TM 11-5985-263-15

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,

GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL

INCLUDING REPAIR PARTS

AND SPECIAL TOOL LISTS

MAST AB-903/G

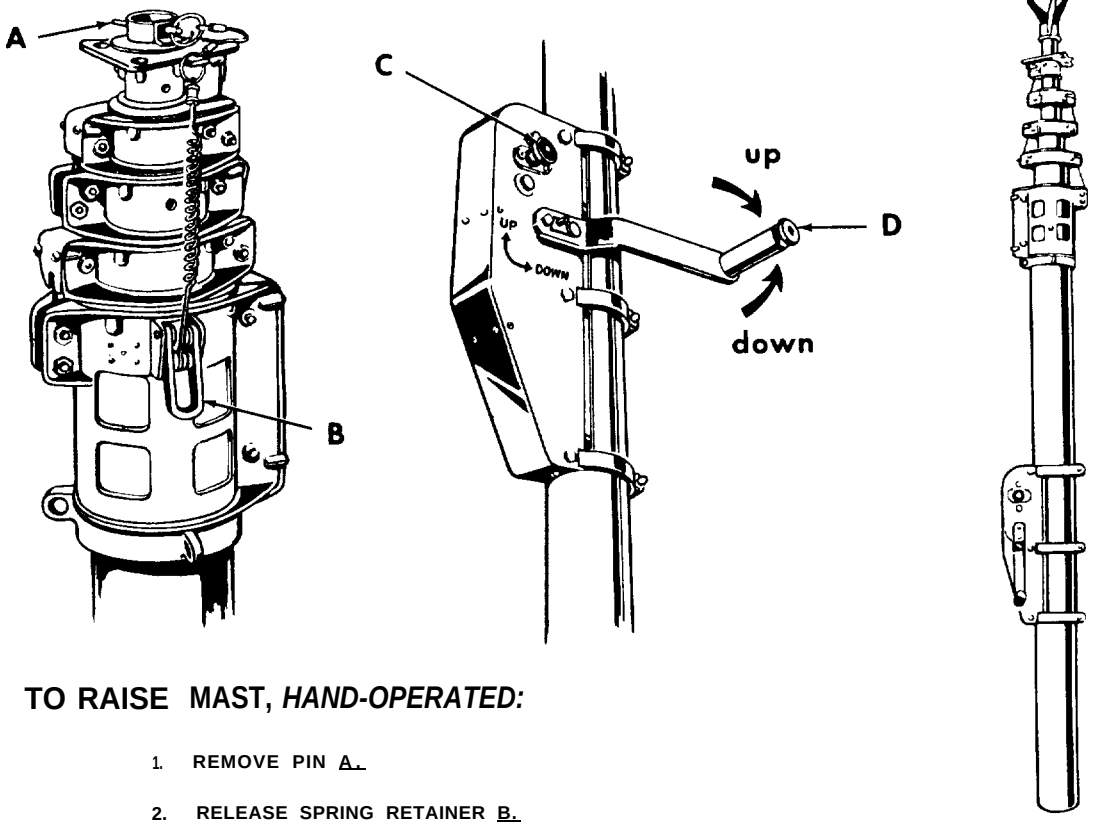
(NSN 5985-00-933-2197)

This copy is a reprint which includes current pages from Changes 1 and 2. The title was changed by Change 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY

MAY 1970

CONDENSED OPERATING INSTRUCTIONS FOR ANTENNA MAST AB-903/G



TO RAISE MAST, *HAND-OPERATED:*

1. REMOVE PIN A.
2. RELEASE SPRING RETAINER B.
3. EXTRACT LOCKING PIN C AND ROTATE 90° TO LOCK-OUT POSITION.
4. CRANK HANDLE D IN DIRECTION SHOWN.

   CAUTION: DO NOT RAISE MAST TO FULL HEIGHT IF WINDS ARE IN EXCESS OF 35 MPH OR MAST IS OUT OF VERTICAL POSITION BY MORE THAN 7°.

5. CRANK APPROXIMATELY 54 TURNS TO FULL UP POSITION.
6. LOCK THE MAST IN UP POSITION WITH LOCKING PIN C.

TO LOWER MAST, *HAND-OPERATED:*

7. EXTRACT LOCKING PIN C AND ROTATE 90° TO LOCK-OUT POSITION.
8. CRANK HANDLE D IN DIRECTION SHOWN.
9. CRANK UNTIL DESIRED POSITION IS REACHED.
10. ENGAGE LOCKING PIN C.

EL5985–263-12-TM-11 ①

Condensed operating instructions for Antenna Mast AB–903/G.

TECHNICAL MANUAL
No. 11-5985-263-15

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *20 May 1970*

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL
MAST AB-903/G (NSN 5985-00-933-2197)

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***This manual supersedes TM 11-5985-263-12, 14 August 1967**

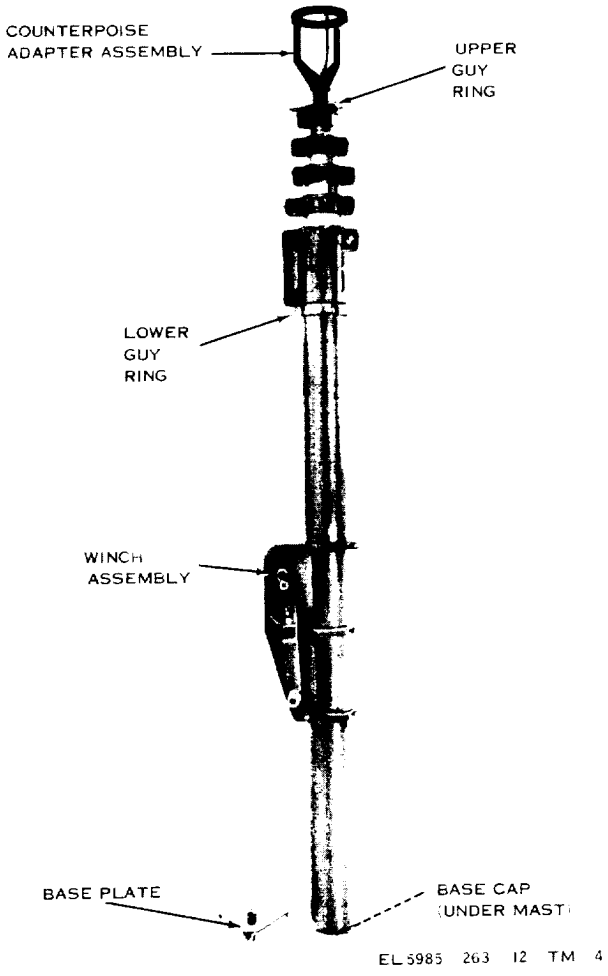

Figure 1-1. Mast AB-903/G, less ground-mounting components.

CHAPTER 1
INTRODUCTION

Section 1. GENERAL

1-1. Scope

a. This manual describes Mast AB-903/G (fig. 1-1) and covers its installation, operation, direct and general support, and depot maintenance.

b. The basic issue items list appears in appendix B, the maintenance allocation chart appears in appendix C, and the repair parts and special tool lists appear in TM 11-5985-263-34P.

NOTE

Appendix C is current as of June 15 1978.
Appendix B is current as of 5 May 1973.

1-2. Indexes of Publications

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. Reports of Maintenance arid Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030-29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

1-3.1. Reporting of Errors

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

EIR's will be prepared using Standard Form 368, Quality Deficiency Report. Insturctions for preparing EIR's are provided in TM 38-750, the Army Maintenance Management System, EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. Mast AB-903/G provides the means to raise such antennas as Antenna AS-1729/VRC 30 feet above ground level. The retracted height of the mast is 72 inches. The mast may be set up on the ground, or mounted on vehicles. The mast maybe raised to full height by handcranking.

b. Figure 1-1 illustrates the general arrangement of the mast on the ground.

1-5. Technical Characteristics

Height retracted	6 feet.
Height extended	29 feet, 3 inches.
Method of extending mast	Cable-driven telescope tubular sections activated by crank handle.
Time required to raise mast (after installation of group).	25 seconds by hand.
Tube sizes	4 1/4-inch diameter to 1 1/2-inch diameter.
Number of tubular segments.	6.
Installation provisions	Ground or vehicular.
Number of guys	6 for ground installation.
Number of stakes	3.
Material	Aluminum alloy tubing, corrosion-resistant cables and hardware, aluminum alloy mounting brackets, Dacron guy ropes.
Weight:	
Mast	40 pounds.
Mounting brackets, guys, anchors.	14.75 pounds.
Maximum wind loading	35 mph without top guys; 50 mph with top guys.
Load limitation	20 lb masthead load over area of 2 square feet (Maximum allowable load on extended mast).