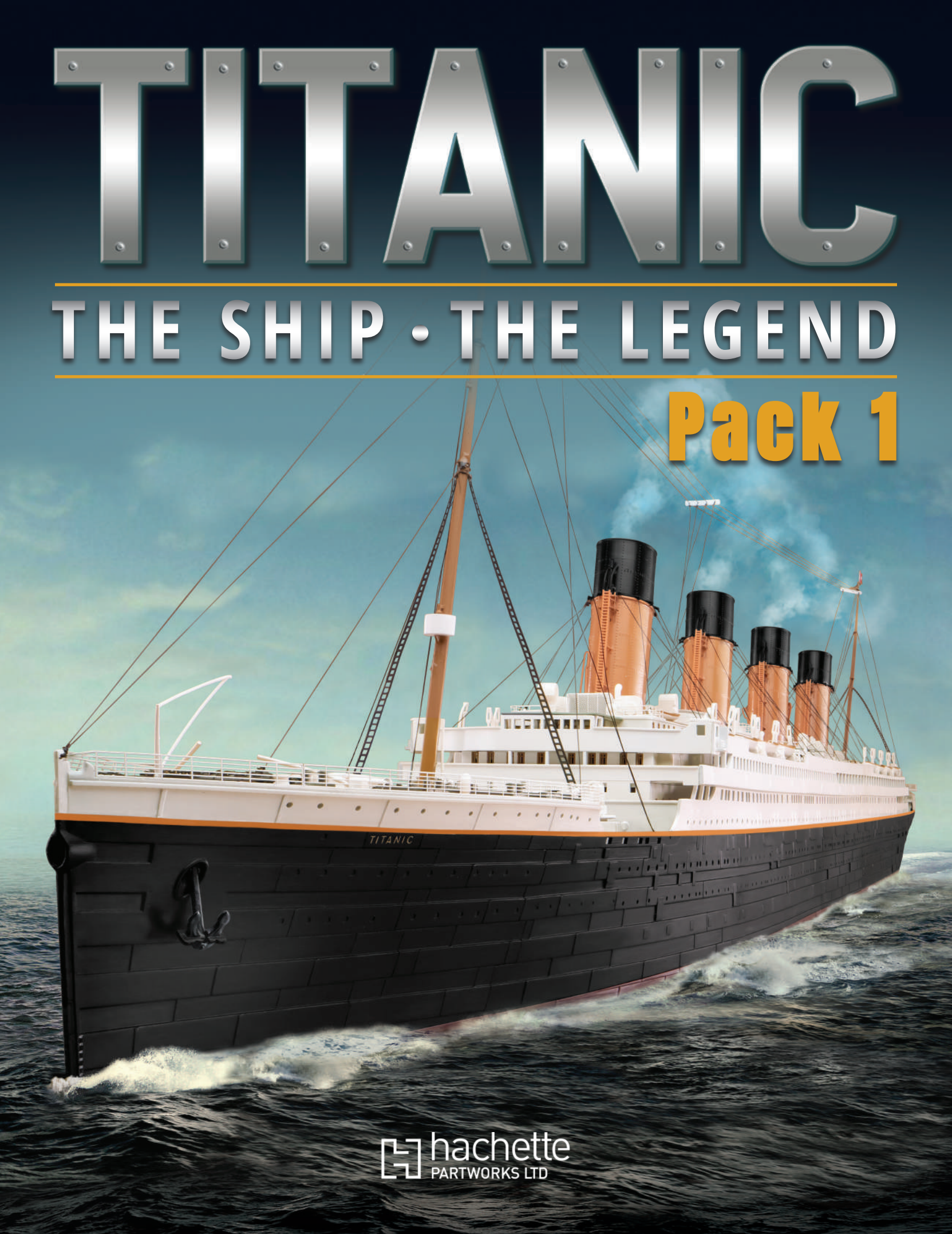
TITANIC

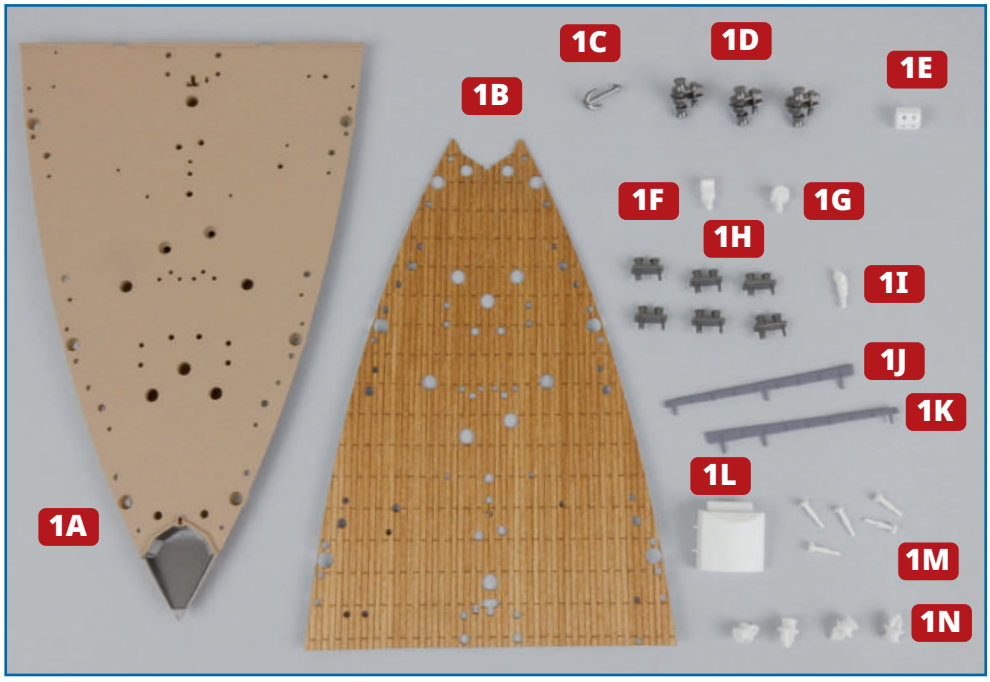
THE SHIP · THE LEGEND

Pack 1



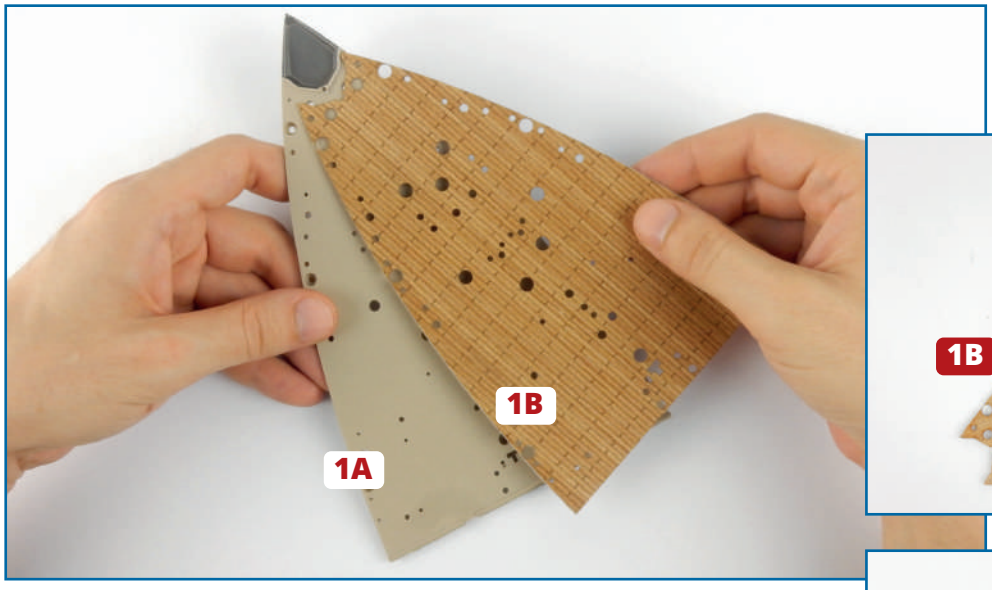
hachette
PARTWORKS LTD

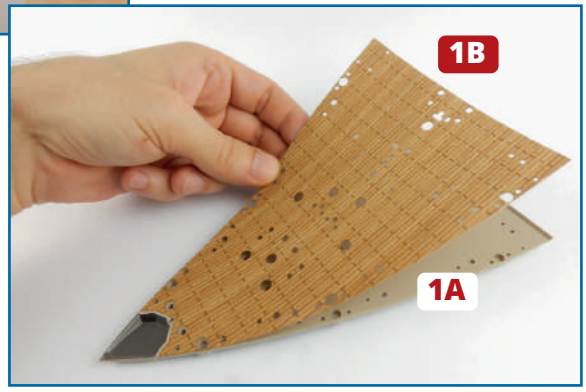
The Forecastle



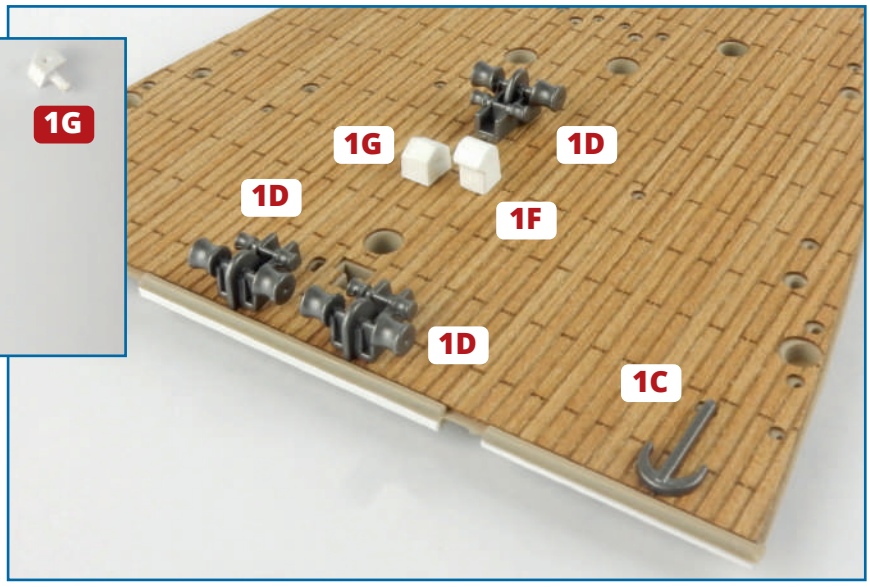
PARTS IN THIS ISSUE

- **1A** Deck support panel
- **1B** Wooden deck for the forecastle
- **1C** Anchor
- **1D** Steam winch (x 3)
- **1E** Small skylight
- **1F** Air vent (rounded)
- **1G** Air vent (square)
- **1H** Bitts (bollards) (x 6)
- **1I** Ventilation duct
- **1J** Breakwater
- **1K** Breakwater
- **1L** Loading hatch
- **1M** Steam valves (x 4, 1 spare)
- **1N** Capstans (x 4)

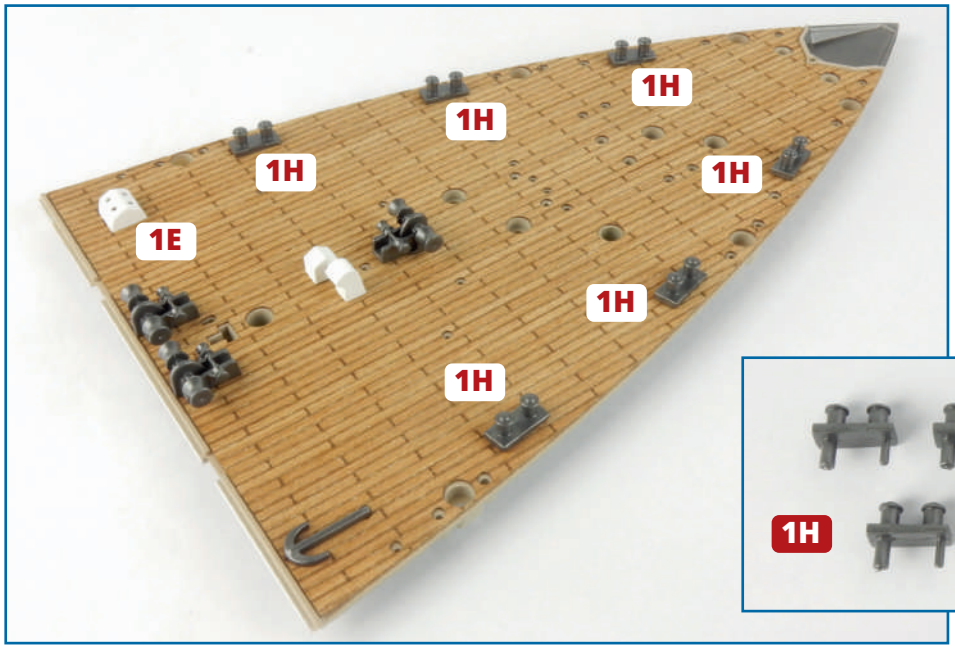




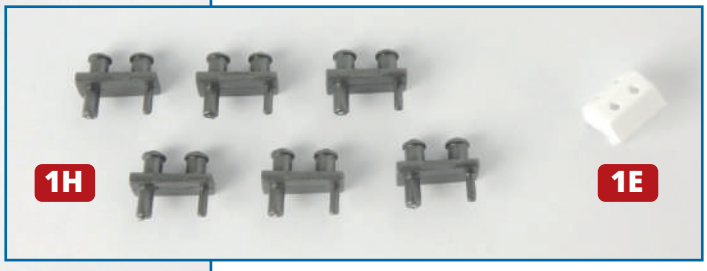
1 Check how the wooden decking **1B** fits on the deck support panel **1A**. Carefully peel the backing away from the wooden deck **1B** (inset, upper right), taking care not to bend the wood. **Note that the adhesive is extremely strong, so it is difficult to remove the deck for a second attempt.** Starting from the tip, stick the self-adhesive wooden deck **1B** on part **1A** (right) Make sure that the holes in the deck are aligned with those in the support, and that there are no air bubbles. Once the decking **1B** is in position, smooth it down with a soft, dry cloth.



2 Take the anchor **1C**, the three winches **1D** and the two air vents **1F** and **1G**. Identify the fixing points on the wide end of the forecastle deck. Ensure they are correctly oriented, as shown. These are push-fit connections – no glue is needed.



3 The next parts to be fitted are the six bitts (bollards) **1H** and the small skylight **1E**. Identify the fixing points around the sides of the forecastle deck and push the parts in place. If they are a tight fit, use a fine file or sandpaper to make the pegs smaller. Again, no glue is needed.



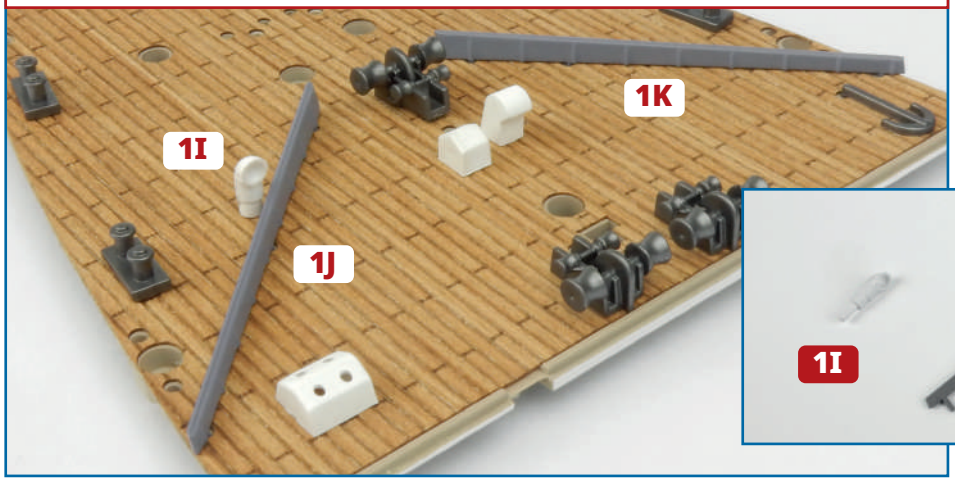
USING GLUE

Your *Titanic* model has been designed to make it easy to assemble, even if you do not have any previous modelling experience. For this reason, we have kept the use of glue to a minimum: most of the parts are fixed together with the screws supplied or by simply pushing pieces together (described as a push-fit connection).

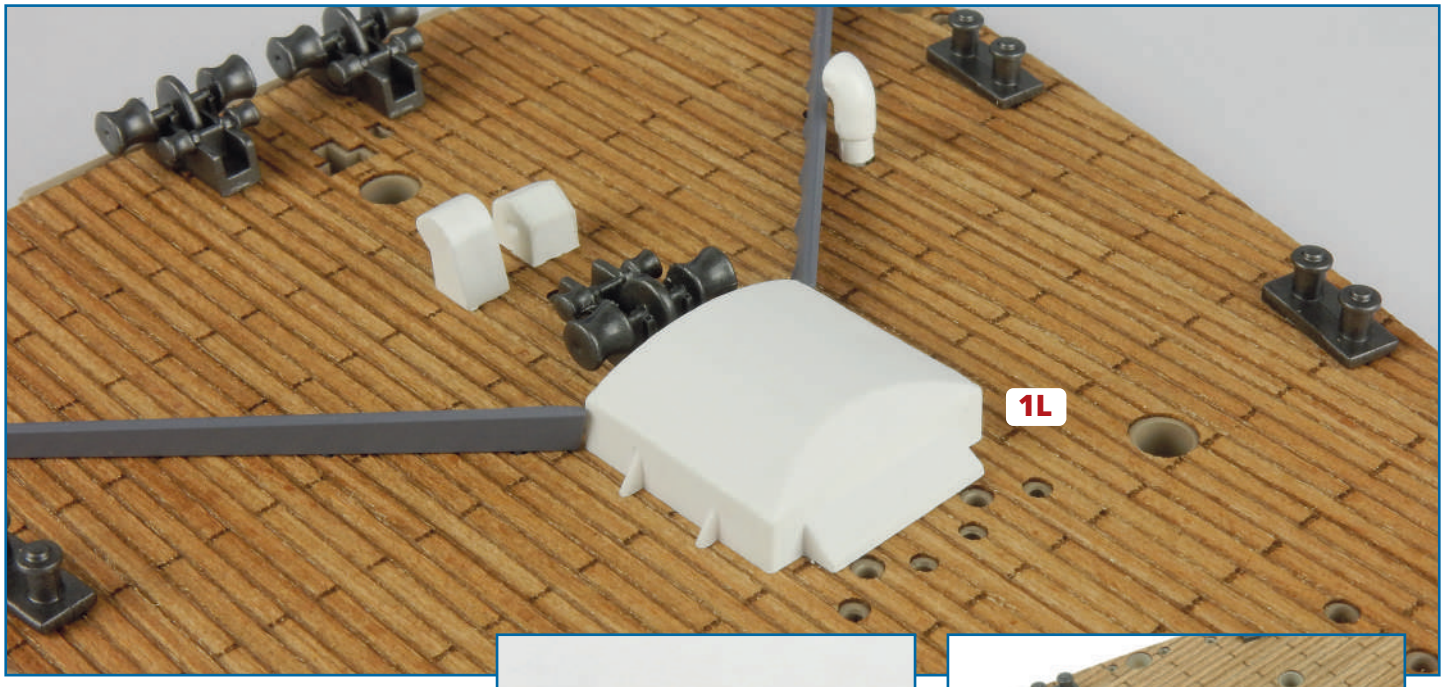
However, in some cases it is helpful to use some glue. We suggest using cyanoacrylate (superglue), which is strong and fast drying. When using it, apply in very small amounts. We recommend using a toothpick or cocktail stick to apply just a small drop at a time. Always follow the manufacturer's instructions in case of accidental contact with the skin.

Note that the pegs on the parts supplied in this issue are very delicate. Ensure that all the holes are clear before fitting them – use a fine file if necessary. If the pegs snap off, you may need to glue the parts in place.

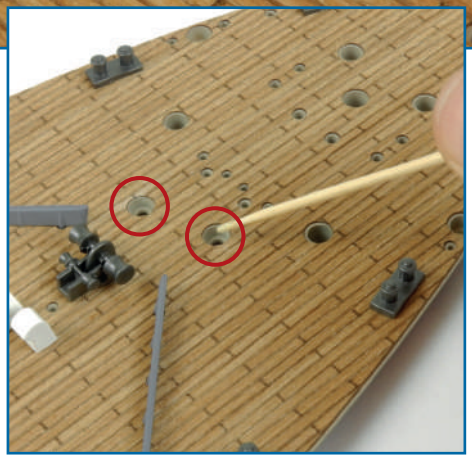
A replacement set of breakwaters will be supplied in Pack 3 that are closer in colour to the originals. Do not glue the parts **1J** and **1K** at this stage if you would like the option to use the replacements.

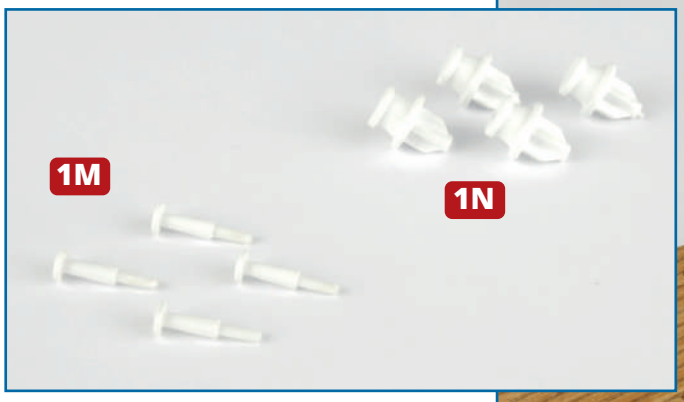


4 Take the ventilation duct **1I** and fit it on the deck between the central winch and the aft port bollard. The two breakwaters **1J** and **1K** are fitted diagonally on the deck: note that they slope down towards the outer edge of the deck and the ribs face aft.

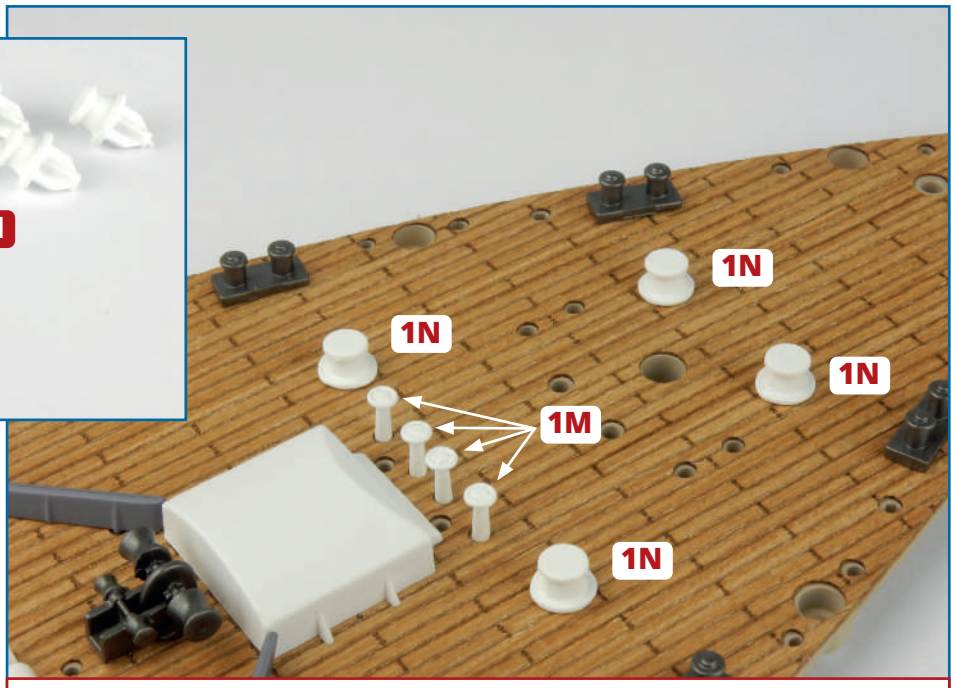


5 Identify the fixing point for the hatch **1L** in front of the breakwaters. Check the fit, then use a cocktail stick or similar to apply a little glue to the sockets (inset, far right). Fix the hatch in place, as shown (above).

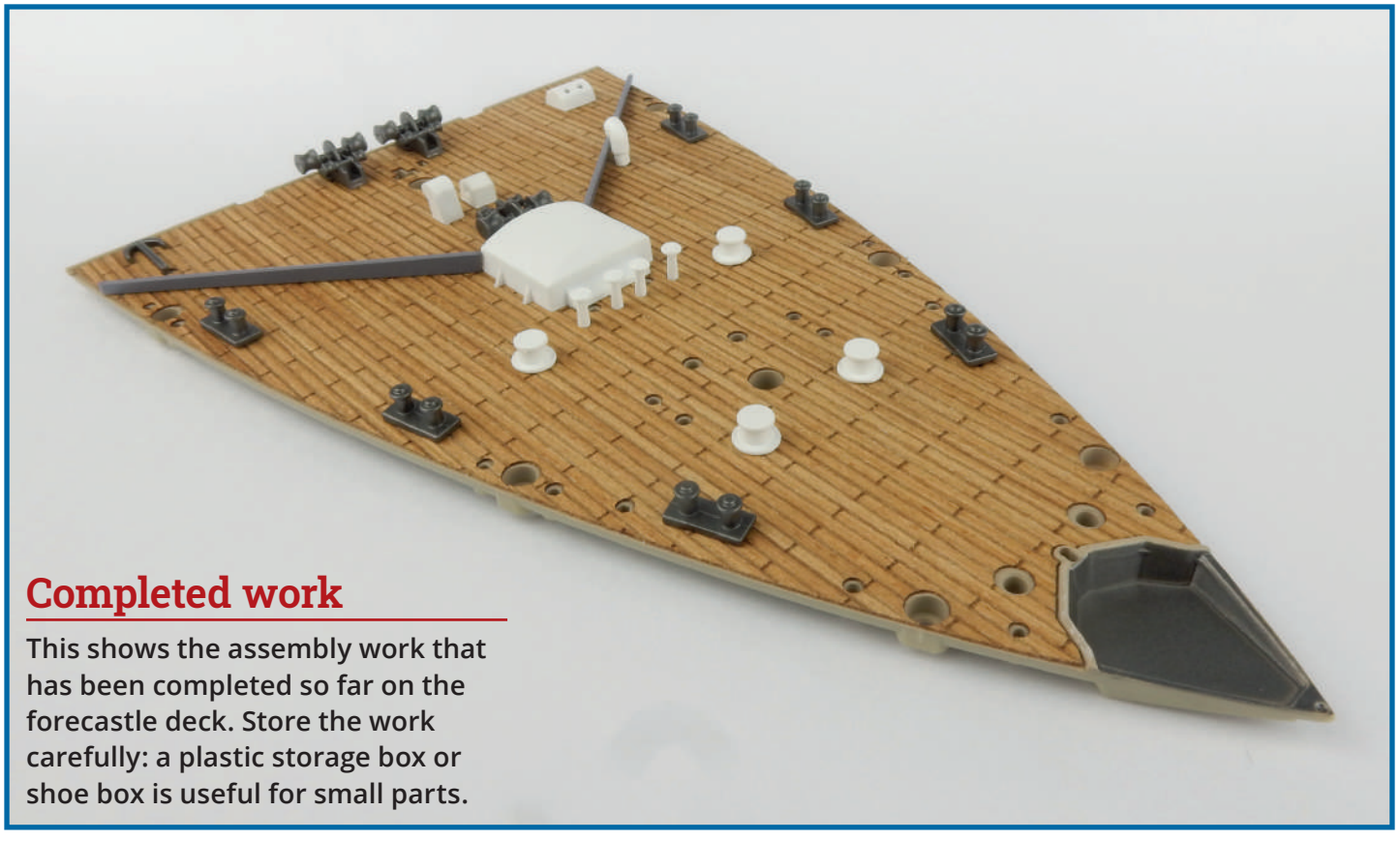




6 Take the steam valves **1M** (five are supplied, but one is spare). Fit them into the four small holes in front of the hatch. If they are a tight fit, sand down the pegs with sandpaper or a fine file. The four capstans **1N** are fitted as shown, near the four forward bitts. These are push-fit connections, no glue is needed.



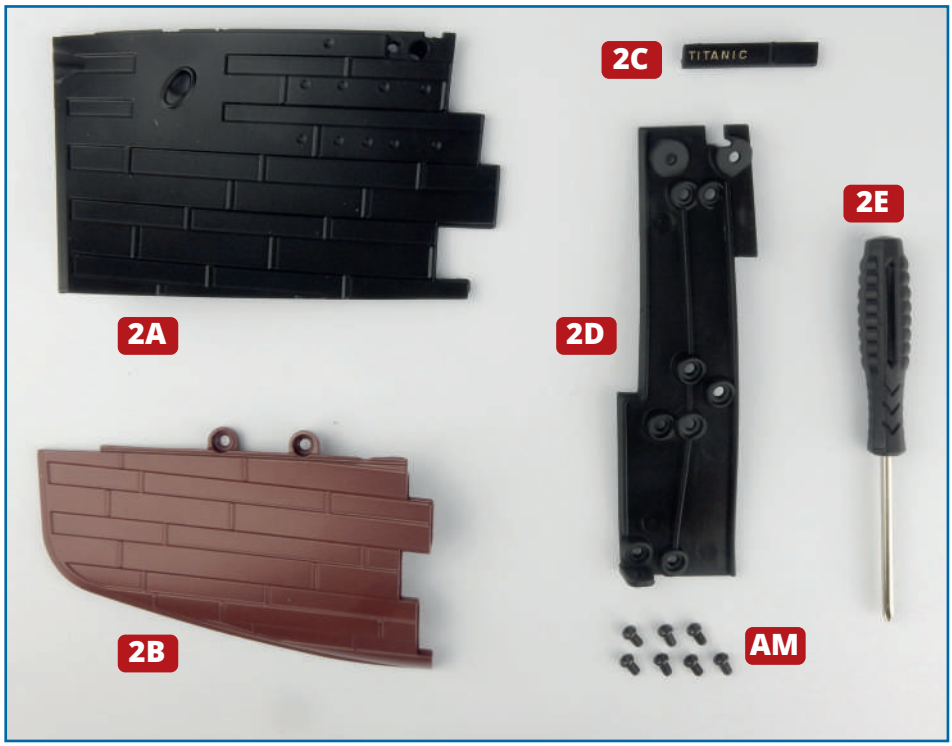
Replacement sets of steam valves and capstans will be supplied in Pack 3 that are closer in colour to the originals. Do not glue the parts **1M** and **1N** at this stage if you would like the option to use the replacements.



Completed work

This shows the assembly work that has been completed so far on the forecastle deck. Store the work carefully: a plastic storage box or shoe box is useful for small parts.

Starting to Assemble the Hull



PARTS IN THIS ISSUE

2A Port hull section (bow, upper)

2B Port hull section (bow, lower)

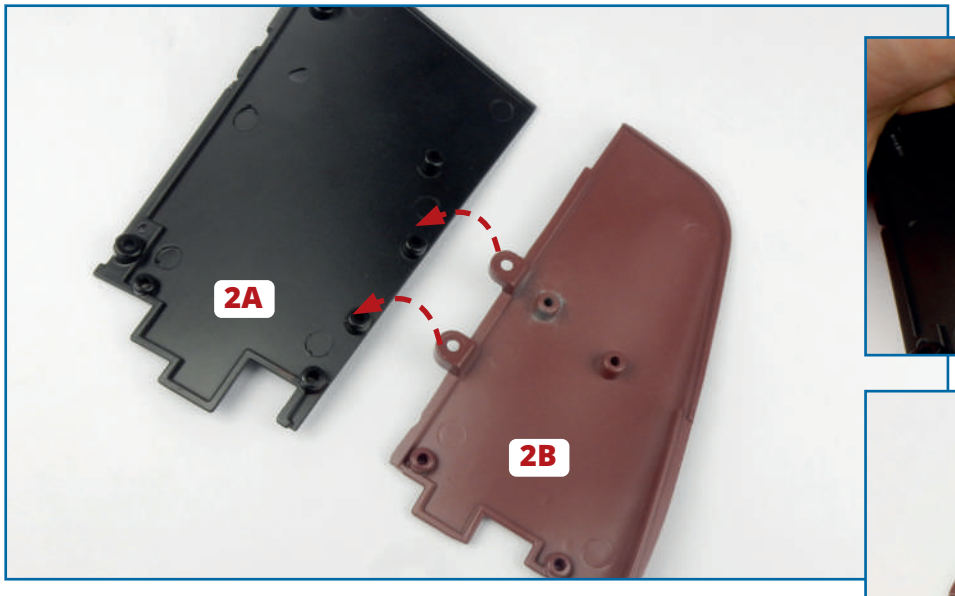
2C Name plate

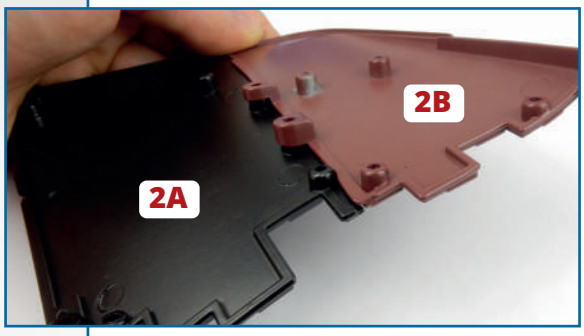
2D Connecting panel

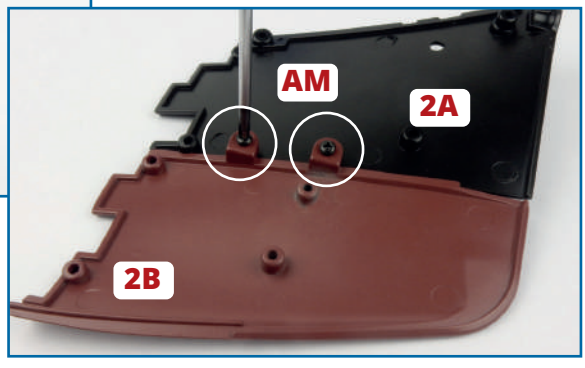
2E Cross-head screwdriver

AM Seven 6 x 4mm PM screws (1 spare)

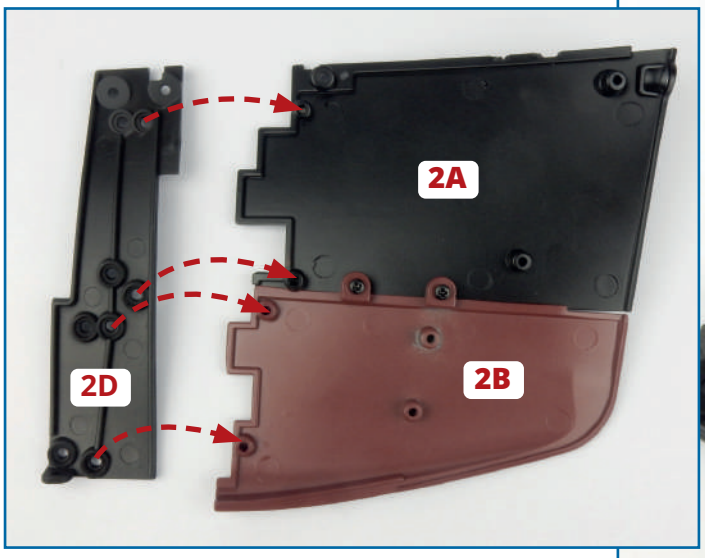
TIP: If you find the screws are tight to fit, unscrew them and then tighten them again. Alternatively, apply a little easing oil to the thread of the screws.

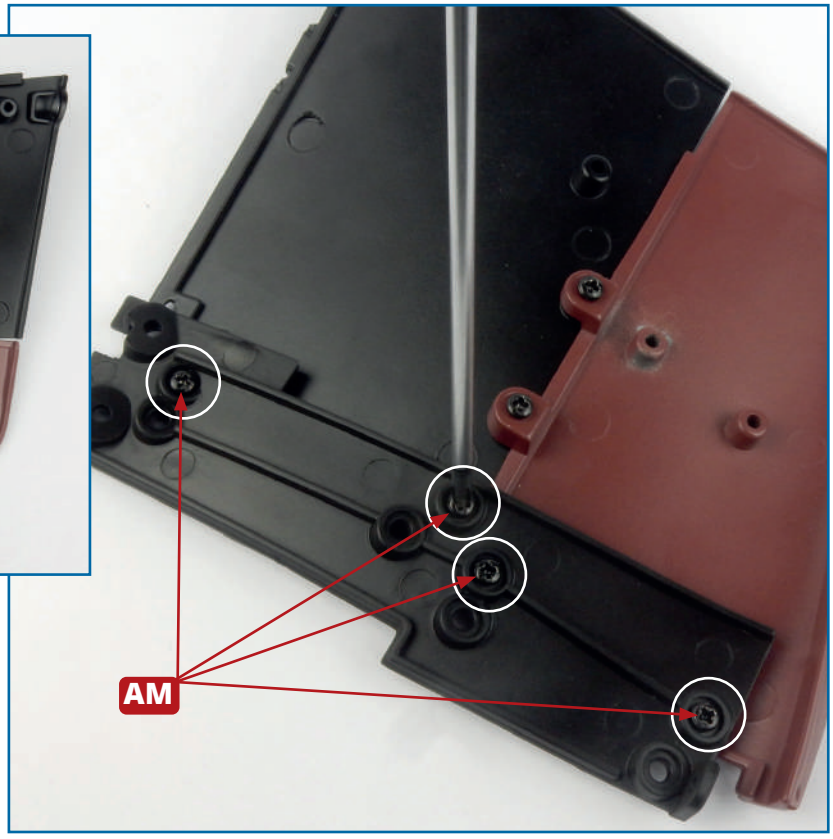






1 Take the upper and lower hull sections, **2A** and **2B**, for the starboard side of the bow and check how they fit together (inset, top right). Fix together with two **AM** screws (circled, right).



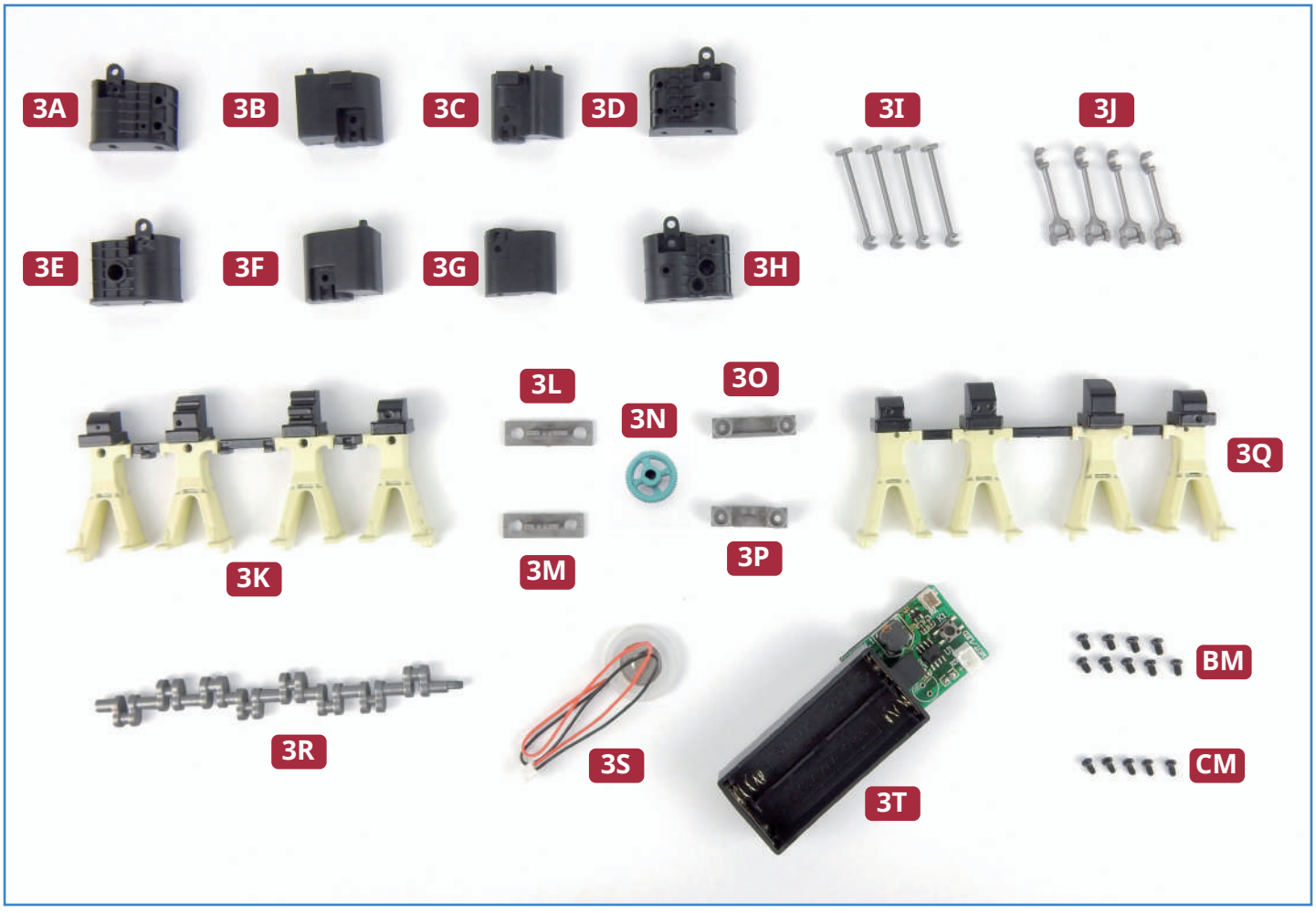


2 The connecting panel **2D** strengthens the joint between the hull sections **2A** and **2B** and provides fixing point for the next sections of the hull. Check how the parts fit together, so that screw holes are aligned (above). Fix together with four **AM** screws (circled, right).

Completed work

This shows the assembly work that has been completed so far on the hull. Store the name plate carefully until it is needed.

Engine and Smoke Generator

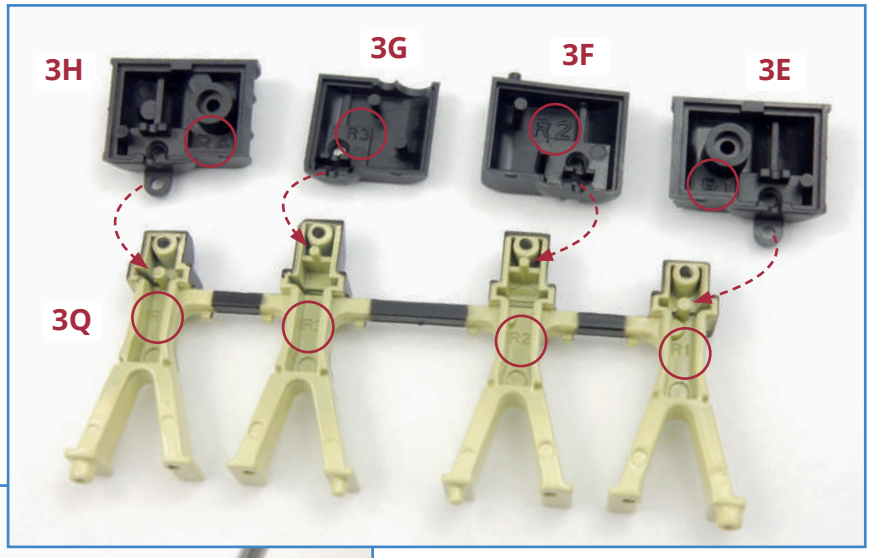


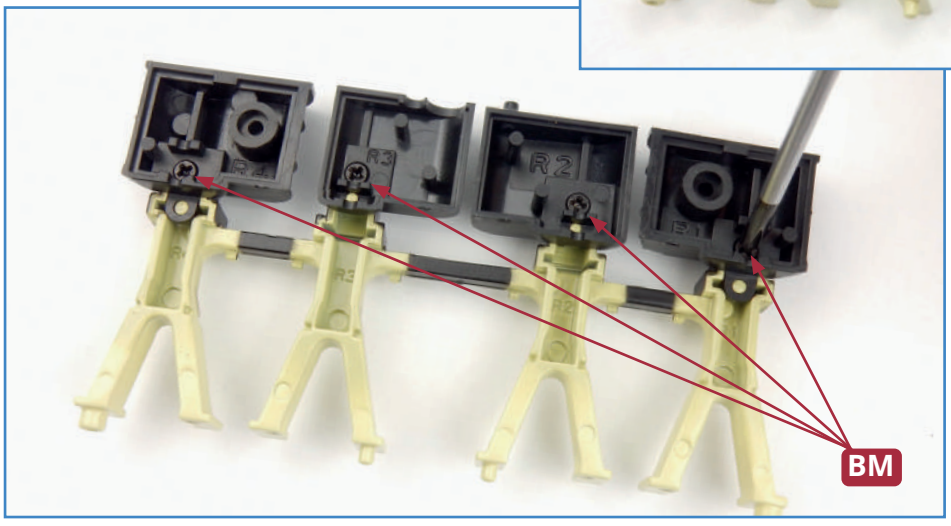
PARTS IN THIS ISSUE

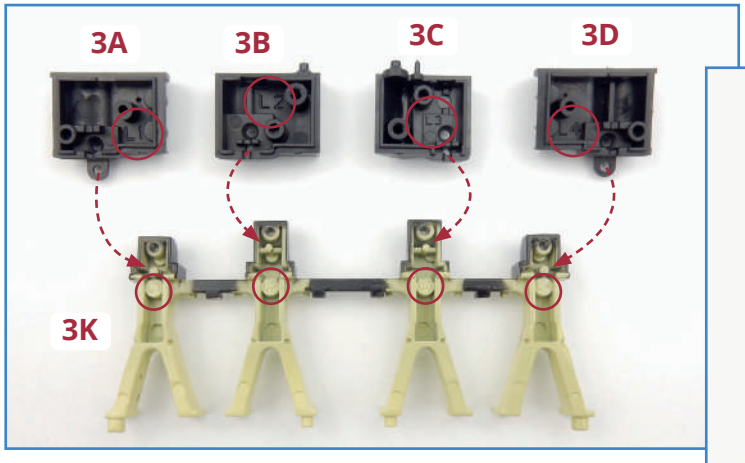
3A	Cylinder L1
3B	Cylinder L2
3C	Cylinder L3
3D	Cylinder L4
3E	Cylinder R1
3F	Cylinder R2
3G	Cylinder R3
3H	Cylinder R4
3I	Piston rod (x 4)
3J	Connecting rod (x 4)
3K	Columns for port side
3L	Stop plate (upper, front)
3M	Stop plate (upper, rear)
3N	Crankshaft cog
3O	Stop plate (lower, front)
3P	Stop plate (lower, rear)
3Q	Columns for starboard side
3R	Crankshaft
3S	Smoke generator
3T	Smoke generator tester unit
BM	Nine 2 x 4mm KM screws (1 spare)
CM	Five 1.7 x 4mm KM screws (1 spare)

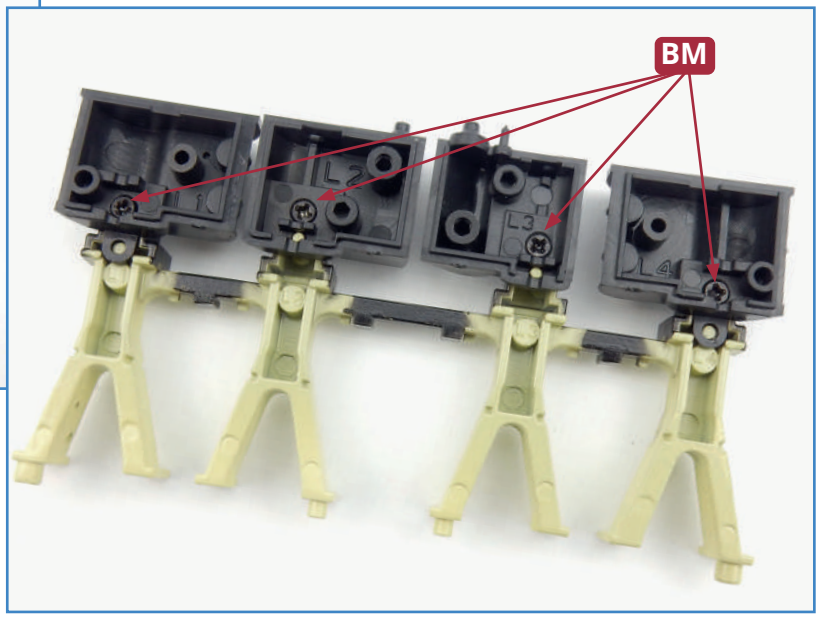
You will also need two AAA batteries.

1 Take the four starboard (right) cylinders (**3H**, **3G**, **3F** and **3E**) together with the columns for the starboard side, **3Q**. Note that the columns and the cylinders are marked R1, R2, R3 and R4 (circled). The tops of the columns fit into recesses in the outside of the cylinders so that a hole in each cylinder fits over a peg on the columns (arrow). Screw holes in each part must be aligned. Fix each cylinder in place with a **BM** screw (below), ensuring the screws are fully tightened.



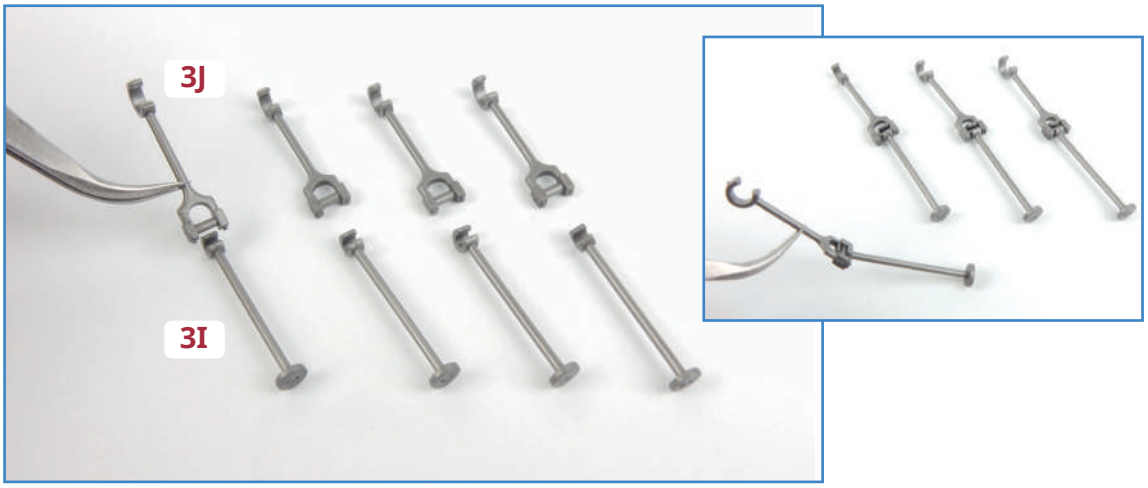




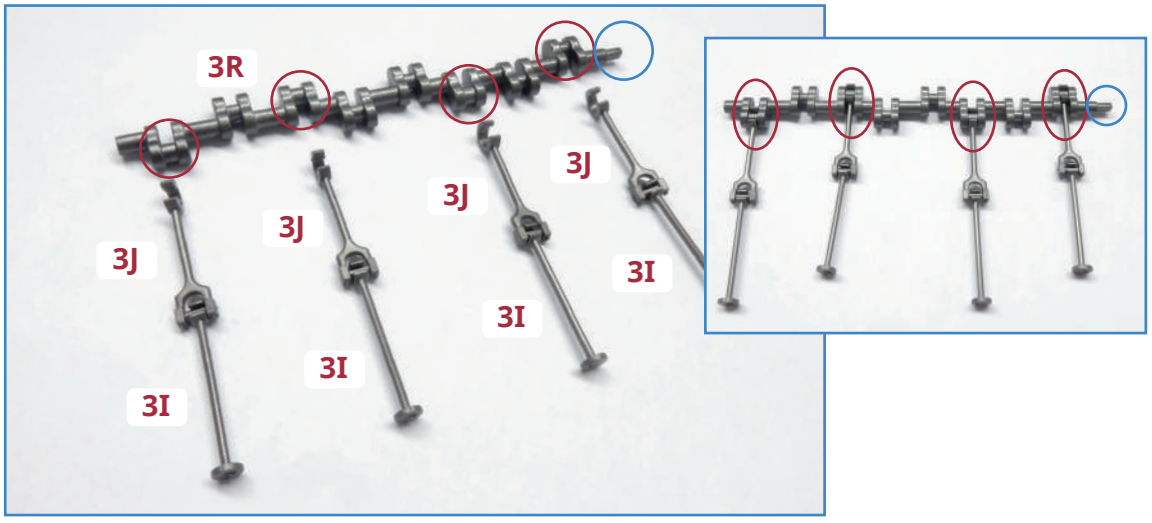


2 Similarly, take the four port (left) cylinders (**3A**, **3B**, **3C** and **3D**) and the port columns **3K**. Again, note that the parts are marked L1, L2, L3 and L4 (circled). Fit the tops of the cylinders onto the tops of the columns and fix each one in place with a **BM** screw (right), firmly tightened.

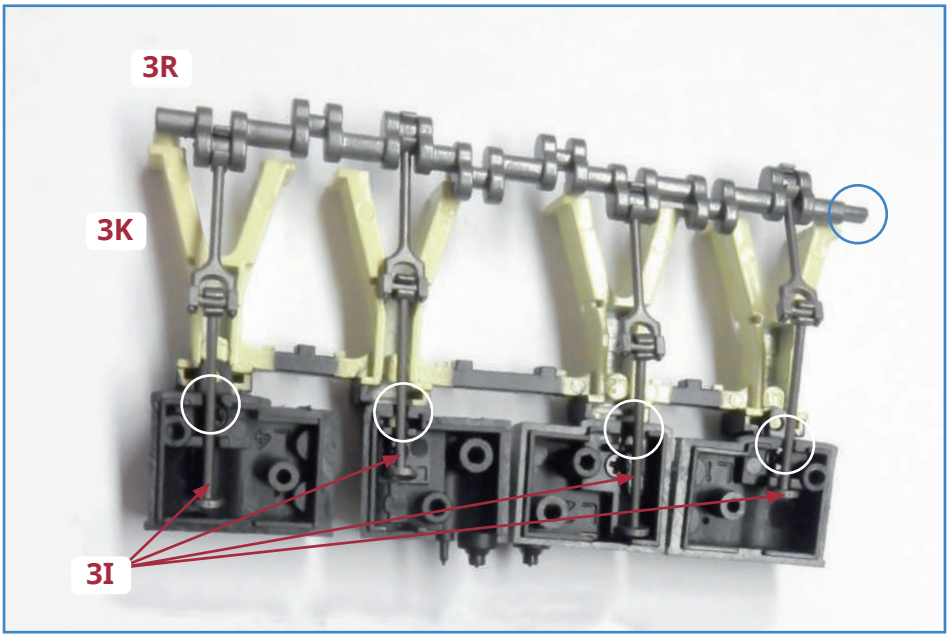
3 Take the four connecting rods **3J** and the four piston rods **3I**. Position them as shown, so that you can fit the stirrup-shaped ends of the connecting rods into the hook shaped ends of the piston rods. The connecting rods clip in place – do not glue them as they need to move (right).

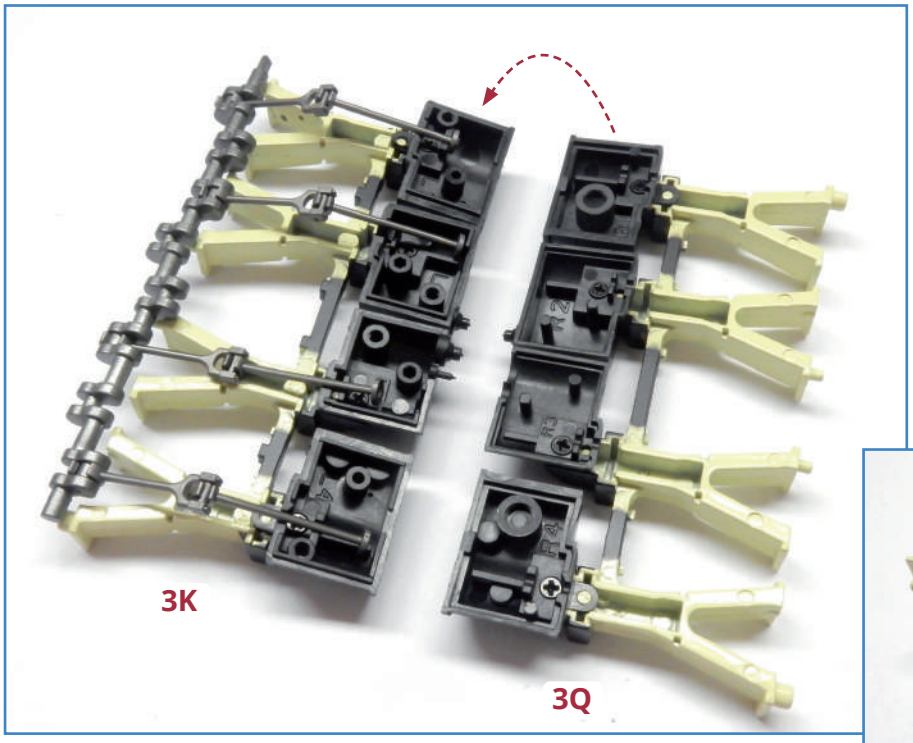


4 Take the crankshaft **3R** and position it in line with the hooked ends of the connecting rods **3J**. Note the position of the tapered end of the crankshaft, circled in blue. Clip the hooked ends of the connecting rods **3J** onto the bar connections on the crankshaft (circled). The inset shows the crankshaft assembly.

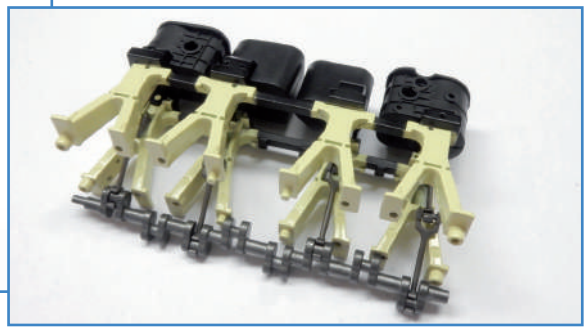


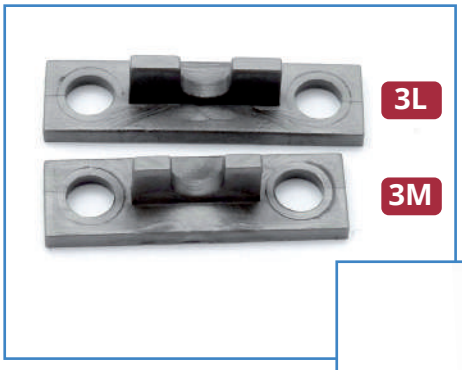
5 Place the port side columns **3K** on the work surface. Take the crankshaft and rod assembly and hold it above the column assembly so that you can fit the piston rods **3I** into the cylinders. The rods fit into grooves in the cylinders (circled in white). Note that each of the pistons should be at a different height in the cylinders. Take time to ensure that the piston rods are correctly fitted.





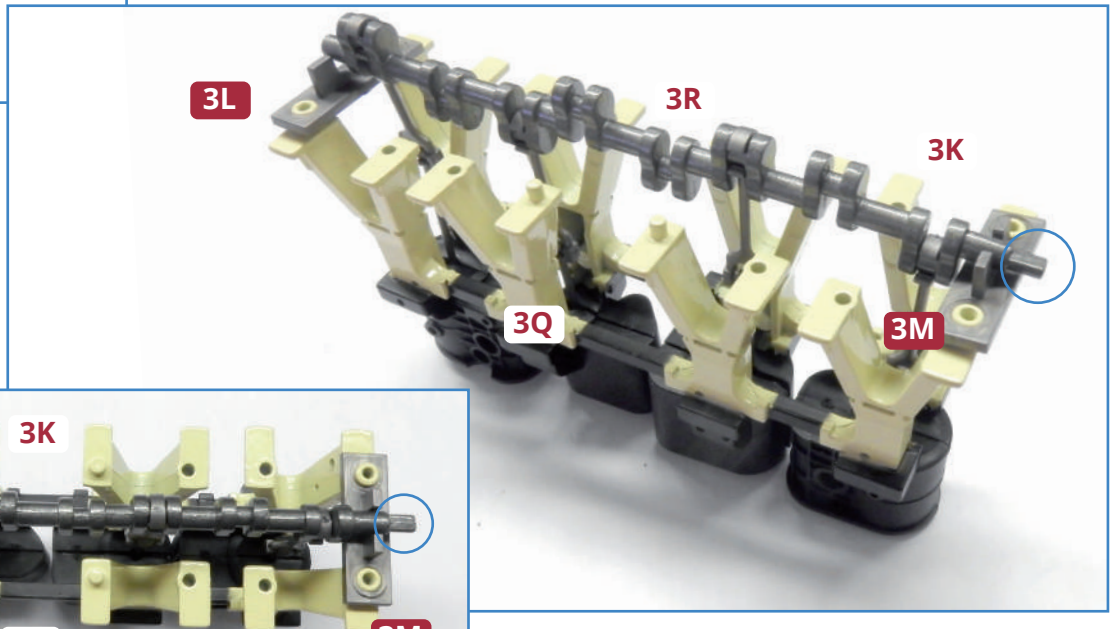
6 The next step is to fit the left and right halves of the cylinders together. Place the port columns **3K** on the worksurface and fit the starboard columns **3Q** on top of them so that the cylinders R1, R2, R3 and R4 match cylinders L1, L2, L3 and L4. Ensure that the piston rods are held in place. Push the halves of the cylinders together firmly. Do not use glue. The inset (below) shows the assembled parts.

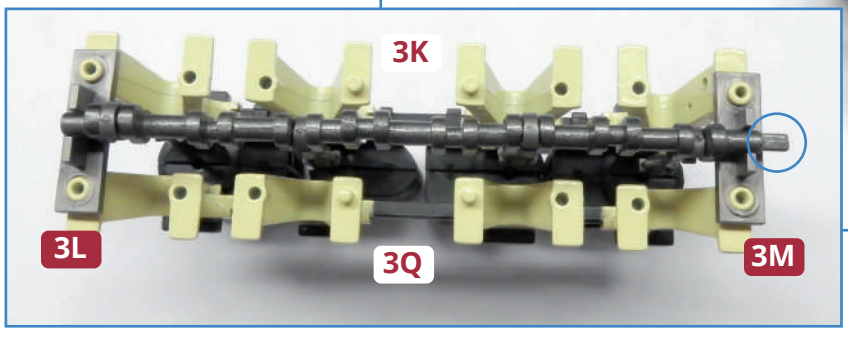




7 The stop plates hold the crankshaft in place: take the two upper plates **3L** and **3M**. Note that part **3L** (upper front) is longer (left). Fit the stop plates between the base of the columns and the crankshaft **3R** so that the ends of the crankshaft are cradled. The holes in the stop plates must be pushed firmly onto the raised screw sockets at the base of the columns (inset, bottom).

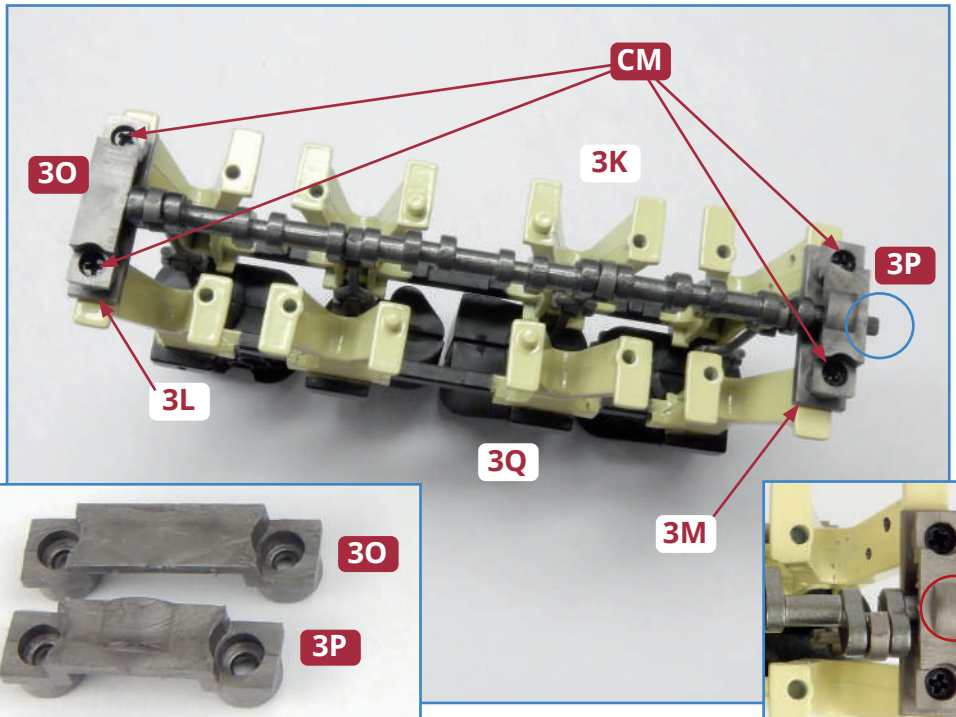
NOTE You may find it easier to complete this step with the cranked joints in the horizontal position.

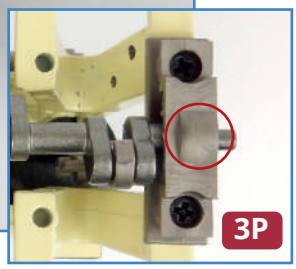




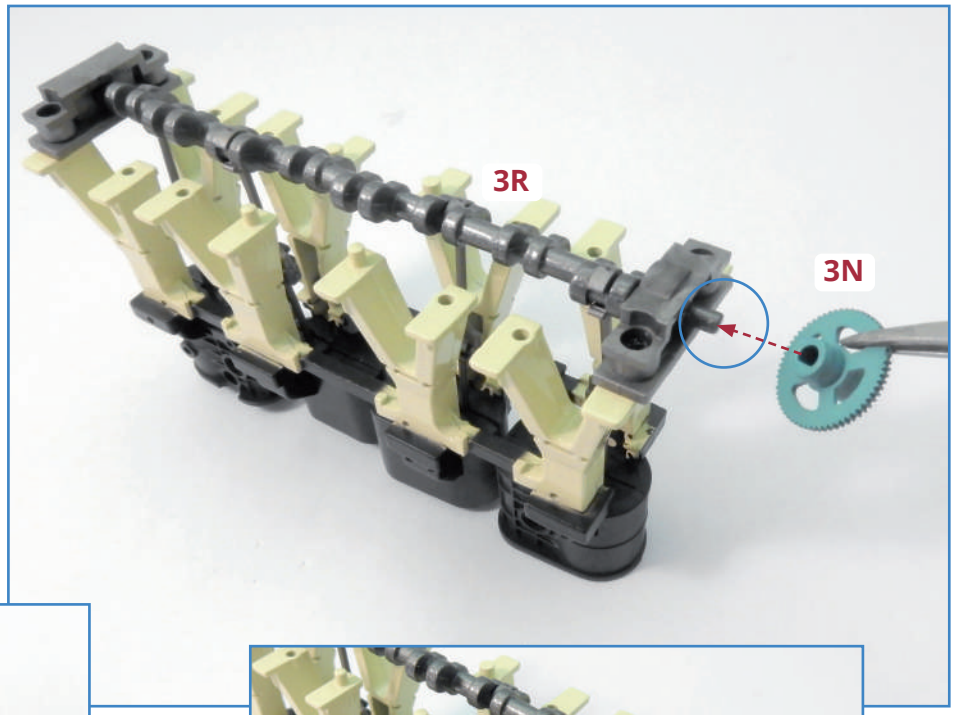
8 Take the two lower stop plates **3O** and **3P**. Again, note that part **3O** is longer (inset, left). Fit part **3O** against part **3L** so that the crankshaft **3R** is held in place. Part **3P** fits in line with part **3M**. Fix the stop plates to the columns **3Q** and **3K** with four **CM** screws, so that the crankshaft is held in place. Make sure that the screws are fully tightened.

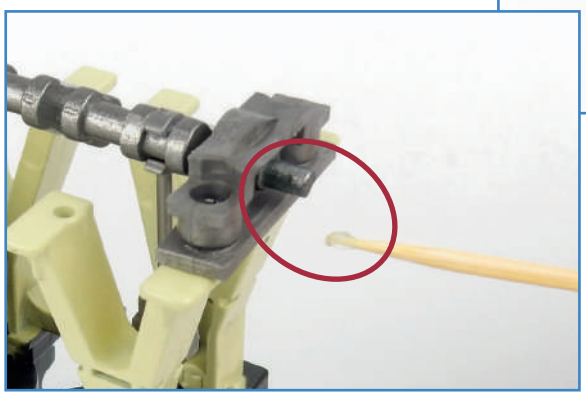
NOTE The main image shows stop plate **3P** fitted incorrectly. Make sure that the raised hump is on the outside of the engine as shown in the inset image (far right, circled in red).

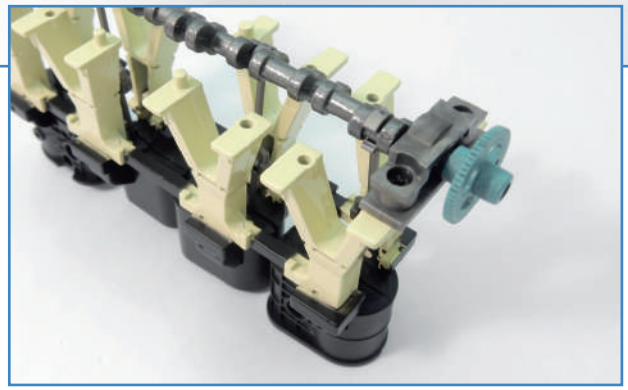




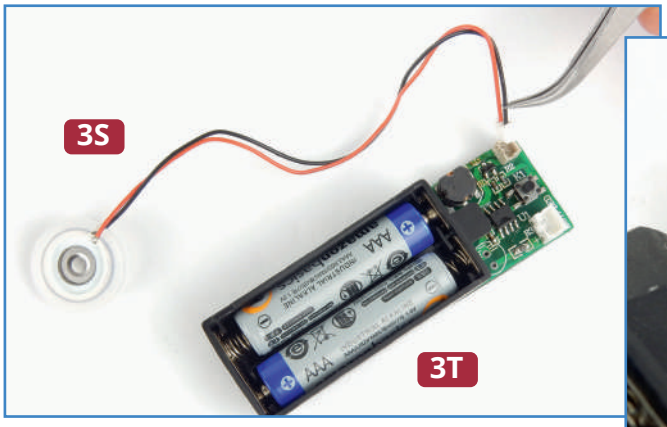
9 Position the assembly upside down on your work surface. Take the crankshaft cog **3N** and check how it fits on the end of the crankshaft **3R**. Note that the recess in the cog is D shaped and fits over the pin on the end of the crankshaft, which has one flat side. The cog should be fitted wth the embossed details facing outwards. When you are happy with the fit, apply a little superglue to the pin (below) and fix the cog in place (below right).

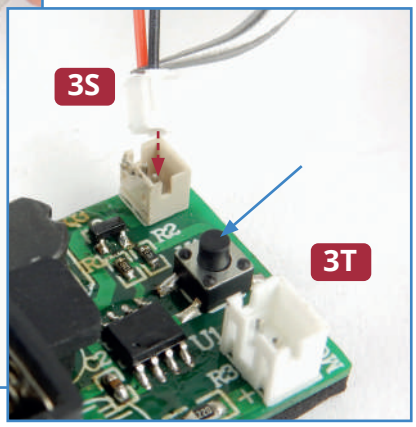




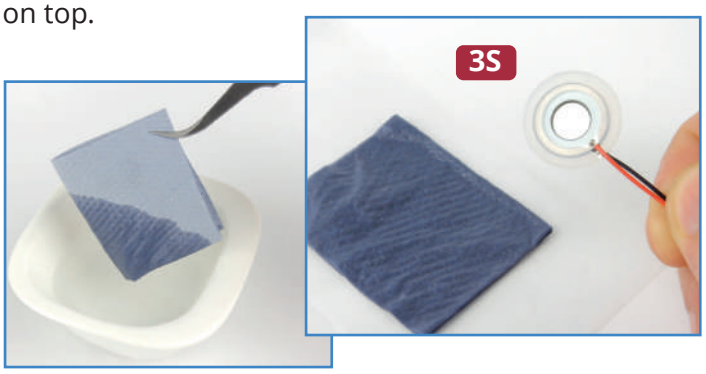


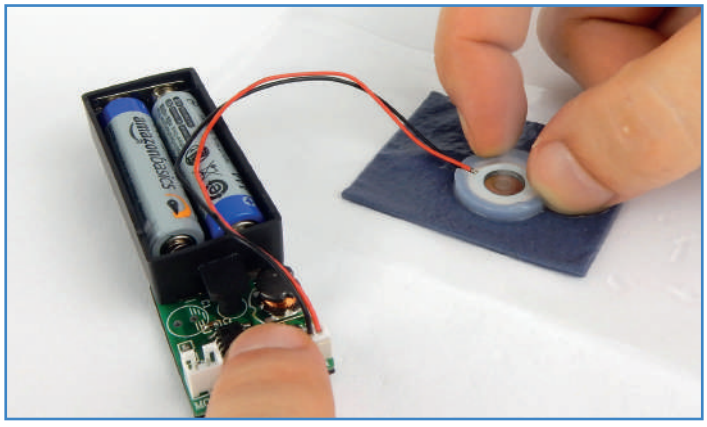
10 Take the smoke generator **3S** and the smoke generator tester unit **3T**. Plug the cable on part **3S** into the circuit board on unit **3T**. Fit two AAA batteries into the tester unit, ensuring they are the correct way round. Note the position of the button (blue arrow, far right).



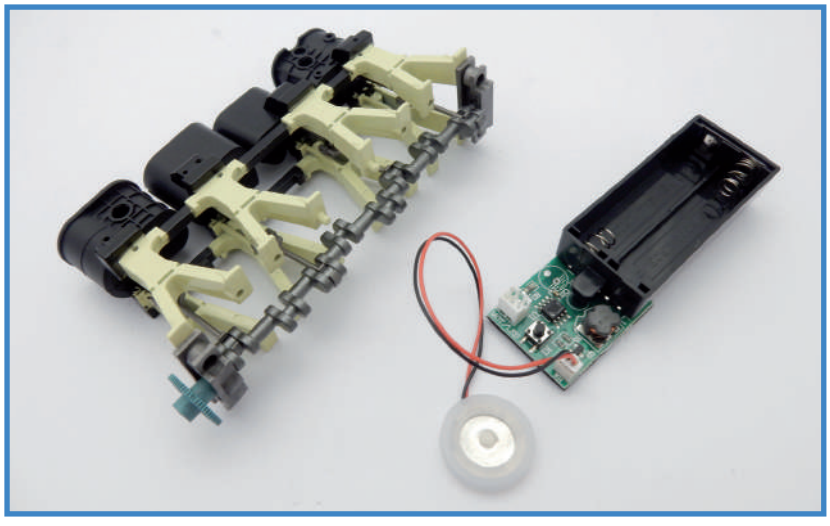


11 To test the smoke generator, wet a paper towel in a basin of water, then place the disc of the generator **3S** disk on top of it. Note the orientation of the metal disc: it is positioned so that the side where the wires are attached is on top.





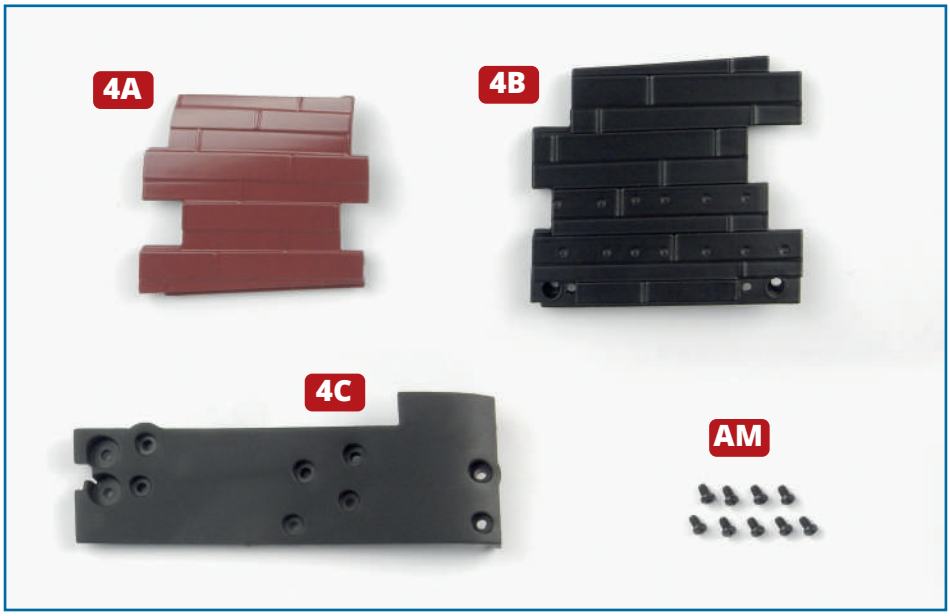
12 Hold down the button on the tester and, after a few moments, you will see a trail of smoke coming out of the centre of the disc.



Completed work

The cylinders, columns and crankshafts of the first engine have been assembled. The smoke generator has been tested. Remove the batteries from the tester and store the parts carefully.

More Parts for the Port Side of the Hull



PARTS IN THIS ISSUE

4A Lower port hull section

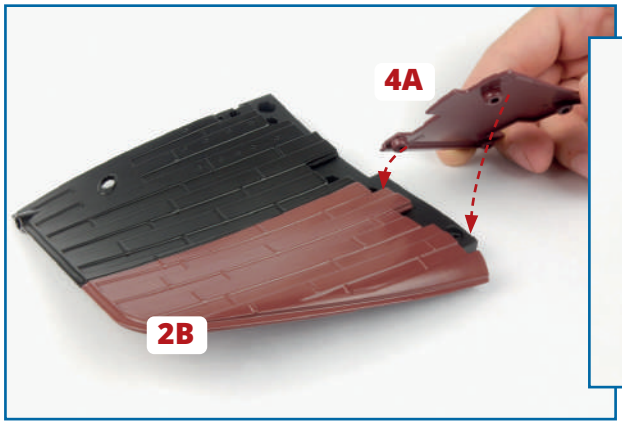
4B Port hull section (bow, lower)

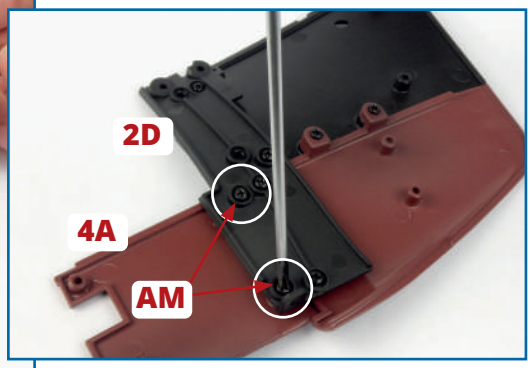
4C Connecting panel

AM Nine 6 x 4mm PM screws (1 spare)

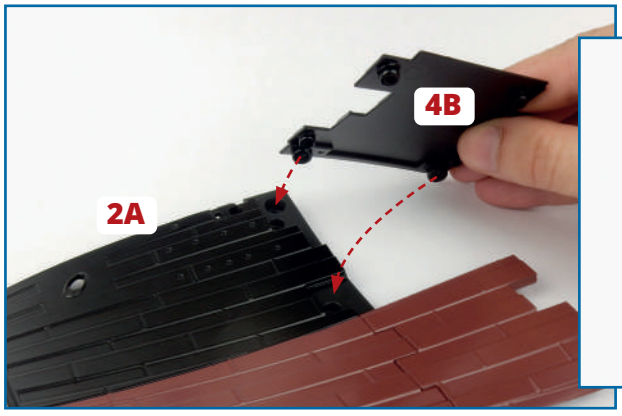
TIP: If you find the screws are tight to fit, unscrew them and then tighten them again. Alternatively, apply a little easing oil to the thread of the screws.

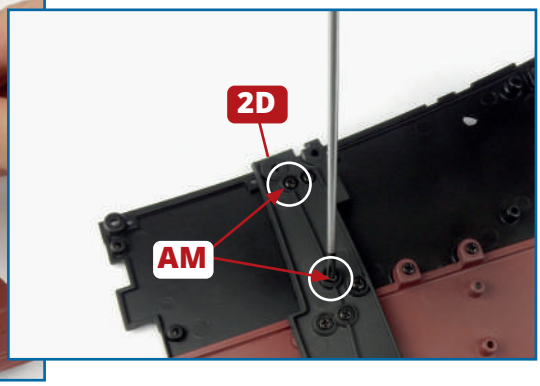
1 Place the hull assembly from issue 2 on your work surface. Check the fit of the lower port hull section **4A** in line with the lower hull section **2B**. Turn the assembly over and fix part **4A** to connecting panel **2D** using two **AM** screws (circled, far right).



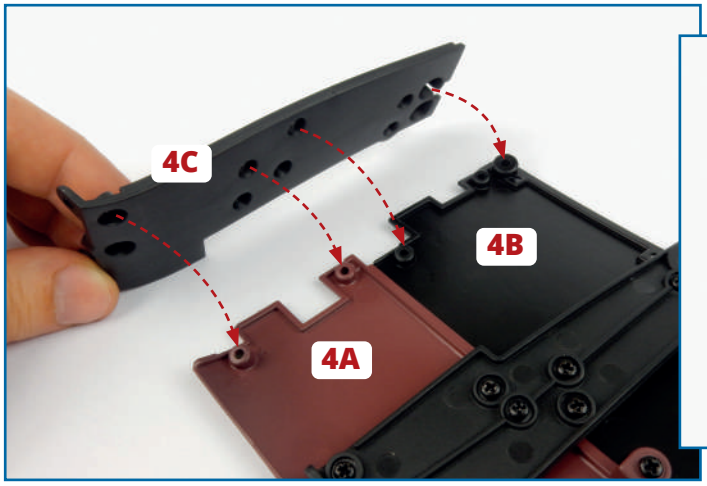


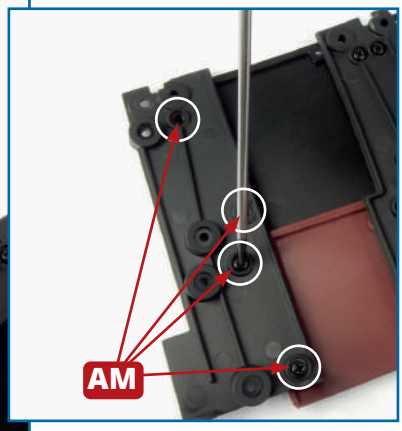
2 Check the fit of the upper hull section **4B** in line with part **2A**. Turn the assembly over so that you can fix part **4B** to the connecting panel **2D** with two **AM** screws (circled, far right).



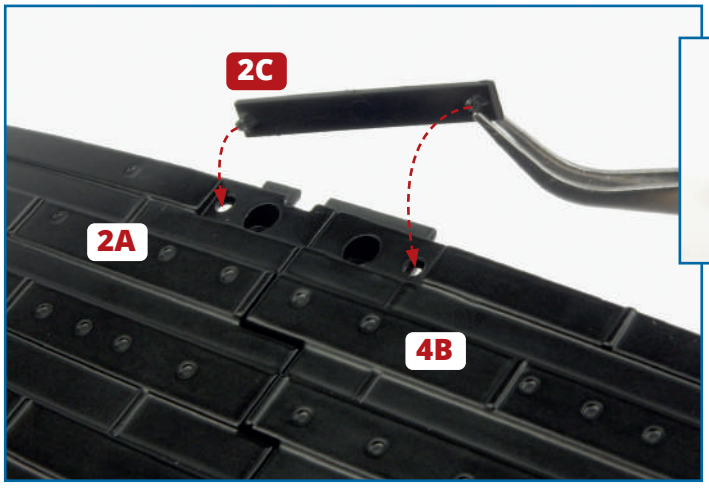


3 Check how the connecting panel **4C** fits against hull parts **4A** and **4B**: recesses in part **4C** fit over raised screw sockets on the hull parts, as indicated. Fix the parts together with four **AM** screws (far right).





4 Take the name plate **2C**, supplied with issue 2. Pegs on the back of the plate fit into holes in parts **2A** and **4B**. Push firmly into place: this is a push-fit connection.



Completed work

Two more hull sections and a connector have been fitted to the port side of the hull. The name plate has been fixed in place.