

STATUS: Obs (-5); L/Std (-5A); S/Std (-5B); Std (-5C)

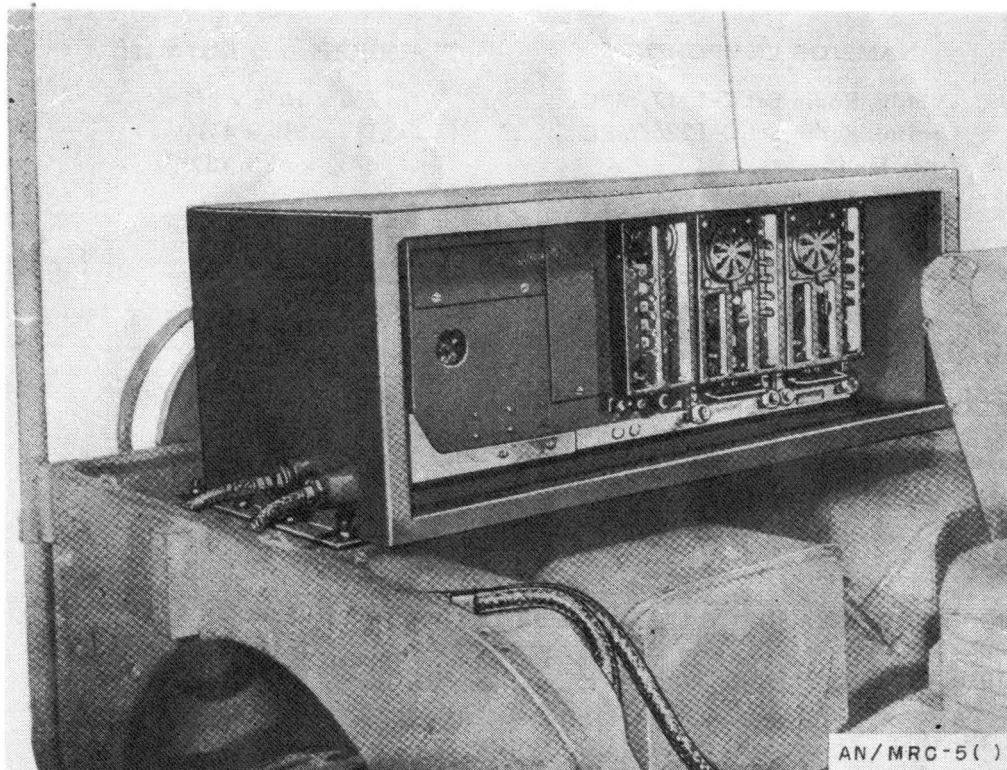
CLASSIFICATION OF EQUIPMENT: Unclassified

PREPARING SERVICE: USN

DATE OF THIS SHEET: 23 June 1956

AN/MRC-5()

RADIO SET



Radio Set AN/MRC-5() is a mobile, field, fm (voice) equipment used in internal security applications. It is mounted on a 1/4-ton truck (jeep) and consists primarily of a radio set and a remote control unit. Under certain conditions, this equipment can be immediately operated after being submerged.

The AN/MRC-5, AN/MRC-5A, AN/MRC-5B, and AN/MRC-5C are functionally similar, although components and type numbers vary. The AN/MRC-5 and AN/MRC-5C use Radio Set SCR-608; the A and B models use Radio Transmitter-Receiver Assembly OA-25A/MRC-5. The AN/MRC-5B includes an additional power generator, which operates from the engine of the vehicle and two additional storage batteries. The AN/MRC-5C uses Dynamotor DM-36 for receiving and Dynamotor DM-37 for transmitting.

AN/MRC-5()

INSTRUCTION LITERATURE: NAVSHIP 91811

USING SERVICE: USN

DATE OF THIS SHEET: 23 June 1956

RADIO SET

MAJOR COMPONENTS

QTY	NAME OF COMPONENT	DIMENSIONS (in.)	INSTALLED	WEIGHT (lb)
1	Control, Radio Set C-1217/MRC	7 $\frac{1}{4}$ x 10 $\frac{5}{8}$ x 8 $\frac{3}{4}$		
1	Control, Radio Set C-1226/MRC	1 $\frac{9}{16}$ x 3 $\frac{3}{16}$ x 4 $\frac{7}{8}$		
1	Truck M-38	67 $\frac{1}{4}$ x 62 x 132 $\frac{15}{16}$		
1	Radio Set SCR-608			181

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore and field operations.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE (IN MILES): 5 to 15.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27 to 38.9.

TYPE MODULATION: Fm (F3).

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 20 w (-5C); 35 w (-5, -5A, -5B).

POWER REQUIREMENTS: 24 v, 16 amp dc (from electrical sys of veh in which instl).

PHYSICAL CHARACTERISTICS

	DIMENSIONS (IN INCHES) OF EQUIPMENT (INSTALLED)	TOTAL WEIGHT (lb)	TOTAL VOLUME (cu ft)	SHIP TONS	TOTAL NO. PACKAGES
NET:	69 x 60 x 134 $\frac{1}{4}$	500			
DOMESTIC PACK:					
EXPORT PACK:					

STATUS: Obs (-6); L/Std (-6A); S/Std (-6B); Std (-6C)

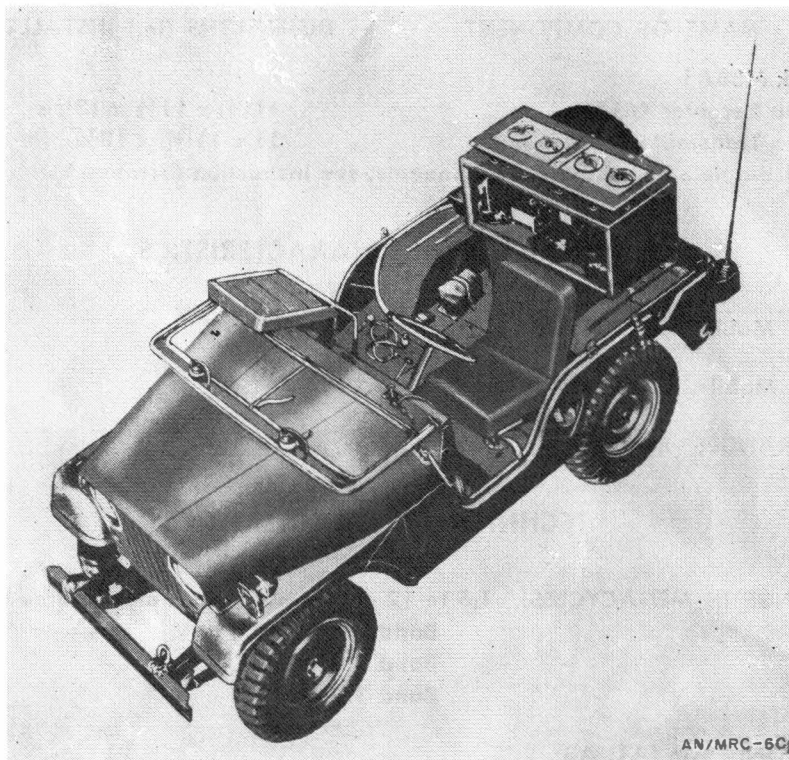
CLASSIFICATION OF EQUIPMENT: Unclassified

PREPARING SERVICE: USN

DATE OF THIS SHEET: 9 May 1956

AN/MRC-6()

RADIO SET



AN/MRC-6C

Radio Set AN/MRC-6() is a complete, vehicular radio station for short-range point-to-point communication in ground-to-ground tactical field use.

This equipment is so designed and constructed that operation is possible after submersion during deep-water fording or landing operations. Models A, B, and C are functionally similar. The AN/MRC-6B, in addition to the vehicle electrical source, includes two additional storage batteries.

AN/MRC-6()

RADIO SET

INSTRUCTION LITERATURE: NAVSHIPS 91811

USING SERVICE: USN

DATE OF THIS SHEET: 9 May 1956

MAJOR COMPONENTS

QTY	NAME OF COMPONENT	DIMENSIONS (in.) INSTALLED	WEIGHT (lb)
1	Truck M38A1		2,665
1	Radio Receiver 46159-A	11 ¹¹ / ₁₆ x 11 ⁷ / ₈ x 13 ¹³ / ₁₆	38.1
1	Radio Transmitter 52245-A	11 x 11 ¹³ / ₁₆ x 13 ³ / ₄	48
(For complete list of major components, see instruction literature.)			

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Mobile shore facilities.

INSTALLATION: Mobile.

APPROXIMATE RANGE: Medium.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 1.5 to 12 continuously variable, in three bands:

Band 1: 1.5 to 3

Band 2: 3 to 6

Band 3: 6 to 12

TYPE MODULATION: Am (A1, A3).

TYPE OF SIGNAL: Cw or voice.

POWER OUTPUT: 25 w (cw); 10 w (voice).

POWER REQUIREMENTS: 24 v dc (obtained from veh electrical sys).

PHYSICAL CHARACTERISTICS

DIMENSIONS (IN INCHES) OF EQUIPMENT (INSTALLED)	TOTAL WEIGHT (lb)	TOTAL VOLUME (cu ft)	SHIP TONS	TOTAL NO. PACKAGES
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NET: The equipment is shipped uncrated and fully equipped.

DOMESTIC PACK:

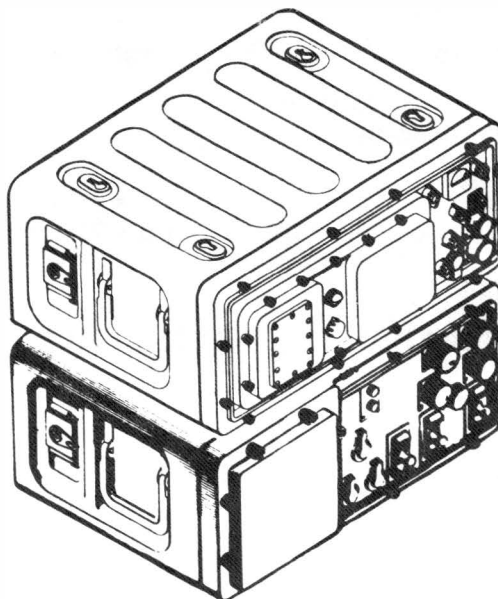
EXPORT PACK:

STATUS: Std

CLASSIFICATION OF EQUIPMENT: Unclassified

PREPARING SERVICE: USN

DATE OF THIS SHEET: 28 June 1956

AN/MRC-13()**RADIO SET**

AN/MRC-13()

Radio Set AN/MRC-13() is a general service, mobile, medium-range, am (mcw and voice) equipment used for uhf communication with aircraft, ships, and mobile field units.

This equipment consists essentially of VHF Radio Transmitting and Receiving Equipment MAR, which is mounted in a truck. It is similar to Radio Set AN/MRC-12() except that the latter includes a standby receiver (Portable Radio Receiving Equipment RDR).

The AN/MRC-13 and AN/MRC-13A operate from 13-volt, self-contained batteries; and the AN/MRC-13B, from a 24-volt vehicular battery.

AN/MRC-13()

RADIO SET

INSTRUCTION LITERATURE:

USING SERVICE: USN

DATE OF THIS SHEET: 28 June 1956

MAJOR COMPONENTS

QTY	NAME OF COMPONENT	DIMENSIONS (in.)	INSTALLED	WEIGHT (lb)
1	Truck M38A1(-13B), V-35/U(-13A), or Reconnaissance Car 10182-D(-13) containing:			
	1 Transmitter-Receiver 43067	9½ x 21¼ x 16¼		45
	1 Modulator-Dynamotor Unit 50248	9½ x 21¼ x 16¼		45
	1 Installation kit			

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Mobile field units.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE: Short.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 225 to 390 (10 preset freq).

TYPE MODULATION: Am (A2, A3).

TYPE OF SIGNAL: Mcw, voice.

POWER OUTPUT: 8 w.

POWER REQUIREMENTS: 430 w, 115/230 v, 50/60 cy, 1 ph ac; 430 w, 13 to 24/115/230 v dc.

PHYSICAL CHARACTERISTICS

DIMENSIONS (IN INCHES) OF EQUIPMENT (INSTALLED)	TOTAL WEIGHT (lb)	TOTAL VOLUME (cu ft)	SHIP TONS	TOTAL NO. PACKAGES
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NET:

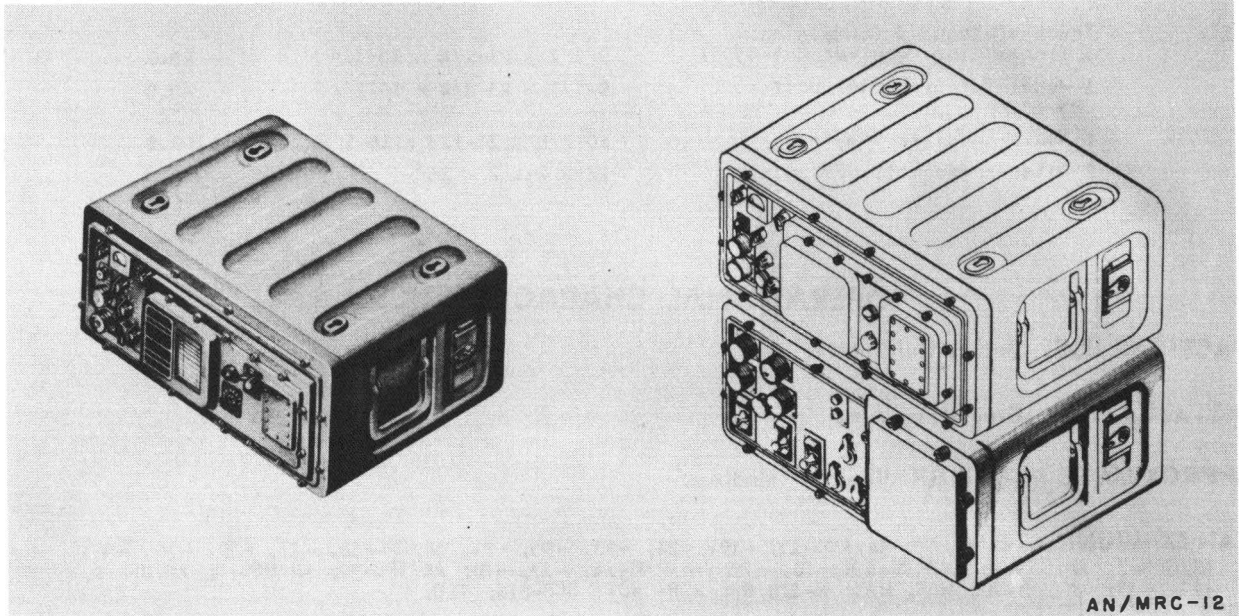
DOMESTIC PACK:

EXPORT PACK:

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Navy
DATE OF THIS SHEET: 9 Jun 52

AN/MRC-12

RADIO SET



AN/MRC-12

Radio Set AN/MRC-12 is a general service, mobile, medium-range a-m (mcw, voice) equipment for u-h-f communications with aircraft, ships, and field units.

This set consists of Truck 10182D (1/4 ton), UHF Radio Transmitting and Receiving Equipment MAR (less a-c/d-c power supply), Portable Radio Receiving Equipment RDR (less power supply), Installation Kit MX-802/MRC and two antennas.

Automatic rapid selection of any one of 10 preset crystal-controlled channels is possible in either the RDR or MAR equipments.

The receiver circuits include automatic volume control, a noise-peak limiter for blocking interference, and a silencer circuit for operation during no-signal periods.

AN/MRC-12	INSTRUCTION LITERATURE: Not Available
	CLASSIFICATION OF EQUIPMENT: Restricted
RADIO SET	USING SERVICE: Navy
	DATE OF THIS SHEET: 9 Jun 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Truck NT-10192-D Containing: 1 Transmitter-Receiver CRV-43067	9-1/2 x 21-1/4 x 16-1/4	45.0
	1 Modulator-Dynamotor Unit CRV-50243	9-1/2 x 21-1/4 x 16-1/4	45.0
	1 Radio Receiver CRV-46233	10-7/8 x 21-1/4 x 16-1/4	100.0
	2 Antenna Assembly CRV-66147	22 x 2-1/2 x 25	3.5

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Mobile field units.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE (IN MILES): Medium.

CAN COMMUNICATE WITH: AN/ARC-12, -19, -27, -30, -33, -34; AN/GRC-16, -27, -29, -30, -32;
AN/GRR-7; AN/GRT-3; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-32; AN/URC-4; AN/URR-9,
-12, -13; AN/URT-10; MAR; MAY; R-278/GR; RDR; RDZ; SCR-616; TED.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 225-390.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Mcw, voice.

POWER OUTPUT: Transmitter: 8 w.
Receivers: 1 w into 600 ohm load.

POWER REQUIREMENTS: 12 v dc from 2 batteries BB-221/U.

PHYSICAL CHARACTERISTICS

Information on Radio Set AN/MRC-12 not available.

STATUS: Standard

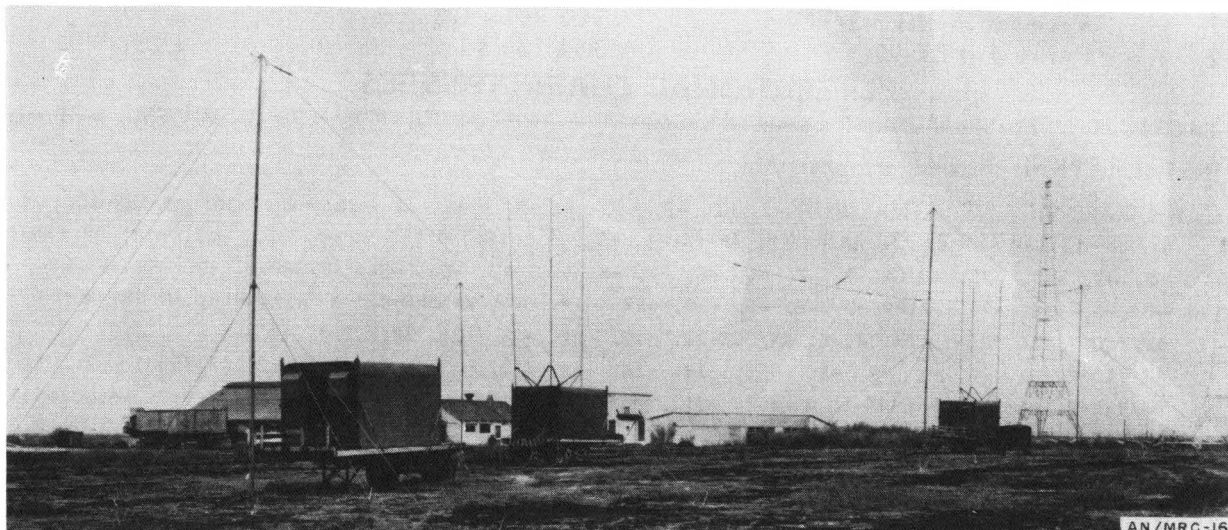
CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Navy

DATE OF THIS SHEET: 14 May 52

AN/MRC-16

RADIO SET



Radio Set AN/MRC-16 is a mobile, m-f, h-f, and v-h-f receiving and transmitting equipment used as a ground radio command center in two-way communication with aircraft or with other ground radio stations. It has provision for a-m (voice, mcw, and cw) operation in general air warning, fighter air defense applications and in general air-to-ground and short-range ground-to-ground communication. An f-m radio set is included for communication with tactical ground elements.

This equipment consists of a receiver shelter, a transmitter shelter, a power shelter, 10 remote control stations, two trailer-drawn power units, and associated components and accessories. The transmitter shelter contains the following Radio Transmitting Equipments: two TCK's, one TBM, two TCS's, and three TDQ's.

The receiver shelter contains five Radio Receiving Equipments RAO and RCK and one Radio Set SCR-608.

In the power shelter are Power Unit PE-85-M, for supplying power to the transmitting shelter, and a motor generator for supplying power to Radio Transmitting Equipment TBM, which alone draws 5,000 w.

The receiver shelter is powered by one of the trailer-drawn Power Units PE-95, and the other serves as an auxiliary power supply for the transmitter shelter.

The remote control stations, which are not designed to be operated more than 1/2 mile distant from the main station equipment, consist essentially of a telephone set and a hand telegraph key, which are connected to any of the radio transmitting or receiving components by means of an adapter.

AN/MRC-16

INSTRUCTION LITERATURE:
NavShips 91607
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Navy
DATE OF THIS SHEET: 14 May 52

RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Shelter S-1/FM	98 x 100 x 173	9,700
1	Shelter S-2/MRN-3	98 x 100 x 173	9,950
1	Receiver Shelter S-3/TPS-1	98 x 100 x 173	8,150
2	Power Unit PE-95	75 x 74 x 95	4,200

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore aircraft command centers. APPROXIMATE RANGE (IN MILES): Medium.

INSTALLATION: Ground, transportable.

CAN COMMUNICATE WITH: AN/ARC-1, -2, -3, -5, -8, -9, -18, -21, -25, -28, -36; AN/ARR-15;
AN/ART-13; AN/CRC-2, -3; AN/CRT-3; AN/FRC-6, -7, -9, -10; AN/FRT-5, -6, -15, -17, -18; AN/FRR-3,
-4, -7, -12, -28; AN/GRC-3, -4, -5, -6, -7, -8, -9, -13, -26, -30; AN/GRR-2, -3, -5; AN/MRC-2,
-5, -6, -16, -22; AN/PRC-7, -8, -9, -10, -17, -19, -20; AN/SRR-3, -8, -12, -13; AN/SRT-40;
AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -22, -23, -28; AN/URT-2, -3, -4, -7, -10;
AN/VRC-1, -2, -5, -8, -9, -10, -13, -14, -15, -16, -17, -18, -20, -21, -22; AN/VRQ-1, -2, -3;
AN/VRR-2, -3, -4; AN/VRT-1; BC-191, -312, -314, -339, -342, -344, -348, -401, -447, -610, -639,
-640, -779, -787, -794, -1004; MAN; MAW; MBF; MBS; MN; MQ; OA-58/FRC, -59/FRC, -60/FRC; R-62/PR,
-80/PR, -96/SR, -129/U, -137/GR, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U,
-213/U, -274/FR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBK; RBM; RBO; RBP;
RBQ; RBS; RCF; RCG; RCH; RCO; RDA; RDE; RDM; RC-52, -103, -256, -257; SCR-177, -188, -193,
-244, -274, -281, -293, -294, -298, -399, -499, -506, -508, -509, -510, -522, -528, -536, -542,
-543, -573, -574, -575, -585, -593, -607, -608, -609, -610, -616, -619, -624, -628, -641, -643,
-644, -678, -694, -704, -808, -828; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -172/FRT, -173/FR,
-174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBS; TBU; TBW; TBX; TBY;
TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDG; TDH; TDM; TDO; TDQ; TDT; TEB; TEC; TEF;
AR-88 (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Hammarlund SP-600-JX; Marconi
TH-41-B; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Transmitting: 1.5 - 18.0, 27.0 - 38.9 (fm), and 115 - 156.
Receiving: 0.54 - 30, 27.0 - 38.9 (fm), and 115 - 156.

TYPE MODULATION: Am, Fm.

TYPE OF SIGNAL: Am: Voice, mcw, cw.
Fm: Voice.**POWER OUTPUT:** Transmitters

TCK: 400 w on cw, 100 w on voice.
TBM: 500 w on cw, 350 w on mcw and voice.
TDQ: 45 w on cw, 25 w on mcw and voice.
TCS: 40 w on cw, 20 w on voice.
SCR-608: 20 w.

Receivers

RAO: 0.3 w into 600 ohms.
RCK: 15mw into 600 ohms.
TCS: 6 mw.
SCR-608: 2 w to loudspeaker, 200 mw to headset.

POWER REQUIREMENTS:

Transmitting: 13.6 kw, 220 v, 50/60 cyc, 3 phase. (Including TBM, which draws 5 kw.)
Receiving: (5kw, 220 v, 50/60 cyc, 1 phase.

PHYSICAL CHARACTERISTICS

Radio Set AN/MRC-16 weighs 36,200 pounds net, volume 3,550 cu ft, 88.6 ship tons. Packed for domestic shipment: total weight 36,200 pounds, total volume 3,550 cu ft, 88.6 ship tons.

STATUS: Std

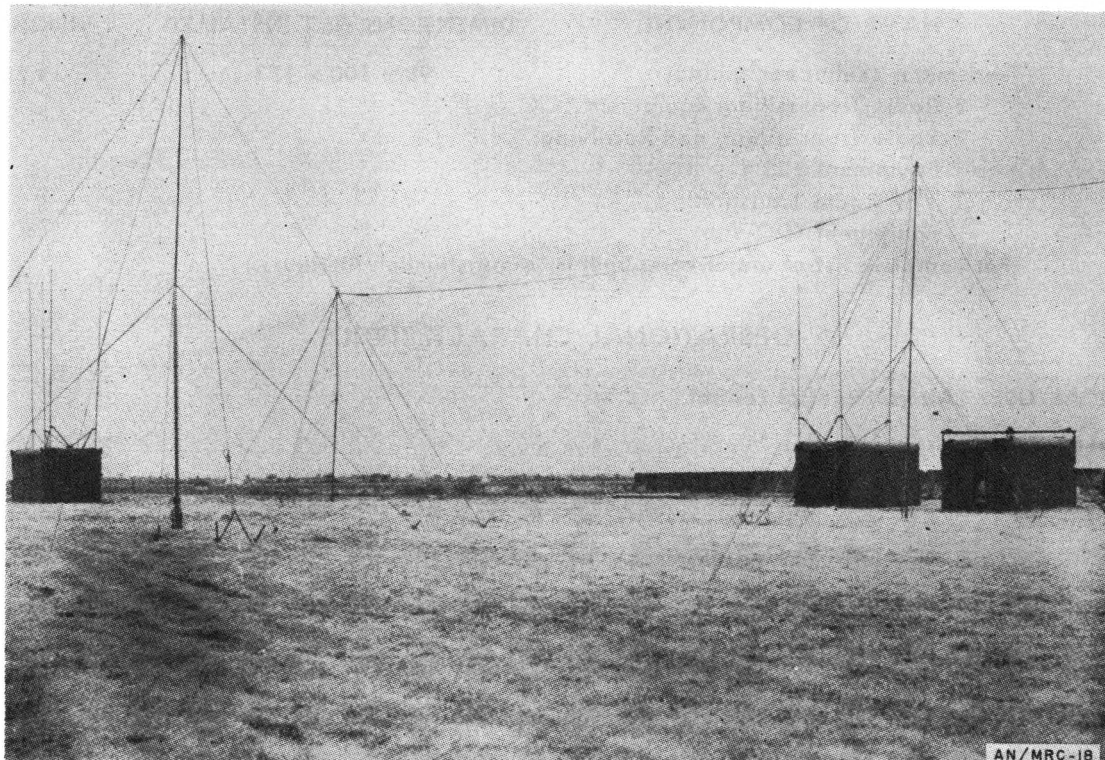
CLASSIFICATION OF EQUIPMENT: Unclassified

PREPARING SERVICE: USN

DATE OF THIS SHEET: 23 June 1956

AN/MRC-18

RADIO SET



Radio Set AN/MRC-18 is used for communication between aircraft in flight and ground command centers, and can also be used in ground, point-to-point communication applications.

This equipment has a receiver shelter, a transmitter shelter, a power shelter, 3 power trailers, and 10 remote-control stations. A remote station consists of a telephone set and a hand telegraph key, but remote operation is limited to $\frac{1}{2}$ mile from the equipment.

AN/MRC-18

RADIO SET

JANAP 161

INSTRUCTION LITERATURE: NAVSHIPS 91487

USING SERVICE: USN

DATE OF THIS SHEET: 23 June 1956

MAJOR COMPONENTS

QTY	NAME OF COMPONENT	DIMENSIONS (in.) INSTALLED	WEIGHT (lb)
1	Transmitter shelter containing: 3 Radio Transmitting Equipment TCK 2 Radio Transmitting and Receiving Equipment TCS 2 VHF Radio Transmitting Equipment TDQ	98 x 100 x 173	9,700

(For complete list of major components, see instruction literature.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft control central.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE: Medium.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: .54 to 30 (rcvg); 1.5 to 18 (xmtg); 27 to 38.9, 115 to 156 (xmtg and rcvg).

TYPE MODULATION: Am (A1, A2, A3); fm (F3).

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT:

SCR-608: 20 w

TCK: 100 w (A3); 400 w (A1)

TCS: 20 w (A3); 40 w (A1)

TDQ: 25 w (A2, A3); 45 w (A1)

POWER REQUIREMENTS:

PE-85M: 10 kw, 220 v, 60 cy, 3 ph ac (for xmtr shelter).

PE-95: 5 kw, 220 v, 60 cy, 1 ph ac (for rcvr shelter).

PHYSICAL CHARACTERISTICS

	DIMENSIONS (IN INCHES) OF EQUIPMENT (INSTALLED)	TOTAL WEIGHT (lb)	TOTAL VOLUME (cu ft)	SHIP TONS	TOTAL NO. PACKAGES
NET:					
DOMESTIC PACK:		32,000	3,245	81	6
EXPORT PACK:					