

TITANIC

THE SHIP • THE LEGEND

Pack 20

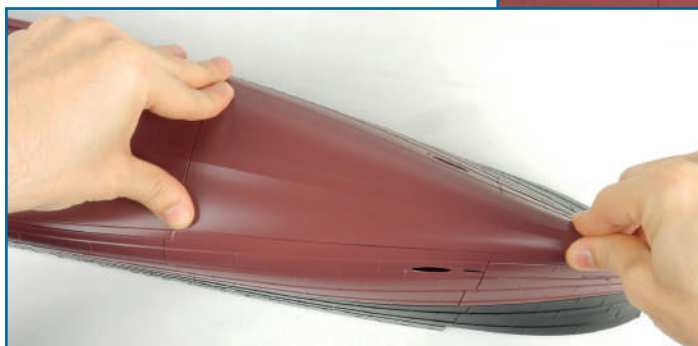
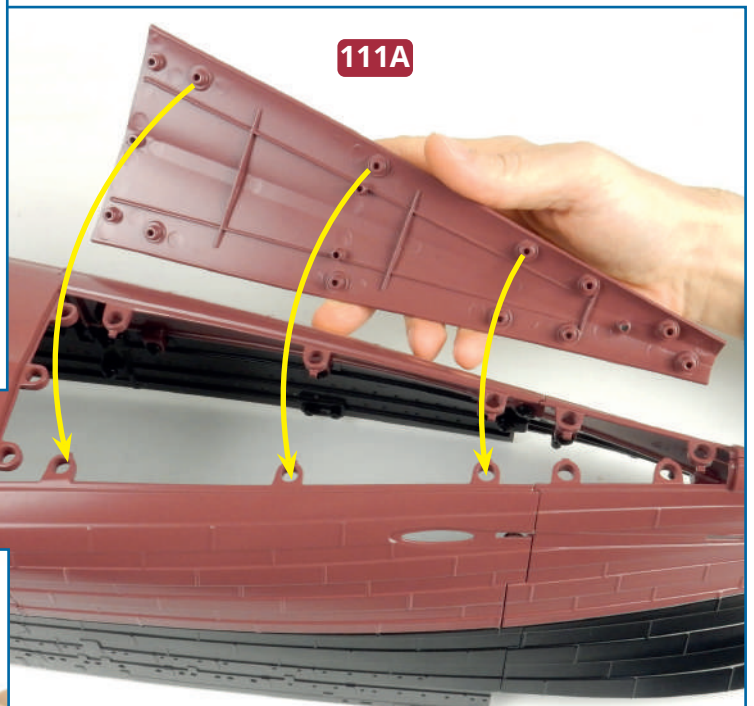
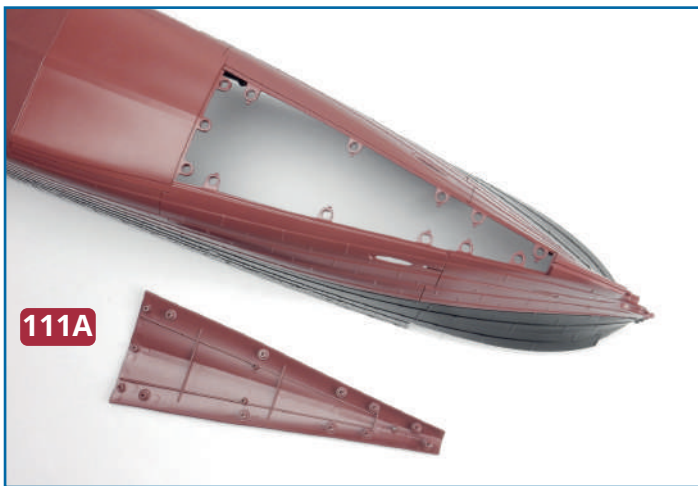
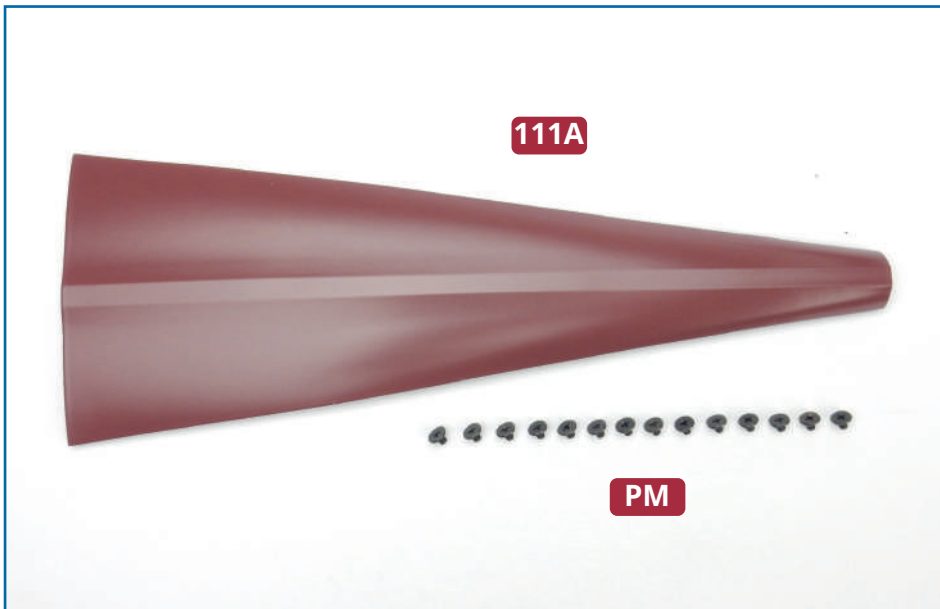


THE LAST SECTION OF THE KEEL

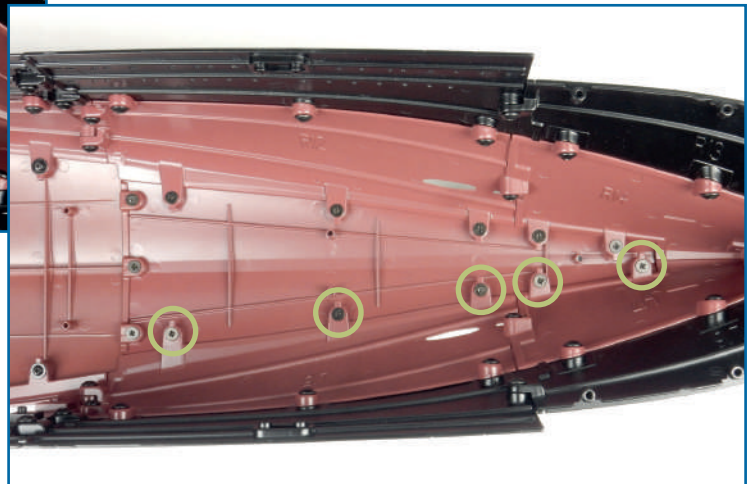
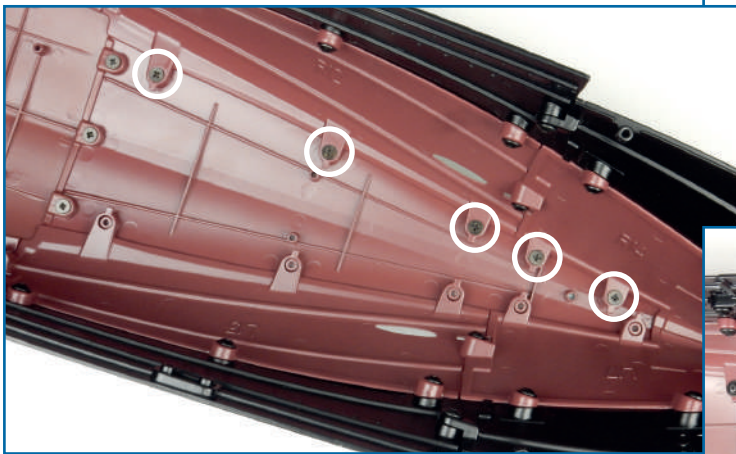
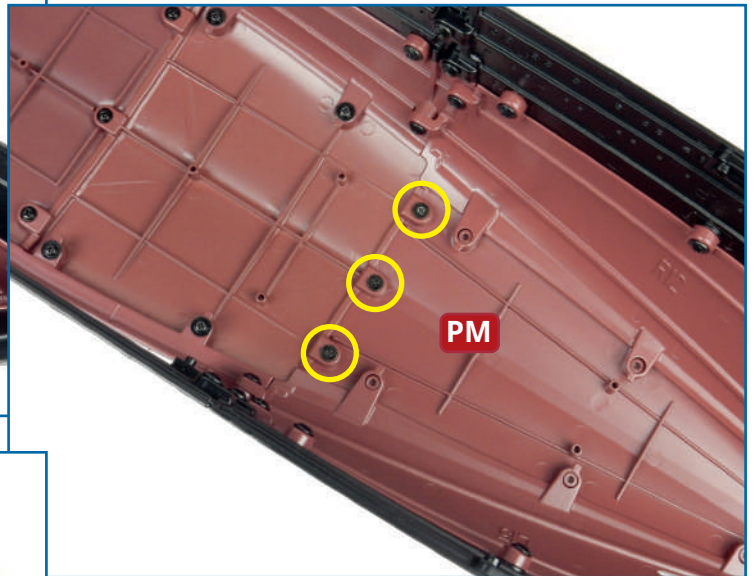
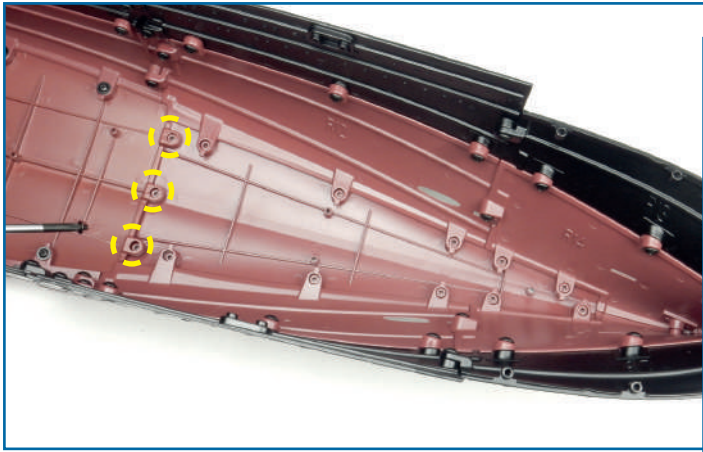
PARTS IN THIS ISSUE

111A Stern section of keel

PM Fourteen PWM screws
(1 spare)



1 Take the hull assembly from the previous issue. Check how the keel section **111A** fits on the underside of the hull so that the screw holes are aligned (arrows, above).



2 Turn the hull right side up and fix the **PM** screws in place in the following order: first fit and tighten the three screws circled in yellow (top and top right); next, fit and tighten the five screws on the starboard side, circled in white (above); finally, fit and tighten the five screws on the port side circled in green (right).



Completed work

The stern section of the keel has been fixed to the hull.

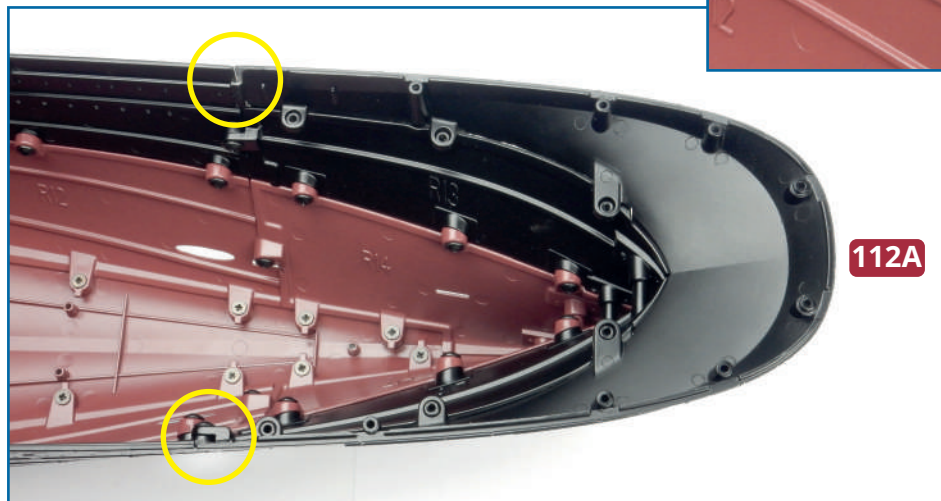
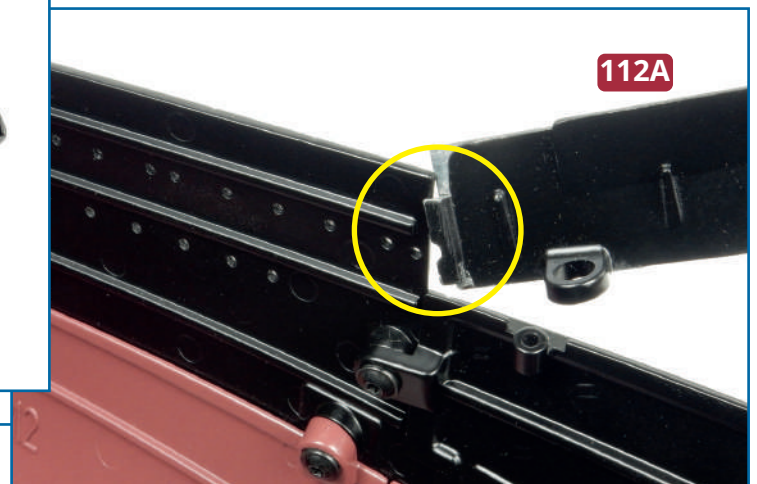
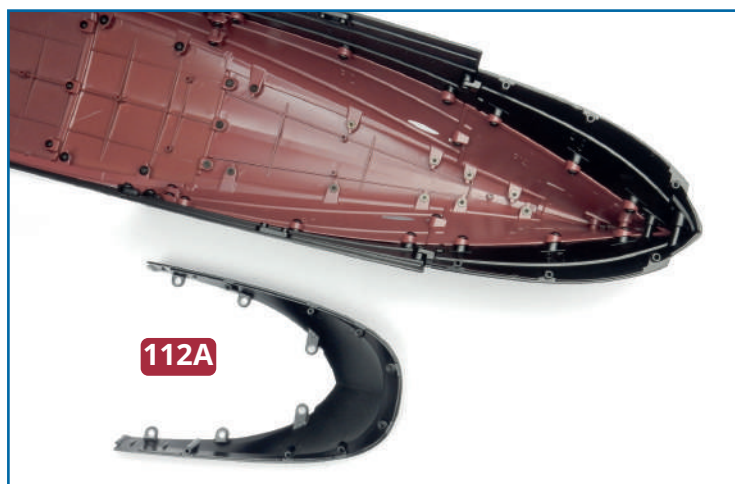
STERN SECTION OF THE HULL



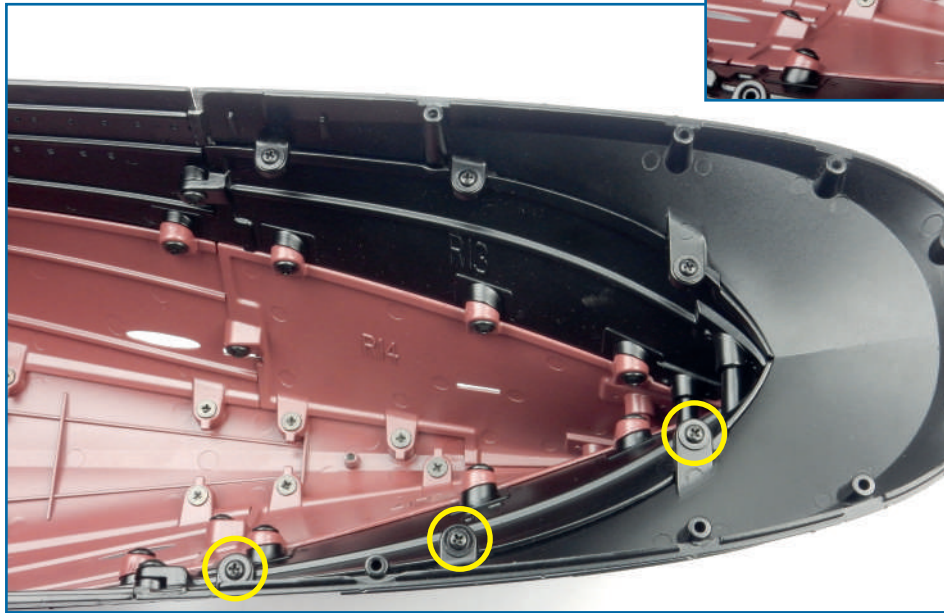
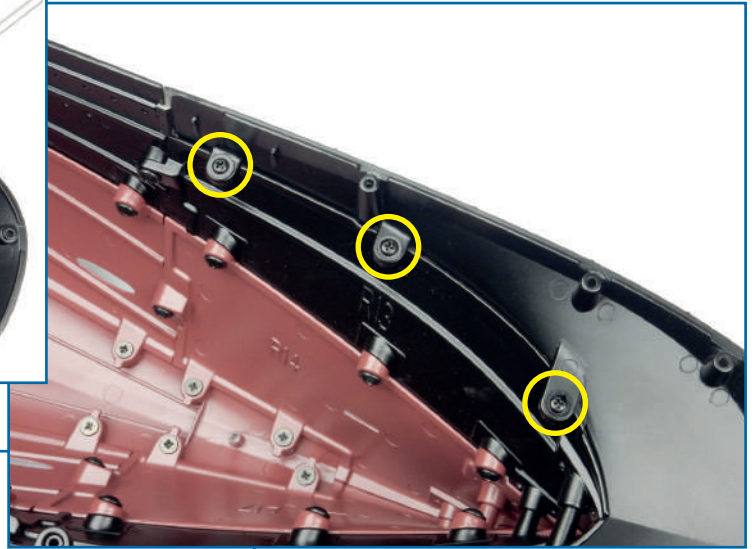
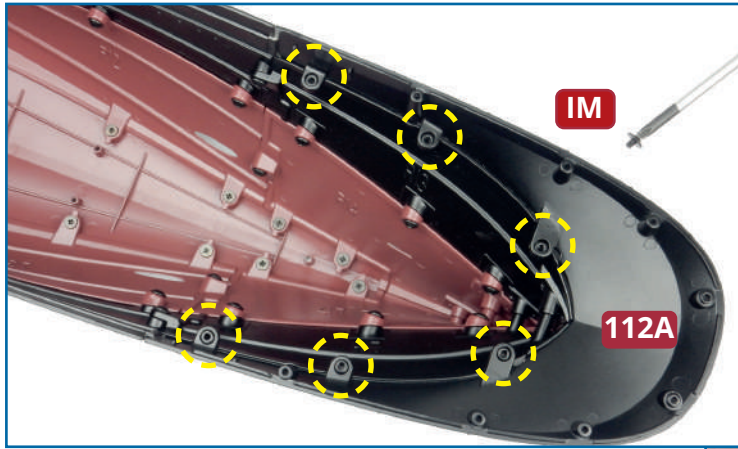
PARTS IN THIS ISSUE

112A Stern section of the hull

IM Seven PWM screws
(1 spare)



1 Take the hull assembly from the previous issue and the stern section **112A**. Fit part **112A** to the previous section as shown, checking that the tabs at each end of the stern section are fitted correctly (as circled in yellow, above and left).



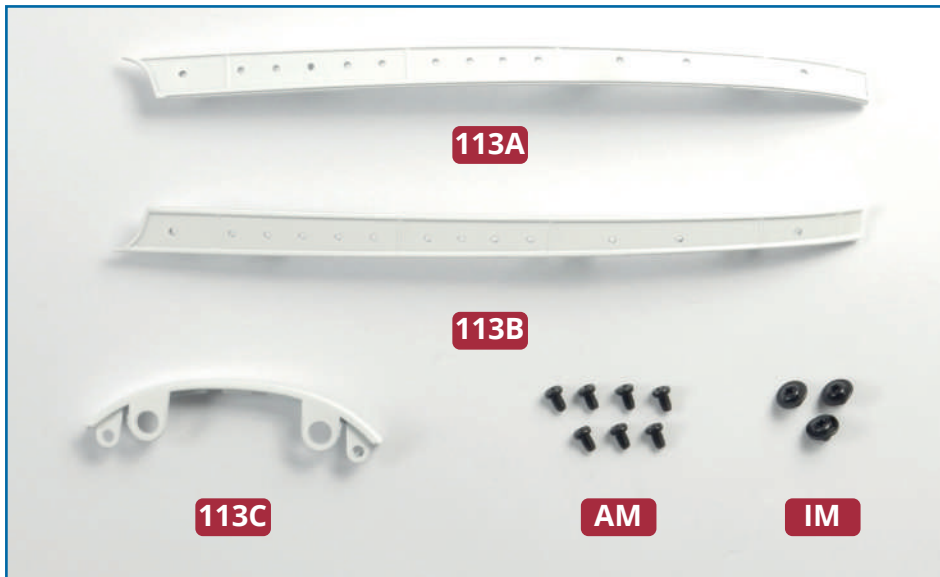
2 Fix the stern section in place with six **IM** screws (circled).



Completed work

All the main sections of the hull have been fixed together.

BULWARKS FOR THE STERN



PARTS IN THIS ISSUE

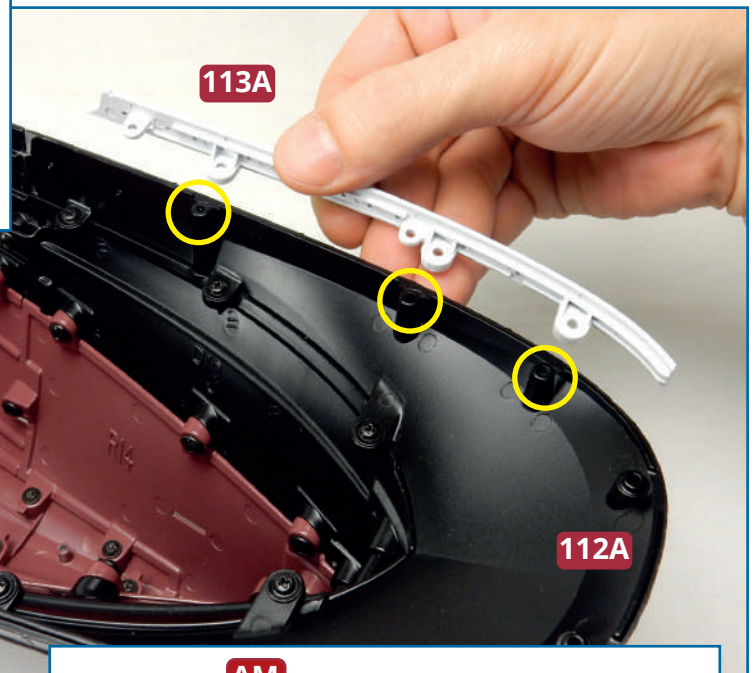
113A Bulwark for starboard side

113B Bulwark for port side

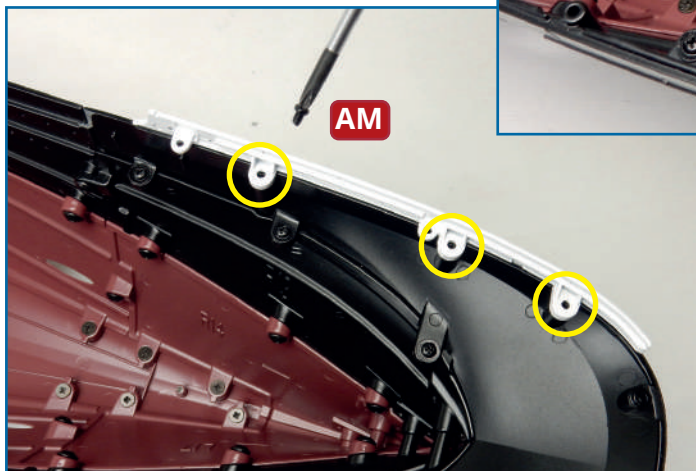
113C Bulwark for stern

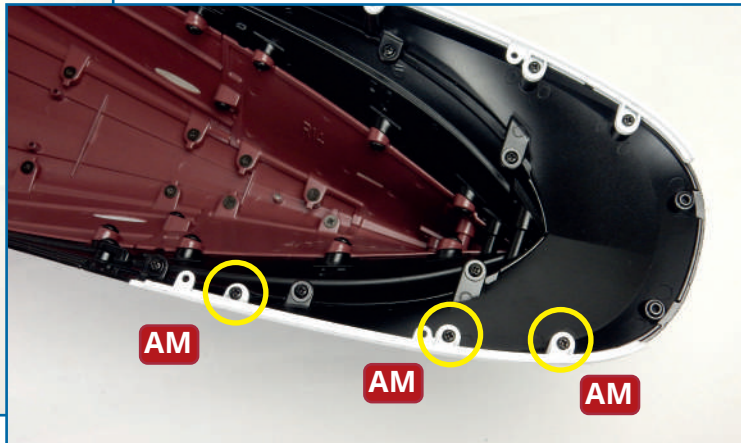
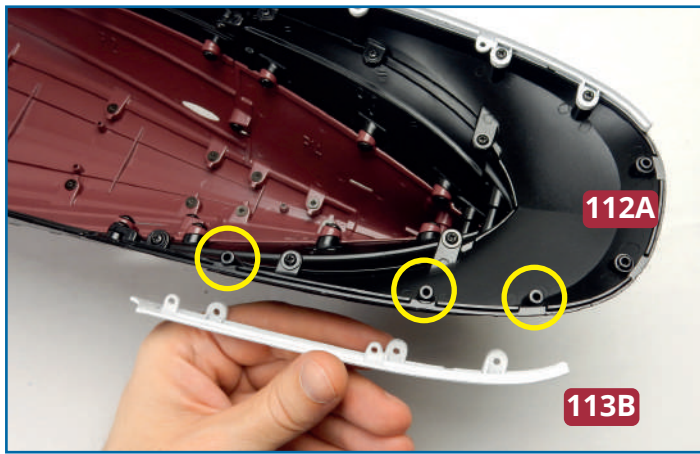
AM Seven 2.6 x 4mm PM screws (1 spare)

IM Three 2.6 x 3mm PWM screws (1 spare)

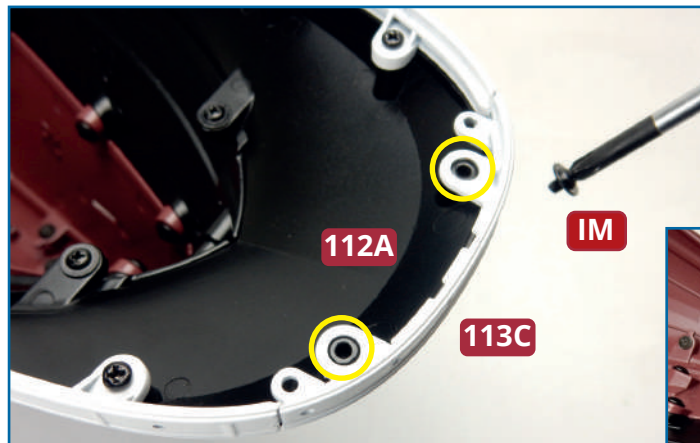


1 Take the starboard bulwark **113A** and check how it fits against the stern section of the hull **112A** so that three screw holes in tabs on part **113A** align with screw sockets in part **112A** (circled in yellow, right). Fix in place with three **AM** screws.

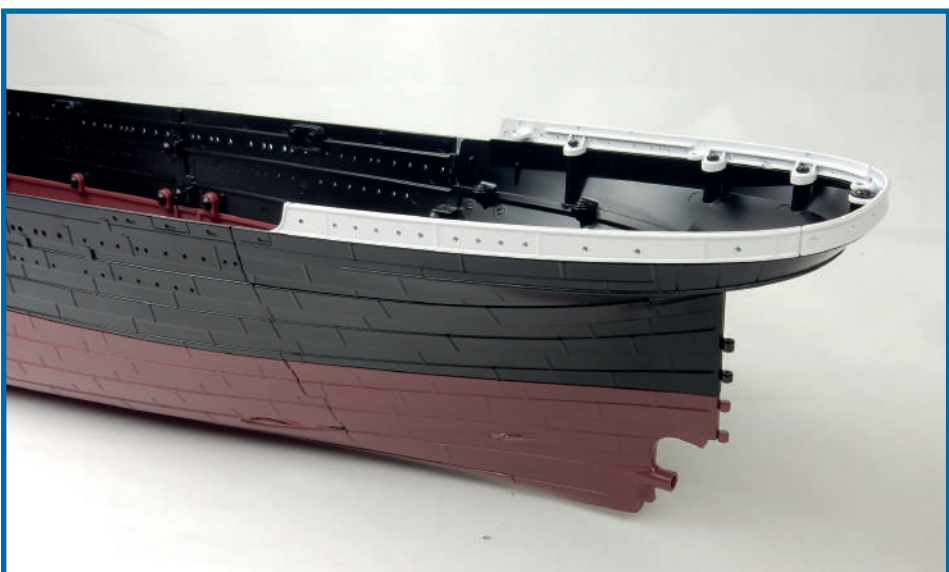
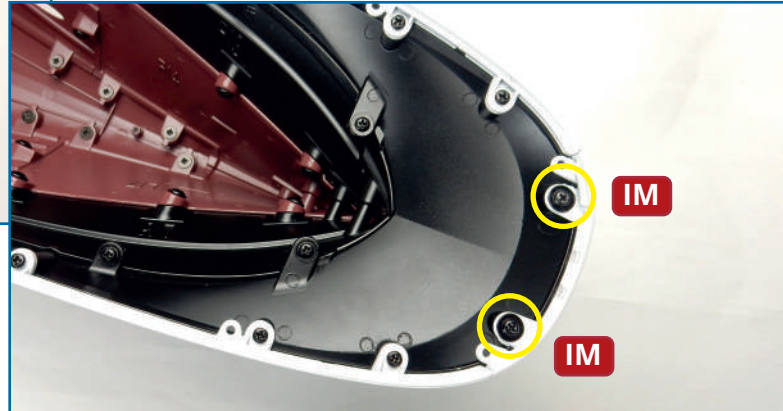




2 Similarly, fix the port bulwark **113B** in place on the port side of part **112A** with three **AM** screws.



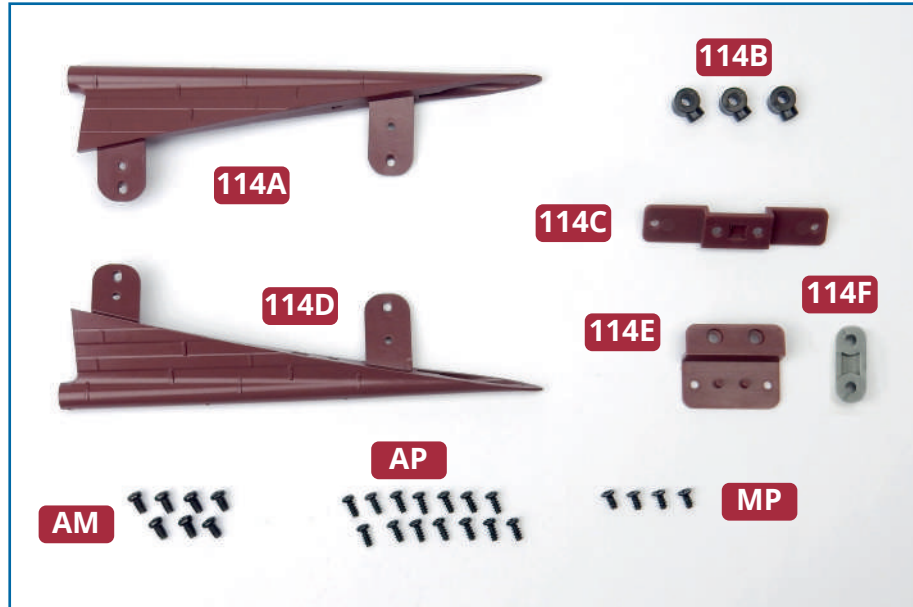
3 Check how the stern bulwark **113C** fits around the stern end of part **112A** and fix in place with two **IM** screws.



Completed work

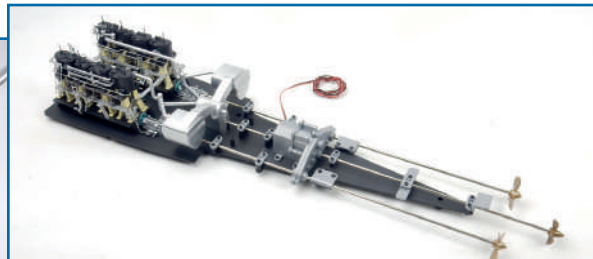
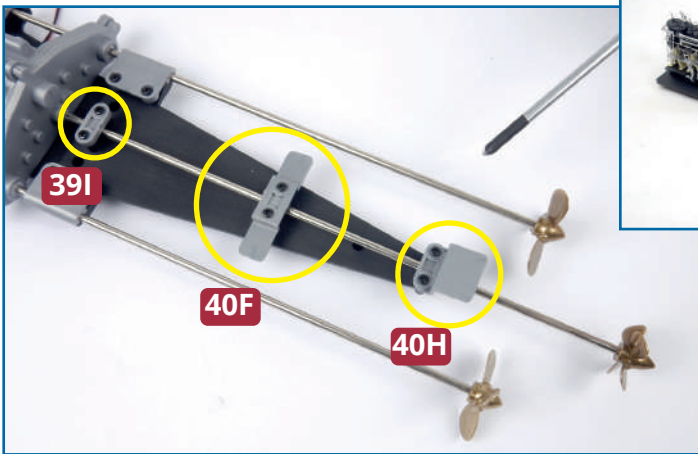
Three sections of trim have been fitted around the stern end of the hull.

SUPPORTS FOR THE PROPELLER SHAFTS

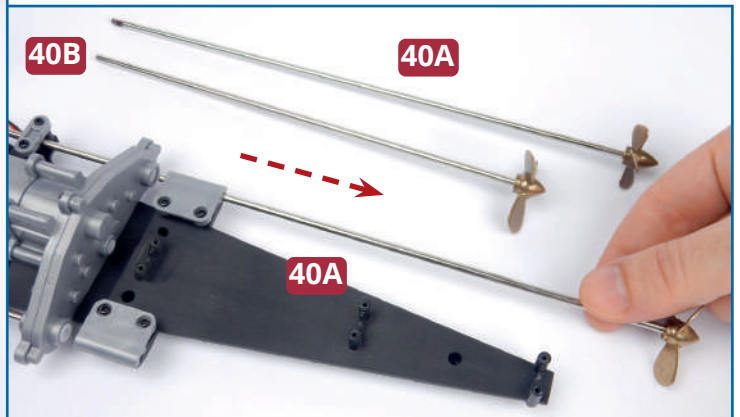


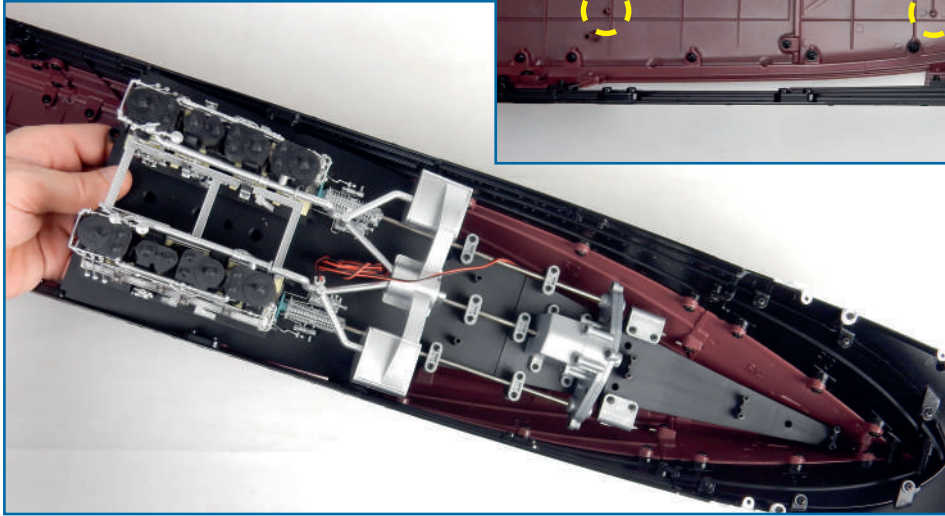
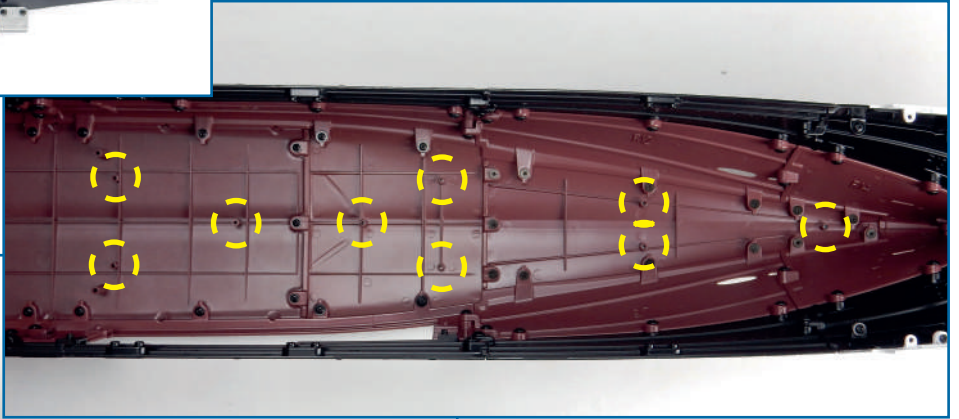
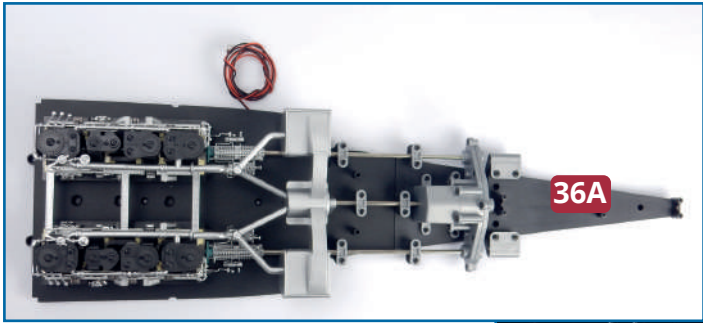
PARTS IN THIS ISSUE

- 114A** Port shaft support
- 114B** Collars (x 3)
- 114C** Central fixing plate
- 114D** Starboard shaft support
- 114E** Stern fixing plate
- 114F** Small fixing plate
- AM** Seven 2.6 x 4mm PM screws (1 spare)
- AP** Fourteen 2.3 x 5mm PB screws (1 spare)
- MP** Four KM screws (1 spare)

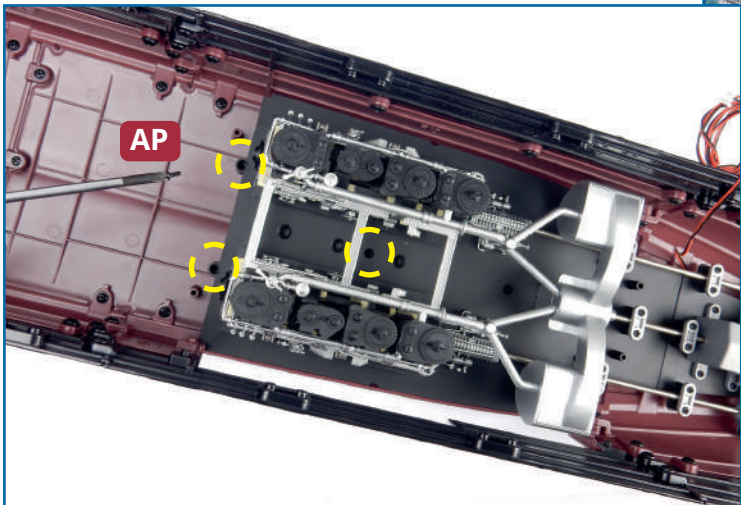
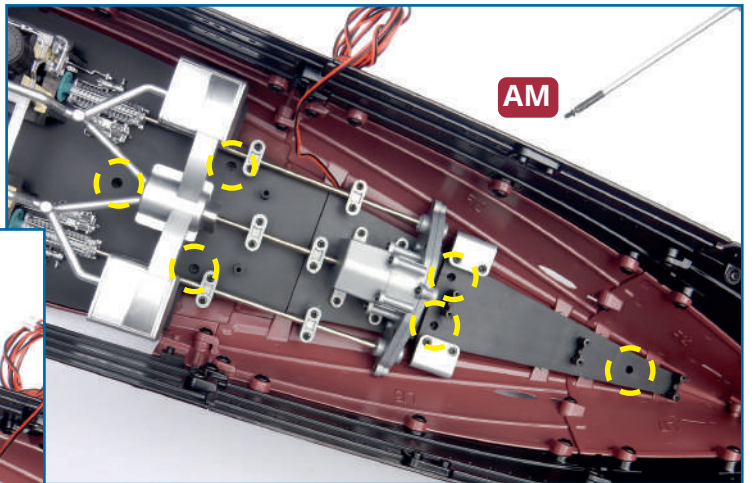


1 Take the completed engine and propeller assembly from **issue 40**. Remove the plates **39I**, **40F** and **40H**, as indicated (circled). Then remove the three propeller shafts. It is advisable to label the shafts (port, centre, starboard) so that you can replace them correctly.





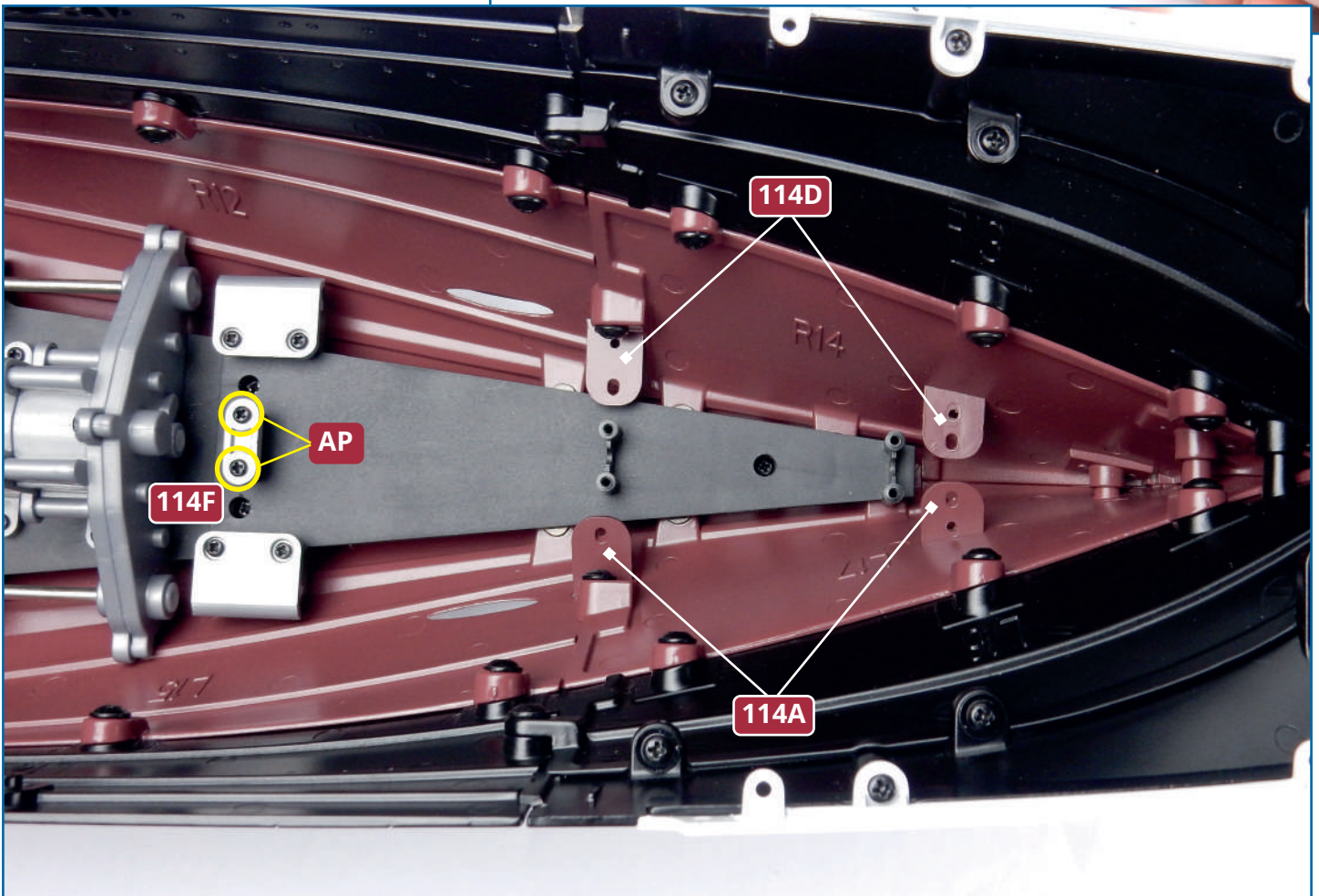
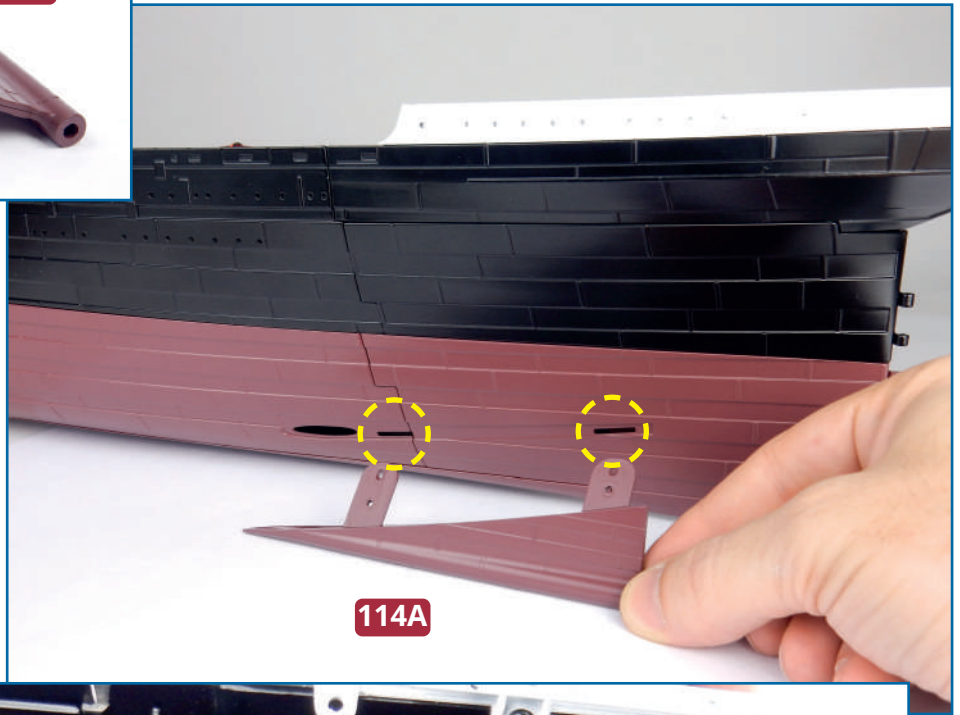
2 Now position the engine assembly inside the hull from **issue 113**, taking care to ensure that the screw holes in the engine room deck **36A** align with screw holes in the bottom of the hull (circled).



3 Fix the engine assembly to the bottom of the hull using three **AP** screws and six **AM** screws. (The **AP** screws fix the deck beneath the reciprocating engines to the plastic section of the hull, left; the **AM** screws fix the engine room deck panels to the metal section of the hull, above.)

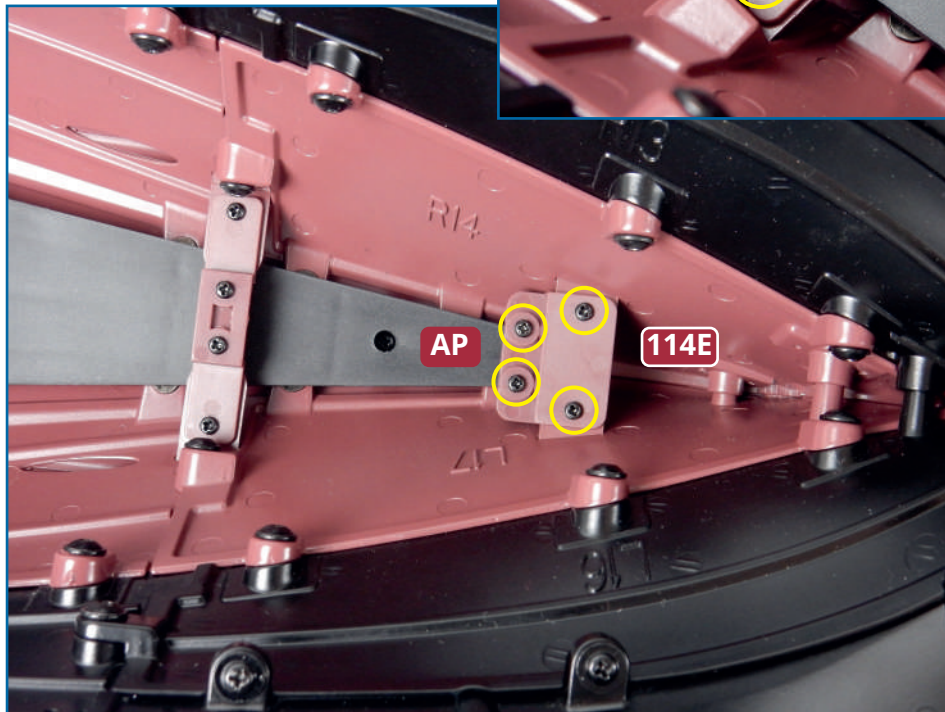
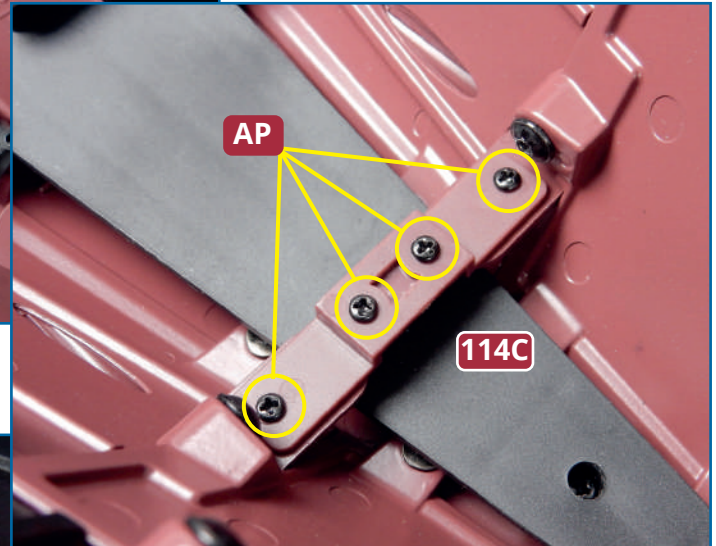
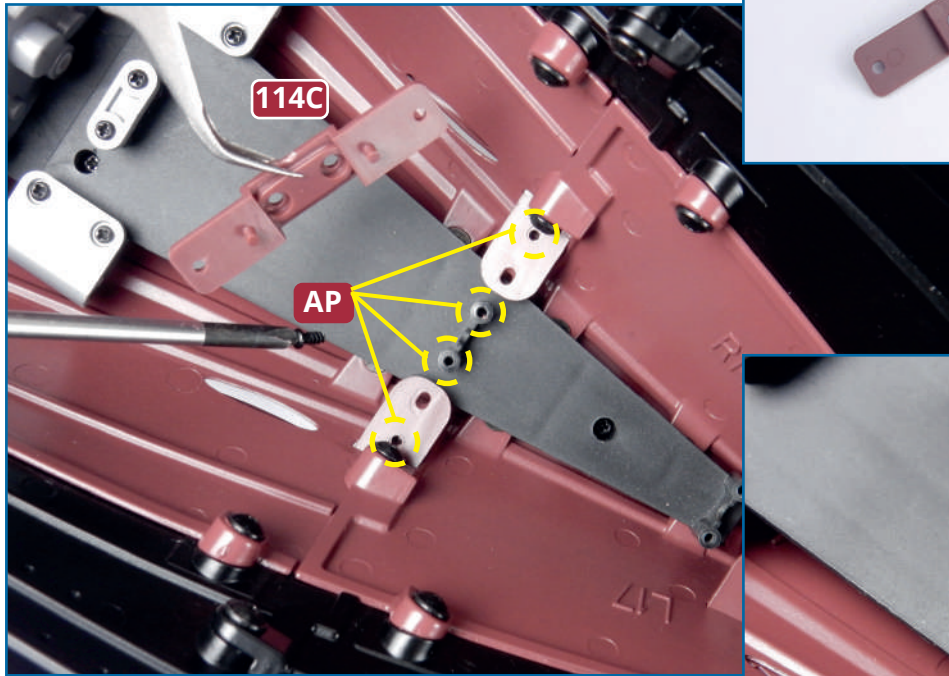
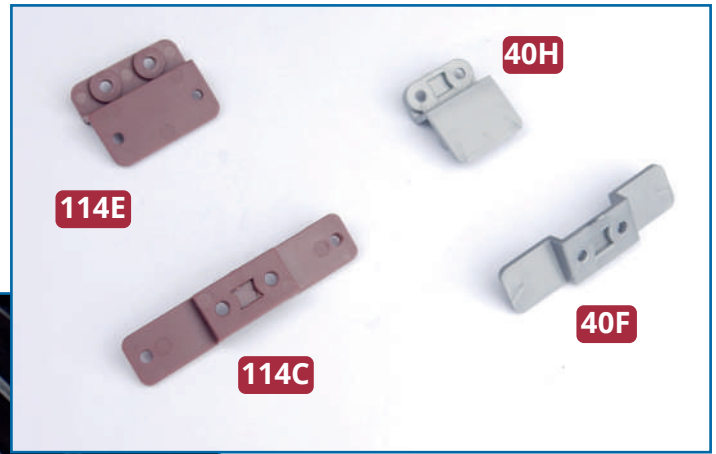


4 Take the two supports for the propeller shafts **114A** and **114D** and note the angle of the tabs on each (to ensure that you fit them on the correct side of the hull). Fit the tabs into the slots in the hull sides, as shown, so that the tabs go through to the inside of the hull, as shown below. Fit the fixing plate **114F** over the holes where part **39I** was removed in step 1 (below) and fix in place with two **AP** screws.





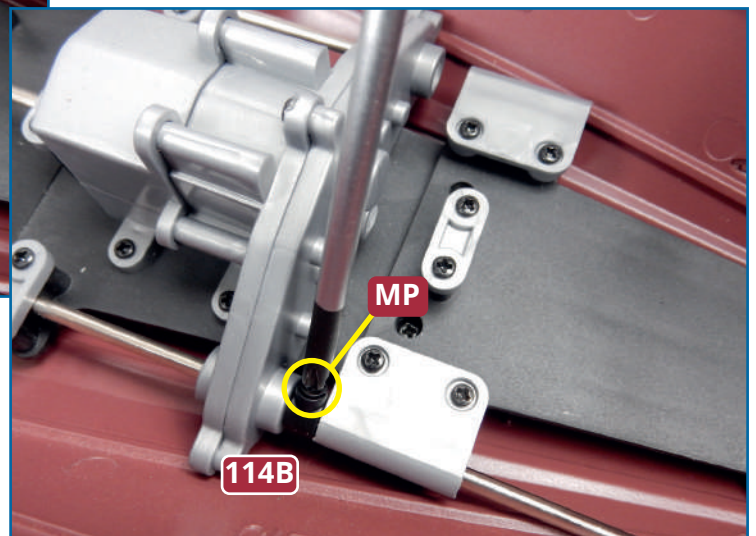
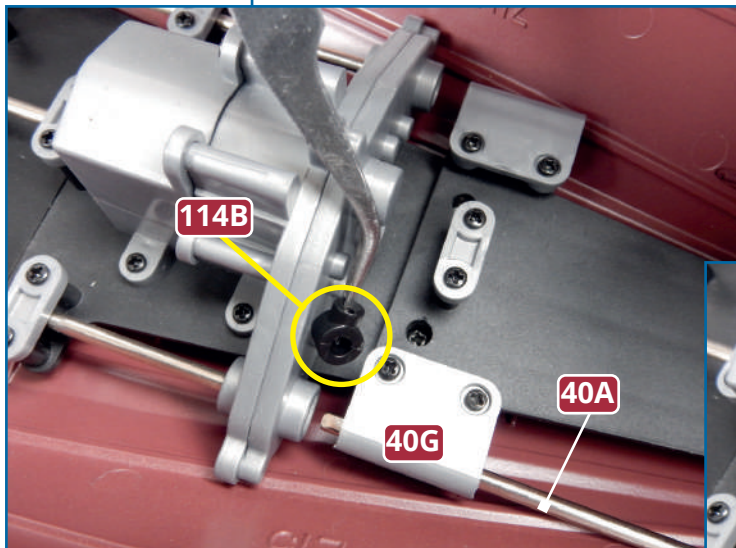
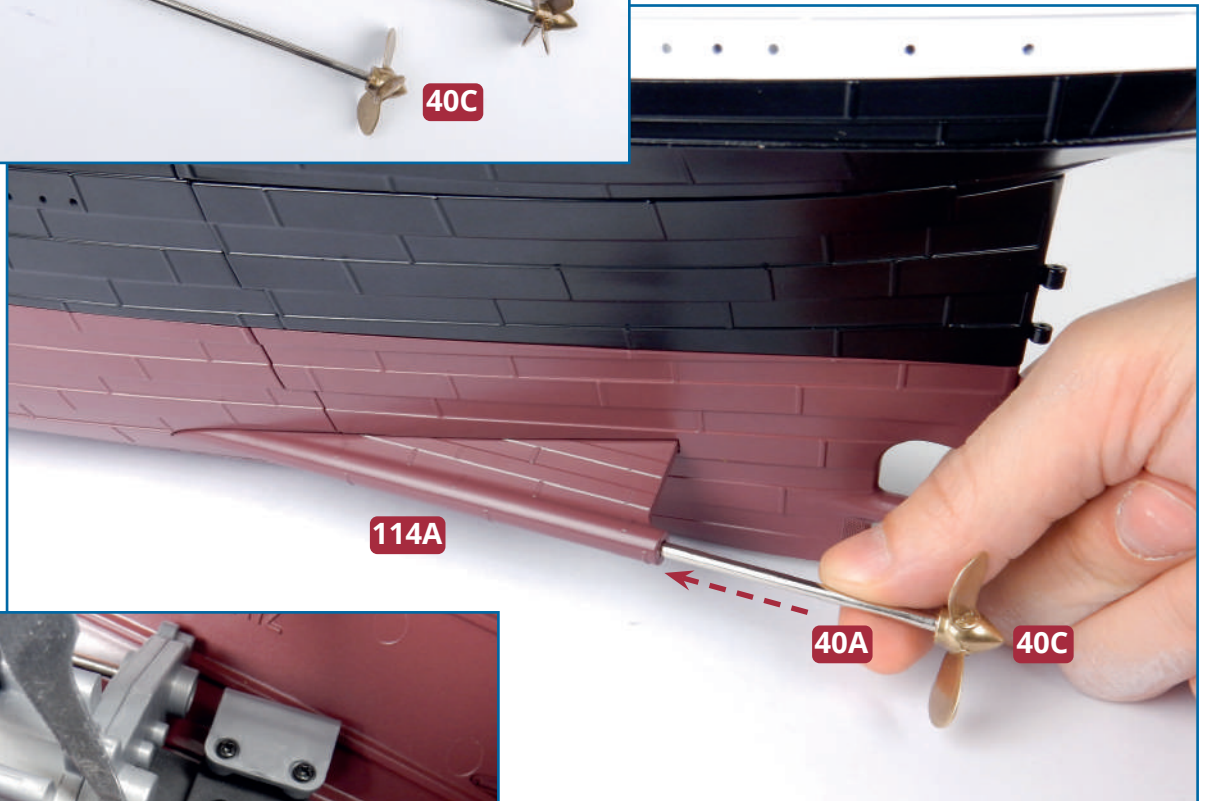
5 Position the fixing plate **114C** over the holes where part **40F** was removed, and position the fixing plate **114E** where part **40H** was removed. Fix parts **114C** and **114E** in place with four **AP** screws for each plate.

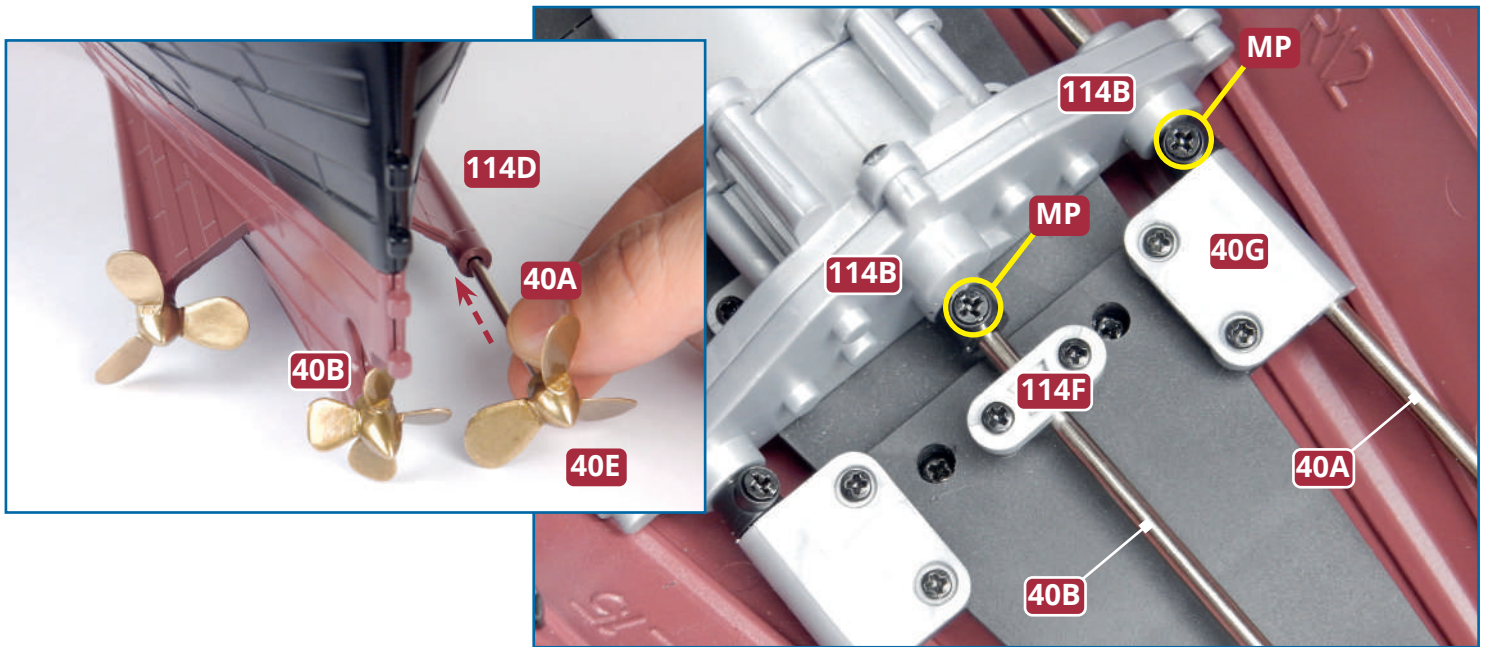


★ STEP-BY-STEP INSTRUCTIONS ★



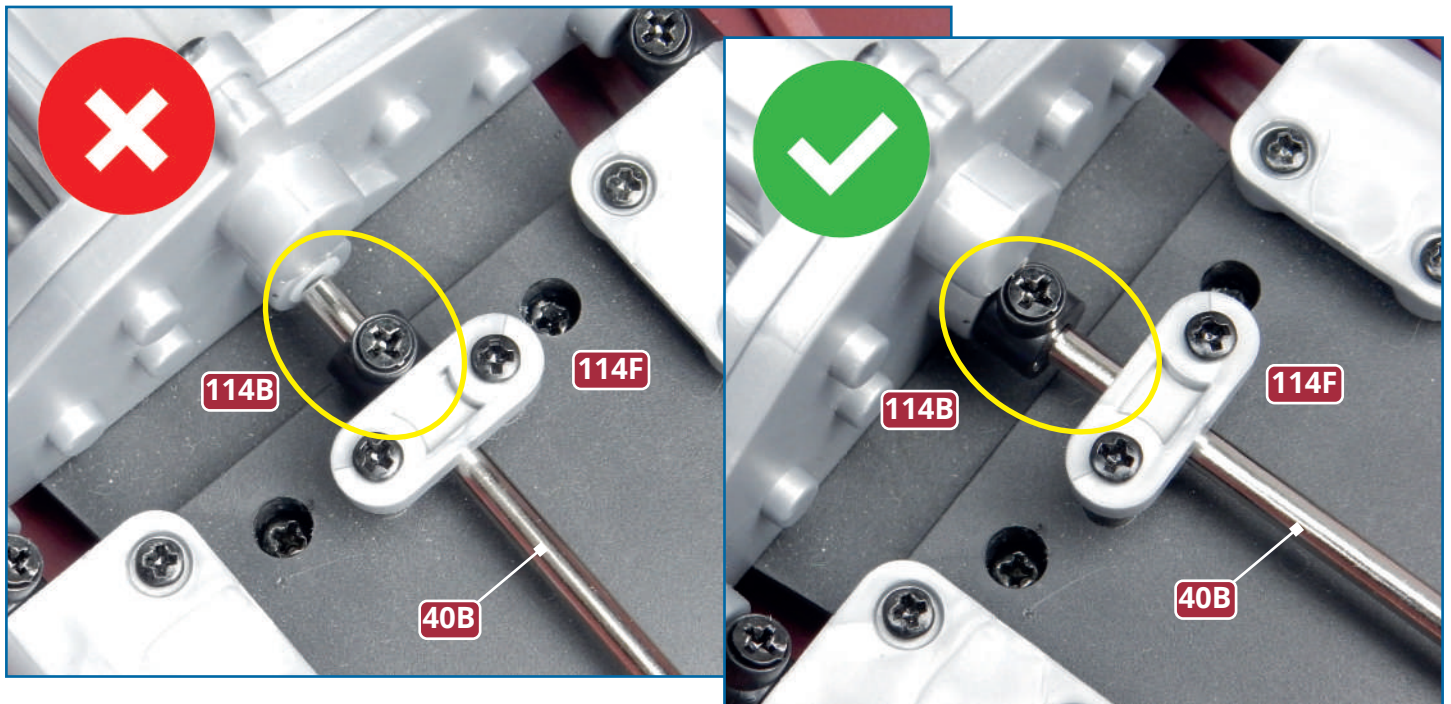
6 Take the port side shaft **40A** and one of the collars **114B**. Insert the shaft **40A** (with prop **40C**) through the cylindrical hole in part **114A**, as shown (below). Inside the hull, run the shaft **40A** through the side plate **40G** and then through the collar **114B**. Push the shaft into the gear box and fix it in place with an **MP** screw.



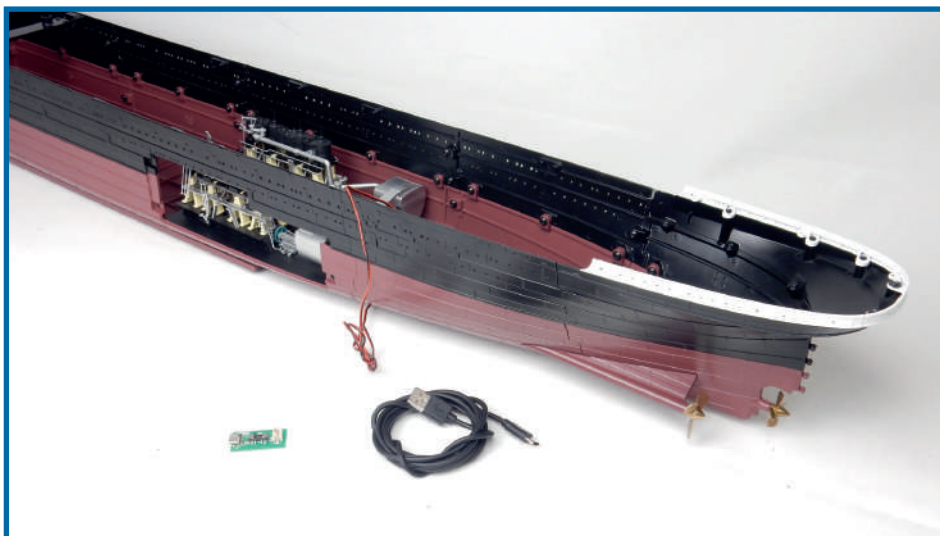
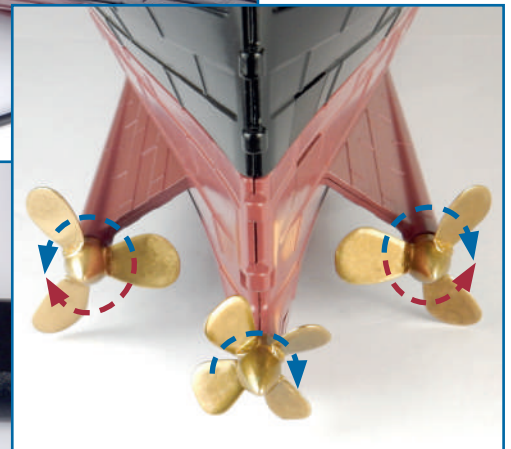
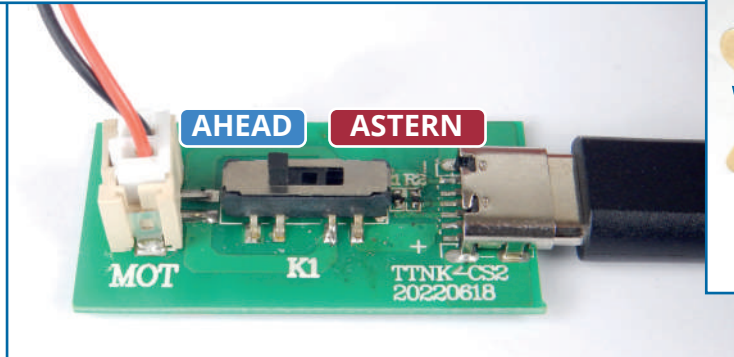
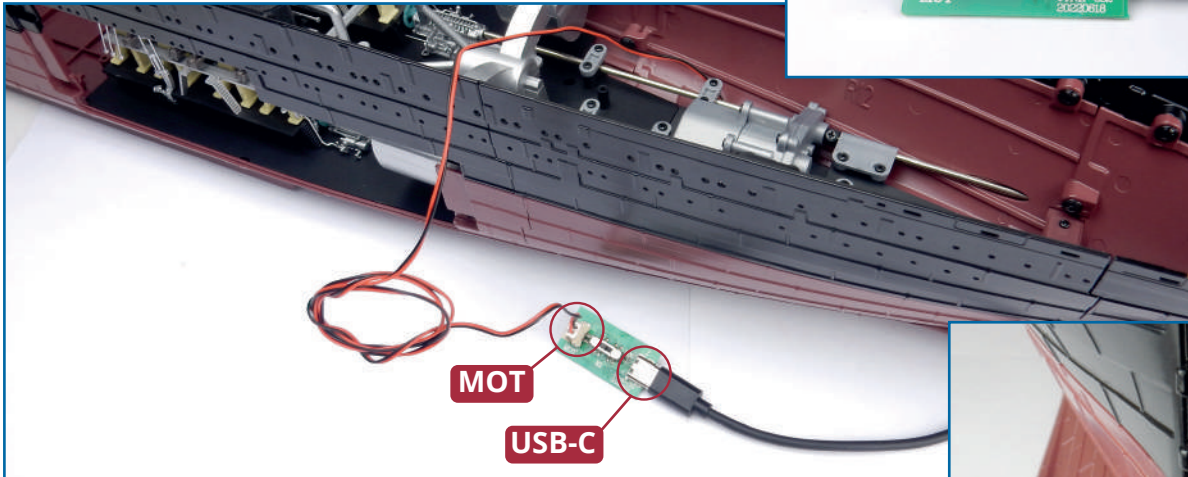


7 Similarly, fit the starboard shaft **40A** (with propeller **40E**) through the support **114B**. On the inside, fit the shaft through part **40G**, then through a collar **114B** and into the gear box. Fix the collar in place with an **MP** screw. Fit the central shaft **40B** through the hole in the stern of the hull and under the fixing plate **114F**. Then thread the shaft through a collar **114B** and into the engine. Make sure that the collar is positioned next to the gear box so that it can rotate freely. If the collar is too close to **114F** it will not be able to rotate (see below). Fix the collar in place with an **MP** screw.

NOTE: The assembly of the central shaft **40B** shown here is only temporary. It will have to be adjusted again for the final assembly. For this reason, do not tighten the screw too much.



8 To check that everything is working properly, run a test as described in **issue 40** (step 4). Connect the USB cable to the USB socket of a desktop computer or to a 5V 1A or 2A power supply. All three propellers should rotate when the switch is in the “Ahead” position but only the port and starboard propellers rotate when the switch is in the “Astern” position.

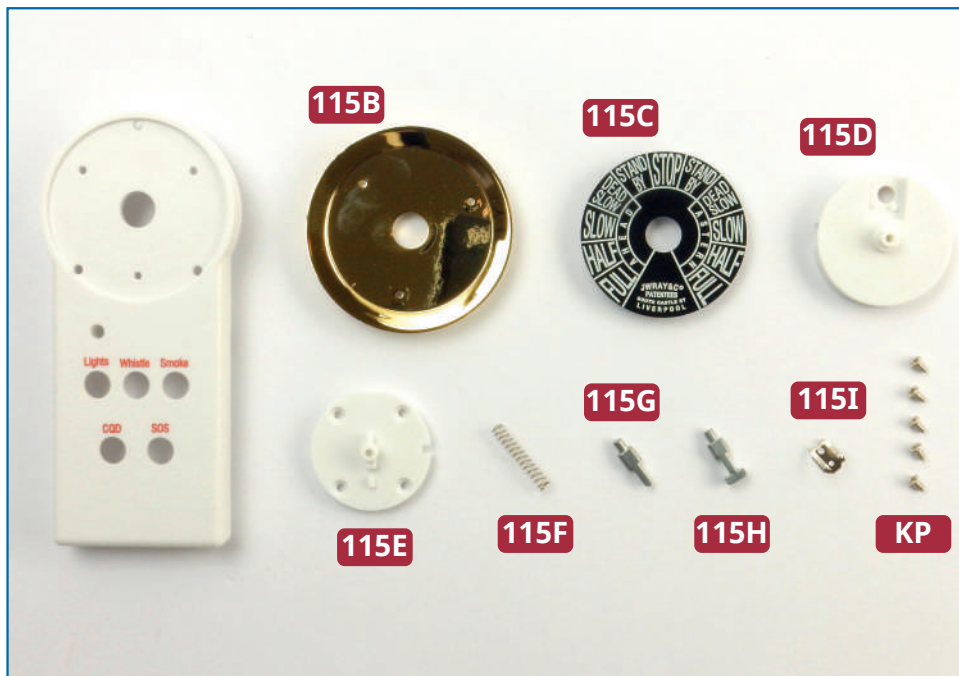


Completed work

The engine and propeller shafts have been fitted into the hull.



REMOTE CONTROL (PART 1)



PARTS IN THIS ISSUE

- 115A** Front of remote control

- 115B** Backing for telegraph dial

- 115C** Telegraph dial

- 115D** Disc A

- 115E** Disc B

- 115F** Spring

- 115G** Pin A

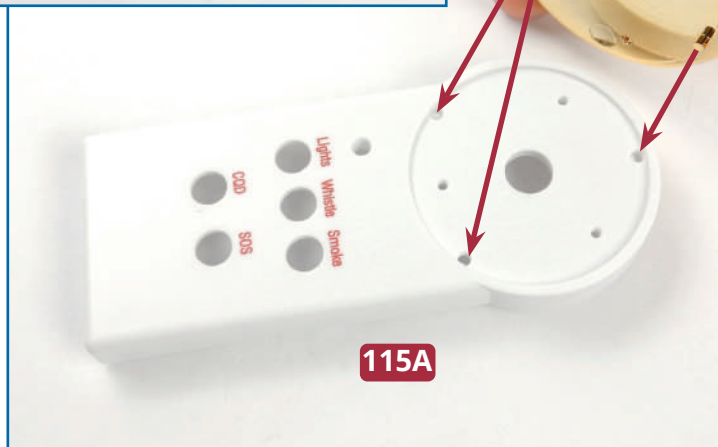
- 115H** Pin B

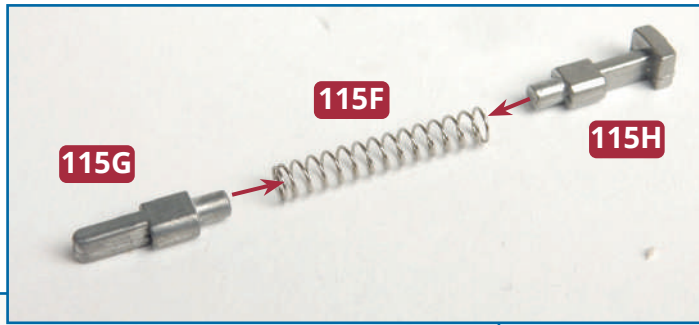
- 115I** Plate

- KP** Five PB screws (1 spare)

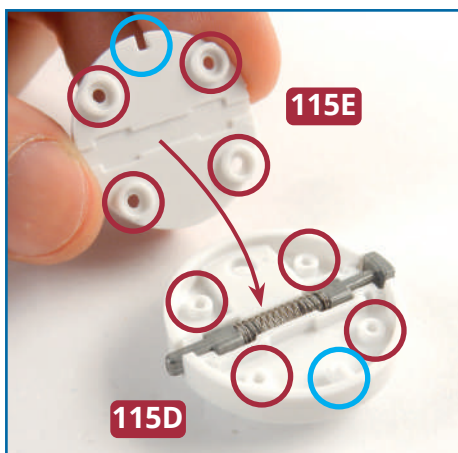
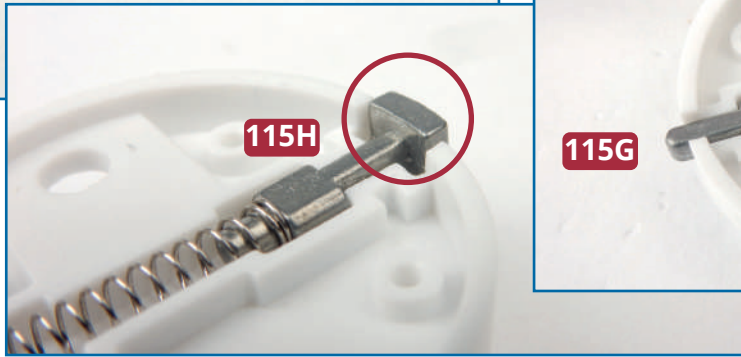
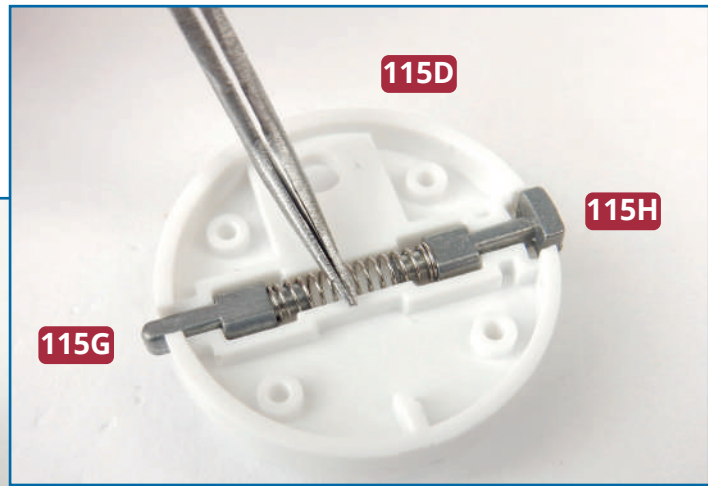
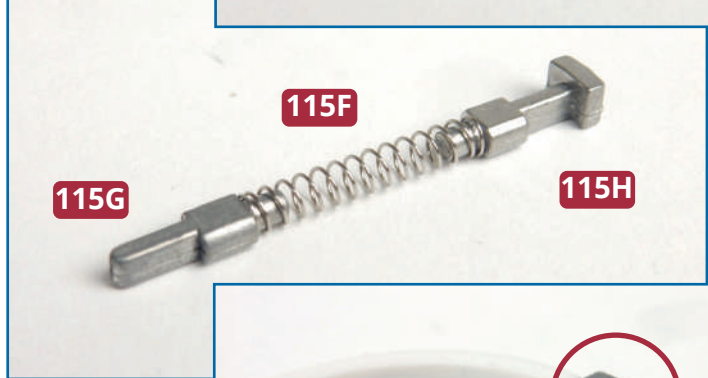


1 Take the front of the remote control **115A** and the backing of the telegraph dial **115B**. Fit the pegs on part **115B** into the holes in the front of the remote control **115A**, as indicated. Three screw holes in part **115B** align with holes in part **115A**.

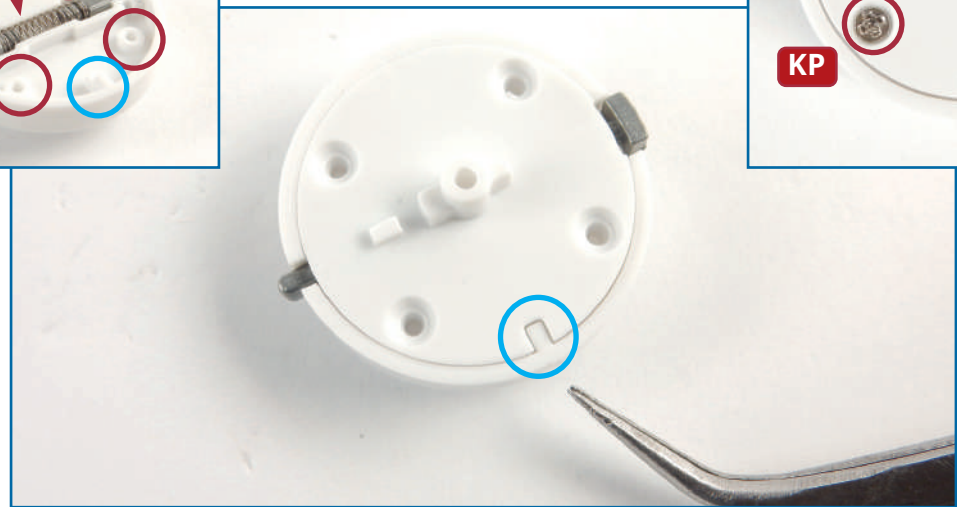
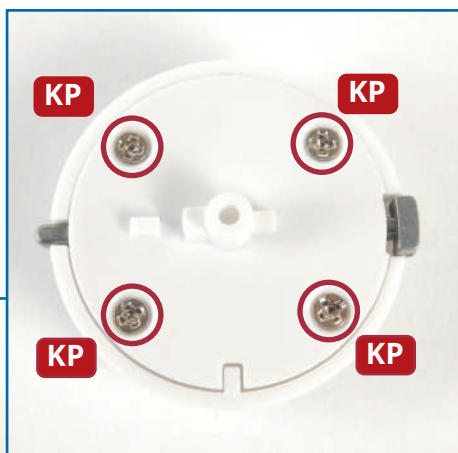




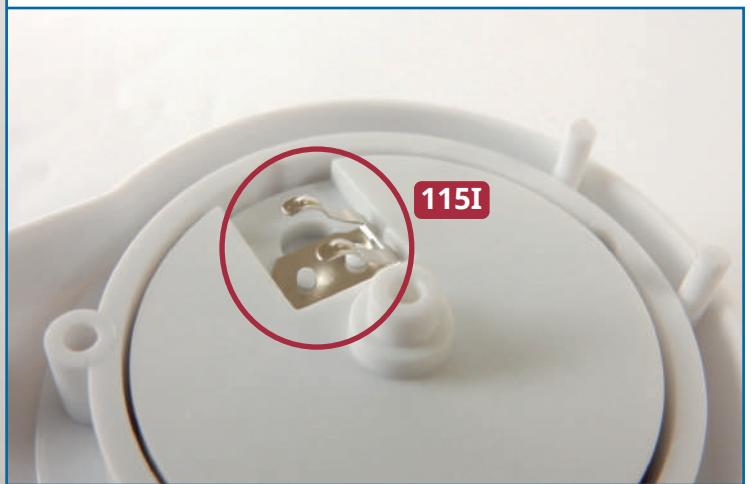
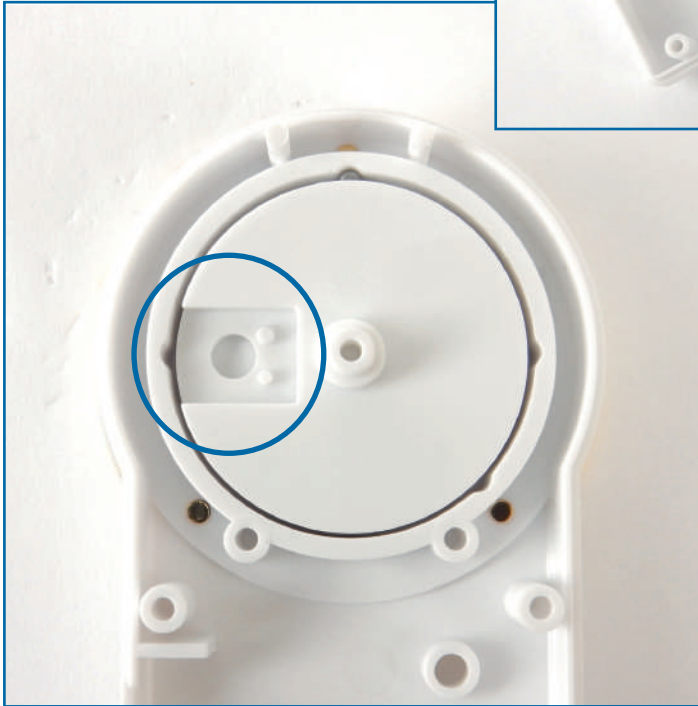
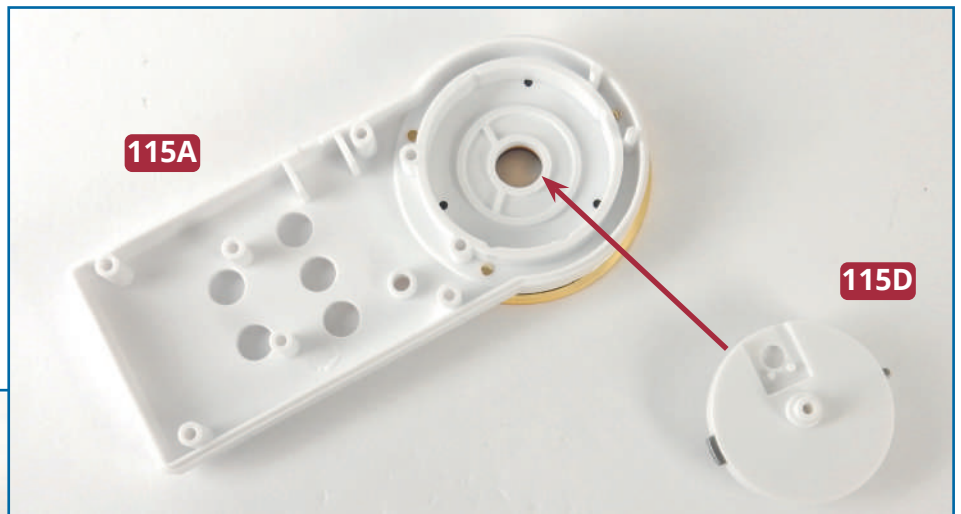
3 Fit the cylindrical ends of the pins **115G** and **115H** into the spring **115F**, as shown. Then place the pins and spring into the recess in Disc A **115D**. Note how the outer ends of the pins **115G** and **115H** fit into the rim of the disc **115D** (below).



4 Fit Disc B **115E** over Disc A **115D**. Check that the screw holes are aligned and the tab in part **115D** fits into the notch in part **115E** (circled in blue). Fix the discs together with four **KP** screws.



5 Check how the disc assembly fits inside the front of the remote control panel **115A**. Check that the recess in part **115D** is in the correct position (circled in blue, below). Fix the plate **115I** in the recess, pressing it in place on the two pegs.

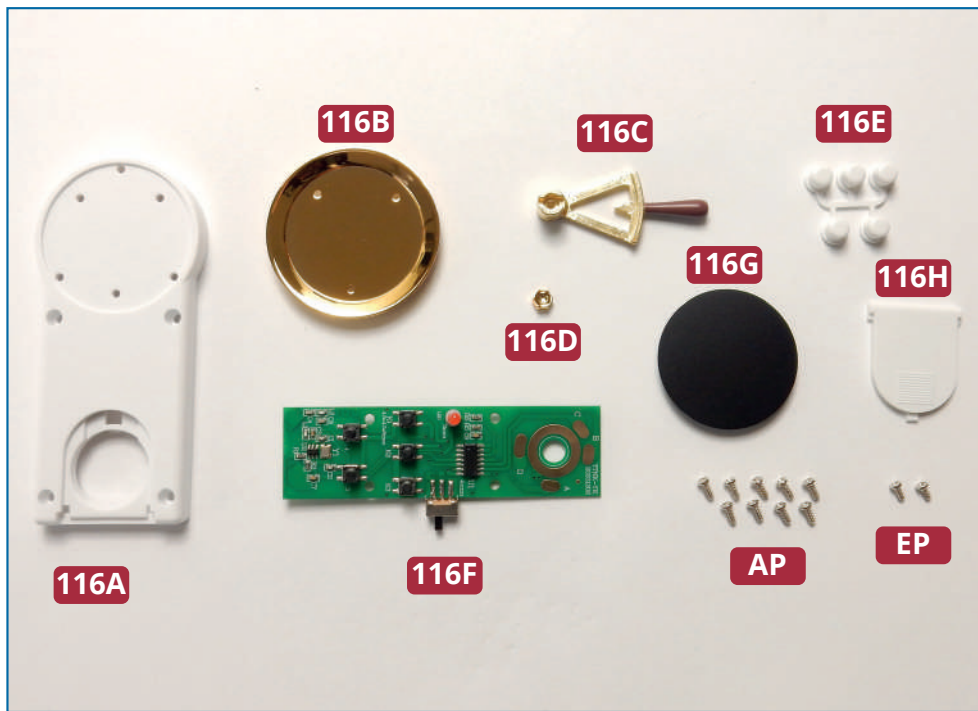


Completed work

The first part of the remote control has been assembled.



REMOTE CONTROL (PART 2)



PARTS IN THIS ISSUE

- 116A** Back of remote control

- 116B** Rear rim of telegraph

- 116C** Control handle

- 116D** Screw cap

- 116E** Buttons

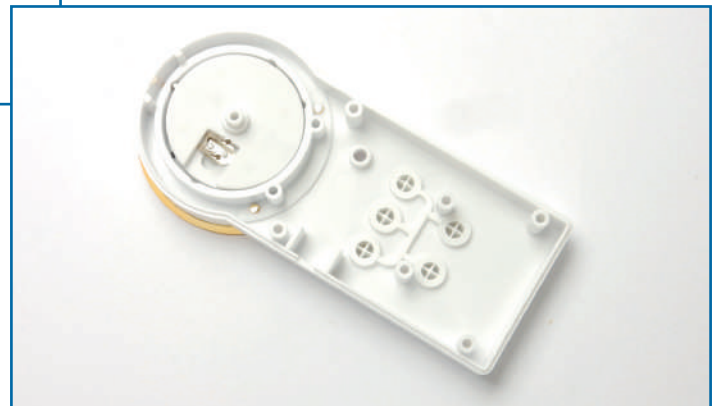
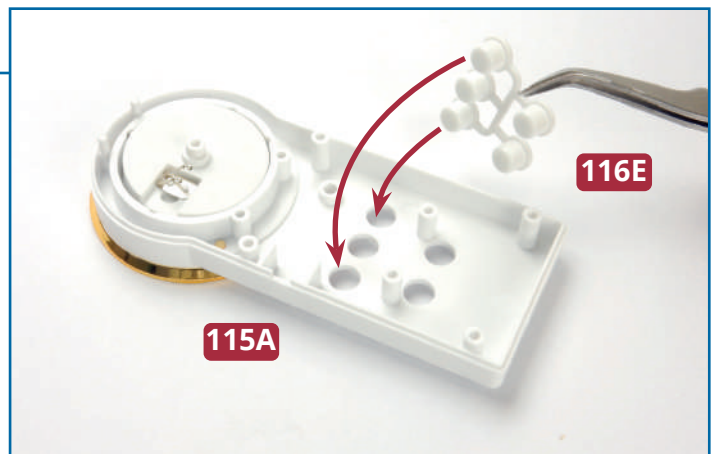
- 116F** Circuit board

- 116G** Back panel

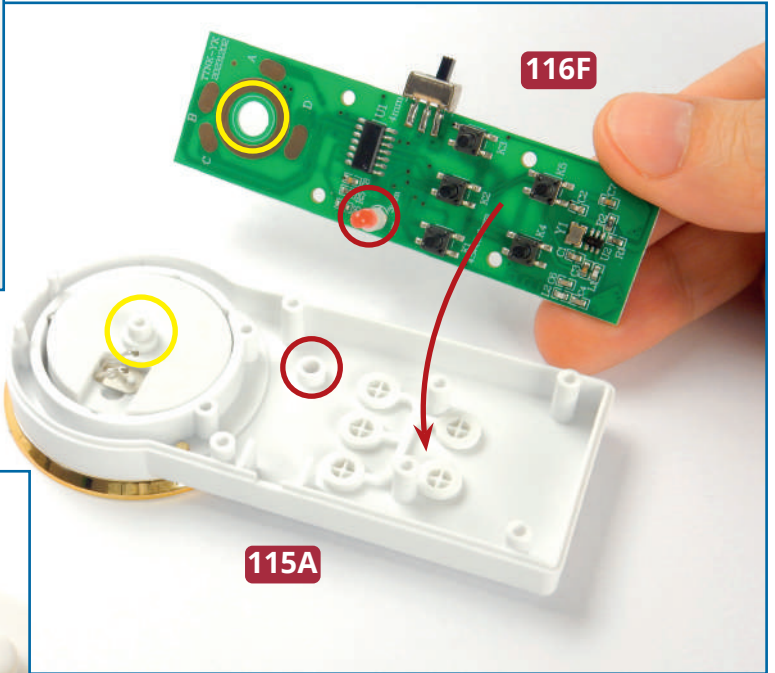
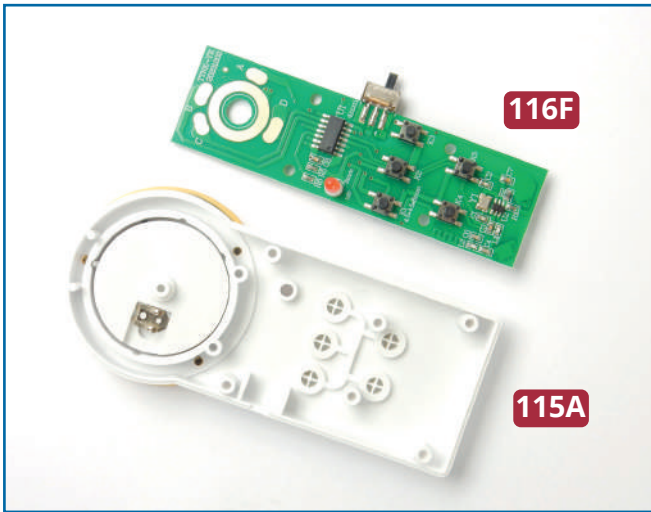
- 116H** Battery cover

- AP** Nine 2.3 x 5mm PB screws (1 spare)

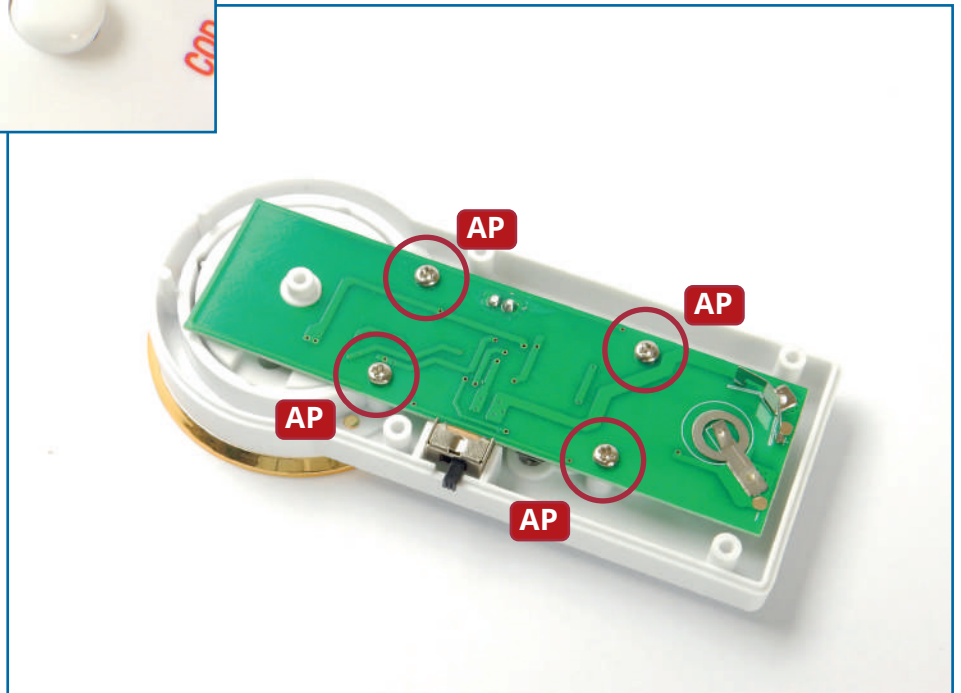
- EP** Two PB screws (1 spare)

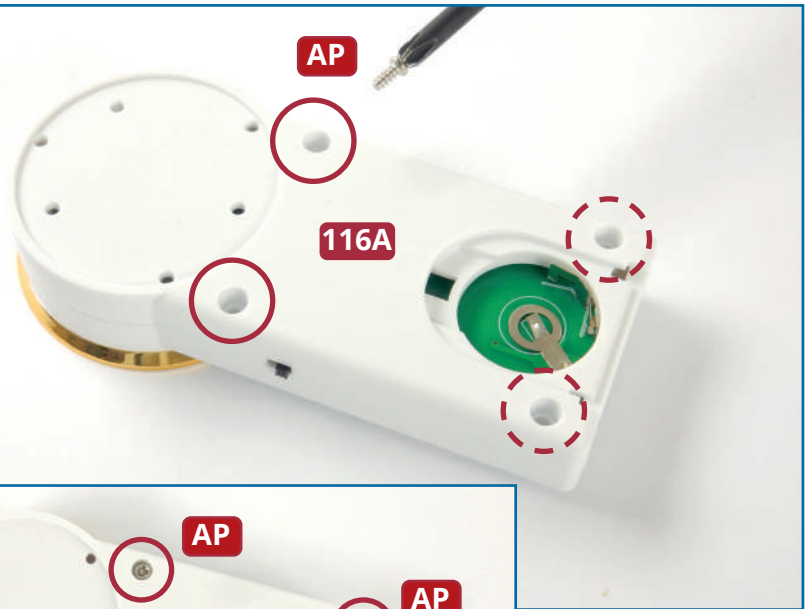
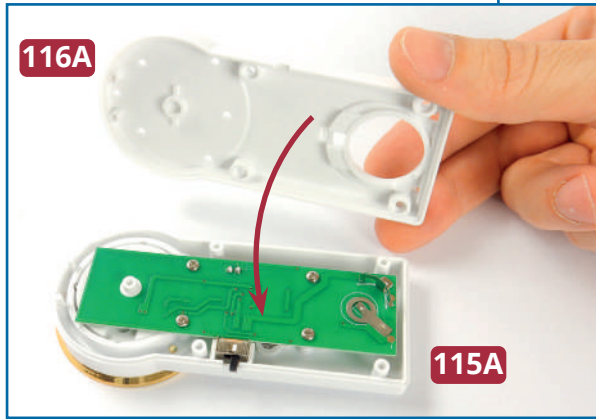


1 Take the front of the remote control assembled in the previous issue and the buttons **116E**. Fit the buttons in the holes in the front of the remote control **115A** as shown (right).

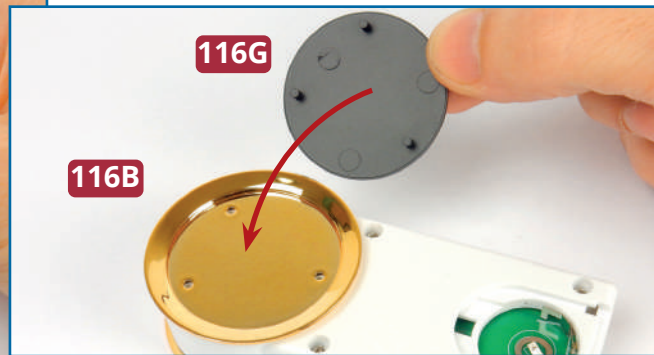
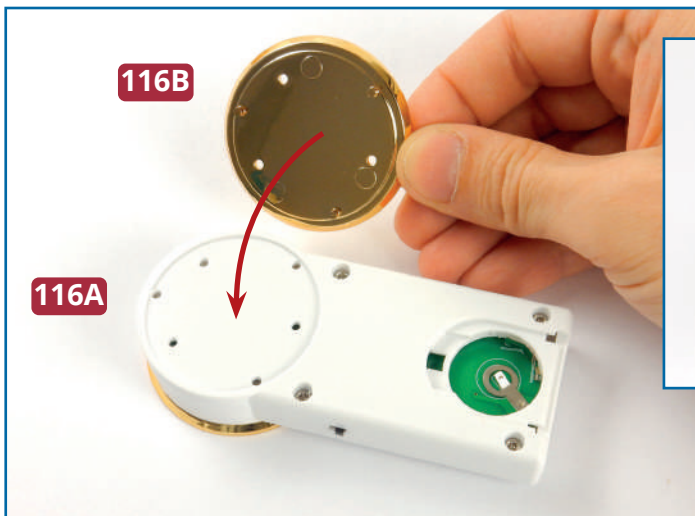
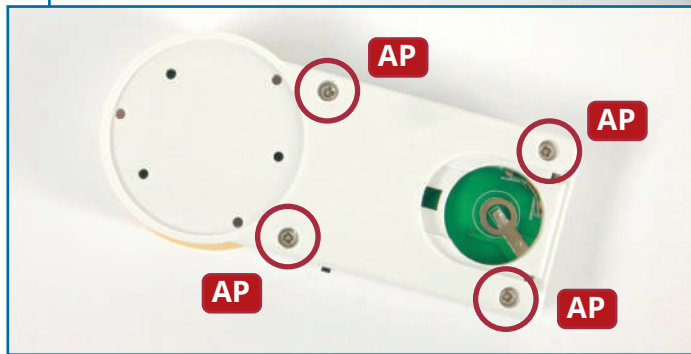


2 Position the circuit board **116F** inside the front of the remote control **115A**. Ensure that the red LED fits in the hole (circled in red) and the large hole fits on the peg in the centre of the part **115D** (circled in yellow). Fix the board in place with four **AP** screws. Do not over tighten the screws as this may damage the circuit board.



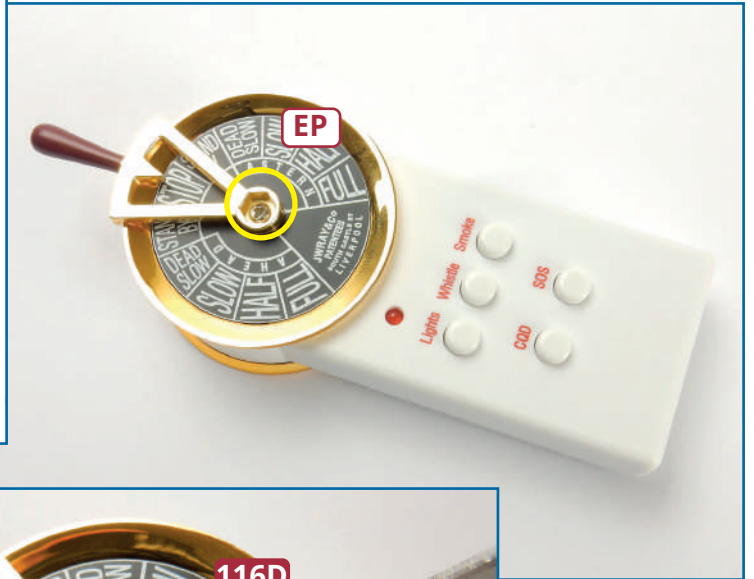


3 Fit the back of the remote control **116A** over the back of the assembly and fix in place with four **AP** screws.

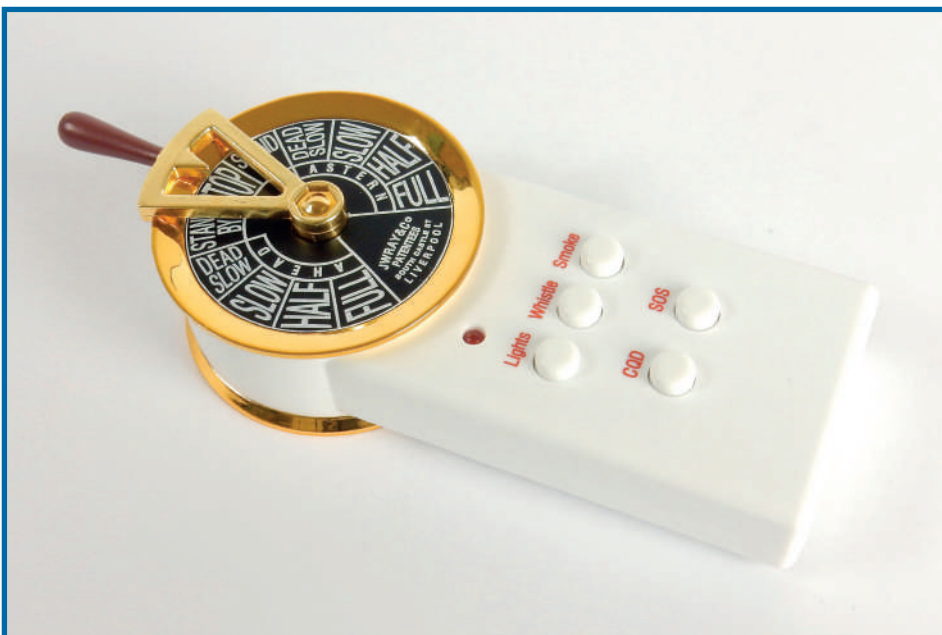
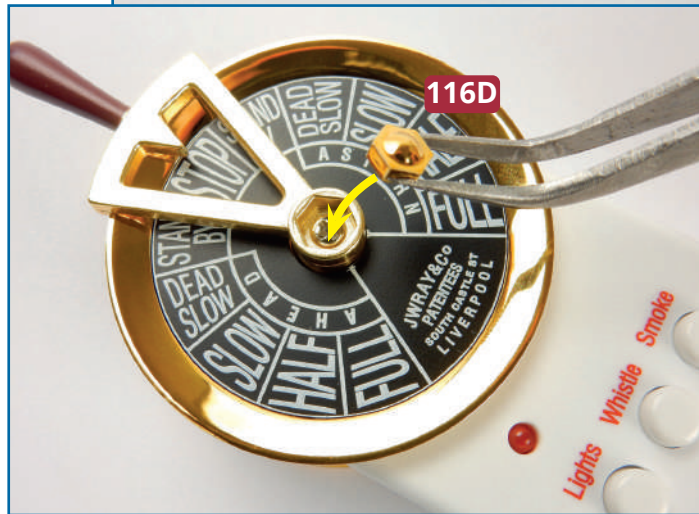


4 Position the rear rim of the telegraph **116B** as shown, fitting the pegs on the back into holes in part **116A** (above, left). Take part **116G** and fit the pegs into the holes in part **116B** (above). Slide the battery cover **116H** into the hole in the back of part **116A**.





5 Fit the control handle **116C** over the telegraph dial **115E** so that the screw hole fits in the centre of the dial. Fix the handle in place with an **EP** screw (do not over tighten the screw, as the handle must be able to move). Fit the screw cover **116D** over the screw. At a later stage, you can glue the cover in place if necessary, but do not do this until you have checked that everything is working correctly. Details on the operation of the remote control will be supplied in a future issue.



Completed work

The remote control has been assembled.