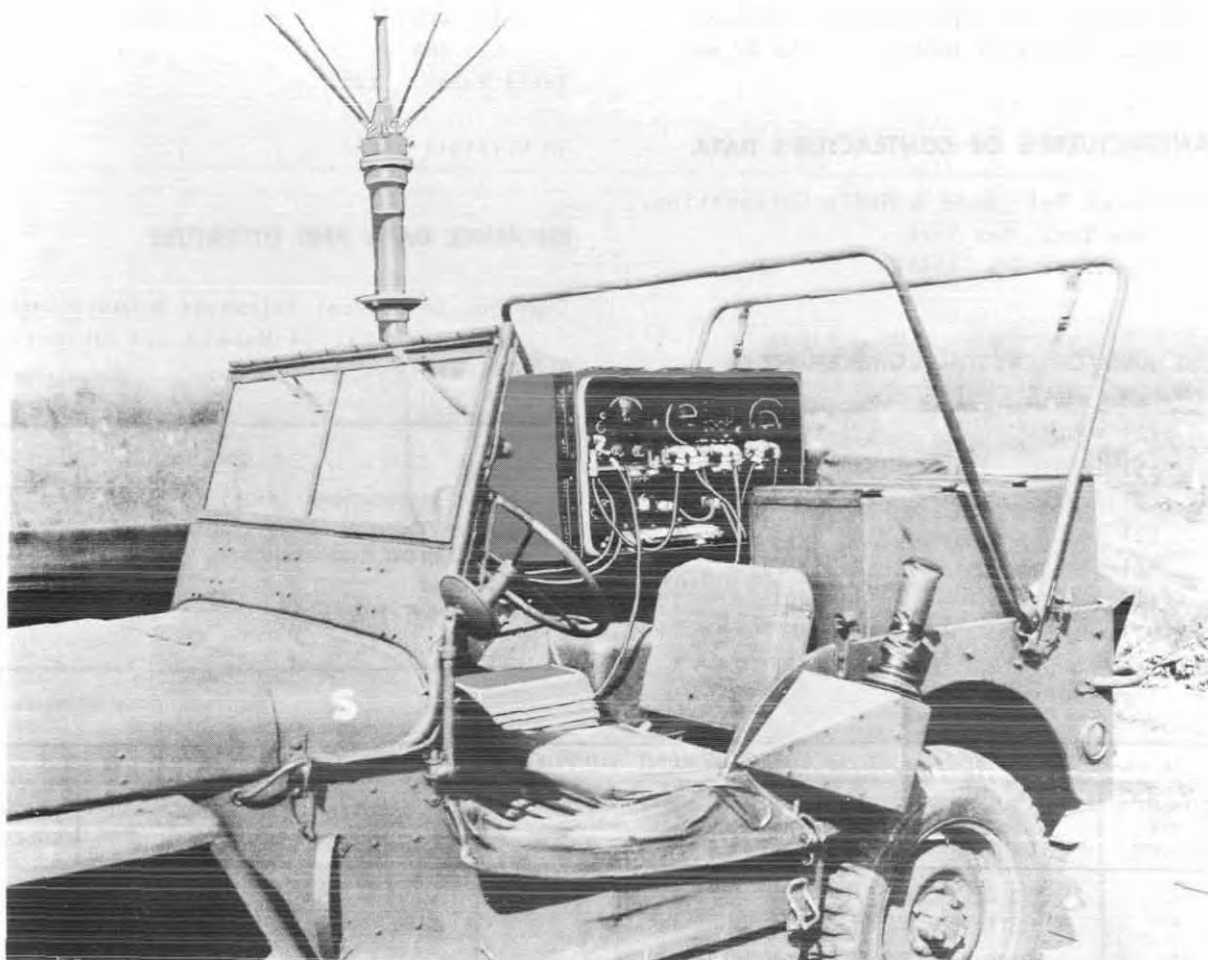


DIRECTION FINDER SET

DAX



Direction Finder Set, DAX

FUNCTIONAL DESCRIPTION

The DAX is a Radio Direction Finder covering the frequency range from 1.5 to 22 megacycles (MC), which provides instantaneous cathode ray tube indications of bearing of vertically polarized signals tuned in anywhere within the range. Provisions are also made for frequency scanning the band of frequencies extending plus and minus fifty kilocycles from the frequency to which the receiver unit of this equipment is tuned, and making instantaneously visible on the face of the cathode ray tube indicator suitable patterns which indicate the presence of signals existing within this scanned band.

The DAX is designed for vehicular service where ruggedness, lightweight, ease of in-

stallation and performance under conditions of wide variations in temperature and humidity are important considerations. It is designed to operate from a 12 volt direct current (DC) source.

No field changes in effect at time of preparation (14 April 1960).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF EMISSION RECEIVED: F3 type.
NUMBER OF BANDS: 3 bands.
NUMBER OF CHANNELS: 1 channel.
AUDIO OUTPUT: 50 mw into 600 ohms impedance.
SCANNED BAND WIDTH: 100 kc.
AMBIENT TEMPERATURE RANGE: -40° C to $+65^{\circ}$ C.
POWER CONSUMPTION: Approx 150 W max.

October 1960

DAX**DIRECTION FINDER SET**

POWER SOURCE: 12 v DC (2-6 v batteries).
 OPERATING FREQUENCY RANGE: 1.5 to 22 mc.

(1) 2D21

(1) 6J6

(1) 6H4

Total Tubes: (26)

MANUFACTURER'S OR CONTRACTOR'S DATA

No Crystals used.

Federal Telephone & Radio Corporation,
 New York, New York.
 Contract NXsr-45457.

REFERENCE DATA AND LITERATURE

Copy No. 16 Federal Telephone & Radio Corporation Technical Manual for Direction Finder Equipment DAX.

TUBE AND/OR CRYSTAL COMPLEMENT

(3) 12SH7	(2) 12SA7
(5) 12SJ7	(1) 12H6
(1) 12SR7	(2) 0D3/VR150
(1) 12SG7	(1) 8016
(1) 3GP1	(2) 6X5GT/G
(1) 12SH7	(1) 9001
(1) 6AQ6	(1) 6AG7

TYPE CLASSIFICATION (NAVY)
 DESIGN COGNIZANCE NAVY BUSHIPS
 PROCUREMENT COGNIZANCE
 STOCK NO.
 R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Radio Direction Finder DAX Including:		
1	Collector System FT & RL No. NUS-189		
1	Receiver FT & RL No. NUS-192		
1	Indicator Power Supply FT & RL No. NUS-193		
1	Goniometer Motor Distributor FT & RL No. NUS-190		
1	Submersion Proof Container FT & RL No. NUS-197		
1	R. F. Transmission Line and Power Cables FT & RL No. NUS-191		
1	Target Transmitter FT & RL No. NRT-40		
1	Set of Equipment Spares FT & RL No. NUS-194		