
TECHNICAL MANUAL

**OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL
TRANSMITTING SET, RADAR DATA
AN/AKT-18B
(NSN 5841-01-070-4408)**

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(NSN 5841-01-070-4408)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help Improve this manual If you find any mistakes or if you know of a way to improve the procedures, please let us know Mail Your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to Commander, US Army Communications - Electronics Command and Fort Monmouth, ATTN DRSEL-ME-MP, Fort Monmouth, New Jersey 07703

in either case, a reply will be furnished direct to you.

TABLE OF CONTENTS

			Paragraph	Page
CHAPTER	1.	INTRODUCTION		
Section	I.	General information		
		Scope	1-1	1-1
		Consolidated index of Army publications and blank forms	1-2	1-1
		Maintenance forms, records, and reports	1-3	1-1
		Destruction of Army material to prevent enemy use	1-4	1-1
		Reporting equipment improvement recommendations (EIR)	1-5	1-1
		Administrative storage	1-6	1-1
		Hand receipt	1-7	1-1
	II.	Equipment description and data		
		Purpose and use	1-8	1-1
		Overall description of system	1-9	1-2
		Description of encoder.....	1-10	1-2
		Description of encoder mount.....	1-11	1-4
		Description of data link control	1-12	1-5
		Description of uhf radio set.....	1-13	1-6
		Description of uhf antenna.....	1-14	1-9
		Tabulated data.....	1-15	1-10
CHAPTER	2.	OPERATING INSTRUCTIONS		
Section	I.	Operator's controls and Instruments		
		Damage from Improper settings	2-1	2-1
		Operator's controls and Indicators	2-2	2-1
	II.	Operation under usual conditions		
		Preliminary starting procedure.....	2-3	2-3
		Initial checks and adjustments	2-4	2-3
		Operating procedure.....	2-5	2-4
		Standby operation	2-6	2-4
		Shutdown procedure	2-7	2-4
	III.	Operation under unusual conditions		
		Operation under extreme environmental conditions	2-8	2-4
		Operation under emergency conditions.....	2-9	2-4
		Operation through electronic countermeasures	2-10	2-5
CHAPTER	3.	MAINTENANCE		
Section	I.	Operator/crew maintenance Instructions		
		Tools and equipment required for operator/crew maintenance	3-1	3-1
		Operator/crew lubrication Instructions	3-2	3-1
		Operator/crew preventive checks and services	3-3	3-1
		Operator/crew troubleshooting	3-4	3-1
		Operator/crew maintenance	3-5	3-1

		Paragraph	Page
Section	II.	Organizational maintenance instructions	
		Tools, equipment and materials required for organizational maintenance	3-6 3-1
		Organizational lubrication instructions	3-7 3-1
		Organizational repainting and refinishing instructions	3-8 3-1
		Organizational preventive maintenance checks and services	3-9 3-1
		Access hatch door opening and closing procedures	3-10 3-2
		Organizational troubleshooting Instructions	3-11 3-4
		Organizational maintenance of data transmitting set	3-12 3-5
		Testing after repair	3-13 3-7
APPENDIX	A.	REFERENCES	A-1
	B.	COMPONENTS OF END ITEM LIST	
Section	I.	Introduction.....	B-1
	II.	Integral Components of End Item	B-2
	III.	Basic Issue Items	B-3
APPENDIX	C.	ADDITIONAL AUTHORIZATION LIST (Not applicable)	
	D.	MAINTENANCE ALLOCATION	
Section	I.	Introduction.....	D-1
	II.	Maintenance Allocation Chart for Transmitting Set, Radar Data AN/AKT-18B	D-3
	III.	Tools and Test Equipment for Transmitting Set, Radar Data AN/AKT-18B	D-5
	IV.	Remarks	D-6
APPENDIX	E.	EXPENDABLE SUPPLIES AND MATERIALS LIST	
Section	I.	Introduction.....	E-1
	II.	Expendable Supplies and Materials List.....	E-2

LIST OF ILLUSTRATIONS

Figure	Title	Page
1-1	Transmitting Set, Radar Data A N/AKT-18B (data transmitting set)	1-0
1-2	Location of major components in aircraft	1-2
1-3	Data transmitting set block diagram	1-3
1-4	Encoder, Video KY-865/AKT-18B (encoder)	1-4
1-5	Mounting Base, Electrical Equipment MT-6016/AKT-18B (encoder mount)	1-5
1-6	Control, Data Link C-10546/AKT-18B (data link control)	1-6
1-7	Receiver-Transmitter Radio RT-1288A/ARC-164(V)(uhf receiver-transmitter)	1-7
1-8	Mounting Base, Electrical Equipment MT-6017/ARC-164(V) (uhf radio mount)	1-8
1-9	Control, Radio Set C-10547/ARC-164(V) (uhf radio control)	1-9
1-10	Antenna AT-450/ARC (uhf antenna).....	1-10
2-1	Data link control controls and Indicators	2-1
2-2	Uhf radio control controls and indicators	2-2
3-1	Equipment access hatches	3-3
3-2	Data transmitting set cabling diagram	3-4

LIST OF TABLES

Table	Title	Page
1-1	Common Names.....	1-2
2-1	Data Link Control Controls and Indicators	2-1
2-2	Uhf Radio Control Controls and Indicators	2-2
2-3	Preliminary Control Settings	2-3
3-1	Operator/Crew Preventive Maintenance Checks and Services	3-1
3-2	Organizational Preventive Maintenance Checks and Services	3-2
3-3	Organizational Troubleshooting.....	3-4



Figure 1-1. Transmitting Set, Radar Data AN/AKT-18B (data transmitting set).

CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION

1-1. Scope

This manual describes Transmitting Set, Radar Data AN/AKT-18B (fig 1-1), explains operation of the equipment, and provides operator and organizational maintenance instructions. It also describes basic functioning of the data transmitting set, operation under usual and unusual conditions, and cleaning and inspection. The appendix portion of this manual contains applicable technical manual references, basic Issue information, and additional maintenance information.

1-2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions changes or additional publications pertaining to the equipment.

1-3. Maintenance Forms, Records, and Reports.

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

b. Report of Packaging and Handling Deficiencies. Fill out and forward 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/ DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and for Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610. 33B/AFR 75-18/MCO P4610.19C/DLAR 4500. 15.

1-4. Destruction of Army Materiel to Prevent Enemy Use

Destruction of Army electronic materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-5. Reporting Equipment Improvement Recommendations(EIR)

If your equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one ho can tell us what you don't like about our equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL--NE-MP, Fort Monmouth, New Jersey 07703. We'll send you a reply.

1-6. Administrative Storage

Before storing the equipment, verify its operational status by performing the Organizational Preventive Maintenance Checks and Services, (chapter 3). If defects are noted in the equipment, make repairs or refer it to higher category maintenance in accordance with the Maintenance Allocation Chart (Appx D).

1-7. Hand Receipt

This manual has a companion document with a TM number followed "-HR" (stands for Hand Receipt). The TM 11-5841-287-10-HR consists of preprinted hand receipts (DA Form 2062) that list end Item related equipment (i.e. COEI, BII, and AAL) you must account for. As an aid to property accountability additional -HR manuals may be requisitioned from The Army Adjutant General Publications Center, Baltimore MD in accordance with the procedures in Chapter 3 AR 310-2, and DA Pam 310-10-2.

SECTION II. EQUIPMENT DESCRIPTION AND DATA

1-8. Purpose and Use

Transmitting Set, Radar Data AN/AKT-18B (data transmitting set) is an airborne system which accumulates radar video data and navigational data, encodes the data into a serial digital bit stream, and transmits it to Receiving Set, Radar Data AN/TKQ-2B (data receiving set). Video and navigational information to be transmitted is derived from Radar Surveillance Set AN/APS-94F (radar set). The radar set and data

transmitting and receiving sets are components of Radar Surveillance System AN/-UPD-7 (system). This system permits fixed target and moving target radar imagery from the airborne radar set to be recorded in real time by ground receiving sets for immediate use by field commanders. A typical installation of the data transmitting set is shown in figure 1-2.