IN IMPORTANT / Read below before you begin...

1. Read through the instructions and study assembly figure of each step. Group of general procedure makes ease of your assembly.
2. Before assembling check the parts to make sure that all are included. Handle them carefully not to misplace any of them.
3. Keep in mind the importance of not rushing the assembly. haste usually results in a poorly assembled model. it is important that assembly instructions are followed carefully. After cutting or breaking off the required part, trim away excess bits of plastic that are not part of the usable piece. Use a small sharp knife and finish the part if necessary by fine sandpaper.
4. Since your YAMATO kit consists of more than 600 parts, do not detach parts from the "tree" until you are ready to use them.
5. Paint all the parts where it is indicated following directions in each step, and let dry before assembling.
6. To strengthen smaller parts the YAMATO kit is composed of two kinds of material viz. styrene plastic and ABS resin. Therefore, to cement them either super binding agent Adhesive or ABS Nichi Bond must be used as indicated.
7. If you plan to fit handrails and handrail stanchions, study first the assembly drawing (P. 24). Before assembly, any other parts take out the flying deck plates No. 1 to No. 4 and upper deck No. 5. Check them and bore the handrail holes, where not drilled through, from the back side using a needle. Fit handrails to the deck plate No.4 before cementing it to the hull.

Particulars of the Model

Length overall ........................................... 1,315mm
Breadth max............................................. 186mm
Height overall........................................... 271mm
Main gunrode worked by automatic turning gear...
Radar type 21 and 15m. range finder interconnected to main guns
On-off searchlight
High-and-low speed change switch
Four propellers in authentic scale
Molded color deck
Variable auxiliary guns and high angle guns, etc.
Metal anchor cables
Patented waterproof system applied
Can be powered by radio control

Your YAMATO kit is an authentic plastic kit based on the Navy secret drawings No.19, 215–220 drawn on February 7, 1944 for reconstruction at Kure Navy Yard and many other reliable reference drawings. The kit shows her majestic appearance at time of the battle of Leyte Gulf.
Model designed by Mr. KOZO IZUMI.

**Electric Motors**
- Electric motor for propulsion ............... MABUCHI RS - 14K
- Electric motor for turret turning .......... MABUCHI RE - 36

**Dry Batteries (to be purchased separately)**
- 1 set, 1.5V, batteries UM 1(A) 8 pcs.
- 1 set, 1.5V, batteries UM 2(A) 2 pcs.

**Parts List (plastic parts omitted)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Quantity</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reduction gear for (propeller shafts)</td>
<td>1 net</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Turret turning gear</td>
<td>1 net</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Propeller shaft (inner)</td>
<td>2 pcs.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Propeller shaft (outer)</td>
<td>2 pcs.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Propeller shaft pipe (inner)</td>
<td>2 pcs.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Propeller shaft pipe (outer)</td>
<td>2 pcs.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Spring joint for motor shaft(large)</td>
<td>1 pcs.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Spring joint for propeller shaft(mall)</td>
<td>4 pcs.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Spring for rudder</td>
<td>1 pcs.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Rudder shaft</td>
<td>1 pcs.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Handrail stanchion</td>
<td>1 pack</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Handrail wire</td>
<td>1 pcs.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Battery box for UM 2(A)</td>
<td>1 pcs.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Miniature bulb</td>
<td>4 pcs.</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Slide switch with cord</td>
<td>1 pcs.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Switch metal</td>
<td>2 pcs.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Battery connector</td>
<td>4 pcs.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Anchor cable</td>
<td>2 pcs.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Sparce shell for turning range finder</td>
<td>1 pcs.</td>
</tr>
<tr>
<td>20</td>
<td>Vinyl pipe</td>
<td>1 pcs.</td>
</tr>
<tr>
<td>21</td>
<td>0.55 cm red cord</td>
<td>1 pcs.</td>
</tr>
<tr>
<td>22</td>
<td>0.45 cm blue cord</td>
<td>1 pcs.</td>
</tr>
<tr>
<td>23</td>
<td>0.2 mm red cord</td>
<td>1 pcs.</td>
</tr>
<tr>
<td>24</td>
<td>0.2 mm blue cord</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>25</td>
<td>0.6 cm blue cord</td>
<td>1 pcs.</td>
</tr>
<tr>
<td>26</td>
<td>15 mm self tapping screw</td>
<td>25 pcs.</td>
</tr>
<tr>
<td>27</td>
<td>2.6 x 7 mm self tapping screw</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>28</td>
<td>2.6 mm nut</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>29</td>
<td>1 x 8 mm washer</td>
<td>9 pcs.</td>
</tr>
<tr>
<td>30</td>
<td>Green felt for model support</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>31</td>
<td>Adhesive: &quot;Adhesive&quot;</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Adhesive: &quot;ABS Nichi Bond&quot;</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Silicon grease</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Contact metal</td>
<td>1 pcs.</td>
</tr>
</tbody>
</table>

**Electric Motors**
- Electric motor for propulsion ............... MABUCHI RS - 14K
- Electric motor for turret turning .......... MABUCHI RE - 36

**Dry Batteries (to be purchased separately)**
- 1 set, 1.5V, batteries UM 1(A) 8 pcs.
- 1 set, 1.5V, batteries UM 2(A) 2 pcs.
Hull Assembly. 1. Painting Bottom Color

Paint hull below water line with bottom color. Put masking tape on the marking-off line on the hull. (NOTE: The correct water line is not horizontal but makes an easy shee with slight rise at each end.) Then paint bottom with plastic lacquer mixing ratio: 20% red 65% brown 10% black and 5% white. Use only enamel or paints for plastic. Bottom area is best covered with a soft brush 1 or ½ in. wide. Allow paint to dry thoroughly and scrape dry paint from areas which will be cemented. Cement does not hold well to paint.

(Painting Hint) Round and square scuttles should be painted out black.

2. Fitting Pipes and Shaft Brackets (Use ABS Nicni Bond.)

1) Thrust pipe into each eddy plate.
2) Turn model over and cement shaft brackets to the hull as shown in drawing.
3) Thrust pipes into shaft brackets.

(Painting Hint) Paint shaft brackets, main rudder and sub rudder with bottom paint color.

3. Rudder Assembly

1) Cement C-59 right and left halves of main rudder together with shaft in between.
2) Cement C-60 sub rudder halves together. Cement it well in place to bottom as shown in drawing, so that no water enters through hole.

* For fitting main rudder C-59 refer to p. 4.
4. Wiring and Motor Fitting

1. Cement hooks for battery box E-1 well in place so that they won't fall out.
2. Fix contact pieces as shown in drawing.
3. Wire cord as indicated.
4. Fasten motor with self tapping screws.

If radio control set is to be mounted, wiring should not be performed this way. Follow direction in radio control set.

20 cm red cord
Vinyl pipe
Contact metal
35 cm blue cord
contact point metal
E-1
3 x 7 self tapping screw
wisher

Contact point metal
Connect 10 cm blue cord to terminal
tape
Contact point metal
Connect 10 cm red cord to terminal

rubber bands

〈How to keep dry batteries in place〉
In order to avoid bad contact, contact plates are made strong. As a result batteries tend to pop up. To press them down tie a piece of plate by rubber bands as shown in drawing.

Fix contact metal as shown in drawing

blue cord
red cord
5. Fitting Reduction Gear

1) Attach spring joint (large) to motor shaft. Then connect it to gear shaft.

Joint spring may come off due to high speed revolution. To avoid this it should be soldered.

2) Place covers C-55 onto shaft boxes.
3) Assemble grease boxes as shown in drawing.
4) Apply Bond into hole of propeller boss and screw in propeller shaft.
5) Thread propeller shaft into pipe. Next make it go through grease box, connecting it to gear shaft by the use of spring joint.
6) Cement grease box. Big amount of Bond should be applied so that water won't come through.

6. Fitting Main Rudder

1) Fix main rudder as assembled under Item 3, in place.
2) Assemble grease boxes.
3) Cement them with big amount of Bond so that water won't come in.
4) Cover shaft extruding from grease box with spring, fastening it by nuts. Double nuts are to be used to prevent housing of spring.
7. Assembly of Boat Recess Entrance

To attach the hull to the deck by tapping screws, make sure that the screws are satisfied with the hull plate. Each deck plate has its rear side corresponding dents. Drill them through and fasten deck plates to hull by 3×7 self-tapping screws.

If you plan to make deck plate removable for radio control purposes, apply A-6 No.4 deck setting pieces.

Notes about Decals

These Decals are waterproof.

1. Cut off Decal to be used.
2. Peel off separator (thin paper).
3. Wet ground paper. Do not keep it in water too long, as Decal will come off in water.
4. Apply Decal in place and press over ground paper. After a short while take it off. Dry Decal by patting it with soft cloth.

How to make naval ensign

1. Cut out naval ensign and remove separator.
2. Wet ground paper and fold it to paste, as shown.
3. After pressing it between fingers for a while remove ground paper.

If you plan to power your model, it should carry weights.

Put sand in plastic bags after extracting parts, and place them in space on the sides of battery box so that the model floats at water line.
Assembly of Deck No. 1

(Use Adhesive for deck plate and ABS Nichi Bend for other parts.)

1) Cement deck plate.
2) Attach F-46 to anchor cable and run it through hawse pipe.
3) Attach F-47 to F-48.
4) Cement anchor cable to the hull.

(Cable holder)
Wheel for winding up anchor, also called chain wheel or windcat.

(Capstan)
Revolving barrel on the deck for winding in rope or cable.

Order of fitting anchor cable:
1) Put anchor shank to the last link of anchor cable by pulling it open.
2) Run cable through hawse pipe.
3) Cement anchor.
4) Place anchor at hawse pipe by lightly pulling anchor cable and correct angle between shank and anchor. (Ref. drawing above right.) Cement them, and allow to dry for 1 or 2 hours.
5) Pull open the link at the other end of cable which is in the hull to attach a rubber band.
6) Put part C-1 through rubber bands and cement it to hull bottom. (drawing at right.)

This drawing shows the cables fitted to the hull. When cementing C-1, DO NOT wind cables around cable holders. Allow to dry for 1 or 2 hours. Wind cables around cable holders as shown only when C-1 is thoroughly dried.
Assembly of Deck No. 2

NOTE: If you plan to fit turning gear on gun turret, refer to p. 10 first.

1) Cement deck plate. (Use Adhesive.)
2) Cement parts as shown in drawing. (Use ABS Nichi Bond.)

After reels are assembled, wind usual black household thread round them. Cement them in place as shown.

Painting Hint:
Any boxes on deck should be painted with gray same as hull. Ballard beds should also be painted gray.

Painting Hint:
Top of the drill platform is made partly of wood plate. Paint that part with same color as deck. Air intake grilles E-11, E-12, E-27, E-18 and E-46 on ventilating structure, ventilator and drill platform should be painted with dark gray to get actual feeling.
Assembly of Deck No. 4
Fasten slide switch by 2x6 machine screws. Do not cement E-30 deck house, to make it removable.

Painting Hint
Paint area between lines with white.

11. Fitting Crane Girder and Deck's Stays
If you have made deck No. 4 removable, attach crane girder only and omit deck's stays.

Painting Hint
Dents of grating and grilles on air intakes (E-6, E-7) should be painted dark gray.

Fitting deck's stays A, B and C.

After fitting E-41 cement paravanes, as shown.
Fitting Parts on Quarter Deck

(Use ABS Nichi 800d.)

Before assembling flag staff, paste Decal of naval ensign to E-16. See page 5.

When deck No. 5 is fitted by tapping screws, handrails and flag staff should be fixed at slightly shifted places.

Arrangement of Deck and Superstructure

G.F.C.S. Type 94 and 12.7 cm H.A. Gun

One G.F.C.S. unit controls three H.A. guns, as shown in drawing. Fix them in such way that G.F.C.S. and all H.A. guns face in the same direction.

Fit small parts as shown in this arrangement.
Assembly of Turret Turning Gear for 46cm Gun

1. Assembly of Deck No.3 (Use Adhesive.)
   Cement D-22 to rear side of 46 cm gun turret No.3. D-22 and gun barrels (gun turret) cemented together can be turned independently. Face gun barrels as shown in drawing. Cement D-18 to D-22. Snap D-17 into post on the rear side of deck and fix it by D-11. Cement only D-12 and leave D-2, D-4 and D-17 movable. Carefully cement them so that D-4 can move easily in the arrow marked direction.

2. Assembly of Deck No.2 (Use Adhesive.)
   Cement D-25, D-21 and D-27 to rear side of No.1 gun turret and No.2 gun turret. Snap D-19 into post on the rear side of deck No.2 and fix it with D-29. Snap rods D-28 and D-3 onto arms D-25, D-27 and D-19 and fix them with D-11 and D-13. Carefully cement D-3 so that it moves easily in the arrow marked direction.

Use vegetable oil only for lubrication of sliding parts.
3. Assembly of Turret Turning Gear Box

- 8-teeth pinion (yellow)
- Grease gear well with vegetable oil.
- Maluchi electric motor RE-26
- Turning gear box
- Hammer 8-teeth pinion into motor. Hammer D-14 onto shaft of turning gear box and fix.

4. Fitting Gear Box

- Switch metal
- 26 x 7 self tapping screw
- Blue cord on motor
- Red cord on motor

5. Switch for Turning Gear

- Fit one H.A. gun on superstructure using J-17 and J-26 as shown in figure below right.
- Vinyl pipe
- Slide vinyl pipe onto connection.
- Make 4 equal parts.
- Cement D-26 on the rear side of superstructure. Fix turning gear box by 26 x 7 self tapping screws. Connect 6 cm blue cord and blue cord on motor to switch metal. Cement it as indicated.

- H.A. gun assembled with J-15
- Switch metal
- Sectional view
- Top side

- When H.A. gun is faced to port side (ON), 46 cm guns and 15 m range finder can be turned and searchlights can be turned on. When H.A. gun is faced to stern, the switch is open (OFF).
6. Wiring of Turret Turning Gear for 46 cm Guns

**Wiring Diagram**

- 6 cm blue cord
- Blue cord on motor
- Blue cord on UM 2(A) battery box
- 3 x 7 self-tapping screw
- 3 x 8 washer
- Red cord
- Battery box for UM 2(A)
- Blue cord
- 12 cm blue cord
- Cords for searchlight mini bulbs (8 pcs.)
- Red cord on motor
- 20 cm red cord

**Assembly of Switch for Searchlight**

- Switch metal D-10
- Cement D-10 to switch metal
- Connect cords to switch terminal and connect to terminal post on superstructure, as shown.
- Vinyl pipe
- 20 cm red cord

**Instructions**

Lay out cords to be used. Remove outer cover of cords about 1.5 cm on both ends. Twist wire together as indicated. Make a circle and connect it to terminal post by using 3 x 8 washer and 3 x 7 self-tapping screw.

Place UM 2(A) battery box, when used, in front of UM 1(A) battery box on the hull bottom.
7. Assembly of 15 m Range Finder Turning Gear

Face F-80 and D-15 in one direction.

Fit F-59 on square shaft and hammer in F-80 and D-15 at each end. Put the assembled unit through hole beneath superstructure and cement F-59 as shown.

How to fit superstructure

Do not cement as battery box is to be taken in and out through here.

When deck plate is fitted on hull, 2 arms are protruding beneath deck hole as shown. Superstructure should be put so that pins on turning arms (D-16) snap in holes on arms in hull.

8. Assembly of Turning Arms under Superstructure

Use Adhesive.

Put D-8 through post on superstructure and fix it by D-9. Snap D-20 and D-1 onto gear box arm and arm on square shaft respectively, fixing them by D-16 and D-9. Carefully apply cement not to put it on sliding parts.

Figure showing finished arrangements
1. Assembly of 46 cm Guns (Use Adhertic.)

1. Cement J-34 canvas frame.

2. Assemble gun barrels and fix them on floor plate.

3. Cement gun turret to floor plate and attach parts, as shown.

4. Assemble turret rings. Set G-8 in G-5. Then cement G-4. Apply Adhertic only to the indicated part. Be careful not to touch cement on any other place.

5. Turn gun turret over. Set D-7 gun support in place on floor plate. Cement turret ring unit by applying Adhertic as indicated.

Figure shows assembly of No.1 gun turret. No.2 and No.3 should be made same way.
2. Assembly of Auxiliary Guns

Use Adhesive:

- **H-1**
- **H-2**
- **H-17**
- **H-21**
- **H-16**

Cement H-21 in a way aux. gun turret can turn.

Apply Adhesive here.

**H-22**

DO NOT cement gun barrel H-2 to make it movable.

**E-45**

Fitting antenna on aux. gun No.1.

**E-31**

**E-32**

**E-33**

**E-34**

**E-31**

**E-33**

**E-34**

**E-45**

Life booms E-45 should be painted white and red should be put on them to form cross.

**D-6**

**H-18**

**H-19**

**H-11**

**H-11**

**Fitting antennas on aux. gun No.2.**

**Painting Hint**

Dents of grilles for air intakes H-18, H-19 and air outlet H-11 should be painted dark gray. Lens opening of H-7 range finder should be painted black or dark gray.
3. Bridge Assembly

(Paint ing Hint) Window frames on M-1 and M-3 should be painted gray, Paint grille of air intake dark gray, Round and square scuttles on bridge sides should be painted black.

To get good result in painting depressions such as rounded scuttles, dip brush in thinned lacquer and drop the lacquer into dents.
4. Assembly of 15 m Range Finder

(Use ABS Nichi Bond.)

(Painting Hint)
5. Assembly of Superstructure (Use ABS Nichi Bond)

Painting Hint: Screen inside grilles for air intakes and outlets should be painted dark gray.

25mm M.G. (triple)

G.F.C.S. Type 94

6. Funnel Assembly

Use Adhesive for assembling funnel body and ABS Nichi Bond for fitting pipes.

Pipe tips should be painted black same as funnel body.

After fitting 12.7 H.A. guns, cover 6 units on lower row only with shields J-13. Do NOT cement shields so that guns can be turned.
7. Searchlight Assembly (Use ABS Bond.)

(a) Searchlights to scale
   a. For scale modellers it is suggested to use searchlight F-53 which are to scale.
   b. If you plan to make searchlights to be lit, assemble searchlights F-1 containing miniature bulbs. Run cords through holes on C-24 searchlight deck. These cords must be run through 4 holes opened on superstructure top before cementing funnel to it, so that cords can be reached from beneath.

(Painting Hint)
Paint searchlight leases silver. Dents of grille for C-22 air intake for engine rooms should be painted dark gray.

8. Mast Assembly

(Painting Hint)
Carefully go on with cementing, as these gaffs and stays are difficult to assemble.

(Painting Hint)
Paint mast black up the same height above which funnel is painted black. F-56 No.13 radars should be printed silver.
Assembly of 10 m Range Finder

<Use ABS Nichi Board.>

Painting Hint:
Dents of grilles for B-10 and B-11 air intake and outlet should be painted dark gray. Lens opening on each end of range finder should be painted black.

Cut B-12 pillars for 25 mm M.G. sponson to fit in position.

Outlet of B-40 air extractor should be painted black.

Assemble B-21 G.F.C.S.s Type 54 to let them turn.

For detailed explanations of fitting angle of 12.7 cm H.A. guns, refer to page 9.
17. Arrangement of 25 mm M.G.s (triple) & 25 mm M.G.s (single)

- Single M.G.
- Triple M.G.
- Triple M.G. (with shield)

Handrail Assembly

Employ iron block or the like.

These handrails may be omitted.

Although assembly of handrails requires much time, if you patiently continue on the work, they will give a certain effect on your finished model.

1. Lay out handrail wire cut into pieces A-G as shown in drawing.

2. Observe equal heights of corresponding stanchions and lay blocks in margin allowing adjustment when fitting.

3. Insert 4 pieces of wire through hole of a pinned stanchion. Hammer it to fit an hole at the position to fit the first hole on corresponding deck plate.

4. Measure distances between the present hole and the next one. Fix stanchions (without pin) on wire at such a rate that distance between every 2 stanchions is 1.5 mm - 2mm. Therefore, space distance between two pinned stanchions (L-6) is 4 mm; between 2a and 2b stanchions, 24 mm; between 2c and 2d stanchions, 32 mm; between 2e and 2f stanchions, 38 mm; between 2g and 2h stanchions, 40 mm; between 2i and 2j stanchions, 42 mm; between 2k and 2l stanchions, 44 mm. Put them on the vertical pinned stanchion and hammer it fixed on wire at the position to fit into the next hole on some deck plate. Fiber stanchions, which are already set on wire, are equally spaced and hammered these fixed on wire. Thus every pinned stanchion and stanchions without pin should be fixed on handrail wire to fit the holes on deck plate.

Before applying cement scrape gold plating from areas to be cemented.

Adhesive also holds to felt.

green felt

Before applying cement scrape gold plating from areas to be cemented.

Assembly of Model Support (Use Adhesive.)

L-4

L-5

L-6

L-7

L-3