

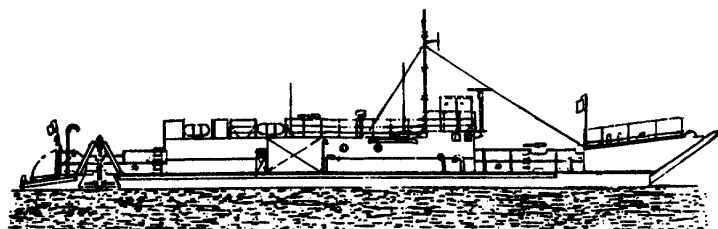
TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL,
DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL**

**LANDING CRAFT UTILITY
LCU 1671-1679
(1905-01-009-1056)**

EQUIPMENT DESCRIPTION

**TECHNICAL PRINCIPLES
DESCRIPTION**



**DESCRIPTION AND USE OF
OPERATORS CONTROLS
AND INDICATORS
DESCRIPTION**

**This copy is a reprint which includes current
pages from Changes 1 and 2.**

**PREVENTIVE MAINTENANCE
CHECKS AND SERVICES**

HEADQUARTERS, DEPARTMENT OF THE ARMY

1 JUNE 1983

TECHNICAL MANUAL

NO. 55-1905-220-14-1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 1 June 1983

Operator's, Organizational, Direct
Support, And General Support
Maintenance Manual

LANDING CRAFT UTILITY
LCU 1671 - 1679
NSN 1905-01-009-1056

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 these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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* This manual supersedes TM 55-1905-220-14-1, dated 3 July 1980.

Change 4 i

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CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

- a. This manual covers Landing Craft Utility, LCU 1671-1679 manufactured by Marinette Marine Corporation, Marinette, Wisconsin 54143. See Figure FO-1 for an overall view of the landing craft.
- b. This manual contains operating and maintenance instructions for the crew. Also included is Direct Support Maintenance Instructions.
- c. This manual consists of ten volumes containing five chapters. Refer to the Table of Contents in this volume for an overall outline of the various volumes and their contents. Each section within a chapter will have a table of contents indicating the page on which a particular paragraph begins.

1-2. MAINTENANCE FORMS, RECORDS AND REPORTS.

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

1-3. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

Procedures for destroying Army materiel to prevent enemy use are listed in TM 750-244-3.

1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

If your Landing Craft needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-D-WTT, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798.

1-5. NOMENCLATURE CROSS REFERENCE.

For nomenclature used in Army watercraft, refer to the following:

- a. TM 55-501 Marine Crewman's Handbook
- b. TM 55-509 Marine Engineman's Handbook

1-6. LIST OF ABBREVIATIONS.

ABV.BL	Above base line (lowest part of keel)
CG	Cleaning Gear
Condtn	Condition
Conn	Connector
Compt	Compartment
Distr	Distribution
D.O	Diesel Oil
Eng	Engine
Exh	Exhaust
Fdn	Foundation
FE	Fire Extinguisher
FOTBPMH	Flush Oil Tight Bolted Plate Man Hole
FP	Freeing Port (scupper)
F.P.M	Feet Per Minute
Fwd	Forward
FWTBPMH	Flush Water Tight Bolted Plate Man Hole
FWTQA	Flush Water Tight Quick Acting
FWTQAES	Flush Water Tight Hatch Quick Acting Emergency Scuttle
Gen	Generator
Gov	Governor
G.P.M	Gallons Per Minute
Htr	Heater
Hyd	Hydraulic
IC	Interior Communications
IFF	Identification Friend or Foe
Inbd	Inboard

LIST OF ABBREVIATIONS (Continued)

Ind	Indicator
Lkr	Locker
Lt	Light
Mag.....	Magazine
MG.....	Machine Gun
OBA.....	Oxygen Breathing Apparatus
Ord	Ordnance
Outbd.....	Outboard
Plths.....	Pilothouse
P/S.....	Port/Starboard
P.S.I.....	Pounds Square Inch
Pt.....	Parts
QAWTD	Quick Acting Water Tight Door
RAWTH	Raised Water Tight Hatch
Rcpt.....	Receptacle
Refr.....	Reefer (freezer)
Rm.....	Room
RMHS	Remote Magnetic Heading System
R.P.M.....	Revolutions Per Minute
R.S. Lkr (219).....	Ready Service (Ammunition)
RWTH W/QAES	Raised Water Tight Hatch With Quick Acting Emergency Scuttle
RWTMH.....	Raised Water Tight Man Hole Scuttle
Shr.....	Shower
Sld	Sliding (door)
S.P.....	Sound Powered
SR	Stateroom

LIST OF ABBREVIATIONS (Continued)

St	Stores
Stbd	Starboard
SW	Salt Water
Sys.....	System
Vent	Ventilation
VL	Vertical Ladder - W up - D down
WC	Water Closet
Wr	Wardroom
Wrb	Wardrobe
WTD	Water Tight Door
Xmfr	Transformer

1-7. HAND RECEIPT.

Hand receipts for Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) items are published in a Hand Receipt manual, TM 55-1905-220-14-HR. This manual is published to aid in property accountability and is available through: Commander, US Army Adjutant General Publication Center, 2800 Eastern Boulevard, Baltimore, MD 21220.

Section II. EQUIPMENT DESCRIPTION

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1-8. EQUIPMENT PURPOSE, CAPABILITIES, and FEATURES.

The Landing Craft is a twin screw, diesel-engine driven vessel of welded steel construction. For long voyages (trans-ocean) it will normally be carried on the deck of a ship in one piece. The craft is designed to carry cargo from ship to shore, shore to shore, ship to pontoon causeway. The landing craft may be linked, bow to stern with another craft, creating its own causeway. The landing craft upon reaching its destination can load or unload cargo over a hinged bow ramp directly from/onto a beach or pontoon causeway. Cargo may consist of either three (3) M-103A tanks, six (6) M-42 tanks, three (3) M-48 tanks, motor vehicles or artillery equipment and their operating /maintenance personnel and miscellaneous cargo. After a beach landing, the craft is designed to retract from the beach under its own power, assisted by the use of the Stern Anchor.

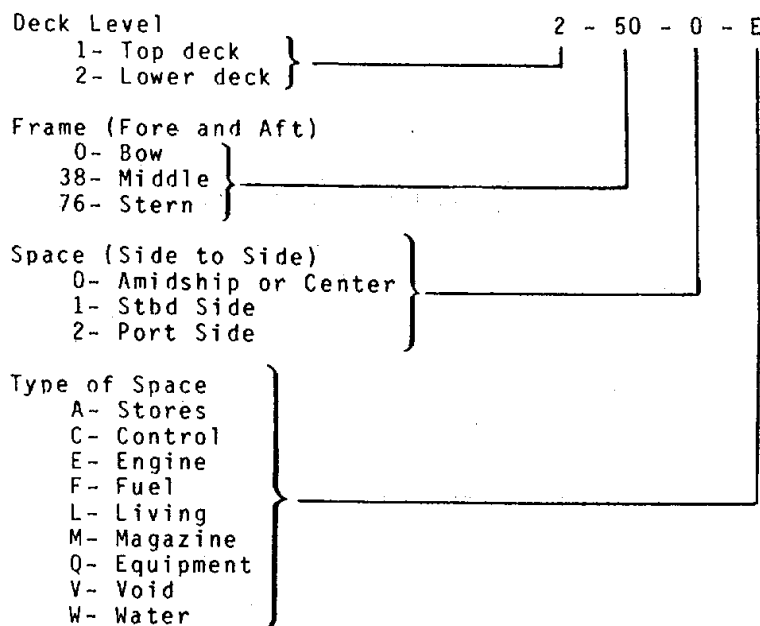
1-9. LOCATION AND DESCRIPTION of MAJOR COMPONENTS.

Refer to Paragraph 1-10 for an overall orientation of the Landing Craft. This overall familiarization is further subdivided into the specific section views contained in the subsequent paragraphs.

1-10. GENERAL FAMILIARIZATION.

a. Refer to Figure FO-2 for an overall Starboard (Stbd) view of the Landing Craft. This view shows the frame identification from the bow to the stern. The frames are located every 21 inches (53.34 cm) and the numbering begins at the bow.

b. Refer to Figure FO-3 for an inboard profile view of the Stbd side of the Landing Craft. This view shows the various compartments which are identified as follows:



The House and Vehicle Deck view is shown in Figure FO-4. Note the frame location numbers beginning at the bow and ending at the stern.

c. The below deck view of the Landing Craft is shown in Figure FO-5.

1-11. EXTERIOR ORIENTATION.

The following paragraphs locate and describe the major exterior components.

12. MOORING, TOWING, CAUSEWAY FITTINGS, AND LASHING GEAR.

The mooring, towing, causeway fittings, and lashing gear are shown in Figure FO-6.

1-13. EMERGENCY/LIFE SAVING EQUIPMENT.

The Emergency and Life Saving Equipment is shown in Figure FO-7.

1-14. MACHINE GUN, READY SERVICE LOCKERS, AND GRENADE LOCKERS.

The Machine Guns and Ready Service Lockers for machine gun ammunition and grenade lockers are shown in Figure FO-8.

1-15. RUNNING LIGHTS, PELORIS, MASTS, FLAGS, AND ENSIGN.

Figure FO-9 shows the components used to navigate the vessel. Also included are the various masts and flag and ensign staffs. Refer to Figure 1-4 for the Components on the Mast.

1-16. FIRST AID EQUIPMENT.

First Aid Equipment is located both inside and outside. Refer to Figure FO-10 for orientation.

1-17. ANCHOR "A" FRAME AND CONTROL STATION.

The "A" Frame and the Control Station for the Anchor are located on the Cargo Deck near the stern. Refer to Figure 1-5 for the major components of the "A" Frame and to Figure 1-6 for the Anchor Winch Control Station.

1-18. EMERGENCY STEERING COMPONENTS.

The components required to steer the vessel in an emergency situation are shown in Figure 1-7.

1-19. BOW RAMP.

The major components of the Bow Ramp are shown in Figure 1-8.

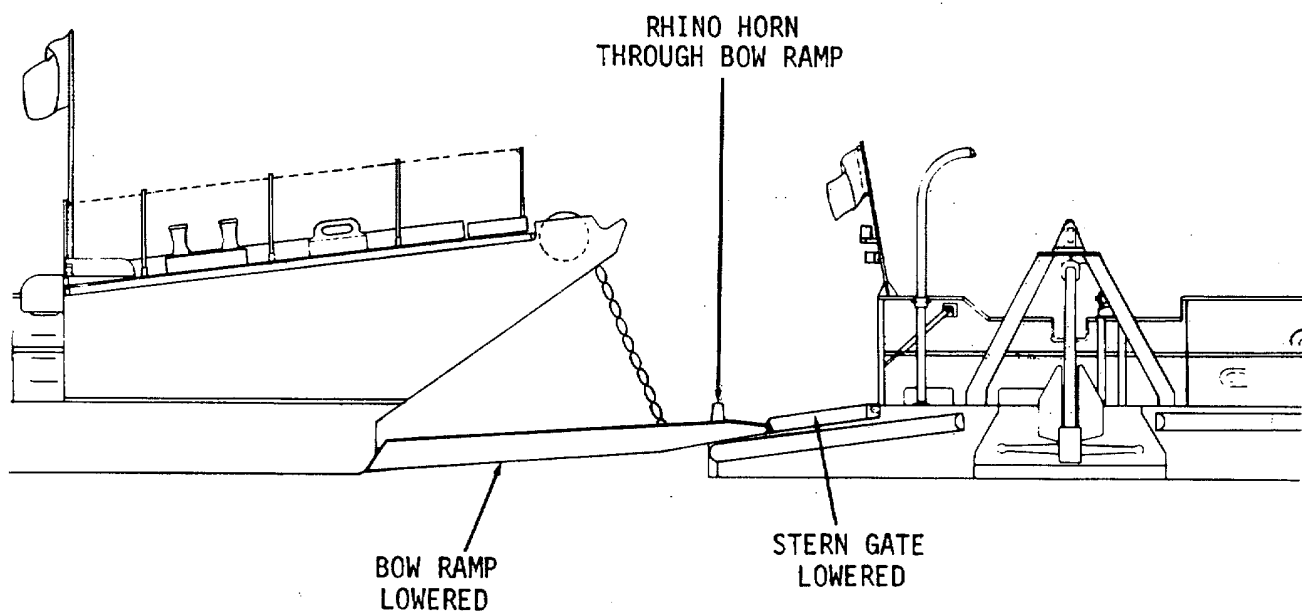


Figure 1-1. Causeway Between Two LCU's.

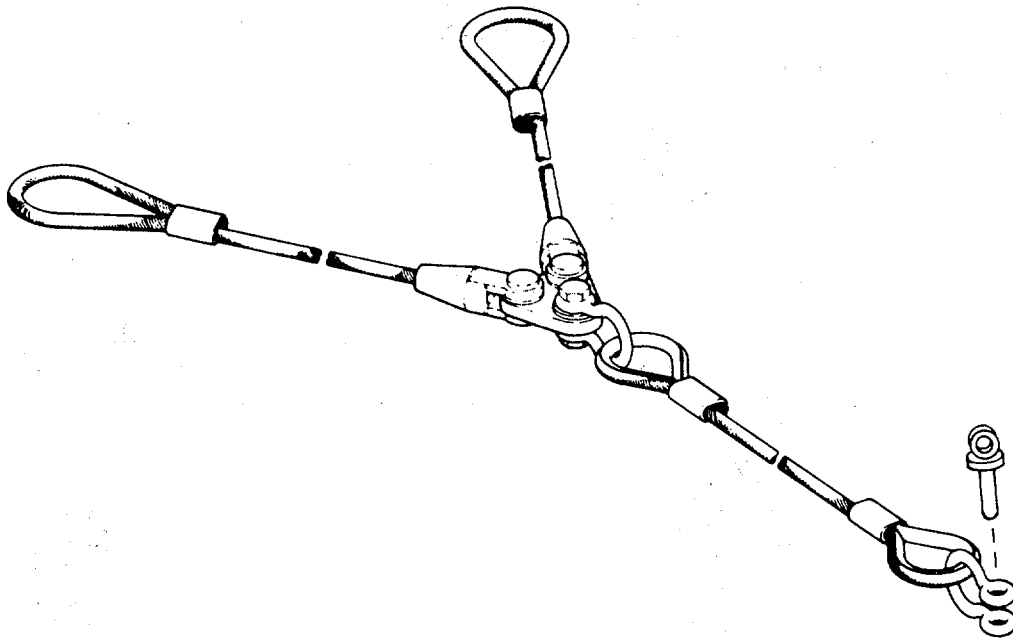


Figure 1-2. Towing Bridle.

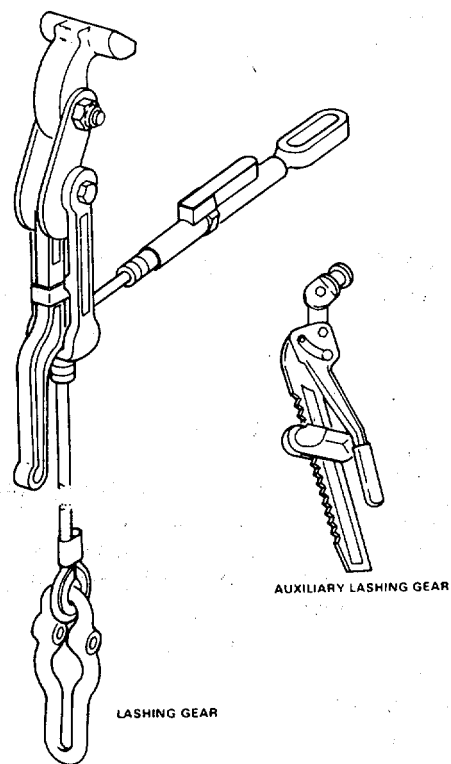
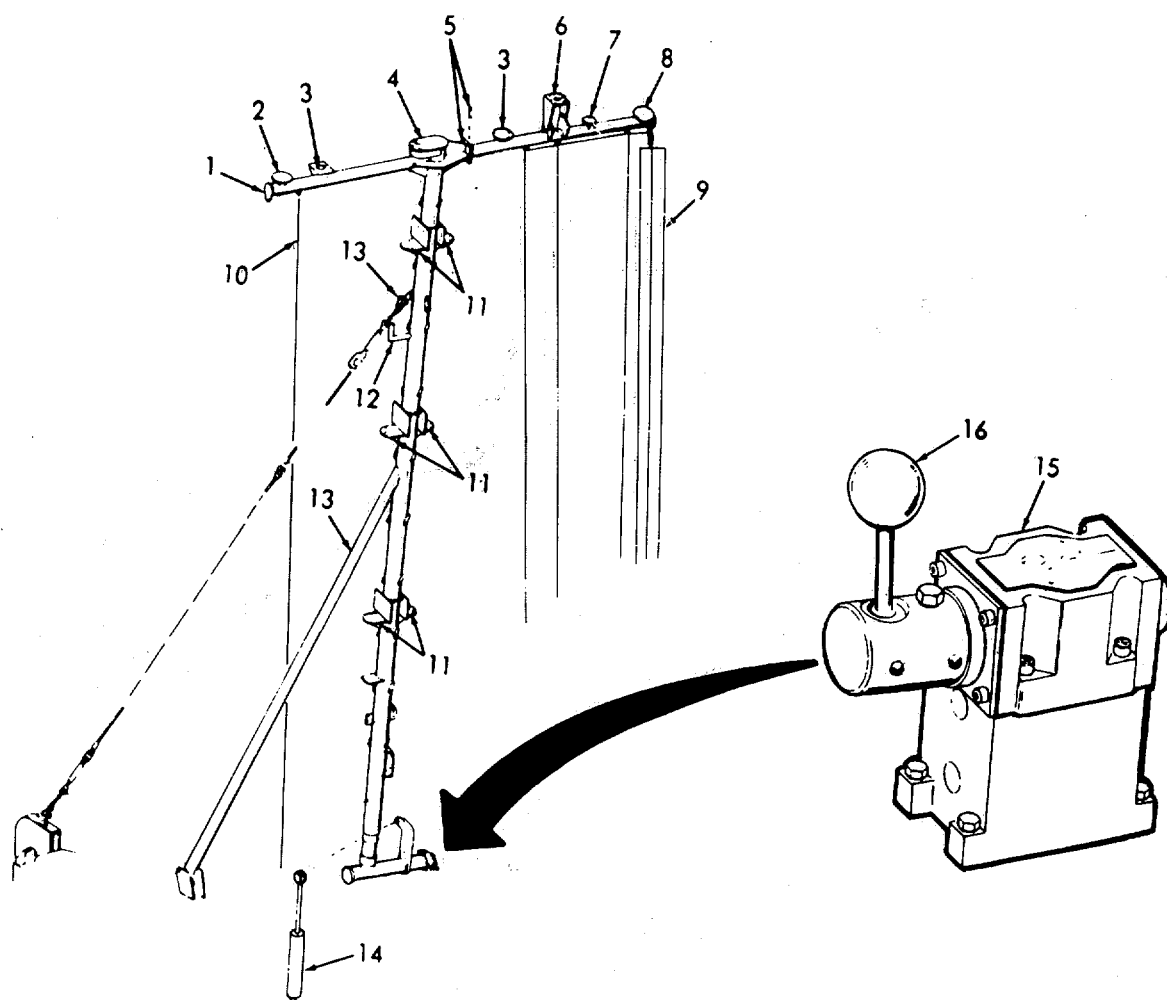
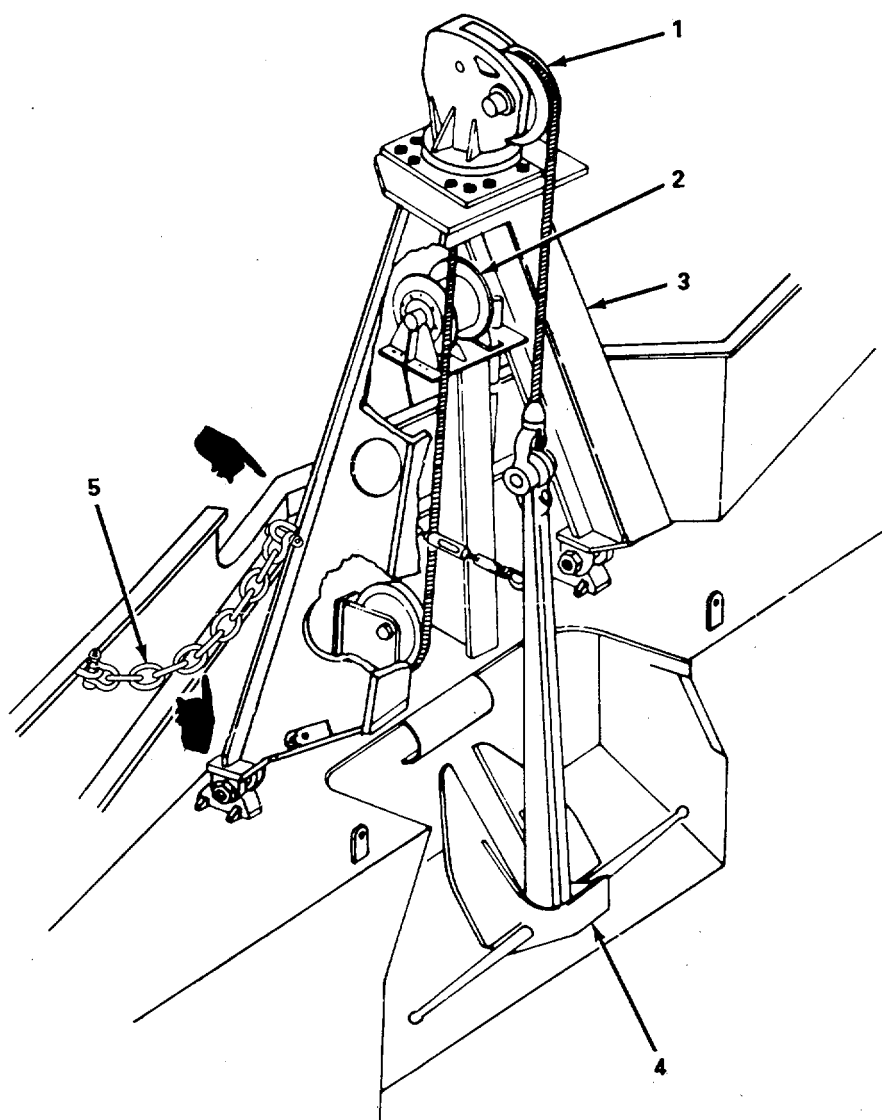


Figure 1-3. Lashing Gear.



1. Yardarm
2. Communication Antenna (AS/1729/VRC)
3. Aircraft Obstruction Marker/Blinker Light (Red)
4. Remote Magnetic Heading System (RMHS) Transmitter
5. Yardarm Pivot and Cotter Pin
6. Anchor Light (White)
7. Communication Antenna (AS/3095/URC)
8. Masthead Light (White)
9. Light Hoist Line, Guide Lines, Task/Towing Lights (White)
10. Halyards, Padeyes and Blocks (Rigging)
11. Man Overboard and Breakdown Lights (Red)
12. Identification Friend, Foe Antenna (AS1177-B/UPX) (IFF)
13. Mast Brace and Support
14. Hydraulic Lifting Cylinder
15. Directional Control Valve
16. Directional Control

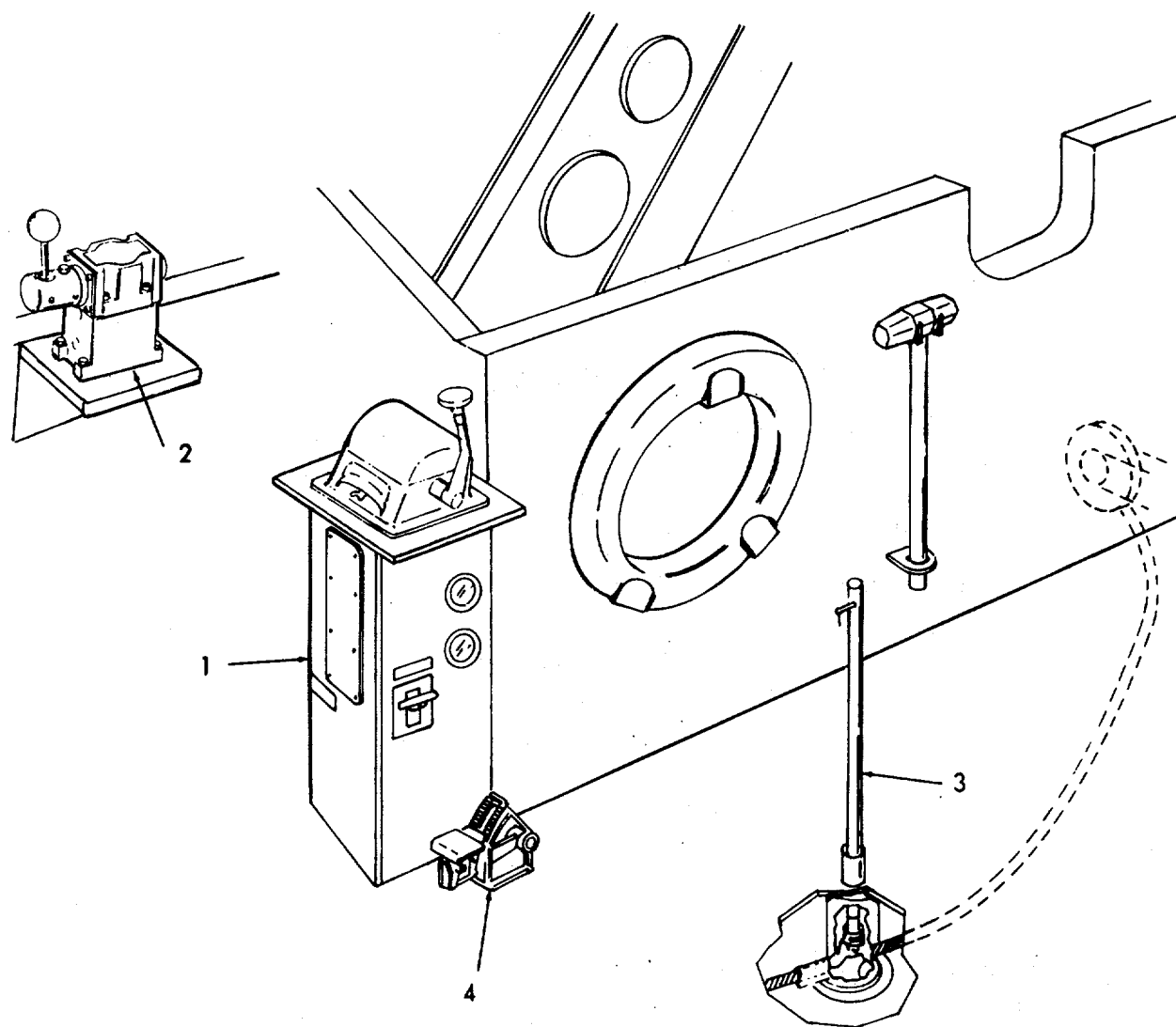
Figure 1-4. Components of the Mast.



4955-001

- 1- FAIRLEAD - Guide for anchor cable.
- 2- HYDRAULIC WINCH - Controls the angle of pivot of the anchor "A" frame.
- 3- "A" FRAME - Holds the anchor clear of the side of the vessel.
- 4- ANCHOR
- 5- SAFETY CHAIN - Restricts total outboard travel of "A" frame.

Figure 1-5. Anchor "A" Frame.



- 1- CONTROL STATION - Operating controls to raise and lower the anchor.
- 2- DIRECTIONAL CONTROL - Controls the angle of pivot of the "A" Frame.
- 3- WIRE ROPE CUTTER - Cuts the anchor cable in case of emergency.
- 4- FOOT BRAKE - Controls the anchor cable.

Figure 1-6. Anchor Winch Control Station Cargo Deck.