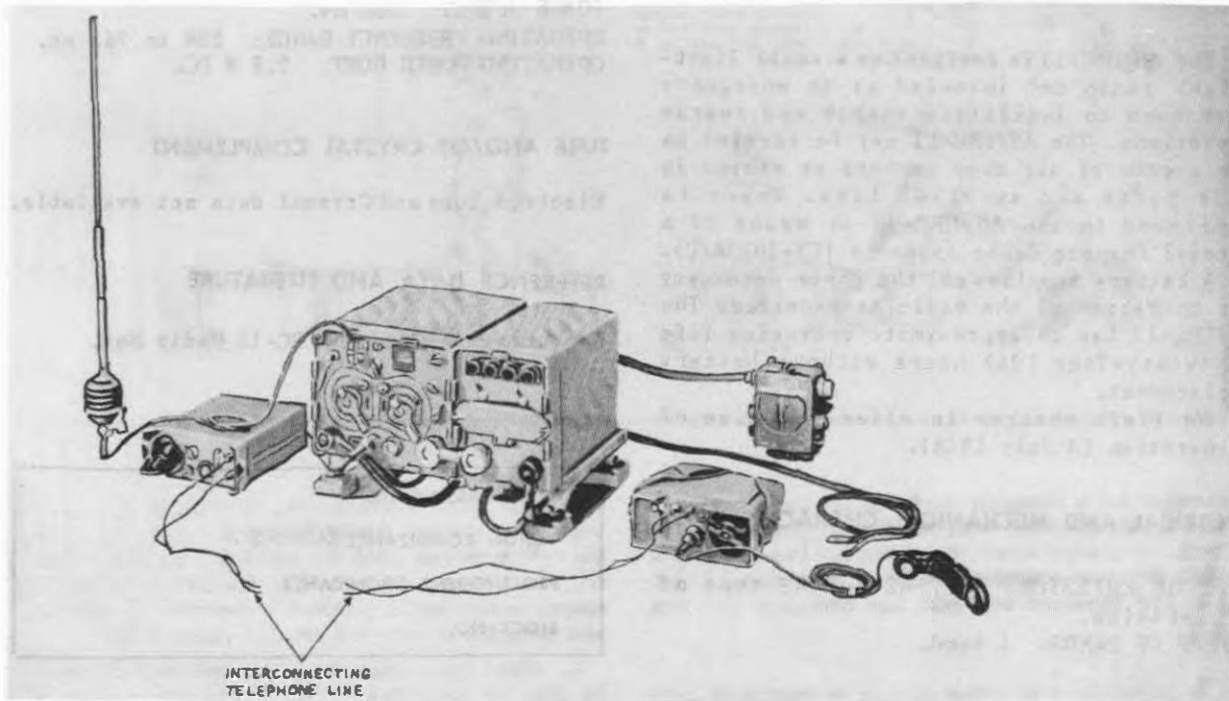


June 1957

RADIO SET

Radio-Transceivers
**AN/URC-16,16X,16Y,
 17,17X,17Y,18,18X,18Y**



Radio Set AN/URC-16, 16X, 16Y, 17, 17X, 17Y, 18, 18X, 18Y.

FUNCTIONAL DESCRIPTION

The AN/URC-16, 16X, 16Y, 17, 17X, 17Y, 18, 18X, 18Y are portable radio sets designed for F3 type of emission within the frequency range of 20.0 to 54.9 mc.

Data on this sheet reflects the following field changes, F/C No.2 (17 September 1956).

RELATION TO OTHER EQUIPMENT

The AN/URC-16, 16X, 16Y, 17, 17X, 17Y, 18, 18X, 18Y are similar to the AN/SRC-10, 10X, 10Y, 11, 11Y, 116, 12, 12X, 12Y, 13, 13X, 13Y, 14, 14X, 14Y, 15, 15X, 15Y except for some of the components used.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF TRANSMISSION AND RECEPTION: Voice and 1600 cps FM signals.

FREQUENCY RANGE

AN/URC-16, 16X, 16Y: 20 to 27.9 mc.

AN/URC-17, 17X, 17Y: 27 to 38.9 mc.

AN/URC-18, 18X, 18Y: 38 to 54.9 mc.

TYPE OF TUNING: Choice of channels or continuous tuning.

RANGE: 10 to 15 mi.

TRANSMITTER POWER OUTPUT

AN/URC-16, 16X, 17, 17X, 18, 18X: 16 W on high and 2 W on low.

AN/URC-16Y, 17Y, 18Y: 13 W.

RECEIVER OUTPUT: Approx. 1 W at speaker and 50 mw at phones. A third output of approx. 30 mw at fixed-level output is not used.

MICROPHONE INPUT IMPEDANCE: 150 ohms.

AUDIO OUTPUT IMPEDANCE: 600 ohms at all audio output terminals.

RECEIVER SENSITIVITY: 30 dv signal-plus-noise to noise ratio with 0.5 uv input signal.

POWER REQUIREMENTS

AN/URC-16, 17, 18: 25.2 v DC.

AN/URC-16X, 17X, 18X: 12.6 v DC.

AN/URC-16Y, 17Y, 18Y: Handcranked generator and dry batteries (5) BA-403/U, (1) BA-419/U.

MANUFACTURER'S OR CONTRACTOR'S DATA

AN/URC-16, 16X, 16Y, 17, 17X, 17Y, 18, 18X, 18Y

Contract MIPR 800-29092, 29094, 29500.

AN/URC-16Y, 17Y, 18Y,

Contract MIPR-800-39406.

Approximate Cost: \$1500.00 with equipment spares each.

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Radio-Transceivers

AN/URC-16,16X,16Y,
17,17X,17Y,18,18X,18Y

RADIO SET

TUBE AND/OR CRYSTAL COMPLEMENT

AN/URC-16, 16X, 17, 17X, 18, 18X
 (2) 1A3 (2) 1AE4
 (2) 1L4 (4) 1R5
 (1) 1S5 (4) 1U4
 (1) 6626/OA2WA (1) 6627/OB2WA
 (1) 2E24 (1) 3A4
 (3) 3A5 (2) 3B4
 (4) 3Q4 (2) 1007
 (1) 5654/6AK5W
 Total Tubes: (31)

AN/URC-16Y, 17Y, 18Y
 (2) 1A3 (2) 1AE4
 (2) 1L4 (4) 1R5
 (1) 1S5 (4) 1U4
 (1) 2E24 (1) 3A4
 (3) 3A5 (2) 3B4
 (4) 3Q4 (1) 5654/6AK5W
 Total Tubes: (27)

AN/URC-16, 16X, 16Y, AN/URC-17, 17X, 17Y
 9 Crystals 13 Crystals
 Total Crystals: (9) Total Crystals: (13)

AN/URC-18, 18X AN/URC-18Y
 18 Crystals 16 Crystals
 Total Crystals: (18) Total Crystals: (16)

REFERENCE DATA AND LITERATURE

TM11-286: Technical Manual for Radio Sets.
 AN/URC-16, 16X, 16Y, 17, 17X, 17Y, 18,
 18X, 18Y (AN/VRC-8, -9, -10)
 BUSHIPS LTR S67/1-7 Ser 881E-1-3528, dated
 1 September 1955.

TYPE CLASSIFICATION	
DESIGN COGNIZANCE	TASSA
PROCUREMENT COGNIZANCE	
STOCK NO.	

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
AN/URC-16 16X 16Y			
1 1 1	Receiver-Transmitter RT-66/GRC	9 X 11-1/4 X 13	35
1	Power Supply PP-112/GR (24VDC)	8 X 9 X 13	33
1	Power Supply PP-109/GR (12 VDC)	8 X 9 X 13	33
1 1	Mounting MT-299/GR	4 X 13 X 20	24
1 1	Mast Base AB-15/GR		
1 1	Mast Section MS-116A	39-1/2 in. 1g	1.6
1 1	Mast Section MS-117A	39-1/2 in. 1g	1.4
1 1	Mast Section MS-118A	39-1/2 in. 1g	0.5
1 1	Control Box C-375/VRC	4 X 7 X 7	3.5
1	Modification Kit MX-898/GR		
1 1 1	Loudspeaker LS-166/U		
1 1 1	Bag CW-206/GR	3 X 5 X 40	3.5
2 2	Handset H-33()/PT	2-1/16 X 3 X 3	2
1 1	Coaxial Adapter UG-273/U		0.34
1 1	Coaxial Adapter UG-306/U		0.36
1	Dry Battery BA 403/U		
1 1	Antenna Cable CG-56B/U	50 in. 1g	0.5
1	Dry Battery BA-419/U		
1 1	Cable Assembly CX-1211/U		0.4
2 2 2	Technical Manual TM11-286		
AN/URC-17 17X 17Y			
1 1 1	Receiver-Transmitter RT-67/GRC	9 X 11-1/4 X 13	35
1	Power Supply PP-112/GR (24VDC)	8 X 9 X 13	33
1	Power Supply PP-109/GR (12VDC)	8 X 9 X 13	33
1 1	Mounting MT-299/GR	4 X 13 X 20	24
1 1	Mast Base AB-15/GR		
1 1	Mast Section MS-116A	39-1/2 in. 1g	1.6
1 1	Mast Section MS-117A	39-1/2 in. 1g	1.4
1 1	Mast Section MS-118A	39-1/2 in. 1g	0.5
1 1	Control Box C-375/VRC	4 X 7 X 7	3.5

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17,17X,17Y,18,18X,18Y

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT			NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
AN/URC-					
17	17X	17Y			
		1	Modification Kit MX-898/GR		
1	1	1	Loudspeaker LS-166/U		3.5
1	1	1	Bag CW-206/GR	3 X 5 X 40	2
2	2		Handset H-33 ()/PT	2-1/16 X 3 X 3	0.34
1	1		Coaxial Adapter UG-273/U		0.36
1	1		Coaxial Adapter UG-306/U		0.5
1	1		Antenna Cable CG-530/U	50 in. lg	
		5	Dry Battery BA-403/U		
		1	Dry Battery BA-419/U		
1	1		Cable Assembly CX-1211/U		0.4
2	2	2	Technical Manual TM11-286		
AN/URC-					
18	18X	18Y			
1	1	1	Receiver-Transmitter RT-68/GRC	9 X 11-1/4 X 13	35
1			Power Supply PP-112/GR (24 VDC)	8 X 9 X 13	33
	1		Power Supply PP-109/GR (12 VDC)	8 X 9 X 13	33
1	1		Mounting MT-299/GR	4 X 13 X 20	24
1	1		Mast Base AB-15/GR		
1	1		Mast Section MS-117A	39-1/2 in. lg	1.4
1	1		Mast Section AB-24/GR	23-1/2 in. lg	0.13
1	1		Control Box C-375/VRC	4 X 7 X 7	3.5
		1	Modification Kit MX-898/GR		
1	1	1	Loudspeaker LS-166/U		3.5
1	1	1	Bag CW-206/GR	3 X 5 X 40	2
2	2		Handset H-33() PT	2-1/16 X 3 X 3	0.34
1	1		Coaxial Adapter UG-273/U		0.36
1	1		Coaxial Adapter UG-306/U		0.5
1	1		Antenna Cable CG-530/U	50 in. lg	
		5	Dry Battery BA-403/U		
		1	Dry Battery BA-419/U		
1	1		Cable Assembly CX-1211/U		0.4
2	2	2	Technical Manual TM11-286		