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PARTWORKS LTD

# U 96

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# U-BOAT

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Pack 2

Kits 5-8



**BUILD THE ICONIC WORLD WAR II U-BOAT**

# U 96

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# U-BOAT

## Pack 2

### Assembly Instructions

**Kit 5: Starboard side of the conning tower**

**Kit 6: Hull extension**

**Kit 7: Motor for the forward hydroplane**

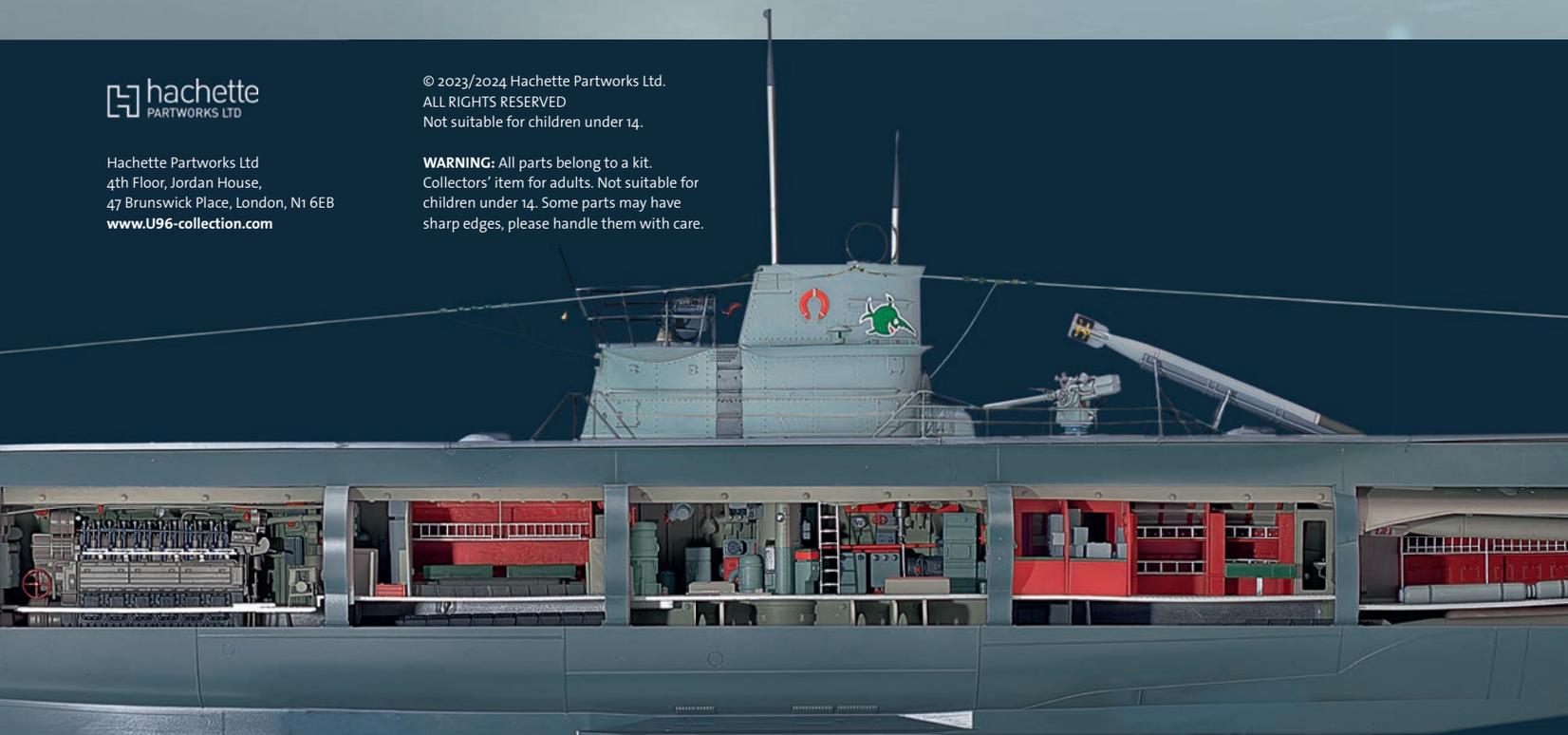
**Kit 8: The hull**



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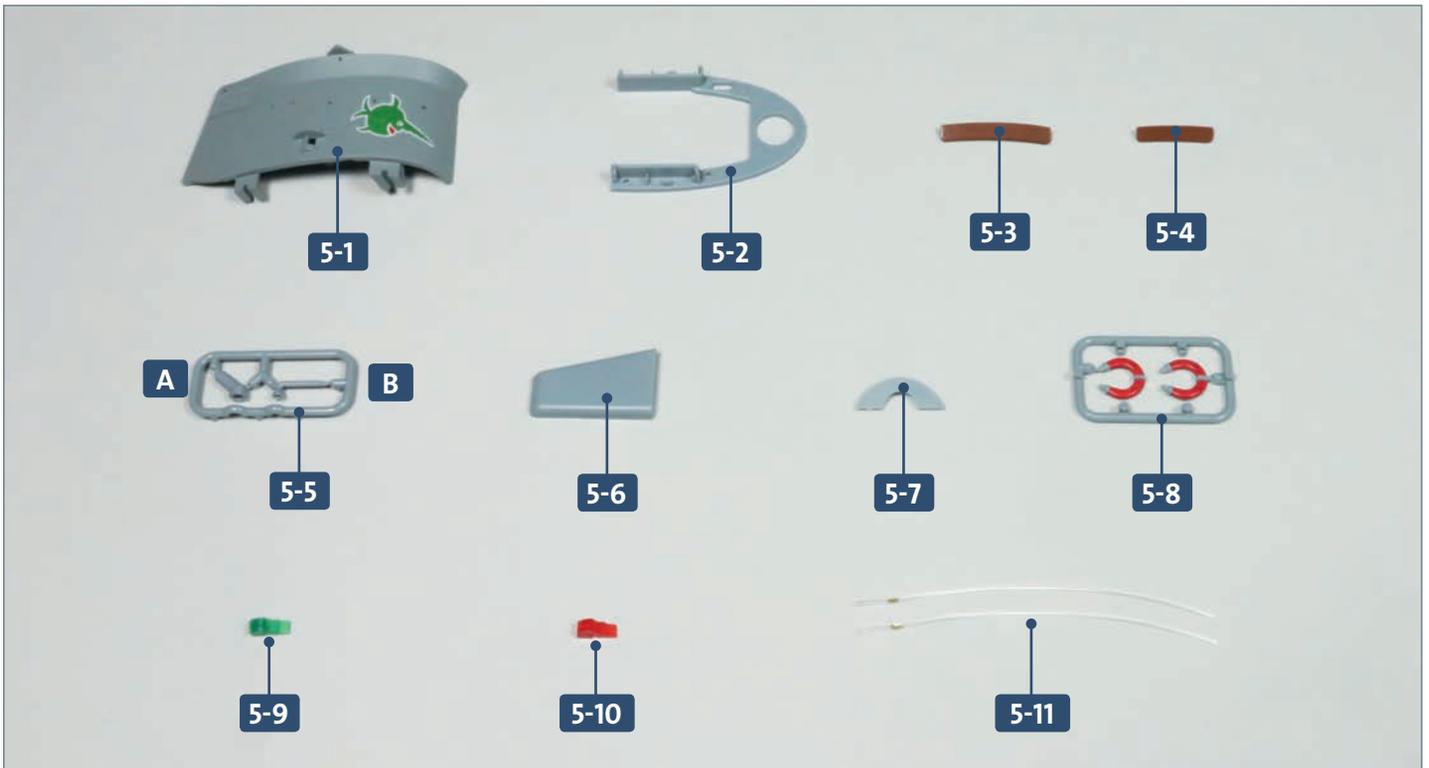
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Not suitable for children under 14.

**WARNING:** All parts belong to a kit.  
Collectors' item for adults. Not suitable for  
children under 14. Some parts may have  
sharp edges, please handle them with care.



# Kit 5: Starboard side of the conning tower

In this kit, two platforms, the navigation lights, two fibre optic cables, the speaking tube and compass mount are attached to the conning tower. Lifebelts are fitted to the two halves of the bulwark, which are then attached to the bridge deck. The air duct cover is then installed.



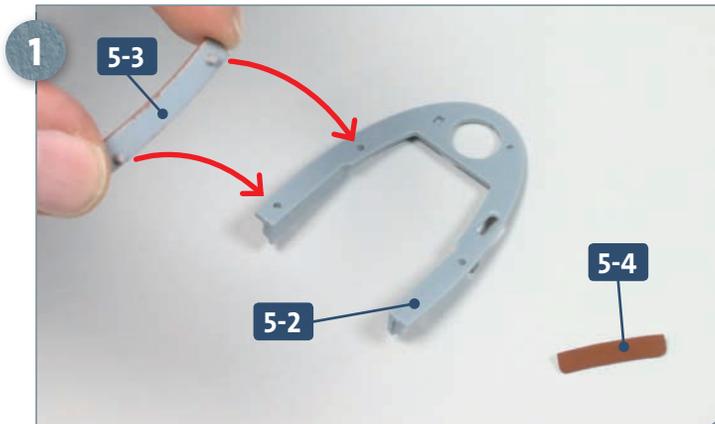
Parts reference list	
Part no.	Name
5-1	Bridge starboard (R) bulwark
5-2	Bridge platform
5-3	Bridge port (L) inner platform
5-4	Bridge starboard (R) inner platform
5-5	Compass mount and speaking tube
5-6	Air duct cover
5-7	Canopy
5-8	Two lifebelts
5-9	Starboard (R) navigation light
5-10	Port (L) navigation light
5-11	Two fibre optic cables



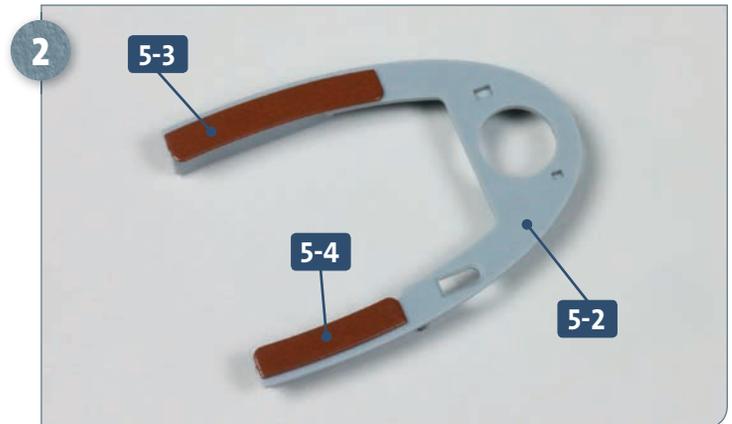
Screws		
Ref	No.	Dimensions
CP	4+1	2 x 4 mm

## Kit 5: Starboard side of the conning tower

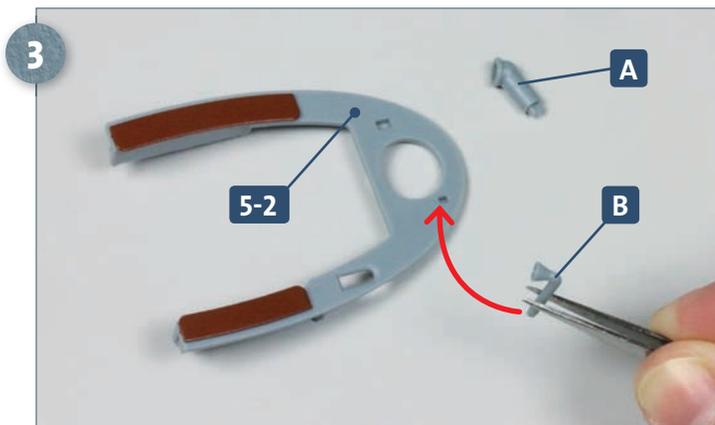
### STAGE 1 → Installing the fibre optics



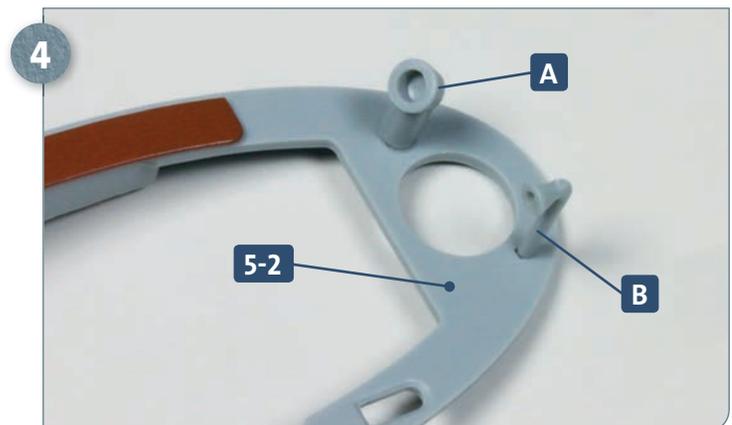
Place the bridge platform 5-2 and the two inner platforms 5-3 and 5-4 on your work surface. After test-fitting, apply some glue to the pegs on the port (L) inner platform 5-3 and fit them into the holes on the port (L) side of the platform 5-2.



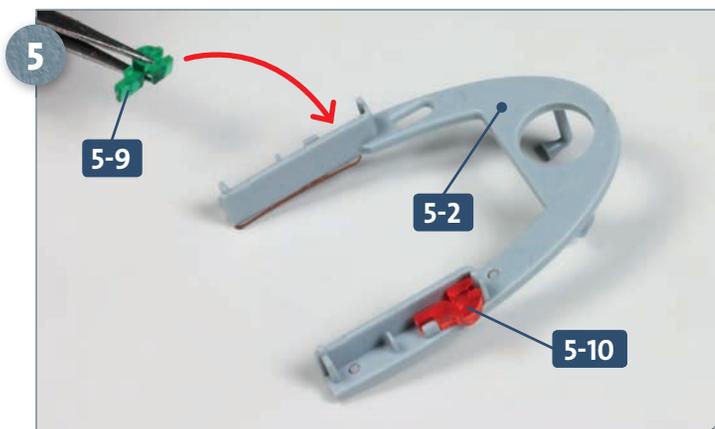
Repeat the process, adding some glue to the pegs on the inner platform 5-4 and attaching it to the starboard (R) side of the platform 5-2.



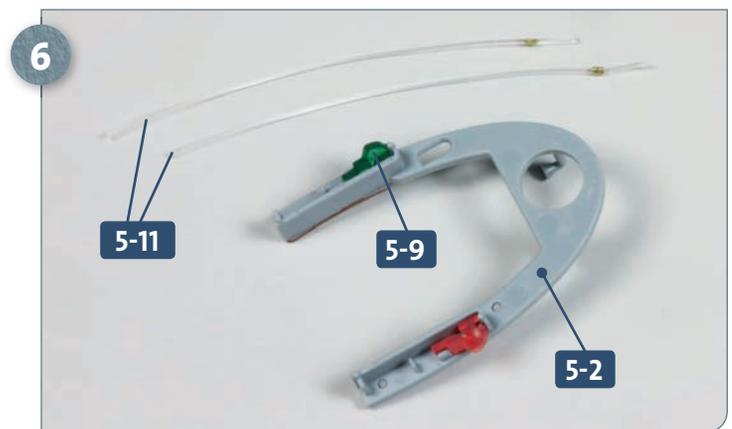
Remove both parts from the frame 5-5. Take the speaking tube mouthpiece B, apply some glue to the end and attach it to the recess in 5-2, in the position indicated by the arrow, shown above.



The compass mount A is glued into the second recess at the front of 5-2, as shown.

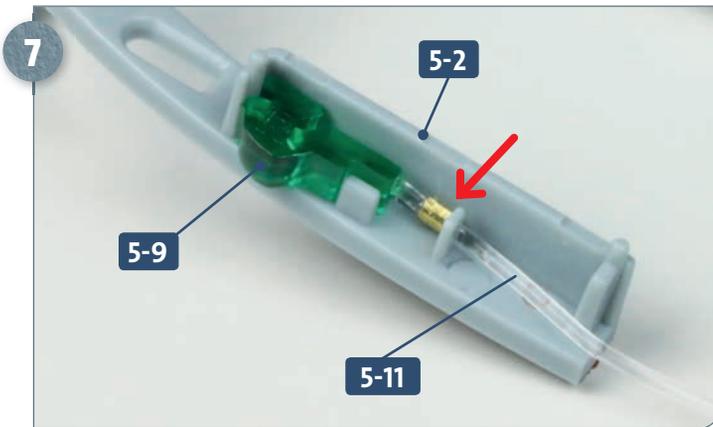


Carefully turn the platform 5-2 over. Fit the port (L) navigation light 5-10 into the port (L) side recess. The starboard (R) navigation light 5-9 fits into the recess on the other side, as indicated by the arrow.

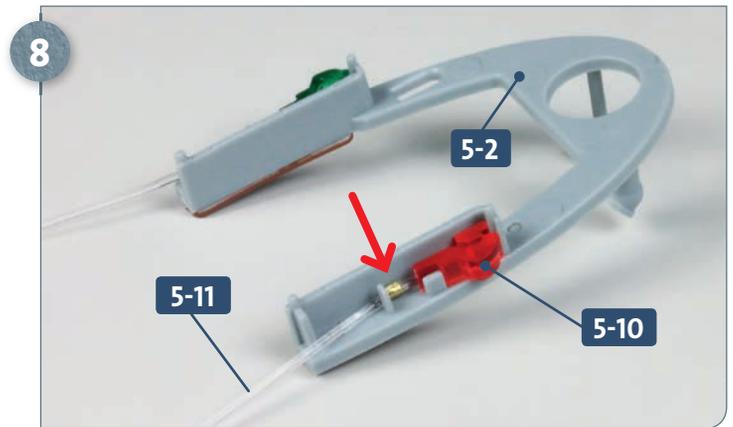


After fitting the navigation lights, as shown, take the two fibre optic cables 5-11.

## Kit 5: Starboard side of the conning tower

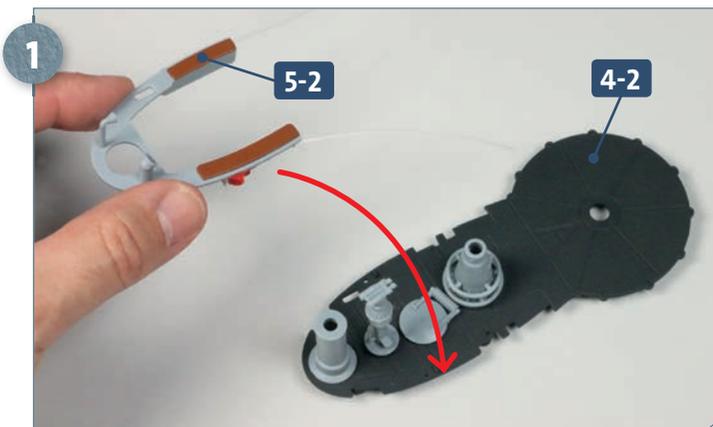


Fit the front end of the first cable 5-11 into the back of the starboard (R) navigation light 5-9, so that the cable clamp (see arrow) sits in front of the tab in the platform 5-2, as shown above.

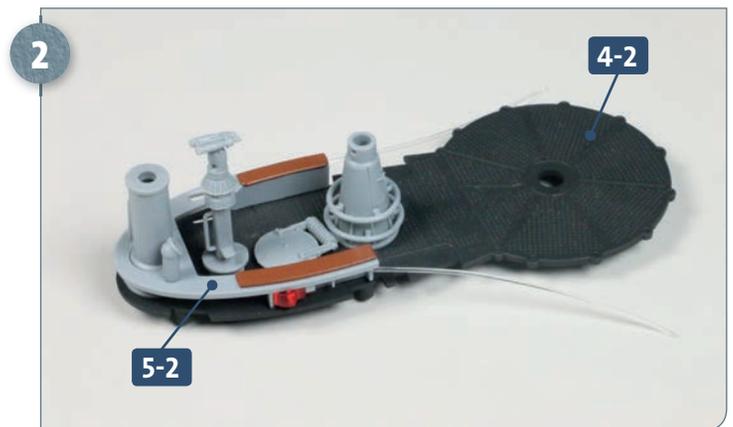


Repeat the process to attach the second fibre optic cable 5-11: the end fits into the back of the port (L) navigation light 5-10, with the clamp (see arrow) in front of the tab in the platform 5-2.

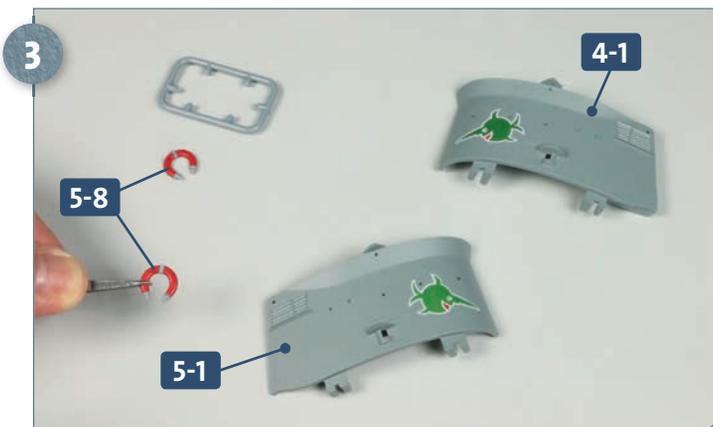
### STAGE 2 → Completing the conning tower



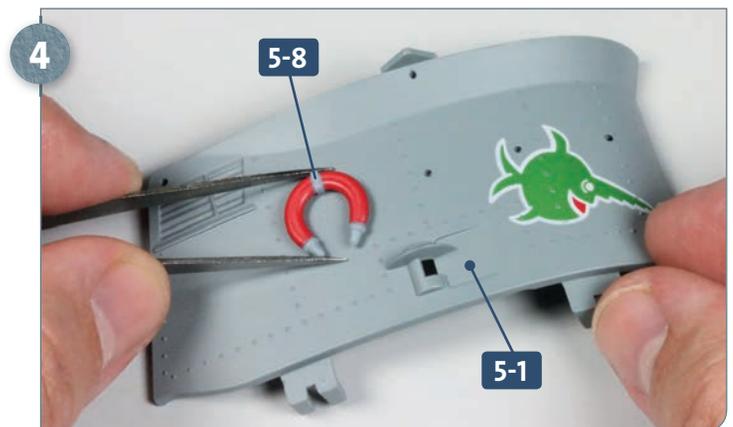
Place the bridge deck 4-2 on your work surface and test-fit the platform assembly 5-2 as shown by the arrow.



When certain of a good fit, apply glue to the pegs on platform assembly 5-2 and secure in place.

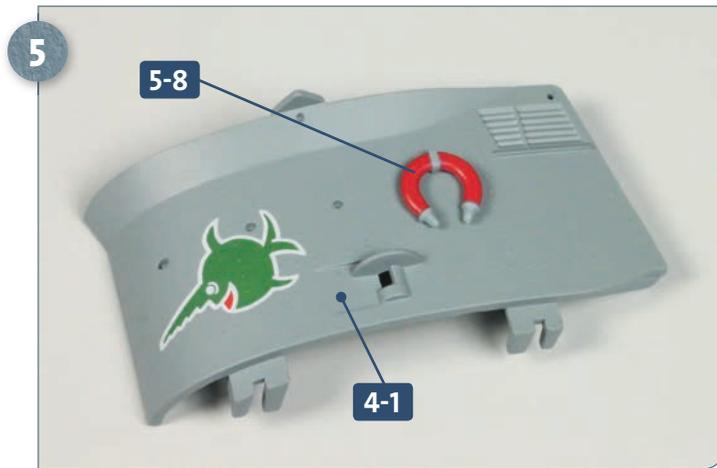


Next, take the two bulwarks 4-1 and 5-1. Separate the two lifebelts from the frame 5-8. Add some glue to the two pegs on the back of the first lifebelt.

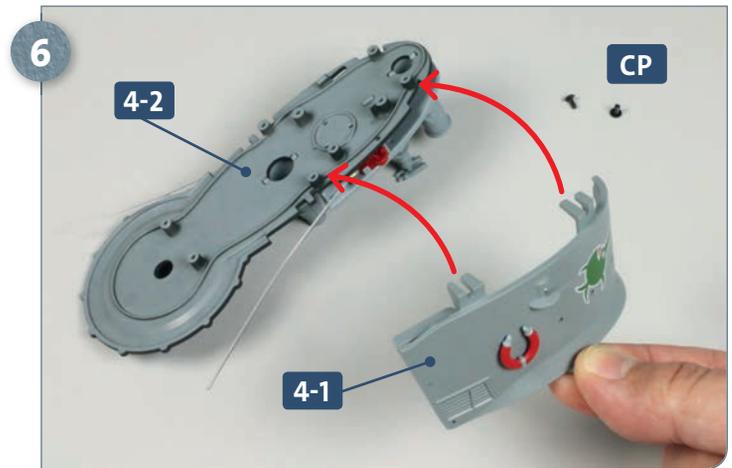


Attach the first lifebelt 5-8 to the starboard (R) bulwark 5-1.

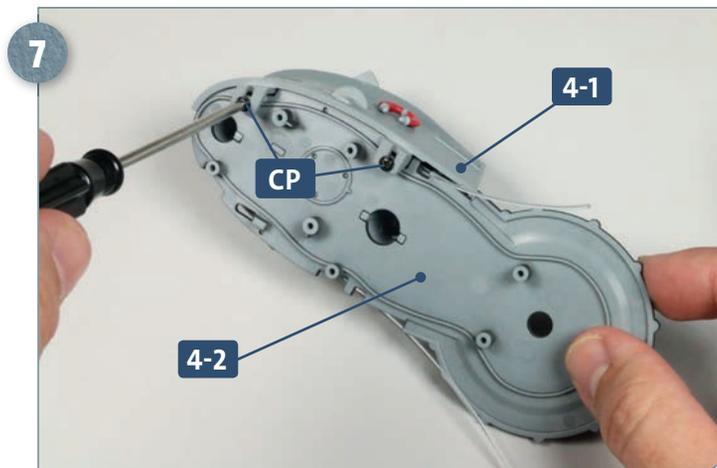
## Kit 5: Starboard side of the conning tower



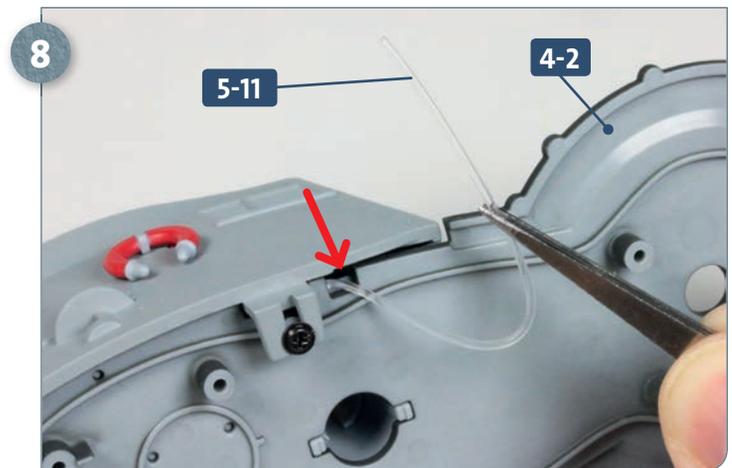
Repeat the process to attach the second lifebelt **5-8** to the port (L) bulwark **4-1**. Before beginning the next stage of the build, read carefully through the next steps. This is to ensure the correct positioning of the fibre optic cables.



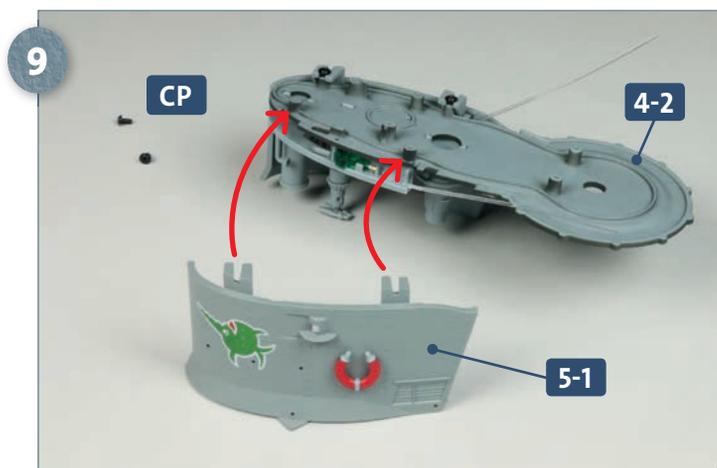
Taking care not to damage the parts, turn the port (L) bridge deck assembly **4-2** upside down. Have ready two **CP** screws. Take the bulwark **4-1** and fit its tabs over the raised screw sockets, as indicated by the two arrows.



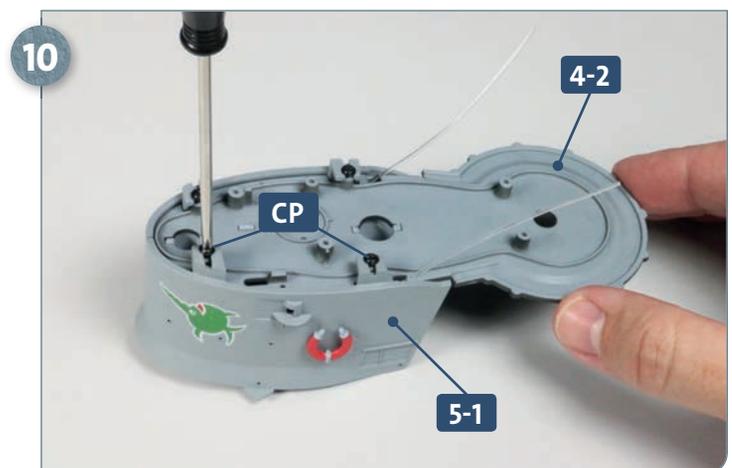
Attach the port (L) bulwark **4-1** to the bridge deck assembly **4-2** using two **CP** screws.



Make sure that the fibre optic cable **5-11** is routed through the gap behind the air duct cover and through the recess (see arrow) in the bridge deck **4-2**.



Now, working on the other side of the bridge deck assembly **4-2**, have ready two more **CP** screws. Fit the lower tabs of the starboard (R) bulwark **5-1** over the corresponding raised screw sockets on the bridge deck as indicated.

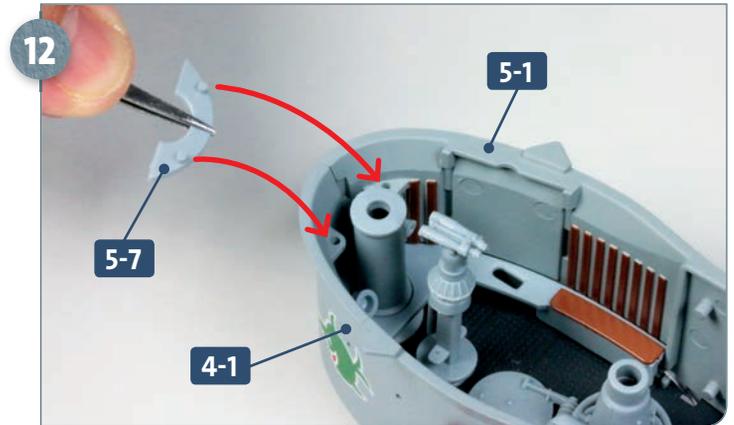


Use two **CP** screws to fix the bulwark to the bridge deck as shown above.

## Kit 5: Starboard side of the conning tower



Once again, make sure that the fibre optic cable 5-11 is routed through the recess in the bridge deck 4-2, through the hole indicated by the arrow.



Take the canopy 5-7 and fit the two pegs on its underside into the holes inside the two halves of the bulwark 4-1 and 5-1, as shown. If necessary, use a small file, or similar, to adjust the part.

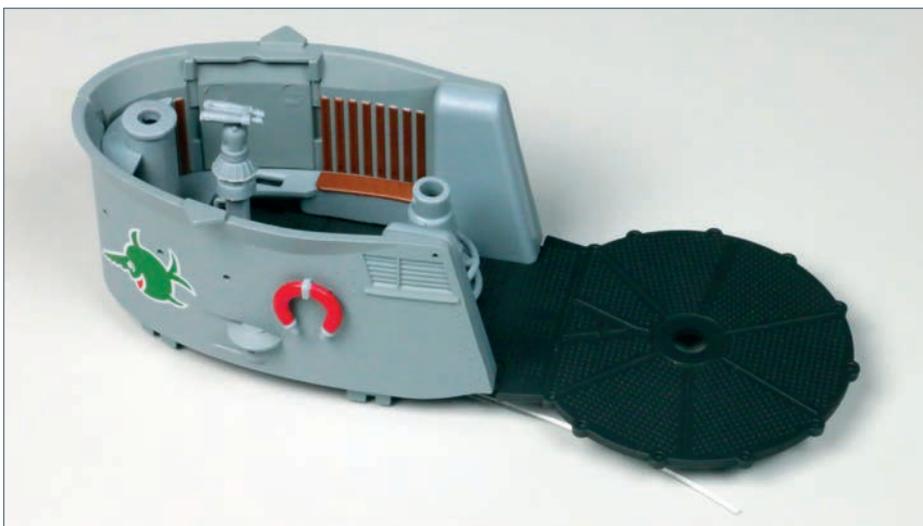


The canopy 5-7 is mounted at the front of the conning tower.



Take the air duct cover 5-6 and apply a little glue to the raised sockets on the back and secure it in place on the starboard (R) bulwark 5-1, as shown.

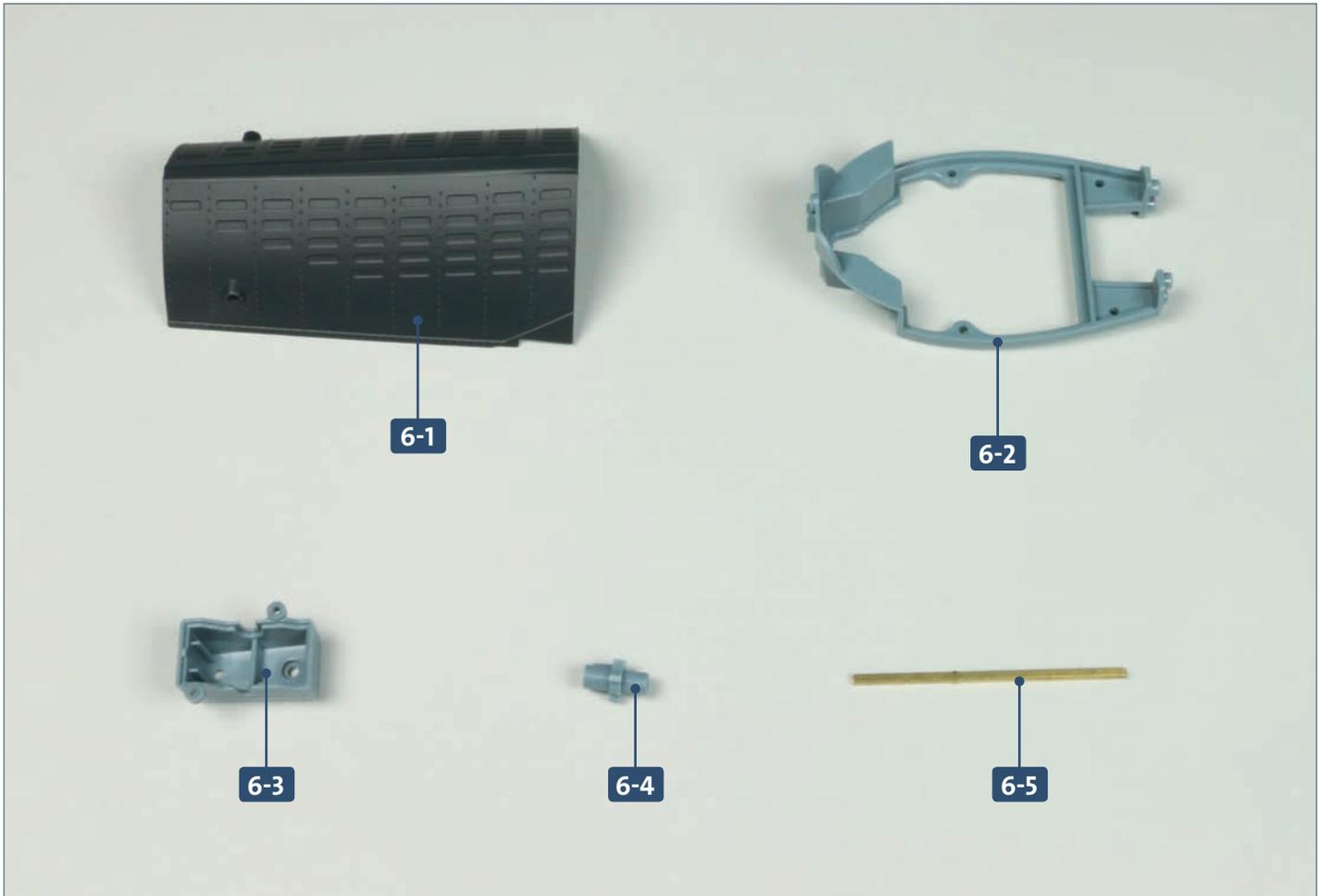
## COMPLETED WORK



The navigation lights and fibre optic cables are now installed, and the platform assembly and two halves of the bulwark have been attached to the bridge deck.

# Kit 6: Hull extension

A connection piece and the first parts of the forward (front) hydroplane box are fitted to part of the hull, which is then attached to the main bow assembly.



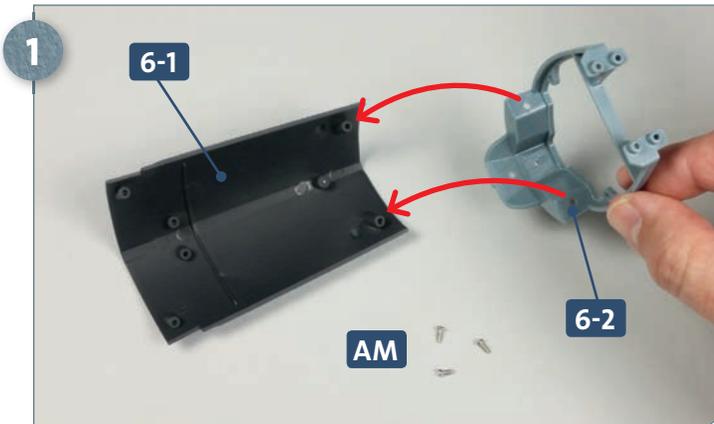
## Parts reference list

Part no.	Name
6-1	Lower hull
6-2	Connector
6-3	Forward hydroplane box cover (lower)
6-4	Forward hydroplane box drive gear
6-5	Forward hydroplane shaft

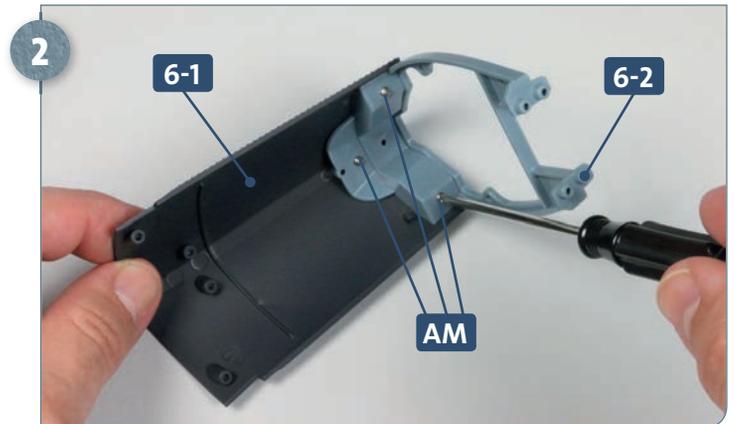
## Screws

Ref	No.	Dimensions
AM	4+1	2 x 4 mm
AP	6+2	2 x 4 mm

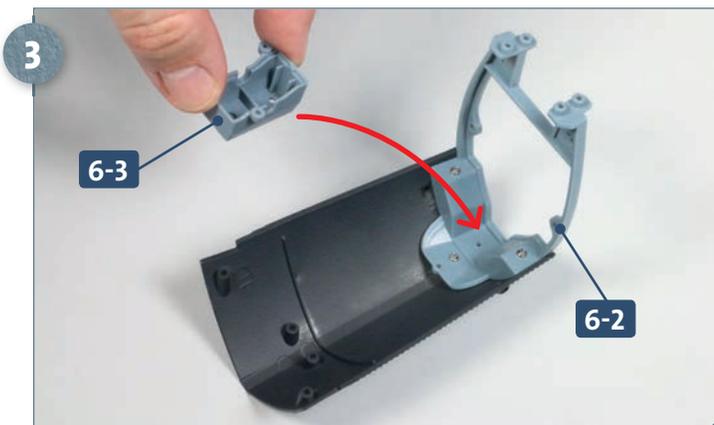
**STAGE 1** → Attaching the connector and hydroplane box parts



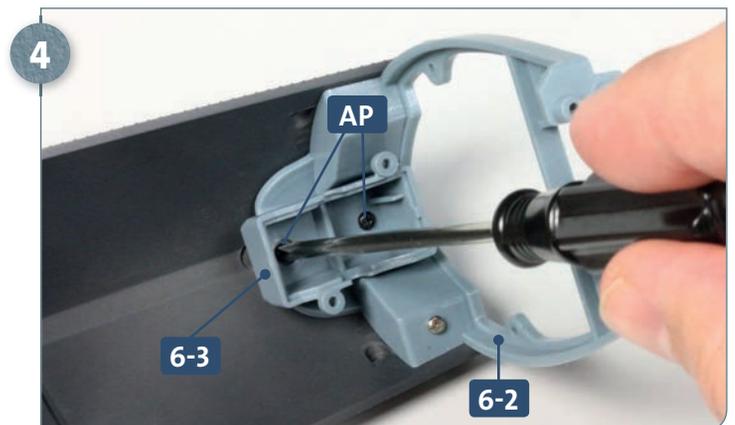
Have ready the lower hull section **6-1** and three **AM** screws. Take the connector **6-2** and test-fit it to the forward end of the lower hull section **6-1**, as shown.



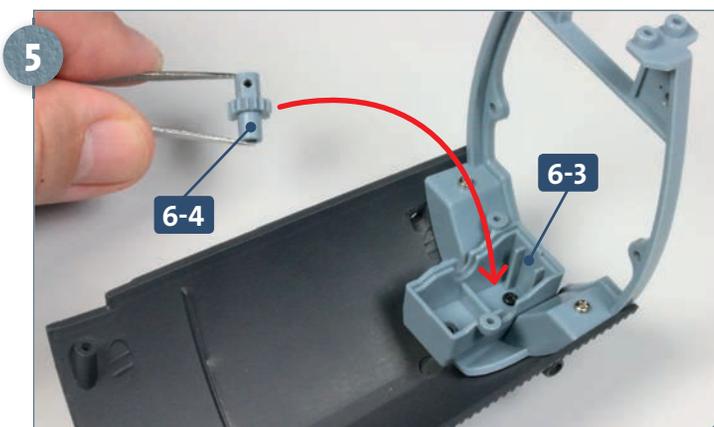
Fix the connector **6-2** to the hull section **6-1** using three **AM** screws, as shown.



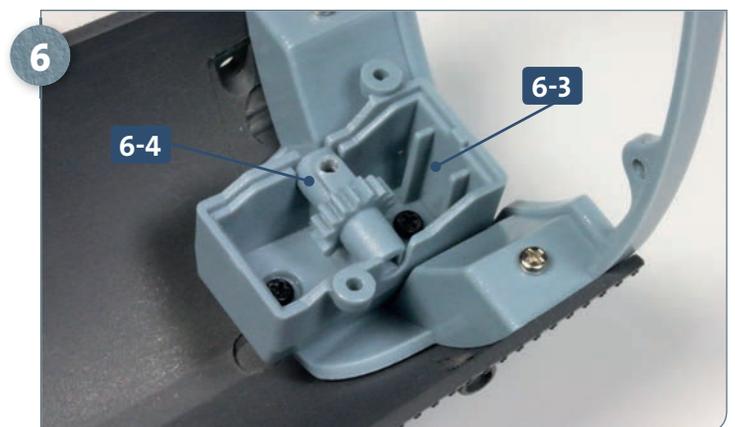
Take the hydroplane box housing **6-3** and fit it onto the connector **6-2**. Pay careful attention to the alignment, referring to the photo shown above.



Attach the hydroplane box **6-3** to the connector **6-2** using two **AP** screws.

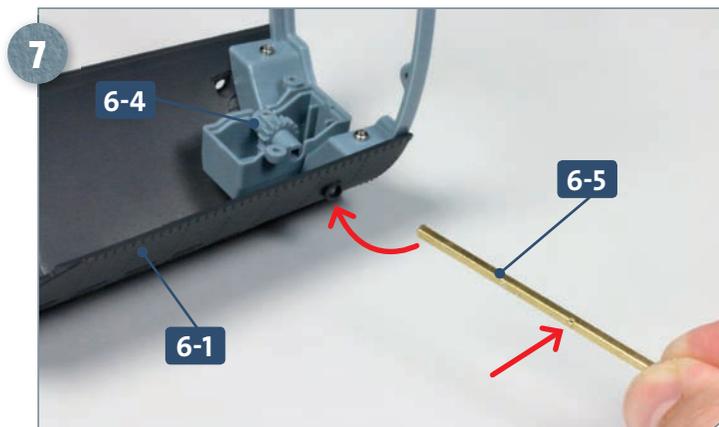


Take the gear **6-4** and insert it into the hydroplane box **6-3**, as shown above.

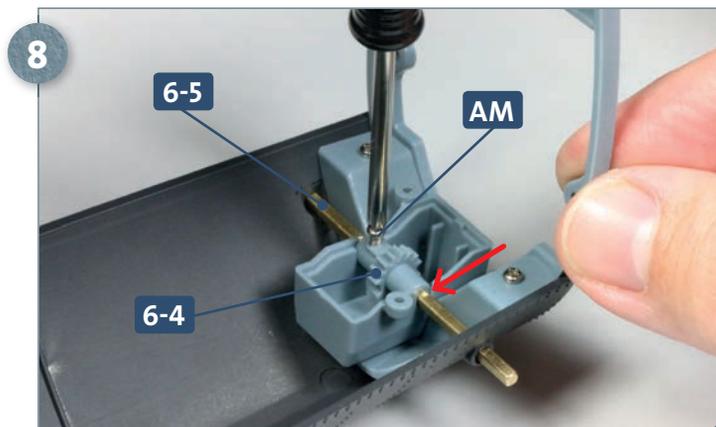


The gear **6-4** is correctly seated in the hydroplane box **6-3** when the hole on the shaft is facing upwards.

## Kit 6: Hull extension

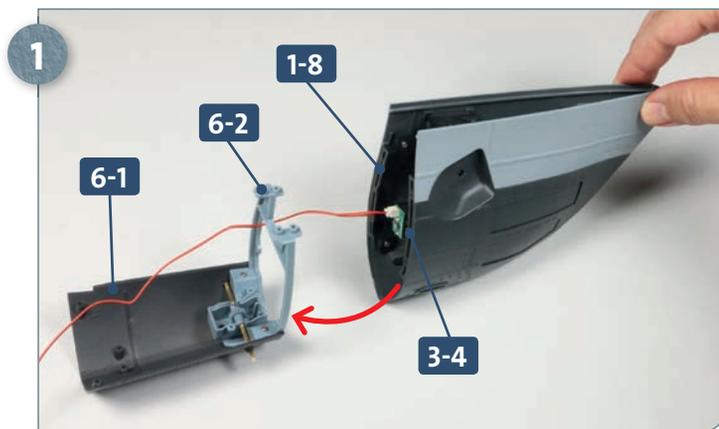


Take the hydroplane shaft **6-5** and note that the shaft is divided into two by a notch (see red arrow). The longer section of the shaft is inserted into the hull **6-1**.

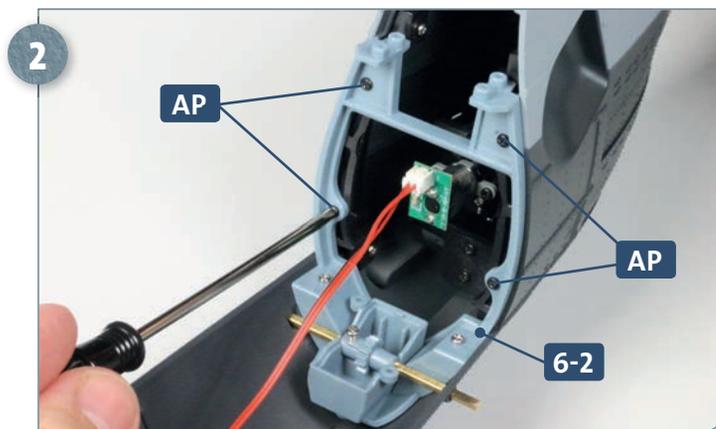


Push the shaft **6-5** all the way through until it emerges from the hole on the other side of the hull. Noting the position of the notch, as indicated by the arrow, fix in place using one **AM** screw.

### STAGE 2 → Joining the hull assemblies

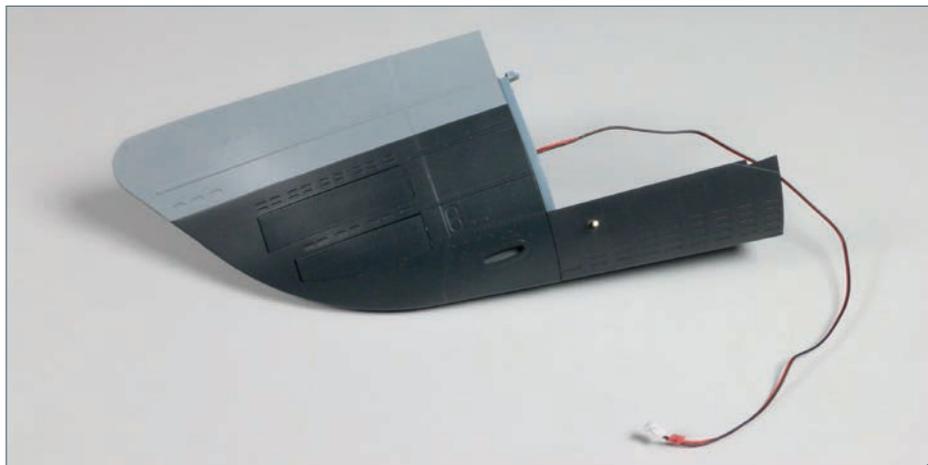


Fit the bow assembly to the new hull assembly **6-1**, aligning the holes of connectors **1-8** and **3-4** with those of connector **6-2**.



Fix in place using four **AP** screws.

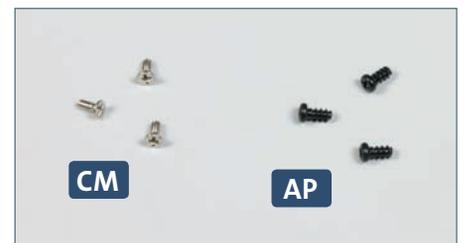
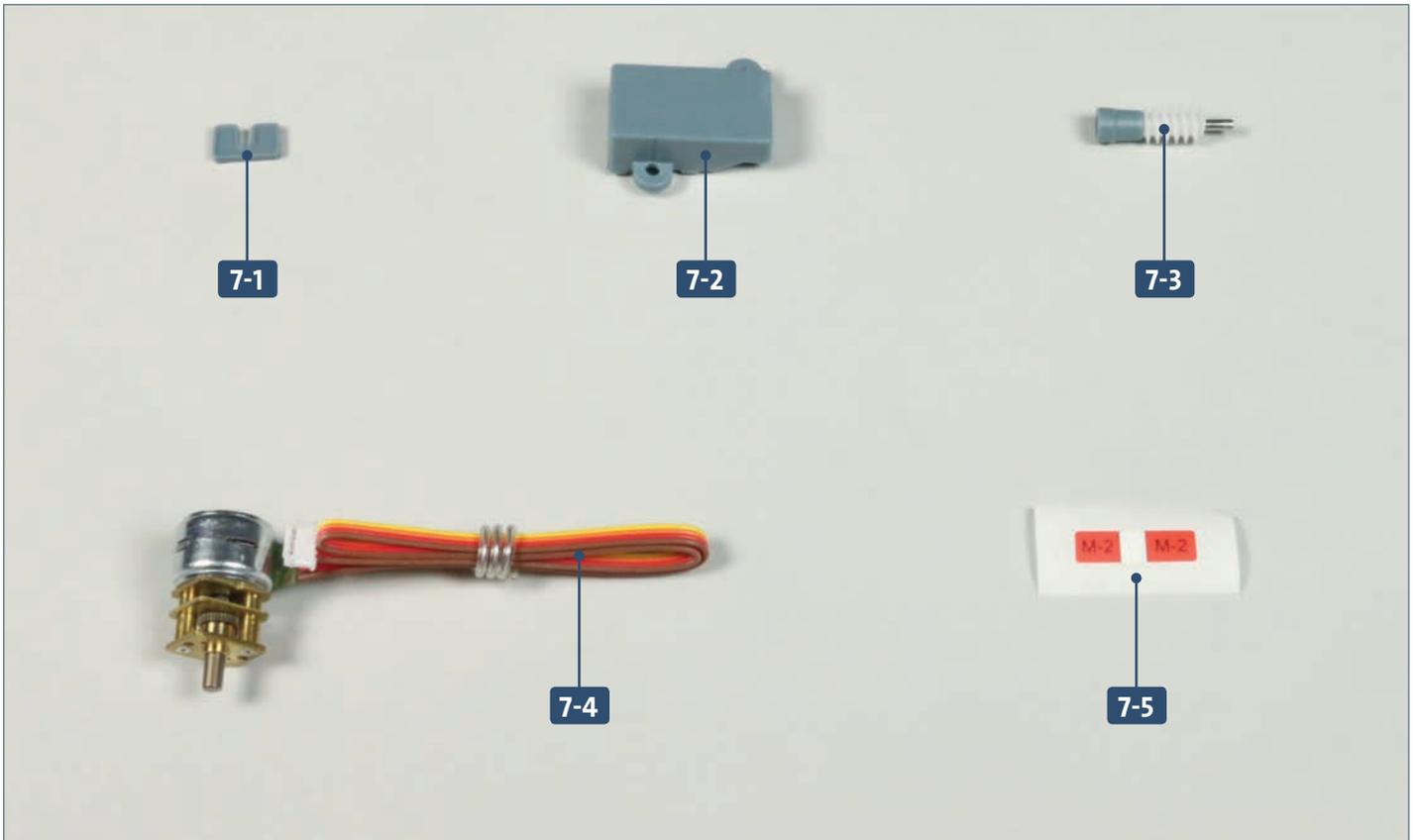
### COMPLETED WORK



Another section of the hull has been added to the assembly. The first parts of the forward hydroplane have now been attached to the lower part of the hull.

# Kit 7: Motor for the forward hydroplane

The motor for the forward hydroplane is inserted into the upper hydroplane housing, fitted with a worm drive and secured in place. The hydroplane housing is then assembled.

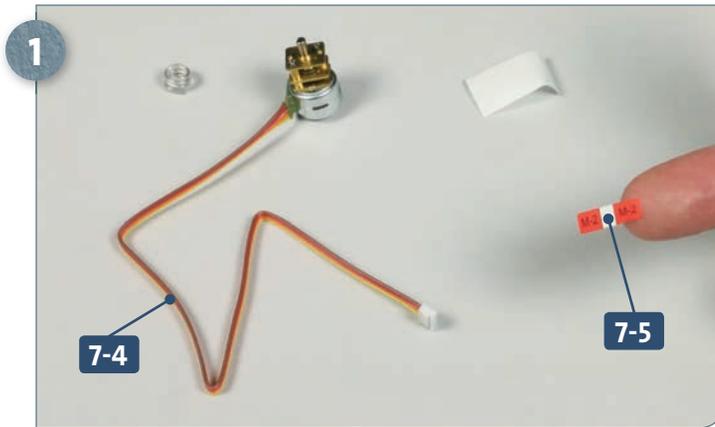


Parts reference list	
Part no.	Name
7-1	Worm gear bracket
7-2	Forward hydroplane box cover (upper)
7-3	Worm gear
7-4	Motor
7-5	Cable label

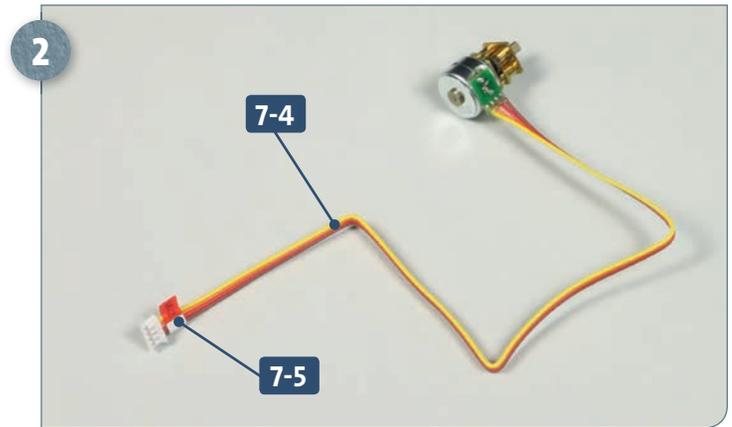
Screws		
Ref	No.	Dimensions
CM	2+1	1.6 x 4 mm
AP	2+1	2 x 4 mm

## Kit 7: Motor for the forward hydroplane

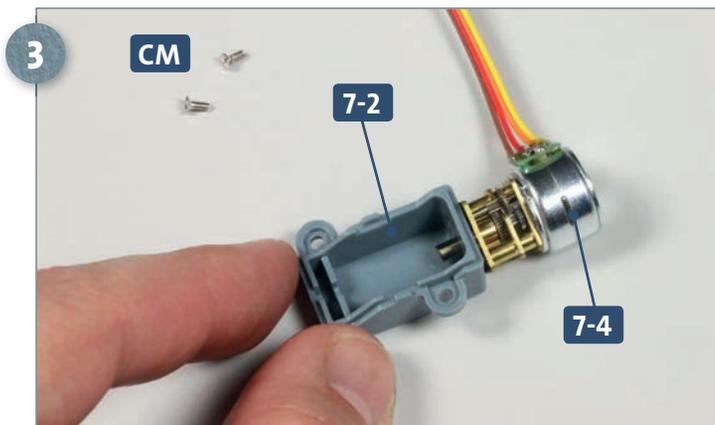
### STAGE 1 → Assembling the gearbox for the forward hydroplane



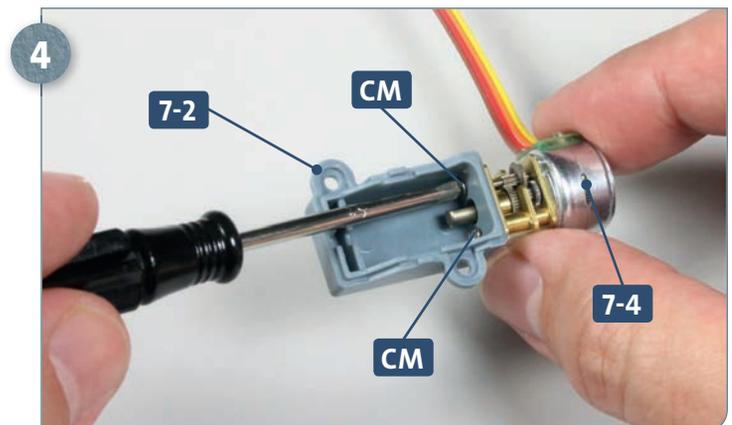
Place the motor **7-4** and cable label **7-5** on your work surface. Remove the wrapper from the motor cable and detach the backing film from the cable label.



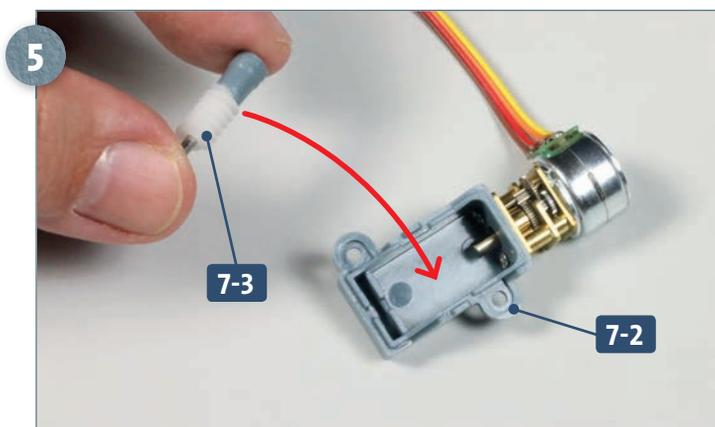
Attach the cable label **7-5** just next to the connector end of the cable **7-4**, as shown in the photo.



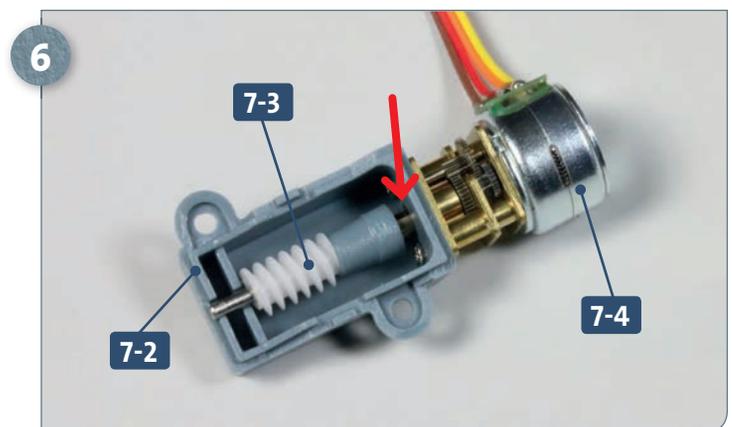
Fit the shaft of the motor **7-4** into the hole in the hydroplane box **7-2** and have two **CM** screws ready for the next step.



Fix the motor **7-4** onto the hydroplane box **7-2**, using two **CM** screws in the positions shown above.

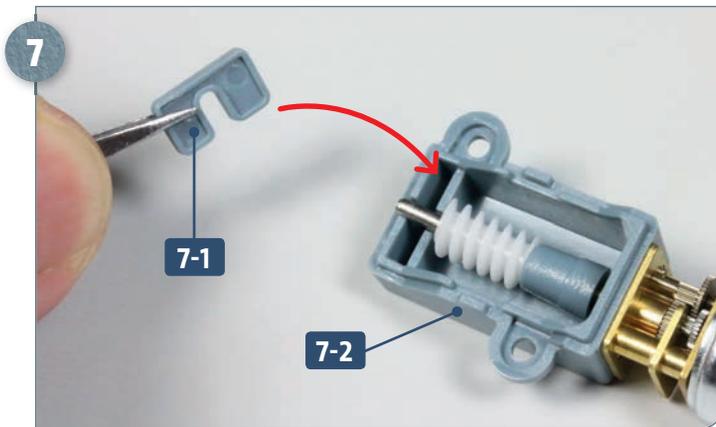


Take the worm gear **7-3** and fit it onto the shaft of the motor inside the hydroplane box **7-2**. Note that there is a flattened side to the shaft, which aligns with a flattened edge inside the worm gear.

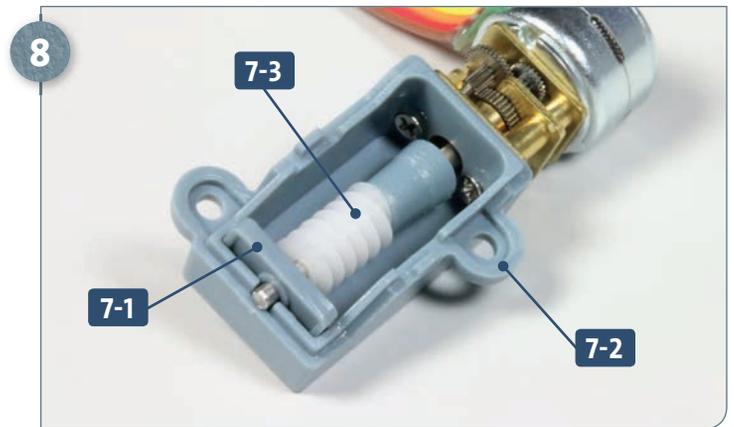


The worm gear **7-3** is correctly seated in the housing **7-2** when its shaft rests within the recess of the case and the other end fits over the shaft of the motor **7-4** (see arrow).

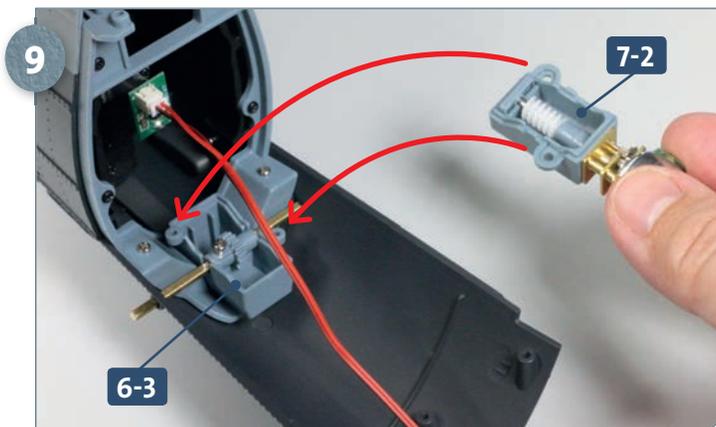
## Kit 7: Motor for the forward hydroplane



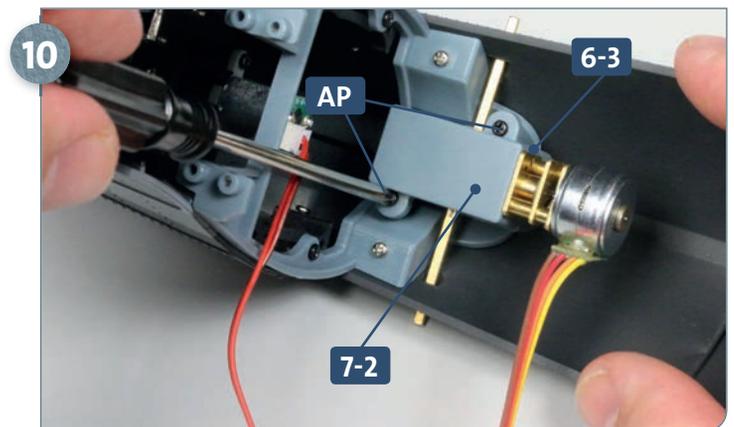
Take the bracket **7-1** and fit it onto the split recesses of the hydroplane box **7-2**, as shown. Pay close attention to the orientation of the part.



When correctly fitted, the fastener **7-1** sits in the recess of the hydroplane box **7-2**, holding the worm gear **7-3** in place.

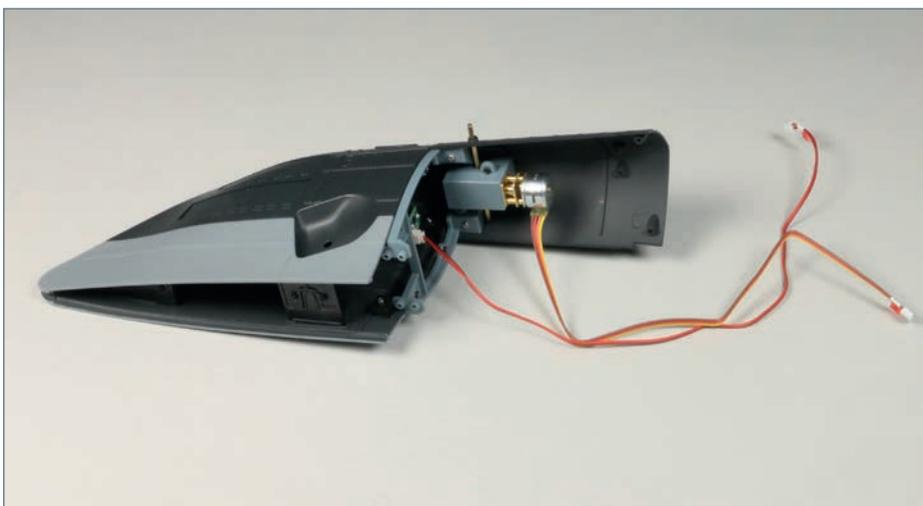


Place the hull assembly, which was worked on in the last kit, on your work surface. Fit the upper hydroplane housing assembly **7-2** onto the lower housing **6-3**, as shown.



Fasten the two parts of the hydroplane box **7-2** and **6-3** together using two **AP** screws, as shown.

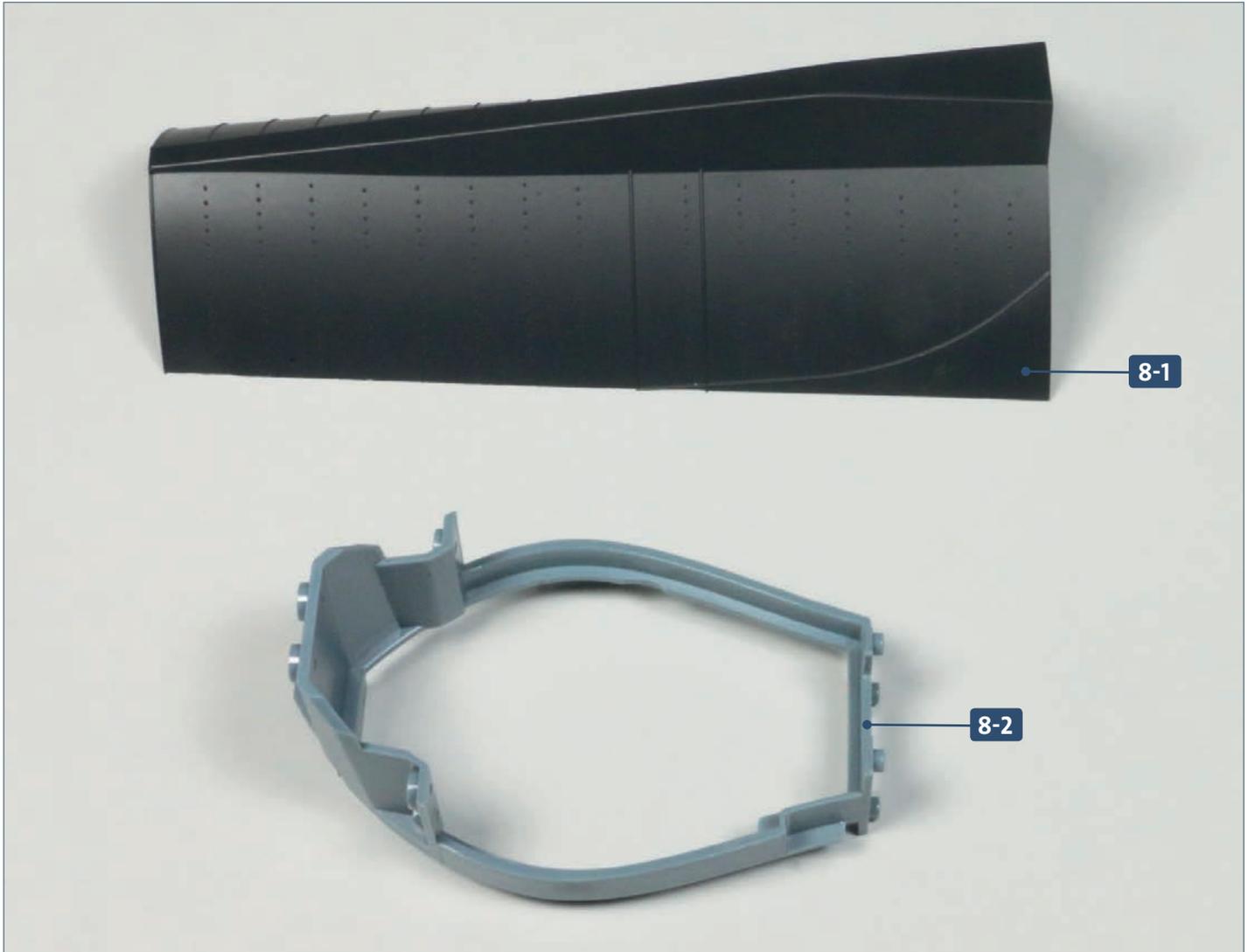
### COMPLETED WORK



The motor for the forward hydroplane has been connected to the gearbox, and the hydroplane assembly attached to the hull.

# Kit 8: The hull

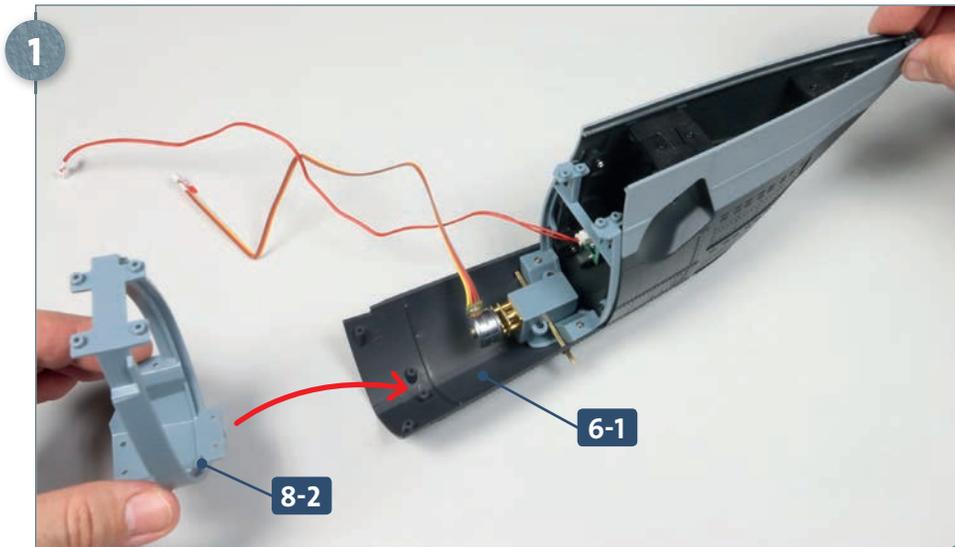
A connector is attached to the existing hull assembly, to which the next section is then attached.



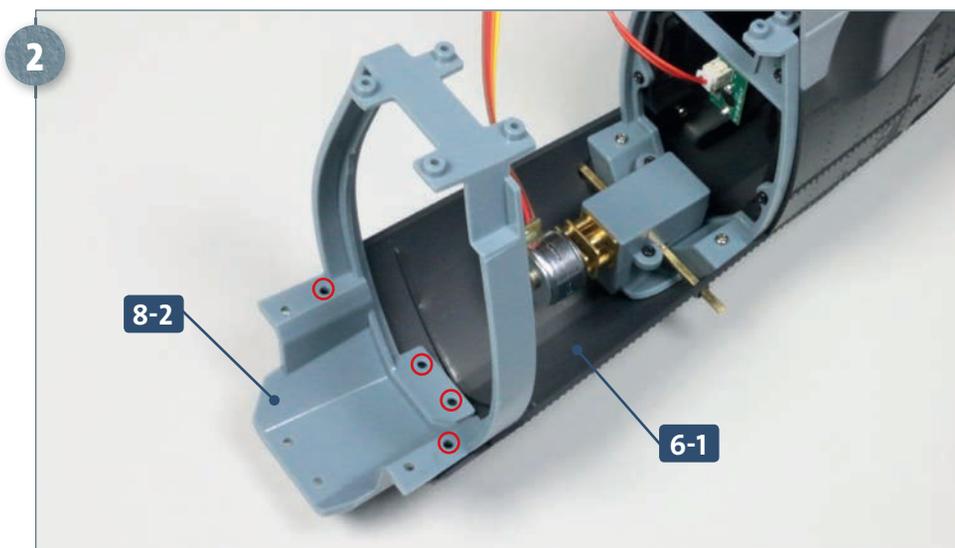
Parts reference list	
Part no.	Name
8-1	Lower hull
8-2	Connector

Screws		
Ref	No.	Dimensions
AM	8+1	2 x 4 mm

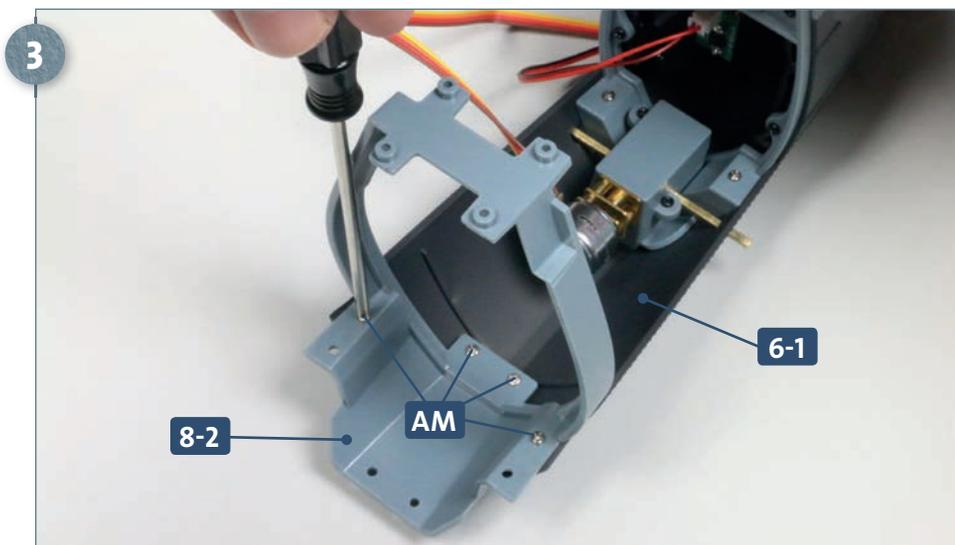
**STAGE 1** → Attaching the connector



Take the main hull assembly you worked on in the previous kit. Fit the connector **8-2** to the back end of the lower hull, as indicated by the arrow.



The connector **8-2** is correctly positioned when all four holes align with those of section **6-1** (circled).

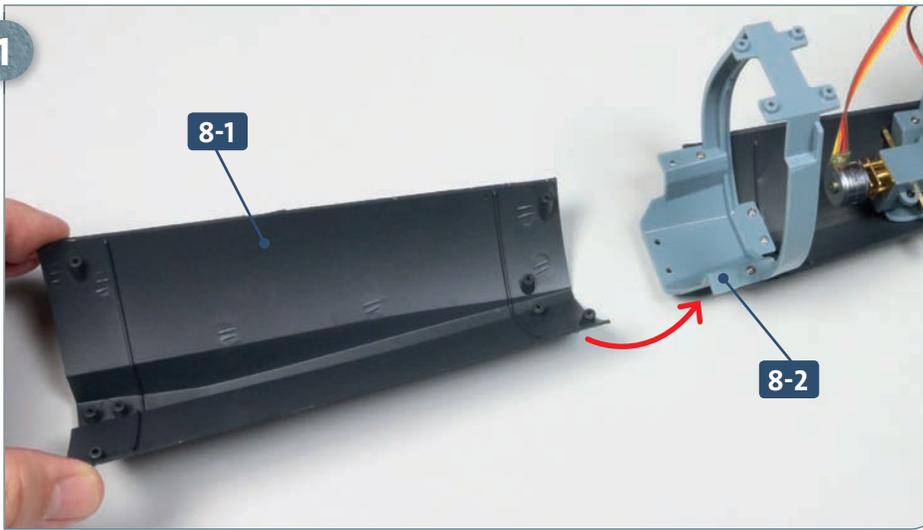


Fix the two parts together using four **AM** screws.

## Kit 8: The hull

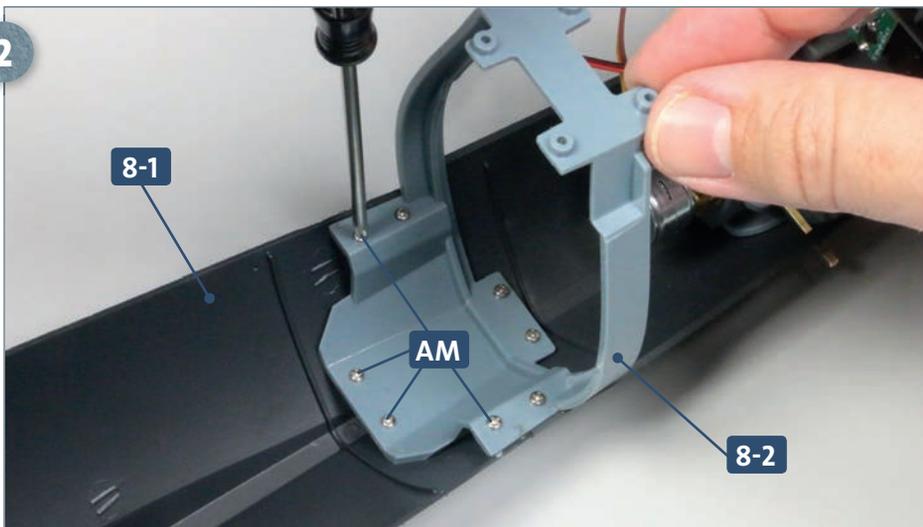
### STAGE 2 → Adding the hull section

1



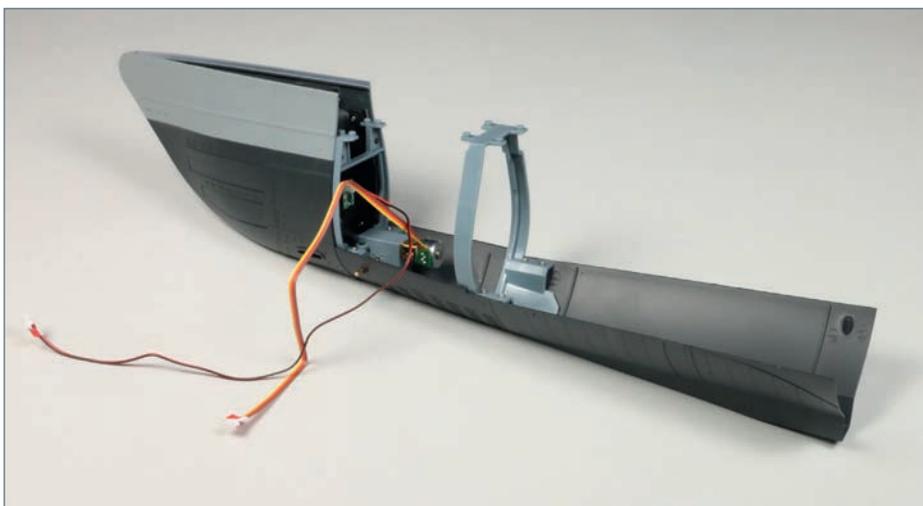
Take the lower hull section **8-1** and fit it onto the connector **8-2**, as shown.

2



Fix in place using four **AM** screws in the holes indicated in the image.

### COMPLETED WORK



A new section has been added to the hull.