

RADIO DIRECTION FINDER

DAY



Day Radio Direction Finder

FUNCTIONAL DESCRIPTION

The DAY is designed as a high frequency vehicular Radio Direction Finder, which provides instantaneous visual indications of the bearings of received signals in the frequency range of 20 to 100 megacycles (MC) through the use of a scanner, a cathode-ray tube and a motor driven loop. The indications are automatic with simultaneous monitoring of the received Interrupted Continuous Wave (ICW) and keyed reception. The scanner permits the operation to see a bandwidth of 500 kilocycles (KC) on either side of the frequency to which the receiver is tuned.

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

RELATION TO OTHER EQUIPMENT

The DAY is similar in operation to the DAX but differs in the frequency coverage and tube complement.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF EMISSION RECEIVED: CW, MCW, ICW and FM.

BEARING INDICATIONS: Instantaneous automatic visual.

TYPE OF RECEIVER: Superheterodyne.

NUMBER OF BANDS: 2 bands.

CURRENT RATING: 7 amps.

RECEIVER INTERMEDIATE FREQUENCY: 4.0 mc.

FREQUENCY RANGE: 20 to 100 mc.

POWER SOURCE: 12 v DC (2-6 v batteries).

MANUFACTURER'S OR CONTRACTOR'S DATA

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

TUBE AND/OR CRYSTAL COMPLEMENT

(3) 6AK5

(1) 6AS6

Radio-Transcievers

DAY

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REFERENCE DATA AND LITERATURE

NAVSHIPS 95082: Technical Manual for High Frequency Radio Direction Finder Equipment DAY.

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

- | | |
|-----------|---------------|
| (1) 6C4 | (1) VR-150-30 |
| (1) 12SA7 | (1) 6AQ6 |
| (1) 6J6 | (1) 6AG7 |
| (1) 2021 | (1) OB2 |
| (1) 8016 | (1) 3GP1 |
| (2) 6X5GT | (1) 12SH7 |
| (1) 3A5 | (1) 9006 |
| (6) 9001 | |

Total Tubes: (25)

No Crystals Used.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Radio Direction Finder DAY Including:		
1	Scanner FT & RL No. NUS-203	5 X 14 X 78	10
1	Radio Receiver Ass'y FT & RL No. NUS-1068	10 X 14 X 78	12
1	Loop & Sense Antenna Ass'y FT & RL No. NUS-200	5-1/8 X 11-1/4 X 25-1/2	12-1/2
1	Rectifier Power Unit FT & RL No. NUS-192	8 X 10 X 14	20
1	Set of Interconnecting Cables FT & RL No. NUS-202		
1	Set of Special Tools and Maintenance Equipment FT & RL No. NUS-204		
1	Target Transmitter FT & RL No. NRT-41	6-1/2 X 6-1/2 X 8	7-1/2