

28 August 1962

RADIO SET AN/URC-20

Cog Service:

FSN:

Functional Class:

USA

USN

USAF

TYPE CLASS:

MANUFACTURER'S NAME/CODE NUMBER:

(No Illustration Available)

FUNCTIONAL DESCRIPTION:

The Radio Set AN/URC-20 is used as a general purpose, portable, ground installation and in Truck, 1/4 ton. Input power requirements are direct current (DC), furnished by Generator G-8/GRC. The AN/URC-20 combines Radio Set AN/VRC-8 and Modification Kit MX-898/GR.

No field changes in effect at time of preparation (25 April 1961).

TECHNICAL CHARACTERISTICS:

TYPE OF INSTALLATION: Portable, ground and vehicular.

TYPE OF EMISSION: F3 type.

NUMBER OF BANDS: 1 band.

NUMBER OF CHANNELS: 80 channels.

FREQUENCY RANGE: 20 to 27.9 mc.

POWER OUTPUT: 16 W.

POWER SUPPLY: DC Generator G-8/GRC.

RELATION TO OTHER EQUIPMENT:

The AN/URC-20 is similar to Radio Set AN/URC-16Y except it includes different mounting provisions.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
	Radio Set AN/URC-20 consists of:			
1	Receiver-Transmitter RT-66/GRC		9 x 11-3/16 x 12-13/16	
1	Mast Base AB-15/GRC			
1	Case CY-6B4/GR		3-1/8 x 4-1/2 x 9-7/8	
1	Power Supply PP-112/GR		7-5/16 x 9-1/4 x 12-7/8	
1	Control Box C-375/VRC		3-1/4 x 6-13/16 x 7	
1	Local Control C-434/GRC			
2	Mast Section MS-116-AG		0.393 dia x 39-1/2	
2	Mast Section MS-117-AG		0.373 dia x 39-1/2	
2	Mast Section MS-118-AG		0.246 dia x 39-1/2	
1	Mounting MT-299/GR		3-7/16 x 12-1/2 x 19-3/4	

AN/URC-20 RADIO SET

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Remote Control C-433/GRC		3-9/16 x 6-7/16 x 8-9/16	
1	Handset H-33/PT			
1	Generator G-8/GRC		6-1/2 x 8-7/8 x 10	
1	Case CY-590/GR		5-3/8 x 7-1/4 x 15-5/8	
1	Mast Section AB-22/GR		11/32 dia x 23-1/2	
3	Mast Section AB-23/GR		7/32 dia x 23-1/2	
1	Mast Section AB-24/GR		7/32 dia x 23-1/2	
1	Mounting M7-652/GR		3/8 dia x 5-5/16	

REFERENCE DATA AND LITERATURE:

Nomenclature Card for Radio Set AN/URC-20.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Data not available.

CRYSTALS: Data not available.

SEMI-CONDUCTORS: Data not available.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
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PROCUREMENT DATA

PROCURING SERVICE: DESIGN COG: USN, BuShips
SPEC &/OR DWG:

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
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28 August 1962
Cog Service:

FSN:

Functional Class:

RADIO SET AN/URC-21

USA

USN

USAF

TYPE CLASS:

MANUFACTURER'S NAME/CODE NUMBER:

(No Illustration Available)

FUNCTIONAL DESCRIPTION:

The AN/URC-21 is used as a general purpose, portable, ground installation and in Truck, 1/4 ton. Input power requirements are direct current (DC), furnished by Generator G-8/GRC. Channel separation is one channel for every 10 kilocycles (KC) of tuning range. Radio Set AN/URC-21 combines Radio Set AN/VRC-9 and Modification Kit MX-898/GR.

No field changes in effect at time of preparation (24 April 1961).

TECHNICAL CHARACTERISTICS:

TYPE OF INSTALLATION: Portable, ground and vehicular.

TYPE OF EMISSION: F3 type.

NUMBER OF BANDS: 1 band.

NUMBER OF CHANNELS: 120 channels.

FREQUENCY RANGE: 27 to 38.9 mc.

POWER OUTPUT: 16 W.

POWER SUPPLY: DC Generator G-8/GRC.

RELATION TO OTHER EQUIPMENT:

The AN/URC-21 is similar to Radio Set AN/URC-17Y except it includes different mounting provisions.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
	Radio Set AN/URC-21 consists of:			
1	Receiver-Transmitter RT-67/GRC		9 x 11-3/16 x 12-13/16	
1	Mast Base AB-15/GR			
1	Case CY-684/GR		3-1/8 x 4-1/2 x 9-7/8	
1	Power Supply PP-112/GR		7-5/16 x 9-1/4 x 12-7/8	
1	Control Box C-375/VRC		3-1/4 x 6-13/16 x 7	
1	Local Control C-434/GRC			
2	Mast Section MS-116-AG		0.393 dia x 39-1/2	
2	Mast Section MS-117-AG		0.373 dia x 39-1/2	
2	Mast Section MS-118-AG		0.246 dia x 39-1/2	

AN/URC-21 RADIO SET

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Mounting MT-299/GR		3-7/16 x 12-1/2 x 19-3/4	
1	Remote Control C-433/GRC		3-9/16 x 6-7/16 x 8-9/16	
1	Handset H-33/PT			
1	Generator G-8/GRC		6-1/2 x 8-7/8 x 10	
1	Case CY-590/GR		5-3/8 x 7-1/4 x 15-5/8	
1	Mast Section AB-22/GR		11/32 dia x 23-1/2	
3	Mast Section AB-23/GR		7/32 dia x 23-1/2	
1	Mast Section AB-24/GR		7/32 dia x 23-1/2	
1	Mounting MT-652/GR		3/8 dia x 5-5/16	

REFERENCE DATA AND LITERATURE:

Nomenclature Card for Radio Set AN/URC-21.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Data not available.

CRYSTALS: Data not available.

SEMI-CONDUCTORS: Data not available.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
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PROCUREMENT DATA

PROCURING SERVICE:
SPEC &/OR DWG:

DESIGN COG: USN, BuShips

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
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August 1957

Radio-Transceivers

RADIO SET**AN/URC-22****FUNCTIONAL DESCRIPTION**

The AN/URC-22 is designed for general purpose use, for vehicular and ground use.

No field changes in effect at time of preparation (17 December 1956).

OPERATING POWER: Supplied by Hand Generator
G-8/GRC

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

RELATION TO OTHER EQUIPMENT

Similar to Radio Set AN/URC-18Y except includes different mtg provisions.

REFERENCE DATA AND LITERATURE

Nomenclature card.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

FREQUENCY RANGE: 38 to 54.9 mc, 1 band

TYPE EMISSION: F3.

FREQUENCY CHANNELS: 170 channels, one every
100 kc.

TYPE CLASSIFICATION DESIGN COGNIZANCE PROCUREMENT COGNIZANCE STOCK NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIP	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
2	Mast Section AB-24/GR		
1	Cable, Special Purpose, Assy CX-1211/U		
1	Mounting MT-299/GR		
1	Remote Control C-433/GRC		
1	Connector and Bond Nut (Appleton no. 61007) and BL-50		
1	Handset H-33/PT		
1	Generator G-8/GRC		
1	Case CY-590/GR		
1	Mast Section AB-22/GR		
1	Mast Section AB-23/GR		
1	Mast Section AB-25/GR		
1	Power Cable Assy CX-1209/U		
1	Power Cable Assy CX-1210/U		
1	Receiver-Transmitter RT-68/GRC		
1	Mast Base AB-15/GR		
1	Case CX-684/GR		
1	RF Cable Assembly CG-530/U		
1	Adapter UG-306/U		
1	Power supply PP-112/GR		
1	Bag CW-206/GR		
1	Cable, Special Purpose UM-46/U		
1	Control Box C-374/VRC		
1	Bag CW-189/GR		
1	Adapter UG-273/U		
1	Local Control C-434/GRC		
2	Mast Section MS-117-A		
1	Mounting MT-652/GR		
1	Headset H-33/PT		
1	Bag CW-187/GR		
1	Bag CW-188/GR		