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).
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.

**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

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).

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.
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.
Take the two lower stop plates 3O and 3P. Again, note that part 3O is longer (below). 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.

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 with 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

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).

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.
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.