NAVSHIPS 0967-872-5010
TM 03816-B12/1
TM 11-5820-510-12-1

INSTALLATION AND OPERATION TECHNICAL MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

RADIO SET AN/PRC-41A

(FSN 5820-104-0351)

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DEPARTMENT OF THE NAVY
NAVAL ELECTRONIC SYSTEMS COMMAND

NAVSHIPS 0967-872-5010
TM-03816B-12/1
TM11-5820-510-12-1

(*Non Registered*)

INSTALLATION AND OPERATION

TECHNICAL MANUAL

FOR

RADIO SET AN/PRC-41A

DEPARTMENT OF THE NAVY
NAVAL ELECTRONIC SYSTEMS COMMAND

Published: 1 September 1969

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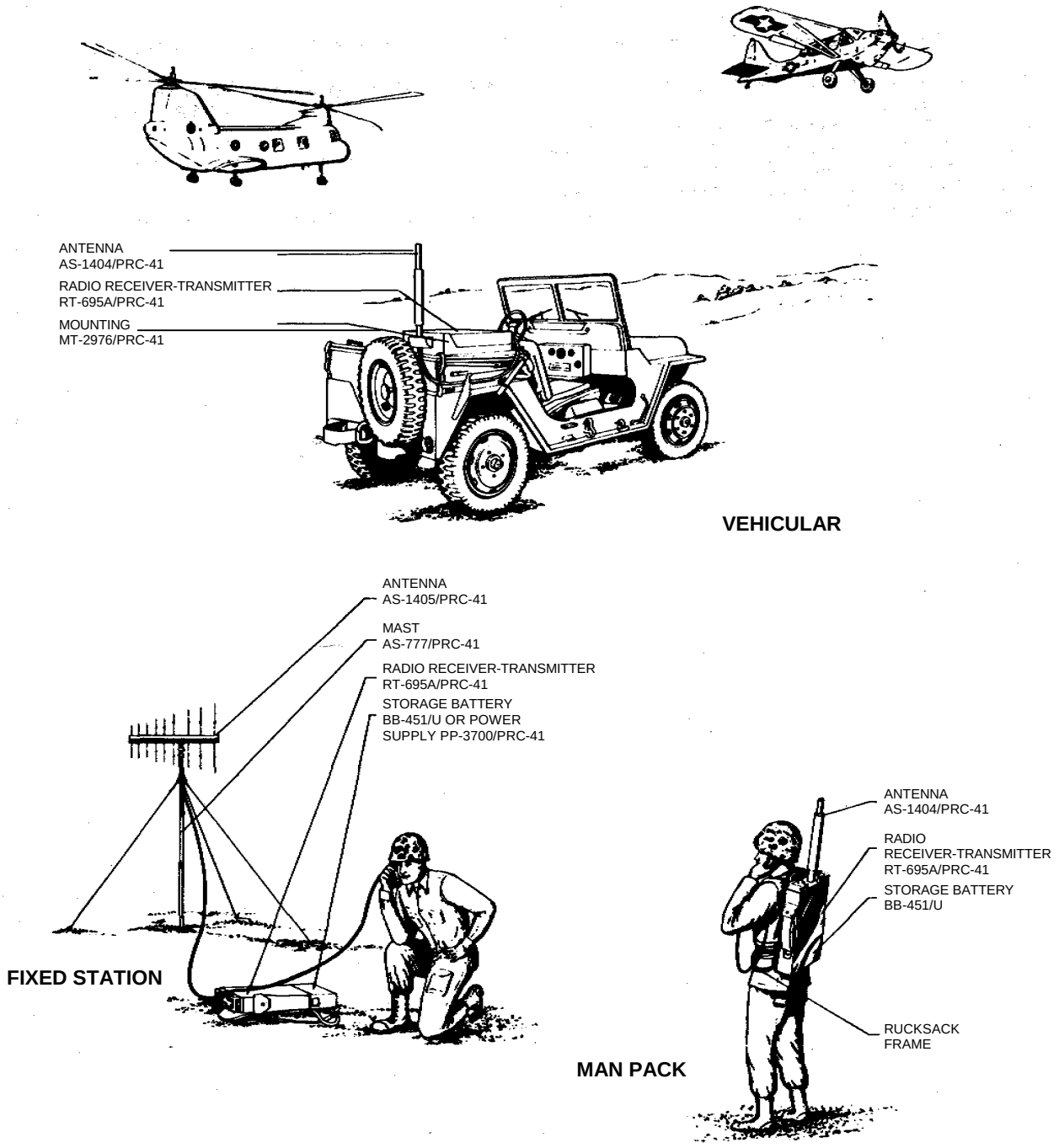

Figure 1-1. Radio Set AN/PRC-41A, Operating Configurations

SECTION 1

GENERAL INFORMATION

1-1. SCOPE

Information applicable to Radio Set AN/PRC-41A is contained in the Installation and Operation Technical Manual for Radio Set AN/PRC-41A and the Repair and Maintenance Technical Manual for Radio Set AN/ PRC-41A. The format and content of these manuals is in accordance with the requirements of Military Specification MIL-M-15071F (SHIPS) and Contract N00039-69-C-3511. The installation and Operation Technical Manual includes sections 1, 2, and 3. The Repair and Maintenance Technical Manual for Radio Set AN/PRC-41A, NavShips 0967-872-5020, includes sections 1, 4, 5, and 6. These manuals are applicable to the items and accessories of Radio Set AN/PRC-41A. Section 1 contains a general description, provides reference data, lists the applicable items and accessories, and provides information required for the preparation for reshipment of the Radio Set AN/PRC-41A equipment. Section 2 provides installation information such as unpacking, power requirements for operation, site selection, inspection and adjustment, and interference reduction. Section 3 contains operating instructions. Section 4 provides a theoretical description and test data of the functional sections and subordinate circuits of the equipment. Section 5 provides preventive maintenance instructions, repair information, and illustrations that are applicable to all sections such as part location, exploded views, connection diagrams, and overall equipment schematics. Section 6 lists the detail parts of the items and accessories of Radio Set AN/PRC-41. These technical manuals are in effect upon receipt. Extracts from these publications may be made to facilitate the preparation of other Department of Defense publications.

1-2. EQUIPMENT SUPPLIED.

Radio Set AN/PRC-41 consists of the equipment contained in Radio Set Case CY-3883/PRC-41. Refer to table 1-1 and figure 1-2. Radio Set Accessory Kit MK-706/PRC-41 consists of the equipment contained in Electronic Equipment Case CY-3885/PRC-41. Refer to table 1-2 and figures 1-1 and 1-3.

TABLE 1-1. RADIO SET AN/PRC-41A, EQUIPMENT SUPPLIED

ITEM	QTY	NOMENCLATURE		OVERALL DIMENSIONS (in)			VOL (in^3)	WT (lb)
		NAME	DESIGNATION	H	W	D		
1	1	Radio set case (less contents)	CY-3883/PRC-41	15-1/2	35	26-1/2	14,376	79
2	1	Radio receiver-transmitter (without case CY-3884/ PRC-41)	RT-695A/PRC-41	14	11-5/16	4-9/16	812	18.5
3	1	Receiver-transmitter case	CY-3884/PRC-41	12-5/8	11-3/16	4-15/32	635	3.6
4	3	Storage battery	BB-451/U	7-11/16	11-9/16	4-9/64	402	16
5	1	Antenna	AS-1404/PRC-41	23-1/2	1-3/4 dia			0.7

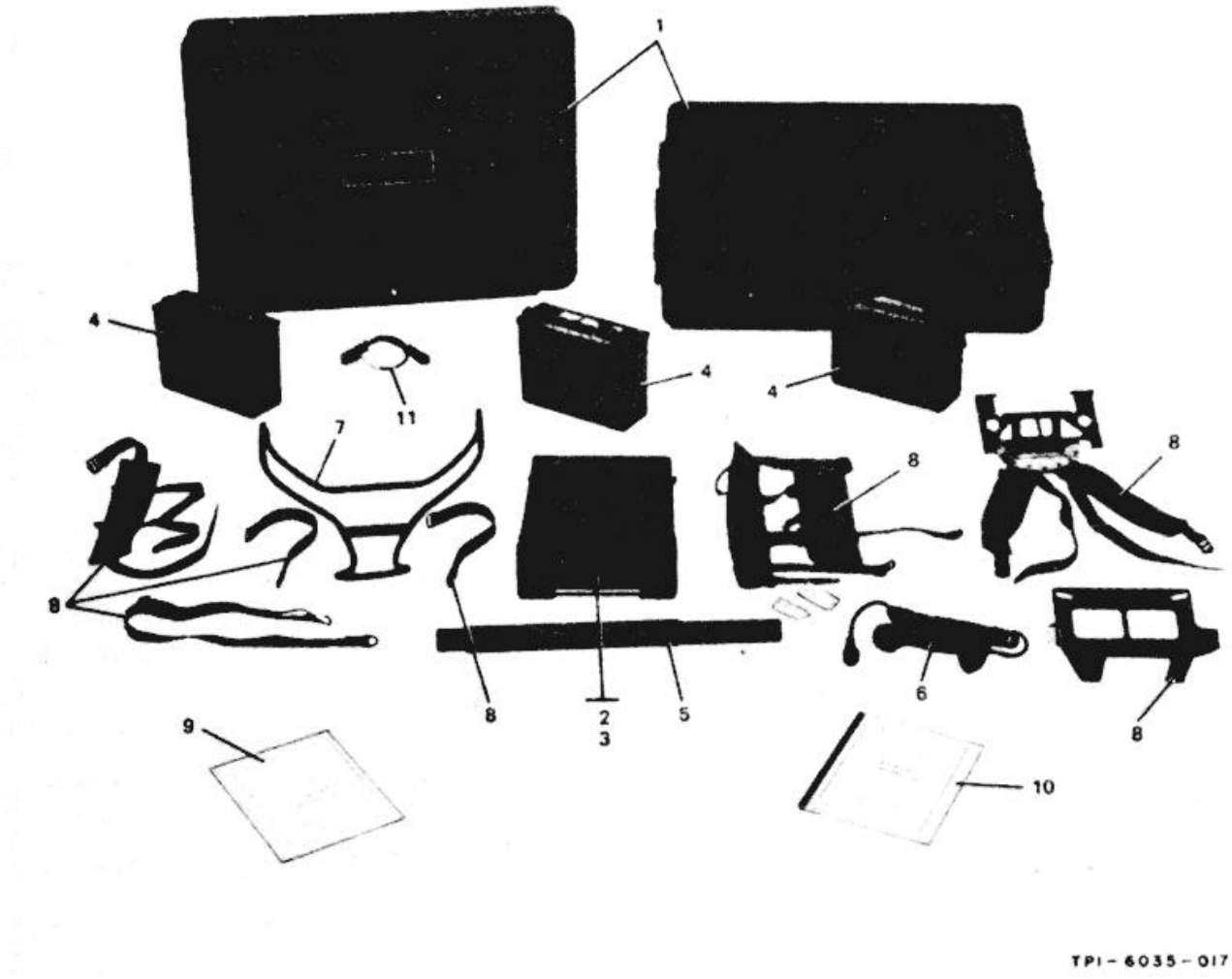

Figure 1-2. Radio Set AN/PRC-41A, Equipment Contents of Radio Set Case CY-3883/PRC-41