U.S.S. CONSTITUTION
STANDING RIGGING

GENERAL INFORMATION

READ THIS FIRST:

START WITH THE RIGGING ON THIS SIDE OF THE SHEET AND COMPLETE BEFORE PROCEEDING TO THE REVERSE SIDE.

KIT 0398 Revell-Monogram, LLC Northbrook, IL.

 0398-4210

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INTRODUCTION TO RIGGING YOUR U.S.S. CONSTITUTION

At this point you have completed the Basic Assembly of your Constitution. However, no sailing ship is complete without a minimum amount of Rigging. This usually is comprised of the Lines that locate and support the MASTS. Once rigged these lines become a structural part of the Ship. Once rigged they seldom, if ever required adjustment and were usually coated with tar to protect them from the elements. These lines are known as the **STANDING RIGGING.**

THE RUNNING RIGGING performs an entirely different function than the STANDING RIGGING, these are the working lines of the Ship, used to raise or lower the YARDS (HALYARDS), raise or lower the SAILS (CLEW LINES), or trim them to the wind (SHEET LINES and BRACES). As they are in constant use they must remain in their natural state.

For this reason your kit contains two colors of THREAD and three sizes of each color. The Black is used for all STANDING RIGGING and the tan for all RUNNING RIGGING. The(small size)of each color is used for tieing BLOCKS, BULLEYES, etc. The(large size)for the lower lines, and the(medium size)is generally used for the UPPER RIGGING in both colors.

In the following illustrations a heavy (thick) line will indicate the use of the(large size)thread and a lighter (thinner) line will indicate the use of the(medium size)THREAD.

The STANDING RIGGING must be rigged before THE RUNNING RIGGING. This consists of all the HEAD GEAR RIGGING, the RATLINES and the FORE and BACK STAYS.

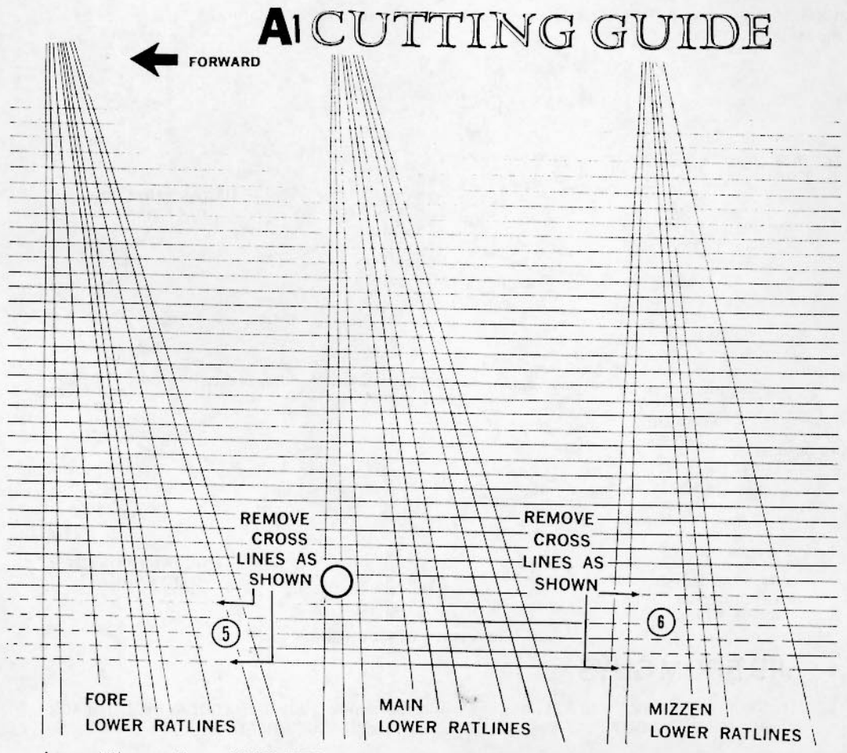
All lines must be rigged very carefully to avoid warping the MASTS out of alignment. Pull each line just tight enough to remove any slack — over-tightening will cause other lines to go slack or perhaps bend the part you are tieing to. Secure all ties with a small drop of cement, later when cement has set trim excess thread.

Due to the complexity of Rigging your ship, most of the illustrations will show only those lines on the FORE and AFT CENTER LINE of your ship, or those rigged on one side only. For each of these, a duplicate line must be rigged on the opposite side of the ship as well. As an example, if the illustration is of the RIGHT SIDE of the ship, and a line attachment is indicated as **pin-23 (LH-42),** this would mean Pin 23 is on the Right Side and the line illustrated would tie off at that pin, (LH-42) would be the pin on the left side where the duplicate of line 23 would be rigged. If the illustration is of the opposite or left side of the ship it would be **INDICATED AS PIN-42 (RH-23).**

Rigging of your Model will be much easier if you pull each piece of THREAD as used, over a cake of Bee's wax or paraffin. This will prevent moisture from affecting the RIGGING as well as help prevent the THREAD ENDS from fraying when rigging through BLOCKS or EYEBOLTS.

1 RIGGING THE LOWER RATLINES

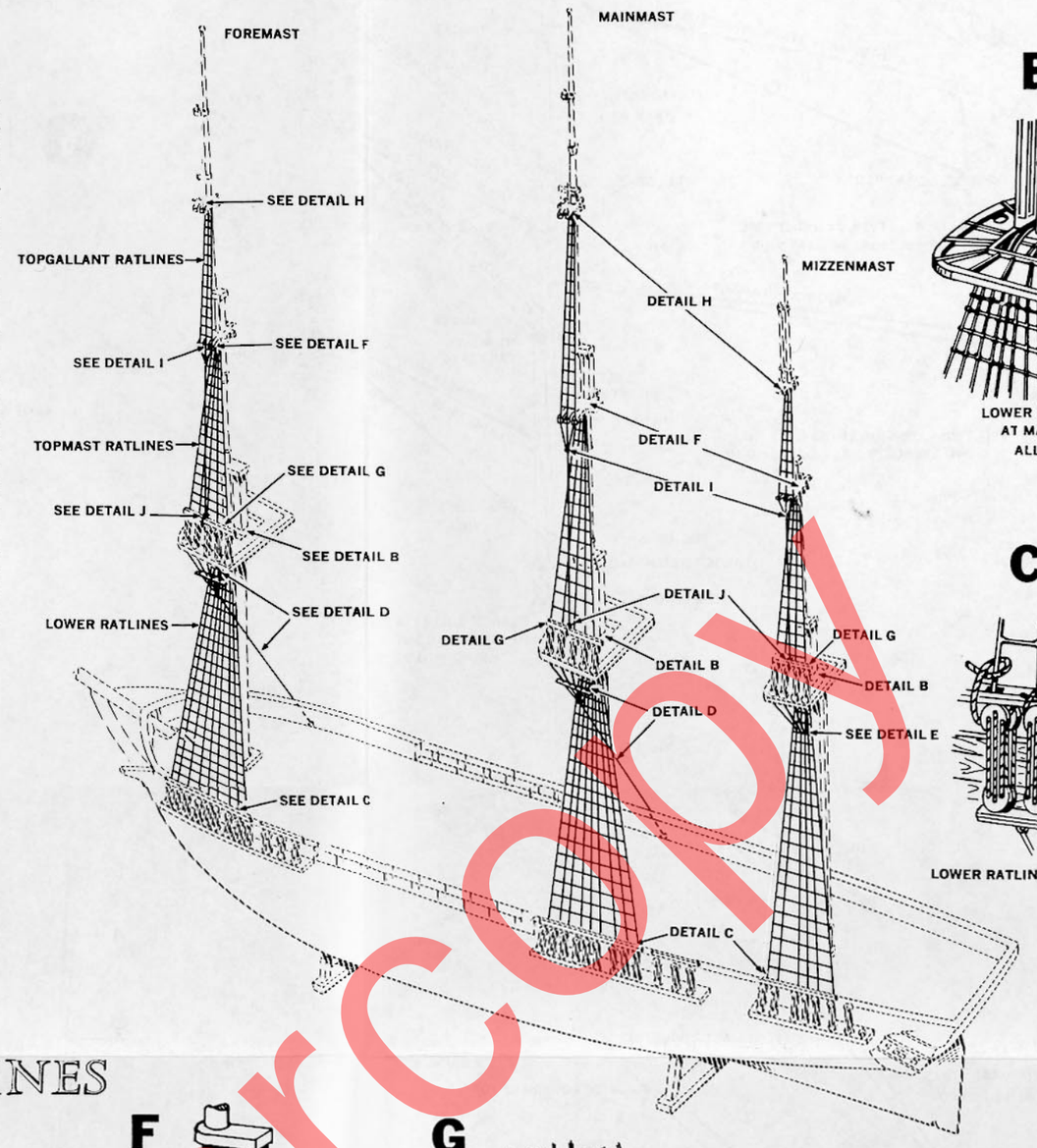
A1 CUTTING GUIDE



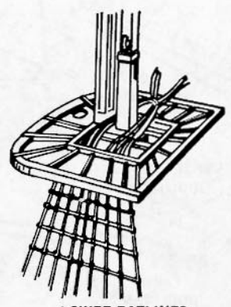
Lay out the pre formed RATLINES so that you can identify the individual ones as indicated by **DRAWINGS A-1** and **A-2.**

1. Carefully cut the HORIZONTAL LINES that extend beyond the RATLINE PATTERN for both sections of the FORE LOWER RATLINES, then remove the five LOWER HORIZONTAL LINES as indicated.
2. Tie UPPER ENDS of RATLINES at MASTCAP as indicated in **DRAWING B** for both RIGHT and LEFT SIDES.
3. Tie LOWER ENDS of LINES to DEADEYES as indicated in **DRAWING C** and touch knot with cement. Cut excess LINE after cement has set. Check MAST alignment during tieing operation. Tension should be equal on both sides to prevent misalignment of MAST.
4. Rig the MAIN and MIZZEN LOWER RATLINES following the same procedure as on the FOREMAST.
5. Refer to **DRAWING D.** The FUTTOCK SHROUDS previously rigged in assembly Steps 32, 37 and 42 may now be tied off. Lead free end through RATLINE, behind MAST, and tie to EYEBOLT on CHANNEL OUTSIDE of HULL.
6. The FUTTOCK SHROUDS on the MIZZEN MAST are tied to the LOWER RATLINES approximately one inch below MASTTOP as shown in **DRAWING E.**

DETAILS OF RATLINE RIGGING

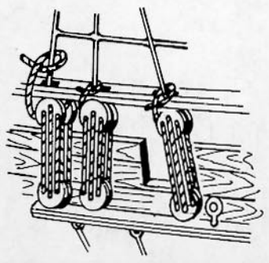


B



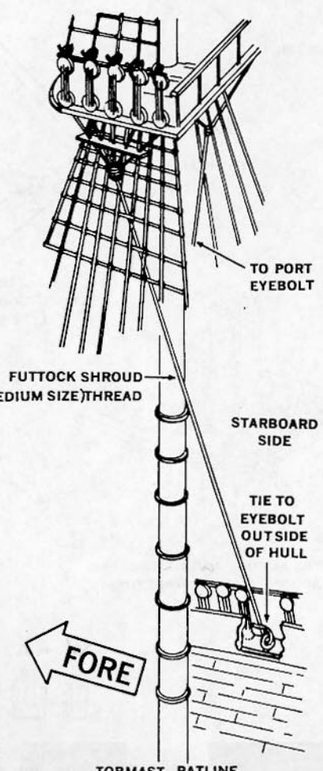
LOWER RATLINES AT MASTTOP ALL MASTS

C



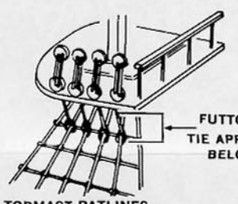
LOWER RATLINES AT HULL DEADEYES ALL MASTS

D



TOPMAST RATLINE FUTTOCK SHROUDS AT MASTTOP AND HULL DEADEYES FOREMAST AND MAINMAST

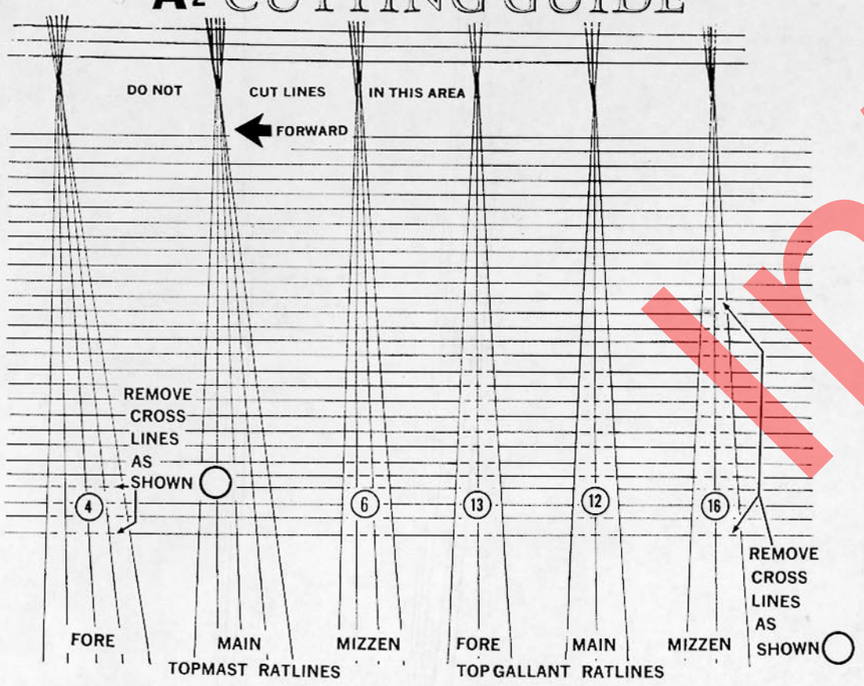
E



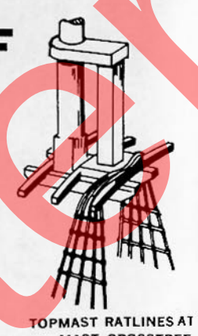
TOPMAST RATLINES FUTTOCK SHROUDS AT MASTTOP MIZZENMAST ONLY

2 RIGGING THE UPPER RATLINES

A2 CUTTING GUIDE

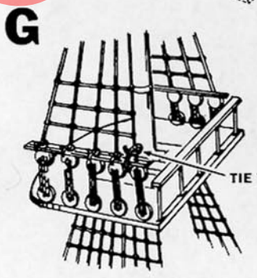


F



TOPMAST RATLINES AT MAST CROSSTREE ALL MASTS

G



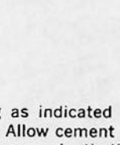
TOPMAST RATLINES AT MASTTOP DEADEYES ALL MASTS

TOPMAST RATLINE

1. Refer to **DRAWING** A-2 and cut out the FORE TOPMAST RATLINES. Leave the two sections attached at the center. Remove HORIZONTAL LINES as indicated.
2. Place CENTER of RATLINES over FOREMAST CROSSTREE as shown in **DRAWING F.** Pull ends down and tie to DEADEYES on MASTTOP as shown in **DRAWING G.**
3. Cut out and rig TOPMAST RATLINES for MAIN MAST as described in 1 and 2 above. Then the MIZZENMAST TOPMAST RATLINES.

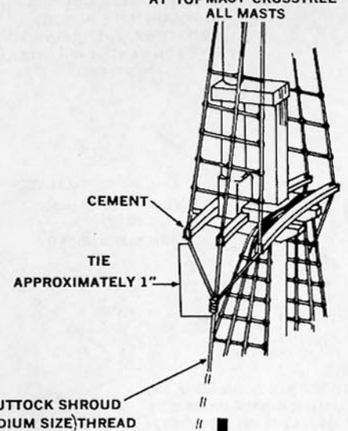
H

TOPGALLANT RATLINES AT TOPGALLANT CROSSTREE ALL MASTS



I

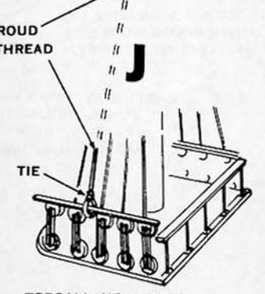
TOPGALLANT RATLINES AND FUTTOCK SHROUDS AT TOPMAST CROSSTREE ALL MASTS



TOPGALLANT RATLINE

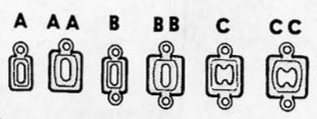
1. Cut out TOPGALLANT RATLINES for FOREMAST and rig as indicated in **DRAWINGS H** and **I.** Cement lower ends into notches of CROSSTREE. Allow cement to set then tie an 8 inch length of(medium size)BLACK THREAD to the lower ends, tie this THREAD at MASTTOP DEADEYES as indicated in **DRAWING J.**

J

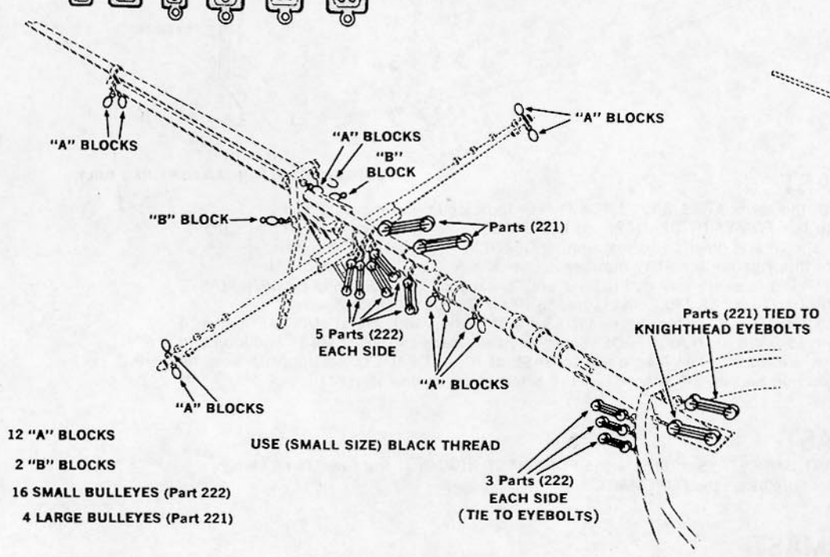


TOPGALLANT RATLINE FUTTOCK SHROUDS AT MASTTOP DEADEYES ALL MASTS

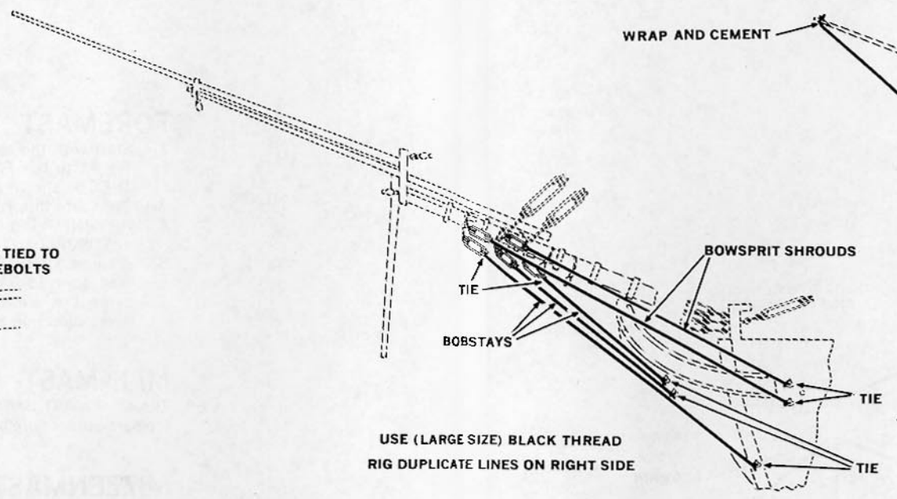
3 HEAD GEAR RIGGING



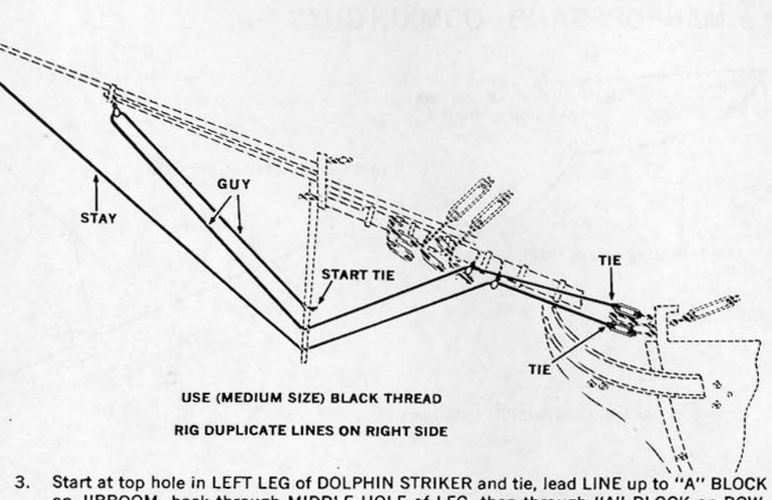
SINGLE LETTER BLOCKS ARE USED FOR (MEDIUM SIZE)LINES. DOUBLE LETTER BLOCKS FOR(LARGE SIZE)LINES.



1. Tie BLOCKS and BULLEYES to BOWSPRIT, JIBBOOM and EYEBOLTS at front of HULL as shown. Use small size BLACK THREAD.



2. Rig three BOBSTAYS and two BOWSPRIT SHROUDS on each side of ship. Use large size BLACK THREAD.

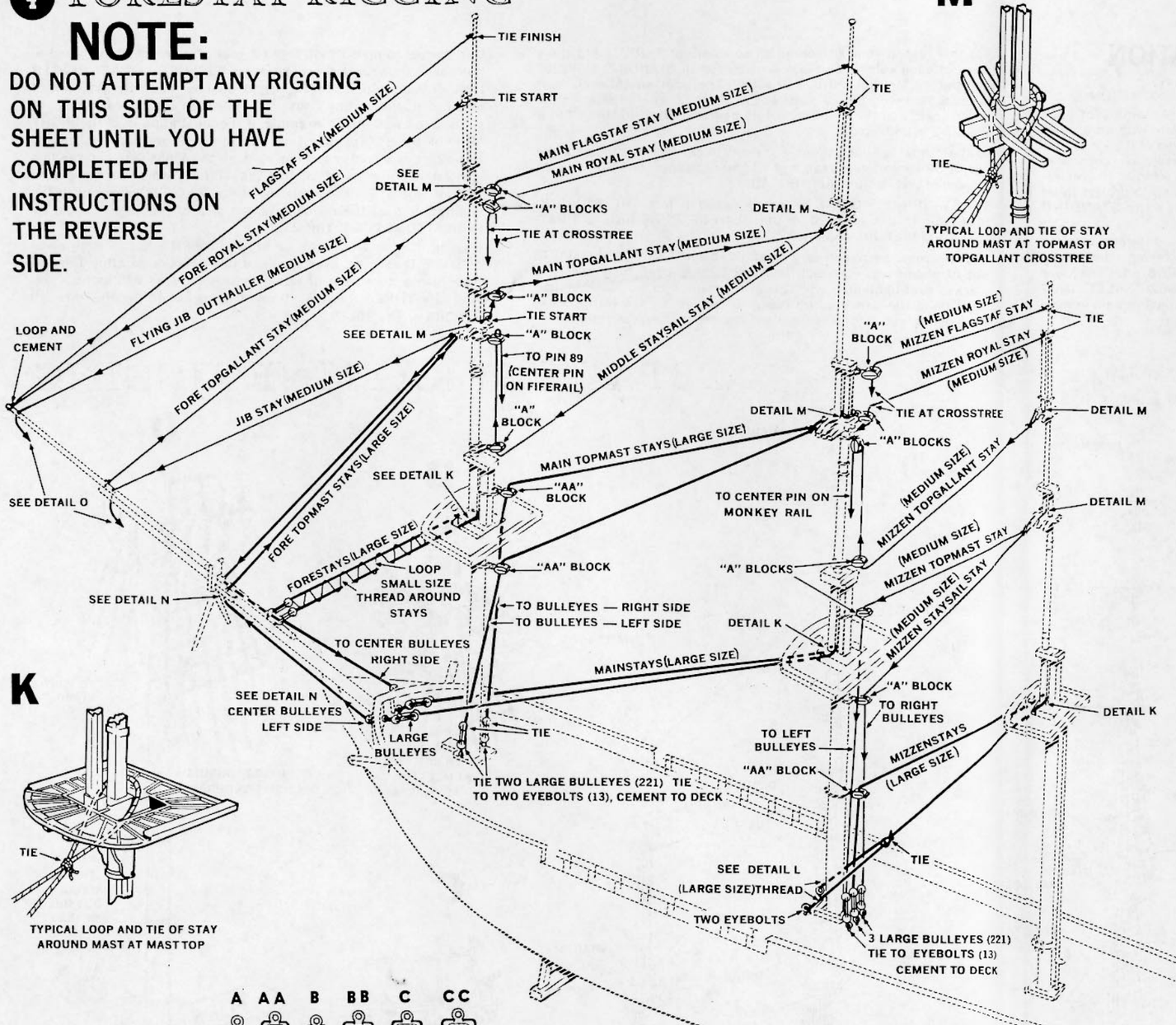


3. Start at top hole in LEFT LEG of DOLPHIN STRIKER and tie, lead LINE up to "A" BLOCK on JIBBOOM, back through MIDDLE HOLE of LEG, then through "A" BLOCK on BOWSPRIT and tie to top BULLEYES as shown. Repeat on RIGHT SIDE.
4. Tie LINE to LOWER BULLSEYE on LEFT SIDE of BOWSPRIT. Lead LINE through "A" BLOCK, DOLPHIN STRIKER LEG then wrap and cement at tip of FLYING JIBBOOM, and continue down RIGHT SIDE in the reverse order to BULLEYES.

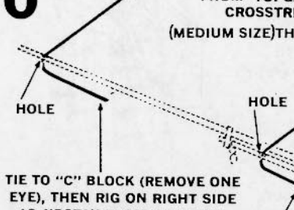
4 FORESTAY RIGGING

NOTE:

DO NOT ATTEMPT ANY RIGGING ON THIS SIDE OF THE SHEET UNTIL YOU HAVE COMPLETED THE INSTRUCTIONS ON THE REVERSE SIDE.



K

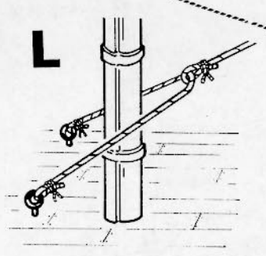


TYPICAL LOOP AND TIE OF STAY AROUND MAST AT MASTTOP

A AA B BB C CC

SINGLE LETTER BLOCKS ARE USED FOR (MEDIUM SIZE)LINES. DOUBLE LETTER BLOCKS FOR(LARGE SIZE)LINES.

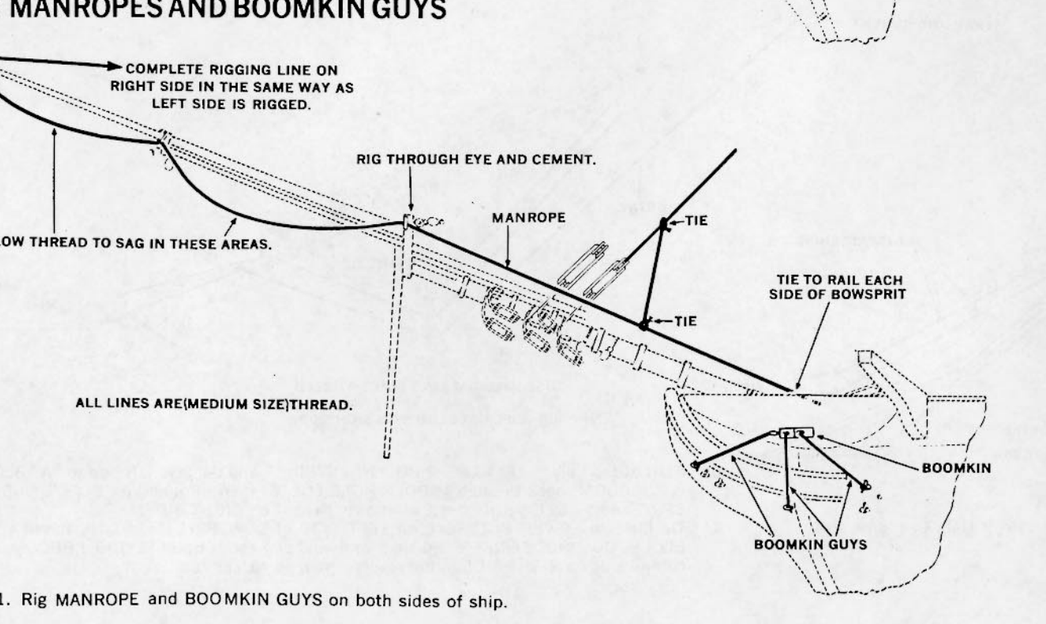
L



M

TYPICAL LOOP AND TIE OF STAY AROUND MAST AT TOPMAST OR TOPGALLANT CROSSTREE

N



TIE TOPMAST STAY TO CENTER BULLEYE ON LEFT SIDE. LEAD UP THROUGH HOLE IN PLATE TO CROSSTREE, THEN DOWN TO PLATE AND CENTER BULLEYES ON RIGHT SIDE

O

5 MANROPES AND BOOMKIN GUYS

1. Rig MANROPE and BOOMKIN GUYS on both sides of ship.

FORESTAY RIGGING

To prevent misalignment or warping the MASTS, the FORESTAY RIGGING should start with the LOWER (LARGE SIZE) STAYS at all three MASTS. Start at the FOREMAST and rig the lower four STAYS, see DETAIL N, then to the MAINMAST four lower STAYS, and finish with the MIZZENMAST two lower STAYS. Rig LINES just tight enough to remove slack. Overtightening will result in misalignment of MASTS.

FOREMAST FORESTAYS

1. Use(medium size)THREAD for the following LINES.
2. Tie JIB STAY at CROSSTREE, lead running end of LINE through hole in BOWSPRIT and complete RIGGING as shown in Detail O.
3. Tie TOPGALLANT STAY to BOWSPRIT, lead end up and around CROSSTREE (see Detail M) then down through hole in BOWSPRIT and complete as shown in Detail O.
4. Rig FORE ROYAL and FLAGSTAFF STAYS as indicated.

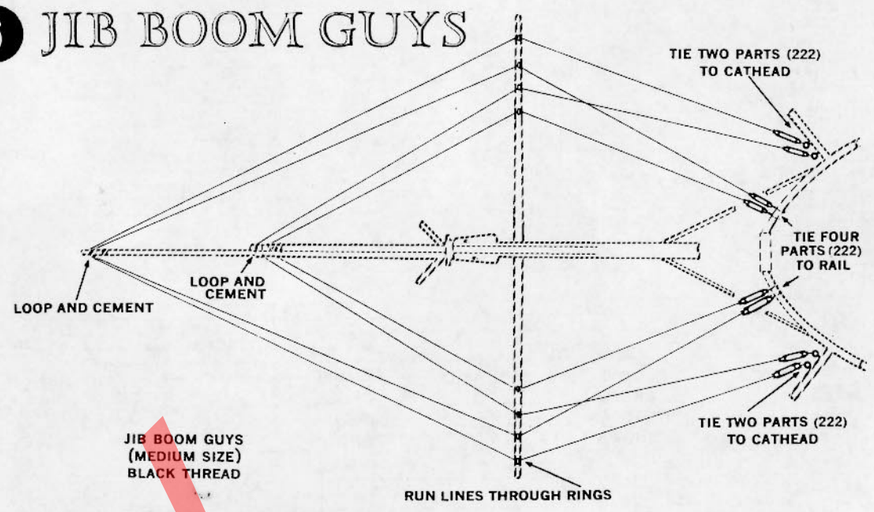
MAINMAST FORESTAYS

1. Rig the TOPGALLANT and MIDDLE STAYSAIL STAYS by tieing line at FOREMAST CROSSTREE, lead LINE up through "A" BLOCK, back to MAINMAST CROSSTREE, forward to two "A" BLOCKS on FOREMAST, then down to center pin on FIFERAIL.
2. Rig the ROYAL and FLAGSTAFF STAYS as shown.

MIZZENMAST FORESTAYS

1. Rig the MIZZENMAST five upper FORESTAYS as indicated. They are rigged approximately the same as the MAINMAST FORESTAYS.

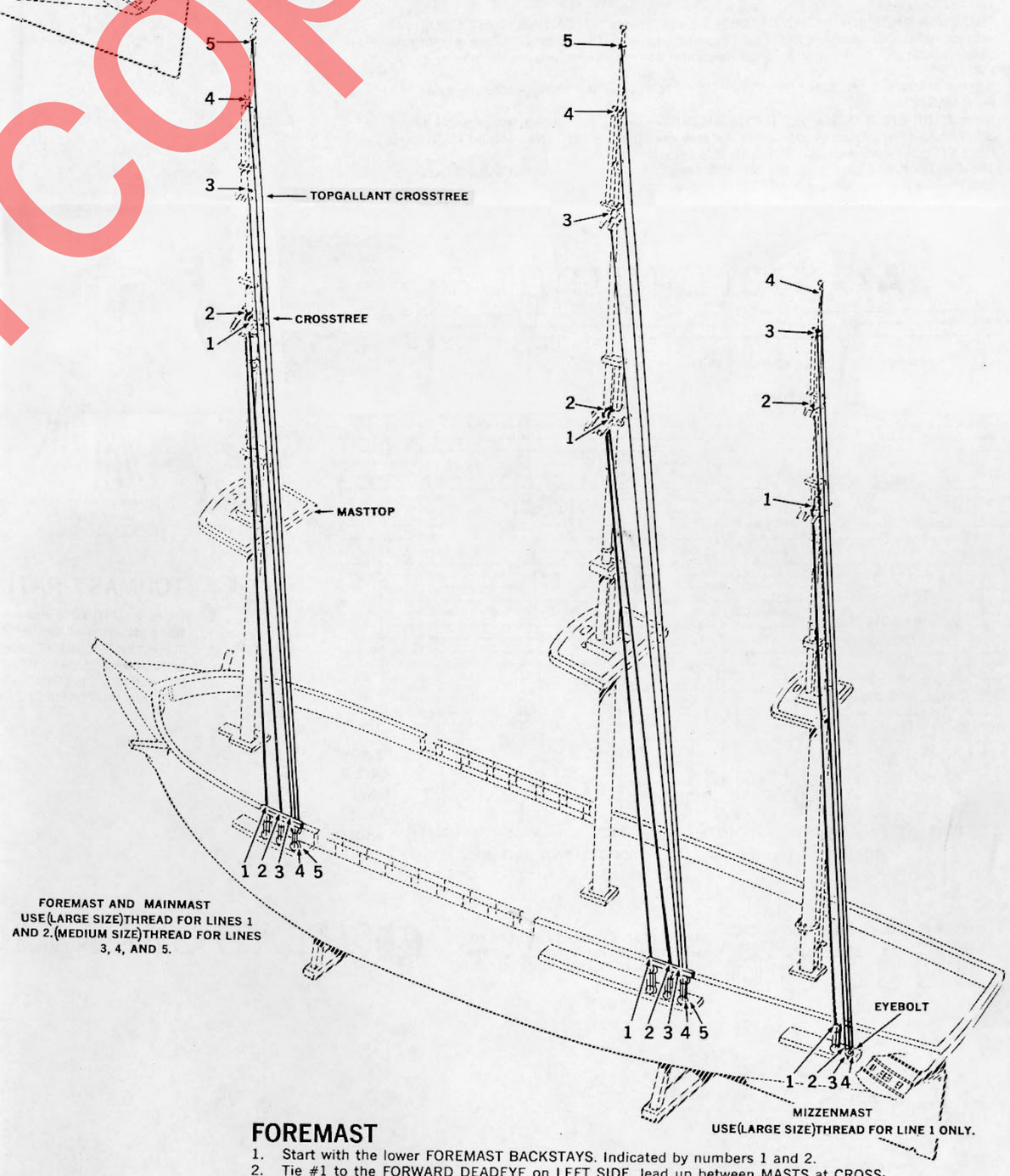
6 JIB BOOM GUYS



JIB BOOM GUYS

1. Tie four Parts (222) to RAIL as shown and four Parts (222) to EYEBOLTS on CATHEADS.
2. Rig JIB BOOM GUYS as shown using(medium size)BLACK THREAD.

7 BACKSTAY RIGGING



FOREMAST

1. Start with the lower FOREMAST BACKSTAYS. Indicated by numbers 1 and 2.
2. Tie #1 to the FORWARD DEADEYE on LEFT SIDE, lead up between MASTS at CROSSTREE as shown and down to corresponding DEADEYE on RIGHT SIDE and tie.
3. Duplicate this rigging for STAY number 2. Use second DEADEYE on both sides.
4. Rig LINE 3 in the same way as LINES 1 and 2, except the LINE loops between MASTS at TOPGALLANT CROSS TREE and is tied to REAR DEADEYE on both sides.
5. A single THREAD is used for rigging LINES 4 and 5. Start with TIE at MAST at number 4, lead down to BASE of REAR DEADEYE and tie, then back to TOP of MAST and loop and cement at number 5, then lead down to BASE of REAR DEADEYE on opposite side, reverse direction and tie off at MAST at the same place as line started.

MAINMAST

The MAINMAST BACKSTAYS duplicate the FOREMAST RIGGING. Rig the STAYS using the same procedure as on the FOREMAST.

MIZZENMAST

The MIZZENMAST has only four BACKSTAYS.

1. The LOWER STAY is rigged the same as on other MASTS.
2. The TOP THREE STAYS all attach to the EYEBOLT AFT of the DEADEYE and are rigged to MAST at points indicated.