Pack 12 | Build Instructions

Your 1:200 scale model of the legendary battleship Bismarck is packed with intricate details which precisely replicate every aspect of this state-of-the-art warship. Each piece has been created using premium quality materials to bring maximum enjoyment during your complete build.

In your twelfth model pack, you will assemble:

STAGE 129: GEARBOX FOR THE FOURTH 38CM GUN TURRET
STAGE 130: MOTOR AND RAILINGS
STAGE 131: THE FOURTH CIRCUIT BOARD
STAGE 132: THE SECOND AIRCRAFT AND DETAILS
STAGE 133: CIRCUIT BOARD AND FUNCTION TESTS
STAGE 134: CRANES AND BOOMS
STAGE 135: THE BOATS
STAGE 136: STAND AND BATTERY BOX
STAGE 137: STAND AND ELECTRONICS
STAGE 138: STAND AND DECK DETAILS
STAGE 139: FITTING THE EYELETS AND THE RIG FOR THE ONBOARD CRANES
STAGE 140: THE REMOTE CONTROL

WARNING

Some parts are assembled using magnets. These magnets can cause serious injury if they are swallowed. Keep away from children. If you suspect a magnet has been swallowed, seek medical help straight away.
Advice from the experts

Spare screws are included with each part. Occasionally, you may be instructed to keep spare or unused screws for a later stage. Keep these spares in a safe place and label them correctly.

Please make sure you don’t mix up the screws. They look quite similar, but the threads do vary slightly. Using the wrong screws may damage the parts.

When securing parts together using multiple screws, fit each screw loosely to ensure all the parts are correctly aligned before gently tightening them firmly, but not overtight, in the order in which you placed them.

Your screwdriver can be magnetised by stroking it with a magnet (fridge magnet, etc.) enabling it to hold the screws and make assembly easier.

If a screw is tight going into a metal part, do not force it as you may shear the head off. Remove it and put a tiny smear of Vaseline, soap or light oil on the thread. That will lubricate it and make it easier to drive home.

During the course of this build, you will receive many pieces that you will assemble immediately – following the instructions in the corresponding stage – and other pieces that you should store safely to one side, for use in future assembly stages.
STAGE 129
GEARBOX FOR THE FOURTH 38CM GUN TURRET

COMPONENTS CHECKLIST

129-01: Elevation motor
129-02: Cog
129-03: Cog
129-04: Gear arm
129-05: Hub
129-06: Gear housing
129-07: Gear housing

129-08: Large cog
129-09: Left support bracket (L)
129-10: Right support bracket (R)
129-11: Shaft
129-12: Shaft (with splines)
129-13: Cable label

PB: Six 2 x 6mm PB screws
PB: Three 2.3 x 6mm PB screws
PB: Seven 2 x 4mm PB screws
PB: Three 1.7 x 6mm PB screws

Check the screws carefully so that you do not confuse them when you start to use them.

01. ASSEMBLING THE TURRET

Take the two stern upper deck sections 126-01/127-01 and place the assembly upside down on your worktop. Fit the large cog 129-08 in the recess in the upper deck part 126-01, as indicated.

The cog 129-08 has been fitted into the underside of the upper deck section 126-01 so that the triangle (arrow) points directly towards the stern.
Holding the cog 129-08 in place, carefully turn the deck assembly 126-01/127-01 over. Fit the fourth 38cm gun turret 128-04 on the barbette 128-02.

Hold all the parts in place, turn the deck assembly over again. Fix the turret 128-04 to the cog 129-08 with two PB 2.3 x 6mm screws, as shown.

02. FITTING THE GEARBOX AND ELEVATION MOTOR

Take the gear housing 129-07 and fit the cog 129-03 into the large hole in the housing.

Fit cog 129-02 into the gear housing 129-07. Have the hub 129-05 and a PB 2 x 6mm screw ready.

Fit the hub 129-05 into the central hole of cog 129-02 and fix in place with a PB 2 x 6mm screw.

Fit the gear arm 129-04 in the gear housing 129-07 so that the peg on cog 129-02 fits into the oval opening (arrow).
Fit the shaft **129-11** into the hole in cog **129-03**, as shown.

Fit the other half of the gear housing **129-06** on top of part **129-07**, as shown. You will need four **PB 2 x 6mm** screws.

Use the four **PB 2 x 6mm** screws to fix the two halves of gear housing **129-06** and **129-07** together.

Fit the gear housing **129-06/129-07** into the opening beneath the 38cm gun so that the gear arm **129-04** fits over the slot in the motor mount **128-11** (arrow).

Fit the shaft **129-12** through the holes in the end of the arm **129-04** so that it is anchored in the slot in the motor mount **128-11**, as shown.

Take the left gearbox bracket **129-09** and fix it to the gearbox housing **129-06** using a **PB 2 x 4mm** screw, as shown.
Turn the upper deck assembly round so that you can fit the right gearbox bracket 129-10. It is fixed to the gear housing 129-07 using a PB 2 x 4mm screw, as shown.

While supporting the deck from below, fix the broad tab of the gear bracket 129-09 to cog 129-08 with two more PB 2 x 4mm screws, as shown.

Fix the broad tab of the gear bracket 129-10 to cog 129-08 with two more PB 2 x 4mm screws.
Take the elevation motor 129-01 and the cable label 129-13. Remove the cable label from its backing and wrap it around the cable near the connector, as shown.

Take the elevation motor 129-01 and fit the motor shaft into the cog 129-03. Fix the motor in place on the gear housing 129-07 using two PB 1.7 x 6mm screws.

**Note:** The cable from the motor runs away from the stern (arrow).

**Completed work**
The gearbox and the elevation motor for the fourth twin gun turret have been fitted to the underside of the upper deck.
STAGE 130
MOTOR AND RAILINGS

COMPONENTS CHECKLIST
130-01: Motor
130-02: Cog
130-03: Railing (port)
130-04: Railing (starboard)
130-05: Two straight railings (A and B)
130-06: Cable label
PWB: Three 2.3 x 5mm screws

01. FITTING THE MOTOR

01
Place the motor 130-01 on your worktop. Fit the cable label 130-06 to the cable near the connector, as shown.

02
Fit the cog 130-02 on the shaft of the motor 130-01 and carefully press it down as far as it will go.
Fit the motor on the underside of the aft upper deck section 126-01 so that the screw holes in the tabs on the sides of the motor fit over the raised screw sockets on the deck, as indicated.

When the motor 130-01 is in the correct position, the cogs 130-02 and 129-08 engage with each other, as shown. Fix the motor to the underside of the deck with two PWB screws.

02. THE RAILINGS FOR THE UPPER DECK

Place the model on your work surface so that you can access the bow. Check how the railing 130-03 fits on the port side of deck section 1-01. Apply a little superglue to the five pegs of the railing and fix in place.

Glue railing 130-04 in place on the starboard side of the upper deck section 1-01.

Remove railing A from the frame 130-05 and bend it slightly at the end where there are two indented marks, as shown (see also next step).

Check how railing A fits on the starboard side of the upper deck 1-01. Apply a little superglue to the pegs on the lower edge of the railing and glue in place.
Completed work
The rotation motor has been fitted to the fourth 38cm tower. Railings have been fitted around the bow of the upper deck.

Take railing B from the frame 130-05 and bend it slightly at the indented marks (arrows). Check the fit on the port side of deck section 1-01.

Apply a little superglue to the pegs on the lower edge of the railing B and glue in place on deck section 1-01.
STAGE 131
THE FOURTH CIRCUIT BOARD

COMPONENTS CHECKLIST
131-01: Fourth circuit board
131-02: Cover for PCB (top)
131-03: Cover for PCB (bottom)
131-04: Connection cable with small PCB
131-05: Two contact plates
131-06: Cable
131-07: Cable
131-08: Three cable guides
PM: Eleven 2 x 4mm PM screws

01. ASSEMBLING THE CONNECTION CABLE AND CONTACT PLATES

Place the bottom of the cover 131-03 on your worktop. Fit the small PCB on the end of the connection cable 131-04 into the recess in the cover, as shown.

Fit the top of the cover 131-02 onto part 131-03. This holds the small PCB in place.
Position the assembled PCB cover **131-02/131-03** in the hull assembly, over the opening in keel section **83-01**. Note that the cable runs towards the bow (arrow).

Fix the PCB cover assembly **131-02/131-03** to keel section **83-01** using two **PM** screws.

Fit one of the contact plates **131-05** over the circular opening on the starboard side of the keel section **83-01**.

Fix the contact plate **131-05** to the keel section **83-01** using two **PM** screws.

Position the second contact plate **131-05** over the other circular opening in keel section **83-01** and fix it in place with two **PM** screws.

Make sure that the cables **93-04** and **93-05** run to the sides, and the plug at the end of cable **131-04** are clear of the area outlined in white.
02. Installing and Connecting the Circuit Board

Fit the circuit board **131-01** into the hull assembly so that the screw holes in the four flanges align with raised screw sockets in keel section **83-01**. Note the orientation of the box.

Fix the circuit board **131-01** in place on the keel section **83-01** using four **PM** screws.

Identify the port on the circuit board **131-01** numbered 6 (circled). Connect cable **131-04** to port 6, as shown.

Identify ports 1 and 2 (circled). Connect the cables **93-04** and **93-05** to the port. The cables are held in place by a cable guide (white arrow).

Connect one end of cable **131-06** to port 3 (circled) on circuit board **131-01**, as shown. This is the shorter of the two cables supplied with this Stage.

Connect the other end of the cable **131-06** to port 12 of the circuit board **119-01**, which is under the rear superstructure (circled white).
Connect one end of cable **131-07** to port 4 (circled white) on circuit board **131-01**, as shown.

The first cable guide **131-08** is fitted to the tenth keel section **95-01**, on the port side. Note that the opening in the guide is towards the centre of the hull (arrow). Run cable **131-07** diagonally through the cable guide towards the stern of the hull.

Fit the second cable guide **131-08** to the upper port hull section **107-01**, with the opening facing upwards. Run cable **131-07** through the cable guide and towards the stern.
Completed work
A connection cable, two contact plates and the fourth circuit board have been fitted to the hull. Various cables have been arranged and connected.

Fit the third cable guide 131-08 to the upper port section of the hull 116-01, again with the opening facing upwards. Run cable 131-07 through this cable guide. The connector at the end of this cable is not connected yet.

Position the aft superstructure on the hull assembly as shown in the photo. It is not fixed in place at this Stage.
STAGE 132
THE SECOND AIRCRAFT AND DETAILS

COMPONENTS CHECKLIST
132-01: Front strut
132-02: Rear strut
132-03: Two side struts
132-04: Aircraft fuselage (upper)
132-05: Aircraft fuselage (lower)
132-06: Wings
132-07: Engine
132-08: Propeller
132-09: Right-hand float
132-10: Left-hand float
132-11: Details for cockpit (I - K)
132-12: Cockpit canopy
132-13: Details for the fourth 38cm gun turret (A – C)
132-14: Anchor chain guide
132-15: Two quadruple mount AA guns
132-16: Cover plate (D) and base of ensign staff (E)
132-17: Support for ensign staff
132-18: Propeller shaft
132-19: Catapult launch carriage
132-20: Seating for the AA guns
132-21: Two railings (II)
132-22: Two railings (III)
132-23: Ensign staff aft support
132-24: Ensign staff
132-25: LED and cable
132-26: Fibre optic cable
132-27: Cable label
Two PB 2 x 4 mm screws

01. FITTING THE GUIDE FOR THE Stern ANCHOR CHAIN

Place the model on your work surface. Carefully move the anchor chain 124-09 to one side, away from the cable reel 124-05, as shown.

Fit the cable guide 132-14 on the gear housing and run the anchor cable 124-09 back into the cable reel and down the channel in the guide (arrow).
02. DETAILS FOR THE FOURTH 38cm TURRET

01. Separate the parts A and B from the frame 132-13. They are all attached to the barbette of the fourth main gun turret.

02. Rotate the fourth gun turret 128-03 so that you can access the port side of the barbette 128-02. Glue the first part A to the port side of the barbette as shown.

03. Turn the gun turret 128-03 so that you can glue the second part A to the starboard side of the barbette 128-02.

04. Glue the two parts B in place on the forward side of the barbette 128-02. You will need to turn the turret to access this side.

03. ENSIGN STAFF AND STERN LIGHT

01. Take part C from frame 132-13 and the ensign staff 132-24. Note the hole in the side of the staff (arrow). Glue part C to the end of the ensign staff that is furthest from the hole.

02. Take the fibre optic cable 132-26 and tie a knot a couple of centimetres from one end, as shown. Pull the knot tight.
Cut off the short length of fibre optic cable **132-26** near the knot, leaving the knot on the longer length of cable.

Thread the long end of the fibre optic cable **132-26** into the hole in the ensign staff **132-24**. Push the cable through so that it comes out at the open end.

Remove the base **E** of the ensign staff from the frame **132-16**. Glue it in place at the end of the aft upper deck section **127-01**. Thread the end of the fibre optic cable **132-26** through the hole at the end of the upper deck section **127-01** just inside the base **E** (arrow). You will need the ensign staff support **132-17**.

Fit the central eyelet in the support **132-17** over the top of the ensign staff **132-24**. Apply a little glue to the pegs on the ends of the support.

Glue the pegs of the support **132-17** into the two recesses in upper deck section **127-01**, as shown.
Take the ensign staff aft support 132-23 and bend it twice at right angles, as indicated by the dotted lines.

Thread the large eyelet on the aft support 132-23 over the top of the ensign staff 132-24. Glue the two long pegs at the base of the support into the recesses in base E, as shown.

Carefully turn the upper deck section 127-01 over. Run the fibre optic cable 132-26 through the recesses in the underside of the deck. Cut the end of the cable so that it is flush with the inner edge of the rectangular recess (arrow).

Attach the cable label 132-27 to the end of the LED cable 132-25 near the connector, as shown.

Take the LED cable 132-25 and fit the LED in the rectangular recess next to the end of the fibre optic cable 132-26. The two parts should touch each other.

Take the cover plate D from frame 132-16 and fit it over the LED on the underside of upper deck section 127-01. Fix it in place with a PB screw.
04. FITTING RAILINGS ON THE UPPER DECK

**Note:** Roman numerals II and III are engraved on the ends of the frames 132-21 and 132-22. The ends of the railings near the numerals are the forward ends, pointing towards the bow (circled).

Fit the first railing from frame 132-21 to the port side of the upper deck, near the first 38cm gun turret. The end that was next to the II in the frame is on the left in the photo, so it is pointing towards the bow. Glue the feet in place.

Fit the second railing from frame 132-21 in the same place on the starboard side of the upper deck. The end that was next to the II in the frame is on the right in this photo. Glue in place.

Fit the two railings from frame 132-22 on the upper deck, on either side of the second 38cm gun turret. The ends that were next to the III in the frame are on the right in the photo. Glue in place.

05. TWO QUADRUPLE MOUNT AA GUNS AND TWO 2cm AA GUNS

Take one of the seating groups from frame 132-20. First bend the three seats three times at right angles (indicated by dotted lines 1, 2 and 3). Then bend the two small railings upwards (dotted line 4).

Identify the components of the two identical frames 132-15: right (R) and left (L) pairs of barrels, the base F, the mount G and a 2cm AA gun H.
Separate the two pairs of barrels L and R and the mount G from frame 132-15. Glue the left-hand pair of barrels to the mount as shown.

Glue the right-hand pair of barrels to the other side of the mount G.

Take one of the seating groups 132-20 and glue it in place beneath the mount G. Take the base F from frame 132-15 and glue it to the underside of the seating group. Repeat steps 1-5 to make the second quadruple AA gun.

Identify the two 3.7cm AA guns 106-07, which were fitted to the searchlight platform in Stage 106. Taking care not to damage the parts, remove these two guns and move them down to the upper mast deck. Glue in place, as shown.

The two 2cm quadruple AA guns 132-20 can now be fitted on the searchlight platform. Remove any excess glue from the holes in the deck if necessary, and glue in place.

Remove the two 2cm AA guns H from the frames 132-15. Glue them in place on the deck covering of the searchlight platform 63-05, beside the funnel.
06. ASSEMBLING THE SECOND AIRCRAFT

01. Take the two halves of the fuselage 132-04 and 132-05. Apply glue to the three pegs on part 132-04 and fix the two pieces together.

02. This shows the fuselage 132-04 and 132-05 assembled. Fit the propeller shaft 132-18 into the bore of motor 132-07, as shown.

03. Fit the propeller 132-08 on to the propeller shaft 132-18. Do not glue: the propeller can be turned. Apply some super glue to the tip of the fuselage as indicated.

04. Fix the engine 132-07 on to the front of the fuselage. The control lever I, the pilot seat J and the machine gun K from the frame 132-11 are glued in place in the cockpit, as shown.

05. Glue the canopy 132-12 in place over the cockpit. Apply some superglue to the two pegs on the top of the wings 132-06 as shown.

06. Glue the wings 132-06 to the underside of the fuselage 132-05. Make sure that the machine guns on the wings (arrows) are pointing forwards.
Study the photograph carefully to identify parts 132-09 and 132-10. Glue the first side strut 132-03 to the right float 132-09 and the second one to the left float 132-10, as shown.

Glue the front and rear struts 132-01 and 132-02 to the two floats 132-09 and 132-10. The small pegs on part 132-01 face forward.

Apply superglue to the tips of the side, front and rear struts and glue them to the underside of the wings 132-06.

Check the fit of the catapult carriage 132-19. Three tabs on part 132-19 fit into slots on the underside of the wings and fuselage. Glue in place.

**Completed work**

The ensign staff has been fitted with a fibre optic cable and fixed to the stern; four railings have been fitted to the upper deck; two quadruple mount AA guns have been assembled and fixed in place; and the second aircraft has been assembled.
STAGE 133
CIRCUIT BOARD AND FUNCTION TESTS

COMPONENTS CHECKLIST
133-01: Fifth circuit board
133-02: Two railings (IV)

PB: Five 2 x 6mm PB screws

01. CONNECTING THE NEXT CIRCUIT BOARD

Carefully turn the aftmost upper deck sections upside down, taking care not to damage the components that are fitted to it. Position the fifth board 133-01, as indicated. Make sure it is the right way round: there is a ‘D’ on one corner of the board (circled).

Fix the fifth board 133-01 to the two upper deck sections 126-01 and 127-01 using four PB screws.
Run the cable labelled **D-3** from front to aft under the circuit board **133-01**, as shown in the photo.

Connect the plug of the cable marked **D-3** into the corresponding socket on the board **133-01**, labelled **3** (circled).

Take the cable labelled **D-4** and run it under the corner of the circuit board **133-01**. Draw the cable through to the aft side of the circuit board.

Plug the cable into the socket marked **4** (circled) on the circuit board **133-01**. Ensure that the plugs are fully pushed into the sockets. (This applies to the following steps as well.)

Run the cable labelled **D-5** to the aft, under the circuit board **133-01**. Plug it into the socket marked **5**.

Run the cable labelled **D-6** forwards from the LED at the stern and under the corner of the circuit board. Plug it into the socket marked **6** at the side of the circuit board **113-01** (circled).
Position the aft upper deck structure near your model so you can fit the cables. Check the fit of the connector on the end of cable **131-07** in the four-pin, unnumbered port on circuit board **133-01** (circled in white). Then unplug the connection before testing the aft section.

The cables labelled **D-7** and **D-8**, both of which are connected to the stern anchor mechanism, are fitted into the sockets marked **7** and **8** on circuit board **133-01**.

Fit the two aftmost upper deck sections on to the hull structure. Ensure that all parts, including the rudders and propellers, are free to move. Switch the battery box “On” and the turret **128-03** initializes. It rotates right, then stops and returns to the centre position.

Set the battery box switch **4-07** to “Off”. Connect the plug of the tester cable **18-02** to the three-pin, unnumbered socket of the circuit board **133-01** (circled). Ensure that the batteries are new/fully charged.

When the initialization is complete, press the “S1” button (inset) on the tester **18-01**: this will run the forward turret test. All three turret functions are carried out simultaneously. Press the button again to end the test.
01
Press the “S2” button: the stern anchor chain 124-09 raises and lowers very slightly, and the three propellers turn. Press the button again to end the test.

02
Place the two aft upper deck sections on the hull as shown. Then set the tester to “On”. Press the button “S1” on the tester: this will test all three functions of all four main gun turrets simultaneously. Press the button again to end the test.

03
When you press button “S4” on the tester, the two rudders 123-06 move from side to side. This is the last test of the fifth board. Set the tester to “Off” and remove the tester cable 18-02 from the fifth circuit board.

04
When you press the “S3” button on the tester, the stern light (fibre optic 132-26) will light up. As before, pressing the button again ends the test.

05
Reconnect the connector on the end of cable 131-07 in the four-pin, unnumbered port on circuit board 133-01 as described in step 9 on the previous page. Remove the aft superstructure from the hull and connect the tester cable 18-02 to the socket marked 5 (circled) on the circuit board 131-01, inside the hull.

06

03. TESTING THE ELECTRONICS
Note: Manually position the gun barrels of all six twin turrets so they are pointing upwards before the test.

Then press the “S2” button (inset): various function tests will run at the same time. First, all six 15cm turrets will swing back and forth at the same time.

The bow anchors will be dropped a little and then raised again.

Then the stern anchor cable rises and falls; the three propellers turn back and forth.

End the test by pressing the “S2” button again.
Press the “S3” button on the tester (inset): all the lights on the model come on simultaneously – the bow light, stern light, the two side lights, the lights on the navigation bridge and the admiral’s bridge and all seven searchlights.

Press “S3” again to put the lights out.

When the “S4” button on the tester (inset) is pressed, two tests are carried out at the same time:

All three rangefinders rotate.

At the same time, the two rudders swivel left and right.

End the test by pressing the “S4” button again.
04. FITTING THE RAILINGS

Separate one of the two railings from frame 133-02. Note which end of the railing is next to the Roman numeral IV on the frame. Make sure that the end of the railing that was next to the IV points towards the bow, i.e. to the right in the photo. Glue the railing to the starboard side of the upper deck, continuing the line of railings from part 132-22.

The second railing 133-02 is fitted in the corresponding area on the port side of the upper deck. Here, too, the IV end of the railing points towards the bow, i.e. to the left in the picture.

Completed work
The fifth circuit board is fitted and cables are connected; all electronics so far fitted in the model have been tested; two more railings have been fixed in place.
STAGE 134
CRANES AND BOOMS

COMPONENTS CHECKLIST

134-01: Two crane booms
134-02: Two crane support parts
134-03: Two hydraulic rods
134-04: Two frames with crane parts (1 to 7)
134-05: Two frames with block and hook parts (8, 9)
134-06: Two crane bodies
134-07: Two bow booms
134-08: Two stern booms
134-09: Parts for the bow booms
134-10: Parts for the stern booms
134-11: Parts for the bow booms
134-12: Parts for the stern booms
134-13: Two screw protectors
134-14: Safety rails
134-15: Cover for catapult tracks
134-16: Two catapult platforms
134-17: Two railings (V)
134-18: Two railings (VI)
134-19: Two railings (VII)

You will also need the aircraft assembled in Stage 3 and the catapult tracks supplied with Stage 4.

01. ASSEMBLING THE TWO AIRCRAFT CRANES

Take one of each of the frames 134-04 and 134-05 and identify the numbered parts, as shown here.

Separate parts 1, 2, 3 and 6 from frame 134-04. Glue parts 1 and 2 on to part 3 as shown.
Glue part 6 across the free ends of parts 1 and 2 as shown. Have one of the crane bodies 134-06 ready.

Fit the assembly of parts from step 3 into the crane body 134-06, as shown.

Fit part 4 from frame 134-04 on to the crane body 134-06 as indicated. When you are happy with the fit, glue it in place. Remove part 5 from frame 134-04.

Turn the crane body 134-06 over and glue the spindle of part 5 into the hole in the crane body, as shown. Note that the end of the spindle with a recess is the end that fits into the crane body.

Align the crane support 134-02 and hydraulic rods 134-03 as shown in the photo. They fit together without any glue to form a hinged assembly.

Separate part 7 from frame 134-04 and insert the two pegs (red arrows) into the recesses of the support 134-02. Make sure that you fit it the right way round (see blue arrow).
Take one of the crane booms 134-01 and fit the two pegs into sockets in the crane body 134-06 (arrows).

Insert the pegs on the outer sides of part 134-02 (blue arrow) and the ends of the hydraulic rods 134-03 (red arrows) into the holes in the crane body 134-06. The arrows indicate where the parts are inserted.

The first crane is almost complete. Separate the two block parts 8 and 9 from the frame 134-05 and glue them together to form a block (inset).

Repeat the previous steps to make a second crane assembly. The two cranes are completed in Stage 136.

02. BOW BOOMS, STERN BOOMS AND PROPELLER PROTECTION

Prepare the parts for the first boat boom: you will need one bow boom 134-07, one of the two identical parts from frame 134-09 and the bracket labelled L1 from frame 134-11.

Glue the part from frame 134-09 to the bow boom 134-07 at the point where it changes diameter. Fit the peg at the end of the bow boom into the hole in part L1 (without any glue).
Place your model on your work surface so you can access the port side. Glue the two brackets L2 and L3 from frame 134-11 to the port side of the hull level with the first 38cm twin turret, as shown.

Bracket L1 fits into a recess in the hull a little further forward. Glue the end in place, making sure that the bow boom 134-07 can swing in and out, as indicated.

Assemble the starboard boom in the same way. The second part from frame 134-09 is glued to the second boom 134-07. A pin at the end of the spar fits into the recess of the bracket R1.

Turn the model round. The two brackets R2 and R3 from frame 134-11 and bracket R1 are glued in place on the starboard side of the hull, as shown.

For the stern boom on the port side, take parts L1 and L2 from frame 134-12. A peg on the stern spar 134-08 fits in the hole in bracket L1 and one of the parts from frame 134-10 is glued to the spar.

Glue parts L1 and L2 to the port side of the hull, towards the stern, as shown. The stern boom 134-08 also remains movable.
For the stern boom on the starboard side, take parts R1 and R2 from frame 134-12. A pin on the stern boom 134-08 fits in a socket in part R1 and the second part from frame 134-10 is glued to the boom.

Glue parts R1 and R2 to the starboard side of the hull, towards the stern, as shown. The stern boom 134-08 should still swing outwards.

Fit the side screw propeller protectors 134-13. The first is glued to the stern area on the starboard side of the hull.

The second side propeller protector 134-13 is fitted in the same location on the port side of the hull.

Take three safety rails labelled 01 and two safety rails labelled 02 from frame 134-14 and glue them to the starboard side of the upper deck, near the first 38cm twin turret.

Still working on the starboard side, glue two safety rails 03 on either side of the twin 15cm turret in the midship area.
On the port side, the safety rails are fitted in the same way. Towards the bow, glue three safety rails 01 and two safety rails 02 in place, as shown.

Move to the stern area on the starboard side. Take three safety rails labelled 01, 02 and 04 and glue them in place, as shown.

In the midship area, glue two safety rails 03 in place, as shown.

Towards the stern, glue three safety rails 01, 02 and 04 in place.

The first railing from 134-17 fits on the port side, continuing the line of railing 133-02. Note the end of the railing next to the Roman number V and fix the railing in place with this end running towards the bow (to the left in the photo).

A railing from frame 134-18 continues the line of the railing 134-17. Fix in place, ensuring that the end that was next to the Roman number VI runs towards the bow (to the left in the photo).
**04. ASSEMBLING THE CATAPULTS**

A railing from frame 134-19 continues to the aft of railing 134-18. The end next to VII on the frame also points towards the bow (to the left in the photo).

Moving to the starboard side, fix the second railing from frame 134-17 in place with the V end running towards the bow (to the right in the photo).

The second railing from frame 134-18 continues the line of railing 134-17. The VI end is on the right in the photo.

Finally, the railing 134-19 is glued in place, continuing the line of railing 134-18, with the VII end on the right in the photo.

Take the catapult platform 1 from the frame 134-16. Following the numbered order of the dotted lines, bend the part three times at right angles.

Bend platform 1 at right angles along the dotted line 4. Here the part has been turned the other way up so that you can see how the post at the end of the platform fits into an eyelet (arrow). Bend the small tab as shown (dotted line 5).
Take the second catapult platform from the frame **134-16**. Bend the part in a similar way to make a platform that is a mirror image of the first platform, as shown.

Identify the position for catapult platform **2** on the port side, behind the funnel. Two pegs on the platform fit into holes in part **102-02** (arrows). Glue the pegs in place.

Fix the catapult platform **1** in place behind the funnel on the starboard side of the model. Again, two pegs on the platform are glued into the holes in part **102-02**.

Take the catapult tracks **4-01/4-03**, supplied with Stage 4. Apply a little glue to the two pegs on parts **4-03** and fix them to part **102-02** behind the funnel.

Take the catapult track cover **134-15** and bend the ends of the four small pegs down at right angles (circled). Bend the large flaps at each end upwards at a 45° angle, as shown.

Place the cover **134-15** over the catapult tracks: the two front pegs are glued into sockets in part **24-02**. The rear pegs are NOT glued in place: they rest in grooves in the deck covering **102-01**.
The first aircraft is placed on the starboard catapult: four small pegs on the launch carriage **3-17** fit on either side of the catapult track **4-01**. The arrows indicate two of these pegs. The catapult track can be extended, as indicated by the double-headed arrow.

The second aircraft is fitted on the port catapult in the same way.

**Completed work**

You have started to assemble the two aircraft cranes; the four booms and the two propeller guards have been fitted; the two catapults and their platforms have been attached to the model; and the two Arado Ar aircraft are ready to launch.
COMPONENTS CHECKLIST

135-01: Two admiral's boats (hulls)
135-02: Two decks for admiral's boats
135-03: Two boat interiors
135-04: Motor yawl (hull)
135-05: Deck for motor yawl
135-06: Yawl interior
135-07: Four transportation boats (hulls)
135-08: Four deck parts for transportation boats
135-09: Four boat interiors
135-10: Three railings
135-11: Four bench inlays (throws)
135-12: Two cutters + two yawls
135-13: Four bollards + two cleats
135-14: Eight bollards
135-15: Four roller fairleads
135-16: Eight safety rails
135-17: Six safety rails
135-18: Two railings (VIII)
135-19: Two railings (IX)

01. ASSEMBLING THE BOATS

Take one of the boat interiors 135-09 and fit it in one of the transportation boat hulls 135-07 as indicated.

With the interior 135-09 in position in the hull 135-07, fit one of the deck pieces 135-08. When you are happy with the fit, glue it in place.
With the deck piece 135-08 glued in place, take two of the safety rails from frame 135-16.

Repeat these four steps using the remaining sets of parts to build four identical transportation boats 135-07, as shown in the photo.

Fit the yawl on top of the cutter and glue in place.

Take one larger and one smaller hull from frame 135-12 and a larger and smaller bench inlay from frame 135-11. Fit the larger inlay into the cutter hull and the smaller one into a yawl hull. Glue the inlays in place.

Repeat the previous two steps to build another yawl and cutter.
Take a boat interior 135-03 and fit it into the hull of an Admiral’s boat 135-01. Check the fit of the deck section 135-02 and apply a little glue to the contact point to fix it in place.

Identify the different types of railing in frames 135-10 and 135-17.

Take a railing 1 from frame 135-10 and two safety rails A from frame 135-17. Glue them in place on the front of the deck 135-02, as shown. Make an identical Admiral’s boat 135-01.

Next, assemble the motor yawl. Fit the interior 135-06 into the hull part 135-04.

With the interior 135-06 fitted into the hull 135-04, check the fit of the deck section 135-05. Apply glue to the contact points and fix in place.

Take a railing 2 from frame 135-10 and two safety rails B from frame 135-17. Glue them in place on the front of the deck part 135-05.
02. POSITIONING THE BOATS

The four transportation boats 135-07 fit on the boat supports on the central hangar, as shown.

The two yawl/cutter assemblies fit on top of the port hangar, next to the funnel.

The first Admiral’s boat 135-01 fits on the outer brackets of the port hangar, beside the yawl/cutter assemblies.

The motor yawl 135-04 fits on top of the starboard hangar, with the second admiral’s boat 135-01 on the brackets.

03. BOLLARDS, CLEATS AND RAILINGS

Take two bollards 1 and a cleat 2 from frame 135-13. Glue them in place on the port side next to the eighth 15cm gun turret.

On the starboard side, fit the other two bollards 1 and the second cleat 2 from frame 135-13.
Take four bollards from frame 135-14 and two roller fairleads from frame 135-15. Glue them in place on either side of the main gun turret on each side of the upper deck, as shown.

The four remaining bollards 135-14 and the two remaining roller fairleads 135-15 are fixed in place on each side of the upper deck, towards the stern.

The first railing 135-18 continues the line of railing 134-19 on the port side. The end of the railing in the frame next to the Roman numeral VIII runs towards the bow.

The second rail 135-18 is fitted in the same way on the starboard side, as shown.

The two railings 135-19 are glued on either side of the aft deck. The end of the railing in the frame next to the engraved Roman numeral IX runs towards the bow.

Completed work
The boats have been assembled and fitted deck and the upper deck railing is complete.
STAGE 136
STAND AND BATTERY BOX

COMPONENTS CHECKLIST
136-01: Body of forward end of stand
136-02: Battery compartment base
136-03: Support column
136-04: Base plate
136-05: Bracket
136-06: Two parts of side arms (1)
136-07: Two parts of side arms (2)
136-08: Two parts of side arms (3)
136-09: Two parts of side arms (4)
136-10: Eight 2cm flak guns
136-11: Battery box
136-12: Cross bracing strut
136-13: Lengthways bracing strut
136-14: Cable
136-15: Latch
136-16: Eight cushion pads

Five 2 x 6mm PM screws
Twelve 2.3 x 6mm PB screws
Three 2.6 x 4mm KB screws
Seven 2.6 x 6mm PB screws
Three 2.3 x 16mm PB screws

NOTE:
There are extra 2.6 x 6mm screws supplied in this pack. Keep these screws for use in Stage 137.

01. STARTING TO ASSEMBLE THE STAND

Take the base plate 136-04 and place it upside down on your worktop. Remove a cushion pad 136-16 from its backing and stick it in one of the circular recesses in the base plate.

Stick three more cushion pads 136-16 in the remaining three recesses on the underside of the base plate 136-04. Keep the remaining pads 136-16 in a safe place.
Turn the base plate **136-04** over and check the fixing point for the bracket **136-05**. Note the orientation of the arrow (circled). Fix it in place with two 2.3 x 6mm **PB** screws.

Fit the clasp **136-15** into the bracket **136-05**, as shown. The clasp clicks into place, as shown in the inset photograph. Put the assembly aside until it is needed again in step 24.

Take the battery box **136-11** and place it on the battery compartment base **136-02** as indicated by the arrow. Note the orientation of part **136-11**.

Fix the battery box **136-11** to the battery compartment base **136-02** using two 2.6 x 4mm **KB** screws.

Insert four C-type batteries into the battery box **136-11** as shown (with + and – terminals positioned as indicated inside the box).

Take the two cables attached to the battery box **136-11** and run them behind the small vertical tab (see arrow).
Take the body of the stand 136-01 and position it upside down on your work surface next to the battery box, as shown. Run the connector on the end of the cables through the circular opening in part 136-01.

Take one of the parts of the side arm 136-06, which has a “1” marked on it at one end (arrow). Run the cables from the battery box 136-11 along the side arm part.

Take one of the parts of the side arm 136-08, which has a “3” marked at one end. Fit it over the first part 136-06. You will need a 2.3 x 6mm PB screw.

Fit the two halves of the side arms 136-06 and 136-08 together with a 2.3 x 6mm PB screw.

Fit a side arm part 136-07 (“2”) next to the side member half 136-06. Run the cable along part 136-07. Take a side arm part 136-09 (marked “4”) and two 2.3 x 6mm PB screws.

Fit the side arm part 136-09 over part 136-07 and fix them together with two 2.3 x 6mm PB screws. The battery box 136-11 cable extends from the end of the arm as shown.
15. Fit the end of the assembled arm into the circular opening in the stand body 136-01, as shown. You will need a 2.3 x 16mm PB screw.

16. Fix the assembled end of the side arm (parts 136-06 / 136-08) to the stand body 136-01 with the 2.3 x 16mm PB screw.

17. Now assemble the second side arm: fit the next two parts 136-06 (1) and 136-08 (3) together as indicated.

18. Fix the two side arm parts 136-06 and 136-08 together using 2.3 x 6mm PB screw.

19. Fit the second side arm part 136-07 (2) on the end of part 136-06. Fit the second part 136-09 (4) over part 136-07.

20. Fix the side arm parts 136-07 and 136-09 together using two 2.3 x 6mm PB screws.
21 Fit the ends of parts 136-06/136-08 through the second round opening in the stand body 136-01 and fix it in place with a 2.3 x 16mm PB screw.

22 Turn the stand assembly the right side up and fit the support column 136-03 in the central recess of the stand body 136-01. There is a peg on the column (arrow), which should be positioned as shown.

23 Holding the support column 136-03 in place, turn the stand upside down again. Fix the column in place with three 2.3 x 6mm PB screws, as shown.

24 Take the base plate 136-04 and fit it on the underside of the stand body 136-01 as indicated.

25 Fasten the base plate 136-04 to the stand body 136-01 using six 2.6 x 6mm PB screws.

26 Turn the stand the right way up and slide the battery compartment 136-02 into the opening in the stand body 136-01. It clicks into place.
02. FITTING EIGHT 2cm FLAK GUNS

Remove four 2cm flak guns from frame 136-10. Glue them in place in recesses in the decks, as indicated.

The remaining four 2cm flak guns from frame 136-10 are glued in place on and around the forward superstructure, as shown.

03. ADDING ELECTRONIC CONNECTIONS

Carefully remove the two aft deck section assemblies, as shown. Work will start on the underside of the aft superstructure, indicated by the white arrow.

Carefully remove the plug of cable C-8 from port 8 of circuit board 119-01. Take the cable extension 136-14 and connect it to the plug on the end of cable C-8.

Connect the other end of the cable extension 136-14 to port 8 of the circuit board 119-01.

Now remove the forward superstructure assembly from the hull. Remove the two screws from the magnet holders 90-02 (B), taking care to ensure that the holders and the hull section remain in place. The red arrows indicate the empty holes.
Completed work
The stand has been partially assembled. Eight 2cm flak guns have been fitted, together with two braces for the hull.

Take the lengthways bracing strut 136-13 and fit the screw holes in the two tabs over the holes in the two brackets B, as indicated.

Fix the brace 136-13 in place with two 2 x 6mm PM screws, as shown. These screws replace the original ones.

Identify the fixing points for the cross bracing strut 136-12: it fits over the gear box in the aft section of the hull. Remove the front PM screw from the two connectors 112-02 and 114-02. Fit the bracing strut 136-12 in place so that the screw holes are aligned.

Fix the cross bracing strut 136-12 in place to the two connecting pieces 112-02 and 114-02 using two 2 x 6mm PM screws. Again, these longer screws replace the original ones. Replace all the superstructures and deck sections.
STAGE 137
STAND AND ELECTRONICS

01. ASSEMBLING THE REAR OF THE STAND

NOTE:
The 2.6 x 6mm screws listed below were supplied in a separate bag with Stage 136. You will find that there are seven 2.6 x 5mm screws in the blister pack with this Stage, which are not needed.

COMPONENTS CHECKLIST

137-01: Body for aft part of stand
137-02: Support column
137-03: Base plate
137-04: Connector
137-05: Speaker casing
137-06: Fixing plate
137-07: Switch plate
137-08: Speaker
137-09: Switch circuit board
137-10: Connection cable
137-11: Circuit board for stand
137-12: Cable
137-13: Railings and ladders

Seven 2.3 x 6mm PB screws
Nine 2.3 x 4mm PB screws
Six 2.6 x 6mm PB screws
Three 2.3 x 16 mm PB screws

01. Place the body of the aft part of the stand 137-01 upside down on your worktop. Fit the speaker 137-08 over the holes in the recess. Note the alignment of the cable.

02. Fit the speaker casing 137-05 over the speaker 137-08 as shown. You will need four 2.3 x 6mm PB screws.
Check that the screw holes in the tabs on the speaker casing align with screw holes in part 137-01 and that the arrow is aligned as shown (circled). Fix in place with four 2.3 x 6mm PB screws.

Position the switch plate 137-07 at the other end of the stand body 137-01, as shown.

Fit the fixing plate 137-06 over the switch plate 137-07. Fix the fixing plate in place with two 2.3 x 4mm PB screws.

Turn the stand body 137-01 the right way up. Check how the support column 137-02 fits into the central recess on the body. The arrow indicates how a peg on the column fits into a hole in the body. At the same time, the screw holes should align.

Holding the support column 137-02 in place, turn the stand body 137-01 upside down again. Fix the two parts together with three 2.3 x 6mm PB screws.

Turn the stand assembly right way up and insert the connector 137-04 into the support column 137-02. A peg on part 137-04 fits into a notch on part 137-02 (red arrows).
Push the connector 137-04 into the support column 137-02 so that it clicks into place, as shown.

Take the stand circuit board 137-11 and fit it into the underside of the stand body 137-01. Ensure that you position it in the orientation shown.

When you have it in the correct position, with the screw holes aligned, fix the circuit board 137-11 in place on the underside of the stand body 137-01 using four 2.3 x 4mm PB screws.

Take the cable 137-12 and insert one of its two plugs into the port on the switch circuit board 137-09, as shown.

Turn the switch circuit board 137-09 over and position the spring on the underside of the board over the On/Off switch 137-07 as indicated.

Fix the switch circuit board 137-09 in place on the stand body 137-01 with two 2.3 x 4mm PB screws.
Turn the stand body 137-01 the right way up. Fit the two side arms that are fixed to the forward end of the stand into the openings in part 137-01, as indicated.

Take the connecting cable 137-10 and thread the connector into the connection part 137-04 and down through the support column 137-02, as shown.

Turn the stand over again and fix the ends of the two side arms 136-07/136-09 to the stand body 137-01 using two 2.3 x 16mm PB screws.

The board with connecting points on the end of the connecting cable 137-10 fits into the recess in the connector 137-04.

Turn the stand over and connect the four cables 137-08, 137-10, 136-11 and 137-12 into the appropriate ports in the circuit board 137-11, as shown.

Take the base plate 137-03 and fit it on the underside of the stand body 137-01, as indicated.
Gently push the base plate 137-03 into place on the stand body 137-01. Stick the four remaining cushion pads 136-16 in the recesses on the underside of the base plate.

Fasten the base plate 137-03 in place on the underside of the stand body 137-01 using six 2.6 x 6mm PB screws.

02. FITTING THE LADDERS AND RAILINGS

Glue the ladders 1, 2 and 3 from frame 137-13 in place on the central hangar 94-01, as shown.

The two railings 4 and 5 from frame 137-13 are glued to the superstructure deck 21-01 on the port side of the forward superstructure. Note the position of the bent end.

The railings 6, 7 and 8 from the frame 137-13 are glued in place in the corresponding points on the starboard side of the front superstructure. Note the position of the bent end of railing 6.

Completed work
The aft base has been fitted to the stand. Further details have been attached to the superstructure.
STAGE 138
STAND AND DECK DETAILS

COMPONENTS CHECKLIST

138-01: Forward support  
138-02: Aft support  
138-03: Connector  
138-04: Magnet covers  
138-05: Two anchor buoys (port and starboard)

138-06: Anchor shank  
138-07: Anchor head  
138-08: Two magnets  
138-09: Bow anchor stoppers  
138-10: Stern anchor stoppers  
138-11: Eyelets

138-12: Antenna mounts  
138-13: Frames and grating (1 and 2)  
138-14: ‘Wire’ for the rig  
138-15: ‘Rope’ for the anchor buoys  

Five 2.3 x 6mm PB screws

01. COMPLETING THE STAND

Take the aft support 138-02, the two magnets 138-08 and the frame with the magnet covers 138-04. Fit a magnet in each of the circular recesses in the support, as indicated.

This shows the two magnets 138-08 fitted in the aft support 138-02.
Remove the two magnet covers 138-04 from the frame and fit them over the magnets 138-08, as shown.

Take the stand assembly from the previous Stage and fit the aft support on the top of the column 137-02 as indicated. Note that the slot in part 138-02 and the connectors are to the rear of the stand.

When the aft support 138-02 is correctly positioned, the connections from the cable 137-10 come through the opening in the support. Fix the support to the column 137-02 with two PB screws.

At the forward end of the stand, fit the connector 138-03 into the top of the column 136-03, as shown.

Take the forward support 138-01 and fit it on the top of the front column 136-03/138-03. You will need two PB screws.

Fix the forward support 138-01 to the column 136-03/138-03 using two PB screws, as shown.
02. ASSEMBLING THE ANCHOR BUOYS AND FITTING THE ANCHOR STOPPERS

Take one of the two frames (1) from part 138-13. Bend the eight arms and the peg in the middle upwards at right angles, as shown.

Take the ‘rope’ 138-15 and wrap it around four of the arms of the frame 1. Secure the end with a small dot of glue and cut off the short end of the yarn as indicated (dotted line).

Wrap the thread 138-15 three or four more times around the arms of 1. Secure the thread with a small dot of glue, and cut off the surplus yarn.

Similarly, wrap the ‘rope’ 138-15 around the other arms of the frame 1. Secure the rope with a small dot of glue and cut off the short end of the yarn.

This completes the stand. When positioning the model, make sure that the two magnets (arrows) fit into the circular openings in the underside of the hull.

Place the hull on the stand. If you touch the On/Off switch 137-07, the LED on the body of the stand lights up red and the four main gun turrets initialize. Touching the switch again switches the unit off.
Continue to wrap the yarn 138-15 three or four times around the arms of frame 1. Secure the thread with a small dot of glue and cut off the long end of the yarn.

Remove the green (starboard) anchor buoy from frame 138-05. Glue it to frame 1: the central peg on the frame (indicated by the arrow in step 5) fits into a recess in the buoy.

Repeat steps 1 to 3 from the previous page to make the second frame 1 from frame 138-13. Start to wrap ‘rope’ 138-15 around the arms of the frame, holding it in place with small dots of glue. Remove the red (port) anchor buoy from frame 138-05.

Continue with the previous steps 4 to 6 to complete the second frame and fix the anchor buoy in place.

Identify the fixing points for the two anchor buoy frames on either side of the bow: four pegs on each of the frames are glued into the holes in the upper deck, with the red buoy to port, and the green one to starboard.

Remove the small grating (2) from the frame 138-13 and glue it over the guide for the bow anchor 8-03, as shown.
Completed work
The stand has been assembled. An anchor and two anchor buoys have been fitted to the bow. The eyelets 138-11, antenna mounts 138-12 and rig wire 138-14 will be fitted in future Stages.
STAGE 139
FITTING THE EYELETS AND THE RIG FOR THE ONBOARD CRANES

COMPONENTS CHECKLIST

139-01: Remote control circuit board

Eyelets and 'Wire' for the Rig from the previous Stage

NOTE: Instructions for fitting the circuit board will be given in the next Stage.

01. EYELETS FOR THE RIG

Place the frame 138-11 on your work surface and remove some of the eyelets. Continue to remove the eyelets from the frame as you need them.

The first four eyelets 138-11 are fitted in the holes at the front of the upper deck. Secure each eyelet with a little superglue.
Six more eyelets **138-11** are glued in place on the port side of the upper deck, near the forward breakwater.

Two more eyelets **138-11** are glued in place a little further aft, next to two bollards, as shown.

Moving to the starboard side of the upper deck, fix six eyelets **138-11** in place near the forward breakwater, as shown.

Continuing to the aft on the starboard side, glue two more eyelets **138-11** in place next to the two bollards.

An eyelet **138-11** is attached to the wall of the bridge deck **26-01** on the port side of the forward superstructure (circled).

Three eyelets **138-11** are glued to the deck covering **37-07** at the top of the forward superstructure (circled).
Further aft, two eyelets 138-11 are attached to the port side of the funnel.

Moving to the aft superstructure, another eyelet 138-11 (circled) is glued to deck section 94-02.

On the port side of the upper deck, two eyelets 138-11 are glued in place next to two bollards beside turret Dora.

A little further aft, two more eyelets 138-11 are glued beside the bollards on the port side of the upper deck, as shown.

Seven eyelets 138-11 are attached to the port side of the hull, near the stern spar and the screw guard.

Two more eyelets 138-11 are glued to the upper deck beside the jackstaff at the stern.
Moving to the starboard side of the model, glue an eyelet 138-11 in place on the wall of the bridge deck 26-01, on the forward superstructure.

Glue four eyelets 138-11 in place beside the bollards, near the aft gun turret Dora, as shown.

Attach two eyelets 138-11 to the starboard side of the funnel.

Attach seven eyelets 138-11 to the starboard side of the hull, near the stern spar and the screw guard.

**02. THE RIG FOR THE TWO ONBOARD CRANES**

Place one of the two on-board cranes 134-01 on your worktop. Cut a length of about 1.3m (4 feet) of ‘wire’ 138-14. Fix one end of it with a knot and some glue to the peg on part 5 at the base of the crane.

Thread the ‘wire’ 138-14 over the reel of part 134-03, and through the large opening of part 7 (arrow) to the top of the boom as shown.
Feed the ‘wire’ **138-14** around the guide at the tip of the boom **134-01** and then back through the slot in the boom (arrow) towards the reel of part **134-03**.

Pass the ‘wire’ **138-14** around the reel of part **134-03**, as shown.

Feed the ‘wire’ **138-14** back to the front of the guide at the tip of boom **134-01**, as shown in the photo. Note how the ‘wire’ is threaded through the parts of the crane.

Thread the ‘wire’ **138-14** through the opening in the block **134-05**.

Next, run the ‘wire’ **138-14** from below through the small opening on the boom **134-01** (red arrow) and then along the top of the boom to the reel of part **134-03** (yellow arrow).

Run the ‘wire’ **138-14** around the reel of part **134-03**, and back to the tip of boom **134-01**.
Loop the ‘wire’ 138-14 back around the guide at the top of boom 134-01 and then back to the spool, part 134-03.

Continue looping the ‘wire’ 138-14 around the guide and spool once again.

Loop the ‘wire’ 138-14 around the guide and spool one final time, threading it through the parts of the crane as shown.

Attach the ‘wire’ 138-14 to the peg of part 5 with a little glue and cut off the excess ‘wire’ as indicated by the dashed red line.

Cut another piece of ‘wire’ 138-14 about 15cm (6 inches) long. Knot one end of it on the hook of the block 134-05, as shown.

Attach the free end of the ‘wire’ 138-14 to the crane body 134-06 with a knot at the point indicated by the red arrow. Rig the second onboard crane in the same way.
A total of 54 eyelets have been fixed to the hull, the upper deck and the superstructure. The two onboard cranes have been rigged and placed on the model.

Fit the first onboard crane 134-01 on the starboard side of the upper deck, next to the aircraft. Do not glue the crane in place as it needs to be able to rotate.

Fit the second onboard crane 134-01 in the corresponding place on the port side of the upper deck. Again, do not glue it in place, as it needs to be able to rotate.

**Completed work**

A total of 54 eyelets have been fixed to the hull, the upper deck and the superstructure. The two onboard cranes have been rigged and placed on the model.
STAGE 140
THE REMOTE CONTROL

You will also need four AAA batteries. For the best performance we recommend alkaline batteries. Always remove the batteries when the remote control is not in use.

COMPONENTS CHECKLIST

140-01: Remote control cover
140-02: Remote control box
140-03: Battery compartment cover
140-04: Button mat
140-05: Button mat
140-06: Two button mats
140-07: Five control levers

Two 2 x 6mm PB screws
Five 2.3 x 5mm PWB screws
Six 2.6 x 8mm KB screws

01. ASSEMBLING THE REMOTE CONTROL

Take the box 140-02 and the circuit board 139-01 supplied with the previous Stage. Check how the circuit board fits into the box, as indicated.

This shows the circuit board 139-01 correctly inserted in the box 140-02. You will need four 2.3 x 5mm PWB screws.
Fix the circuit board **139-01** into the box **140-02** with the four 2.3 x 5mm PWB screws, as shown.

Take the connector from the end of the cable in the remote control box **140-02** and fit it into the socket on circuit board **139-01**.

Take the remote control cover **140-01** and turn it over. Fit the buttons on the button mat **140-04** into the holes in the cover plate in the position shown. The inset shows how the buttons come through the holes in part **140-01**. Similarly, fit the button mat **140-05** on the cover **140-01**.

With button mat **140-05** fitted in place, as shown, fit the buttons on the two button mats **140-06** into the holes in the cover **140-01**.

Fit the cover plate **140-01** over the circuit board in the box **140-02** as indicated. You may find it easier to keep the buttons and part **140-01** on the worktop and lower the circuit board **140-02** on to them.

Fix the cover plate **140-01** in place with five 2.6 x 8mm KB screws, as indicated.
Turn the remote control box 140-02 over and insert four AAA batteries into the battery compartment, as indicated, making sure you have the terminals the right way round.

Take the battery compartment cover 140-03 and fit the tab into the recess at the back of the compartment, as indicated.

Push the other side of the battery compartment cover into place and secure with a 2 x 6mm PB screw.

Turn the box 140-02 the right way up. Remove the five control levers from the frame 140-07. Take the first lever and fit it onto one of the five pegs at the top of the circuit board. This is a push-fit connection.

Fit the remaining four control levers 140-07 to the pegs at the top the board. Press the ON/OFF button (arrow) and the indicator lamp lights up green, as shown.

Now touch the power switch 137-07 on the stand. The LED lights up red and the initialization of the four main gun turrets starts. You can then run the functions of your model remotely.
02. THE RIG

You will need the ‘wire’ 138-14 and the antenna mounts 138-12 to attach the rigging. For each section, knot one end in place, then use a suitable length of ‘wire’ and tension it as you knot the other end in place. Ensure each line is taut and securely fixed as you work through the steps. Apply a drop of glue to each knot to hold the wires in place. At each step we only show the rig that is described in the step. We have referred to the rig as ‘line’ throughout: some of the lines are transmitting or receiving antennae, some are stays, and so on.

NOTE: Much of the rig (running between the two masts and from the main mast to the funnel) is connected between two different sections of the upper deck. It will be difficult to remove the upper deck sections once you have completed the rig. You should only complete the following steps after you have successfully tested all the functions of your model and you no longer need access to the inside of the hull. Take time to test the operation thoroughly before proceeding.

The lines A run from the two rails at the rear of the forward superstructure behind the rangefinder (inset) to the main mast, on the aft superstructure.

The lines B run from the aft eyelets 138-11 on either side of the funnel (insets) up to the main mast.
The line C is tensioned between the foremast and the mainmast. The two insets show where the ends are attached around the masts, above wider sections of each mast.

The lines D run from the main mast to the tie points on the railings on each side of the superstructure deck (insets).
The line **E** runs from the eyelet 138-11 on the deck of the aft superstructure up to the mainmast. The two insets show the position of the knot on the mast and the position of the eyelet.

Ensure that the lines fitted here are taut and securely attached, as further lines will be attached to them (steps 8 and 9).

The line **F** runs from the outer hole at the back of the port side of the aft signal bridge 107-03 up to the port end of the longest spar on the main mast and from there on to the end of the middle spar.

Similarly, the line **G** runs from the outer hole on the back of the starboard side of the aft signal bridge to the starboard ends of the same two spars.

The inset shows the position of the two holes on the aft signal bridge.
The lines H and I run from the two inner holes on the back of the aft signal bridge 107-03 up to the longest spar on the main mast and from there on the top spar. The insets indicate the position of the holes on the signal stand and the points on the spars where the lines are knotted.

Five lines 1-5, shown in red, run from the holes on the port side and the front of the aft signal stand (see inset) up to line F, which was fitted in step 6.
Similarly, on the starboard side run five lines 6-10, shown in red, from the holes on the starboard side and the front of the aft signal stand (inset) up to line G, which was fitted in step 6.

The line 11 (shown in red) runs from the rail on part 104-05 (inset) to the line E, which you fitted in step 5.
On the port side of the forward superstructure, lines J, K and L run from the railing of the lower mast deck up to loops on the antenna arm below the searchlight deck.

Similarly, on the starboard side of forward superstructure, lines M, N and O run from the railing of the lower mast deck to the antenna arm below the searchlight deck.
On the port side of the forward superstructure, line P runs between the two antenna arms, as shown.

Similarly, on the starboard side, line Q runs between the two antenna arms, as shown.

The line R is fitted at the front of the forward superstructure. It runs from the lower antenna fixing point, through the middle one to the upper fixing point, as shown.
The line **S** runs along the port side of the forward superstructure. Fix one end to the bracket on the superstructure wall behind one of the 3.7cm guns (inset, lower), then run the line over the curved bracket near the navigation light (inset, upper), out to the end of the wing and back to eyelet **138-11** near the forward twin 15cm gun.

Similarly, on the starboard side, line **T** is fixed to the bracket on the superstructure wall behind one of the 3.7cm guns, then runs over the curved bracket near the navigation light, out to the end of the wing and back to eyelet **138-11** near the forward twin 15cm gun.
In the next steps, antennae are fitted between the two masts. Separate four antenna mounts from frame 138-12. Run ‘wires’ V-2 and U-2 between each pair of antennae mounts so that the mounts are 100mm apart. Connect one mount to each end of the top spar on the aft mast, with short lengths of ‘wire’ (U-3 and V-3). These should be 10mm long. Connect one mount to each end of the spar on the forward mast (U-1 and V-1; see inset). These should also be 10mm long. Ensure that the lines are all taut.

Separate two more antenna mounts from frame 138-12. Connect the mounts with two ‘wires’, W-2. These should be 140mm long. Use a short length of ‘wire’ to connect one mount to the port end of the longest spar on the aft mast (W-3; inset, 10mm long), and fit the other mount to the end of the antenna arm on the forward superstructure (W-1; see also inset and step 13; 10mm long).
Take the last two antenna mounts from frame 138-12. Connect two lines (X-2) between the mounts; 140mm long. Connect one mount to the starboard end of the longest spar on the aft mast (X-1, inset, 10mm long). Attach the other mount to the antenna arm on the forward superstructure (X-3, inset, see step 14, 10mm).

Returning to the port side, line Y runs from the inner end of the antenna support on the forward superstructure to the port end of the longest spar on the aft mast.
Similarly, on the starboard side, line \( Z \) runs from the inner end of the antenna arm on the forward superstructure to the starboard end of the longest spar on the aft mast.

Line \( 12 \) runs from the forward eyelet 138-11 on the port side of the funnel up to line \( Y \).
Still on the port side, line 13 runs from the admiral’s bridge to the antenna arm on the forward superstructure.

On the starboard side, line 14 runs from the forward eyelet 138-11 on the funnel up to one of the lines U-2. Line 15 runs from the antenna tab on the aft mast (see inset), up to the line U-2.
Line 16 runs from the antenna tab (inset) up to the port side thread B.

On the port side of the hull, line 17 runs from the bow boom 134-07 to the attachment point fitted near the forward breakwater in Stage 8.

**NOTE:** If you should ever want to remove the front deck, you will have to remove this line.
On the port side of the upper deck, lines 18, 19 and 20 are fitted from the attachment point to the eyelets 138-11 on the deck.

On the starboard side, line 21 runs from the bow boom 134-07 to the attachment point fitted in Stage 8 near the forward breakwater.

**NOTE:** If you should ever want to remove the front deck, you will have to remove this line.
Lines 22, 23 and 24 are fitted between the attachment point and the eyelets 138-11 on the starboard side of the deck.

Moving to the port side of the stern, the lines 25, 26 and 27 are attached to the screw protector 134-13. The lines are tensioned through the eyelets 138-11 as shown. Note that line 25 goes through two eyelets and is tied to a third; line 27 runs through one eyelet and is tied to a second eyelet.
Further aft on the port side, line 28 runs from the eyelet 138-11 to the stern boom.

On the starboard side towards the stern, fit the lines 29, 30 and 31 from the screw protector 134-13 and out to the eyelets 138-11, as shown. Note that line 29 runs through one eyelet and is tied to a second eyelet; line 31 goes through two eyelets and is tied to a third.

Further aft, line 32 runs from the eyelet 138-11 to the stern boom.
Stage Complete! We hope you have enjoyed building your Bismarck. Don’t forget, when you choose your next model the first Pack is absolutely free! Go to agoramodels.com for more details.

Display cases for your model are also available at agoramodels.com.

⚠️ Warning: to keep your model in pristine condition please keep out of direct sunlight.