SIGNAL COMMUNICATION
EQUIPMENT DIRECTORY

RADIO COMMUNICATION EQUIPMENT

WAR DEPARTMENT

TM 11-227

WAR DEPARTMENT TECHNICAL MANUAL

U.S. DEPT. OF ARMY

WAR DEPARTMENT

APRIL 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:

__________________________________________
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.

The Table of Contents in the front of the volume lists all sets by functional groups, showing page numbers; the Index in the back of the volume lists all the sets described in alphabetical and numerical order, showing individual page numbers; and, finally, the pages of the book are assembled so that the nomenclature of the sets runs alphabetically and numerically throughout.

This Manual supercedes 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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**AN/ARA-1**

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<tr>
<td>Number of Crystals</td>
<td>None</td>
</tr>
<tr>
<td>Preset Frequencies</td>
<td>None</td>
</tr>
<tr>
<td>Antenna</td>
<td>Fixed or Rotatable Loop and Remote Antenna</td>
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<tr>
<td>Tuning</td>
<td>(MD or KTAL) Single Control</td>
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<tr>
<td>Sensitivity</td>
<td>Selectivity</td>
</tr>
<tr>
<td>Power Source</td>
<td>28 Volts D.C.</td>
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<tr>
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<td>SCR-106</td>
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<td>Power Output (Watts)</td>
<td>None</td>
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<td>Tubes</td>
<td>1-12AT7, 1-12AT7, 2-12AT7</td>
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**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Used with BO-355-B and/or BO-350 to give aural or visual left-right radio compass operation.
- **Range:** Maximum 500 miles, depending upon transmitter.
- **To Communicate With:**
- **To Replace In Parts:** Any aircraft left-right compass.
- **Transportation:** Airborne.
- **Type of Signal:** CW = MD = Voice.

**PART C - PRINCIPAL COMPONENTS**

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<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Compass Modulator</td>
<td></td>
<td>7.0 lb</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Indicator 1-75-A</td>
<td></td>
<td>1.87 lb</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Indicator 1-65-A</td>
<td></td>
<td>1.75 lb</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Control Box</td>
<td></td>
<td>3.00 lb</td>
<td>UNCLASSIFIED</td>
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</table>

**Combined Weight of Components:** 11.6 lb (Approximate)
**Combined Volume of Components:** 200 Cub. In.
**AN/ARN-5**

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** (5M) 355
- **NUMBER OF CRYSTALS:** None
- **FREQUENCY TUNING RANGES:** One
- **ANTENNA:** AD-27/ARN-5
- **TUNING:** (MO or XTAL)

**PART B - TACTICAL CHARACTERISTICS**

- **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 PARTS:** AN/Arn-5 is a part of a master which replaces SCR-261.

**TRANSPORTATION:** Airborne

**TYPE OF SIGNALS:** MOD, VOICE

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADIO RECEIVER, AN/5/ARN-5, R-47/ARN-5, or R-57/ARN-5</td>
<td><strong>REstricted</strong></td>
<td>6-1/2&quot; x 6&quot; x 8&quot;</td>
<td><strong>0p</strong></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME OF COMPONENTS:**

**SHIP TONNAGE:**

---

**NOTE:** See individual sections for section classification.
AN/ARN-6

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

FREQUENCY RANGE: 100 to 1,750 kHz

NUMBER OF CRYSTALS: 50

PRESET FREQUENCY: INTERNAL LOOP, FIXED OR ROTATABLE, WITH REMOTE INITIATION OF LOOP POSITION. (DUAL REMOTE CONTROL AND ONE SET OF LOCAL CONTROLS.)

TUNING: (NO OR XTAL)

SENSITIVITY: 50 MICROVOLTS/METER, SELECTIVITY 50

POWER SOURCE: 12 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)

TUBE DATA NOT AVAILABLE AT PRESENT.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
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<tr>
<td>1. Radio Compass Unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Radio Control Box</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Loop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Indicators</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No further data on components available at present.

COMBINED WEIGHT OF COMPONENTS: 10 lbs

COMBINED VOLUME OF COMPONENTS: 1500 ft³

SHIP TONNAGE: 500

This sheet is classified: RESTRICTED
### AN/ARN-7 Nomencature Designation

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range**: (MHz) 0.1 - 1.75
- **Number of Crystals**: None
- **Preset Frequencies**: None
- **Antenna**: Loop and Sense Antenna
- **Tuning**: (MD or XTAL) Remote Manual
- **Sensitivity**: 10 microvolts/meter
- **Selectivity**: 10 times resonant input for 6.3kc
- **Power Source**: 110 V, 600 cycles A-C
- **Similar Sets**: SCR-269 (Interchangeable by Components)
- **Power Output**: (Watts)
  - 2 = VT - 66 1 VT - 96
  - 1 = VT - 74 1 VT - 96
  - 4 = VT - 96 1 VT - 105
  - 1 = VT - 87 2 VT - 109
  - 2 = VT - 95

**PART B - TACTICAL CHARACTERISTICS**

- **Use**: Airborne automatic direction-finder, gives automatic bearing indication of the direction of arrival of radio frequency energy. Also aural reception of CW, MIW, or voice on loop or antenna.
- **Range**: Accurate bearings to about 100 miles daytime, subject to night effect errors.
- **To Communicate With**:
- **To Replace In Part**: SCR-269
- **Transportation**: Airborne
- **Type of Signal**: CW, MIW, 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><strong>1 Radio Compass Unit</strong></td>
<td>7 7/8&quot; x 12&quot; x 19 3/16&quot;</td>
<td>3.76 lbs</td>
<td>Restricted</td>
</tr>
<tr>
<td><strong>2 Radio Control Box</strong></td>
<td>7 1/2&quot; x 7 1/2&quot; x 3 15/16&quot;</td>
<td>3.76 lbs</td>
<td>Restricted</td>
</tr>
<tr>
<td><strong>1 Loop LP-21</strong></td>
<td>25 5/8&quot; x 14 31/32&quot; x 9&quot;</td>
<td>10.57 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td><strong>1 Indicator 1-61</strong></td>
<td>3 1/4&quot; x 3 1/4&quot; x 3 11/16&quot;</td>
<td>7.75 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td><strong>1 Indicator 1-62</strong></td>
<td>5 1/8&quot; x 5 1/8&quot; x 4 53/64&quot;</td>
<td>1.12 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td><strong>1 Relay RK-22</strong></td>
<td>11 3/4&quot; x 7&quot; x 3&quot;</td>
<td>6.40 lbs</td>
<td>Unclassified</td>
</tr>
</tbody>
</table>

**Combined Weight of Components**: 75 lbs

**Combined Volume of Components**: 515 cu. in.

**Ship Tonnage**: 0.0256T
AN/CRN-1

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

FREQUENCY RANGE: (MHz) 1.25 - 1.70
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: Telescoping whip
TUNING: (MO or XTAL) No
Sensitivity: None
SELECTIVITY: None
POWER SOURCE: Batteries
SIMILAR SETS: None
POWER OUTPUT (Watts) Less than one
TUBES (Type and Number) 2 - 6G87T

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

USE: Used dropped into the sea from a aircraft, automatically transmits a signal for
homers by means of Radio Coupled SCR-269.
RANGE: 50 miles over sea water,
TO COMMUNICATE WITH: SCR-269
TO REPLACE IN PART:
TRANSPORTATION: Air
TYPE OF SIGNALS: C, W.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM

Radio Transmitter T-2/CRN-1
Battery DA-201/CRN-1

DIMENSIONS

Height 4" Width 8" Depth

WEIGHT

Combined Weight of Components: 35 lbs
Combined Volume of Components: 1.5 cu. ft.

CLASSIFICATION

Restricted

Dimensions:

1.25 - 1.70 MHz
Less than one Watt

35 lbs

1.5 cu. ft.
### Part A - Technical Characteristics

- **Frequency Range**: 330 to 350 MHz
- **Number of Crystals**: 1
- **Preset Frequencies**: 335 MHz
- **Antenna**: Folded dipoles
- **Tuning**: (MD or XTAL) XTAL
- **Sensitivity**: SENSITIVITY
- **Power Source**: DC-125 Motor Generator (115 V, 60 Hertz)
- **Power Outputs**: (Watts) 25 watts of DC power
- **Tubes** (Type and Number):
  - 1-6J7: 1-6248
  - 12AT7: 1-426A
  - 12AF7: 1-150B
  - 12AV7: 1-6613
  - 12AK7: 1-6970
  - 1-3000: 1-6970

### Part B - Tactical Characteristics

- **Use**: In a glide path transmitter which gives the angle of approach. This is indicated on a horizontal pointer contained in the APR-4, Instrument Landing Receiving Equipment.
- **Range**: 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 beam NAC-S system.

### 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>Height</td>
<td>Width</td>
<td>Depth</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**Note**: Not yet definitely determined.

**Combined Weight of Components**: 

**Combined Volume**: 

**Ship Tonnage**: 

**Radio Set AN/ARN-5 Operational Equipment**: Set up for Instrument Landing Equipment.
PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

FREQUENCY RANGE: (100.8-110.3 MHz)
NUMBER OF CRYSTALS: 76 to 158
PRESET FREQUENCIES: 106.5, 106.7, 109.5, 109.7, 110.5
ANTENNA: 5 Alasor loops in same horizontal plane.
TUNING: (ID or XTAL) XTAL
SENSITIVITY: SELECTIVITY
POWER SOURCE: Power Unit PE-141 or 110VAC, 60 HZ

SIMILAR SETS: AN/MSS-1
POWER OUTPUT: (Watts) 25

TUBES (Type and Number):
(1) DC-752 Traveled 4-6076
(1) DC-752-1 6076
(1) DC-752-1 (Fixed)
(1) DC-752-1 (Portable)
FIELD INTENSITY METER 80-777
INDICATOR 80-777 (Alarms)

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

USES: Guides localizer transmitter to provide azimuth guidance of aircraft for glide approach or instrument landing. This set can be used for air transport instead of installed in Truck K-55.

RANGE: 75 Miles

TO COMMUNICATE WITH: NC-105

TO REPLACE IN PARTS: Army A-5 Instrument Landing System

TRANSPORTATION: Air

TYPE OF SIGNAL: CW, WNR, Voice.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
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<tr>
<td>HEIGHT</td>
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<tr>
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<td>Localizer Transmitter Equipment Consists of:</td>
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<tr>
<td>Control Box BO-915</td>
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<td>Radio Transmitter BO-753</td>
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<td>Modulator &amp; Bridge BO-752</td>
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<td>Antenna Equipment KNO-109</td>
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<td>Return Set SCR-650</td>
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<td>Heater 521</td>
<td>500</td>
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<tr>
<td>Crystal Unit DC-6</td>
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<td>Voltmeter 19-175 (Grounded R.F.)</td>
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<td>Combined Volume of Components</td>
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</table>
# AN/CRN-5

## A. Technical Characteristics

- **Frequency Range:** (MHz) 100 - 156 tunes over 5 MHz bands.
- **Number of Crystals:** Under development.
- **Present Frequencies:** Not yet determined.
- **Antenna:** Vertically Polarized.
- **Tuning:** (no or KXAL) KXAL
- **Sensitivity:** Selectivity
- **Power Source:** 115 VOLT 60 CYCLE D.C. POWER. GENERATOR CAPACITY 2 KVA-AC AND 6 VOLT 20 AMP. 60
- **Similar Sets:** AN/CRN-5
- **Power Output:** (watts) 25 Watts
  - (AN-111-1) Radio Transmitter 100 Watts Barrier & 50 Watts Side Band
- **Tubes:** (Type and Numbers)
  - 1-6657
  - 1-6974
  - 2-6657
  - 2-6974
  - 3-6915
  - 1-1590
  - 1-6507
  - 1-607

## B. Tactical Characteristics

- **Use:** Portable U.H.F. Radio for course aural, periodic quadrant identification, and simultaneous phone transmission.
- **Panel:** (Wires) 60
- **To Communicate With:** SCR-522
- **To Replace In:** SCR-227
- **Transportation:** Air
- **Type of Signal:** CW, NMD, and voice.

## C. Principal Components

### Dimensions

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

**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**
### Part A - Technical Characteristics

**Frequency Range:** 0.2 - 0.3 MHz

**Number of Crystals:** Per special order.

**Preset Frequencies:** None

**Antenna:** Special - 200 MHz, 7 MHz or less.

**Tuning:** (MO or XTAL) XTAL

**Sensitivity/Selectivity:**

- **Power Source:** Power Unit PE-75 or 110 volts
- **50 - 60 cycles, 300 volts** capacitor

**Similar Sets:** None

**Power Outputs (Watts):** 50

**Tubes (Type and Number):**
- VT-11/6 (143)
- VT-96 (2)
- VT-100 (2)

### Part D - Principal Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Height</th>
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<td>25°</td>
<td>16°</td>
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<td>Power Unit PE-75</td>
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<td>39°</td>
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**Combined Weight of Components:** About 500 lbs, complete

**Combined Volume of Components:**

**Ship Tonnage:**

---

This sheet is classified: **RESTRICTED**

Page 9
**AN-MRN-I**

**Nomenclature Designation**

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

**STATUS:**

**STANDARD:**

**CHANGE IN STATUS:**

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION:** RESTRIC TED

- **USE:** Transmits and receives a localized beam for use in airport or instrument landing systems.
- **Range:** (miles) 10 at 2500 ft., 70 at 6000 ft., 100 at 10,000 ft.
- **To Communicate With:** NC-103
- **To Replace In:** AN-36/1
- **Transportation:** Truck
- **Type Of Signal:** CB and CW, and voice.

---

**PART C - PRINCIPAL COMPONENTS**

**CLASSIFICATION:** RESTRICTED

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<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
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</table>

**SHIP TONNAGE:**

**Original from UNIVERSITY OF CALIFORNIA**
**AN/MRN-2**

### Part A - Technical Characteristics

**Classification:** Restricted

- **Frequency Range:** (MD) 100 - 156 MHz, tuned over 3 MHz band.
- **Number of Crystals:** Under development.
- **Preset Frequencies:** Not yet determined.
- **Antenna:** Vertically polarized.
- **Tuning:** (MD or KTAL) KTAL

**Sensitivity:**

**Selectivity:**

**Power Source:** 115 volt 60 cycle single phase, generator capacity 2 kVA-AC and 6 volt 20 amp, DC.

**Similar Sets:** AN/MRN-5

**Power Output:** (Watts) Come of Silence 25 watts (ARL-177-1) Radio Transmitter, 100 watts Carrier & 50 watts Side Band ARL - 119.

**Tubes:**

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<tr>
<th>Type and Number</th>
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<th>1-6QL47</th>
<th>2-B29</th>
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<td>1-6QL6</td>
<td>2-635V</td>
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<td>3-6PL6</td>
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<td>6-6S6</td>
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<td></td>
<td>6-6G6</td>
<td>1-185</td>
<td>1-6150</td>
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<td>2-857V</td>
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<td>1-631</td>
<td>4-607</td>
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### Part B - Tactical Characteristics

**Classification:** Restricted

**Use:** Portable U.H.F. Radio with up to five aerials, radio range with station identification, periodic squawk identification, and simultaneous phone transmission.

**Range:** (Miles) 50

**To Communicate With:** SCR-522

**To Replace In Part:** SCR-277

**Transportation:** Truck

**Type of Signal:** CB, NCB, and Voice.

### Part C - Principal Components

**Classification:** Restricted

<table>
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<tr>
<th>Item</th>
<th>Dimensions</th>
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<tbody>
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**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**

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This sheet is classified: Restricted

Page 11
AN/MRN-3
NOMENCLATURE
DESIGNATION

PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: 110 V.
NUMBER OF CRYSTALS: 50 - 60 CYCLES A.C.
PRESET FREQUENCIES: 1 TWO CRYSTALS
ANTENNA: ONE HORIZONTAL DISPOLE
TUNING: (NO OR XTAL): NO
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 110 V.
SIMILAR SETS:
POWER OUTPUT: (Batts): ONE
TUBES: (TYPE AND NUMBER) RO-115 169; 1-27-75 1621;
2-27-159 1630; 1-27-160 1620; 2-27-155 1621;
1 VT-H 1625; 2 VT-H 1620; 1 VT-H 1620; 1 VT-H 1620;
1 VT-071 1620; 1 VT-071 1620; 1 VT-071 1620;
1 VT-117 1620; 1 VT-030 1 VT-1000;

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: TRANSMITS VERTICAL PATTERN TO BE RECEIVED
BY RO-59, RO-415, RO-155, MARKING REFERENCE
POINTE IN INSTRUMENT LANDING SYSTEM

RANGE: 10,000 FEET, OVERHEAD.
TO COMMUNICATE WITH: RO-59, RO-415, RO-155, RO-1552
TO REPLACE IN PART: BO-502.
TRANSPORTATION: JEEP.
TYPE OF SIGNAL: CW.

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

ITEM DESCRIPTION
WATER BEACON TRANSMITTING EQUIPMENT RO-115
POWER UNIT PE-60 OR POWER UNIT PE-214 A
RADIO SET BD-610
1/4-Ton 4x4 TRUCK (*JEEP*)

DIMENSIONS
WEIGHT CLASSIFICATION
HEIGHT WIDTH DEPTH
16" 12" 20" 57# UNCLASSIFIED
4 3# RESTRICTED
12# UNCLASSIFIED
22# UNCLASSIFIED
4# UNCLASSIFIED

COMBINED WEIGHT OF COMPONENTS: 290# PLUS JEEP.
COMBINED VOLUME OF COMPONENTS: 
SHIP Tonnage:
AN/TRA-1

Part A - Technical Characteristics

Frequency Range: (MHz) 70 - 100

Number of Crystals: None

Preset Frequencies: None

Antenna: 3 element parasitic beam.

Tuning: (No or XTAL)

Sensitivity: Selectivity

Power Source: Power Supply PP-13/TRA-1

Similar Sets: None

Power Output: (Watts) 250

Tubes: (Type and Number) 2 6K-257-B

Part B - Tactical Characteristics

Use: Army Ground Forces; Army Service Forces.

Range: Minimum 25 miles, maximum depending on terrain.

To communicate with: AN/TRC-1, AN/TRA-1, AN/TRA-4.

To replace in part: None

Transportation: Vehicular

Type of Signal: FM

Part C - Principal Components

+-----------------+-----------------+-----------------+-----------------+-----------------+
<table>
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<tr>
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<th>Weight</th>
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+-----------------+-----------------+--------+-------+-------+--------+----------------|
| Amplifier AM-8/TRA-1 | UNCLASSIFIED    |        |       |       |        | UNCLASSIFIED   |
| Power Supply PP-13/TRA-1 |                |        |       |       |        |                |
| Spare Parts Kit MK-11/TRA-1 |                |        |       |       |        |                |
| For Antenna Equipment see Radio Sets TRC-1, TRC-3 and TRC-4. |    |        |       |       |        |                |
| Combined Weight of Components: |                |        |       |       |        |                |
| Combined Volume of Components: |                |        |       |       |        |                |
| Ship Tonnage: |                |        |       |       |        |                |
+-----------------+-----------------+--------+-------+-------+--------+----------------|

Radio Set AN/TRA-1 is a 250-watt RF amplifier equipment for use in connection with the radio terminal set AN/TRC-3, a radio relay set AN/TRC-4, and radio set AN/TRC-1 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-4, and radio set AN/TRC-1.
AN/TRC-1

PART A - TECHNICAL CHARACTERISTICS
(Classification: Restricted)

FREQUENCY RANGE: (ID) 70 - 100
NUMBER OF CRYSTALS: Bank of 16 per set
PRESENT FREQUENCY: 96
ANTENNA: 3 element horizontal on 60 ft. mast,
TUNING: (NO OR XTAL) XTAL
SENSITIVITY: SELECTIVITY:
POWER SOURCES: 115/230 V, A.C., 50/60 CYCLES,
SIMILAR SETS: AN/TRA-3, AN/TRA-4
SINGLE PHASE
POWER OUTPUTS (WATTS): 30 ON VOICE
TUNER: (TYPE AND NUMBER)
TYPE: T-15/TRC-1
RECEIPT: R-19/TRC-1

PART B - TACTICAL CHARACTERISTICS
(Classification: Restricted)

USE: Air Forces, Signal Corps.

RANGE: (MILES) 25

TO COMMUNICATE WITH: AN/TRG-1

TO REPLACE IN PARTS: F.M. Link Co., Commercial

TRANSPORTATION: VEHICLE

TYPE OF SIGNAL: F.M.,

PART C - PRINCIPAL COMPONENTS
(Classification: Restricted)

ITEM | DIMENSIONS | WEIGHT | CLASSIFICATION
--- | --- | --- | ---
Trans. T-15/TRC-1 | See Remarks | Restricted
Receiver R-19/TRC-1 | See Remarks | Restricted
Power Unit PE-75 | Unclassified | Unclassified
Antenna AB-19/TRC-1 | Restricted

Combined Weight of Components: Restricted
Combined Volume of Components: Restricted

This sheet is classified: Restricted.
AN/TRC-2

PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: (AM) 2-6.5 (60-1306-3.5-6.5); RT-12/TRC-2 (1-3.5)
NUMBER OF CRYSTALS: 6 PER SET
RESET FREQUENCIES:
ANTENNA: A CHOICE 2 INVERTED L TYPE WITH COUNTERPOISE OR 1/4 WAVE HORIZONTAL
TUNING (MO OR XTAL) MO AND XTAL
SENSITIVITY:
SELECTIVITY:
POWER SOURCE: HAND GENERATOR GH-53 OR POWER UNIT PE-162
SIMILAR SETS: SCR-69
POWER OUTPUT: (WATTS) 50 on A-1; 6 on A-3
TUBE(S) (TYPE AND NUMBER)
A-12
A-1B
A-15
A-22
2-ER105

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: SPECIAL, LONG RANGE, MAN PACK SET FOR DIRECT COMMUNICATION FROM ISOLATED UNITS TO HEADQUARTERS
RANGE: APPROXIMATELY 100 MILES ON CR
COMMUNICATION WITH: SCR-259; SCR-69
TO REPLACE IN PARTS: NONE
TRANSPORTATION: MAN PACK, REQUIRES 12 TO 14 MEN.
TYPE OF SIGNAL: A-1; A-3 (AM)

PART C - PRINCIPAL COMPONENTS
(Classification: RESTRICTED)

ITEM
TRANSM. & REC., RT-12/TRC-2
TRANSM. & REC., 80-1306
HAND GENERATOR GH-53
GASOLINE ENGINE DRIVEN GEN., PE-162

COMBINED WEIGHT OF COMPONENTS:
COMBINED VOLUME OF COMPONENTS:
SHIP Tonnage:

WEIGHT
RESTRUCTED
RESTRUCTED
UNCLASSIFIED
### AN/TRC-3 Nomenclature Designation

#### Part A - Technical Characteristics
- **Classification**: Restricted
- **Frequency Range**: (Mc) 70-100 megacycles (500 channels)
- **Number of crystals**: 964 (bank of 900 plus 64 crystals on 16 basic frequencies)
- **Preset frequencies**: One.
- **Antenna**: 3-element horizontal array.
- **Tuning**: (MD or XTA) XTA (receiver and transmitter)
- **Sensitivity**: Selectivity
- **Power source**: 115 volt AC, 60 cycle, single phase (Power Unit PE-75)
- **Similar Sets**: AN/TRC-1a, AN/TRC-4
- **Power output (watts)**: 50
- **Tubes** (Type and number): 5-6A6T, 3-63AT/6ST, 2-6G6T, 1-6AS6T

#### Part B - Tactical Characteristics
- **Classification**: Restricted
- **Use**: Army Ground Forces, Army Service Forces
- **Range**: 25-33 miles, or more according to terrain and use of amplifier equipment AN/TRA-1.
- **To communicate with**: AN/TRC-1, AN/TRC-4, and F.M. Link Models M100, M109.
- **To replace in part 1**: Non
- **Transportation**: Vehicular
- **Type of signal**: A-3 (F.M.)

#### 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 Transmitter T-14/TRO-1</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Receiver A-19/TRO-1</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>3 Antenna System A3-19/TRO-1</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>4 Power Unit PE-75</td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Maintenance Equipment AN-5/TRO-3</td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined weight of components:**

**Combined volume of components:**

**Ship tonnage:**

---

The two radio receivers, R-19/TRO-1 and transmitters, T-14/TRO-1, in chests as pictured below, are proper components for radio set AN/TRC-3, but the cordless shown is not that used to perform the functions of AN/TRC-3. Radio terminal set AN/TRC-3 is used with and connections are normally made to, carrier telephone terminal equipment TO-21, and/or carrier telegraph terminal equipment TO-32 for multi-channel carrier communication systems.
### PART A - TECHNICAL CHARACTERISTICS

**Classification**: Restricted

- **Frequency Range**: (Me) 70-100 (100 Channels)
- **Number of Crystals**: 96 with set, 24 "Basic" frequencies. For additional crystals, see Case CTRC-1, containing 300 crystals. (Part of Radio Terminal Set AN/TC-3)
- **Preset Frequencies**: One

**Antenna**: 3 element horizontal array.

**Tuning**: (MO or XTAL) XTAL (receiver & transmitter)

**Sensitivity**: SELECTIVITY

**Power Source**: 115 Volt AC 60 cycle, single phase (Power Unit PE-75)

**Similar Sets**: AN/TRC-1, AN/TRC-3

**Power Outputs (Watts)**: 50

**Tuners (Type and Number)**: 10-6497, 4-5684, 10-6507, 2-6507, 2-6529

### PART B - TACTICAL CHARACTERISTICS

**Classification**: Restricted

**Use**:

- **Range**: 25-50 miles (or more according to terrain and use of ampl. AN/TRA-1)

**To Communicate With**: AN/TRC-1, AN/TRC-3 (and F.M. Link Type 1296 or 1505)

**To Replace in Parts**: None

**Transportation**: Vehicular

**Type of Signal**: A-3 (FM)

### PART C - PRINCIPAL COMPONENTS

**Classification**: Restricted

<table>
<thead>
<tr>
<th>ITEM</th>
<th>WEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Transmitter T-110/TRC-1</td>
<td>Restricted</td>
<td>Restricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>3 Receiver R-15/TC-1</td>
<td>Restricted</td>
<td>Restricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>Antenna System AS-15/TC-1</td>
<td>Restricted</td>
<td>Restricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>3 Power Unit PE-75</td>
<td>Restricted</td>
<td>Restricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>Maintenance Equipment MK-6/TRC-4</td>
<td>Restricted</td>
<td>Restricted</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components**: Restricted

**Combined Volume of Components**: Restricted

**Ship Tonnage**: Restricted

---

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

**Nomenclature Designation**: AN/TRC-4

---

**Page**: 17
## RC-39

### Part A - Technical Characteristics

**Classification:**
- Frequency Range: 62 to 80 MHz
- Number of Cylinders: None
- Pre-set Frequencies: 75 MHz
- 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:**
- RC-49

**Power Outputs (Watts):**
- Tubs: (Type and Number)
  - (1) VT-72
  - (1) VT-104

### Part B - Tactical Characteristics

**Use:**
- To receive 75 MHz Marker Beacon signals

**Range:**
- To communicate with RC-115, AN/ARN-3
- To replace in part RC-36

**Transportation:**
- Airborne

**Type of Signals:**
- M.O.W.

### 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 RC-39a</td>
<td>5 3/8 *</td>
<td>3 7/16 *</td>
<td>2.65 #</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 4.39 #

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

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

- **FREQUENCY RANGE:** (MHz) 62 to 80
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** 75 MHz
- **ANTENNA:** 1/2 wave antenna
- **TUNING (NO XTAL):**
- **SENSITIVITY:** About 2000 microvolts/meter
- **SELECTIVITY:**
- **POWER SOURCES:** 36 volts from aircraft battery and high voltage from radio compass.
- **SIMILAR SETS:** NO-9
- **POWER OUTPUTS (WATTS):** None
- **TUNERS (TYPE AND NUMBER):** (1) VT = 155 (1) VT = 106

### PART B - TACTICAL CHARACTERISTICS

- **USE:** To receive 75 MHz, marker beacon signals.
- **RANGE:**
- **TO COMMUNICATE WITH:** RC-112, AM/MM-3
- **TO REPLACE IN PART:** NO-20
- **TRANSPORTATION:** Airborne
- **TYPE OF SIGNALS:** N.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 30-357</td>
<td>5 3/8 * 5 3/8 * 3 7/16 *</td>
<td>0.45 lb</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

- **COMBINED WEIGHT OF COMPONENTS:** 6.50 lb
- **COMBINED VOLUME OF COMPONENTS:**
- **SHIP TONNAGE:**
**RC-103**

**PART A - TECHNICAL CHARACTERISTICS**

- Classification: Restricted
- Frequency Range: 105.5-110.5 MHz
- Number of Crystals: 3-6
- Preset Frequencies: 3-6
- Antennas: AN-100 or AN-120-MW-12
- Tuning: MO or Xtal XTL
- Sensitivity: 20µV/meter
- Selectivity: 600 kHz at 150 kHz bandwidth
- Power Source: 12 or 25 V, Aircraft Battery
- Similar Sets: None
- Power Output: (Watts)
  - 1 VT-105 (12C6T)
  - 2 VT-135 (12H6T)
  - 1 VT-150 (12K6T)
  - 1 VT-207 (12F5T-7)
  - 1 VT-228 (12C5T)
  - 5 VT-305 (6E7-T2A)

**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/GEM-3, AN/GEM-7
- To Replace In: None
- Transportation: Airborne
- Type of Signal: CW, NQR, Simultaneous Voice

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Classification</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver 8G-733</td>
<td>Restricted</td>
<td>7 5/32&quot; x 5&quot; x 15 3/8&quot;</td>
<td>21.1#</td>
</tr>
<tr>
<td>Control Box 8G-732</td>
<td>Restricted</td>
<td>8 5/8&quot; x 3 5/32&quot; x 9&quot;</td>
<td>.56#</td>
</tr>
<tr>
<td>Dynatron DM-53212V or DM-532 (12V.)</td>
<td>Restricted</td>
<td>3 1/8&quot; x 8 3/4&quot; x 9&quot;</td>
<td>3.8</td>
</tr>
</tbody>
</table>

| Combined Weight of Components: | 32.8# |
| Combined Volume of Components: | 90 cu. in |

**ATTACHMENT**

- Original from UNIVERSITY OF CALIFORNIA
**RC-115**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** (MHz) None
- **Number of Crystals:** None
- **preset frequencies:** 75 MHz
- **Antenna:** One Dipole
- **Tuning:** (MO or XTAL) MO

- **Sensitivity:**
- **Selectivity:**
- **Power Source:** 115 V 50-60 cycles 110 watts
- **Similar Sets:** None
- **Power Outputs (Watts):** One

**Tubes (Type and Number):**

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT-155</td>
<td>1</td>
</tr>
<tr>
<td>VT-329</td>
<td>1</td>
</tr>
<tr>
<td>VT-109</td>
<td>2</td>
</tr>
<tr>
<td>VT-329</td>
<td>1</td>
</tr>
<tr>
<td>VT-319</td>
<td>1</td>
</tr>
<tr>
<td>TX-1</td>
<td>5</td>
</tr>
<tr>
<td>TX-2</td>
<td>5</td>
</tr>
</tbody>
</table>

**Note:** All tubes are type 4050 unless otherwise specified.

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Marker beacon transmitter to indicate spot to airplane, used in blind approach to instrument landing.

- **Range:** 10,000 feet straight up.


- **To Replace in Part:** BC-302

- **Transportation:** Plane or army vehicle.

- **Type of Signal:** CW, MCR-600, 1900, 5000 cycles repeated 6 data per second or 2 marks per second.

**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 Transmitter BC-302</td>
<td>22&quot; X 31&quot; X 18&quot;</td>
<td>51 lbs</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 51 lbs

**Combined Volume of Components:** 7.5 cu. ft.

**Ship Tonnage:**
**RC-193, 193-Z**

**Nomenclature Designation**

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

**Part A - Technical Characteristics**
- **Class:** Restricted
- **Frequency:** 75 MHz
- **Number of crystals:** None
- **Preset frequencies:** 75 MHz
- **Antenna:** 1/2 wave
- **Tuning:** (MD or XTAL) None
- **Sensitivity:** About 2000 microvolts/meter
- **Selectivity:**
- **Power sources:** Low and high voltage supplied by airplane D.C. battery. See notes
- **Similar sets:** RC-59, RC-63
- **Power output (watts):**
  - (1) 6BT
  - (1) 6XCT-27
  - (1) 12BMW-2T

**Part B - Tactical Characteristics**
- **Class:** Restricted
- **Use:** To receive 75 MHz marker beacon signals.
- **Range:** Does not apply.
- **To communicate with:** RC-115, AN/USR-5
- **To replace in part:** RC-59, RC-63
- **Transportation:** Airborne
- **Type of signal:** SLQ

**Part C - Principal Components**
- **Class:** Restricted

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver 80-1023 &amp; 1033</td>
<td>5 3/8&quot; x 5 3/8&quot; x 3 7/16&quot;</td>
<td>2.4 lb</td>
<td>Restricted</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined weight of components:** 5.1 lb

**Combined volume of components:** 38.26 cu ft

**Ship tonnage:** 6.5 lbs

---

*Radio Receiver 80-1033, front view. Part of RC-193 and RC-193-Z.*

This Receiver differs from RC-59 and RC-63 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 runs from 12 V. Battery.*

---

*This sheet is classified: Restricted*
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: Transmitter 3.96 to 4.36, (HM)

NUMBER OF CRYSTALS: None

PRESET FREQUENCIES: None

ANTENNA: Loop LP-7

TUNING: (MO or Crystal): MO

SENSITIVITY:


RECEIVERS: Dry Battery 4A & 6N 4V.

SIMILAR SETS: SCR-101 (DIFFERENT FREQUENCY)

POWER OUTPUT: 5 Watts

TUBES: (Type and Number) 1 = Type 10 VT-25
3 = Type 264 VT-25

PART B - TACTICAL CHARACTERISTICS

USE: USED BY INFANTRY, ARMORED FORCES FOR COMMUNICATION BETWEEN DIVISION AND REGIMENTAL AND BATTLE GROUP IN THE ARTILLERY DIVISION


RANGE: 5 MILES.


TO REPLACE IN PART: SCR-77-9

TRANSPORTATION: Carried by vehicle, on D-day.

TYPE OF SIGNAL: Line Only.

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Classification</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSMIT &amp; RECEIVER, BC-140</td>
<td></td>
<td></td>
<td>20#</td>
<td></td>
</tr>
<tr>
<td>HAND GENERATOR, SN-35</td>
<td></td>
<td></td>
<td>20-1/4#</td>
<td></td>
</tr>
<tr>
<td>ANTENNA LOOP, LP-7</td>
<td></td>
<td></td>
<td>1-5/16#</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 70#
COMBINED VOLUME OF COMPONENTS: 6 CUB. FT.

SHIP TONNAGE: 50#
**SCR-161**

### Part A: Technical Characteristics

- **Frequency Range:** (Mk) Trans. 37 in 3½.
- **Number of Crystals:** None
- **Antenna:** Loop LP-7
- **Tuning (MO or XTAL):** No

### 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 BM, Lt., Med. & Hyt., etc. No. No. No.
- **Range (Miles):** 3
- **To Communicate With:** SCR-161, SCR-282, and SCR-24.5.
- **To Replace in Parts:** SCR-77-4 and 105.
- **Transportation:** Carried in Vehicle, Top-man Pad, or Horse 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 80-155</td>
<td>Height Width Depth</td>
<td>20 1/8</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>1 Hand Generator 80-35</td>
<td></td>
<td>20 1/8</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>1 Antenna Loop LP-7</td>
<td></td>
<td>1 3/4</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td><strong>Combined Weight of Components:</strong></td>
<td></td>
<td>75</td>
<td><strong>UNCLASSIFIED</strong></td>
</tr>
<tr>
<td><strong>Combined Volume:</strong></td>
<td></td>
<td>6 cu.ft.</td>
<td><strong>UNCLASSIFIED</strong></td>
</tr>
<tr>
<td><strong>Ship Tonnage:</strong></td>
<td></td>
<td>90</td>
<td><strong>UNCLASSIFIED</strong></td>
</tr>
</tbody>
</table>

*Radio Set SCR-161 in Operating Position: Low Power, Portable Communication Set, Replaced by SCR-255.*
**SCM-171**

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION**

- Frequency Range: (MG) Trans. 2.46 to 3.06 GHz
- Number of Crystals: None
- Preset Frequencies: None
- Antenna: 60 ft. "L" type with counterpoise on ground
- Tuning (MO or XTRAL): MO

**SENSITIVITY:**

**SELECTIVITY:**

**POWER SOURCE:** Trans.; 120 V, 280 V, 220 V, 600 V; 60 Hz, 220 V, 50 Hz, 220 V, 60 Hz

**SIMILAR SETS:** SCR-131 and 135 (except frequency and antenna)

**POWER OUTPUT:** (Watts) 5

**TUNES:** (Type and Number)
1. Type 10 VT-25
2. Type 16a VT-26

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION**

- **USE:** Used by Infantry, Field Artillery, Signal Corps, Air Corps, for Command between Div., MG, and Brigades. Also between Div. MG and Regiment.

**RANGE:** (Miles) 15

**TO COMMUNICATE WITH:** SCR-171, SCR-203, SCR-345, SCR-193, and SCR-25B.

**TO REPLACE IN PART:** SCR-79-A, and 130.

**TRANSPORTATION:** Carried in vehicle, operated on board.

**TYPE OF SIGNAL:** On 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 SG-156</td>
<td>24 ½</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Generator GM-35</td>
<td>30 1/4</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Antenna AN-19</td>
<td>1 5/8</td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME:**

**SHIP TONNAGE:** 216 ½
**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** UHF 1 to 32 MHz, UHF 32 to 60 MHz
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** None
- **ANTENNA:** Cross-forest, 60 kg, 1.5 kHz
- **TUNING:** No adjustable
- **SENSITIVITY:** 500 microvolts
- **POWER SOURCE:** Nickel-cadmium battery, 12 volts, 5 amp
- **SIMILAR SETS:** SCR-188
- **POWER OUTPUT:** 15 watts

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** Air to ground, short-range
- **POINTS OF CONTACT:**
  - **TRANSMITTER:**
    - SCR-177
  - **RECEIVER:**
    - SCR-193
  - **TRANSPORTATION:** Carried in a vehicle
- **TRANSMITTED SIGNALS:**
  - **OPERATING FREQUENCY:** 200 kHz
  - **AMplitude MODULATION:**
- **RANGE:** 1 mile

**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., SCR-191-A</td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Radio Recvr., SCR-199-A</td>
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<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Power Unit PE-39</td>
<td></td>
<td></td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td><strong>COMBINED WEIGHT OF COMPONENTS:</strong></td>
<td></td>
<td>150 lbs</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td><strong>COMBINED VOLUME:</strong></td>
<td></td>
<td>20 cu. ft</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td><strong>SHIP TONNAGE:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SCR-177-B

PART A - TECHNICAL CHARACTERISTICS
FREQUENCY RANGE: (MHz) Trans. 0.10 to 1.5 MHz
Recev. 150 to 160 MHz
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: 1/2 wave
TUNING: (MD or XTAL) MD
SENSITIVITY: SELECTIVITY:
POWER SOURCE: Trans. 115V AC, 60 Hz
Recev. 24V DC
SIMILAR SETS: SCR-158-A
POWER OUTPUTS (WATTs): 75 W 100W max.
TUBES (Type and Number):
1-621S6
2-6CA6
L-2115FL

PART B - TACTICAL CHARACTERISTICS
USES: SEA C2, SEA BU, SEA BU BU, R.C., A.A. VAC, AA VAC
LTG. (TD) HSG, REED HS, EN HSA, Etc.
VH ARTILL. (40) HSG, REED HS, EN HSA, Etc.
(LTD) AD.
RANGE: (MILES) CR-100; TONE-70; VOICE-50.
TO COMMUNICATE WITH: SCR-177-B; SCR-187; SCR-193;
SCR-230-B; SCR-257-A.
TO REPLACE IN PARTS SCR-152-A; SCR-156; SCR-177-A.
TRANSPORTATION: Carried in vehicle, operated on ground.
TYPE OF SIGNAL: CW; TONE; VOICE; A.M.

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. SC-191</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recev. SC-314</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recev. SC-312</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-49</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

CLASSIFICATION: 1

FREQUENCY RANGE: (MHz) Trans., 2.4 - 3.7.
Receiver, 2.4 - 5.5.

NUMBER OF RC CRYSTALS: None

PRESET FREQUENCIES: None

ANTENNA: 27 ft. fixed pole with counterpoise.

TUNING (MO or KTAL): No

SENSITIVITY: See selectivity.

POWER SOURCE: Trans., home generator 500 W.
Receiver, dry batteries - 4 x 24-V
4 x 7-V and 2 x 24-V.

SIMILAR SETS: SCR-179

POWER OUTPUT: Mod, CW - 5; Time - 5; Voice - 2.2
Time - 1000; Voice - 300 modulation.

TUBES (Type and Number): 80-156, 1 Type 96.
2 Type 306, 1 Type 560.
1 BD-107-6; 1 Type 56, 1 Type 250.
1 Modulator BD-106-6; 2 Type 364.

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION: Used by field artillery, Ft. Slocum FA,
INF, Hvy. & Lty., In HQ, DIV, Regt. in the
Point to Point, and ground to plane between
All FA units (except Field) and aircraft
for observation purposes.

RANGE (MILES): Point to Point: CW - 20; Time - 20;
Voice - 10.
Air to ground: CW - 50; Time - 50;
Voice - 50.

TO COMMUNICATE WITH: SCR-178, SCR-179, SCR-236.

TO REPLACE IN PARTS: SCR-105-A.

TRANSMISSION: Carried on vehicle.

TYPE OF SIGNALS: CW, Time, Voice.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: UNCLASSIFIED

ITEM

1 Radio Trans., BD-107-1 (A)
1 Radio Modulator BD-106-1 (A)
1 Radio Receiver, BD-106
1 Generator CD-57

DIMENSIONS

WEIGHT

CLASSIFICATION

12.2 ft.
6.1 ft.
9.0 ft.
30.6 ft.

UNCLASSIFIED
UNCLASSIFIED
UNCLASSIFIED
UNCLASSIFIED

COMBINED WEIGHT OF COMPONENTS: 220 ft.

COMBINED VOLUME: 51,000 ft.

SHIP Tonnage: 220 ft.

THIS SHEET IS CLASSIFIED: UNCLASSIFIED
RADIO SET SCR-179, HORSE PACK

RADIO SET SCR-179, OPERATING POSITION IN FIELD

RADIO SET 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.

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: TRANSMITTER, 2.4 - 3.7
RECEIVER, 2.4 - 3.7
NUMBER OF CRYSTALS: NONE
PRESET FREQUENCIES: NONE
ANTENNA: 27 FOOT Fishpole, with Counterpoise
TUNING: [NO OR XTAL] MD
SENSITIVITY:
SELECTIVITY:
POWER SOURCE: RADIO GENERATOR GN-37, 6 and 500 V.
Dry Batteries are as follows: 6 SA-25, 2 SA-25; 6 BA-27.
SIMILAR SETS: SCR-176
POWER OUTPUT: (Watts) CW-1.2; FM-1.2; AM-3.
TONE-1000; VOLUME-30
TUBES: (TYPE AND NUMBER) 1 BD-105 VHSK 2, 504
2, 545, 1 BD-107-A VHSK 1, 101; 1, 605
1 BD-105-A VHSK 2, 50.

PART B - TACTICAL CHARACTERISTICS

USC: Field Artillery, Horse and Pack Artillery, OPERATES ON GROUND.

RANGE: (Miles) Point-to-Point CW-25; Tone-20; Voice-10, Air-To-Grounds CW-100; Tone-75; Voice-50.

TO COMMUNICATE WITH: Radio Set SCR-179; SCR-179, AND SCR-239.

TO REPLACE IN PART: Radio Set SCR-109-A

TRANSPORTATION: Horse Pack.

TYPE OF SIGNAL: CW = Tone = Voice. (A.M.)

PART C - PRINCIPAL COMPONENTS

ITEM (CLASSIFICATION)

<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 Modulator, BD-105</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Transmitter, BD-107</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Receiver, BD-106</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Generator GN-37</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 20 lb

COMBINED VOLUME OF COMPONENTS: 5 cu.ft.

SHIP TONNAGE: 1
SCR-183

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: Receiving = 201-300 kc., 4190-7700 kc. Transmitting = 2500-7700 kc.
NUMBER OF CRYSTALS: None
PLATE FREQUENCIES: None
ANTENNA: 5 ft. vertical mast antenna. Travel, 2 ft. or 4 ft. Type 16 to 50 ft. long.
TUNING (MD OR TIDAL): MD
SENSITIVITY: REACTIVITY
POWER SOURCE: 12 volt plane battery.
SIMILAR SETS: Similar to SCR-883 except 12 v.
POWER OUTPUT (WATT): 350 watts Audio 1.21, 14.0.
TUBES: Type and Number
1. Type 39/A
2. Type 48
3. Type 43 BPL
(Tube content above applies to SCR-883)

PART B - TACTICAL CHARACTERISTICS

USE: Command set - plane-to-plane, plane-to-ground communications.
RANGE: (miles) 90-125 miles plane-to-plane, 10-20 miles plane-to-ground.
TO COMMUNICATE WITH: Other equipment within range of each other operating same frequencies.
TO REPLACE IN PARTS:
TRANSPORTATION: Airborne Installation.
TYPE OF SIGNAL: CW; Tone; 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, BC-229</td>
<td>7 5/8 in. x 6 5/8 in. x 11 1/16 in.</td>
<td>12 lb.</td>
<td></td>
</tr>
<tr>
<td>Radio Trans., BC-230</td>
<td>7 5/8 in. x 6 5/8 in. x 13 1/4 in.</td>
<td>10 lb.</td>
<td></td>
</tr>
<tr>
<td>Dynamo Motor Unit, DC-230</td>
<td>8 7/16 in.</td>
<td>9 lb.</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box, BC-231</td>
<td>3 1/4 in. x 3 1/4 in. x 2 3/4 in.</td>
<td>1 lb.</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box, BC-252</td>
<td>4 3/4 in. x 4 3/4 in. x 2 3/4 in.</td>
<td>1 lb.</td>
<td></td>
</tr>
<tr>
<td>Antenna Mast, 4 ft.</td>
<td>2 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 32.9 lb.
COMBINED VOLUME: 2 cu. ft.

SHIP TONNAGE:

THIS SHEET IS CLASSIFIED: UNCLASSIFIED
SCR-187

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:**
  - Receiver: 1.5 - 15 MHz
  - Trans.: 1.5 - 12.5 MHz; 3000 - 15000 MHz

- **NUMBER OF CRYSTALS:** None

- **PRESET FREQUENCIES:** None

- **ANTENNA:** Trailing Wire

- **Sensitivity:** N/A

- **Selectivity:** N/A

- **Power Source:** 12 - 15 volt airplane battery supply

- **Similar Sets:** SCR-207

- **Power Outputs (Watts):** 30 - 60 watts

- **Tubes:** (Type and Number) BCN-IA-107 series:
  - Trans.: 1/4 VT-8, 1/2 VT-25
  - Receiver: 1/2 VT-50, 1/4 VT-69

**PART B - TACTICAL CHARACTERISTICS**

- **Range (Miles):** 50 to several hundred miles

- **To Communicate With:** SCR-188, SCR-193, SCR-197

- **To Replace In Parts:**

- **Transportation:** Airborn installation

- **Type of Signal:** Voice, Tone, CW

**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-191</td>
<td>21 1/2 1/8</td>
</tr>
<tr>
<td>Radio Receiv. BC-224</td>
<td>18 1/2 1/2</td>
</tr>
<tr>
<td>Dynamo Unit BC-77</td>
<td>11 1/2 1/2</td>
</tr>
<tr>
<td>Radio Control Box BC-306</td>
<td>5 1/2 1/2</td>
</tr>
<tr>
<td>Antenna Tuning Unit BC-306</td>
<td>17 3/16</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TD-5</td>
<td>7 5/8 1/2</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TD-2</td>
<td>7 5/8 1/2</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TD-4</td>
<td>7 5/8 1/2</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TD-7</td>
<td>7 5/8 1/2</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TD-6</td>
<td>7 5/8 1/2</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TD-10</td>
<td>7 5/8 1/2</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:** 250 lbs., approx.

**Combined Volume:** 5 cu. ft., approx.
SCR-188

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION:

FREQUENCY RANGE:
- Trans.: 1.5 - 22.5 MHz
- Receiving: 0.6 - 13.0 MHz

NUMBER OF CRYSTALS:
- 1 as XTL oscillator

FREQUENCY MODUlator:
- Internal: 1 MHz, 3 kHz, 6 kHz, 12 kHz

TUNING:
- ND or XTL

Sensitivity:
- No data provided

POWER SOURCE:
- 120 VAC, 60 Hz

SIMILAR SET:
- SCR-177-A (except frequency)

POWER OUTPUT:
- (Battery) 75 at 85% modulation

TUBES (Type and Number):
- 1 BC-109-A, 3 Type 564, 1 Type 551, 1 Type 351, 1 Type 551-A, 1 Type 211

PART B - TACTICAL CHARACTERISTICS

RANGE (Miles):
- CW-100, Tone-70, Voice-30

TO COMMUNICATE WITH:

TO REPLACE IN PARTS:
- None

TRANSPORTATION:
- Vehicle or Plane (operated on ground only)

TYPE OF SIGNAL:
- CW, Tone, Voice

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM

DIMENSIONS

WEIGHT

CLASSIFICATION

Radio Trans., BC-109-A
Radio Recep., BC-109-A
Power Unit PE-10

COMBINED WEIGHT OF COMPONENTS

1,150 lb

COMBINED VOLUME OF COMPONENTS

25 cu ft

SHIP Tonnage

This sheet is classified. (UNCLASSIFIED)
### SCR-188-A

#### Part A - Technical Characteristics

- **Frequency Range:** (MHz) Trans., 1.5 – 10; Res., 1.5 – 10 kHz
- **Number of Crystals:**
- **Preset Frequencies:**
  - Tuning: No or Xtal. MO
- **Sensitivity:**
- **Similar Sets:** SCR-177-6
- **Power Output:** (Watts) 75 in 25kW max., tone & voice.
- ** Tubes** (Type and Number):
  - 1-56L
  - 1-6ET
  - 1-10L
  - 2-80S
  - 1-30PL
  - 1-50Q
  - 1-60ET
  - 2-59Q

#### Part B - Tactical Characteristics

- **Use:** AD Purity
- **Attacks:**
  - BScn, 6kW Res., 6kW Res., 6kW Res.
  - 6kW Res., AEP Co.
- **Range:** (Miles) 200; Tone, 70; Voice, 90.
- **To Communicate With:** SCR-188; SCR-187; SCR-181; SCR-273-A; SCR-285; SCR-285-A; SCR-287-A; SCR-287-A; SCR-287-A;
- **To Replace in:** None
- **Transportation:** Vehicles or planes (operated on 6 hour only)
- **Type of Signal:** OSI Tone; Voice (A.M.)

#### 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-191</td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
<tr>
<td>Res., BC-342</td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
<tr>
<td>Power Unit PE-75</td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
<tr>
<td>Rectifier RA-36</td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
</tbody>
</table>

Combined Weight of Components: 120 lbs

Combined Volume of Components: 

Ship Tonnage: 

This sheet is classified: Unclassified

Page 33
SCR-193

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION:

FREQUENCY RANGE: (MHz) TRANS.: 1.5 - 1.5
 Herm.: 1.5 - 1.5.
NUMBER OF CRYSTALS: None
PRESIDENT FREQUENCIES: None
ANTENNA: 75' Fiberglass or flexible mast base
W/P-15 or W/P-37.
TUNING (WO OR XTAL): WO
SENSITIVITY:

POWER SOURCE: Trans. Dynamotor Unit NO-77;
Hex. Dynamotor Internal. 12V Car Battery.
SIMILAR SETS: SCR-177-B
POWER OUTPUT: (Watts) 75 at 100% Modulated.
TUBES (Type and Number):

01: VT-231 1 in use, 1 spare.
02: VT-356 1 in use, 1 spare.
03: VT-69 1 in use, 1 spare.
04: VT-82 1 in use, 1 spare.
05: VT-100 1 in use, 1 spare.

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION:

USE:

COMMENTS: No. Sx, So, Te (HAM), Sbx, Te (HAM),
EX: GT, GE, RE, NE, AG, Bx;
Sx: Se, Co, Ns, Co & Te Oper.
Tubes, Scout Cars, Half Tracks etc.

RANGE (Miles): Stationary - CB-50; Tone-40;
Vehicle - CB-50; Tone-30;
Vehicle - 15.

TO COMMUNICATE WITH:
SCR-111; SCR-177;
SCR-107; SCR-193; SCR-203; SCR-207;
SCR-111; SCR-193; SCR-207.

TO REPLACE IN PART:

TRANSPORTATION: Lt, Teams, MG, MG, TL,
Combat Car M-1, Scout Car M-2, Armed Car
T-77, Armed Car M-1.

TYPE OF SIGNAL: CB; Tone; 100 HZ. (X-M.)

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM

DIMENSIONS

WEIGHT

CLASSIFICATION

Radio Trans. NO-191
Radio Repr. NO-312
Dynamotor NO-77

HEIGHT

WIDTH

DEPTH

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

COMBINED WEIGHT OF COMPONENTS:
300 LB.

COMBINED VOLUME:
7 FEET.

SHIP Tonnage:

NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

THIS SHEET IS CLASSIFIED: UNCLASSIFIED

PAGE 34

INSTRUCTIONAL LITERATURE:

TM 11-275

STATUS:

STANDARD

CHANGE IN

STATUS:

UNCLASSIFIED
### SCR-194

**PART A - TECHNICAL CHARACTERISTICS**

- **Classification:**
- **FREQUENCY RANGE:** (MHz) 27.7 to 52.2
- **NUMBER OF CRYSTALS:** 1 for calibration
- **PRESET FREQUENCIES:** None
- **ANTENNA:** Adjustable rod for ground use (12 sections), three section fibreglass for vehicle
- **TUNING (MO or XTAL):** MO
- **SENSITIVITY:**
- **SELECTIVITY:**
- **POWER SOURCE:** Dry Batteries BA-52
- **SIMILAR SETS:** SCR-195 except for frequency
- **POWER OUTPUT:** (Watts) 75 mW 60S modulation
- **TUBES:**
  - Type 60: 222 Transmitter
  - Type 55: 1 Type 30 SFL

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** 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**

<table>
<thead>
<tr>
<th><strong>ITEM</strong></th>
<th><strong>DIMENSIONS</strong></th>
<th><strong>WEIGHT</strong></th>
<th><strong>CLASSIFICATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio &amp; Transmitter, BC-222 in case with batteries, Antenna, Receiver, Mic, Microphone</td>
<td>1 Cubic Feet</td>
<td>23.10#</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Auxiliary Equipment and Spare Parts in Chest CH-55</td>
<td>2 Cubic Feet</td>
<td>64.10#</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 90#

**COMBINED VOLUME:** 1.5 Cu.Ft.

**SHIP TONNAGE:** 103#
**SCR-195**

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION**

**FREQUENCY RANGE**: 52.5 to 55.5 MHz

**NUMBER OF CRYSTALS**: 1 used for calibration, reference.

**PRESET FREQUENCY**: None.

**ANTENNA**: 6 section adjustable rod for known use. The antenna feeds on flexible mounting for vehicle.

| TUNING (MO or STAI) | MO |

**SENSITIVITY**

**SELECTIVITY**

**POWER SOURCE**: Dry batteries 8A-52.

**SIMILAR SET**: SCR-195 except for frequency.

**POWER OUTPUT**: (Watts) 1.5 SCS modulation.

**TUBES**:

- 1 Type 35
- 1 Type 30 DPL

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION**

**USES**: Use by the infantry, signal corps, parachute troops, point to point communications.

**RANGE (MILES)**: 5

**TO COMMUNICATE WITH**: SCR-195 only.

**TO REPLACE IN PARTS**: None.

**TRANSPORTATION**: Box pack, or in vehicle.

**TYPE OF SIGNALS**: Voice.

**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, PTT, &amp; Trans, BC-522 in box with batteries, antenna, and handset, auxiliary equipment and spare parts in chest CR-55.</td>
<td></td>
<td>26.05 lb</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Combined weight of components</td>
<td></td>
<td>31 lb</td>
<td></td>
</tr>
<tr>
<td>Combined Volume</td>
<td>8.40 cu ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ship Tonnage</td>
<td>106</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**STATUS**: Change in status

**DESTRUCTION**: 23 June 44

**INSTRUCTIONAL LITERATURE**: TW 11-238

---

**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-300.
**SCR-197**

### PART A - TECHNICAL CHARACTERISTICS

**FREQUENCY RANGES (MHz)**
- Trans. 1.5 - 10.0
- Receiving 1.5 - 10.0

**NUMBER OF CRYSTALS**
- Trans. - 5
- 1 in each receiver

**PRESET FREQUENCIES**
- 5 crystal and 5 mechanical

**ANTENNA**
- 140 ft, with counterpoise, suspended from truck and sectional mast on 7 section 1/2 pole type antenna

**TUNING**
- (MO or XTL) MO and XTL

**SENSITIVITY**
- Selectivity

**POWER SOURCE**
- Trans: Commercial 110-volt 60 cycle generator (AC/DC). Receivers: Commercial 110-volt 60 cycle power unit PC-75.

**SIMILAR SETS**
- SCR-299; SCR-399; SCR-499.

**POWER OUTPUT**
- (Watts) CW - 20; Tone -125; Voice - 125

**TUBES**
- (Type and Number)
  - SCR-197-A: Type 6 VT-40; 6 VT-42; 12 VT-42; 9 VT-60; 6 VT-76; 3 VT-90; 6 VT-82; 6 VT-97; 12 VT-101; 9 VT-106; 6 Type 915; 6 Type 5641.

### PART B - TACTICAL CHARACTERISTICS

**USE**
- Signal Corps, Air Corps, Ground to Air, Long Range.

**RANGES (MILES)**
- CW & Stationary - 1000.

**TO COMMUNICATE WITH**
- SCR-177; SCR-189; SCR-187; SCR-195; SCR-197; SCR-295; SCR-297; SCR-397; SCR-261; SCR-276; SCR-283.

**TO REPLACE IN PART**
- None

**TRANSPORTATION**
- Vehicular, (vehicles included)

**TYPE OF SIGNAL**
- CW; Tone; Voice

### 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. 9C-325</td>
<td></td>
</tr>
<tr>
<td>Radio Recvr. 9C-352 (3)</td>
<td></td>
</tr>
<tr>
<td>Truck X-18</td>
<td></td>
</tr>
<tr>
<td>Trailer X-19</td>
<td></td>
</tr>
</tbody>
</table>

| COMBINED WEIGHT OF COMPONENTS: | 15,000# APPROX. |
| COMBINED VOLUME: | 397 cu. ft. |
| SHIP TONNAGE: | |
**SCR-203**

**NOMENCLATURE DESIGNATION:**

**PART A - TECHNICAL CHARACTERISTICS (CLASSIFICATION):**
- **FREQUENCY RANGE:** (MHz) Transmit: 2.2 - 5.06, Receive: 2.0 - 5.1.
- **NUMBER OF CRYSTALS:** None.
- **PRESET FREQUENCIES:**
- **ANTENNA:** 25 ft. 8 section fibropole when used on ground. For mobile operation fewer sections are used.
- **TUNING (NO OR XTAL):** No.
- **SENSITIVITY:** Selectivity.
- **POWER SOURCE:** SM-75; 8 & 350 V; Dry Batteries; 12 V, 13 V, & 240 V.
- **SIMILAR SETS:**
- **POWER OUTPUT:** (Watts) 7.5 at 60% modulation.
- **TUNES:** (Type and Number) 1 60-227 or 60-227-A; 5 Type 50; 2 60-226 or 60-220-A; 2 Type 50; 1 Type 50.

**PART B - TACTICAL CHARACTERISTICS (CLASSIFICATION):**
- **USE:** Cavalry, FA units and Signal Corps.
- **RANGE (MILES):** On Ground: 205; 209; 210; 230; 157; 245.
- **TO COMMUNICATE WITH:** SCR-193; 205; 209; 210; 230; 157; 245.
- **TO REPLACE IN PART:** SCR-127; 165-A.
- **TRANSPORTATION:** Horse Pack; Vehicle.
- **TYPE OF SIGNAL:** CW; Tone; Voice.

**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>Transmitter 60-226-A or 60-226</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receiver 60-227-A or 60-227</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand Generator DH-55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMBINED WEIGHT OF COMPONENTS:</td>
<td>160#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMBINED VOLUME:</td>
<td>10 Cu.Ft.</td>
<td></td>
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</tbody>
</table>

**STATUS:**
- LIMITED EDITION
- TM 11-259

**CHANGE IN STATUS:**
- Page 38

**THIS SHEET IS CLASSIFIED:** UNCLASSIFIED
SCR-206

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE (Mc): 0.2 - 15.0
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: Loop
TUNING: (WD OR XTAL)
SENSITIVITY: 20 - 100 MICROVOLTS PER METER.
SELECTIVITY:
POWER SOURCE: 6-VOLT STORAGE BATTERY.
SIMILAR SETS: SCR-505
POWER OUTPUT (WATTS):
TUBES: [TYPE AND NUMBER] 1 VT-90 1 VT-106 2 VT-509 1 VT-150

(NOTE: The tube line-up is for SCR-206-O. Each model has 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: Not applicable.
TRANSPORTATION: Portable
TYPE OF SIGNAL: Not applicable.

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver SC-2070</td>
<td>24 1/2&quot;</td>
<td>16 3/8&quot;</td>
<td>15 1/2&quot;</td>
<td>65.5#</td>
</tr>
<tr>
<td>Antenna [Senses] (Each Set)</td>
<td>35 3/8&quot;</td>
<td>17 5/8&quot;</td>
<td>5 &quot;</td>
<td>4.6#</td>
</tr>
<tr>
<td>Loop LP-22</td>
<td>11 1/2&quot;</td>
<td>23 &quot;</td>
<td>16 1/4&quot;</td>
<td>30.4#</td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 184.6#
COMBINED VOLUME OF COMPONENTS: 105.8
SHIP TONNAGE: 300(4)
**SCR-209**

**PART A - TECHNICAL CHARACTERISTICS**

**CLASSIFICATION:**

- **FREQUENCY RANGE:** 2.5 - 2.6 MHz
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** UNCLASSIFIED
- **ANTENNA:** UNCLASSIFIED
- **TUNING:** UNCLASSIFIED
- **Sensitivity:** UNCLASSIFIED
- **POWER SOURCE:** Motor Generator and Battery Unit ME-69, Receiver, Oscillator Unit BD-69.
- **SIMILAR SETS:** UNCLASSIFIED
- **POWER OUTPUT:** (watts) 0.5; Tone: 7.5; Voice: 7.5
- **GND Max. Taps, UNCLASSIFIED
- **TUBES:** (Type and Number)
  - 2 VT-12
  - 2 VT-14
  - 1 VT-60
  - 1 VT-30

**PART B - TACTICAL CHARACTERISTICS**

**CLASSIFICATION:**

- **USE:** Combat and Scout Cars
- **RANGE (MILES):**
  - **Stationary:** 50
  - **Moving:** 10
- **POWER:** UNCLASSIFIED
- **TO COMMUNICATE WITH:** SCR-193, SCR-209, SCR-210
- **TO REPLACE IN PARTS:** SCR-193, SCR-209
- **TRANSPORTATION:** UNCLASSIFIED
- **TYPE OF SIGNALS:** CW: Tone; Voice: AM

**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 Trans., BD-30-A</td>
<td></td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Radio Trans., BD-30-A</td>
<td></td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Radio Trans., BD-30-A</td>
<td></td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
<tr>
<td>Motor Generator ME-69</td>
<td></td>
<td>UNCLASSIFIED</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 1650 lbs

**COMBINED VOLUME:** 4 CUB. FT.

**SHIP TONNAGE:**

---

*Radio Set SCR-209 in Operating Position.*

*Very few of these sets have ever been tested.* SCR-209 is being replaced by SCR-265.
SCR-210

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 1.5 - 16.0 (Receiver only)
NUMBER OF CRYSTALS: 0
Preset Frequencies: None
ANTENNA: 15' 5 SECTION FIBERPOLE ON MP-16A ON 37.
TUNING: (MD OR XTAL)
SENSITIVITY: 5 MILLIWATTS
SELECTIVITY: 5 MILLIWATTS
POWER SOURCE: DYNAMO INTERNAL /BATTERY
SIMILAR SETS:

PART B - TACTICAL CHARACTERISTICS

USES: Signal Corp. SSGC A AAF F MLT Can Gen in any vehicle
where separate receiver is required.
RANGE: (MILES)
TO COMMUNICATE WITH
TO REPLACE IN PART: SCR-190
TRANSPORTATION: VEHICLE
TYPE OF SIGNAL: CRY, TONE, VOICE.

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver, BD-512</td>
<td>715</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 715
COMBINED VOLUME: 2 CU. FT.
**SCR-211**

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (MHz) 125 - 200

**NUMBER OF CRYSTALS:** 2 CRYSTAL DQ-9F

**PRESET FREQUENCIES:** None

**ANTENNA:** 2 to 3 feet No. 12 BAS HANS DRUM Sub.

**TUNING:** (MO OR XTAL) XTAL

**SENSITIVITY:**

**SELECTIVITY:**

**POWER SOURCE:** BA-25 (L); BA-2-6 (6)

**SIMILAR SETS:**

**POWER OUTPUT:** (Watts)

**TUBES:** (Type and Number) SCR-211-D

- 1 MO-221-C
- 1 TYPE 76
- 1 TYPE 6A7

**PART B - TACTICAL CHARACTERISTICS**

**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**

<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>
<tr>
<td>FREQUENCY METER MO-221</td>
<td>13.13</td>
<td>10.13</td>
<td>9.54</td>
</tr>
<tr>
<td>CRYSTAL UNIT DQ-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CALIBRATION Block MO-177</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 50 (complete with Mount)

**COMBINED VOLUME:**

**SHIP TONNAGE:**
**SCR-237**

**PART A - TECHNICAL CHARACTERISTICS**

- **Classification:** Restricted
- **Frequency Range:** (MHz) Trans.: 0.2 - 1.5; 2 - 18
- **Number of Crystals:**
- **Preset Frequencies:** 10
- **Antenna:** Inverted L
- **Tuning:** (MO or XTAL) MD
- **Sensitivity:**

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Air Corps: On ground - Air Corps Squadrons, Ground-to-Air, Point-to-Point Communication.
- **Range:** (Miles) 750 using Ground-to-Air.
- **To Communicate With:** SCR-183; SCR-197; SCR-189; SCR-195; SCR-245; SCR-251; SCR-261; SCR-275; SCR-295; SCR-505; SCR-554.
- **To Replace in Part:** SCR-188-A

**PART C - PRINCIPAL COMPONENTS**

- **Classification:** Restricted
- **Components:**
  - Transmitter AMRT-5 (Navy ATG)
  - Receivers DC-562

**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>1. Transmitter AMRT-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Restricted</td>
</tr>
<tr>
<td>2. Receivers DC-562</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unclassified</td>
</tr>
</tbody>
</table>

(Minimum consistent with best engineering practice)

- **Combined Weight of Components:**
- **Combined Volume:**
- **Ship Tonnage:**

**This Sheet is Classified: Restricted**

**Page 43**
**SCR-242**

**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** 1.7 - 1.15, 1.15 - 1.75

**NUMBER OF CRYSTALS:** None

**MILDRES FREQUENCY:** 

**ANTENNA:** Vertical 5" or T-56 loop antenna mounted on airplane with remote control of rotation.

**TUNING:** No or X-TAL 60

**SENSITIVITY:** Selectivity

**POWER SOURCE:** 45 Volts D.C. and Dynamotor DA-15

**SIMILAR SET:** SCR-106

**POWER OUTPUTS (Watts):** Receiver only.

**TUBES (Type and Number):** 1 VT-64, 6 VT-86, 1 VT-87, 1 VT-88, 1 VT-92

**PART B - TACTICAL CHARACTERISTICS**

**USE:** Aural reception of radio frequency energy on vertical or directional loops, left indication of the direction of arrival of radio frequency energy with respect to the plane of the loop and simultaneous on source aural reception of radio frequency energy. Navigation & bombing aid in aircraft.

**RANGE (Miles):** 

**TO COMMUNICATE WITH:** ----

**TO REPLACE IN PART:** SCR-106

**TRANSPORTATION:** Aircraft installation.

**TYPE OF SIGNAL:** Receiver CR; Transmitter.

**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>50-110-a Radio Compass Unit</td>
<td>7 1/2 x 10 1/2 x 11 5/8</td>
<td>0.22</td>
<td></td>
</tr>
<tr>
<td>50-111-a Radio Control Box</td>
<td>7 x 7 x 1 3/4</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>50-113-a Loop</td>
<td>23 3/4 x 20 3/4 x 2 1/4</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>CB-115-a Loop Mounting Cap</td>
<td>7 1/2 x 2 1/2 x 1 1/2</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>CB-115-a Loop Mounting Cap</td>
<td>1 1/4 x 1 1/4 x 1 1/4</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>40-12a Tuning Shaft</td>
<td>3/4 x 3/4 x 2 1/2</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>60-127 Tuning Unit</td>
<td>5 1/2 x 2 1/2 x 2 1/2</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>TM-180-a Junction Box</td>
<td>5 3/8 x 4 3/4 x 2 21/32</td>
<td>1.7</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 0.25

**COMBINED VOLUME:** 2.2 x 2.2 x 2.2

**SHOE TOTTAGE:** 0.025 approx.

---

**GENERAL VIEW OF SET IN OPERATING POSITION**

SCR-242 is an aircraft radio compass, manually tuned from local or remote station.
PART A - TECHNICAL CHARACTERISTICS

- Frequency Range (MHz): 0.35 - 20
- Number of Crystals: None
- Preset Frequencies: None
- Antenna: Tuning: (MD OR KTAL) Not Applicable
- Sensitivity: Not Applicable
- Selectivity: Not Applicable
- Power Source: 105/125 volts, a-c
- Similar Sets: Not Applicable
- Power Output: (Watts) Not Applicable
- Tubes: (Type and Number)
  1. VT-66 1 VT-57
  2. VT-66 2 VT-50
  3. VT-66 1 VT-176
  3. VT-56 1 VT-51

PART B - TACTICAL CHARACTERISTICS

- Range: (Miles) Does not apply
- To Communicate With: Not Applicable
- To Replace In Parts: Not Applicable
- Transportation: Not Applicable
- Type of Signal: AM - ON

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</td>
<td>18.25&quot;</td>
<td>25&quot;</td>
<td>14.5&quot;</td>
<td>70#</td>
<td></td>
</tr>
<tr>
<td>Power Unit</td>
<td>8.25&quot;</td>
<td>13&quot;</td>
<td>8.5&quot;</td>
<td>50#</td>
<td></td>
</tr>
</tbody>
</table>

Combined Weight of Components: 110#
**SCR-245**

### Part A - Technical Characteristics

**Frequency Range:** 1.5 kHz to 5.5 kHz may be extended to 5.2 kHz by using TU-254-A, RETRA, TR-1, or TR-2.

**Number of Crystals:** 6 in Transmit, 10 in Receive.

**Frequency Control:** 60 cycles, five position fixed or flexible at 60 cycles.

**Tuning:** (60 or XTAL) balanced.

**Sensitivity:**

**Selectivity:**

**Power Sources:**

**Output:** (Batteries) 10 to 3000 volts.

**Tubes:** (Type and Number) 2 Type 80-222, 4 Type 10, 1 Type 80-223, 1 Type 200.

**Similar Sets:**

### Part B - Tactical Characteristics

**Uses:** Used by AF, AM, FM, CW, VHF, TV.

**Range:** (Miles) 20-45, 45-90, 90-165, 165-250.


**To Replace In:** SCR-189, SCR-190, SCR-191, SCR-192.

**Transportation:** Transporter MB-8 or W-2 Vehicles.

**Type of Signal:** CW, Tone, Video.

### 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 Transmitter</td>
<td>16 1/2&quot; x 10 1/2&quot; x 8 3/4&quot;</td>
<td>26.50 lb</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Radio Receiver</td>
<td>16 1/2&quot; x 10 1/2&quot; x 8 3/4&quot;</td>
<td>12.0 lb</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>Vehicular Antenna</td>
<td>16 1/2&quot; x 10 1/2&quot; x 8 3/4&quot;</td>
<td>12.0 lb</td>
<td>UNCLASSIFIED</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 2015 lb

**Combined Volume:** 30 cu.ft.

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>FREQUENCY RANGE (MC): 195 - 400 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:</td>
<td>8' LOOP B BIDIRECTIONAL (USUALLY VERTICAL). NO LOCAL OR REMOTE CONTROL.</td>
</tr>
<tr>
<td>TUNING:</td>
<td>MD OR XTAL. MD</td>
</tr>
<tr>
<td>SENSITIVITY:</td>
<td>SELECTIVITY</td>
</tr>
<tr>
<td>POWER SOURCE:</td>
<td>12 VOLT STORAGE BATTERY AND DM-29.</td>
</tr>
<tr>
<td>SIMILAR SETS:</td>
<td>SCR-276 EXCEPT FOR INPUT VOLTAGE.</td>
</tr>
<tr>
<td>POWER INPUT: (Watts) TO WATT CONSUMPTION.</td>
<td></td>
</tr>
<tr>
<td>TUBES: (Type and Number)</td>
<td>SCR-2166-A USERS 1-RC-373A</td>
</tr>
<tr>
<td>Type</td>
<td>Number</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>5</td>
<td>665</td>
</tr>
<tr>
<td>4</td>
<td>657</td>
</tr>
<tr>
<td>2</td>
<td>667</td>
</tr>
<tr>
<td>1</td>
<td>667</td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Classification</th>
<th>USE: NAVIGATIONAL INSTRUMENT. RADIO COMPASS RECEIVING SET. 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 BEACON RECEIVER PROVIDING AURAL RECEPTION OF MODULATED SIGNALS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RANGE: (MILES)</td>
<td>TO COMMUNICATE WITH. RECEPTOR ONLY RADIO BEACON TRANSMITTER.</td>
</tr>
<tr>
<td>TO REPLACE IN PART:</td>
<td></td>
</tr>
<tr>
<td>TRANSPORTATION:</td>
<td>AIRCRAFT INSTALLATION.</td>
</tr>
<tr>
<td>TYPE OF SIGNAL:</td>
<td>MW</td>
</tr>
</tbody>
</table>

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Classification</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Compass Unit RC-373</td>
<td>Height</td>
<td>Width</td>
<td>Depth</td>
</tr>
<tr>
<td>Radio Control Box RC-371</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOOP LP-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator</td>
<td></td>
<td></td>
<td></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 approximations.

| COMBINED WEIGHT OF COMPONENTS: | 35.5 lbs. |
| COMBINED VOLUME: | 8'' x 8'' x 15 5/8'' |
| SHIP TONNAGE: | |
**SCR-255**

**NOMENCLATURE DESIGNATION**

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

**STATUS:** LIMITED STANDARD 11 Jan 42

**INSTRUCTIONAL LITERATURE:** TM 11-661

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

**FREQUENCY RANGE:** 0.5 - 30 GHz

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:** None

**ANTENNA:** None

**TUNING:** (No or XTAL)

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

**SELECTIVITY:** None

**POWER SOURCE:** 6V Storage Battery

**SIMILAR SETS:** None

**POWER OUTPUT:** (Watts)

**TUBES (TYPE AND NUMBER):**

- VT-66
- VT-166
- VT-91
- VT-92
- VT-126
- VT-125

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

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

**RANGE:** Medium

**TO COMMUNICATE WITH:**

**TO REPLACE IN PART:** None

**TRANSPORTATION:** Ground

**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>Remote Control Unit</td>
<td>99&quot; x 23&quot; x 20&quot;</td>
<td>50#</td>
<td></td>
</tr>
<tr>
<td>Antenna</td>
<td>24&quot; x 26&quot;</td>
<td>17#</td>
<td></td>
</tr>
<tr>
<td>Radio Receiver, BD-903</td>
<td>6&quot; x 6&quot;</td>
<td>4#</td>
<td></td>
</tr>
<tr>
<td>Target Trans., BD-904</td>
<td>8 1/4&quot; x 6&quot; x 6&quot;</td>
<td>21 1/2#</td>
<td></td>
</tr>
<tr>
<td>Toner Tr-18</td>
<td>2&quot; x 6&quot;</td>
<td>70#</td>
<td></td>
</tr>
<tr>
<td>Including series of sheets, batteries, vibrator etc.</td>
<td></td>
<td>290#</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME OF COMPONENTS:**

**SHIP Tonnage:**

---

**Page 48**

**This sheet is classified: RESTRICTED**
SCR-263

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (Kc) 200 to 1,750 (in 3 bands)
NUMBER OF CRYSTALS: 9

PART B - TACTICAL CHARACTERISTICS

USE: Provides visual, bidirectional, 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 indications 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 & OFF.

PART C - PRINCIPAL COMPONENTS

ITEM | DIMENSIONS | WEIGHT
--- | --- | ---
80-443-A Radio Compass Unit | 2 7/8 x 12 | 12.0

SHIP TONNAGE: 0.0445 T

COMBINED VOLUME: 53.27 CM

COMBINED WEIGHT OF COMPONENTS: 54.59
SCR-269

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (Ka) 200 to 1,750 Kc.

Antenna: 5 ft. Loop & Fixed Vertical Part with Unit on the Remote Control Positions and Automatic Rotation.

TUNING: (MD OR ITAL) MD

SENSITIVITY: DESELECTIVITY

POWER SOURCE: 24 VOLT BATTERY, 12 VOLT BATTERY.

SIMILAR SETS: SCR-263 EXCEPT AUTOMATIC FEAT.

POWER OUTPUT: (Watts) Receiver only.

TUNERS (Type and Number) SCR-269-A SHOWN:
2 VT-68
1 VT-96
1 VT-96
1 VT-95

PART B - TACTICAL CHARACTERISTICS


RANGE (MILES):

TO COMMUNICATE WITH:

TO REPLACE IN PARTS SCR-262, 263, 269

TRANSPORTATION: AIRCRAFT INSTALLATION

TYPE OF SIGNAL: OH, MR, Voice.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM | DIMENSIONS | WEIGHT | CLASSIFICATION
--- | --- | --- | ---
| | | | |
| | | | |
SCR-273

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (KHz) 150 to 1,500 covered in 3 ranges.
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES:
ANTENNA: 3Ef loop and fixed omnidirectional antenna. Rotatable loop with two remote control positions.
TUNING: (MD or XTAL) MD
SENSITIVITY: SELETIVITY:
POWER SOURCES: 12 to 15 volts DC
POWER OUTPUT (Max) Receiver only.
TUBES: (Type and Number) SCR-273-A uses: 1 BC-415-A
1 - 6B6 1 - 6V5
1 - 6H7 1 - 6H8
1 - 6A7 1 - 6A7

PART B - TACTICAL CHARACTERISTICS


RANGE: (MILES)

TO COMMUNICATE WITH:
TO REPLACE IN PART:
TRANSPORTATION: AIRCRAFT INSTALLATION.
TYPE OF SIGNAL: CW, MOR, 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>Radio Compass Unit 80-413-A</td>
<td>7 7/8 12 19 13/16</td>
<td>82.00</td>
<td></td>
</tr>
<tr>
<td>2 Radio Control Box 80-413-A</td>
<td>7 1/2 7 1/2 15 15/16</td>
<td>4 ea.</td>
<td></td>
</tr>
<tr>
<td>Loop Lp-19-A</td>
<td>25 5/8 15 1/2 9</td>
<td>7.06</td>
<td></td>
</tr>
<tr>
<td>2 Compass Indicator 1-45-C</td>
<td>3 1/4 3 1/4 3 25/32</td>
<td>1.75</td>
<td></td>
</tr>
<tr>
<td>Indicator 1-75A</td>
<td>5 1/8 5 1/8 2 11/16</td>
<td>1.85</td>
<td></td>
</tr>
<tr>
<td>Relay Bx-23-A</td>
<td>11 7 3</td>
<td>5.94</td>
<td></td>
</tr>
</tbody>
</table>

NOTES: DUE TO VARIATIONS IN AIRCRAFT INSTALLATIONS, BOTH WEIGHTS AND VOLUMES OF COMPLETE SETS VAR Y CONSIDERABLY AND THE FIGURES SHOWN ARE THEREFORE APPROXIMATE.

COMBINED WEIGHT OF COMPONENTS: 72.18
COMBINED VOLUME: 12" 7 7/8" 19 13/16" 5750.25 cu.in.
SHIP TONNAGE: 0.005 T
PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (AM) 195 TO 1420
NUMBER OF CRYSTALS: None
PEAK FREQUENCIES:
ANTENNA: 20 LOOP AND UNIDIRECTIONAL FIXED ANTENNA.
TUNING: (MO OR XTAL) MD
SENSITIVITY:
SELECTIVITY:
POWER SOURCE: 24 TO 28 VOLS DC AND DP-33-A.
SIMILAR SETS: SCR-276-A EXCEPT SCR-276 24k = 28 VOLT SUPPLY.
POWER OUTPUT: (Watts)
TUBES: (Type and Number) SCR-276-A uses 1 BC-385-A.
1 = 6C7
2 = 6L6
3 = 6D7
2 = 680
2 = 646

PART B - TACTICAL CHARACTERISTICS

U.S.E.: NAVIGATIONAL INSTRUMENT, PROVIDES SIGNAL, 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 AURAL PERCEPTION OF MODULATED RADIO SIGNALS. ALSO SUPPLIES VOLTAGE TO.NaNER SEASON RECEIVER.

RANGE: (Miles)
TO COMMUNICATE WITH:
TO REPLACE IN PAR:
TRANSPORTATION: AIRCRAFT INSTALLATION.
TYPE OF SIGNAL: CW, MOR

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compass Indicator I-T3-A</td>
<td>3 1/4 x 3 1/4 x 3 17/32</td>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>Flexible Conduit Assembly &amp; Junction Box</td>
<td>25 3/16 x 11 3/32 x 9</td>
<td>6.22</td>
<td></td>
</tr>
<tr>
<td>Loop LI-17-A</td>
<td>8 x 8 x 15 3/8</td>
<td>26.1</td>
<td></td>
</tr>
<tr>
<td>Radio Compass Unit BC-385-A</td>
<td>5 3/4 x 5 1/8 x 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 complete sets vary considerably and the figures shown are therefore approximate.

COMBINED WEIGHT OF COMPONENTS: 56.22
COMBINED VOLUME: 8 x 8 x 15 3/8 = 566.2
SHIP TONNAGE: .0212 t
**SCR-277**

**NOMENCLATURE DESIGNATION**

**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**: (MD or XTAL) MD
- **SENSITIVITY**: Not specified
- **SELECTIVITY**: Not specified
- **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 (907)
- 1 VT-151 (614)
- 1 VT-115 (545)
- 2 VT-43-A 685/566-A
- 2 VT-43-A F-072-A

**PART B - TACTICAL CHARACTERISTICS**

- **USE**: High power mobile radio range station for radio guidance of aircraft. Uses A and B settings.

- **RANGE**: At least 300 miles.

- **TO COMMUNICATE WITH**: Any 0.2 - 0.4 MHz receiver.

- **TO REPLACE IN PARTS**: None

- **TRANSPORTATION**: Mobile in K-29 trailer.

- **TYPE OF SIGNAL**: CW, M0X, VOICE.

**PART C - PRINCIPAL COMPONENTS**

- **WEIGHT**: 1410
- **CLASSIFICATION**: Restricted

<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 50-469</td>
<td>33&quot;</td>
<td>21&quot;</td>
<td>16&quot;</td>
<td>1410</td>
<td>Restricted</td>
</tr>
<tr>
<td>Synchronizer Unit 50-468</td>
<td>14&quot;</td>
<td>22&quot;</td>
<td>29&quot;</td>
<td>2540</td>
<td>Restricted</td>
</tr>
<tr>
<td>MAST MA-4-4-A</td>
<td>76&quot;</td>
<td>7&quot;</td>
<td>8'3&quot;</td>
<td>2500</td>
<td>Restricted</td>
</tr>
<tr>
<td>Power Unit PE-90</td>
<td>51&quot;</td>
<td>36&quot;</td>
<td>35&quot;</td>
<td>10700</td>
<td>Restricted</td>
</tr>
<tr>
<td>Radio Transmitter 50-447</td>
<td>43&quot;</td>
<td>92&quot;</td>
<td>22&quot;</td>
<td>5500</td>
<td>Restricted</td>
</tr>
<tr>
<td>Trailer K-29</td>
<td>200&quot;</td>
<td>76&quot;</td>
<td>106&quot;</td>
<td>35500</td>
<td>Restricted</td>
</tr>
<tr>
<td>Radio Receiver 50-342</td>
<td>18&quot;</td>
<td>9&quot;</td>
<td>10&quot;</td>
<td>610</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 70000

**COMBINED VOLUME OF COMPONENTS**: 075 cu ft

**SHIP TONNAGE**: 3-5
**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (KHz) 200 to 1,750 covered in 5 bands.

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:**

**ANTENNA:** 30 Loop and Fixed Nondirectional (manually operated)

**TUNING:** (MO or XTAL) MD

**SENSITIVITY:** SELECTIVITY

**POWER SOURCE:** 12 volts DC

**SIMILAR SETS:** SCR-265 which operates from 360 to 2,000 volt power source SCR-275-A except frequency.

**POWER OUTPUT** (Watts) Reception only.

**TUBES** (Type and Number) SCR-265-A Uses:

- 1 - 6L6
- 1 - 645
- 1 - 6F7
- 1 - 6X7
- 1 - 807

---

**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 Compress Unit BD-431-A</td>
<td>7 7/8 x 12 x 19 13/16</td>
<td>22.0</td>
<td></td>
</tr>
<tr>
<td>2-Radio Control Box BD-432-A</td>
<td>7 1/2 x 7 1/2 x 13 15/16</td>
<td>4.0</td>
<td>(U.S. NAVY)</td>
</tr>
<tr>
<td>Loop LP-13-A</td>
<td>25 3/8 x 13 1/2 x 9</td>
<td>7.06</td>
<td></td>
</tr>
<tr>
<td>2-Compass Indicator 1-65-C</td>
<td>3 1/8 x 5 1/2 x 9 9/16</td>
<td>4.9</td>
<td>(U.S. NAVY)</td>
</tr>
<tr>
<td>Indicator 1-75</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 73.84 lbs.

**COMBINED VOLUME:** 465 cu. in. APPROX.

**SHIP TOLLAGE:** 0.0350 T
### SCR-282

**PART A - TECHNICAL CHARACTERISTICS**

- **Classification:**
- **Frequency Range:** 150 - 1,500 kHz
- **Number of Crystals:** N/A
- **Selectivity:**
- **Power Source:** 24 - 28 volts DC, aircraft battery
- **Similar Sets:** SCR-232 which uses 52 volt power source
- **Tubes:** (Type and number)
  - 1 x VT-64
  - 1 x VT-66
  - 1 x VT-67
  - 1 x VT-55
  - 2 x VT-94

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** To provide aerial reception of modulated radio frequency energy on visual, uni-directional, right-left indication of the duration of arrival of radio frequency energy with respect to the plane of the loop and simultaneous "on squares", aerial reception of modulated radio frequency.
- **Range:** (Miles)
- **To Communicate With:**
- **To Replace in Parts:** SCR-184
- **Transportation:** Aircraft installation
- **Type of Signal:** CB & NBN

**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 Compass Unit NG-310</td>
<td>7 x 12 x 20 1/2</td>
<td>65.3</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box NC-311</td>
<td>7 1/2 x 7 1/2 x 5 15/16</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>Loop LP-160-C</td>
<td>7 1/2 x 7 1/2 x 5 15/16</td>
<td>7.7</td>
<td></td>
</tr>
<tr>
<td>Indicator I-75-A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</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:**

**Combined Volume:**

**Ship Tonnage:**

---

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SCR-287

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 1.5 - 18 Mc. 360 - 380 Mc.; 1500 Mc.
NUMBER OF CRYSTALS: 16
PRESET FREQUENCIES: None
ANTENNA: Trailing Wire Antenna.
TUNING (NO OR XTAL): Yes
SENSITIVITY: SELECTIVITY:
POWER SOURCE: 25 volts, DC and PE-75
SIMILAR SETS: SCR-187 EXCEPT 12 V.
POWER OUTPUTS (WATTS) 60 @ 12 Mc.; 30 @ 1.5 Mc.
TUBES: (TYPE AND NUMBER) SCR-287-A USES:
TRANSMITTER UNIT: VT-25
RECEIVER UNIT: VT-85
VT-85
VT-85
VT-85
VT-85

PART B - TACTICAL CHARACTERISTICS

USE: Airdrome Liaison Set, Air-to-Surface, Air-to-Ground Communication.
RANGE: (MILES) 50 TO SEVERAL HUNDRED MILES.
TO COMMUNICATE WITH: SCR-188, SCR-193, SCR-197 AND SCR-259.
TO REPLACE IN PART:
TRANSPORTATION: INSTALLED IN AIRCRAFT.
TYPE OF SIGNAL: CW; MORSE CODE.

PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver BC-546-A</td>
<td>10/10</td>
<td>35.2</td>
</tr>
<tr>
<td>Radio Transmitter BC-375-A</td>
<td>32/8/3</td>
<td>55</td>
</tr>
<tr>
<td>Antenna Tuning Unit BC-306-A</td>
<td>11/2</td>
<td>9.75</td>
</tr>
<tr>
<td>Dynamotor Unit PE-75-B</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-5-A</td>
<td>16 3/8</td>
<td>13</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-6-A</td>
<td>16 3/8</td>
<td>13</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-7-A</td>
<td>16 3/8</td>
<td>13</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-8-A</td>
<td>16 3/8</td>
<td>13</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-9-A</td>
<td>16 3/8</td>
<td>13</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-10-A</td>
<td>16 3/8</td>
<td>13</td>
</tr>
<tr>
<td>Transmitter Tuning Unit TU-20-A</td>
<td>16 3/8</td>
<td>13</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.
# SCR-288

## Part A - Technical Characteristics

<table>
<thead>
<tr>
<th>Classification</th>
<th>Frequency Range (Trans): 5.45 - 6.3 (MHz)</th>
<th>Number of Crystals:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Preset Frequencies:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Antenna: 35' straight insulated wire with</td>
<td></td>
</tr>
<tr>
<td></td>
<td>counterpoise.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tuning: (MG or XTAL) MG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sensitivity:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Source:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tuner, Generator, or dry batteries.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Output:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Similar Sets: SCR-256, SCR-258</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tuners (Type and Number): SCR-260 Users:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 VT-107</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 VT-116</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 VT-127</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 VT-136</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 VT-149</td>
<td></td>
</tr>
</tbody>
</table>

## Part B - Tactical Characteristics

<table>
<thead>
<tr>
<th>Classification</th>
<th>Use: LEP, R, RST, BN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FT: Div, Ant, RST, BN</td>
</tr>
<tr>
<td></td>
<td>ST: CI, CI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range: (Miles)</th>
<th>Stationary: 50 using CW; 15 using voice</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>To Communicate with: SCR-151; SCR-167; SCR-195; SCR-258; SCR-258</td>
</tr>
<tr>
<td></td>
<td>To Replace in Part: SCR-151; 167; 171</td>
</tr>
<tr>
<td></td>
<td>Transportation: 2 man load</td>
</tr>
<tr>
<td></td>
<td>Type of Signal: CW; VOICE</td>
</tr>
</tbody>
</table>

## Part C - Principal Components

<table>
<thead>
<tr>
<th>Classification</th>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Radio Trans. &amp; Recvr.- SCR-274</td>
<td>10 x 3 1/2 x 7 1/2</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**

---

This sheet is classified: Unclassified.
SCR-291

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

FREQUENCY RANGE: (MHz) 2 - 10
NUMBER OF CRYSTALS: Does not apply
PRESET FREQUENCIES: Does not apply
ANTENNA: Modified U Shape
TUNING: (NO OR XTAL) Does not apply
SENSITIVITY: 10 microvolts/meter for 10dB SIGNAL/NOISE RATIO.
SELECTIVITY:
POWER SOURCE: 110V, AC PORTABLE GENERATOR
(Suitable - 85A)
SIMILAR SETS: SCR-362
POWER OUTPUTS (WATTS) Does not apply
TUBES: (TYPE AND NUMBER) See Note #

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

USE: To direct flight of friendly planes and detect direction of enemy transmitters, particularly aircraft.
RANGE: Long
TO COMMUNICATE WITH: Does not apply.
TO REPLACE IN PART: SCR-551 IN PART.
TRANSPORTATION: Air
TYPE OF SIGNAL: Does not apply.

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</td>
<td></td>
<td>100#</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>200#</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>300#</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>400#</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>500#</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>600#</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>700#</td>
<td></td>
</tr>
</tbody>
</table>

SHIP TONNAGE: 1000#
SCR-293

NOMENCLATURE
DESIGNATION

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 20.0 - 27.9

NUMBER OF CRYSTALS: 5 in Receiver, 5 in Trans., 5 preset frequencies: 5

ANTENNA: 9' flexible 360° type to be mounted on turret (with 21' extension for lower power).

TUNING (MG or XTL) XTL

SENSITIVITY: Selectivity

POWER SOURCE: 12 or 28 V - vehicular battery.

SIMILAR SETS: SCR-500

POWER OUTPUT: (watts) high power-25 watts, low power-1/2 watt

TUBES: (Type and Number) SCR-299-A uses

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Height</td>
<td>Width</td>
</tr>
<tr>
<td>Line Trans., Recvr., Type 25 UFX, and separate</td>
<td>12 x 15&quot; x 1/8&quot;</td>
<td>150 lbs</td>
</tr>
<tr>
<td>Item</td>
<td>to be placed in left corner of light tank (2.6 cu.f.)</td>
<td></td>
</tr>
</tbody>
</table>

PART B - TACTICAL CHARACTERISTICS

USE: AF in tank units up to yrs.

RANGE (miles): 5 mobile, 7 stationary.


TO REPLACE IN PARTS: SCR-199, SCR-203.

TRANSPORTATION Type

TYPE OF SIGNAL: Voice (FM)

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION RESTRICTED

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP Tonnage:

THIS SHEET IS CLASSIFIED UNCLASSIFIED
PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION

FREQUENCY RANGE: (MHz) 26.0 - 27.9 (Receiver Only)
NUMBER OF CRYSTALS: 5 (Receiver)
PRESET FREQUENCIES: 5
ANTENNA: 9' Fiberglass (AM-42-A)
TUNING: (MO or XTAL)
SENSITIVITY: SELECTIVITY
POWER SOURCE: 12 or 24 V D.C. BATTERY
SIMILAR SETS: SCR-358
POWER OUTPUTS: (Watts)
TUBES: (Type and Number) SCR-294-A used:
  2 12BA
  2 12C
  2 12F
  1 12Q7

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION

RANGE: (MILES)
NUMBER OF CRYSTALS: 5

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADIO Receiver SCR-605</td>
<td>UNCLASSIFIED</td>
</tr>
<tr>
<td>COMBINED WEIGHT OF COMPONENTS:</td>
<td>56#</td>
</tr>
<tr>
<td>COMBINED VOLUME:</td>
<td>0.5 CUBIC FT</td>
</tr>
<tr>
<td>SHIP Tonnage:</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.
SCR-298

NOMENCLATURE
DESIGNATION

NOTE: SEE INDIVIDUAL SECTIONS
FOR SECTION CLASSIFICATION

STATUS: STANDARD
CHANGE IN
STATUS:

INSTRUCTIONAL LITERATURE:

SCR-298

PART A - TECHNICAL CHARACTERISTICS
(CATEGORIZATION)

FREQUENCY RANGE: (MHz) 30 - 120
NUMBER OF CRYSTALS: 1
PRESET FREQUENCIES: 1 (no selection)
ANTENNA: Whip
TUNING: (NO OR XTAL) XTAL
SENSITIVITY: SELECTIVITY
POWER SOURCE: 6 V SEPARATE BATTERY,
SIMILAR SETS: SCR-295
POWER OUTPUTS (Watts) 25
TUBES: (TYPE AND NUMBER) EARLY MODEL USERS:
1 Early Line 11-UF Model, REG.
2 6AL5G/1852; 2 6857; 2 6M6; 1 6166; 1 5565T,
1 Early Line 25-UF Model, TRANS.
2 746; 2 705; 1 97T,
NOTE: INFORMATION AVAILABLE AS SCR-298 LATE
MODEL USERS: 1 350UF (ED 2 OR 3) 1 110UF (ED 3)

PART B - TACTICAL CHARACTERISTICS
(CATEGORIZATION)

USE: Used by military personnel.
RANGE (MILES) Stationary=10; Moving=7.
TO COMMUNICATE WITH: SCR-600; SCR-609; SCR-610;
SCR-620; SCR-628; SCR-528;
TO REPLACE IN PARTS:
TRANSMISSION: VEHICLE
TYPE OF SIGNAL: Voice (FM)

PART C - PRINCIPAL COMPONENTS
(CLASSIFICATION)

<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. 25-UFM</td>
<td>9 x 17</td>
<td>8 1/4&quot;</td>
<td>29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resv. 11-UF</td>
<td>9 x 13</td>
<td>7 1/2&quot;</td>
<td>17 1/2&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Unit YPA-3A</td>
<td>8 1/2&quot;</td>
<td>4 1/4&quot;</td>
<td>5</td>
<td>7 1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS:

COMBINED VOLUME:

SHIP TONNAGE:

ENGINEER'S DRAWING OF SCR-298 COMPONENTS, SHOWING INTERCONNECTIONS.
# SCR-300

## Nomencature Designation

### Part A - Technical Characteristics

<table>
<thead>
<tr>
<th>Classification</th>
<th>Frequency Range</th>
<th>Number of Crystals</th>
<th>Pre-set Frequencies</th>
<th>Antenna Telescope Type</th>
<th>Tuning (HD or STAL)</th>
<th>HD Selectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(MHz)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.0 - 18.0</td>
<td>2</td>
<td>None</td>
<td>HD</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

### 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-154 and SCR-193

### Power Outputs
- (Watts) approximately 1

### Tubes (Type and Number)
- SW: Portable, 1 BC-1000 tubes
  - 1 = 1-3-5
  - 2 = 3-4-6
  - 3 = 5-1-4

## Part B - Tactical Characteristics

### Unclassified Formations
- Infantry, Field Artillery, Coast Artillery, Advanced Field Artillery, Coast Artillery and Infantry Units.

### Range
- (Miles) 3 to 5.

### To Communicate With
- SCR-300 only.

### To Replace In Part
- SCR-154 and SCR-193.

### Transportation
- Min-Pack.

### Type of Signals
- FM - Ultra.

## Part C - Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver and Transmitter BC-1000</td>
<td>13&quot; x 10&quot; x 6&quot;</td>
<td>17W</td>
</tr>
<tr>
<td>Battery BA-70</td>
<td></td>
<td>15W</td>
</tr>
<tr>
<td>Battery BA-60</td>
<td></td>
<td>15W</td>
</tr>
<tr>
<td>Antenna MA-130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antenna MA-135</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Combined Weight of Components
- 1000

### Combined Volume of Components
- 0.0572

### Ship Tonnage
- 0

---

This sheet is classified: **UNCLASSIFIED**

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[[Image: https://upload.wikimedia.org/wikipedia/commons/thumb/8/84/SC-300_instructional_literature.png/320px-SC-300_instructional_literature.png]]

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[Image: https://upload.wikimedia.org/wikipedia/commons/thumb/8/84/SC-300_instructional_literature.png/320px-SC-300_instructional_literature.png]
### SCR-499

#### Nomenclature Designation

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** 10 MHz, 20.0 - 30.0 MHz
- **Number of crystals:** 36
- **preset frequencies:** 3
- **Antenna:** whip or long wire
- **Tuning:** (MO or XTAL) both
- **Sensitivity:**
- **Selectivity:**
- **Power source:** 110 volts, 60 cycles, single phase or PE-75

**Similar sets:** SCR-177-1; SCR-187-1; SCR-198-1

**Power supply:** 110 volts, 50 cycles, single phase

**Tubes:**

<table>
<thead>
<tr>
<th>Type and Number</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6C6P</td>
<td>2</td>
</tr>
<tr>
<td>6C6</td>
<td>2</td>
</tr>
<tr>
<td>6L6</td>
<td>2</td>
</tr>
<tr>
<td>6L5</td>
<td>2</td>
</tr>
<tr>
<td>6S4</td>
<td>1</td>
</tr>
<tr>
<td>6E8A</td>
<td>1</td>
</tr>
<tr>
<td>6B8A</td>
<td>1</td>
</tr>
<tr>
<td>6B8B</td>
<td>1</td>
</tr>
<tr>
<td>6P6</td>
<td>1</td>
</tr>
<tr>
<td>6E5G</td>
<td>1</td>
</tr>
<tr>
<td>6E7B</td>
<td>1</td>
</tr>
<tr>
<td>6E7C</td>
<td>1</td>
</tr>
</tbody>
</table>

**Dimensions:**

- **Height:** 20 inches
- **Width:** 20 inches
- **Depth:** 20 inches

**Weight:** 200 pounds

**Classification:**

- **Type of signal:** OR Voice

**TRANSPORTATION:**

Components packed for airborne shipment. (No shelter or trailer provided)

**Type of signals OR Voice (Am):**

- **Range:** 200 miles, 100 voice

**TO COMMUNICATE WITH:**

- SCR-177
- SCR-178
- SCR-179
- SCR-187
- SCR-188
- SCR-189
- SCR-197
- SCR-198
- SCR-199

**TO REPLACE IN PART:**

- SCR-299

**INSTRUCTIONAL LITERATURE:**

- TM 11-301

---

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Height (in)</th>
<th>Width (in)</th>
<th>Depth (in)</th>
<th>Weight (lbs)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans. 60-610</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Receiver 60-512, 60-362</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Speech Amplifier 60-614-6C</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Ant./Tuning Unit 60-369</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-75</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>Junction Box 36-70</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

**Combined weight of components:** 200 pounds

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

FREQUENCY RANGES: (MHz) 1 - 2.0
NUMBER OF CRYSTALS: None
PRESET FREQUENCIES: None
ANTENNA: Crossed Loops
TUNING: (NO OR XTAL) Does not apply
Sensitivity: 5 - 25 microvolts/meter
SELECTIVITY: Power Source: 12V Storage Battery
SIMILAR SETS: SCR-206
POWER OUTPUTS: (WATTS) Does not apply
TUBES: (TYPE AND NUMBER)

Lox Freq. Units High Freq. Units
2 VT-161 24 VT-107
6 VT-205 24 VT-215
1 VT-125 2 VT-163
2 VT-122 2 VT-162
1 VT-135 4 VT-209

PART B - TACTICAL CHARACTERISTICS

USE: A PORTABLE DIRECTION FINDER FOR FIELD USE IN LOCATING ENEMY TRANSmitters.
RANGE: Short
TO COMMUNICATE WITH: Does not apply.
TO REPLACE IN PART: SCR-206
TRANSPORTATION: Portable
TYPE OF SIGNAL: Does not apply

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>Antenna Box M-355</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>6.5#</td>
<td></td>
</tr>
<tr>
<td>Loop LP-25</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>6.0#</td>
<td></td>
</tr>
<tr>
<td>Loop LP-55</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>6.5#</td>
<td></td>
</tr>
<tr>
<td>Receiver RC-1003</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>12#</td>
<td></td>
</tr>
<tr>
<td>Receiver RC-975</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>12#</td>
<td></td>
</tr>
<tr>
<td>Battery, Stored 12V</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>12#</td>
<td></td>
</tr>
<tr>
<td>Tripper LD-15</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>12#</td>
<td></td>
</tr>
<tr>
<td>Dynamotor EM-155</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>12#</td>
<td></td>
</tr>
<tr>
<td>Battery Chest CH-113</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>3&quot;</td>
<td>12#</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: Including Brackets, Chests, Covers, etc. 197# 27
COMBINED VOLUME OF COMPONENTS: 4.5 cu ft.

SHIP TONNAGE:
## SCR-504

### PART A - TECHNICAL CHARACTERISTICS

**Classification:**

- **Frequency Range:** 0.1 - 65 MHz
- **Number of Crystals:** None
- **Preset Frequencies:** None
- **Antenna:** Loop
- **Tuning:** (MD or XTAL) Does not apply
- **Sensitivity:** 50 - 200 microvolts/meter
- **Selectivity:**
- **Power Source:** Miniature storage battery (88-51, 88-52)
- **Similar Sets:** None
- **Power Output (Watts):**
- **Tubes (Type and Number):**
  - 1 XHE, 1 VT-177
  - 1 VT-176, 1 VT-179

### PART B - TACTICAL CHARACTERISTICS

**Classification:**

- **Use:**
  - This equipment is intended to be used for intelligence purposes, particularly for the specific location of unauthorized transmitters.
- **Range:** Short
- **To Communicate With:** Does not apply
- **To Replace in Part:**
- **Transportation:** Portable
- **Type of Signal:** Does not apply

### 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 BD-792</td>
<td>6&quot; x 10&quot; x 13&quot;</td>
<td>25#</td>
<td></td>
</tr>
<tr>
<td>Battery Charger PE-126</td>
<td>9 3/4&quot; x 12&quot; x 8&quot;</td>
<td>16#</td>
<td></td>
</tr>
<tr>
<td>Headset JV-34</td>
<td></td>
<td>1 oz.</td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 55#

**Combined Volume of Components:**

---

**Radio Set SCR-504:

Radio Receiver BD-792, a hand portable direction finder, mounted in suit case and ready for operation. Showing extended sense antenna, external controls and miniature headset of the hearing-aid type. Battery charger PE-126 is used as part of set but is not necessarily taken along with receiver on operating missions.**
### PART A - TECHNICAL CHARACTERISTICS

**CLASSIFICATION**: 1

**FREQUENCY RANGE**: (MHz) Trans. 2-4.5; Reprn. 2-6

**NUMBER OF CRYSTALS**: 1 (XTAL CALIBRATOR)

**PRESET FREQUENCIES**: 4

**ANTENNA**: 15' FISHPOLE TO BE USED WHILE MOVING, WITH 10' EXTENSION TO BE USED WHILE AT A HALT.

**TUNING**:
- (MO on XTAL) MD
- (MO input)

**SENSITIVITY**: SELECTIVITY

**POWER SOURCE**: VEHICULAR POWER SYSTEM 12 or 24 V.

**SIMILAR SETS**:
- POWER OUTPUT (Watts) 100 CW; 25 WATT VOICE
- TUBES (Type and Number)
  - SCR-506 A/B: 1-6S5; 1-6S6; 1-6S7
  - 1-6S5 A/B; 1-6S6 A/B; 1-6S7 A/B; 1-12 A/B; 1-12 BC; 1-12 B/C; 1-12 CD; 1-12 DE; 1-12 FD

**NOTES**: 506 A also listed; has 10 tubes, also (IDENTICAL WITH SCR-506 SHOWN ABOVE)

### PART B - TACTICAL CHARACTERISTICS

**CLASSIFICATION**: 1

**USE**: TD; ASSM F; Cav; Engr; FA; SFA C; USED IN LIGHT TANK M-3 & IN OTHER ARMORED VEHICLES

**RANGE**: (MILES) 70 CW; 35 VOICE

**TO COMMUNICATE WITH**: SCR-151; SCR-171; SCR-187; SCR-193; SCR-255; SCR-265; SCR-295; SCR-297.

**TO REPLACE IN PART**: SCR-193 in AF

**TRANSPORTATION (Air or Rail OR)**: IN VEHICLE IN WHICH SET IS INSTALLED

**TYPE OF SIGNAL**: CW; 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>TRANSMITTER SC-653</td>
<td>13 1/16&quot;</td>
<td>4 5/16&quot;</td>
<td>170</td>
</tr>
<tr>
<td>RECEIVER SC-658</td>
<td>33 1/8&quot;</td>
<td>14 1/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**:

**COMBINED VOLUME**:

**SHIP TONNAGE**:

---

**NOTE**: This sheet is classified: UNCLASSIFIED

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**INSTRUCTIONAL LITERATURE**: TM 11-650

**STATUS**: 19 Dec 41

**STANDARD**: STAND 19 Dec 41

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

**NOMENCLATURE DESIGNATION**: SCR-506
SCR-508

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 20.0 to 27.9
NUMBER OF CRYSTALS: 80
PRESET FREQUENCIES: 10 (Push Button Selection)
ANTENNA: 9 ft. Fishpole
TUNING: (MO or XTAL) XTAL
SENSITIVITY: SELECTIVITY
POWER SOURCE: 12 or 24 VOLT BATTERY
SIMILAR SETS: SCR-506 EXCEPT FREQUENCY
POWER OUTPUT: (Watts) 25 100% MODULATION
TUBES: (Type and Number) BC-603-C Receiver 1 Tube
Type 6 H 6 G 1 Tube Type 6 J 5 G 3 Tube Type
6 Y 6 ST 3 Tubes Type 6 A 5 G 2 Tubes Type
12 BC 7 T Tubes Type 6 SL 7 CT BC-603-C Trans-
mitter 7 Type 1019 Tubes 1 Type 1604 Tubes

PART B - TACTICAL CHARACTERISTICS

USE: Armored Force, Field Artillery, Installation in Command Tents and Vehicles of
AF, OR, CORPS and DIVISIONS where it is necessary to Monitor 2 Frequencies
Simultaneously.

RANGE: (Miles) 7 IN MOTION.

TO COMMUNICATE WITH: SCR-293; SCR-294; SCR-506;
SCR-509; SCR-510; SCR-528; SCR-530.

TO REPLACE IN PARTS: SCR-193; SCR-265; SCR-293.

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>Transmitter BC-606</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receiver (2) BC-603</td>
<td>10 lbs.</td>
<td>20 lbs.</td>
<td></td>
</tr>
<tr>
<td>Mounting Base FT-297</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vehicle Antenna</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 18 lbs.
COMBINED VOLUME OF COMPONENTS: 1038 cu. in.
SHIP Tonnage:
**SCR-509**

### PART A - TECHNICAL CHARACTERISTICS

- **Frequency Range:** 20.1 - 27.9 MHz
- **Number of Crystals:** 80
- **Preset Frequencies:** 2
- **Antenna:** 8 ft, fiberglass (ANT. AN-150)
- **Tuning:** (NO OR XTL) XTL
- **Sensitivity:**
- **Selectivity:**
- **Power Source:** Dry Batteries: BA-39; BA-40; BA-41
- **Similar Sets:** SCR-510
- **Power Output (Max):** 1.8 W, 100% Modulation
- **Tubes (Type and Number):** SCR-509-A uses:
  - 1 BD-420
  - 4 1BG6
  - 1 1BD9; 1 12SG3; 1 1291
  - 1 1UC6; 2 1251

### PART B - TACTICAL CHARACTERISTICS
- **Use:** Arm and Force; In Field
  - Short Range OCDHdivide; CC; FD
  - Short Range Reconnaissance and Similar Missions
- **Range:** Miles 5 on ground
- **To Communicate With:** SCR-295; SCR-296; SCR-510; SCR-520; SCR-550
- **To Replace In Part:** SCR-195 within the Armored Force
- **Transportation:** Man or Foot or In Any 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>Radio Receiver &amp; Transmitter RD-220</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**

---

This sheet is classified: UNCLASSIFIED

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Original from UNIVERSITY OF CALIFORNIA
**SCR-510**

**PART A - TECHNICAL CHARACTERISTICS**

CLASSIFICATION:

- **FREQUENCY RANGE**: 20.0 - 27.9 MHz
- **NUMBER OF CRYSTALS**: 80
- **PRESET FREQUENCIES**: 2
- **ANTENNA**: 8 ft. telescopic mast, and vertical whip
- **TUNING**: (No or XTAL) XTAL
- **SENSITIVITY**:
- **SELECTIVITY**:
- **POWER SOURCE**: Dry batteries or vibrator pack for operation from any 6 or 12 V vehicular battery.
- **SIMILAR SETS**: SCR-509 which uses dry batteries only.
- **POWER OUTPUT**: (Watts) 1.0 100% modulation.
- **TUBES**: (Type and Number) SCR-510-A uses 160-620-A, 3 TX5; 1 1229; 1 1291; 1 1281; 1 1281; 1 1281; 2 1291; 1 PE-97-A; 1 CV56-36; 1 CV565.

**PART B - TACTICAL CHARACTERISTICS**

CLASSIFICATION:

- **USE**: FA; ARMS TRG; MED; SC; BR; ANGR; S10; CR
- **ARMED ANGR**: F3 TDS Exec. Used by forward observers for liaison purposes.
- **RANGE**: (Miles) 3 in motion.
- **TO COMMUNICATE WITH**: SCR-293; SCR-295; SCR-508; SCR-509; SCR-510; SCR-528; SCR-530.
- **TO REPLACE IN PARTS**: SCR-195; SCR-195.
- **TRANSPORTATION**: Transported & operated in vehicle or carried by man on foot.
- **TYPE OF SIGNAL**: Voice (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>Radar, &amp; Trans. BC-620</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plate Supply Unit PE-97</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 650 lb

**COMBINED VOLUME**: 1,500 cu. ft.

**SHIP TONNAGE**:

---

**RADIO SET SCR-510 SHOWN SET INSTALLED IN RIGHT CENTER SECTION OF SCOUT CAR W 3 A 1**

Radio Set SCR-510 is the same as Radio Set SCR-509 except for the addition of vertical components. Short range, high frequency, omnidirectional radio set. Not also be used as short range mobile Command Set.
SCR-511

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION:

- FREQUENCY RANGE: (MHz) 3.0 - 6.0
- NUMBER OF CRYSTALS: 2 in each tuning unit; 13 tuning units/ set authorized
- PRESET FREQUENCIES: 1 tuning unit installed; 1 spare tuning unit carried with set
- ANTENNA: Telescope mast; this antenna actuates set's on-off switch when extended
- TUNING: (MD or XTAL) XTAL
- SENSITIVITY: Selectivity
- POWER SOURCE: Internal dry batteries DA-43
- SIMILAR SETS: None
- POWER OUTPUT: (Watts) 0.75
- TUNER (TYPE AND NUMBER): Radio Receiv. RF-11461; 1 SUNSET-0446
- UNITS (VOLTS): VT-1111; 6529 (VT-101); 696 (CF-VT-101); 696 (VT-1216; 4 6001; VT-1111; 6529 (VT-101); 696 (CF-VT-101); 696 (VT-1216)
- TRANSPORTATION: Man on foot, horse, or vehicle
- TYPE OF SIGNAL: Voice (AM)

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION:

- TO COMMUNICATE WITH:
- TO REPLACE IN PART:

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiv. &amp; Trans. BO-765</td>
<td></td>
</tr>
<tr>
<td>Tuning Unit BO-766</td>
<td></td>
</tr>
<tr>
<td>Power Supply Unit RC-157</td>
<td></td>
</tr>
<tr>
<td>Chest Unit T-39</td>
<td></td>
</tr>
<tr>
<td>Mounting FT-335</td>
<td></td>
</tr>
<tr>
<td>Battery DA-43</td>
<td></td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 200 lbs
COMBINED VOLUME: 0.5 cubic
## SCR-522

### Part A - Technical Characteristics

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case CS-80 containing</td>
<td></td>
<td>25 lb</td>
<td></td>
</tr>
<tr>
<td>Radio Transmitter</td>
<td>14 5/32' x 12 9/16' x 10 11/16'</td>
<td>25 lb</td>
<td></td>
</tr>
<tr>
<td>Radio Receiver</td>
<td>12 25/32' x 6 21/32' x 6 15/64'</td>
<td>19 lb</td>
<td></td>
</tr>
<tr>
<td>Dynamo PE-56</td>
<td>12 25/32' x 6 21/32' x 6 15/64'</td>
<td>27 lb</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box</td>
<td>5 7/8' x 5 9/16' x 2 1/2'</td>
<td>2.4 lb</td>
<td></td>
</tr>
</tbody>
</table>

### Part B - Tactical Characteristics

**Use:** Air Force - Used in all types of aircraft. For Air-to-Air; Air-to-Ground Communication.

**Range:** (Miles) 150 at 10,000 feet. (Line of Sight)

**Power Source:** 28 volts. Primary source and PE-56.

**Similar Sets:** SCR-522B, 512 volt version of SCR-522.

**Power Output:** Watts 6 watts voice.

**Tube:** Type and Number SCN-522-A includes 112 volt.

**Type of Signal:** Voice and special tone signal over used with contractor equipment PE-56.

### Part C - Principal Components

**Combined Weight of Components:** 95 lb approx.

**Combined Volume:** 1.2 cubic feet approx.
### SCR-536

#### PART A - TECHNICAL CHARACTERISTICS

1. **Frequency Range**: (MHz) 3.5 to 6.0
2. **Number of Crystals**: One transmitting and one receiving crystal required per channel.
3. **Present Frequencies**: One preset channel provided.
4. **Antenna**: 4l ft whip antenna - telescoped into set
5. **Receiver**: Tuned or driven by whip antenna is extended.
6. **Tuning**: (No or static) crystal.
7. **Sensitivity**: Selectivity
8. **Power Source**: Self-contained dry batteries.
9. **Similar Sets**: None
10. **Power Outputs (Watts)**: .02
11. **Tubes**: (Type and Number) 1 BC-611-B Transmitter, 1 1A 5 Tube; 1, 1.5 5 Tube; 1, 1 TL Tube; 2, 3 8 4 Tube.

#### PART B - TACTICAL CHARACTERISTICS

1. **Range**: (Miles) 1 1/2
2. **To Communicate With**: SCR-187; SCR-188; SCR-193; SCR-214; SCR-27; SCR-265; SCR-287; SCR-289.
3. **To Replace in Parts Nine.**
4. **Transportation**: Max Free
5. **Type of Signal**: Voice only. (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 and Transmitter BC-611</td>
<td>15 3/4&quot; x 5 3/8&quot; x 3 3/4&quot;</td>
<td>5.5#</td>
<td></td>
</tr>
</tbody>
</table>

Combined Weight of Components: 5#


Ship Tonnage: 0 #

---

**RADIO SET SCR-536**

This is a very compact receiver-transmitter resembling an oversized telephone hand set. Complete with batteries, antenna, transmitter, receiver, and hand set in one case.
### Part A - Technical Characteristics

**Frequency Range (Mc):** 20 to 27.9 (Receiver only)

**Number of Crystals:**

**Preset Frequency:** 10 - Push button selection

**Antenna:** 9 ft. Fishpole

**Tuning:** (NO or STAL)

**Sensitivity:**

**Selectivity:**

**Power Source:** Vehicle battery (12 V or 44 V)

**Similar Sets:**

**Power Output:** (Watts)

**Tubes:** (Type and Number) SCR-538 uses: 1-6C6-603; 1-6V6-603; 1-6V6-603; 1-6A6; 2-12AT7; 2-6L6; 2-6L6 2-665-2; 2-6906; 2-6906, 2-1619 tubes.

### Part B - Tactical Characteristics

**Uses:** Corp. Mroz & Wizs. Arm Fm Tacs and Maintenance units.

**Range:** (Miles)

**To Communicate With:** SCR-293; SCR-309; SCR-501; SCR-501; SCR-501; SCR-501.

**To Replace In Part:** SCR-293; SCR-293.

**Transportation:** Transporter and operated in vehicle

**Type of Signals Value (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>Receiver DD-603, Interphone Ant. DD-605</td>
<td>11 x 11 1/2 x 54</td>
<td>135</td>
<td></td>
</tr>
<tr>
<td>Mounting FT-237, Man Base MP-37 on 37</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SCR-551**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** 2.0 to 20.0 MHz
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** None
- **ANTENNAS:** None
- **TUNING:** (NO OR XTAL) Does not apply
- **SENSITIVITY:** 5 - 30 microvolts/meter
- **SELECTIVITY:**
- **POWER SOURCE:** 6V Storage Battery
- **SIMILAR SETS:** SCR-255, 535, 554
- **POWER OUTPUTS (Watts):**
  - VT-09: 1
  - VT-10: 1
  - VT-11: 1
  - VT-12: 1
  - VT-13: 1
  - VT-14: 1
  - VT-15: 1
  - VT-16: 1
  - VT-17: 1
  - VT-18: 1
  - VT-19: 1
  - VT-20: 1
  - VT-21: 1
  - VT-22: 1
  - VT-23: 1
  - VT-24: 1
  - VT-25: 1
  - VT-26: 1
  - VT-27: 1
  - VT-28: 1
  - VT-29: 1
  - VT-30: 1
  - VT-31: 1
  - VT-32: 1
  - VT-33: 1
  - VT-34: 1
  - VT-35: 1
  - VT-36: 1
  - VT-37: 1
  - VT-38: 1
  - VT-39: 1
  - VT-40: 1
  - VT-41: 1
  - VT-42: 1
  - VT-43: 1
  - VT-44: 1
  - VT-45: 1
  - VT-46: 1
  - VT-47: 1
  - VT-48: 1
  - VT-49: 1
  - VT-50: 1
  - VT-51: 1
  - VT-52: 1
  - VT-53: 1
  - VT-54: 1
  - VT-55: 1
  - VT-56: 1
  - VT-57: 1
  - VT-58: 1
  - VT-59: 1
  - VT-60: 1
  - VT-61: 1
  - VT-62: 1
  - VT-63: 1
  - VT-64: 1
  - VT-65: 1
  - VT-66: 1
  - VT-67: 1
  - VT-68: 1
  - VT-69: 1
  - VT-70: 1
  - VT-71: 1
  - VT-72: 1
  - VT-73: 1
  - VT-74: 1
  - VT-75: 1
  - VT-76: 1
  - VT-77: 1
  - VT-78: 1
  - VT-79: 1
  - VT-80: 1
  - VT-81: 1
  - VT-82: 1
  - VT-83: 1
  - VT-84: 1
  - VT-85: 1
  - VT-86: 1
  - VT-87: 1
  - VT-88: 1
  - VT-89: 1
  - VT-90: 1
  - VT-91: 1
  - VT-92: 1
  - VT-93: 1
  - VT-94: 1
  - VT-95: 1
  - VT-96: 1
  - VT-97: 1
  - VT-98: 1
  - VT-99: 1
  - VT-100: 1

**PART B - TACTICAL CHARACTERISTICS**

- **USE:** Radio direction finder for locating enemy transmitters and for navigational aid to friendly aircraft.

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-151 Control Line</td>
<td>12 1/2&quot;</td>
<td>2100#</td>
<td></td>
</tr>
<tr>
<td>VIBRATOR UNIT PE-151</td>
<td>20#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control Panel PH-21</td>
<td>250#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oscilloscope SO-991</td>
<td>300#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Receiver SO-974</td>
<td>400#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TUNER TR-51</td>
<td>60&quot;</td>
<td>6160#</td>
<td></td>
</tr>
<tr>
<td>AMMON Antenna</td>
<td>13&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHELTER HD-11</td>
<td>0&quot;</td>
<td>350#</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 2500#

**SHADOW VOLUMES OF COMPONENTS:**

**SHIP Tonnage:**

---

**INSTRUCTIONS:**
- **PREPARE FOR DIRECTION FINDING**
- **EQUIPMENT AND OPERATOR RETAIN ON TOP OF 15-FOOT TOWER. GIVEN DIRECTION WILL BE LEFT-RIGHT AND UP-DOWN INDICATION ON OSCILLOSCOPE.**
I--- ---
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|
|--- ---|

**UNIVERSITY OF CALIFORNIA**
**SCR-561**

**PART A - TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE:** (An) Control Set SCR-561 is the operations block of Control Set System SCR-2 and contains no radio equipment, housed in buildings not part of control set.

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:** None

**ANTENNA**

**TUNING (MO OR XTL) NO:**

**SENSITIVITY**

**SELECTIVITY**

**POWER SOURCE:** Power Unit PE-99 (75 kVA 110V, 5 phase 50 cycles) also provides for using commercial power from a 110V 2 wire service.

**SIMILAR SETS:** Control Set SCR-562

**POWER OUTPUTS** (Battery)

**TUNING:** (Type and Number) Generators 1 RHILA, Repeaters EX-99-T, 12 SD-565, 12 SD-566, Tone Tester 566-3

**RANGE:** (Nyla) See SCR-562, SCR-563 etc.

**PART B - TACTICAL CHARACTERISTICS**

**USE:** Control Set used as an operations block which provides the necessary control equipment and auxiliary to permit simultaneous operations of control C.P. and 100 aircraft equipped with SCR-561.

**RANGE:** (Nyla) SCR-562, SCR-563 etc.

**TRANSPORTATION:** None

**TYPE OF SIGNALS:** See below

---

**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 Power Unit PE-99 each</td>
<td>55&quot; x 20&quot; x 50&quot;</td>
<td>1600 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>5 Control Unit 56-25 each</td>
<td>20&quot; x 11 x 5/4&quot;</td>
<td>400 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>5 Control Unit 56-26 each</td>
<td>11 3/4&quot; x 5&quot; x 0&quot;</td>
<td>60 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Control Unit 56-25</td>
<td>14 1/2&quot; x 12&quot; x 7&quot;</td>
<td>55 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Distribution Panel 56-105</td>
<td>7 1/4&quot; x 26&quot; x 26&quot;</td>
<td>300 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>6 Telephone Repeaters EX-99 each</td>
<td>6&quot; x 10 1/2&quot; x 11 1/2&quot;</td>
<td>147 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Telephone CE-5 each</td>
<td>9 1/2 lb</td>
<td>Restricted</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 22,500 lb

**COMBINED VOLUME:** 320 cu.ft

**SHIP TONNAGE:** 5 1/4
**SCR-562**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** (Mo) 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:** (MO or RTAL) Kyd.
- **Sensitivity:** [Classification: Restricted]
- **Selectivity:** [Classification: Restricted]
- **Power Source:** Power Unit PE-99 (75kva, 110v 3 Phase 60 Cycle); also provision for using commercial power from 110V 2 wire service.
- **Similar Sets:** Radio Sets SCR-562 (Fixes).
- **Power Output:** (Watts) 50 (approximately)

**Tubes:** (Type and Number) 6-BO-660 Trans; 8 Each, (6E-52); 4 Each (186-A); 3 Each (18-1613); 2 Each (1211); 1 Each (6-807); 5 Each (50)

- **Audio:** 1-Grover-Edge RCA #1551; 1-2AP1/906F1; 2-96F4; 2-96F1; 1-566D1; 1-Volt Short RCA-165

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** VHF Radio Transmitter Station for Ground Control of Intercept Control of Intercept Operations. Part of Control Set SCR-562. Provides 5 independent channels of radio transmission.
- **Range:** (Miles) 155 miles with aircraft at an altitude greater than 10,000 ft.
- **To Communicate With:** Control Set SCR-561 by telephone and by radio with present aircraft equipped with radio set SCR-562.
- **To Replace In Part:**
- **Transportation:** Two (2) trailers, each trailer K-35 has 3 each Transmitters BO-660, making a total of 9.
- **Type of Signal:** Voice Mon

**PART D - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Transmitters BO-660 (1 Spare)</td>
<td>RE515 5</td>
</tr>
<tr>
<td>2 Control Units RM-27</td>
<td>259 29</td>
</tr>
<tr>
<td>2 Power Units PE-99</td>
<td>1600W 160</td>
</tr>
<tr>
<td>8 Antenna Equipment K-61</td>
<td>13 3</td>
</tr>
<tr>
<td>2 Trailers K-35 Each</td>
<td>6500W 650</td>
</tr>
<tr>
<td>1 One-Ton Cargo Trailers</td>
<td>1300 #</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 9,000 lbs

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

**Ship Tonnage:** 21 1/2 Tons

---

**UNIVERSITY OF CALIFORNIA**
SCR-563

PART A - TECHNICAL CHARACTERISTICS

(Classification: RESTRICTED)

FREQUENCY RANGE: (UN) 100 - 156

NUMBER OF CRYSTALS: 6 IN USE (FULL STEEL COMPLEMENT TO BE DETERMINED BY NAV)

PRESET FREQUENCY: 6 RECEIVERS BC-559 CONTAINED IN SCR-563 ARE NOT CRYSTAL CONTROLLED BUT ARE CALIBRATED BY MEANS OF THE FREQUENCY METER BC-559. THE FREQUENCY METER IS SET UP FOR 5 CRYSTALS WHICH ARE SELECTED BY MEANS OF A 5-POINT SWITCH. 1 STEEL IS NEEDED FOR EACH FREQUENCY.

ANTENNA: VERTICAL DIPOLE MOUNTED ON 90° MAST.

TUNING: 60 OR X-TOTAL VARIABLE

SENSITIVITY: 2-3 MDV/WATT 50 OHM OUTPUT

SELECTIVITY: 3 TIMES DOWN LESS 100 KG, 1000 TIMES DOWN MORE 350 KG

POWER SOURCE: Power unit PE-59 (20 KVA 110V 3 PHASE 50 CYCLES); ALSO HAS PROVISIONS FOR USING COMMERCIAL POWER FROM A 110V 2 WIRE SERVICE.

SIMILAR SETS: SCR-553 (FIXED)

POWER OUTPUT: (MAX) 1 (DISTORTED), 50 (100 DISTORTION)

Tapes: (Type and Number) READING SET FOR SCR-552, BC-559-552, III (9009); 1 (9002); 1 (9002); 1 (9002); 1 (9002); 1 (9002); 1 (9002); 1 (9002); 1 (9002); 1 (9002)

PART B - TACTICAL CHARACTERISTICS

(Classification: RESTRICTED)

USE: VHF RADIO RECEIVING STATION FOR GROUND CONTROL OF INTERCEPTOR PURSUIT OPERATIONS.

PART OF CONTROL SET SYSTEM SCR-562. 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 PART:

TRANSPORTATION: 1 TRAILER K-35, 1 ONE-TOUCH CARGO TRAILER.

TYPE OF SIGNAL: RECEIVING VOICE, TONE MODULATED SIGNAL AND SNR.

PART C - PRINCIPAL COMPONENTS

(Classification: RESTRICTED)

ITEM

HEIGH

WIDTH

DEPTH

WEIGHT

CLASSIFICATION

1. TRAILER K-35 120" 95" 19" 6250

2. ONE-TOUCH CARGO TRAILER 92" 72" 18" 1500

3. RECEIVERS BC-559 (1 SPARE) 10 1/2" 11 1/2" 13 1/2" 50

4. CONTROL UNIT WM-25 3" 3" 1" 100

5. ANTENNA EQUIPMENT RG-01 2 EACH 12" 25 1/2" 20" 100

6. POWER UNIT PE-59 9 1/2" 9 1/2" 9 1/2" 50

7. FREQUENCY METER BC-559 6 1/2" 8 1/2" 10" 200

8. RECTIFIER RG-62 (1 SPARE) 10 1/2" 10 1/2" 10 1/2" 70

9. SOCKET PANEL PEM-2 3" 3" 3" 10

10. FUSE PANEL PM-1 3" 3" 3" 10

11. ANTENNA AN-56 EACH MADE UP 101" 1 1/2" 1 1/2" 2250

12. BOX 1 12 1/2" 12 1/2" 12 1/2" 440

13. BOX 2 12 1/2" 12 1/2" 12 1/2" 440

14. BOX 3 12 1/2" 12 1/2" 12 1/2" 440

15. BOX 4 12 1/2" 12 1/2" 12 1/2" 440

16. BOX 5 12 1/2" 12 1/2" 12 1/2" 440

COMBINED WEIGHT OF COMPONENTS 23,000 lb.

COMBINED VOLUME OF COMPONENTS 5000 cu. ft.

SHIP Tonnage 14 1/2 T.
PART A - TECHNICAL CHARACTERISTICS
(Classification: Restricted)

FREQUENCY RANGE: (MHz) 300-156
NUMBER OF CRYSTALS: Two (2) in use (Complete syal
number to be determined by AAF)
PRESET FREQUENCY: Two (2) (See Below)
ANTENNA: Aerial-directional D/F with some
TUNING: (MD or XTAL) VARIABLE
SENSITIVITY: 2-5 microvolts/meter at 50 KW,
SELECTIVITY: Six times down less 100, 000,
POWER SOURCE: Power Unit PE-99 (36 KW 110V, 60 cy-
due 3 phase. Also provsion for using commer-
cial power from a 110V 2 wire service.
SIMILAR SETS:
POWER OUTPUT: (Watts) 1 watt (distorted) #1 (105)
DISTORTION
TUNES: (Type and Number) 1 SC-639 - 1 CH.
2 PE-99; 1 6136; 1 6146; 1 6967. 2 BO-63 - 6 6000;
2 PE-99; 5 6367; 2 6507; 2 6567. 2 RA-62 -
2 5145.

PART B - TACTICAL CHARACTERISTICS
(Classification: Restricted)

USE: Sector Housing D/F Station for ground control
of interceptor pursuit operations. Part of
Control Net System SCR-82. By utilizing a reac-
tion transmitter the D/F operator makes the
aircraft by the “talk down method”.
RANGE: (Miles) Determied by output of airborn
transmitter and height of aircraft.
TO COMMUNICATE WITH: Fighter aircraft equipped
with Radio SCR-322 by radio and with
SCR-561 by telephone.
TO REPLACE IN PART: None
TYPE OF SIGNAL: Receiver voice, tone modulated
signal and C'M.

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>
<tr>
<td>Torque</td>
<td>55°</td>
<td>28°</td>
<td>50°</td>
</tr>
<tr>
<td>Power Unit PE-99</td>
<td>54°</td>
<td>60°</td>
<td>72°</td>
</tr>
<tr>
<td>Shield PE-99</td>
<td>10 1/2°</td>
<td>19°</td>
<td>13 1/4°</td>
</tr>
<tr>
<td>Rectifier RA-62</td>
<td>3°</td>
<td>15°</td>
<td>8 5/8°</td>
</tr>
<tr>
<td>Frequency Mter BO-639</td>
<td>11 1/2°</td>
<td>15°</td>
<td>7°</td>
</tr>
<tr>
<td>Socket Panel PM-4</td>
<td>10 1/2°</td>
<td>19°</td>
<td>3 3/8°</td>
</tr>
<tr>
<td>Fuse Panel PM-15</td>
<td>5°</td>
<td>15°</td>
<td>5°</td>
</tr>
<tr>
<td>Antenna Equipment RC-62</td>
<td>5°</td>
<td>19°</td>
<td>11°</td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 55,500Lb
COMBINED VOLUME: 2200 ft³
SHIP TONNAGE: 16

PAGE 87
### SCR-565

**Nomenclature Designation:** SCR-565

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

**Status:** Restricted

**Instructional Literature:**

#### PART A - TECHNICAL CHARACTERISTICS

**Classification:** Restricted

- **Frequency Range:** 100-156 MHz
- **Number of Crystals:** 2 or more (Complete unit complement to be determined by AAF)
- **Preset Frequencies:** 2 (see note 2)
- **Antenna:** Vertical Antenna 0/F with Sensing Facilities
- **Tuning:** (MD or XTAL) Variable
- **Sensitivity:** Selectivity
- **Power Source:** Power Unit PE-99 (75 KVA 110V 60 cycle 3 phase); also has provisions for using commercial power from a 110V 2 wire service.
- **Similar Sets:**
  - **Power Output (Watts):** 1 watt (distorted), 2/3 watt (30% distortion)
  - **Tubes:** (Type and Number) 1 BC-658 = 5 19003, 2 BC-658 = 1 1667, 1 6504, 2 BC-659 = 6 9002, 2 9002, 2 6007, 2 6442, 2 6442, 2 6442 = 2 5964

#### PART B - TACTICAL CHARACTERISTICS

**Classification:** Restricted

- **Use:** O/F fixed station for ground control of interception pursuit operations. Part of Control Net System SCB-43. Two or more Radio Sets SCR-565 are used for determining azimuth bearings of aircraft equipped with Radio Set SCR-562. Simultaneous bearings are taken and telephoned to the operations block (SCR-561) and by telegraphy, the position of the aircraft is fixed.

- **Ranges:** (Miles)
  - Control Set SCR-565 by telephone and by radio with fighter aircraft equipped with SCR-552.
  - To replace in part:

- **Transportation:** None

- **Type of Signal:** Receiver voice, tone modulated signal and code.

#### PART C - PRINCIPAL COMPONENTS

**Classification:** Restricted

##### Item

<table>
<thead>
<tr>
<th>Item</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tower TH-17</td>
<td>50&quot;</td>
<td>50&quot;</td>
<td>12&quot;</td>
<td>116.8 lbs</td>
</tr>
<tr>
<td>1 Shelter HO-3 (Knocked down)</td>
<td>48&quot;</td>
<td>48&quot;</td>
<td>12&quot;</td>
<td>116.8 lbs</td>
</tr>
<tr>
<td>1 Power Unit PE-99</td>
<td>48&quot;</td>
<td>48&quot;</td>
<td>12&quot;</td>
<td>116.8 lbs</td>
</tr>
<tr>
<td>1 Radio Receiving Equipment RC-79</td>
<td>50&quot;</td>
<td>50&quot;</td>
<td>12&quot;</td>
<td>116.8 lbs</td>
</tr>
<tr>
<td>1 Antenna Equipment HO-52</td>
<td>50&quot;</td>
<td>50&quot;</td>
<td>12&quot;</td>
<td>116.8 lbs</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 33,900 lbs

**Combined Volume:** 2,200 cu. ft.

**Ship Tonnage:** 16.54 tons

---

Note: This sheet is classified: Restricted

---

Radio Set SCR-565

Manufacturer's Name

---
SCR-566

PART A - TECHNICAL CHARACTERISTICS
(CALCIFICATION: RESTRICTED)

FREQUENCY RANGE (MC): 100 - 156
NUMBER OF CRYSTALS: 9 in use (Full static complement to be determined by AAF)
PRESET FREQUENCIES: 9 (9 in DC & 623; 4 in DC & 625; 1 in 625).
ANTENNA: Vertical Aerial D/F with Directivity.
TUNING (UD or XTAL): 80-623; 80-625; XTAL: HC-633 Variable.
SENSITIVITY: 2-5 Microvolts/meter at 50 MHz.
SELECTIVITY: 2 Times Down from 100 KHz.
POWER SOURCE: Storage Battery and Power Unit PE-99 (45 VAC 110V 3 Phase, 60 Cycle) Also provisions for using commercial power from a 110V 2 wire service.

PART C - PRINCIPAL COMPONENTS
(CALCIFICATION: RESTRICTED)

ITEM | HEIGHT | WIDTH | DEPTH | WEIGHT | CLASSIFICATION
--- | --- | --- | --- | --- | ---
1. Transmitter DC-625 | 15x | 12x | 9x | 15.5 | #
1. Antenna Equipment RC-55 | 19x | 12x | 9x | 15.5 | #
1. One-ton Cargo Trailer | 19x | 12x | 9x | 15.5 | #
1. Receiver DC-625 | 15x | 12x | 9x | 15.5 | #
1. Dyehard Unit PH-100 | 15x | 12x | 9x | 15.5 | #
1. Dyehard Unit PE-99 | 15x | 12x | 9x | 15.5 | #
1. Receiver DC-625 | 15x | 12x | 9x | 15.5 | #
1. Power Unit PC-59 | 15x | 12x | 9x | 15.5 | #
1. Control Unit RC-15 | 15x | 12x | 9x | 15.5 | #
1. Oscillator Test Equipment RC-99 (HC-655) | 15x | 12x | 9x | 15.5 | #

COMBINED WEIGHT OF COMPONENTS: 10,000# APPROXIMATELY
COMBINED VOLUME OF COMPONENTS: 42,000 FT3

SHIP TONNAGE: 9 TONS
### SCR-567

**PART A - TECHNICAL CHARACTERISTICS**

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

**NUMBER OF CRYSTALS:** 1 in use 2 in transmitter station, 2 in receiver station (full size)

**ANTENNA:** Vertical dipole mounted on 30 ft mast.

**SENSITIVITY:** 2-3 microvolts/meter at 50W.

**SELECTIVITY:** 2 times more than 100 kc. 1000 times more than 500 kc.

**POWER OUTPUTS (Watts):** 50 watts from transmitter, 1/2 watt receiver.

**TUBES (Type and Number):** See Note 6.

**PART B - TACTICAL CHARACTERISTICS**

**USE:** Forward relay station for damage control by instrument operation in 60 cycle; also uses provision for operation on commercial power from a 110V 5 wire service.

**SIMILAR SETS:** Radio Set BC-559 and BC-560 also Radio Set SCR-557 (fixed).

**POWER OUTPUTS (Watts):** 50 watts from transmitter, 1/2 watt receiver.

**TUBES (Type and Number):** See Note 6.

### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ITEM</th>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Transmitters (K-55) each</td>
<td>130&quot;</td>
<td>94&quot;</td>
<td>256&quot;</td>
</tr>
<tr>
<td>2 Unit-ton cargo trailers each</td>
<td>72&quot;</td>
<td>72&quot;</td>
<td>111/2&quot;</td>
</tr>
<tr>
<td>2 Power Unit K-39 each</td>
<td>35&quot;</td>
<td>20&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>2 Transmitters K-550 each</td>
<td>74&quot;</td>
<td>74&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>2 Receivers (BC-559) each</td>
<td>74&quot;</td>
<td>74&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>1 Frequency Meter BC-638</td>
<td>11 1/2&quot;</td>
<td>11&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>1 Antenna Equipment NO-01 each</td>
<td>12&quot;</td>
<td>20 1/2&quot;</td>
<td>25 1/2&quot;</td>
</tr>
<tr>
<td>2 Control units NO-16 each</td>
<td>5&quot;</td>
<td>11/2&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>2 Amplifiers BC-626</td>
<td>12&quot;</td>
<td>11/2&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>2 Reflectors RA-42 each</td>
<td>5&quot;</td>
<td>11/2&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>1 Pneumatic panel NO-22</td>
<td>9&quot;</td>
<td>11/2&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>1 Pneumatic panel NO-22</td>
<td>9&quot;</td>
<td>11/2&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>2 Relay Unit NO-685</td>
<td>8 3/4&quot;</td>
<td>11&quot;</td>
<td>14 1/2&quot;</td>
</tr>
</tbody>
</table>

**TOTAL WEIGHT OF COMPONENTS:** 10,000 lb

**TOTAL VOLUME OF COMPONENTS:** 5,200 cu ft

**SHIP Tonnage:** 60 Tons
SCR-572

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGES: (INC.) THE CONTROL SET SCR-572 IS AN OPERATIONS BLOCK OF A FIGHTER CONTROL SYSTEM AND CONTAINS NO RADIO EQUIPMENT.

INSTALLER OF CRYSTALS: None

PRESET FREQUENCIES: None

TUNING: None

SENSITIVITY: None

SELECTIVITY: None

POWER SOURCE: Power Unit PE-99 (7½ kVA 116V 3 PHASE 60 CYCLE) also has provisions for using commercial power from a 110V 2 wire service

SIMILAR SETS: Control Set SCR-642 (Fixed)

POWER OUTPUT: (Watts) 500

TUBES: (TYPE AND NUMBER) 3×6C-607; 12×25L6.

PART B - TACTICAL CHARACTERISTICS

USE: Control Set used as an operations block which provides the necessary control equipment and auxiliaries to permit simultaneous operational control of up to two aircraft squadrons for ground control of interceptor pursuit operations.

RANGE: (MILES) Minimum of 150 MILES with aircraft at 10,000 FT.

TO COMMUNICATE WITH: SCR-572, SCR-576, SCR-578 with aircraft equipped with SCR-572

TO REPLACE IN PART:

TRANSPORTATION: TRAILER K-5515; 1 TON TRACTOR TRUCK 1 TON GEAR TRAILER.

TYPE OF SIGNAL:

PART C - PRINCIPAL COMPONENTS

ITEM

CONTROL UNITS RM-25-ENH
2 CONTROL UNITS RM-26
1 CONTROL UNIT RM-25 ENH
3 SWITCHBOXES 6×12-ENH
20 TELEPHONE REPEATERS GE-90
1 TRAILER K-55
2 CHEST GEAR TRAILER (72"
1 CHEST-GEAR-HALF TON TRACTOR TRUCK
3 RELAY UNIT 50-667

WEIGHT: 400

WEIGHT: 200

WEIGHT: 350

WEIGHT: 600

WEIGHT: 470

WEIGHT: 8500

WEIGHT: 800

WEIGHT: 800

WEIGHT: 350

COMBINED WEIGHT OF COMPONENTS:

20,000 LBS.

COMBINED VOLUME:

1,000 M³.

SHIP TONNAGE:

10 TONS.
SCR-573

NOTE. SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

PART A - TECHNICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

FREQUENCY RANGE: (MHz) 100-156
NUMBER OF CRYSTALS: 2 in use (full xtal complement to be determined by AAF)
PRESET FREQUENCIES: 2
ANTENNA: Vertical dipole mounted on 761 mast.
TUNING: (no or xtal) xtal
SENSITIVITY: SELECTIVITY
POWER SOURCE: Power Unit PE-99 (72 kVA 110V 60 cycle 3 phase)
SIMILAR SETS: Trans. Station of SCR-567
POWER OUTPUTS (Watts) 50

PART B - TACTICAL CHARACTERISTICS

CLASSIFICATION: RESTRICTED

USE: Two channel trans. station for the ground control of interceptor pursuit operation, Part of Control Set System SCR-3.
RANGES (MILES): Minimum of 135 miles with aircraft at 10,000 ft.

TO COMMUNICATE WITH: Control Set SCR-572, Radio Sets SCR-571, 575 and aircraft equipped with Radio Set SCR-566.

TO REPLACE IN PARTS:
TRANSPORTATION: 1 Truck K-53 1 one-ton cargo trailer.
TYPE OF SIGNAL: Transmits voice and MCR.

PART C - PRINCIPAL COMPONENTS

CLASSIFICATION: RESTRICTED

ITEM
1 Truck K-53
1 TRAILER X-65 (PWR)
2 Trans. RC-450 each
1 Control Unit RM-27
1 Antenna AH-56
2 Antenna Equipment RC-ET each

DIMENSIONS

HEAp WIDTH DEPTH WEIGHT CLASSIFICATION
1.50" 96" 256" 13,585 Restricted
72 72 14 63 2,600 Restricted
72 21 20 515 Restricted
11 3/8 19 10 1/2 29 Restricted
PACKAGED APPROX. 145 Restricted
23 cu.ft.
12 28 38 4 Restricted

COMBINED WEIGHT OF COMPONENTS:
93,509 lb approx.
COMBINED VOLUME:
2,075 cu. ft. approx.
SHIP TONNAGE:
8 3/4 T approx.

RADIO SET SCR-573, INTERIOR VIEW SHOWING RADIO TRANSMITTERS RC-450 AND CONTROL UNIT RM-27.

RADIO SET SCR-573 (Radio Transmitter Station) is similar in operation to radio set SCR-562, except that it contains two transmitters RC-450 instead of a total of six.
SCR-574

PART A - TECHNICAL CHARACTERISTICS
(Classification: RESTRICTED)

FREQUENCY RANGE: (MHz) 100-156
NUMBER OF CRYSTALS: 2 in use (full complement to be determined by AAF).

MODE FREQUENCIES: VARIABLE (DIAL SETTING DEPENDING ON CRYSTAL SETTED FREQUENCY). ANTENNA: VERTICAL DIPOLE MOUNTED ON 76" MAST.
TUNING: (MO OR XTAL)

SENSITIVITY: 2-5µv/meter at 50 db signal ratio 10 to 1.
SELECTIVITY: 2 times QRM less 100 KHz. 1000 times QRM more 350 KHz.
POWER SOURCES: Power unit PE-99 (79 KVA 110V 3 PHASE 60 CYCLES); also has provision for using commercial power from a 110V 2 WIRE SERVICE.
SIMILAR SETS: Receiver Station SCR-587

POWER OUTPUT: (Watts) Receiver 600W 9 watt (distorted) 2 1/2 (108 watt system).

TUBES: (Type and Number) 6C65: 6 6G7A: 3 5B26: 2 6G6: 4 6G6: 1 596: 1 5815: 2 596: 1

PART B - TACTICAL CHARACTERISTICS
(Classification: RESTRICTED)

USE: This channel receiver station for ground control of interceptor pursuit operations, part of control net system 500-5.

RANGE (MILES): Minimum of 1 3/4 MILES with aircraft at 15,000 FT.

TO COMMUNICATE WITH: Control Set SCR-575 and aircraft equipped with SCR-587.

TO REPLACE IN PARTS:

TRANSPORTATION: 1 Truck K-55, 1 4-ton cargo trailer.

TYPE OF SIGNAL: Receiver voice, tone modulated 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></td>
<td>HEIGHT</td>
<td>WIDTH</td>
<td>DEPTH</td>
</tr>
<tr>
<td>1 Truck K-55</td>
<td>130&quot;</td>
<td>96&quot;</td>
<td>256&quot;</td>
</tr>
<tr>
<td>1 Trailer K-63 (Power)</td>
<td>10 1/2</td>
<td>19</td>
<td>13 1/2</td>
</tr>
<tr>
<td>2 Receivers BC-655 each</td>
<td>11 1/2</td>
<td>19</td>
<td>7</td>
</tr>
<tr>
<td>1 Frequency Meter BC-656</td>
<td>5</td>
<td>19</td>
<td>8 3/4</td>
</tr>
<tr>
<td>2 Control Units PA-10 each</td>
<td>12</td>
<td>19</td>
<td>11</td>
</tr>
<tr>
<td>2 Amplifiers BC-606 each</td>
<td>5</td>
<td>19</td>
<td>5</td>
</tr>
<tr>
<td>1 Fuse Panel PA-15</td>
<td>2 1/2</td>
<td>19</td>
<td>5 3/8</td>
</tr>
<tr>
<td>1 Fuse Panel PE-5</td>
<td>T2</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>2 Frame PE-50 each</td>
<td>12</td>
<td>28 1/2</td>
<td>36 1/2</td>
</tr>
</tbody>
</table>

Combined Weight of Components: 14,400 lbs. APPROX.

Combined Volume: 2,873 BC-655 APPROX.

Shipment: 8 1/4 T APPROX.
**SCR-575**

**NOMENCLATURE DESIGNATION**

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

**STATUS:**

**INSTRUCTIONAL LITERATURE:**

---

### PART A - TECHNICAL CHARACTERISTICS

**CLASSIFICATION:** RESTRICTED

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

**NUMBER OF CRYSTALS:** 4 in 85-152; 4 in 80-856

**PRESET FREQUENCIES:** (2) EACH RECEIVING AND TRANSMITTING.

**ANTENNA:** Rotatable abore D/F with a power of 1000W.

**SENSITIVITY:** 2-5 microvolts/meter

**SELECTIVITY:** 2 times more than 100 kHz, 40 times more than 350 kHz.

**POWER SOURCE:** Power Unit PE-99 and storage batteries.

**SIMILAR SETS:** SCR-566 and SCR-565.

**POWER OUTPUT:** (Watts) Communications Transmitters: 6 watts minimum.

**TUNING:** (Type and Number) 85-150; 85-152; 85-50; 85-80; 85-90; 85-95; 85-100; 85-105; 85-110; 85-115; 85-120; 85-125; 85-130; 85-135; 85-140; 85-145; 85-150; 85-155.

---

### PART B - TACTICAL CHARACTERISTICS

**CLASSIFICATION:** RESTRICTED

**USE:** Single direction finding station for ground control of interceptor pursuit operations. Part of Control Net System SC-3. Used as D/F station for obtaining bearings on aircraft equipped with radio set SCR-566 for purposes of homing and D/F plotting.

**RANGE:** (Miles) Minimum of 15 miles with aircraft at 10,000 feet.

**TO COMMUNICATE WITH:** Fighter aircraft equipped with SCR-562.

**TO REPLACE IN PART:** None.

**TRANSPORTATION:** 1 Truck K-55, 1 Trailer K-45 (Power)

**TYPE OF SIGNAL:** Receiver voice, tone modulated and G/R. Transmits voice modulation.

---

### 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-55</td>
<td>100 x 90 x 254</td>
<td>15.30</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2 Trailers K-45 (Power)</td>
<td>72 x 2</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2 Receivers SC-635</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>2 Power Units PE-59</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Frequency Meter SC-845</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Power Unit PE-100</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Control Unit RU-10</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Control Panel PH-25</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
<tr>
<td>1 Relay Unit RD-607</td>
<td>10 1/2 x 19</td>
<td>2.50</td>
<td>RESTRICTED</td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 16.50 lbs

**COMBINED VOLUME OF COMPONENTS:** 2,272 cu. ft.

**SHIP TONNAGE:** 6 1/4 T

---

**Panel of Radio Receiver 80-635, Part of Radio Set SCR-575.**

---

**Radio Set SCR-575 (Radio Direction Finding Station).**

**Antenna Equipment RD-150 Raised in Position.**
**SCR-578**

**PART A - TECHNICAL CHARACTERISTICS**

**Classification:**

**Frequency Range:** (MHz) International distress frequency 500 modulated at 1000 cpm.

**Number of Crystals:** None.

**Preset Frequencies:** Preset to 500 MHz.

**Antenna:** 300 ft. Antenna wire N-158, wound on reel RL-42 and raised by Balloon M-270-A on kite M-277-A.

**Tuning:** (M) or (XAL). Selectivity.

**Power Source:** Built-in generator, operated by hand crank SC-10-A.

**Similar Sets:** Captured German "Hey-Seeker".

**Power Output:** (Watts) 3.5.

**Tubes:** (Type and Number)

1 = BC 776-8 Transistors

1 = 12-55-6

1 = 12-50-7

**PART B - TACTICAL CHARACTERISTICS**

**Use:** Portable transmitter used in rubber dinghy for beach rescue purposes. Shaped to fit between the knees of an operator. It is watertight and will float.

**Range:** (Miles) 200 (To aircraft at 2000 ft).

**To Communicate With:** SCR-197, SCR-287, Radio Compress SCR-269.

**To Replace In Part:**

**Transportation:** Aircraft (portable trans., used for sea-rescue).

**Type of Signal:** SCR (1000 cpm) automatic S.O.S. and manual keying on fixed distress frequency 500 MHz.

**PART C - PRINCIPAL COMPONENTS**

**Classification:**

<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>2 Rolls: 300 ft. ea Antenna Wire N-158</td>
<td></td>
<td></td>
<td></td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>1 Bag: Housing for Accessories SC-107</td>
<td>35 1/2&quot; X 7&quot; Dia</td>
<td></td>
<td></td>
<td>3.2</td>
<td></td>
</tr>
<tr>
<td>1 Bag: Housing for Transmitter SC-110</td>
<td></td>
<td></td>
<td></td>
<td>1.45</td>
<td></td>
</tr>
<tr>
<td>2 Balloons M-277</td>
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<td></td>
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<td>4.4</td>
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</tr>
<tr>
<td>1 Hand Crank SC-10</td>
<td></td>
<td></td>
<td></td>
<td>1.45</td>
<td></td>
</tr>
<tr>
<td>2 Generators M-515 (Hydrogen)</td>
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<td></td>
<td></td>
<td>5.95</td>
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</tr>
<tr>
<td>2 Balloon Inflating Tubes</td>
<td></td>
<td></td>
<td></td>
<td>1.45</td>
<td></td>
</tr>
<tr>
<td>1 Kite M-277</td>
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<td></td>
<td></td>
<td>1.45</td>
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<tr>
<td>1 Radio Transmitter SC-778</td>
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<td>1 Signal Lamp M-300</td>
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<td>1.2</td>
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<tr>
<td>1 Parachute M-276</td>
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<td>1.0</td>
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</table>

**Combined Weight of Components:** 350 lbs approx.

**Combined Volume:** 3 to 4 cu ft. approx.

**SHIP Tonnage:**

---

*Note: This sheet is classified: UNCLASSIFIED*
### SCR-583

#### PART A - TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Classification</th>
<th>FREQUENCY RANGE (MHz)</th>
<th>2.2 - 4.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER OF CRYSTALS</td>
<td>l</td>
<td></td>
</tr>
<tr>
<td>PRESET FREQUENCIES</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ANTENNA</td>
<td>&quot;Flexible&quot; Waving A, Stationary 20'</td>
<td></td>
</tr>
<tr>
<td>TUNING</td>
<td>(No Or Stal) Boat</td>
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</tr>
<tr>
<td>SENSITIVITY</td>
<td>SELECTIVITY</td>
<td></td>
</tr>
<tr>
<td>POWER SOURCE</td>
<td>Dry Battery For Receiver, and 5 or 12 V. For Transmitter and Receiver</td>
<td></td>
</tr>
<tr>
<td>SIMILAR SETS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER OUTPUTS (Watts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TUBES (Type and Number)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Receiver - 1 180</td>
<td>1 Tester - 1 105</td>
<td></td>
</tr>
<tr>
<td>1 105</td>
<td>1 7L-10</td>
<td></td>
</tr>
<tr>
<td>1 105-30</td>
<td>1 154</td>
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</tr>
<tr>
<td>1 154</td>
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</table>

#### PART B - TACTICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>USE</th>
<th>Can Mix, Mix, &amp; Maneuver New Units.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RANGE (MILES)</td>
<td>35 Miles On Low Power CH, Maximum 60 Miles On High Power CH.</td>
<td></td>
</tr>
<tr>
<td>TO COMMUNICATE WITH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TO REPLACE IN PARTS SCR-203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSPORTATION HOME PACK OR VEHICLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE OF SIGNALS</td>
<td>CW; Voice (AM)</td>
<td></td>
</tr>
</tbody>
</table>

#### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
<th>WEIGHT</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Receiver, &amp; Trans. SC-1209</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Unit PE-152</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Converter Unit PE-154</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generator (H=3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 120 lb

**Combined Volume:** 0.00 ft³

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

FREQUENCY RANGE: (MHz) 3.4 - 6 (Reception & Transmission) See Remark.
NUMBER OF CRYSTALS: 2
PRESET FREQUENCIES: 1 ea. Transmitting & Receiving
ANTENNA: Telescoping antenna 39" long.
TUNING: (NO OR XTAL) Crystal
SENSITIVITY SELECTIVITY
POWER SOURCE: Self contained - "A" battery 8A-37 (1.5 V); "B" battery 8A-38 (105.5 V).
SIMILAR SETS: SCR-556
POWER OUTPUTS (Watts)
TUBES: (TYPE AND NUMBER)
1 - BC-721-B 2 - 385
1 - 115
2 - 395

PART B - TACTICAL CHARACTERISTICS

USE: Dual purpose radio receiver and transmitter, designed for two-way conversation. To be used in tone sliders then to be removed and used for ground communication.
RANGE (MILES) 100 to 1 mile.
TO COMMUNICATE WITH: Other radio sets SCR-585.
TO REPLACE IN PART:
TRANSPORTATION: Originally for glider-to-plane intercommunication (installed)
TYPE OF SIGNALS: Voice and tone modulated reception voice modulated transmission.

PART C - PRINCIPAL COMPONENTS (CLASSIFICATION RESTRICTED)

<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 Receiver and Transmitter BC-721-B</td>
<td>6</td>
<td>5 1/2</td>
<td>17 1/16</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>Radio Control Box BC-722-B</td>
<td>4 13/16</td>
<td>5 7/8</td>
<td>3 1/4</td>
<td>.87</td>
<td></td>
</tr>
<tr>
<td>Control Shaft MC-355-B</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Mounting FT-295-B</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>3.5</td>
<td></td>
</tr>
</tbody>
</table>

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

COMBINED WEIGHT OF COMPONENTS: 11 1/2# approx.
COMBINED VOLUME: 2 cuft, approx.
SHIP TONNAGE:
**SCR-593**

**PART A - TECHNICAL CHARACTERISTICS**

- **FREQUENCY RANGE:** AM 2.0 - 6.0 (Receiver only)
- **NUMBER OF CRYSTALS:** None
- **PRESET FREQUENCIES:** (Selected by push button)
- **ANTENNAS:** Vertical and horizontal
- **TUNING:** Two or three bands

**PART B - TACTICAL CHARACTERISTICS**

- **USES:** Command, unit, unit and unit during combat
- **RANGE:** (Miles) to receive signals from SCR-543 up to 20 miles.
- **TO COMMUNICATE WITH:** SCR-543
- **DESCRIPTION:** Receiver, SCR-593 receiver only
- **TRANSPORTATION:** Carried by one man. To be operated on ground or in vehicle.
- **TYPE OF SIGNALS:** Voice (AM)

**PART C - PRINCIPAL COMPONENTS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver, SCR-720</td>
<td></td>
</tr>
</tbody>
</table>

**DIMENSIONS**

<table>
<thead>
<tr>
<th>WEIGHT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

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

**This sheet is classified:** Unclassified.
### Part A: Technical Characteristics

- **Frequency Range:** 27-145 MHz
- **Number of Crystals:** None
- **Preset Frequency:** None
- **Antenna:** 3 Y-1540 horizontal dipoles (1 for each of the 3 bands of receiver) mounted on 27-145 MHz tuning (No 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):**
  - VT-50: 2
  - VT-56: 1
  - VT-107: 1
  - VT-112: 1
  - VT-117: 1
  - VT-125: 1
  - VT-175: 1
  - VT-236: 1

### 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver BR-707</td>
<td>8 3/8&quot; x 19&quot; x 14&quot;</td>
<td>650</td>
</tr>
<tr>
<td>Antenna RC-154</td>
<td>360</td>
<td>300</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**
### SCR-608

**NOMENCLATURE DESIGNATION**

**PART A - TECHNICAL CHARACTERISTICS**
- **FREQUENCY RANGE**: 27.0 - 50.9 MHz
- **NUMBER OF CRYSTALS**: 120
- **Preset Frequencies**: 10 (Push-Button Selection)
- **Antenna**: Fixed Type
- **Tuning**: (MD or XTAL) Crystal
- **Sensitivity**: See Classification
- **Power Source**: 12 or 24 v., vehicle battery with external battery.<br>
- **Similar Sets**: SCR-508. (Except frequency band)
- **Power Output**: (Watts) 35
- **Type B**: (Type and Number) 60-36L-(A) Receiv. 3 Type 6 60-6L; 1 Type 6U4; 2 Type 6 60-9L; 1 Type 60-9L; 2 Type 60-6L; 1 Type 60-6L; 1 Type 60-6L;
- **Type C**: (Type and Number) 60-6L-(A) Receiv. 3 Type 6 60-6L; 1 Type 6U4; 2 Type 6 60-9L;
- **Type D**: (Type and Number) 60-6L-(A) Receiv. 3 Type 6 60-6L; 1 Type 6U4; 2 Type 6 60-9L;
- **TRANSPORTATION**: Vehicle.
- **Type of Signal**: FM; Voice Only.

**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-611.
- **To Replace**: SCR-611, SCR-885, SCR-156, SCR-885.

**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.</td>
<td>Radio Trans. 60-6L</td>
<td>67 Lb</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Radio Recv. 60-6L</td>
<td>70 Lb (55 lbs.)</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Mounting FT-227</td>
<td>143 Lb</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Remote Control Unit RG-29</td>
<td>15 Lb</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 150 Lb

**COMBINED VOLUME**: 

**SHIP TONNAGE**: 

---

**NOTE**: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.
# SCR-610

## Part A - Technical Characteristics

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range: (MHz) 27.0 - 30.0</td>
</tr>
<tr>
<td>Number of Crystals: 120</td>
</tr>
<tr>
<td>Preset Frequencies: The pre-set XTL controller channels.</td>
</tr>
<tr>
<td>Antenna: Fiberglass type, AM-20-0 and vehicular ship.</td>
</tr>
<tr>
<td>Tuning: (MD or XTL) XTL.</td>
</tr>
<tr>
<td>Sensitivity†</td>
</tr>
<tr>
<td>Power Source: Dry batteries; power unit PE-117</td>
</tr>
<tr>
<td>Similar Sets: SCR-609 (Except for added power pack)</td>
</tr>
<tr>
<td>Power Output: (Watts) 2</td>
</tr>
<tr>
<td>Tubes: (Type and number) 1 BC-659 (1P), 5 1LM5, 2 126S; 1 1299; 1 1145; 1 1295; 1 126S. 1 PE-117, U.S.(U.S.A.M.I.) VN-40-50; 1 6K1005.</td>
</tr>
</tbody>
</table>

## Part B - Tactical Characteristics

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use: CBS,Smoke Gen Cos; FA; Liaison officer forward observers, and for intra-battery and intra-bn, communication.</td>
</tr>
<tr>
<td>Range: (Miles) 5</td>
</tr>
<tr>
<td>To Communicate With: SCR-609; SCR-610; SCR-626.</td>
</tr>
<tr>
<td>To Replace In Parts: SCR-161; SCR-190; SCR-264; SCR-348.</td>
</tr>
<tr>
<td>Transportation: Transporter operated in vehicle or carried by man on foot.</td>
</tr>
<tr>
<td>Type of Signal: Voice (FM)</td>
</tr>
</tbody>
</table>

## Part C - Principal Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver &amp; Transmitter</td>
<td>SCR-610</td>
<td></td>
</tr>
<tr>
<td>Plate Supply Unit</td>
<td>PE-117</td>
<td></td>
</tr>
<tr>
<td>Mounting Form</td>
<td>FT-250</td>
<td></td>
</tr>
<tr>
<td>Remote Control Unit</td>
<td>RM-29</td>
<td></td>
</tr>
<tr>
<td>Case CS-29 (for batteries)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Combined Weight of Components: | 1776 |
| Combined Volume: | 1.5 cu.ft. |

---

*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 (MO or XTAL) XTAL

**Sensitivity**: Selectivity

**Power Source**: Similar sets: SCR-609; SCR-610.

**Power Outputs (Watts)**: 2

**Tubes (Type and Number)**:

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1/2</td>
</tr>
<tr>
<td>6</td>
<td>1/2</td>
</tr>
<tr>
<td>5</td>
<td>175</td>
</tr>
<tr>
<td>4</td>
<td>245</td>
</tr>
<tr>
<td>4</td>
<td>1/4</td>
</tr>
</tbody>
</table>

### PART B - TACTICAL CHARACTERISTICS

**Classification**: Restricted

**Use**: Field Artillery

**Range (Miles)**: Approx. 5

To communicate with: SCR-606; SCR-609; SCR-610.

To replace in parts: SCR-609; SCR-610.

**Transportation**: Man carried, animal pack, or field artillery vehicle.

**Type of Signals**: Voice (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></td>
<td>Height</td>
<td>Width</td>
<td>Depth</td>
</tr>
</tbody>
</table>

*(In Development Stage - Components not yet definitely determined)*

**Combined Weight of Components**: Not to exceed 250

**Combined Volume**: Not to exceed

**Ship Tonnage**: Not to exceed
**SCR-624**

**PART A - TECHNICAL CHARACTERISTICS**

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

**NUMBER OF CRYSTALS:** 8

**PRESET FREQUENCIES:** 4, preset channels, both trans & receiv.

**ANTENNA:** 5' antenna on 50 ft. mast.

**TUNING:** (MD or XTAL) XTAL

**SENSITIVITY:** SEND INR

**POWER SOURCE:** Gasoline engine driven generator 110 V. AC.

**SIMILAR SETS:** Use same transmitter and receiver components as SCR-522 and SCR-345.

**POWER OUTPUT:** (Watts) 6 watts voice.

**TUBES:** (Type and number) 1-PC-6501 Receiver: 1-12107, 1-9002; 3-905; 1-1254U7, 2-12557; 1-80-6204 Transmit; 2-8542; 3-1256; 1-5050; 1-80-6207; 1-80-1804 Rectifier; 2-8540; 1-45 02.

**PART B - TACTICAL CHARACTERISTICS**

**USES:** Point-to-point or ground, ground station or ground-to-air communications.

**RANGE (MILES):** Line-of-sight, maximum of 130 miles ground-to-air.

**TO COMMUNICATE WITH:** SCR-522; SCR-542, and similar VHF aircraft command sets.

**TO REPLACE IN PARTS:**

**TRANSPORTATION:** Air transportable, and trucks.

**TYPE OF SIGNAL:** 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>1 CHEST CH-172-B</td>
<td>9 7/8&quot;</td>
<td>16 3/4&quot;</td>
<td>13 3/4&quot;</td>
<td>154 lb.</td>
<td></td>
</tr>
<tr>
<td>1 CHEST CH-170-A</td>
<td>47 1/8&quot;</td>
<td>14 3/4&quot;</td>
<td>6 3/8&quot;</td>
<td>41 lb.</td>
<td></td>
</tr>
<tr>
<td>1 ANTENNA MAST Mt-1, consisting of:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 STRAP CABLE (50 ft., plywood mast)</td>
<td>11 1/2&quot;</td>
<td>16 1/2&quot;</td>
<td>12&quot;</td>
<td>152 lb.</td>
<td></td>
</tr>
<tr>
<td>1 STAY BOX</td>
<td>25 3/4&quot;</td>
<td>16 3/4&quot;</td>
<td>12 1/2&quot;</td>
<td>121 lb.</td>
<td></td>
</tr>
<tr>
<td>1 SPARE PARTS BOX</td>
<td>27&quot;</td>
<td>13 1/2&quot;</td>
<td>11&quot;</td>
<td>45 lb.</td>
<td></td>
</tr>
<tr>
<td>1 POWER UNIT PE-75</td>
<td>36&quot;</td>
<td>19 1/2&quot;</td>
<td>26 1/2&quot;</td>
<td>502 lb.</td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:** 1020 lbs.

**COMBINED VOLUME OF COMPONENTS:**

---

**SHIP TONNAGE:**

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This document is classified **RESTRICTED**. 

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### Part A - Technical Characteristics

**Frequency Range:** (MHz)

**Number of Crystals:**

**Project Frequencies:** 1 KHz

**Antenna:**

**Sensitivity:**

**Selectivity:**

**Power Source:** 2 ea. Battery BA-50; 1 ea. Battery BA-30.

**Similar Sets:** None

**Power Outputs (Watts):**

**Tubes (Type and Number):** 1 ea. 1066T; 2 ea. VT-146 (IN507)

### 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 Parts:**

**Transportation:** Portable by 1 man.

**Type of Signal:** Visual indication on meter; audible indication in resonator worn on left shoulder of user.

### 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 BC-1141</td>
<td>14&quot; x 6&quot; x 5&quot;</td>
<td>50 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td>Chest CH-136</td>
<td>28 1/4&quot; x 0 1/4&quot; x 15&quot;</td>
<td>250 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td>Control Box BC-1140</td>
<td>7&quot; x 7&quot; x 5&quot;</td>
<td>30 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td>Handle M-360</td>
<td>28 1/2&quot; x 1 1/2&quot; diameter</td>
<td>120 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td>Resonator M-356</td>
<td>3&quot; x 3&quot; diameter</td>
<td>30 lbs</td>
<td>Unclassified</td>
</tr>
<tr>
<td>Search Coil C-446</td>
<td>1&quot; x 15&quot; diameter</td>
<td>30 lbs</td>
<td>Unclassified</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 50 1/2 lbs

**Combined Volume of Components:** 28 1/4" x 0 1/4" x 15" when packed in CH-150

**Ship Tonnage:**
**SCR-628**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** (MHz) 27 - 38.9
- **Number of Crystals:** 120
- **preset Frequency:** 10 Instantaneous Selection while moving or halted.
- **Antenna:** Fiberglass type, vertical.
- **Tuning:** (MO or XTAL) XTAL
- **Sensitivity:** Selectivity
- **Power Source:** 12 Volt Vehicular Battery.
- **Similar Sets:** SCR-608 (different frequency) SCR-608 but with only one Receiver.
- **Power Outputs:** (Watts) 35
- **Tubes:** (Type and Number)
  - 2 6AQ7
  - 1 6BQ6
  - 2 12AT7
  - 2 6BQ6
  - 2 6AL7GT

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** CBs, Small Arm Coys, FA, AD, and AT Bunkers and Control Sets, Etc., C.P., Fire Control, and Fire-Detection Sets, and Inter-Unit Communication.
- **Range:** (Miles) Moving = 10 Miles; Halting = 15 Miles
- **To Communicate With:** SCR-608; SCR-609; SCR-610; SCR-620.
- **To Replace in Part:** SCR-1942; SCR-38.
- **Transportation:** Transporter & Operated in Vehicular.
- **Type of Signals:** Voice (FM)

**PART C - PRINCIPAL COMPONENTS**

**Item**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trans. 606L</td>
<td>1 1/2&quot;</td>
<td>1900</td>
</tr>
<tr>
<td>Rect. 606C</td>
<td>14 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>Mounting FT-257</td>
<td>56&quot;</td>
<td></td>
</tr>
<tr>
<td>Antenna Mast Base 6FAB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Control Unit MA-29</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:** Restricted

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

**Number of Crystal Sets:** 5 (in use; full crystal complement will be determined by AAF).

**preset frequencies:** 5

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

**Tuning (No or Crystal):** Either.

**Sensitivity:** Selectivity.

**Power Source:** Power Unit PE-99 (75 kVA 110V 5 phase 60 cycle); also provision for using commercial power from 110V 2 wire service.

**Similar Sets:** SCR-562

**Power Outputs (Watts):** 50 (approximately)

**Tubes (Type and Number):** 6Q-150 (60 each), 6OE-260 (60 each), 6BE-61 (60 each), 6BE-160 (50 each), 6DH-9 (5 each), 6HCL (1 each), 6BE-67 (1 each), 5E-9 (5 each), 5E-300 (5 each), 4B-847 (1 each), 5X-5 (1 each), 5V-240 (1 each), 5X-58 (1 each), 5X-56 (1 each), 6K-40 (1 each), 6K-40 (1 each).

### PART B - TACTICAL CHARACTERISTICS

**Use:** VHF Radio Transmitter Station for Ground Control of Interceptor Pursuit Operations.

**Part of Control Set System SCR-632, Provides:** 5 independent channels of radio transmission.

**Range:** [Miles]: 125 miles with aircraft at an altitude greater than 10,000 ft.

**To Communicate With:** Control set SCR-561 by Telephone and by Radio to Fighter Aircraft Equipped with Radio Set SCR-562.

**To Replace In Parts:**

**Transportation:**

**Type of Signals:** Voice and WLN.

### 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 NO-460 (1 Spare)</td>
<td>20&quot; x 21&quot; x 20&quot;</td>
<td>515 lbs.</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Control Units RM-27</td>
<td>19&quot; x 11.5&quot; x 10.5&quot;</td>
<td>250 lbs.</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Power Units PE-99</td>
<td>55&quot; x 20&quot; x 50&quot;</td>
<td>1,600 lbs.</td>
<td>Restricted</td>
</tr>
<tr>
<td>5 Antenna Equipment NO-61</td>
<td>12&quot; x 20&quot; x 55&quot; x 58&quot;</td>
<td>8 lbs.</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:** 8,500 lbs.

**Combined Volume of Components:** 900 cu. ft.

**Ship Tonnage:** 12 1/4 t.
SCR-633

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: (MHz) 120-156
NUMBER OF CRYSTALS: 6 in use (full xtal complement to be determined by AF).
PEAK FREQUENCIES: 6 receivers. DC-659 contained in SCR-633 are not crystal controlled but are calibrated by means of the frequency meter DC-659.
THE FREQUENCY METER IS SET UP FOR 5 CRYSTALS WHICH ARE SELECTED BY MEANS OF A 5-POINT SWITCH. 1 XTAL IS NEEDED FOR EACH FREQUENCY.
ANTENNA: VERTICAL DIPOLES MOUNTED ON 90' MAST.
TUNING: (MO OR XTAL) VARIABLE
SENSITIVITY: 3-5 mV/meter 50 W output.
SELECTIVITY: 2 T I M E S H I R T H 1 0 00 T I M E S T O N E W H E N 3 0 0 K. 
POWER SOURCE: POWER UNIT PE-99 (50 WATT 110V 3 PHASE 60 CYCLES) ALSO HAS PROVISIONS FOR USING COMMERCIAL POWER FROM A 110V 2 WIRE SERVICE.
SIMILAR SETS: SCR-646

PART B - TACTICAL CHARACTERISTICS


RANGE: (DIAL) determined by output of airborne transmitter.

TO COMMUNICATE WITH: Control Set SCR-561 or telephone and by radio with fighter aircraft equipped with Radio Set SCR-552.

TO REPLACE IN PART:

TRANSPORTATION:

TYPE OF SIGNAL: Receiving Voice-Tone Modulated Signal and OK.

PART C - PRINCIPAL COMPONENTS

ITEM

6 RECEIVERS DC-659 (1 SPARE)
1 CONTROL UNIT NF-52
8 ANTENNA EQUIPMENT AE-81
1 POWER UNIT PE-99
1 FREQUENCY METER DC-659
6 RECTIFIER UNITS RA-40 (1 SPARE)
3 SOCKET PANEL PH-4
1 FUSE PANEL PH-15
4 ANTENNA AMP'S EACH MADE UP

DIMENSIONS
HEIGHT
10 1/2" 9" 11 1/2" 10 1/2" 7" 10 1/2" 6 1/2" 5" 10 1/2" 6 1/2" 5"
WIDTH
14" 14" 14" 14" 14" 14" 14" 14" 14"
DEPTH
13 1/2" 13 1/2" 13 1/2" 13 1/2" 7" 13 1/2" 13 1/2" 7" 13 1/2" 13 1/2" 7"
WEIGHT
54" 54" 54" 54" 35" 25" 25" 25" 25" 25" 25"
CLASSIFICATION

COMBINED WEIGHT OF COMPONENTS: 10,220 lb
COMBINED VOLUME OF COMPONENTS: 700 cu. ft.
DRY TONNAGE: 9 3/4 T.
SCR-637

PART A - TECHNICAL CHARACTERISTICS

FREQUENCY RANGE (MHz): 100 - 156
NUMBER OF CRYSTALS: 1 in one 2 in transmitter station 2 in receiver station (full set complement to be determined by AF).
RECEIVER FREQUENCIES: 2 in transmitter station, 2 in receiver station (frequency meter)
ANTENNA: Vertical dipole mounted on 50' mast.
TUNING: (MD or ETAL) Transmitter/STAL-TRANSmitter RESISTANCE.
SENSITIVITY: 2-3 s/s/d @ 50 ohms
SELECTIVITY: 2 times down less 100 to 1000 times up.
POWER SOURCE: Power Unit PE-29 (75 kW 110V 3 phase 60 cycle) also has provision for operation on commercial power from a 110V 2 wire service.
SIMILAR SETS: SCR-573, SCR-574; also SCR-567.
POWER OUTPUT: (Watts) 50 watts from transmitter 2 watt receiver.

PART C - PRINCIPAL COMPONENTS

ITEM | DIMENSIONS | WEIGHT | CLASSIFICATION
--- | --- | --- | ---
1. Power Unit PE-29 each | 55 x 4 x 12 | 1,400 | 50
2. Transmitters ETAL-TRANSmitter each | 16 x 16 x 5/8 | 500 | 50
3. Receivers ETAL-TRANSmitter each | 11 x 12 x 7/8 | 75 | 50
4. Frequency Meter ETAL-TRANSmitter | 11 x 12 x 7/8 | 75 | 50
5. Antenna ETAL-TRANSmitter | 11 x 12 x 7/8 | 75 | 50
6. Antenna ETAL-TRANSmitter | 11 x 12 x 7/8 | 75 | 50
7. Control Unit ETAL-TRANSmitter each | 11 x 12 x 7/8 | 75 | 50
8. Amplifier ETAL-TRANSmitter each | 11 x 12 x 7/8 | 75 | 50
9. Amplifier ETAL-TRANSmitter each | 11 x 12 x 7/8 | 75 | 50
10. Rectifier RA-62 | 11 x 12 x 7/8 | 75 | 50
11. Fuse Panel PM-15 | 11 x 12 x 7/8 | 75 | 50
12. Fuse Panel PM-15 | 11 x 12 x 7/8 | 75 | 50
13. Relay Unit ETAL-TRANSmitter | 11 x 12 x 7/8 | 75 | 50

COMBINED WEIGHT OF COMPONENTS: 14,000 lbs
COMBINED VOLUME OF COMPONENTS: 900 cu. ft.
SHIP Tonnage: 8 Tonnage
### PART A - TECHNICAL CHARACTERISTICS

- **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
- **Pre-set Frequencies:** None
- **Antenna:** None
- **Tuning (No or Xtal):** None
- **Sensitivity:** Selectivity
- **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:** Control Set SCR-572.
- **Power Outputs (Watts):**
  - Type: (Type and Number) 3-60-607; 12-25-64.

### PART B - TACTICAL CHARACTERISTICS

- **Use:** Control Set used as an operations block which provides the necessary control equipment and auxiliaries to permit simultaneous operational control of up to two (2) aircraft squadrons for ground control of interceptor pursuit operations.
- **Range (Miles):** Minimum of 155 miles with aircraft at 10,000 feet.
- **To Communicate With:** Radio Set SCR-575 or SCR-642, SCR-574, SCR-642, SCR-644, or SCR-645 by telephone and by radio with fighter aircraft equipped with SCR-522.
- **To Replace In Pairs:** Transportation.
- **Type of Signal:**

### PART C - PRINCIPAL COMPONENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Control Units RM-25 each</td>
<td>20 * 11 1/2&quot; 11 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>7</td>
</tr>
<tr>
<td>2 Control Units RM-26 each</td>
<td>11 7/8&quot; 9&quot; 8&quot;</td>
<td>* 12&quot;</td>
<td>7&quot;</td>
</tr>
<tr>
<td>1 Control Unit RM-28</td>
<td>12 1/2&quot; 12&quot; 25&quot;</td>
<td>25&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>3 Switchboards 80-72 each</td>
<td>8&quot; 14 1/2&quot; 11 1/2&quot;</td>
<td>11 1/2&quot;</td>
<td>14 1/2&quot;</td>
</tr>
<tr>
<td>20 Telephone Repeaters CE-99</td>
<td>9&quot; 12 1/2&quot; 9&quot;</td>
<td>12 1/2&quot;</td>
<td>9&quot;</td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

- **Combined Weight:** 4,000 lbs
- **Combined Volume:** 420 cu. ft.
- **Ship Tonnage:** 21
**SCR-643**

**PART A - TECHNICAL CHARACTERISTICS**

- **Frequency Range:** 100-156 MHz
- **Number of crystals:** 2 in use (fullystal complete)
- **Preset frequencies:** 2
- **Antenna:** Vertical dipole mounted on 761 mast.
- **Tuning (MD or XTAL):** XTAL
- **Sensitivity:** Selectivity
- **Power Source:** Power Unit PE-59 (72 kVA 110V AC, cycle 3 phase) & also power source for using commercial power from a 110V 2 wire service.
- **Similar sets:** Trans. station of SCR-567.
- **Power Output (Watts):** 50

<table>
<thead>
<tr>
<th>Tube Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-525</td>
<td>2-606</td>
</tr>
<tr>
<td>8-608</td>
<td>2-20</td>
</tr>
<tr>
<td>6-1615</td>
<td>2-406</td>
</tr>
<tr>
<td>4-811</td>
<td>1-545+1056+</td>
</tr>
<tr>
<td>8-607</td>
<td>2-606  GT</td>
</tr>
<tr>
<td>10-0648</td>
<td>1 x 3 GT</td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

- **Use:** Two channel trans. station for the ground control of interceptor pursuit operation. Part of Control Net System SCR-52.
- **Range (Miles):** Minimum of 135 miles with aircraft at 10,000 ft.
- **To communicate with:** Control set SCR-572 or SCR-662, Radio set SCR-574 or SCR-646, SCR-573 or SCR-625 by telephone and by radio with fighter aircraft equipped with radio set SCR-522.
- **To replace in part:** Transportation.
- **Type of signal:** Transmits voice and Morse.

**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-60</td>
<td>12&quot; x 21&quot; x 20&quot;</td>
<td>5lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Control Unit RM-27</td>
<td>11 1/2&quot; x 19&quot; x 10 1/2&quot;</td>
<td>29 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>1 Antenna AN-66</td>
<td>5&quot; x 5&quot; x 1&quot;</td>
<td>743 lb</td>
<td>Restricted</td>
</tr>
<tr>
<td>2 Antenna Equip. BC-81</td>
<td>12&quot; x 28&quot; x 30&quot;</td>
<td>4 lb</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

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

**Combined Volume:** 520 cubic feet approx.

**Ship Tonnage:** 9 1/2 T approx.

PART A - TECHNICAL CHARACTERISTICS
(Classification RESTRICTED)

FREQUENCY RANGE: (FM) 100-156

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

PRESET FREQUENCY: Variable (dial setting controlled by crystal-controlled frequency meter.)

ANTENNA: Vertical dipole mounted on 76th WARC.

TUNING (MO or XTAL)

SENSITIVITY: 2-5 kHz at 50 mW signal input.

SELECTIVITY: 2 times down at 100 kHz, 1000 times down at 500 kHz.

POWER SOURCE: Power unit PC-99 (600 µA 110 V phase 60 cycle) also has provisions for using commercial power from a 110 V 2-wire service.

SIMILAR SETS: Receiver station of SCR-547.

POWER OUTPUT: (Watts) Receiver 659: 1 watt distant 2 nautical miles.

TUBES: (Type and number): BD-659: 1-630; 1-900B; 2-90051-1; 5-9019; 1-9012; 1-90051; 1-90031-1; 1-9012; RC-663; RC-2516.

RA-432; 1-90031.

PART B - TACTICAL CHARACTERISTICS
(Classification RESTRICTED)

USE: Two-channel receiver station for ground control of interceptor pursuit operations. Part of Control Net System BCS-3.

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

TO COMMUNICATE WITH: Control Set SCR-172 or SCR-137, radio set SCR-435 or SCR-135 by telephone and by radio with fighter aircraft equipped with SCR-522.

TO REPLACE IN PART: None.

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

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 Receivers BD-659 each</td>
<td>10 1/2&quot; x 9&quot; x 13 1/2&quot;</td>
<td>36</td>
<td>Restricted</td>
</tr>
<tr>
<td>7</td>
<td>19</td>
<td>8 1/2</td>
<td>26</td>
</tr>
<tr>
<td>7</td>
<td>19</td>
<td>7</td>
<td>35</td>
</tr>
<tr>
<td>5</td>
<td>19</td>
<td>8 3/4</td>
<td>16</td>
</tr>
<tr>
<td>12</td>
<td>19</td>
<td>11</td>
<td>36</td>
</tr>
<tr>
<td>5</td>
<td>19</td>
<td>5</td>
<td>25</td>
</tr>
<tr>
<td>1</td>
<td>5/8</td>
<td>15</td>
<td>Restricted</td>
</tr>
<tr>
<td>20</td>
<td>4</td>
<td>121</td>
<td>Restricted</td>
</tr>
<tr>
<td>12</td>
<td>38 1/2</td>
<td>4</td>
<td>Restricted</td>
</tr>
</tbody>
</table>

COMBINED WEIGHT OF COMPONENTS: 2,500 lb approx.

COMBINED VOLUME: 400 cu. ft. approx.

SHIP TONNAGE: 1 1/4 T approx.
### SCR-694

#### PART A - TECHNICAL CHARACTERISTICS

- **Frequency Range (MHz):** 3.8 - 6.5
- **Number of Crystals:** 2
- **Preset Frequencies:** 2
- **Antenna:** 15' whip AN-123, 12L.
- **Tuning:** MO or XTAL both

#### PART B - TACTICAL CHARACTERISTICS

- **Use:** Infantry, Paratroops, Mountain & Airborne Troops.
- **Range (Miles):** Stationary 30; Voice-15; Moving 15; Voice-7.
- **To Communicate With:** SCR-284; SCR-304; SCR-354.
- **To Replace In Part:** SCR-284.
- **Transportation:** Vehicle or Man Pack.
- **Type of Signal:** CW; Voice (AM).

#### 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. &amp; Recv. SC-1506</td>
<td>14 1/2&quot;</td>
<td>9&quot;</td>
<td>4 - 5&quot;</td>
<td>27 lb</td>
<td></td>
</tr>
<tr>
<td>Vibrator Unit PE-237</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generator ON-57</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combined Weight of Components:**

**Combined Volume:**

**Ship Tonnage:**
## SCR-704

### Part A - Technical Characteristics

- **Frequency Range:** (Mc) 1.25 - 60
- **Number of Crystals:** 4 x Crystal Filter
- **Preset Frequencies:** None
- **Antenna:** (No or X3TR) Does not apply
- **Sensitivity:** 1 microvolt input to receiver
- **Selectivity:** Variable
- **Power Source:** 115/250 VOLT 50 - 60 CYCLES AC
- **Similar Sets:** SCR-204
- **Power Output:** (Watts) Does not apply

### Part B - Tactical Characteristics

- **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 & CR

### 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 90-754</td>
<td>12.25&quot; x 23&quot; x 16.5&quot;</td>
<td>70#</td>
<td></td>
</tr>
<tr>
<td>Power Supply Unit RA-04</td>
<td>8.25&quot; x 13&quot; x 8.5&quot;</td>
<td>39#</td>
<td></td>
</tr>
<tr>
<td>Combined Weight of Components</td>
<td></td>
<td>109#</td>
<td></td>
</tr>
<tr>
<td>Combined Volume of Components</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ship Tonnage</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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

(Classification: Restricted)

**FREQUENCY RANGE:** 3.0 – 6.0 (Receiver Only)

**NUMBER OF CRYSTALS:** None

**PRESET FREQUENCIES:** None

**ANTENNA:** Loose wire

**TUNING:** (No or XTAL)

**SENSITIVITY:** Selectivity

**POWER SOURCE:** 12 V vehicle battery or hand generator.

**SIMILAR-SETS:**

**POWER OUTPUT:** (Watts)

**TUBES (Type and Number):**

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>115</td>
</tr>
<tr>
<td>1</td>
<td>152</td>
</tr>
<tr>
<td>1</td>
<td>332</td>
</tr>
</tbody>
</table>

**PART B - TACTICAL CHARACTERISTICS**

(Classification: Restricted)

**USE:** Infantry Parachute Airborne Troops.

**RANGE:** (Miles)

**TO COMMUNICATE WITH:**

**TO REPLACE IN PARTS:**

**TRANSPORTATION:** Vehicle or bag pack

**TYPE OF SIGNAL:** OR 2 Voice (AM)

---

**PART C - PRINCIPAL COMPONENTS**

(Classification: Restricted)

<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 Receiver, BC-1157-A</td>
<td>4()</td>
<td>5()</td>
</tr>
<tr>
<td>Mounting FT-382</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME:**

**SHIP TONNAGE:**

---

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

**INSTRUCTIONAL LITERATURE:**

**STATUS:**

**CHANGE IN STATUS:**

---

**THIS SHEET IS CLASSIFIED: RESTRICTED**

---

**PAGE 117**
**SCR-808**

**NOMENCLATURE DESIGNATION**

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

- FREQUENCY RANGE: 27.0 - 30.9 MHz
- NUMBER OF CRYSTALS: 2 (1 PER RÖHM)
- PRESET FREQUENCIES: Any 1 of 100 AVAILABLE
- ANTENNA: Variable (Mast Type, Vertical)
- TUNING: (NO or X-TAL) NO
- SENSITIVITY/SELECTIVITY
- POWER SOURCE: Vehicular Battery 12 or 24 V
- SIMILAR SETS: SCR-708; SCR-828

**POWER OUTPUT**: (Max) 35 W

**TUBES**: (Type and Number) NO-583-
- 1 Type 6A4; 2 Type 6A17; 6 Type 6A17/7 Spr.; 2 Type 12BA7; 2 Type 12BT7; 2 Type 6BR2; 2 Type 6SY2; 2 Type 6TX2; 2 Type 12207; NO-588-
- 2 Type 6F8/7 Spr.; 1 Type 6W16; 1 Type 6Q5; 1 Type 608; 1 Type 627; 1 Type 6087.

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

- USES: Company and更高 Commanders, Tank Destroyer Command, Field Artillery.

**RANGES** (Miles):
- 10 MILES IN OPEN VEHICLE,
- 5 - 7 MILES IN THREE MILES.

**TO COMMUNICATE WITH**: SCR-608; SCR-609; SCR-610; SCR-620; 10 CHANNELS TO BE COMMUNICATED WITH
- SCR-508; SCR-509; SCR-510.

**TO REPLACE IN PART**: SCR-601.

**TRANSPORTATION**: Motor Vehicle in which it is installed.

**TYPE OF SIGNAL**: FM SIGNAL 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>1. Radio Trans., NO-505</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Radio Receiver, NO-523</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Mounting FT-437</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS**: 250 lb (Approx.)

**COMBINED VOLUME**: 14 1/8" x 36" x 14".

**SHIP TONNAGE**: 0

**THIS SHEET IS CLASSIFIED**: UNCLASSIFIED

---

*Digitized by Google*
### PART A - TECHNICAL CHARACTERISTICS

**FREQUENCY RANGE:** 27 - 30 MHz

**NUMBER OF CRYSTALS:** 4 (Xtal B, C, D, E)

**PRESET FREQUENCIES:** 4

**ANTENNA:** Sectional with type, vertical.

**TUNING:** (MD or XTAL) MD

**SENSITIVITY:**

**SELECTIVITY:**

**POWER SOURCE:** 12 or 24 V, vehicle battery, dynamo generator DM-46 & DM-65 for 12V input with red, & 24 V input with red & black, respectively. Dynamo generator DM-46 & DM-65 for 24 V input with red & black, respectively.

**POWER OUTPUT:** (watts) 25

**TUBES:** (Type and number) SCR-210, 2-6AC-1/2 (two)
3-6J4/620, 1-12G7T; 3-5288.7, 12-128, 10-668, 3-6L6, 7E1; 2-6B6T, 2-5U150, 50; 3-13-3C 7, 1-6AP7.

**SIMILAR SETS:** SCR-210

### PART B - TACTICAL CHARACTERISTICS

**USE:** FAI Platform Commanders, Tank Destroyer Units.

**RANGE (MILES):** 5-7 in tanks; 10 miles in open vehicle.

**TO COMMUNICATE WITH:** SCR-605; SCR-609; SCR-610; SCR-625.

**TO REPLACE IN PART:** SCR-825.

**TRANSPORTATION:** Vehicle

**TYPE OF SIGNAL:** Voice (P.M.)

### 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 Transmitter, IC-509</td>
<td>14&quot; x 54&quot;</td>
<td>14 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>Radio Receiver, IC-925</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting FT-237</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMBINED WEIGHT OF COMPONENTS:**

**COMBINED VOLUME:**

**SHIP TONNAGE:**

---

*[Note: The table is truncated, and the document is in black and white]*
**TC-8**

**Nomenclature Designation**

**Status:**

**Instructional Literature:**

STI No T 8 T 1

---

**Radio Direction Finder Central TC-8**

Equipment contained in 2 shelters HD-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.

---

**Principal Components**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelter (2 each) HD-27</td>
<td>66.5&quot; x 76&quot; x 126&quot;</td>
<td>1750 #</td>
<td></td>
</tr>
<tr>
<td>Receiver BC-358 (2 each)</td>
<td>9.75&quot; x 12&quot; x 4&quot;</td>
<td>4.6 #</td>
<td></td>
</tr>
<tr>
<td>Receiver BC-354 (1 each)</td>
<td>9.75&quot; x 12&quot; x 4&quot;</td>
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**Combined Weight of Components:**

**Combined Volume of Components:**

**Ship Tonnage:**
RADIO INTERCEPT CENTRAL TC-9.

EQUIPMENT CONTAINED IN 9 SHELTERS. HD-27 EACH CARRIED BY TRUCK, CARGO, 2 1/2 TON GGG FOR PURPOSE OF INTERCEPTING, RECORDING, INTERPRETING, RADIO COMMUNICATIONS. CONSISTS OF RADIO RECEIVERS, RECORDERS, Switchboards, Antenna, Intercommunication and Monitoring System.

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SHIP Tonnage
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