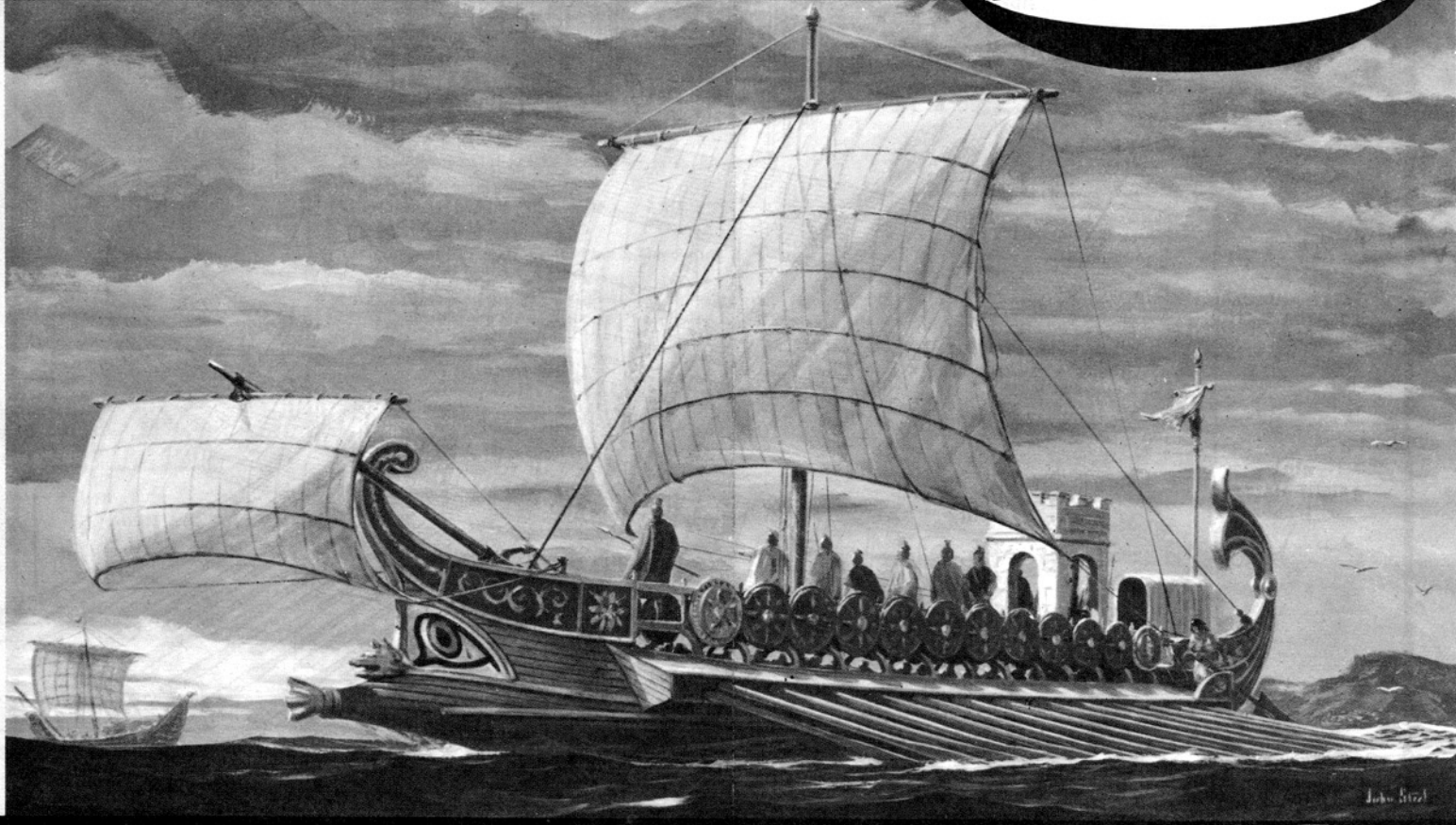


INSTRUCTIONS FOR ASSEMBLING THE

ROMAN BIREME

435

AURORA



IMPORTANT - READ THIS FIRST!

Before assembling model, study sketch carefully.

Important—Apply cement to inside surfaces only. Avoid getting cement on outer surfaces of model sections. Use cement very sparingly and avoid getting cement on hands, so as not to mar or smear plastic surfaces.

Do not hurry. Work carefully and patiently. Important Note: Before proceeding to cement parts together, it is advisable to fit parts together dry (without cement) so that you may familiarize yourself with the parts and how they go together, also noting the points where cement is to be applied.

For best results assemble model exactly in the order indicated.

This kit is molded of styrene plastic—Use only Aurora's Fireproof Styrene Cement and Aurora's Speed-Dry Enamel. Assure yourself of a perfect model every time!

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AURORA PLASTICS CORP.
West Hempstead, L. I., N. Y.

THIS KIT IS MOLDED OF STYRENE PLASTIC

Use Only . . .

AURORA'S

**FIREPROOF
STYRENE PLASTIC
CEMENT**



TUBE 10c

BOTTLE WITH BRUSH 25c

"THE ENAMEL WITH THE SPRAYED LOOK"

- ONE COAT COVERS
- NO BRUSH MARKS
- DRIES IN 30 MINUTES



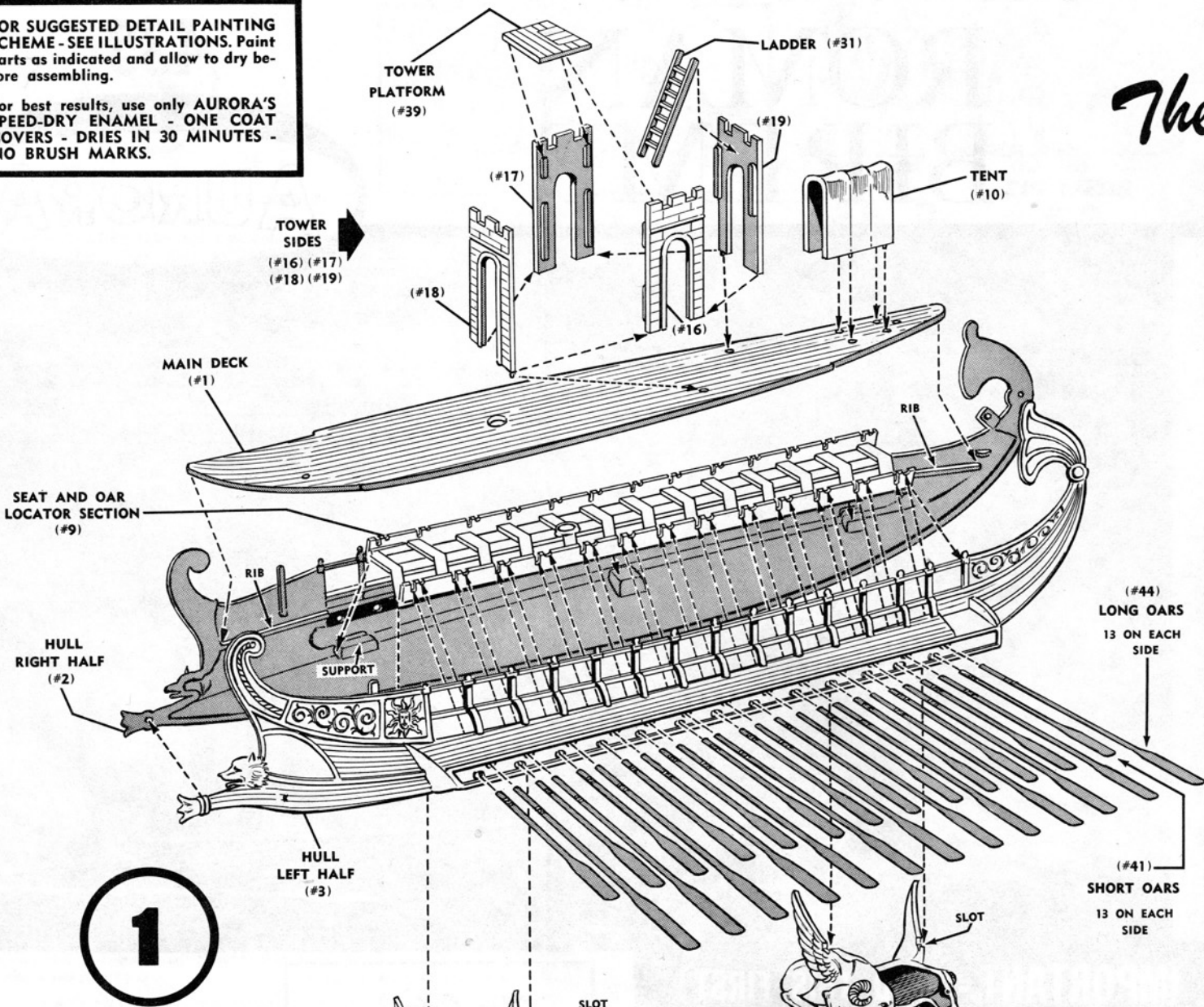
SPEED-DRY ENAMELS are AURORA'S REVOLUTIONARY NEW ENAMEL PAINTS developed after years of research especially for Plastic Models and other products of Wood, Metal, Glass or China.

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MADE IN U. S. A.

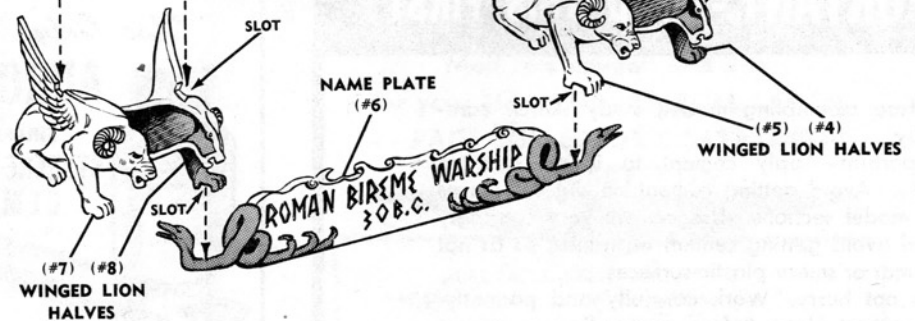
FOR SUGGESTED DETAIL PAINTING SCHEME - SEE ILLUSTRATIONS. Paint parts as indicated and allow to dry before assembling.

For best results, use only AURORA'S SPEED-DRY ENAMEL - ONE COAT COVERS - DRIES IN 30 MINUTES - NO BRUSH MARKS.



1

1. Cement lower right edge of SEAT and OAR LOCATOR SECTION (#9) over the 3 supports located inside HULL RIGHT HALF (#2).
2. Apply cement to tops of 3 SUPPORTS inside HULL LEFT HALF (#3). Then cement HULL HALVES together, enclosing SEAT and OAR LOCATOR SECTION resting on the 6 SUPPORTS. Set SHIP aside to dry.
3. Cement WINGED LION HALVES (#7) (#8) and (#4) (#5) together.
4. Cement the SLOT on each LION'S FOREPAW down over SNAKES on ends of NAME PLATE (#6).
5. Now, cement the KEEL into SLOTS in LIONS' WINGS. (Top of WINGS fit contour of SHIP'S HULL.) OARS assembly will be easier for you with SHIP resting on the WINGED LION STAND.
6. OARS ASSEMBLY: There are 13 SHORT OARS (#41) and 13 LONG OARS (#44) for the LEFT SIDE OF SHIP, (As shown in this illustration). Start first with the SHORT OARS which will extend through the bottom row of holes in side of HULL. Push a SHORT OAR END through each lower hole and cement it into the DEEP NOTCHES running along the SEAT



AND OAR LOCATOR SECTION.

7. Now, follow the same procedure; cement the 13 LONG OARS (#44) through upper row of holes and into SHALLOW NOTCHES in SEAT AND OAR LOCATOR SECTION.
8. Now turn your MODEL around and cement the remaining 13 SHORT OARS (#13) and 13 LONG OARS (#12) through holes in RIGHT SIDE of HULL.
9. Cement MAIN DECK (#1) down onto RIBS running along inside of HULL.

10. Cement TOWER SIDES (#16) (#17) (#18) (#19) together. Then cement small pegs on bottoms of (#18) and (#19) into corresponding holes in DECK.
11. Cement LADDER (#31) to DECK inside TOWER, leaning top of LADDER against inside of TOWER SECTION (#19).
12. Cement TOWER PLATFORM (#39) down onto RIBS inside TOWER.
13. Cement the 4 small pegs on bottom edges of TENT (#10) into corresponding holes in DECK.

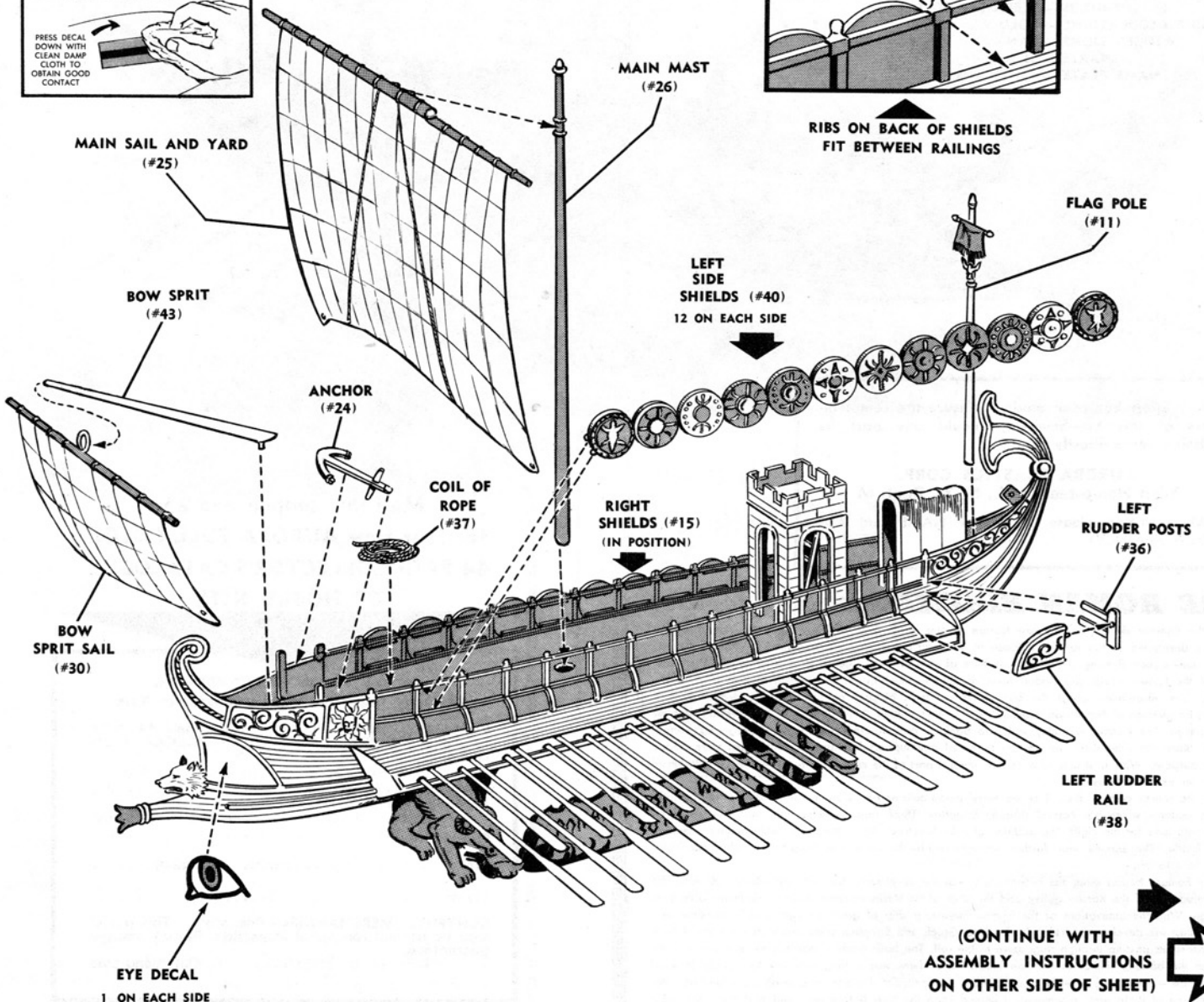
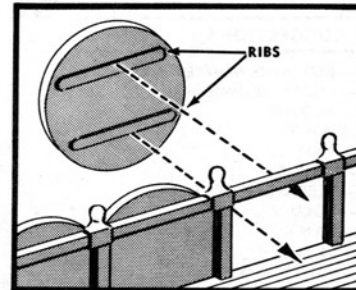
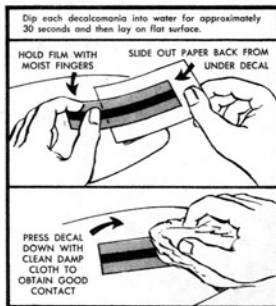
The

ROMAN BIREME WARSHIP

2

14. There are 24 SHIELDS, 12 for each side. Cement the 12 SHIELDS (#40) between RAILING POSTS on LEFT SIDE of HULL. Then cement remaining 12 SHIELDS (#15) to RIGHT SIDE of HULL.
15. Cement LEFT RUDDER POSTS (#36) to LEFT RUDDER RAIL (#38), and cement to LEFT SIDE of HULL. Repeat for RIGHT SIDE of HULL.
16. Cement MAIN MAST (#26) into hole in center DECK.
17. Cement MAIN SAIL AND YARD (#25) to MAIN MAST.
18. Cement FLAG POLE (#11) into remaining hole in DECK behind TENT.
19. Cement small peg on BOW SPRIT (#43) into DECK. (BOW SPRIT should rest over LEFT Side of BOW POINT.)

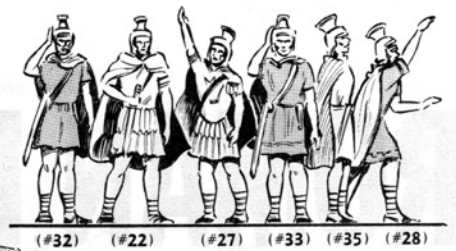
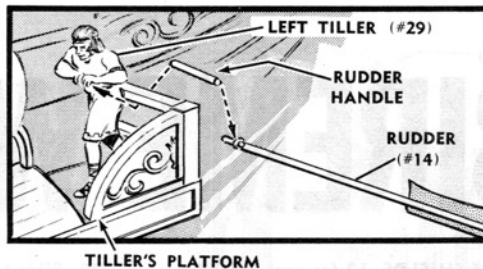
20. Slide LOOP on BOW SPRIT SAIL (#30) down over BOW SPRIT (#43) and cement.
21. Apply an EYE DECAL to open space on each side of BOW. (Read DECAL NOTE before applying.)
22. Cement ANCHOR (#24) and COIL OF ROPE (#37) to DECK.



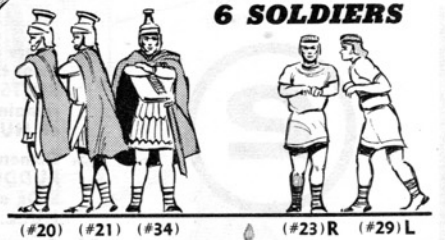
(CONTINUE WITH ASSEMBLY INSTRUCTIONS ON OTHER SIDE OF SHEET)

3

23. Cement LEFT TILLER (#29) to TILLER'S PLATFORM on LEFT SIDE of HULL.
24. Cement a RUDDER HANDLE into hole at top of RUDDER (#14). Then slide RUDDER HANDLE through LEFT RUDDER POSTS and cement the HANDLE under TILLER'S HANDS. (Repeat steps 23 and 24 for RIGHT TILLER.)
25. There are 9 FIGURES remaining: 6 SOLDIERS and 3 RULERS. Cement FIGURES to DECK.
26. RIGGING: Use SEWING THREAD and follow illustration below to guide you in completing your MODEL.



6 SOLDIERS

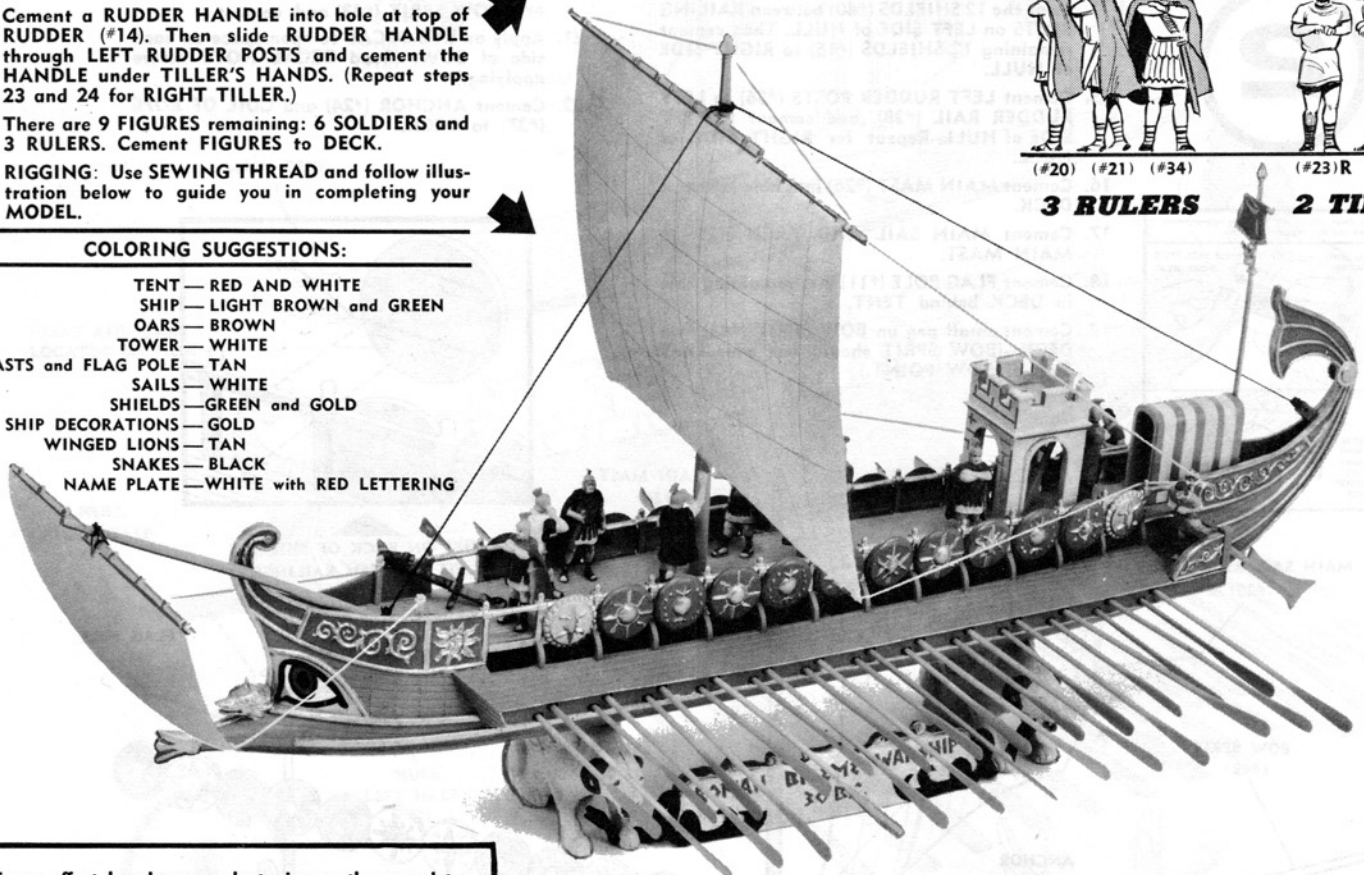


3 RULERS

2 TILLERS

COLORING SUGGESTIONS:

- TENT — RED AND WHITE
- SHIP — LIGHT BROWN and GREEN
- OARS — BROWN
- TOWER — WHITE
- MASTS and FLAG POLE — TAN
- SAILS — WHITE
- SHIELDS — GREEN and GOLD
- SHIP DECORATIONS — GOLD
- WINGED LIONS — TAN
- SNAKES — BLACK
- NAME PLATE — WHITE with RED LETTERING



Every effort has been made to insure the completeness of this Kit—however, should any part be missing, write directly to:

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THE ROMAN BIREME

As the Romans developed the vast Roman Empire in the five centuries before the birth of Christ, they also developed a ship for the purpose of war and expansion of the Empire. The Roman bireme, a long ram-beaked fighting ship with two tiers of oars on each side, aided the Romans in their conquest of the known world and ridged them of their enemies in the Mediterranean Sea.

The first information about the biremes comes from pictures on Grecian vase fragments, believed to be pictures of Phoenician warships. The Greeks copied these designs in the creation of their own warships. The bireme, a galley with two banks of oars on each side, began as large, lightweight dugouts. Since the sides were too narrow to be of any support for the oars, outriggers were added for this purpose. With a strong ram as an integral part of the craft, this sturdy, maneuverable vessel became an excellent warship.

By the fourth century B.C., biremes were being built on ribs, a radical innovation of the Corinthian ship builders which has carried through to today. These ships were so light that they could be carried onto land for the night. The addition of a keel solved the problem of withstanding ramming during battle. The bireme was further strengthened by the use of a storming bridge, which ran amidship — fore to aft.

The Romans began using the bireme as a warship very early, but not until about 150 A.D. did the development of the Roman galley and the ships of the Mediterranean attain a relatively stable level of design. With the innovations of the Roman bireme, a ship of great strength and tremendous maneuverability was developed. Lacking in the older Greek and Egyptian ships was a new system of hails — vertical ropes passing through rings sewn to the sail. The hails made it possible to reef and furl the sail from the bottom, similar to venetian blinds. Also, there was a long spar raking sharply forward over the bow — something between a mast and a bowsprit. On this was set a small sail called an artemon. Because of its forward placement, it helped keep the ship before the wind and thus was more of a steering aid than a pulling sail.

Throughout its history, from the Phoenicians through the Greeks to the Romans, the bireme remained one of the most graceful and maneuverable of the classical warships and the improvements made by the Romans greatly aided their development of the Roman Empire.

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