

103.026

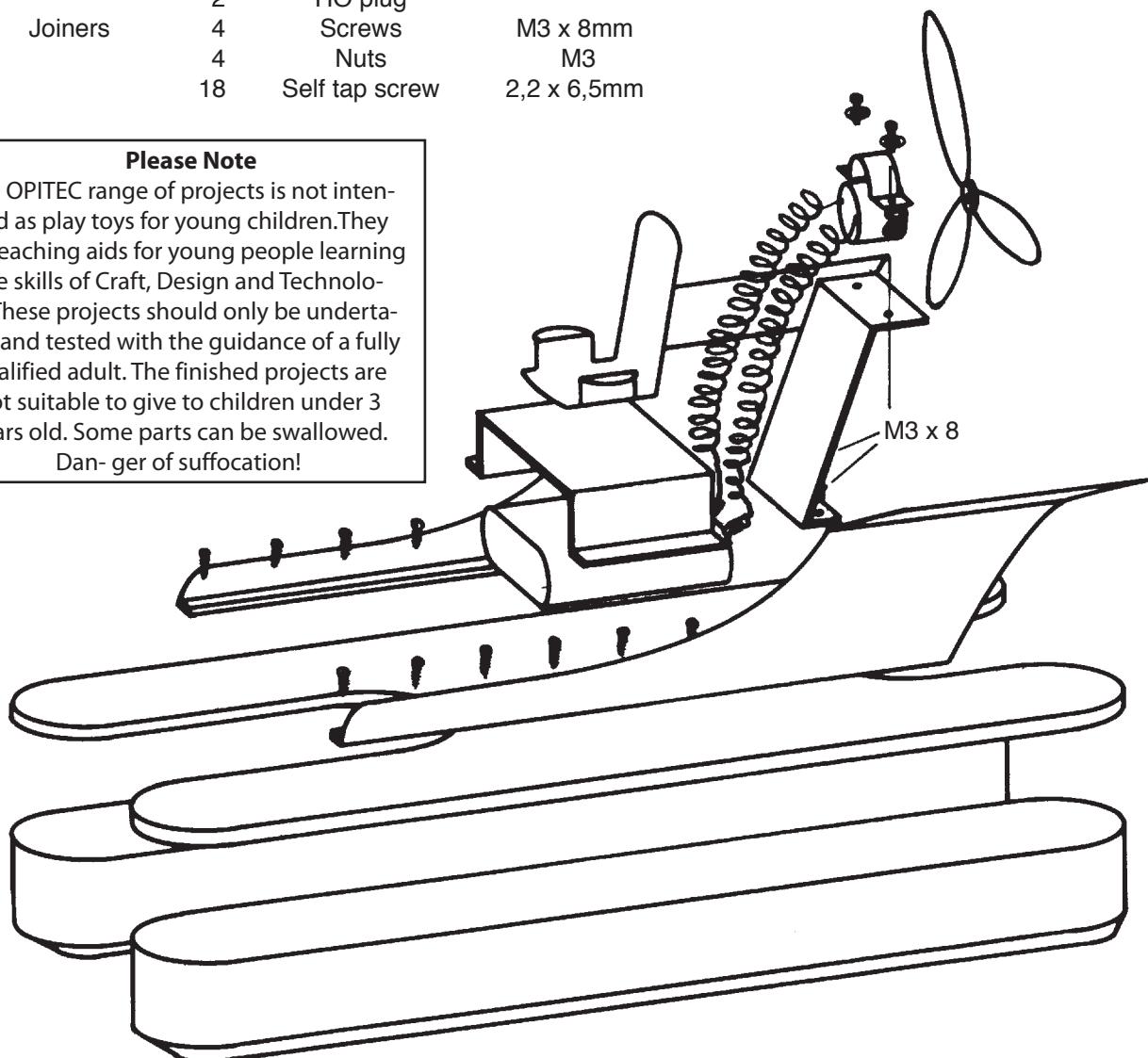
Catamaran

Parts list:

Part	Description	Quantity	Material	Size
1	Platform	1	Plywood	4 x 160 x350mm
2	Floats	2	Styrodur	40 x 50 x 350mm
3	Wings	1	Polystyrol	2 x 270 x 300mm
4	Drive	1	Electric motor	
		1	Holder	
		1	Propeller	
		1	Wire	
		2	HO plug	
5	Joiners	4	Screws	M3 x 8mm
		4	Nuts	M3
		18	Self tap screw	2,2 x 6,5mm

Please Note

The OPITEC range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of Craft, Design and Technology. These projects should only be undertaken and tested with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Danger of suffocation!



1.1 Description

The catamaran consists of two floats which are joined together with a platform. The floats are made from Styrodur, a hard foam which is easy to shape. The power is produced by an electric motor driving a propellor. The large model gives plenty of scope for imagination and individual design.

1.2 Construction

Platform

- Cut out the paper patterns (1+2) and carefully stick together.
- The pattern can then be laid out on the 4 mm ply and cut out using a Coping saw or similar. When cut out the platform should be finished with glasspaper.

Floats

- The styrodur floats can be glued to the platform with P.V.A. and then left to dry.
- Whilst this has been put to one side work can be carried out on the other parts of the model.
- When dry the shape of the floats can be formed, there is plenty of opportunity here for individual design work. It should be noted however that if the floats are made too pointed the ends will become thin and tend to break up, or if too much is taken off the bottom the catamaran will lay too deep in the water.
- The floats can be made more durable by painting with a waterproof glue.

Spoiler, seat, etc.

- The shapes of these parts can be taken from the plan or made to an individual design. The important thing is to take care when cutting out the plastic and producing a good finish on the edges using wet and dry paper or similar. If using your own design it's a good idea to experiment with paper patterns before cutting the plastic.
- The bend can be produced using a STRIP-HEATER which is especially designed for this work. Should this not be available an alternative heat source which does NOT have an open flame can be used.
- When complete the parts can easily be assembled as per the diagram on the front page.

Drive

- The motor can be fixed with the holder and mounted in position on the rear of the catamaran. Using the cable position on the rear of the catamaran. Using the cable provided make the final connection to the battery and switch.

We wish you much fun and success with this product!

Diagram 1

Catamaran

S 1 : 1

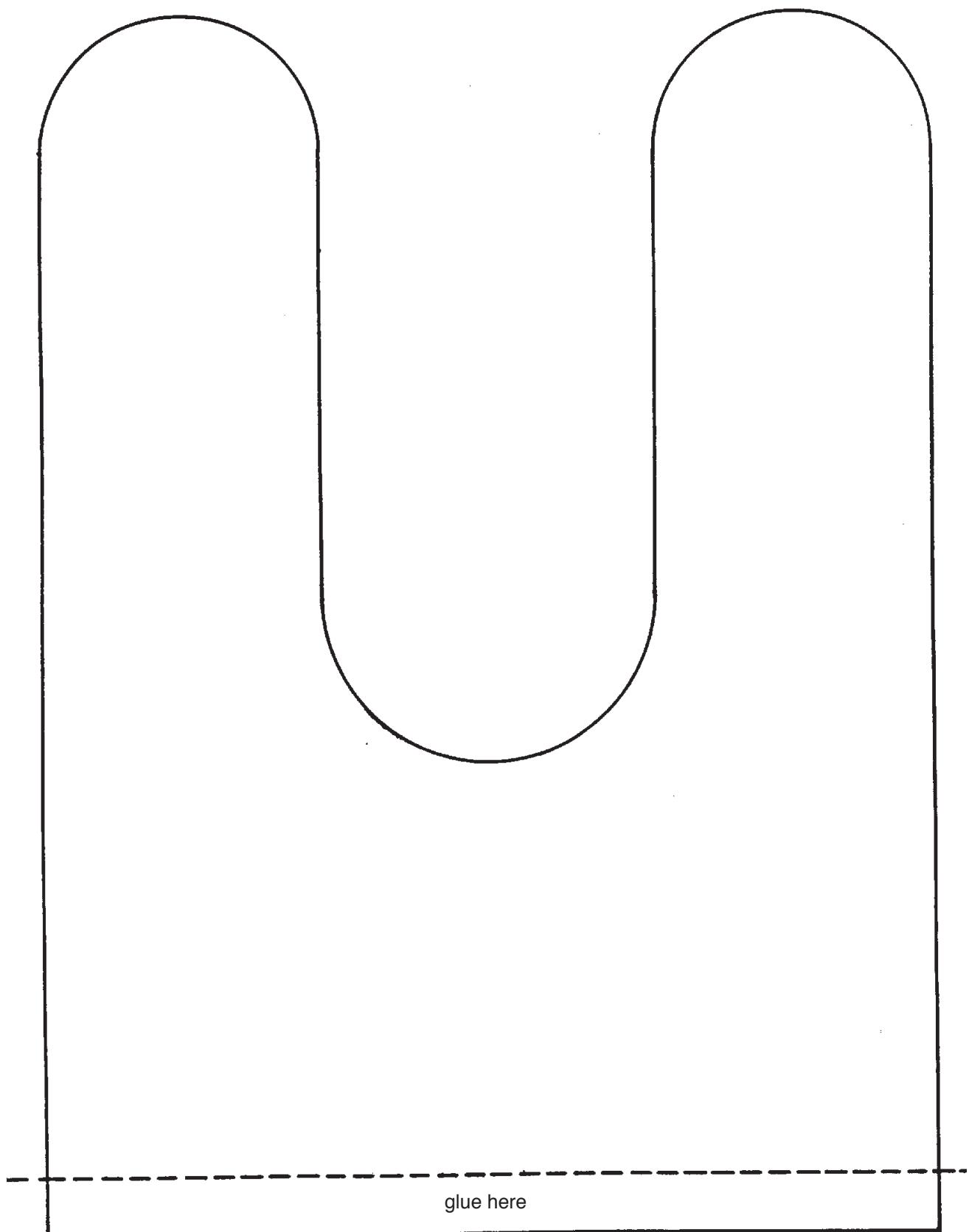
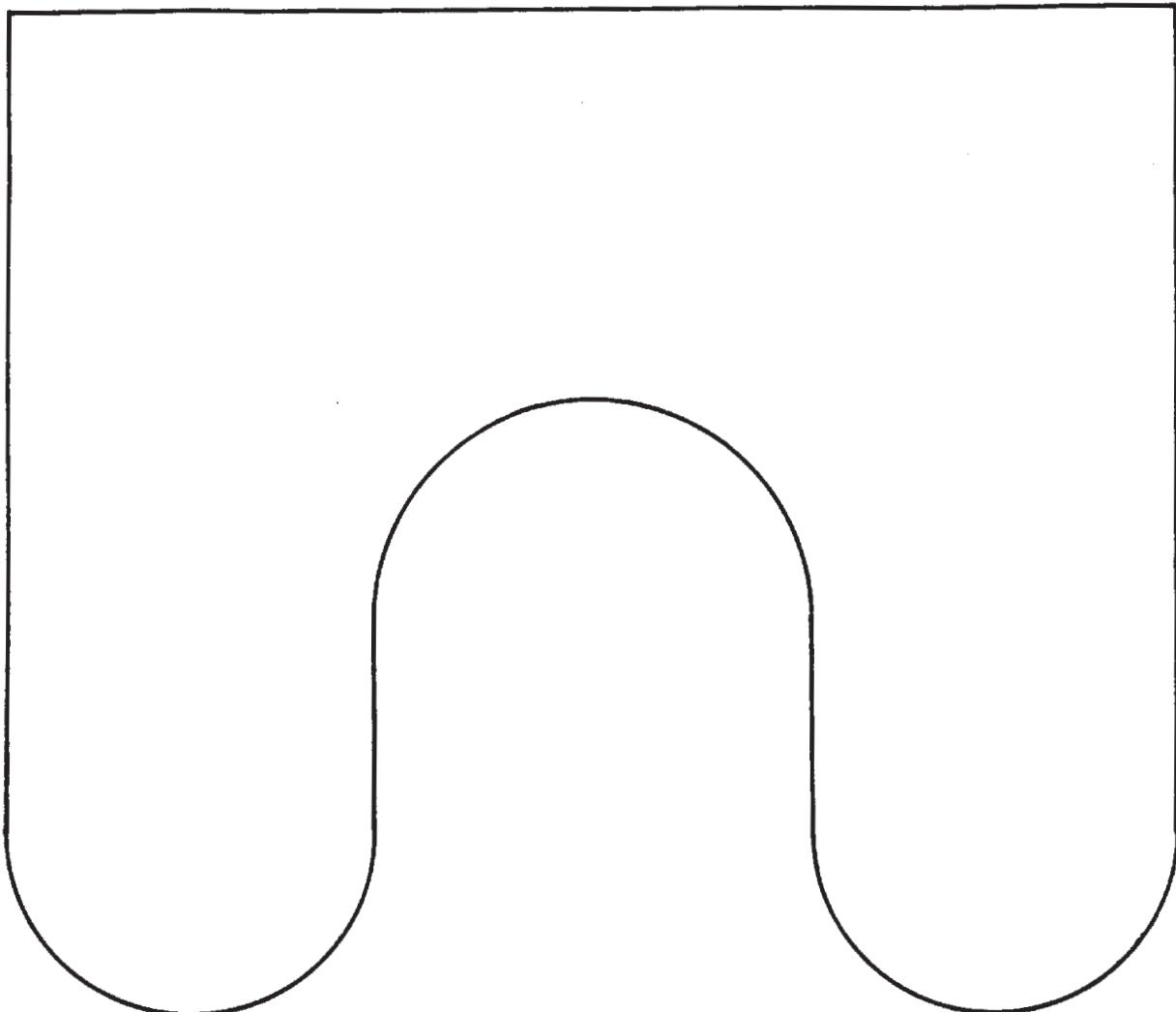
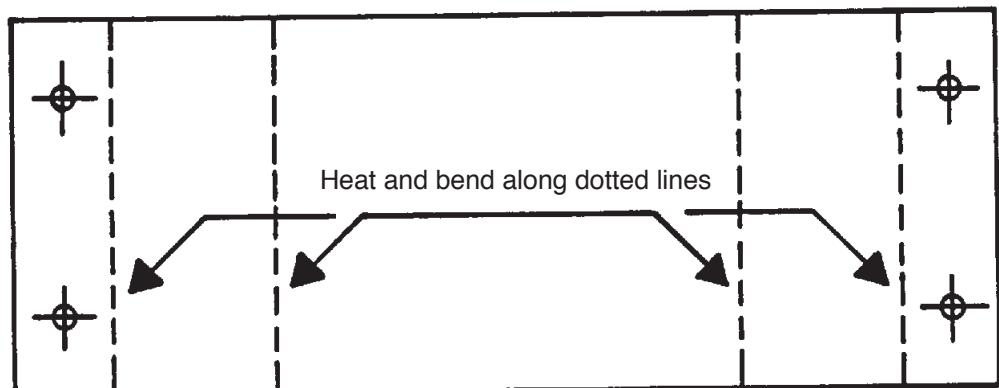


Diagram 2
Catamaran/Stern

S 1 : 1



Battery holder



Motor holder

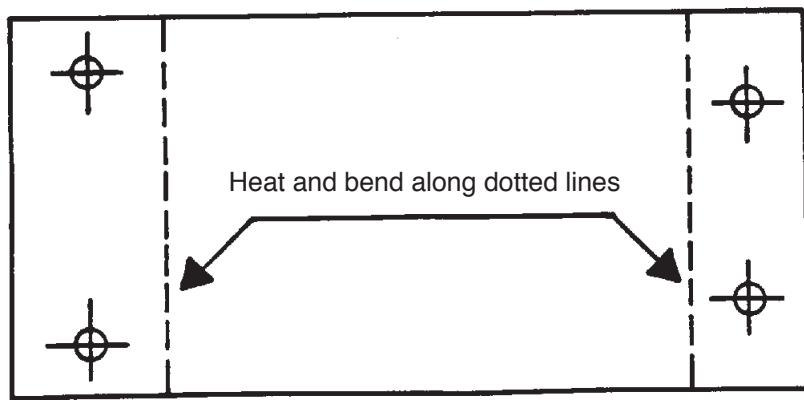


Diagram 3

Seat end spoiler

S 1 : 1

Spoilers

