THIS SHEET IS CLASSIFIED: RESTRICTED

*AN/ARN-7

NOMENCLATURE DESIGNATION

NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.

STATUS: *ARMY-NAVY-BRITISH STANDARD BY J.A.C. CASE #205.

INSTRUCTIONAL LITERATURE:

PART A – TECHNICAL CHARACTERISTICS
(CLASSIFICATION: RESTRICTED)

FREQUENCY RANGE: (Mc) 0.1 - 1.75

NUMBER OF CRYSTALS: NONE

PRESET FREQUENCIES: NONE

ANTENNA: LOOP AND SENSE ANTENNA

TUNING: (MC OR XTAL) REMOTE MANUAL

SENSITIVITY: 40 MV./METER

SELECTIVITY: 10 TIMES RESONANT INPUT FOR 6.3KC BANDWIDTH.

POWER SOURCE: 110 V. 400 CYCLES A-C

SIMILAR SETS: SCR-269 (INTERCHANGEABLE BY COMPONENTS)

POWER OUTPUT: (WATTS)

TUBES: (TYPE AND NUMBER) 2 - VT - 66, 1 VT - 94, 1 - VT - 74, 1 VT - 96, 4 - VT - 86, 1 VT -105, 1 - VT - 87, 2 VT -109, 2 - VT - 93

PART B - TACTICAL CHARACTERISTICS
(CLASSIFICATION: RESTRICTED)

USE: AIRBORN AUTOMATIC DIRECTION-FINDER. GIVES AUTOMATIC BEARING INDICATION OF THE DIRECTION OF ARRIVAL OF RADIO FREQUENCY ENERGY. ALSO AURAL RECEPTION OF CW, MCW, OR VOICE ON LOOP OR ANTENNA.

RANGE: ACCURATE BEARINGS TO ABOUT 100 MILES DAYTIME. SUBJECT TO NIGHT EFFECT ERRORS.

TO COMMUNICATE WITH:

TO REPLACE IN PART: SCR-269

TRANSPORTATION: AIRBORNE

TYPE OF SIGNAL: CW, MCW, VOICE

RADIO COMPASS UNIT *R-5/ARN-7 PART OF DEVELOPMENTAL MODEL OF RADIO COMPASS *AN/ARN-7

PART C – PRINCIPAL COMPONENTS
(CLASSIFICATION: RESTRICTED)

ITEM	DIMENSIONS HEIGHT	WIDTH	DEPTH	WEIGHT	CLASSIFICATION
1 RADIO COMPASS UNIT	7 7/8"	12"	19 13/16"		RESTRICTED
2 RADIO CONTROL BOX	7 1/2"	7 1/2"	3 15/16"	3.76#	RESTRICTED
1 LOOP LP-21	25 3/8"	14 31/32"	9"	10.37#	UNCLASSIFIED
1 INDICATOR I-81	3 1/4"	3 1/4"	3 11/16"	.75#	UNCLASSIFIED
1 INDICATOR I-82	5 1/8"	5 1/8"	4 3/32"	1.19#	UNCLASSIFIED
1 RELAY BK-22	11 3/4"	7"	3"	6.40#	UNCLASSIFIED
COMBINED WEIGHT OF COMPONENTS:				75 LBS.	
COMBINED VOLUME OF COMPONENTS:				5121 CU.	IN.
SHIP TONNAGE:				0.0296T	

FRONT PANEL VIEW OF RADIO CONTROL BOX *C-4/ARN-7 PART OF DEVELOPMENTAL MODEL OF RADIO COMPASS *AN/ARN-7

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