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UNCLASSIFIED DAG to DAG-2

DAG, DAG-1, AND DAG-2 RADIO DIRECTION-FINDING EQUIPMENTS

Use.-Portable-field.

Frequency range.—Three bands: 1.6-18.2 mc.

Bearing indications.-Aural null.

Signal reception .- CW, MCW.

Antenna collector system.-Plug-in rotatable plain loop and plug-in sense antenna.

Power-Supply required-Any reasonably pure D. C. of 90 volts at 15 ma., 1.5 volts at 450 ma., and 7.5 volts of "C" bias supply.

Supply provided-Self-contained batteries, type CBR-19045 "A" and "B" packs and one type CBR-19011 "C" battery. An optional power supply utilizing a vibrator power pack and storage cell, to be contained in the regular battery compartment, is under procurement. Provision has been made to charge the storage cell from either 6 volts D. C. or 110 volts A. C.

Battery life-Approximately 2 weeks when subjected to intermittent use with a net operating time of 8 hours

Description.-The Models DAG, DAG-1, and DAG-2 are identical high frequency portable direction finders suitable for taking bearings on, or locating radio transmitters of unknown location, or inversely, may be used to determine the location of the direction finder with respect to transmitters, by triangulation. As a communications receiver it may be used for the reception of both CW and amplitude modulated signals.

The equipment, with accessories necessary for operation, is enclosed in an aluminum alloy carrying case with a hinged front cover. Openings, protected by chained caps when not in use, are provided on the top of the case for connection of the plug-in loop and sense antenna. For stowage the antennas are contained on the interior of the cover by means of spring clips. The receiver, constructed on an aluminum alloy chassis, occupies the entire upper section of the case, is secured by means of thumbscrews, and is removable for servicing purposes. The battery power supply is located in the lower left section of the case and is accessible by removal of a panel held in place by thumbscrews. An accessory compartment is provided in the lower right section to contain the phones, magnetic compass, and ground wire with stake. A clip is provided on the loop antenna for mounting the (CXD-10210) compass. The only external connection required is to the ground post located on the front panel.

TECHNICAL FEATURES Tube complement

The second secon				
Function	Number of tubes	Туре		
Amplifier Mixer Oscillator First I. F. amplifier Second I. F. amplifier Becond detector Audio power amplifier B. F. O.	1 1 1 1 1 1 1	1T4 1R5 1T4 1T4 1R5 1R5 1S4		
Total	8			

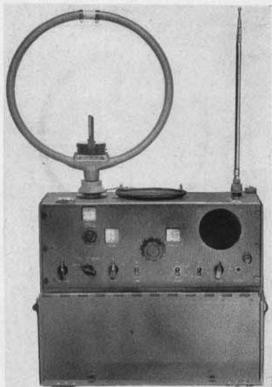
Frequency bands:

Band (1): 1.6-3.6 me. Band (2): 3.6-8.1 mc. Band (3): 8.1-18.2 me.

Type of receiver circuit.—Superheterodyne. Receiver intermediate frequency.-465 kc.

Audio power output.-6 mw (into self-contained permanent magnet dynamic speaker or 600 ohm

Operating control.-Local.



Model DAG-1 portable radio direction-finding equipment.

Dimensions and weights of equipment units included in contract

Height	Width	Depth	Weight		
Inches 1334	Inches 1634	Inches 734	Pounds 32		
2634 6934			32 32		
1434			0.2		
5794	34 maximum		0.2		
15	1134	outside	0.6		
6	9	12	22		
	Inches 1334 2634 6934 1434 5794 15	Inches 1834 1854 2634 1654 6994 1652 1632 1454 36 ma diam 5794 36 m 15 1136 diam diam diam diam diam diam diam diam	Inches 1834 Inches 1834 734 734 734 734 734 734 734 734 734 7		

Accessories not supplied by contractor .- Headphones (600 ohms impedance).

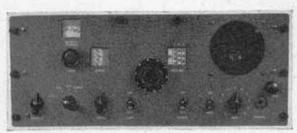
DAG to DAG-2

Type numbers of units of the DAG equipment:

Ini		Type No.
	Receiver in carrying case	CIA-46174.
	Sense antenna	CRF-66054.
	Loop antenna	CIA-69077.
	A and B battery packs	CBR-19045.
	C battery	CBR-19011.

Shipping weights and dimensions

Contents	Size	Gross weight	Volume
Complete equipment and spare parts box	Inchés	Pounds	Cubic feet
	13% x 18% x 31% s	100	4. 2



Receiver panel for the Model DAG-1 portable direction-finding equipment,

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