 watt receiver.
TUBES: (TYPE AND NUMBER) SEE NOTE *

PART B - TACTICAL CHARACTERISTICS

USE: Forward relay station for ground control of intercepter pursuit operations. Part of Control Net System SCR-2 provides 2 independent channels receiving and transmitting for extending the range of radio sets SCR-562 and SCR-565 when used as part of the fighter control system.
RANGE: (Miles) 135 miles with aircraft at 10,000 feet.
TO COMMUNICATE WITH: Control Set SCR-561 by telephone, and by radio with fighter aircraft equipped with radio Set SCR-522.
TO REPLACE IN PART:
TRANSP. 2 Truck L-53, 2 one-ton cargo trailers,
TYPE OF SIGNAL: Voice and CW

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Truck L-53 each</td>
<td>130&quot;</td>
<td>95&quot;</td>
<td>256&quot;</td>
<td>15,505</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. One-ton cargo trailers each</td>
<td>72&quot;</td>
<td>72&quot;</td>
<td>144&quot;</td>
<td>1,500</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. Power Unit PE-99 each</td>
<td>55&quot;</td>
<td>55&quot;</td>
<td>55&quot;</td>
<td>1,600</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. Transmitters 5C-6140 each</td>
<td>72&quot;</td>
<td>72&quot;</td>
<td>72&quot;</td>
<td>55</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. Receivers 5C-595 each</td>
<td>10 1/2&quot;</td>
<td>10 1/2&quot;</td>
<td>10 1/2&quot;</td>
<td>55</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1. Frequency Meter 5C-698</td>
<td>11 1/2&quot;</td>
<td>19&quot;</td>
<td>7&quot;</td>
<td>55</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1. Antenna At-57 each</td>
<td>5&quot;</td>
<td>19&quot;</td>
<td>19&quot;</td>
<td>16</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1. Antenna equipment QC-51 each</td>
<td>12&quot;</td>
<td>12&quot;</td>
<td>12&quot;</td>
<td>4</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. Control units RA-18 each</td>
<td>4&quot;</td>
<td>19&quot;</td>
<td>19&quot;</td>
<td>36</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. Amplifier BC-640 each</td>
<td>7&quot;</td>
<td>19&quot;</td>
<td>19&quot;</td>
<td>28</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2. Rectifier RA-12 each</td>
<td>5&quot;</td>
<td>19&quot;</td>
<td>5&quot;</td>
<td>24</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1. Fuse Panel Ph=15</td>
<td>4 3/5&quot;</td>
<td>19&quot;</td>
<td>5 1/2&quot;</td>
<td>15</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1. Fuse Panel Ph=5</td>
<td>19&quot;</td>
<td>14 1/2&quot;</td>
<td>14</td>
<td>RESTRICTED</td>
<td></td>
</tr>
<tr>
<td>1. Relay Unit BC-685</td>
<td>19&quot;</td>
<td>19&quot;</td>
<td>19&quot;</td>
<td>14</td>
<td>RESTRICTED</td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 40,000# APPROX.
COMBINED VOLUME OF COMPONENTS: 9,000 Cu. Ft.

SHAFT TONNAGE: 20 Tons
**SCR-572**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 160 - 166 Mc
- **The Control Set SCR-572 is an operations block of a fighter control system and contains no radio equipment.**
- **Number of Crystals:** None
- **Preset Frequencies:** None
- **Antenna:** None
- **Tuning:** (No or xtal) None
- **Sensitivity:**
- **Selectivity:**
- **Power Source:** Power Unit PE-99 (7½ KVA 110V 3 phase 60 cycle) Also has provisions for using commercial power from a 110V 2 wire service.
- **Similar Sets:** Control Set SCR-402 (fixed)
- **Power Output:** (Watts)
- **Tubes:** (Type and number) 3-60-667; 12-25L6.

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Control set used as an operations block which provides the necessary control equipment and accessories to permit simultaneous operational control of up to two (2) aircraft squadrons for ground control of interceptor pursuit operations.
- **Range:** (Miles) Minimum of 135 miles with aircraft at 10,000 ft.
- **To Communicate With:** SCR-573 SCR-574 SCR-575 and with aircraft equipped with SCR-582
- **To Replace In Part:**
- **Transportation:** Trailer K-557 1 Ton Tractor Truck; 1 Ton Cargo Trailer.
- **Type of Signal:**

**PART C - PRINCIPAL COMPONENTS**

- **Control Units RM-25:** Each
- **RM-25:** Each
- **Switchboards SM-72:** Each
- **Telephone Repeaters EE-99:** Each
- **Trailer K-55:**
- **One-Ton Cargo Trailer:** (Power)
- **One-and-One-Half Ton Tractor Truck:**
- **Relay Unit 80-667:**

**COMBINED WEIGHT OF COMPONENTS:** 20,000 Lbs.

**COMBINED VOLUME:** 1,000 cu. ft.

**SHIP Tonnage:** 10 Tons
SCR-573

**Nomenclature Designation:**

**Note:** See individual sections for section classification.

**Status:**

**Instructional Literature:**

**Part A - Technical Characteristics**

**Frequency Range:** (Hz) 100-156

**Number of crystals:** 2 in use (full XTL comple-

**Preset frequencies:** 2

**Antenna:** Vertical dipole mounted on 75' mast,

**Tuning:** (MO or XTL) XTL

**Sensitivity:**

**Selectivity:**

**Power source:** Power Unit P-89 (7.5 KVA 110V 60

**Output:** (Watts) 50

**Tubes:** (Type and Number) 2 BC640 TUBES 16-523;

**Battery:** 6-16V 6-41FL 2-60FL 2-12FL

**Similar sets:** Trans. station of SCR-567.


**Part B - Tactical Characteristics**

**Use:**

**Range:** Minimum of 135 miles with aircraft

**To communicate with:** Control set SCR-572, Radio
sets SCR-676, SCR-275 and aircraft equipped with
Radio set SCR-522.

**To replace in part:**

**Transportation:** 1 truck K-53 1 one-ton cargo

**Type of Signal:** Transmits voice and MCR.

**Part C - Principal Components**

**Classification:** Restricted

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Truck K-53</td>
<td>130&quot;</td>
<td>13,585</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Trailer K-63 (power)</td>
<td>96&quot; 256&quot;</td>
<td>2,600</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Trans. BC-440 EACH</td>
<td>72 21 20</td>
<td>515</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Control Unit RM-27</td>
<td>11 3/8 19 10 1/2</td>
<td>29</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Antenna AN-56</td>
<td>Packed in 5 packages approx.</td>
<td>763</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Antenna Equip. NC-61 EACH</td>
<td>12 28 38</td>
<td>4</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined weight of components:** 17,400 approx.

**Combined volume:** 2,225 cu. ft. approx.

**Ship tonnage:** 6 3/4 t approx.
**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

**FREQUENCY RANGE:** (MHz) 100-156

**NUMBER OF CRYSTALS:** 2 in use (full complement to be determined by AF).

**ANTENNA:** Vertical dipole mounted on 76" mast.

**TUNING:** (MO or KTAL)

**SENSITIVITY:** 2-3 mV/meter at 50 mW signal ratio.

**SELECTIVITY:** 10 to 1.

**POWER SOURCE:** 12 volt DC or 110 volt 3-phase 60 cycle.

**TUNING:** 2 x 100 ohms, less than 100 ohms.

**INPUT:** 1000 ohms.

**OUTPUT:** 500 ohms.

**POWER OUTPUT:** 1 watt.

**TRANSMITTER:** 1 watt.

**RECEIVER:** 1 watt.

**NOISE FIGURE:** 10 dB.

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

**USE:** Two channel receiver station for ground control of interceptor pursuit operations. Part of Control Net System SCR-53.

**RANGE:** Minimum of 135 miles with aircraft at 10,000 feet.

**TRANSPORTATION:** 1 truck K-55, 1 one-ton cargo trailer.

**TYPE OF SIGNAL:** Voice, tone modulated.

**PART C - PRINCIPAL COMPONENTS**

**CLASSIFICATION: RESTRICTED**

**ITEM**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>130&quot;</td>
<td>96&quot;</td>
<td>256&quot;</td>
</tr>
<tr>
<td>10 1/2</td>
<td>19</td>
<td>13 1/2</td>
</tr>
<tr>
<td>7</td>
<td>19</td>
<td>8 1/2</td>
</tr>
<tr>
<td>11 1/2</td>
<td>19</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>19</td>
<td>8 3/4</td>
</tr>
<tr>
<td>12</td>
<td>19</td>
<td>11</td>
</tr>
<tr>
<td>5</td>
<td>19</td>
<td>5</td>
</tr>
<tr>
<td>2 1/2</td>
<td>19</td>
<td>4 5/8</td>
</tr>
<tr>
<td>72</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>12</td>
<td>28 1/2</td>
<td>38 1/2</td>
</tr>
</tbody>
</table>

**WEIGHT**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>13,385</td>
</tr>
<tr>
<td>2</td>
<td>2,860</td>
</tr>
<tr>
<td>3</td>
<td>36</td>
</tr>
<tr>
<td>4</td>
<td>26</td>
</tr>
<tr>
<td>5</td>
<td>35</td>
</tr>
<tr>
<td>6</td>
<td>16</td>
</tr>
<tr>
<td>7</td>
<td>36</td>
</tr>
<tr>
<td>8</td>
<td>24</td>
</tr>
<tr>
<td>9</td>
<td>16</td>
</tr>
<tr>
<td>10</td>
<td>21</td>
</tr>
<tr>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td>12</td>
<td>74/3</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

16,900 pounds approx.

**COMBINED VOLUME:**

2,873 cu. ft. approx.

**SHIP TONNAGE:**

8 1/4 t. approx.
### SCR-575 Nomenclature Designation

**PART A: Technical Characteristics**
- **Classification**: Restricted
- **Frequency Range (MHz)**: 100-156
- **Number of Crystals**: 1 in BC-635, 4 in BC-625
- **Preset Frequencies**: 6 each for receiving and transmitting
- **Antenna**: Rotatable, adjustable D/F with sense facilities
- **Tuning**: (A or Xtal) Xtal on communications r/t
- **Variable on D/F receiver**
- **Sensitivity**: 2-3 microvolts/meter
- **Selectivity**: 2 times down less than 100 kc.
- **1000 times down more than 350 kc.
- **Power Source**: Power unit PE-95 and storage batteries; also operates from commercial power 115V, 2 wire.
- **Similar Sets**: SCR-566 and SCR-615 (fixed)
- **Power Outputs (Watts)**: Communications Transmitters 6 watts minimum
- **Tubes (Type and Number)**: BC-635; 1-6307; 1-6367; 1-9002/93; 1-6007; BC-651; 1-6401; 1-6847; BC-625; 1-6303; BC-645; 1-6517; 1-6847; BC-625; 1-6302; 1-6847; 1-6846, 1-6305; 1-6307; BC-625; 1-6251; 1-6847; 1-6848; 1-6307.

**PART B: Tactical Characteristics**
- **Classification**: Restricted
- **Use**: Mobile direction finding station for ground control of interdiction pursuit operations. Part of Combat Net System SCR-3.
- **Range**: Minimum of 125 miles with aircraft at 16,000 feet.
- **To Communicate With**: Fighter aircraft equipped with SCR-522.
- **To Replace in Part**: None
- **Transportation**: 1 truck K-55, 1 trailer K-63 (Powers)
- **Type of Signal**: Receiver voice, tone modulated and C.W. Transmits voice modulation.

### PART C: Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions (Height x Width x Depth)</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Truck K-55</td>
<td>150 x 90 x 230</td>
<td>1530 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>2. Transmitter BC-625</td>
<td>14 x 19 x 4</td>
<td>2000 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>3. Rectifiers RA-42 x 2</td>
<td>14 x 19 x 2</td>
<td>3600 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>4. Receiver BC-625</td>
<td>14 x 19 x 4</td>
<td>2000 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>5. Antenna Equipment RC-153</td>
<td>10 x 12 x 2</td>
<td>350 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>6. Oscillator Test Equipment RC-93</td>
<td>6 x 12 x 2</td>
<td>750 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>7. Crystal Rectifier Unit PE-97</td>
<td>7 x 12 x 2</td>
<td>350 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>8. Control Panel P11-15</td>
<td>13 x 18 x 2</td>
<td>850 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>9. Control Panel P11-16</td>
<td>13 x 18 x 2</td>
<td>850 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>10. Relay Unit BC-625</td>
<td>12 x 12 x 2</td>
<td>400 lb</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components**: 16,500 lb
**Combined Volume of Components**: 2,272 cu. ft.
**Ship Tonnage**: 12 T (approx.)

---

*This sheet is classified Restricted*
SCR-578

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (M) INTERNATIONAL DISTRESS FREQUENCY, 400 MODULATED AT 1000 OPS.
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: Preset to 500 MHz
ANTENNA: 300 FT. ANTENNA WIRE M-148, BOUND ON REEL R-148 AND RAISED BY BALLOON M-278-A OR KITE M-277-A.
TUNING: (MO OR XTAL)
SENSITIVITY: SELECTIVITY:
POWER SOURCE: Built-in generator, operating by hand crank G-10-A.
SIMILAR SETS: Captured German "Not-Sender".
POWER OUTPUT: (WATTS) 4.8
TUBES: (TYPE AND NUMBER)

1 - BC 778-8 TRANSISTORS
1 - 12-2-9-6
1 - 12-50-7

PART C - PRINCIPAL COMPONENTS

ITEM
2 ROLLS - 300 FT EA ANTENNA WIRE M-148
1 BUS - HOUSING FOR ACCESSORIES M-101
1 BUS - HOUSING FOR TRANSCEIVER M-110
2 BALLOONS M-278
1 HAND CRANK M-277
2 GENERATORS M-515 (HYDROGEN)
2 BALLOON INFLATING TUBES
1 KITE M-277
1 RADIO TRANSCEIVER BC-778
1 SIGNAL LAMP M-508
1 PARACHUTE M-276

WEIGHT
1.1
3.2
1.4
2.4
4.5
5.92
1.6
1.65
15.1
1.2
1.0

COMBINED WEIGHT OF COMPONENTS:

250 APPROX.

COMBINED VOLUME:

3 TO 4 CUBIC FT APPROX.

SHIP Tonnage:

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**SCR-583**

**PART A - TECHNICAL CHARACTERISTICS**
- **FREQUENCY RANGE**: 2.2 - 4.6 MHz
- **NUMBER OF CRYSTALS**: 4
- **PRESET FREQUENCIES**: 4
- **ANTENNA**: "Fisheye" 5', moving, stationary 20'
- **TUNING**: MO or XTAL BOTH
- **SENSITIVITY**: 
- **SELECTIVITY**: 
- **POWER SOURCE**: Dry battery for receiver and hand generator for transmitter or vehicle battery, 6 or 12 V. for transmitter and receiver.
- **SIMILAR SETS**:
- **POWER OUTPUTS (WATTS)**
  - 1 Receiver - 10 W
  - 1 Transmitter - 1 W
  - 1 TC-70
  - 1 1/2-90-30
  - 1 1/2

**PART B - TACTICAL CHARACTERISTICS**
- **USE**: Day: M102, M103, & Horse Pack units.
- **RANGE**: (Miles) 35 miles on low power CW, maximum 50 miles on high power CW.
- **TO COMMUNICATE WITH**:
- **TO REPLACE IN PART**: SCR-203
- **TRANSPORTATION**: Horse pack or vehicle.
- **TYPE OF SIGNAL**: CW; Voice (AM)

**PART C - PRINCIPAL COMPONENTS**
<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver &amp; Transmitter BC-1209</td>
<td></td>
<td>Unclassified</td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-152</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Converter Unit PE-154</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generator G15-34</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 120 lbs
**COMBINED VOLUME**: 2 cu. ft

**SHIP Tonnage**:

---

**THIS SHEET IS CLASSIFIED**: UNCLASSIFIED
SCR-585

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 3.5 - 6 (Reception & Transmission) See Remarks.
NUMBER OF CRYSTALS: 2
PRESET FREQUENCIES: 1 ea. Transmitting & Receiving
ANTENNA: Telescopic antenna 39" long.
SENSITIVITY:
POWER OUTPUTS (Watts)
1 - BC - 721-A 2 - 185
2 - 540

PART B - TACTICAL CHARACTERISTICS

USE: Dual purpose radio receiver and transmitter, designed for use in towed gliders to be removed and used for ground communication.
RANGE: (Miles) 100 ft to 1 mile.
TO COMMUNICATE WITH: Other radio sets SCR-585.

PART C - PRINCIPAL COMPONENTS

ITEM
Radio Receiver and Transmitter BC-721-B
Radio Control Box BC-722-B
Control Shaft MC-355-B
Mounting FT-295-B

NOTE: Due to variations in aircraft installations, both weights and volumes of complete sets vary considerably, and the figures shown are therefore approximate.

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP TONNAGE:

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**SCR-593**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range (MHz):** 2.0 - 6.0 (Receiver Only)
- **Number of Crystals:** None
- **Preset Frequencies:** 1/4 (Selected by Push Button)
- **Antenna:** Vertical Rod, AN-75-A
- **Tuning:** (No or Xtal)
- **Sensitivity:**
- **Selectivity:**
- **Power Source:** Self-contained, Similar to GE Portable Receiver Model LB-520 88-56-A
  - Vibrator VB-8 & VB-9
- **Similar Sets:** None
- **Power Output (Watts):**
- **Tubes:** (Type and Number) 1 BC-728-A, 1 395, 1 155, 2 176, 2 254

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Emergency, Mobile, and Combat Units; CAD: AA, & Bar, Dnk. Units.
- **Range:** (Miles) to receive signals from SCR-543 up to 20 Miles.
- **To Communicate With:** SCR-543, (SCR-593 Receiver Only)
- **To Replace in Part:** None
- **Transportation:** Carried by one man. To be operated on ground or in vehicle.
- **Type of Signal:** Voice (AM)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver, BC-728</td>
<td>11 9/16&quot; x 8 3/8&quot; x 5 5/8&quot;</td>
<td>15#</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**

---

Radio Set SCR-593 Prepared for Operation

Portable radio receiver. Alert or warning signals. Accessories self-contained.
SCR-607

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 27-145
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: 3 tiers, horizontal dipole (1 for each of the 3 bands of receiver) mounted on 21-ft mast. Tuning: (MO or XTAL) does not apply
SENSITIVITY: Selectivity:
POWER SOURCE: 110V A.C.
SIMILAR SETS: None
POWER OUTPUT: (Watts) Does not apply
TUBES: (TYPE AND NUMBER)
2 VT-90
1 VT-6L
2 VT-107
2 VT-112
1 VT-117
1 VT-120
1 VT-121
1 VT-122
1 VT-123

PART B - TACTICAL CHARACTERISTICS

USE: An intercept receiver for monitoring purposes.
RANGE: Does not apply
TO COMMUNICATE WITH: Does not apply
TO REPLACE IN PART: None
TRANSPORTATION: Any available vehicle.
TYPE OF SIGNAL: Receiver AM and FM.

PART C - PRINCIPAL COMPONENTS

ITEM
Rece tor BC-707
Antenna NC-154

DIMENSIONS
9 3/8" 15" 11.5"
360 ---- ----

WEIGHT
630 lbs
200 lbs

COMBINED WEIGHT OF COMPONENTS:
COMBINED VOLUME OF COMPONENTS:
SHIP TONNAGE:

---

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**SCR-608**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 27.0 - 38.9 MHz
- **NUMBER OF CRYSTALS:** 120
- **PRESET FREQUENCIES:** 10 (Push-Button Selection)
- **ANTENNA:** Fishpole Type
- **TUNING:** (NO or XTAL) Crystal
- **SENSITIVITY:**
- **SELECTIVITY:**
- **POWER SOURCES:** 12 or 24 V, Vehicle Battery with Dynamotors
- **SIMILAR SETS:** SCR-508 (Except Frequency Band)
- **POWER OUTPUT:** (Watts) 35
- **TUBES:** (Type and Number) SC6-685 (A) Recev; 3 Type 6C6Q-7; 1 Type 6J5; 2 Type 12 AT7; 1 Type 6H6; 1 Type 6607; 2 Type 6SL7; SC6-684 (A) Trans; 7 Type 1610; 1 Type 1626

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** Used by Field Artillery, Signal Corps
- **RANGE:** (Miles) 10 to 15
- **TO COMMUNICATE WITH:** SCR-608, SCR-609, SCR-610, SCR-628
- **TO REPLACE IN PART:** SCR-161, SCR-284, SCR-194
- **TRANSPORTATION:** Vehicles
- **TYPE OF SIGNAL:** FM Voice only

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Radio Trans, BC-665</td>
<td>HEIGHT</td>
<td>670</td>
<td></td>
</tr>
<tr>
<td>2 Radio Recev, BC-685</td>
<td></td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>1 Mounting FT-257</td>
<td></td>
<td>440</td>
<td></td>
</tr>
<tr>
<td>1 Remote Control Unit RM-29</td>
<td></td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**

550 lbs

**COMBINED VOLUME:**


**SHIP Tonnage:**


---

**STATUS:**

- **STANDARD:**
- **CHANGE IN * STATUS:**

---

**INSTRUCTIONAL LITERATURE:**

- **TM 11-620**

---

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

---

**THIS SHEET IS CLASSIFIED:**

**UNCLASSIFIED**
**SCR-609**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** (Mo) 27.0 - 38.9
- **Number of Crystals:** 120
- **Preset Frequencies:** 2
- **Antenna:** Fiberglass Type AM-29-D
- **Tuning:** (Mo or XTAL) XTAL
- **Sensitivity:** Selectivity
- **Power Source:** Dry Batteries: BA-39, LQ, L.
- **Similar Sets:** SCR-610 except for power supply.
- **Power Output:** (Watts) 2
- **Tubes:** (Type and Number) 1 BC-659-A -
  - 1 BC-659-A
  - 1 BC-659-A
  - 2 BC-659-A
  - 1 BC-D
  - 1 BC-D
  - 1 BC-D

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** FA; Short range reconnaissance, fire control & similar uses.
- **Range:** (Miles) 5
- **To Communicate With:** SCR-608; SCR-609; SCR-610; SCR-628.
- **To Replace In Part:** SCR-161; SCR-19A; SCR-268; SCR-280.
- **Transportation:** Vehicle, or man pack.
- **Type of Signals:** Voice (FM)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECOV. &amp; TRANS. BC-659</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case CS-79 (For Batteries)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Control Unit NW-29</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 170#

**Combined Volume:** 1.3 cu. ft.

**Ship Tonnage:**

---

This sheet is classified: UNCLASSIFIED
### SCR-610

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 27.0 - 30.9 MHz
- **NUMBER OF CRYSTALS:** 120
- **Preset Frequencies:** Two pre-set crystal controlled channels.
- **Antenna:** Fishpole type, AN-29-C and vehicular unit.
- **Tuning:** (MO or XTAL) XTAL
- **Sensitivity/Selectivity:**
- **Power Source:** Dry batteries; power unit PE-117
- **Similar Sets:** SCR-609 (Except for added power pack)
- **Power Output:** 2 watts
- **Tubes:** Type and number: 1 BC-659(US) 5 11UVS; 2 1291; 4 1291; 1 114A1; 1 1256; 1 P-117 US, 1 VR-90-30; 1 0X100.

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** CW/SSB; SSB; FSK; MILO for forward observers and intra-battery communication.
- **Range:** (Miles) 5
- **To Communicate With:** SCR-601; SCR-602; SCR-610; SCR-628.
- **To Replace In Part:** SCR-161; SCR-164; SCR-264; SCR-364.
- **Transportation:** Transports 2 in vehicle or carried by man on foot.
- **Type of Signal:** Voice (FM)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recvr. &amp; Trans. BC-659</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plate Supply Unit PE-117</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting FT-250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Control Unit RM-29</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case CS-79 (for batteries)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 177 lbs

**Combined Volume:** 1.5 cu. ft.

**Ship Tonnage:**

---

This sheet is classified. UNCLASSIFIED
### PART A - TECHNICAL CHARACTERISTICS
(Classification: **RESTRICTED**

- **Frequency Range:** (MHz) 27 - 38.9
- **Number of Crystals:** 22
- **Preset Frequencies:** 2
- **Antenna:**
- **Tuning:** (MD or XTAL) XTAL
- **Sensitivity:**
- **Selectivity:**
- **Power Source:**
- **Similar Sets:** SCR-609; SCR-610.
- **Power Output:** (Watts) 2
- **Tubes:** (Type and Number)
  - 6T46
  - 1R4
  - 12AT7
  - 5624
  - 1A5

### PART B - TACTICAL CHARACTERISTICS
(Classification: **RESTRICTED**

- **Use:** Field Artillery
- **Range:** (Miles) Approx. 5
- **To Communicate With:** SCR-608; SCR-609; SCR-628.
- **To Replace In:** SCR-609; SCR-610.
- **Transportation:** Man carried, animal pack, or field artillery vehicle.
- **Type of Signal:** Voice, (FM)

### PART C - PRINCIPAL COMPONENTS
(Classification: **RESTRICTED**

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

(in development stage - components not yet definitely determined)

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**

This sheet is classified **RESTRICTED**
**SCR-624**

**PART A - TECHNICAL CHARACTERISTICS**

| FREQUENCY RANGE: | (MHz) | 100 - 156 |
| NUMBER OF CRYSTALS: | 8 |
| PRESET FREQUENCIES: | 8 |
| ANTENNA: | 2\" TUBE ON 50 FT. MAST |
| TUNING: | (MO OR XTAL) XTAL |
| SENSITIVITY: | SELECTIVITY |
| POWER SOURCE: | GASOLINE ENGINE DRIVEN GENERATOR 110 V. AC |
| SIMILAR SETS: | USED SAME TRANSMITTER AND RECEIVER COMPONENTS AS SCR-522 AND SCR-542 |
| POWER OUTPUT: | (Watts) 6 WATTS VOICE |
| TUBES: | (Type and Number) 1-12A6A RECVR; 1-12G6G; 1-12B6; 1-12C6; 1-500U; 1-205V; 2-12D7; 1-12A65A TRANS; 2-632; 2-12A6; 1-6600; 2-6367 |

**PART B - TACTICAL CHARACTERISTICS**

| USE: | POINT-TO-POINT ON GROUND, GROUND STATION ON GROUND-TO-AIR COMMUNICATIONS |
| RANGE: | (MILES) LINE-OF-SIGHT, MAXIMUM OF 130 MILES GROUND-TO-AIR |
| TO COMMUNICATE WITH: | SCR-522; SCR-542; SIMILAR VHF AIRCRAFT COMMAND SETS |
| TO REPLACE IN PART: | |
| TRANSPORTATION: | AIR TRANSPORTABLE, AND TRUCK |
| TYPE OF SIGNAL: | VOICE |

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CHEST CH-173-A</td>
<td></td>
</tr>
<tr>
<td>1 CHEST CH-172-A</td>
<td></td>
</tr>
<tr>
<td>1 CHEST CH-170-A</td>
<td></td>
</tr>
<tr>
<td>1 ANTENNA MAST MA-7-A, CONSISTING OF:</td>
<td></td>
</tr>
<tr>
<td>1 STAP CRATE (50 FT. PLYWOOD MAST)</td>
<td></td>
</tr>
<tr>
<td>1 STAP BOX</td>
<td></td>
</tr>
<tr>
<td>1 SPARE PARTS BOX</td>
<td></td>
</tr>
<tr>
<td>1 POWER UNIT PE-75</td>
<td></td>
</tr>
</tbody>
</table>

**DIMENSIONS**

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<tr>
<th>AREA</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
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<tbody>
<tr>
<td>5/4&quot;</td>
<td>16 3/4&quot;</td>
<td>13 3/4&quot;</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>16 3/8&quot;</td>
<td>13 3/8&quot;</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>14 3/8&quot;</td>
<td>13 3/8&quot;</td>
</tr>
<tr>
<td>1 3/4&quot;</td>
<td>16 1/2&quot;</td>
<td>13 1/2&quot;</td>
</tr>
<tr>
<td>3 3/4&quot;</td>
<td>16 3/4&quot;</td>
<td>12 1/4&quot;</td>
</tr>
<tr>
<td>3 1/2&quot;</td>
<td>13 1/2&quot;</td>
<td>11 1/2&quot;</td>
</tr>
<tr>
<td>5 1/2&quot;</td>
<td>19 1/2&quot;</td>
<td>26 1/2&quot;</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME OF COMPONENTS:**

**SHIP TOWNAGE:**

**NOTE:** SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.
SCR-625

PART A - TECHNICAL CHARACTERISTICS

- FREQUENCY RANGE: (MHz)
- NUMBER OF CRYSTALS:
- PRESET FREQUENCIES: 1 MHz
- ANTENNA:
- TUNING: (MO OR XTAL) MO
- SENSITIVITY:
- SELECTIVITY:
- POWER SOURCE: 2 ea. BATTERY BA-50; 1 ea. BATTERY BA-36.
- SIMILAR SETS: None
- POWER OUTPUTS (WATTS):
- TUBES (TYPE AND NUMBER): 1 ea. 106GT; 2 ea. VT-146 (1N657).

PART B - TACTICAL CHARACTERISTICS

- USE: Used for detecting anti-tank and anti-personnel land mines.
- RANGE: About 2 ft.
- TO COMMUNICATE WITH:
- TO REPLACE IN PART:
- TRANSPORTATION: Portable by 1 man.
- TYPE OF SIGNAL: Visual indication on meter; audible indication in resonator horn on left shoulder of user.

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amplifier BC-1161</td>
<td>1/4&quot;</td>
<td>6&quot;</td>
<td>5&quot;</td>
<td>50</td>
<td>UNCLASSIFIED</td>
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<tr>
<td>Chest Ch-156</td>
<td>28 1/2&quot;</td>
<td>6 1/2&quot;</td>
<td>15&quot;</td>
<td>250</td>
<td>UNCLASSIFIED</td>
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<tr>
<td>Control Box BC-1160</td>
<td>7&quot;</td>
<td>7&quot;</td>
<td>5&quot;</td>
<td>50</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Handle M-350</td>
<td>28 1/2&quot;</td>
<td>1 1/8&quot; DIAMETER</td>
<td>1200</td>
<td>300</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Resonator M-356</td>
<td>3&quot;</td>
<td>3&quot; DIAMETER</td>
<td>300</td>
<td>50</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Search Coil C-146</td>
<td>1&quot;</td>
<td>13&quot; DIAMETER</td>
<td>300</td>
<td>50</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 58 1/32"
COMBINED VOLUME OF COMPONENTS: 28 1/4" x 8 1/4" x 15" when packed in Ch-156.

SHIP TONNAGE:
**SCR-628**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range**: 27 - 36.9 MHz
- **Number of Crystals**: 120
- **Preset Frequencies**: 10 instantaneous selection while moving or halted
- **Antenna**: Fishpole type, vehicular
- **Tuning**: (no or XTAL) XTAL
- **Sensitivity**: Selectivity
- **Power Source**: 12 volt vehicular battery
- **Similar Sets**: SCR-528 (different frequency) SCR-608 but with only one receiver
- **Power Output**: (watts) 55
- **Tubes**: (type and number)
  - 5 6AC7
  - 5 6G6
  - 1 606T
  - 5 6G6GT
  - 2 6AL6T

**PART B - TACTICAL CHARACTERISTICS**

- **Use**: CS2: Smoke Gen Co; FA1: AA and AT Warning and Control nets, etc. C.P.: Fire Control and Fire-Direction nets and intra-ship communication.
- **Range**: (Miles) Moving - 10 miles; Halted - 15 miles
- **To Communicate With**: SCR-608; SCR-609; SCR-610; SCR-628.
- **To Replace in Part**: SCR-196; SCR-267.
- **Transportation**: Transports fully operated in vehicles
- **Type of Signal**: Voice (FM)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans. BD-688</td>
<td>11&quot;</td>
<td>14.5&quot;</td>
<td>34&quot;</td>
<td>190#</td>
<td></td>
</tr>
<tr>
<td>Receiver BD-689</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Mounting FT-237</td>
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<tr>
<td>Antenna Mast Base HW-68</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Remote Control Unit RM-29</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**
PART A - TECHNICAL CHARACTERISTICS

**(Classification: Restricted)**

**FREQUENCY RANGE**: 100 - 156

**NUMBER OF CRYSTALS**: 5

**PRESET FREQUENCIES**: 5

**ANTENNA**: Vertical dipole mounted on 90° mast.

**SENSITIVITY**

**SELECTIVITY**

**POWER SOURCE**: Power unit PE-99 (28 KVA 110V)

**3 PHASE 60 CYCLE**: Also provision for using commercial power from 110V 2 wire service.

**SIMILAR SETS**: SCR-562

**POWER OUTPUT**: (Watts) 50 (Approximately)

**TUBES**: (Type and number) 6-BC-60 Trans (2) each, (6U) 525; 4 each (2G); 2 each (BEF); 3 each (1615); 2 each (1S); 1 each (6G); 2 each (5G); 2 each (30), tetrodeo.

**INDICATOR**: RCA 1251-1, 2AP1/10861.

**TRANSMITTER**: 2-50C1, 1-1086, 1-1069,

**REPLACEMENT PARTS**

**TRANSPORTATION**

**TYPE OF SIGNAL**: Voice and tone.

PART B - TACTICAL CHARACTERISTICS

**(Classification: Restricted)**

**USE**: VHF Radio Transmitting Station for ground control of interceptor pursuit operations. Part of control net system SCR-552. Provides 5 independent channels of radio transmission.

**RANGE**: (Miles) 135 miles with aircraft at an altitude greater than 10,000 feet.

**TO COMMUNICATE WITH**: Control set SCR-561 by telephone and by radio with fighter aircraft equipped with radio set SCR-522.

**TO REPLACE IN PART**

**CLASSIFICATION**

**ITEM**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>72''</td>
<td>21''</td>
<td>20''</td>
</tr>
<tr>
<td>19''</td>
<td>11 1/2''</td>
<td>10 1/2''</td>
</tr>
<tr>
<td>55''</td>
<td>26''</td>
<td>50''</td>
</tr>
<tr>
<td>12''</td>
<td>26 5/8''</td>
<td>30 1/2''</td>
</tr>
</tbody>
</table>

**WEIGHT**

| 5150 |
| 290  |
| 1,600 |
| 140  |

**COMBINED WEIGHT OF COMPONENTS**: 25500 lbs.

**COMBINED VOLUME OF COMPONENTS**: 900 cu. ft.

**SHIP TONNAGE**: 12 1/4 t.
**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (ME) 100-156 MHz

**NUMBER OF CRYSTALS:** 6 IN USE (FULL XTL COMPLEMENT TO BE DETERMINED BY AAF).

**PRESET FREQUENCIES:** 6 RECEIVERS, BO-659 CONTAINED IN SCR-656 ARE NOT CRYSTAL CONTROLLED BUT ARE CALIBRATED BY MEANS OF THE FREQUENCY METER BO-658. THE FREQUENCY METER IS SET UP FOR 5 CRYSTALS WHICH ARE SELECTED BY MEANS OF A 5-POINT SWITCH. 1 XTL IS NEEDED FOR EACH FREQUENCY.

**ANTENNA:** VERTICAL DIPOLES MOUNTED ON 90° MAST.

**TUNING:** (NO ON XTL) VARIABLE

**SENSITIVITY:** 2-3 v/mETER 50 MW OUTPUT.

**SELECTIVITY:** 2 TIMES DOWN LESS 100 KG, 1000 TIMES DOWN MORE 350 KG.

**POWER SOURCE:** POWER UNIT PE-99 (75 KVA 110v 3 PHASE 60 CYCLE); ALSO HAS PROVISIONS FOR USING COMMERCIAL POWER FROM A 110V 2 WIRE SERVICE.

**SIMILAR SETS:** SCR-565

**POWER OUTPUT (RAW/RTS):** 6.10w (DISTORTION): 8.10w DISTORTION.

**TUBES:** (TYPE AND NUMBER) RECEIVING SET FOR SCR-522.

**RANGE:** (MILES) DETERMINED BY OUTPUT OF AIRBORNE TRANSMITTER.

**TO COMMUNICATE WITH:** CONTROL SET SCR-561 BY TELEPHONE AND BY RADIO WITH FIGHTER AIRCRAFT EQUIPPED WITH RADIO SET SCR-522.

**TO REPLACE IN PART:**

**TRANSPORTATION:**

**TYPE OF SIGNAL:** RECEIVER VOICE, TONE MODULATED SIGNAL AND CW.

---

**PART B - TACTICAL CHARACTERISTICS**

**USE:** VHF RADIO RECEIVING STATION FOR GROUND CONTROL OF INTERCEPTOR PURSUITS OPERATIONS, PART OF CONTROL NET SYSTEM SCR-522, PROVIDES 5 CHANNELS OF RADIO RECEIVING.

---

**PART C - PRINCIPAL COMPONENTS**

**ITEM**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 RECEIVERS BO-659 (1 SPARE)</td>
<td>10 1/2&quot; x 19&quot; x 13 1/2&quot;</td>
<td>36#</td>
<td></td>
</tr>
<tr>
<td>1 Control Unit RM-23</td>
<td>5&quot; x 19&quot;</td>
<td>1#</td>
<td></td>
</tr>
<tr>
<td>8 Antenna Equipment RO-81</td>
<td>12&quot; x 20 1/2&quot; x 38 1/2&quot;</td>
<td>100#</td>
<td></td>
</tr>
<tr>
<td>1 Power Unit PE-99</td>
<td>55&quot; x 26&quot;</td>
<td>1600#</td>
<td></td>
</tr>
<tr>
<td>1 Frequency Meter BO-658</td>
<td>11 1/2&quot; x 19&quot; x 7&quot;</td>
<td>35#</td>
<td></td>
</tr>
<tr>
<td>6 Rectifier Tubes RA-1/2 (1 SPARE)</td>
<td>7&quot; x 18 1/2&quot; x 12 3/4&quot;</td>
<td>26#</td>
<td></td>
</tr>
<tr>
<td>3 Socket Panel PM-4</td>
<td>10 1/2&quot; x 19&quot; x 3 1/8&quot;</td>
<td>7#</td>
<td></td>
</tr>
<tr>
<td>1 Fuse Panel PN-15</td>
<td>5&quot; x 19&quot; x 5&quot;</td>
<td>2#</td>
<td></td>
</tr>
<tr>
<td>4 Antenna AH-50 EACH MADE UP</td>
<td>100&quot; x 44 1/2&quot; x 25 3/4&quot;</td>
<td>2000#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>76 1/2&quot; x 41 1/2&quot; x 21 1/2&quot;</td>
<td>647#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13 1/2&quot; x 24 1/2&quot; x 17 1/2&quot;</td>
<td>190#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>51 1/2&quot; x 24 1/2&quot; x 17 1/2&quot;</td>
<td>849#</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 19,500#

**COMBINED VOLUME OF COMPONENTS:** 700 cu. ft.

**SHIP Tonnage:** 9 3/4 T.
**SCR-634**

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

**FREQUENCY RANGE:** (MHz) 100 - 156

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCY:** By Receiver Calibration Dial.

**TRANSMITTER BC-655 (Target)**

**ANTENNA:** Ashook-Directional D/F with sensing.

**TUNING:** (NO OR XTAL) VARIABLE.

**SENSITIVITY:** 2.5 Microvolts per meter at 50 MHz

**SELECTIVITY:** 2 times 100 Kc 1.000 times 10 More than 500 Kc

**POWER SOURCE:** Power Unit PE-75 2.5 KVA 110 Volts Single Phase 60 CYCLES OR Power Unit PE-2111, 500 Watt 120 Volts Single Phase 60 CYCLES (Both gas engines)

**SIMILAR SETS:** SCR-565

**POWER OUTPUT:** (Watts) 1 (Distorted) 1/2 (10% distortion)

**TUNER (Type and Number):** Receiver BC-659: RA-42

**RECTIFIER:** RA-42

**TRANSMITTER:** BC-655, Target

**RECEIVER:** 1 659T 1 666T 1 9002 1 9003 1 6597

**TRANSPORTATION:** Designed as an Air Transportable VHF Direction Finder Station.

**TYPE OF SIGNAL:** Receiver Voice, Tone Modulated Signal and C.W.

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION: RESTRICTED**

**USE:** Radio Set SCR-634-A is an Air Transportable Self-Contained Field Operated Radio Direction Finder (D/F) Station used primarily with other units of the same kind as a Fixed D/F Station or as a Home D/F Station when Radio Set SCR-634-A is added. All equipment is housed in Shelter No-54-A.

**RANGE:** Determined by output of Airborne Transmitter.

**TO COMMUNICATE WITH:** Fighter Aircraft Equipped with Radio Set SCR-522.

**TO REPLACE IN PART:**

**TRANSPORTATION:** Designed as an Air Transportable VHF Direction Finder Station.

**TYPE OF SIGNAL:** Receiver Voice, Tone Modulated Signal and C.W.

---

**PART C - PRINCIPAL COMPONENTS**

**CLASSIFICATION: RESTRICTED**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Receiver BC-659</td>
<td>10 1/2&quot; 19&quot; 13 1/4&quot; 360#</td>
</tr>
<tr>
<td>1 Rectifier Unit RA-42</td>
<td>7&quot; 19&quot; 6 1/2&quot; 260#</td>
</tr>
<tr>
<td>1 Antenna Equipment No-153-B</td>
<td>10 1/2&quot; 9&quot; 6 3/4&quot; 130#</td>
</tr>
<tr>
<td>1 Transmitter BC-655 (Target)</td>
<td>40&quot; 19&quot; 27 1/2&quot; 500#</td>
</tr>
<tr>
<td>1 Power Unit PE-75 or PE-2111</td>
<td>64&quot; 90&quot; 84&quot; 625#</td>
</tr>
<tr>
<td>1 Shelter HD-34</td>
<td>7 3/4&quot; 6 1/2&quot; 6&quot; 5.5#</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 1,035# (APPROXIMATELY)

**COMBINED VOLUME OF COMPONENTS:** 311 Cu. Ft. (Approx.)

**SHIP Tonnage:** 1,035 Aird. Transportable 1 Ton when Export Packed

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**THIS SHEET IS CLASSIFIED: RESTRICTED**

**PAGE 109**
PART A - TECHNICAL CHARACTERISTICS
(Classification: Restricted)

FREQUENCY RANGE: (MHz) The Control Set SCR-642 is an operations block of a fighter control system and contains no radio equipment.
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: None
TUNING: (NO OR XTAL) None
SENSITIVITY: SELECTIVITY: POWER SOURCE: Power Unit PE-99 (3/24 V KA 110V 3 PHASE 60 CYCLE) also has provisions for using commercial power from a 110V 2 wire service.
SIMILAR SETS: Control Set SCR-572.
POWER OUTPUTS (Watts):
TUBES: (Type and Number) 3-RC-687; 12-25L6.

PART B - TACTICAL CHARACTERISTICS
(Classification: Restricted)

USE: Control Set used as an operations block which provides the necessary control equipment and auxiliaries to permit simultaneous operations of up to two (2) aircraft Squadrons for ground control of interceptors pursuit operations.

RANGE (MILES): Minimum of 150 MILES WITH AIRCRAFT AT 10,000 FT.
TO COMMUNICATE WITH: Radio Set SCR-573 or SCR-642, SCR-575, or SCR-577. By telephone and by radio with fighter aircraft equipped with SCR-572.

TO REPLACE IN PART:
TRANSPORTATION:

TYPE OF SIGNAL:

PART C - PRINCIPAL COMPONENTS
(Classification: Restricted)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Control Units RM-25 Each</td>
<td>11 1/4&quot; x 8</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>2 Control Units RM-25 Each</td>
<td>11 1/2&quot; x 7</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>1 Control Unit RM-26</td>
<td>12 1/4&quot; x 24</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>3 Switchboards BD-72 Each</td>
<td>12 1/2&quot; x 11 1/2&quot;</td>
<td>470</td>
<td></td>
</tr>
<tr>
<td>20 Telephone Repeaters EE-99</td>
<td>9&quot; x 12 1/2&quot;</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>3 Relay Unit BD-607</td>
<td>11 1/4&quot; x 8</td>
<td>260</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 6,000 LBS
COMBINED VOLUME: 200 cu. ft.

SHIP Tonnage: 2 T
## SCR-643

### Nomenclature Designation

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 100-156 MHz
- **NUMBER OF CRYSTALS:** 2
- **PRESET FREQUENCIES:** 2
- **Sensitivity:**
  - **Power Source:** Power Unit PE-25 (12 V DC, 110 V AC;
    - **Sensitivity:**
  - **Power Outputs:** 50 watts
- **Tubes:** (Type and Number)
  - 16-623
  - 16-625
  - 16-619
  - 16-501
  - 16-391
  - 16-562
  - 16-504

### Part B - Tactical Characteristics

- **USE:** Two-channel trans. station for the ground control of interceptor pursuit operation. Part of Control Net System SC-35-3.
- **RANGE:** Minimum of 135 miles with aircraft at 10,000 ft.
- **TO COMMUNICATE WITH:** Control Set SCR-57 or SCR-642, Radio Set SCR-575 or SCR-564.
- **TO REPLACE IN PART:**
  - **TRANSPORTATION:**
  - **TYPE OF SIGNAL:** Transmit voice and M/N.

### Part C - Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Trans, BC-640</td>
<td>72&quot; x 21&quot; x 20&quot;</td>
<td>515 lbs</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Control Unit RM-27</td>
<td>11 3/8 x 19 x 10 1/2</td>
<td>29 lbs</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Antenna AN-86</td>
<td>12 x 28 x 38</td>
<td>4 lbs</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 3,000 lbs approx.

**Combined Volume:** 1,500 cu. ft. approx.

**Ship Tonnage:** 1 1/2 t approx.

---

SCR-644

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE (MHz): 100-156

NUMBER OF CRYSTALS: 2 in use (full complement to be determined byAAF).

PRESET FREQUENCIES: Variable (dial setting checked with crystal controlled frequency meter.)

ANTENNA: Vertical dipole mounted on 76 ft mast.

TUNING (no or Xtal):
Sensitivity: 2-3 ohms/meter at 50 MHz signal ratio 10 to 1.
Selectivity: 2 times down less 100 kc, 1000 times down more 350 kc.

POWER SOURCE: Power unit PC-29 (75 kVA 110 V 3
Phase 60 Hz) also see power for use of commercial power from a 110 V 2 wire service.

SIMILAR SETS: Receiver station of SCR-547.

POWER OUTPUT (Watts): Receiver BC-659 1 watt

TUBES: (Type and Number) BC-638 1-6Bq; 1-5902; 2-9003; 1-6AY5; 1-6A56; 1-605; 2-6568 1-5C02; 2-9003 1-6E47; 1-6568; 1-6567; 1-6568; 2C-656 1-5C56; RA-421 1-544b.

PART B - TACTICAL CHARACTERISTICS

USE: Two channel receiver station for ground control of interceptor pursuit operations. Part of control net system 603-3.

RANGE: (Miles) Minimum 135 miles with aircraft at 10,000 ft.

TO COMMUNICATE WITH: Control set SCR-572 or SCR-652, radio set SCR-735 or SCR-665, by telephone and by radio with aircraft equipped with SCR-582.

TO REPLACE IN PARTS:

TRANSPORTATION:

TYPE OF SIGNAL: Receiver voice, tone modulated and CW.

PART C - PRINCIPAL COMPONENTS

ITEM
2 RECEIVERS BC-659 EACH
2 RECTIFIERS RA-42 EACH
1 FREQUENCY METER BC-658
1 CONTROL UNITS RM-18 EACH
2 AMPLIFIER BC-656
1 FUSE PANEL FN-15
1 FUSE PANEL PN-5
2 FRAME FN-35 EACH
1 Antenna AN-66
2 ANTENNA EQUIPMENT RS-81

DIMENSIONS

HEIGHT

10 1/2" 19" 13 1/2" 36 RESTRICTED

WIDTH

19 19 8 1/2 66 RESTRICTED

DEPTH

19 7 35 RESTRICTED

WEIGHT

16 35 RESTRICTED

CLASSIFICATION

36 RESTRICTED

2 1/2 19 5 24 RESTRICTED

4 3/8 15 RESTRICTED

3 121 RESTRICTED

3 7/8 15 RESTRICTED

5 8 3/4 16 RESTRICTED

12 11 36 RESTRICTED

8 24 RESTRICTED

COMBINED WEIGHT OF COMPONENTS:

2,500 lbs APPROX.

COMBINED VOLUME:

700 cu. ft APPROX.

SHIP Tonnage:

1 1/4 T APPROX.
**SCR-645**

**Nomenclature Designation**

**Note:** See individual sections for section classification.

**Status:**

**Institutional Literature:**

---

**Part A - Technical Characteristics**

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Number of Crystals</th>
<th>Preset Frequencies</th>
<th>Antenna</th>
<th>Tuning</th>
<th>Sensitivity</th>
<th>Selectivity</th>
<th>Power Source</th>
<th>Power Output</th>
<th>Similar Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>(MHz) 100-156</td>
<td>1/4 in BC-626; 1/4 in BC-625; 1/4 in BC-635</td>
<td>4 each receiving and transmitting</td>
<td>Rotatable. 400 ohm D/F with siren facilities.</td>
<td>(MD or XTAL) XTAL on communications rat. Variable on D/F receiver.</td>
<td>2-3 microvolts/meter</td>
<td>2 times more than 100 Kc.</td>
<td>1000 times more than 350 Kc.</td>
<td>Power unit PE-99 and storage batteries</td>
<td>Power output: 5 watts maximum</td>
</tr>
</tbody>
</table>

**Part B - Tactical Characteristics**

<table>
<thead>
<tr>
<th>Use</th>
<th>Range (miles)</th>
<th>Communication</th>
<th>Transportation</th>
<th>Type of Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile direction finding station for ground control of interceptors.</td>
<td>Minimum of 135 miles with aircraft at 10,000 ft.</td>
<td>Control set SCR-572 on SCR-622, radio set SCR-573 on SCR-623 by telephone or radio with fighter aircraft equipped with SCR-572.</td>
<td>Fired.</td>
<td>Receiver voice, tone modulated, and CW</td>
</tr>
</tbody>
</table>

**Part C - Principal Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight (lbs)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Receivers BC-639 each</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Rectifiers NA-62 each</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Frequency Meter BC-638</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Receiver BC-626</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Transmitter BC-625</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Antenna Equipment AE-153</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Oscillator Test Equipment RO-95</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Dynamotor Unit PE-96</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Fuse Panel PH-5</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Dynamotor Unit PE-100</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Control Panel PE-29</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Relay Unit RO-807</td>
<td>10 1/2” x 15 1/2” x 19”</td>
<td>316</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 21,000 lbs.

**Combined Volume of Components:** 4,200 cu. ft., approx.

**Ship Tonnage:** 12 tons.

---

**This Sheet is Classified:** Restricted

---

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SCR-694

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 3.5 - 6.5
NUMBER OF CRYSTALS: 2
PRESET FREQUENCY: 2
ANTENNA: 15 ft whip AN-125, 12 ft.
TUNING: (MO OR XTAL) BOTH
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 6 or 12 V vehicle battery with vibrator unit PE-257, mains generator GM-57
POWER OUTPUT: (Watts) vehicle operation A1-25, A5-7; field operation A1-20, A5-5.

PART B - TACTICAL CHARACTERISTICS

USE: INFANTRY; PARACHUTE; MOUNTAIN & AIRBORNE TROOPS.

RANGE: (MILES) STATIONARY GM-30; VOICE-15;
MOVING GM-15; VOICE-7.

TO COMMUNICATE WITH: SCR-284; SCR-511; SCR-356.

TO REPLACE IN PART: SCR-284.

TRANSPORTATION: VEHICLE OR MAN POWER.

TYPE OF SIGNAL: CB; VOICE (AM).

PART C - PRINCIPAL COMPONENTS

ITEM

DIMENSIONS

WEIGHT

CLASSIFICATION

TRANS. & RECV. 5C-1306
VIBRATOR UNIT PE-257
GENERATOR GM-57

14 1/2" 9" 4 - 5" 27# (RECV. & TRANS. ONLY)

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP TONNAGE:
SCR-704

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION

FREQUENCY RANGE: 1.25 - 30
NUMBER OF CRYSTALS: HAS CRYSTAL FILTER
RESET FREQUENCIES: NONE
ANTENNA:
TUNING: (AO OR XTAL) DOES NOT APPLY
SENSITIVITY: 1 MICROVOLT INPUT TO RECEIVER.
SELECTIVITY: VARIABLE
POWER SOURCE: 115/230 VOLT 50 - 60 CYCLES AC
SIMILAR SETS: SCR-25A
POWER OUTPUT: (WATTS) DOES NOT APPLY.
TUBES: (TYPE AND NUMBER) 1 VT-66; 3 VT-36; 3 VT-06;
1 VT-97; 2 VT-90; 1 VT-91; 1 VT-96; 1 VT-116;
3 VT-117.

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION

USE: INTERCEPT RECEIVER FOR COMMUNICATION AND MONITORING PURPOSES.
RANGE: DOES NOT APPLY.
TO COMMUNICATE WITH:
TO REPLACE IN PART:
TRANSPORTATION: IN VEHICLE OR PLANE.
TYPE OF SIGNAL: AM & CW.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION

ITEM

RADIO RECEIVER: 80-79%
POWER SUPPLY UNIT: 90%

DIMENSIONS

HEIGHT 20.25" 3.25" 16.5"
WIDTH 23" 1.5" 8.5"
DEPTH 20.25" 1.5" 8.5"

WEIGHT 70#
CLASSIFICATION

COMBINED WEIGHT OF COMPONENTS: 109#
COMBINED VOLUME OF COMPONENTS:
SHIP TONNAGE:

PAGE 116

THIS SHEET IS CLASSIFIED: UNCLASSIFIED
PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: (MC) 3.6 - 6 (RECEIVER ONLY)
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: LONG WIRE
TUNING: (MO OR XTAL)
SENSITIVITY: SELECTIVITY
POWER SOURCE: 12 V VEHICLE BATTERY OR HAND GENERATOR.
SIMILAR SETS:
POWER OUTPUT: (Watts)
TUBES: (TYPE AND NUMBER)

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: INFANTRY PARACHUTE AIRBORNE TROOPS.
RANGE (MILES)
TO COMMUNICATE WITH:
TO REPLACE IN PART:
TRANSPORTATION: VEHICLE OR MAN PACK
TYPE OF SIGNAL: OR1 VOICE (AM)

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver, BC-1137-A</td>
<td>1 1/4&quot; 2&quot; 3&quot;</td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>Mounting FT-562</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NO MILITARY REQUIREMENT ADVANCED FOR THIS SET. RECEIVER IS SAME AS USED IN DEVELOPMENT MODEL OF RADIO SET SCR-696, AND WAS PRODUCED IN SMALL QUANTITY FOR SPECIAL PURPOSE AS RADIO SET SCR-714-AB.
SCR-808

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (M) 27.0 - 38.9 MHz.
NUMBER OF CRYSTALS: 21 (PER RECV.), 27 (PER TRAN.).
PRESET FREQUENCIES: ANY OF 120 AVAILABLE.
ANTENNA: SECTIONAL MAST TYPE, VEHICULAR.
TUNING: (NO OR XTAL) NO

SENSITIVITY: SELECTIVITY:
POWER SOURCE: VEHICULAR BATTERY 12 or 24 V.
SIMILAR SETS: SCR-706; SCR-828.
POWER OUTPUT: (Watts) 35

TUBES: (TYPE AND NUMBER) 9T-925 - 20 VALVES
1 Type 6AC7; 2 Type 6G7; 3 Type 12BD7
2 Type 68LD7; 4 Type 12BD7; 2 Type 68LD7; 4 Type 6L7CD; 2 Type 6V6GD; 2 Type 12BD7; 2 Type 68LD7;
1 Type 6L7; 1 Type 6G7; 3 Type 515

PART B - TACTICAL CHARACTERISTICS

USE: COMPANY AND HIGHER COMMANDS, TANK DESTROYER COMMAND, FIELD ARTILLERY.

RANGE: (MILES) 10 MILES IN OPEN VEHICLE MOVING; 5-7 MILES IN TANKS MOVING.
TO COMMUNICATE WITH: SCR-606; SCR-609; SCR-610; SCR-628; 10 CHANNELS TO BE COMMON WITH
SCR-505; SCR-509; SCR-510.
TO REPLACE IN PARTS: SCR-606.

TRANSPORTATION: MOTOR VEHICLE IN WHICH IT IS INSTALLED.

TYPE OF SIGNAL: FM VOICE ONLY.

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Radio Trans., BC-924</td>
<td>14 1/2&quot;</td>
<td>34&quot;</td>
<td>14&quot;</td>
</tr>
<tr>
<td>2 Radio Recv., BC-923</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Mounting FT-237</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 225 lbs.

COMBINED VOLUME: 14 1/2" x 34" x 14"
RADIO DIRECTION FINDER CENTRAL TC-8.

EQUIPMENT CONTAINED IN 2 SHELTERS NO-27 EACH CARRIED BY CARGO TRUCK, 2 1/2 TON 6X6 FOR PURPOSE OF COORDINATION AND PLOTTING INFORMATION RECEIVED BY RADIO AND WIRE FROM DIRECTION FINDER STATIONS.

INCLUDES RADIO RECEIVING APPARATUS, TELEPHONE SWITCHBOARD, PLOTTING BOARD, AND INTERCOMMUNICATION AND MONITORING SYSTEM.

RADIO DIRECTION FINDERS ARE NOT INCLUDED WITH THIS CENTRAL BUT ARE USED WITH IT.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHELTERS (2 EACH) NO-27</td>
<td>66.5&quot; x 74&quot; x 196&quot;</td>
<td>1750 #</td>
<td></td>
</tr>
<tr>
<td>RECEIVER BC-304 (2 EACH)</td>
<td>9.75&quot; x 18&quot; x 9&quot;</td>
<td>1.6 #</td>
<td></td>
</tr>
<tr>
<td>RECEIVER BC-364 (1 EACH)</td>
<td>9.75&quot; x 18&quot; x 9&quot;</td>
<td>1.6 #</td>
<td></td>
</tr>
<tr>
<td>RECEIVER BC-397 (1 EACH)</td>
<td>2.5&quot; x 19&quot;</td>
<td>63 #</td>
<td></td>
</tr>
<tr>
<td>RECEIVER BC-796 (1 EACH)</td>
<td>12.25&quot; x 23&quot; x 16.5&quot;</td>
<td>70 #</td>
<td></td>
</tr>
<tr>
<td>RECEIVER BC-959 (1 EACH)</td>
<td>10&quot; x 19&quot;</td>
<td>80 #</td>
<td></td>
</tr>
<tr>
<td>TAPE RECORDER BC-1016</td>
<td>10.25&quot; x 19.25&quot; x 14.75&quot;</td>
<td>80 #</td>
<td></td>
</tr>
<tr>
<td>VOICE RECORDER (DIOTTAPHONE) TC8-2P</td>
<td>12&quot; x 29&quot; x 14&quot;</td>
<td>90 #</td>
<td></td>
</tr>
<tr>
<td>VOICE REPRODUCER (DIOTTAPHONE) TC8-TU</td>
<td>16&quot; x 14&quot; x 17&quot;</td>
<td>80 #</td>
<td></td>
</tr>
<tr>
<td>SWITCHBOARD NO-72</td>
<td>15.25&quot; x 25.5&quot; x 9.5&quot;</td>
<td>72 #</td>
<td></td>
</tr>
<tr>
<td>INTERCOMMUNICATION SYSTEM RC-236</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RADIO D/F CENTRAL TC-8 SHOWING OPERATING POSITIONS, HOUSED IN SHELTER NO-27.
RADIO INTERCEPT CENTRAL TC-9.
EQUIPMENT CONTAINED IN 3 SHELTERS. HO-27 EACH CARRIED
BY TRUCK, CARGO, 2 1/2 TON 6X6 FOR PURPOSE OF INTER-
CEPTING, RECORDING, INTERPRETING, RADIO COMMUNICATIONS.
CONSISTS OF RADIO RECEIVERS, RECORDER, SWITCHBOARD,
ANTENNA, INTERCOMMUNICATION AND MONITORING SYSTEM.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHELTER HO-27 (3 EACH)</td>
<td>66.5&quot;</td>
<td>76&quot;</td>
<td>158&quot;</td>
<td>1750 #</td>
</tr>
<tr>
<td>RECEIVER 80-312 (5 EACH)</td>
<td>9.75&quot;</td>
<td>8&quot;</td>
<td>9&quot;</td>
<td>46 #</td>
</tr>
<tr>
<td>RECEIVER 80-314 (5 EACH)</td>
<td>9.75&quot;</td>
<td>8&quot;</td>
<td>9&quot;</td>
<td>46 #</td>
</tr>
<tr>
<td>RECEIVER 80-767 (2 EACH)</td>
<td>9.75&quot;</td>
<td>19&quot;</td>
<td>14.25&quot;</td>
<td>65 #</td>
</tr>
<tr>
<td>RECEIVER 80-796 (2 EACH)</td>
<td>12.25&quot;</td>
<td>7.5&quot;</td>
<td>16.5&quot;</td>
<td>70 #</td>
</tr>
<tr>
<td>RECEIVER 80-566 (2 EACH)</td>
<td>10&quot;</td>
<td>19&quot;</td>
<td>19&quot;</td>
<td>80 #</td>
</tr>
<tr>
<td>RECORDER 50-1016 (1 EACH)</td>
<td>10.25&quot;</td>
<td>19.25&quot;</td>
<td>14.75&quot;</td>
<td>80 #</td>
</tr>
<tr>
<td>VOICE REORDER (DICTAPHONE TCB-2P)</td>
<td>12&quot;</td>
<td>29&quot;</td>
<td>16&quot;</td>
<td>90 #</td>
</tr>
<tr>
<td>VOICE REPRODUCER (DICTAPHONE TCB-TU)</td>
<td>12&quot;</td>
<td>18&quot;</td>
<td>17&quot;</td>
<td>80 #</td>
</tr>
<tr>
<td>SWITCHBOARD 80-72</td>
<td>12.5&quot;</td>
<td>25.5&quot;</td>
<td>18.5&quot;</td>
<td>18 #</td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 1750#
COMBINED VOLUME OF COMPONENTS: 148000
<table>
<thead>
<tr>
<th>AIR TRANSPORTABLE SETS</th>
<th>PAGE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCR-578 (SEA RESCUE)</td>
<td>95</td>
</tr>
<tr>
<td>SCR-624 (VERY HIGH FREQUENCY RADIO)</td>
<td>104</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AIRCRAFT RADIO COMMUNICATION SETS</th>
<th>PAGE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCR-183 (HIGH FREQUENCY AIRBORNE COMMAND)</td>
<td>30</td>
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*Intercept Receiver*

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