Model Slipway - Model Boat Kits

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Model Slipway was formed in 1989 to produce model boats of the best detail, designed to look and perform like their full-size counterparts. Aimed at model makers with some experience, the range of kits is constantly expanding to provide a broader field of choice and interest.

The large scale kits are based on a glassfibre hull and come complete with underwater gear (prop shafts, rudders, propellers). Decks and superstructures are constructed from styrene plastic to mimic the finish of modern vessels. All kits are complete including a set of fittings together with constructional drawings, plans and building instructions. Paints, adhesives and radio control equipment are not provided, however, recommendations are given in the instructions. Tools and equipment will be required to complete.

If you have built a few wooden or plastic models, or have some modelling experience in other fields, as a “first” Model Slipway project we recommend the following kits: * *

AL KHUBAR Harbour Tug
COASTERS 10 and 4 Hatch
LOYAL CLASS Fleet Tender
SHAMROCK Fast Patrol
RANGE SAFETY Service Vessel
MAGGIE M. Trawler
1920s Puffer and Steam Drifter
Vosper RTTL, FSB Tenby, Club 500

Once you have built a few models you will probably find these kits well within reach: * * *

DUTCH COURAGE Multi-purpose Tug
AZIZ Anchor Handling Tug/Supply
SENTINEL Customs Cutter
VLIESTROOM Dutch Buoy Handler
WYEFORCE Harbour Tug
ENVOY Class Tugs
TSEKOA Canadian Buoy Layer
KAWKAB Class Fast Patrol

The following are aimed at experienced modellers who enjoy a constructional challenge: * * * *

TRENT Class Lifeboat
TAMAR Class Lifeboat
DRUMBEAT OF DEVON Fisheries Patrol Vessel

With over fifty years experience in model boat building, technical support is always available. We travel the country and attend exhibitions/shows, displaying and selling our product to the modelling public. Dates and venue information can be found on our regularly updated website.

Prototype models may be viewed and kits collected from our factory at Unit 8. Please contact us prior to your visit to ensure that your chosen product is in stock.

We trust you will find a kit in the following pages, which will be of interest to you. Should you have any queries or problems, please do not hesitate to contact us.

Lawrie and Jackie White

Dutch Courage

Multi-purpose Tug
Kit Code MS-29

Dutch Courage is a representation of *Dutch Pride* and *Dutch Power*, two of a series of tugs built in the Netherlands in 2003/04. Designed to operate in water depths not readily accessible by conventional tugs of deeper draft these vessels are suitable for a variety of applications including towing, pushing, supply and survey work. These tugs are fitted with a hydraulic telescoping deck crane and the rear deck space allows for the transportation of cargo, including containers. A feature of the vessels is the push-bow with heavy duty rubber fender. Crew: 6.

Scale 1:32 - Length o/a: 870 mm (34¼") - Beam: 285 mm (11½") - Displacement approx. 9 kg (19.8 lbs)
Twin screw – Suitable for electric propulsion.

With many step-by-step assembly drawings, instructions and main plans *Dutch Courage* will appeal to the discerning model maker and tug enthusiast. The kit contains all the required parts to build the model:

- A detailed glassfibre hull and lower superstructure
- The wheelhouse deck, wheelhouse and deflector are moulded in styrene as are the liferaft canisters and the stern roller
- Complete underwater gear: prop shafts, propellers, rudders and fixed Kort nozzles. A dummy bow thruster tube.
- A set of fittings manufactured from a high grade cast alloy and two frets of etched brass components including window frames, wheelhouse interior details, stanchions, funnel logos, mast ladder/cage etc.
- Printed parts for the decks, wheelhouse interior and funnels.
- A printed wood deck overlay.
- A kit for the detailed deck crane. An anchor windlass and a tow winch kit.
- Deck supports, wire for railings, push-bow fender, a set of tyres
- Self-adhesive vinyl lettering for six tugs of the series.
- Instructions, isometric drawings and plans.

Paints, adhesive and the flag are not provided.

Required for Operation: 2/4 channel RC, speed controllers, motors, couplings, battery and charger.

Visit the "Fotoalbum" at www.tugspotters.com to view similar tugs:
Dutch Pride, Dutch Power, Dutch Partner, Dutch Pioneer, Meander, Isa, Viking

Harbour Tug AL KHUBAR – Kit code MS 15

Built in 1976 these colourful tugs were in service in the Middle East and the United Kingdom. Al Khubar 1 was black, Al Khubar 2 red and Al Khubar 3 blue.

The large number of perspective assembly drawings and full-size plan make Al Khubar a fairly simple project for average modelling skills. With twin propellers and Kort nozzles the model is highly manoeuvrable and ideal for RC steering and tug towing competitions. Model specification:

Twin screw
Scale 1:32
Length: 785 mm (31”)
Beam: 240 mm (9½”)
Displacement approx: 22 lbs. (10 kg)

Kit Contents:

A detailed glassfibre hull with running gear (propshafts, rudders, Kort nozzles and propellers); CNC-machined and printed plastic styrene for the decks and superstructure to ensure accurate fit of parts; the wheelhouse interior; a set of cast alloy fittings, rubber tyres and fendering; tubing, wire, rod, model names etc. Instructions with numerous step-by-step assembly drawings together with a main plan.

Kit recommended for model makers with average modeling skills.

Paints and adhesives are not provided.

Required for Operation: 2/4 channel RC, speed controllers, motors, couplings, battery and charger.

AZIZ and ARIF

Anchor Handling Tug/Supply Vessels AZIZ and ARIF - Kit Code MS19

Built for worldwide operations to service and tow drilling units, and support production platforms *Aziz* and *Arif* were two of six AHTS vessels with fire fighting equipment owned by Prince Offshore of Sharjah, United Arab Emirates. They were powered by two diesel engines, total max. BHP of 4200 at 600 rpm, with fixed pitch propellers running in Kort nozzles. Maximum bollard pull: 52 tons.

The main feature of their deck machinery is a 120 t. double-drum waterfall type tow/anchor handling winch, diesel driven. One of the drums holds 730m of 50mm diameter towing wire that can be reeled in and out remotely from the wheelhouse. Additional towing wire is available as a spare on a separate reel. Two 3.1-ton capacity Tugger winches are fitted behind the superstructure one on each side of the cargo deck and a 6-ton electro-hydraulic deck crane is located on the boat deck for cargo handling. Each vessel is fully air-conditioned for hot and cold climates and berths are provided for 11 crew and 12 passengers.

The model is a twin screw representation of *Aziz* and *Arif* as supplied to Prince Offshore in the summer of 1983.

Scale 1:50 - Length 1105 mm (43½") - Width o/a 248 mm (10") - Displacement approx. 13 kg

Kit Contents: a high-quality detailed glassfibre hull ▪ Propshafts and tubes, rudders, twin propellers and fixed Kort nozzles; a dummy bow thruster tube ▪ Accurate CNC-milled plastic styrene parts for decks, superstructure and wheelhouse; printed styrene and printed wood deck overlay ▪ Moulded styrene dinghy, liferaft canisters and stern roller ▪ Metal kits for the large waterfall winch, the tugger winches, anchor windlass and deck crane ▪ Over 300 brass etched components for the fine detail finish including brass handrail stanchions; a set of cast alloy fittings ▪ All necessary rubber tyres, fendering, wire, rod, dowel, chain etc. to complete ▪ A sheet of waterslide decals for the vessel names and other details.

Excellent building instructions with numerous step-by-step assembly drawings of the highest standard and main plans. The flag, paints and adhesives are not supplied.

Kit Recommended for Model Makers with some experience.

Required for R/C Operation: 2 or 4 channel radio control system in conjunction with a servo and electronic speed control, motors, couplings, battery and charger.

COASTERS

Built in 1968-1973 in the German Democratic Republic for service in the North Sea and Baltic seaports, these coasters were designed as multi-purpose carriers, handling diverse cargoes such as wood, paper, grain, containers etc. A feature of the prototypes is the bulbous bow which reduces hydrodynamic drag resulting in considerable fuel savings. Over 30 vessels were originally built for Lars Rej Johansen of Oslo; however they have since changed hands and some have been heavily modified by their new owners. Model specifications:

Model Scale 1:50 - Length o/a: 1005 mm (39.5”) - Beam o/a: 204 mm (8”) - Displacement approx. 10 kg

Two kits are available in two variants:

10-Hatch Coaster (kit code MS-20)

A feature of the model is the hatch, made up of ten sections which slide along the top of the coaming sides and stack up against each other along the ramps at each end of the coaming. The ten sections may be joined together to form one large cover.

4-Hatch Coaster (kit code MS-21)

The main features of the model are the Articulated Mechanical Digger on a travelling gantry and the Hatch which folds vertical to allow the digger full access to the hold.

Kit Contents:

- A detailed glassfibre hull.
- Running gear: propshaft, rudder and propeller.
- CNC-machined and printed styrene for the decks, hatches, superstructure and wheelhouse.
- Moulded styrene for the lifeboats.
- A cast metal kit for the Windlass.
- A set of cast alloy fittings and etched brass components with brass handrail stanchions.
- Printed plastic parts for the Articulated Mechanical Digger and Travelling Gantry (4-Hatch kit only).
- All necessary, wire, rod, dowel for the masts etc. to complete the model as illustrated.
- Three main plans and a comprehensive instruction manual with a large number of assembly drawings make this model an enjoyable project for model makers with average building skills.

Paints and adhesives are not provided.

Required for R/C Operation: a two-channel radio, electronic speed control, motor, coupling, battery and charger.

DRUMBEAT OF DEVON

Kit Code MS-05

Based on a modified Stan Patrol 2200 design *Drumbeat of Devon* was built in 1991 by Damen for Devon County Council Fisheries Protection Department to patrol the North and South coast of Devon where she has to be capable of rounding the rugged Cornish coastline. *Drumbeat* has the endurance to support herself and crew for patrol periods of up to six days and is both fast and comfortable in most sea conditions. Maximum speed: 22 knots and cruising speed: 18 knots.

Twin Screw - Scale 1:24 - Length 915 mm (36") - Beam 230 mm (9")
Displacement approx. 7 kg

<u>Kit Contents</u>

A detailed glassfibre hull ▪ Propshafts and tubes, rudders and propellers ▪ Styrene plastic for the deck, superstructure and a highly detailed wheelhouse interior, which alone includes 300 parts ▪ A set of approximately 250 cast white metal fittings with handrail stanchions ▪ Vacuum-moulded rescue boat, dinghy and liferaft canisters ▪ A large "HIAB Seacrane" kit ▪ Wood dowel for mast, rod for railings ▪ Waterslide transfers for model name etc.

With comprehensive assembly instructions and drawings the kit is within the capabilities of the reasonably experienced model maker.

Paints, adhesives and crew figures are not provided.

<u>Required for R/C Operation</u>: 2/4 channel RC, speed controllers, motors, couplings, battery and charger.

ENVOY CLASS TUGS

The six vessels of the class, namely *Enchanter, Encore, Enforcer, Enigma, Enticer* and *Envoy* were built and completed in 1944 for the Admiralty by Cochrane & Sons of Selby. The vessels were used as fleet tugs during World War II and fitted with a 12-pounder deck gun, two Oerlikon guns and two Colt machine guns for defence when on escort or rescue duty. After the war the tugs were sold into commercial service and renamed *Englishman, Cintra, Vernicos, Matsas, etc.* Model specification:

Scale 1:48
Length 1108 mm (43½")
Beam 248 mm (9¾")
Displacement 11.5 kg (25 lbs)
Suitable for steam or electric propulsion

The Kit

The model is built around five GRP mouldings: the hull with external plating detail, superstructure, wheelhouse, engine room and funnel. The kit includes the running gear (rudder, propeller shaft, propeller), over 800 etched brass components and white metal fittings with brass stanchions.

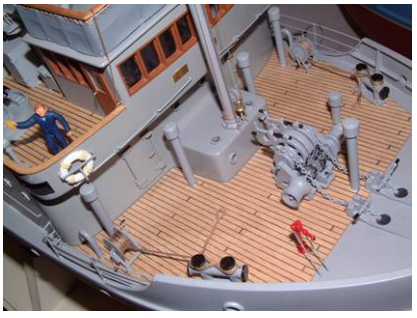
Also provided are CNC-milled styrene sheets and printed styrene sheets, printed ply deck overlays, moulded styrene ship's boats, resin-cast Carley floats and an anchor windlass kit. Rod, wire, dowel and other items needed to finish the model are also included. In addition to the two full size plans, a large number of perspective assembly drawings are given to enable the discerning enthusiast to build this model to museum standards.

Two kits of the Envoy are available:

- **ENVOY Admiralty Tug**
  (Armed)

  Kit code MS-17

  This kit includes a 12-pounder deck gun, two Oerlikon and two Colt machine guns. Model names and pennant numbers for the six vessels are supplied. The flag is not provided.



ENVOY CLASS Tugs

- **ENVOY Salvage Tug** (post-war)

  Kit code MS-18

  This kit does not include the set of guns, post-war vessel names, and the flag.

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The flags, paints, glues, hull fenders are not provided.

Required for R/C Operation:

A two-channel radio control system in conjunction with a servo and electronic speed control, motor, coupling, battery.

Fast Patrol Craft

Kawkab

Kit Code MS-27

A representation of a Vosper Thornycroft *Kawkab Class* Patrol Craft built in 1968/69.

Fitted with the recommended motors this model is capable of an exciting performance on the water.

Twin screw
Scale 1:20 - Length 950 mm (37½")
Width 280 mm (11")
Displacement approx. 6 kg

Recommended for model makers with previous building experience.

The kit contains all parts required to build the model as illustrated, except for the crew figures:

- A glassfibre hull
- CNC-machined styrene plastic deck and superstructure components with printed plastic parts.
- Complete underwater gear, i.e. propshafts, propellers and rudders.
- A set of cast metal fittings and handrail stanchions. Metal kits for the 20mm Guns.
- Brass etchings for the window frames and cockpit details.
- Vacuum-moulded liferaft canisters, liferings, funnel etc.
- Other items include rubber fendering, plastic strips, wire, model name and numbers.
- To assist in the assembly of the model, step-by-step isometric drawings and instructions are provided with full size plans.

Paints, adhesives and crew figures are not provided.

Required for R/C Operation: 2 or 4 channel radio control system, electronic speed control, motors, couplings, battery and charger.

LOYAL Class

Kit Code MS-07

The *Loyal Class* vessels were built by Holmes to a Royal Navy design in the 1970s for transporting stores, and to carry crew and supplies out to naval vessels at anchor or on moorings. The tenders have since been sold out of Navy service and converted to dive support tenders, medical relief vessels etc.

Model Scale 1:24
Length: 1015 mm (40")
Beam: 280 mm (11")
Displacement approx. 11 kg

The kit enables the model maker to build a model of any one of the 8 vessels of the *Loyal Class*, or with very slight modifications any one of the 33 vessels of the A, B and X class tenders. The comprehensive instructions and drawings make *Loyal* a fairly simple project for modellers with limited experience. The techniques learnt in building this boat would set them up for more ambitious projects in the future.

Kit Contents:

- A detailed glassfibre hull
- The running gear: a propshaft, rudder and propeller.
- Die-cut and printed styrene plastic parts for the deck, the superstructure and wheelhouse interior details.
- A set of over 250 cast alloy fittings with handrail stanchions.
- Metal kits for the cargo winch and the anchor windlass.
- A vacuum-moulded clinker dinghy kit, liferaft canisters and funnel.
- Wooden dowel for mast, rod for railings etc.
- Comprehensive assembly instructions and drawings.

Paints and adhesives are not provided.

Required for R/C Operation (not included): a 2-channel radio control system, motor, coupling, electronic speed control, battery and charger.

MAGGIE M.

Kit Code MS-03

Built in 1990 by Campbeltown Shipbuilders Ltd (Scotland) MAGGIE M operates out of Scarborough harbour in Yorkshire, United Kingdom. The vessel is designed for twin-rig trawling and the aluminium shelter deck is a cover over the fish processing room. The shelter deck allows the trawling to be undertaken in virtually all seas, the winch being controlled from the back interior of the wheelhouse thus minimizing the exposure by the crew to the weather elements.

MAGGIE M. is designed to operate in the most arduous sea conditions and the model performs brilliantly on rough waters. With its Becker rudder and Kort nozzle the model can be made to turn almost within its own length - a fine club regatta boat.

Scale 1:32
Length: 850 mm (33½")
Beam: 255 mm (10")
Displacement approx. 10 kg

The kit contains approximately 1000 parts including a high quality one-piece glassfibre hull, propeller shaft and tube; Becker rudder, Kort nozzle and propeller. Styrene plastic is provided for the deck, superstructure and a detailed wheelhouse interior, along with a set of over 300 cast metal fittings including handrail stanchions.

Also provided are cast metal kits for the winches and power block, thermo-formed liferaft canisters and radar; wooden dowel for mast and booms. All necessary rod, chain, netting material are supplied. Detailed assembly instructions and drawings.

The kit is suitable for model makers with average modelling skills.

(Paints, adhesives and tools are not provided).

Required for operation: 2-channel radio control system, speed control, motor, battery and charger.

Service Vessel

RANGE SAFETY

Kit Code MS-14

Twin Screw
Scale 1:16
Length 950 mm
Displacement approx. 5 kg

The primary task of these craft is firing range surveillance and clearance in coastal areas around the United Kingdom. Twelve craft in total were built from 1978 to 1984.

Building the model does not require great skills as many parts are ready-made thus ensuring that the boat is completed in a relatively short time. While the plan is of the 15m Range Safety Craft, the model lends itself to adaptation into other boats such as pilot launches, police launches etc. With twin propellers, performance on the water is realistic and true to scale. *Recommended for model makers with a little experience.*

Model Specification:
Twin screw - Semi scale 1:16 - Length 950 mm (37¼") - Displacement approx. 10 lbs (5 kg)

Kit Contents: one-piece glassfibre hull; propshafts and tubes; rudders and propellers. Vacuum-formed deck and cabin with a detailed interior; battery and motor tray. Printed styrene for details; window glazing; a set of cast alloy fittings; wire for railings; decals; perspective assembly drawings together with a full size plan. The flag, paints and adhesives are not provided.

Required for operation: 2/4 channel radio, electronic speed control, motors, couplings, battery & charger.

Police Launch

SHAMROCK

Kit Code MS-13

Scale 1:24
Length 685 mm (27")
Width 209 mm (8¼")

Shamrock is a semi-scale police launch based on Halmatic M160 Class fast patrol craft. Three such vessels are in service with various Caribbean Island states. Shamrock is operated by the police on the island of Montserrat.

The kit is designed as an introduction to the skills and techniques of constructing a model boat from a glassfibre hull and styrene parts for the cabin, with major fittings either vacuum-formed from styrene or cast in alloy.

Model Specifications:
Single screw - Semi scale 1:24 - Length excluding rescue boat: 685mm (27") - Beam: 209 mm (8¼")

Kit Contents: a glassfibre hull; propshaft and tube, rudder and propeller. Printed styrene parts for deck/superstructure and window glazing. Moulded styrene battery tray, motor mount and rescue boat kit. A set of cast metal fittings. Rod for railings, wooden dowel, model name, chain etc. to complete the model as illustrated. A large number of perspective assembly drawings together with a full size plan make this kit an ideal project for an advanced beginner. (Paints and adhesives are not provided).

Required for operation: 2-channel radio, electronic speed control, motor, coupling, battery and charger.

HM Customs Cutter

Sentinel

Kit Code MS-12

Sentinel is a 34m Island Class cutter operated by the British Customs and Excise. Built by Vosper Thornycroft and launched in December 1993, she has been designed to carry out a wide range of law enforcement duties, including anti- smuggling, search and rescue, covert surveillance etc. She is one of a highly successful class of fast patrol craft and boasts sophisticated navigation, surveillance and communications equipment.

Sentinel is powered by two 12-cylinder 1900 kW Paxman Valenta marine diesel engines and has separately powered steerable water-jet and bow thruster units; these enable the vessel to be turned around in her own length for docking in restricted berths around the UK. Top speed is in excess of 25 knots. The hull is fabricated from steel, using computer-controlled laser cutting and robot welding machines. The superstructure is made from aircraft-grade aluminium, explosively welded to the deck to prevent corrosion. Outwardly the most obvious feature of the vessel is the Avon Searider rigid-inflatable boat (RIB) carried on a hydraulic davit on the aft deck. This facilitates the boarding of target vessels in rough weather and busy sea-lanes. A crew of 12 officers drawn from HM Customs and Excise personnel operate the vessel, though she has accommodation for another five persons.

Scale 1:40 - Length 940 mm (37”) - Width 190 mm (7½”) - Displacement approx. 3.7 kg

Kit Contents

- A glassfibre hull with moulded-in fendering and spray rail
- Running gear: propshafts, rudders and propellers
- Printed styrene for decks and superstructure
- A set of white metal fittings and etched brass components including window frames
- Cast metal kit for the anchor windlass
- A resin-cast Avon Searider inflatable boat kit.
- All necessary wire for railing, mesh, chain, rope to complete the model as illustrated.

The numerous perspective step-by-step assembly drawings and plan make *Sentinel* a pleasure to build.
The twin rudders and stabilizers guarantee excellent handling on the water.

Paints, adhesives and flag are not provided.

Required for R/C Operation: 2 or 4 channel R/C, electronic speed control, motors, couplings, battery and charger.

TRENT CLASS Lifeboat

Kit code MS 11

The Royal National Lifeboat Institution (RNLI) is a charity dedicated to saving lives at sea around the coasts of the United Kingdom and Ireland. The organisation is funded entirely by membership fees, voluntary donations and legacies from members of the public.

The *Trent Class* lifeboat has been designed to lie afloat at deep water moorings or at berth. Propeller protection is provided by tunnels and by deep bilge keels which allow the boat to take the ground if needed. Capable of high performance, even in atrocious weather, the *Trent Class* lifeboat is self-righting after a capsize and is fully fitted with modern navigation, location and communications equipment. Constructed from fibre reinforced composite which combines strength with light weight, the hull is subdivided into six compartments. The wheelhouse contains seating for six or seven crew with provision for one stretcher in the wheelhouse and another in the fore cabin with seating for 10 survivors.

Model specification: Scale 1:16 - Length 918 mm (36”) - Beam 317 mm (12¼”) - Displacement approx. 8 kg

The kit includes approximately 1200 parts and is recommended for the more experienced model maker. With twin propellers the model is highly manoeuvrable and performance on the water is realistic and true to scale.

Kit Contents:

- A detailed glassfibre hull.
- Rudders, propeller shafts and propellers.
- Styrene plastic parts for the deck, the superstructure and a highly detailed wheelhouse interior with seven seats, tables and instrumentation.
- A set of cast metal fittings and two sheets of etched brass components for the fine detail.
- Names and registration numbers to build any one of 17 vessels of the class.
- Main plans, numerous diagrams and assembly instructions.

Paints, adhesives, the flags and crew figures are not provided.

Required for R/C Operation: 4-channel R/C system, electronic speed control, motors, couplings, battery, charger.

£10 from the sale of this kit will be paid in support of the RNLI.
Payments will be made to RNLI (Enterprises) Ltd, which pays all its taxable profits to the RNLI, charity registered in England, Scotland and the Republic of Ireland.
The RNLI is the charity that saves lives at sea. For more information please visit www.rnli.org.uk

The Tamar class is the result of several years of research and development by the RNLI to produce the next generation of slipway-launched lifeboat. It is virtually unsinkable and if it capsizes in the stormy seas around the British Isles, it will right itself within a few seconds. The Tamar will gradually replace the Tyne class. The lifeboat includes the computerised Systems and Information Management System (SIMS) that enables crew to control many of the lifeboat's functions remotely from the safety of their seats. Other features include advanced ergonomics that reduce the impact on the crew as the lifeboat crashes through waves, and a powered Y-class boat stored behind a transom door to allow immediate deployment. The Y-boat is accessed by lifting a section of the rear deck, then launched and recovered on to a ramp provided by the lowered transom door.

The kit contains all the required parts to build the model:

- Two glassfibre mouldings: the hull and the deck
- Prop-shafts, propellers, brass rudders; a bow-thruster tube
- CNC-cut and printed styrene parts for the construction of the cabin. Detailed cabin interior comprising the seats and front bulkhead from vac-formed styrene
- A set of fittings and stanchions manufactured from high grade cast alloy. Three large frets of etched brass components including detailed window frames, instrumentation, interior detail
- Pre-formed mast arches from brass tube
- Vac-formed styrene radar, bow fender, liferaft boxes, liferings, the filler bays and hose reel
- A vac-formed styrene kit for the Y-class boat with Lettering and Numbers. Rubber fendering, wire, dowel etc.
- Self-adhesive *Lifeboats* lettering and *RNLI* flags. Three main plans and over 70 isometric drawings

The Y-boat compartment under the rear deck is an optional fitment with a choice of building the deck door as a one-piece removable unit or with folding sections. The transom door can be represented by a score in the GRP or drawn in with a permanent marker pen. The more experienced model maker will no doubt wish to build a working transom door however no details are given in the kit. We have ensured that the steering gear is below the Y-boat deck level should the modeller wish to house the Y-boat below decks.

Not supplied in the kit: The cabin name boards, hull & cabin roof Numbers and Lettering (contact details of supplier in kit). Paints, adhesives and tools will be required to complete.

Required for R/C Operation: 4-channel RC, speed control, motors, couplings, battery and charger.

£15 from the sale of this kit will be paid in support of the RNLI. Payments will be made to RNLI (Enterprises) Ltd, which pays all its taxable profits to the RNLI, charity registered in England, Scotland and the Republic of Ireland.

Canadian Buoy Maintenance Vessel

TSEKOA II

Kit Code MS-04

Built in 1985 by Allied Shipbuilders of Vancouver for Public Works of Canada, TSEKOA II was used in the construction, maintenance and repair of buoys, docks and other marine structures in the numerous small harbours along the British Columbia Pacific coastline. In the early 1990s TSEKOA was sold to the Canadian Coast Guard and painted Red.

Scale 1:32
Length 845 mm (33¼")
Width 235 mm (9¼")
Displacement approx. 10 kg

With twin screw the model is very stable and extremely manoeuvrable – a good steering regatta boat.

Kit Contents:

A detailed glassfibre hull, propshafts and tubes, rudders and propellers. A set of cast metal fittings and handrail stanchions. A dinghy and a large Atlas crane kit. All dowel for mast, rod for railings, model name, comprehensive assembly instructions, diagrams and main plans.

Kit for model makers with average building skills.

Required for Operation:

2 or 4 channel radio control system, electronic speed control, motors, couplings, battery and charger

VLIESTROOM - Kit Code MS-16

Vliestroom and her sister ships *MV Nieuwe Diep* and *Schuitengat* were built by Damen Shipyards in 1987-90 for the Dutch Ministry of Transport and Waterways. The folding main mast and cantilevering radar masts together with the low draught flat-bottomed hull allow for a very versatile craft, which can encounter low bridges and shallow waters in and around Holland. This unusual and distinctive model is based on *Vliestroom*, built in 1987, operating out of Hellevoetsluis.

Twin Screw
Scale 1:40
Length 960 mm (37¾")
Beam: 220 mm (8½")
Displacement approx. 10 kg

The kit contains the usual high quality glassfibre hull, with running gear including brass propellers and nozzles. A bow thruster tube. Deck and superstructure are machined using CNC equipment to ensure accurate fit of parts; the very detailed wheelhouse interior includes etched brass instrumentation.

Also included are the cranes, resin-cast dinghy, vacuum-formed buoys, etched brass components for the fine details, brass handrail stanchions, cast metal fittings, all decals, wire, rod etc. to build the model as illustrated (the flag is not provided).

The plans and step-by-step assembly drawings make this model an enjoyable and relaxing project for model makers with average building skills. The large deck crane which elevates and swivels will without a doubt be a challenge for the more experienced model maker wishing to radio control it.

Paints, adhesives and the flag are not provided.

Required for Operation: 2 or 4 channel radio control system in conjunction with one servo and electronic speed controllers, motors, couplings, battery and charger.

Harbour Tug

WYEFORCE

Kit Code MS-09

Built in 1994 by Hepworth Shipyards of Hull for Itchen Marine *Wyeforce*'s work will include ship towage and liner berthing in and around Southampton. Her hard chine hull is heavily built, with a conventional twin-screw layout using fixed pitch propellers working within fixed Kort nozzles.
Bollard pull: 19 tons. Free running speed: 11 knots.

On the water the performance of *Wyeforce* is outstanding due to the large Kort nozzles and propellers, ideal for RC steering and tug towing competitions.

Scale 1:24
Length: 840 mm (32¾")
Width: 290 mm (11¼")
Displacement approx. 10 kg

Kit Contents:

A one-piece glassfibre hull. Full running gear including Kort nozzles and propellers. Styrene parts for decks and superstructure with a detailed interior. Also provided are cast metal fittings, stanchions,
and etched brass window frames; bow fender and tyres. The comprehensive assembly instructions, diagrams and plans make this a fairly simple project for average modelling skills.

Paints and adhesives are not provided.

Required for Operation : 2 or 4 channel R/C, motors, couplings, speed control, battery and charger

Mini Kits

Vosper R.T.T.L.

Semi-Scale 1:40
Single Screw
L. 500 mm

The kit contains a one-piece thermo formed hull, deck, cabin, internal tray with motor mount and battery tray, rudder halves, windbreak, winch-house and dinghy. Also provided are: printed plastic parts for the deck and other details, window glazing, a set of metal fittings; vinyl lettering for RTTL 2751 to 2755, roundels; the running gear with a motor, propshaft/propeller, rubber coupling and tiller arm.

FSB Tenby

Scale 1:32
L. 500 mm

The kit includes a one-piece thermo formed hull together with a thermo formed deck, cabin and bulkhead, motor mount, shaft and rudder supports, battery and radio tray. Also included are: a set of metal fittings, the running gear with a motor, propshaft and propeller, rubber coupling and a single rudder and tiller arm assembly. Other items include rubber fender, plastic strips, wire for railings, window decals and glazing.

Steam Drifter

Scale 1:72
L. 380 mm

The model is built around a two-piece thermo formed hull, thermo formed boiler casing and ship's boat. Also provided are printed plastic parts for the deck and wheelhouse, etched brass and metal fittings, an anchor windlass, propshaft and threaded propeller, brass rudder, motor and rubber coupling, and all necessary items to build the model as illustrated.

1920s Puffer

Scale 1:72
L. 325 mm

The kit is based on a two-piece thermo formed hull and printed plastic parts for the decks and wheelhouse. Also provided are over 130 metal fittings and etched brass components, an anchor windlass kit, the underwater gear with a prophaft, a threaded propeller, brass rudder, motor and rubber coupling, wire for railings etc. The more experienced modeller could add deck planking, a smoke generator and other refinements to make a more detailed model.

The kits contain assembly drawings, plans and building instructions. Paints, adhesives and radio control are not supplied.
Kits suitable for model makers with some experience. We reserve the right to alter the specifications of the models, without prior notice.

CLUB 500

Fun Boat

Model Specifications:

Length 515 mm - Beam 180 mm - Weight incl. R/C 1.6 kg

Moulded in high impact styrene *Club 500* is intended to offer a low cost medium speed boat suitable for general use or for one-class club racing. Everything to build the basic model is supplied - including propeller, propeller shaft, rudder/tiller, 550 motor, coupling and window decals. The rear spoiler can be installed in either of two positions thus providing a choice of appearance. *This kit is not suitable for children*.

Colours available: red, yellow, green, blue, white, orange deck and cabin, with white hull in all cases.

All parts including the running gear are available separately. Club 500 is a 'no frills' kit. Available direct from Model Slipway.

Additional items required:

A good pair of scissors; a modelling knife; coarse sandpaper and rubbing block; masking tape; a small round file; pliers; double-sided sticky pads and elastic bands. Two-part epoxy (silicone sealant is not recommended).

A two-channel radio control system using either a servo operated speed control, or micro switch to motor control (or an electronic speed controller minimum 15 amps continuous rating); 6v - 7.2v Nicad pack (buggy type), and battery charger.

Following are Basic Club 500 Racing Rules:

Any course and race duration may be envisaged and designed to the club's requirements.

- No alterations to the model shall be allowed, i.e. original motor, coupling etc. No 'hot' motor or different propeller. No motor commutator additives.
- No modifications to below water line.
- Ordinary 2-channel radio using either an electronic speed control or servo operated control, or micro switch to motor control.
- Nicad or Metal Hydride 6 to 7.2v battery pack.
- Buoyancy may be added i.e. airbags.
- Above rules are, of course, implemented if used for Club 500 racing - this will ensure that all competitors are equal and that fair racing ensues.

MODEL SLIPWAY
Model Boat Kits

Phone & Fax: +44 (0) 1226 770008
E-mail: info@modelslipway.com

KITS and MOTOR PACKS PRICES for the U.K. and European Union

The prices are valid from 1st June 2008 and are inclusive of VAT. We reserve the right to alter these prices as necessary, without prior notice.

KIT PRICES (Large Kits)

Model Name / Kit Code	*Kit Price £*	*Number of Motor Packs required per kit*	*Recommended Battery (not supplied)*
AL KHUBAR MS-15	£194	two Pack 2	6v 10/12Ah
		two Pack 1	12v 7Ah
AZIZ MS-19	£264	two Pack 2	6v 10/12Ah
		two Pack 1	12v 7Ah
COASTER 10-Hatch MS-20 4-Hatch MS-21	£234	one Pack 2	6v 10/12Ah
		one Pack 1	12v 7Ah
DRUMBEAT OF DEVON MS-05	£219	two Pack 7	two 8.4v 3300 mAh
DUTCH COURAGE MS-29	£234	two Pack 2	6v 10/12Ah
		two Pack 1	12v 7Ah
ENVOY Class WW2 MS-17	£349	one Pack 1	12v 7Ah
ENVOY Class post-war MS-18	£299	one Pack 1	12v 7Ah
KAWKAB MS-27	£199	two Pack 7	two 8.4v 3700 mAh
LOYAL Class MS-07	£215	one Pack 2	6v 10/12Ah
		one Pack 1	12v 7Ah
MAGGIE M. MS-03	£205	one Pack 2	6v 10/12Ah
		one Pack 1	12v 7Ah
RANGE SAFETY MS-14	£145	two Pack 7	two 8.4v 2000 mAh
SENTINEL MS-12	£199	two Pack 3	7.2v Sub C Power Pack
SHAMROCK MS-13	£114	one Pack 3	7.2v Sub C Power Pack
TAMAR Class MS-30	£350 *	Two Pack 7	8.4v – 9.6v
TRENT Class MS-11	£274 *	two Pack 7	8.4v – 9.6v
TSEKOA II MS-04	£189	two Pack 2	6v 10/12Ah
		two Pack 1	12v 7Ah
VLIESTROOM MS-16	£219	two Pack 4	6v or 7.2v
WYEFORCE MS-09	£205	two Pack 2	6v 10/12Ah
		two Pack 1	12v 7Ah

** Price includes payment to the RNLI Charity.*

MODEL SLIPWAY
Model Boat Kits

Phone & Fax: +44 (0) 1226 770008
E-mail: info@modelslipway.com

MOTORS PACKS for above Large Kits

Pack Ref.	*Pack Contents*	*Price per Pack (incl. VAT)*	
Pack 1	*Torpedo 500* motor geared **6:1** (best run on **12** volt) : £20 coupling: £6.50	£26.50	
Pack 2	*Torpedo 500* motor geared **2.5:1** (best run on **6** volt) : £20 coupling: £6.50	£26.50	
Pack 3	540/1 motor (4.5-15v) : £7 + coupling : £6.50	£13.50	
Pack 4	RE385 motor (3-7.2v) : £5 + coupling : £6.50	£11.50	
Pack 6	550 fan-cooled motor (6-7.2v) : £8 + coupling : £6.50	£14.50	
Pack 7	Speed 600 ECO motor : £12.50 + coupling : £6.50	£19.00	

NOTE: Some kits contain white metal propellers. In order to obtain increased performance with the above Motor Packs it will be necessary to replace the propellers with brass ones. Please contact us for advice.

PRICE LIST – Mini Kits (with motors)

Model Name / Kit Code	*Kit Price £*	*Motor & Coupling*	*Recommended battery (non supplied)*
Vosper RTTL MS-26	£45	Included in kit	6 x AA cells
Steam Drifter MS-25	£48	Included in kit	4 x sub-C cells
1920s Puffer MS-22	£48	Included in kit	4 x AA cells
FSB Tenby MS-28	£45	Included in kit	6 x sub-C cells

CLUB 500

U.K. Prices
1 kit - £38 + £8 for UK carriage
2 to 4 kits - £34 each + £10 carriage
5 to 8 kits - £32 each + £10 carriage
9+ kits - £30 each + carriage on application

Above carriage excludes delivery to Scottish Highland and Islands, the Isle of Man and Northern Ireland.
For these areas please contact us stating the destination post code and quantity of kits required.
Overseas prices on application.

Carriage and Postal Charges

from 1st June, 2008

Within the UNITED KINGDOM

Carriage for the large kits is charged as under:

- £10 for England, Wales and Scotland excl. the Highlands & Islands
- £18 for the Highlands and Islands
- £20 for Northern Ireland and the Isle of Man

The Mini Kits are despatched by the Post Office "Recorded Signed-For" service.
Delivery within 3 to 5 working days, from day of posting. The charges are as follows :

1920s Puffer: £3.50	Steam Drifter: £3.50
FSB Tenby: £7	Vosper RTTL: £7

CLUB 500 : carriage charges are specified in previous page. Overseas on application.

To EUROPE (incl. VAT)

Please contact us for carriage charges stating country of destination and post code.

Model Slipway

Placing your order

- By telephone : UK 01226 770008 – International 00 44 1226 770008

- By fax: print out the Order Form and fax it to UK 01226 770008 – International 00 44 1226 770008

- By mail to: Model Slipway, 77 Arundell Drive, Lundwood, Barnsley S71 5LE, U.K

Kits may be collected from our workshops at Unit 8, Grange Lane Industrial Estate, Carrwood Road, Stairfoot, Barnsley S71 5AS. It is advisable to phone first, to ensure that your chosen kit is in stock.

Pricing

The prices quoted include VAT at 17.5%. We reserve the right to alter prices as necessary and without notice. Carriage is charged on all orders unless otherwise stated.

A deduction will be made from the purchase price for those residents of countries outside the EU, where Value Added Tax (VAT) is not appropriate.

International shipments: the recipient of an international shipment may be subject to import duties and taxes, which are levied once a shipment reaches your country. Additional charges for customs clearance must be borne by the recipient; we have no control over these charges and cannot predict what they may be. Customs policies vary widely from country to country; you should contact your local customs office for further information. We are not prepared to falsify customs declarations regarding contents and value.

Postage and Carrier Charges

The large kits are dispatched by carrier. Most deliveries to UK mainland addresses are made within 2 working days, from day of dispatch.

International orders are dispatched with FedEx, DHL or DPD. The carrier's rate of charge is calculated on volumetric weight.

Payment with order by the following methods:

- By Sterling cheques drawn on a UK based bank, or postal orders made payable to « Model Slipway ».

- By Debit or Credit card (except for Amex). The following details are required:

- Cardholder's name as shown on the card, address and post code (zip code)
- Card number, expiry date, valid from date and issue number (if there is one)
- The last three digits of the security code on the back of the card.

  Orders are not charged to your card until the order is ready for dispatch.
  If you are shopping from outside the UK your credit card company will convert the transaction to your own currency.

- By Bank Transfer in Pounds Sterling (all charges to your account). Our bank details :
  IBAN number : GB04 BARC 200450 90641383
  SwiftBIC : BARC GB22

- We accept Paypal for order value under £150. (Payments must be made from a confirmed Paypal email address).

We reserve the right to alter the Payment Methods without prior notice.

Returns Policy

If for any reason the goods do no meet your expectations, you may return them within 7 working days, unassembled and undamaged, quoting your invoice number, for a refund. You must arrange for and pay the cost of returning the goods to us.

If you return goods yourself, we advise you to adequately insure the goods during the return journey.
If you are unable to return the goods yourself, you must make them available for collection by us.
The cost of this collection will be deducted from your refund. All products are checked on return to our workshops.

After Sale Service

With over fifty years experience in model boat building, technical support is always available, by telephone Monday to Friday from 7am until 3pm, or by email to info@modelslipway.com.

Privacy Policy

We do not disclose any information you provide except where required by applicable laws, courts orders, or government regulations. Our website at www.modelslipway.com contains links to other websites. Please be aware that this Privacy Policy does not apply to those websites.

Copyright Restrictions

Commercial use or publication of all or any item displayed in our catalogue or website is strictly prohibited without prior authorization from Model Slipway.

Governing Law

Any dispute shall be subject to the exclusive jurisdiction of the Courts of England and Wales.
We reserve the right to change these Conditions of Sale at any time, without prior notice.

Model Slipway
77 Arundell Drive, Lundwood, Barnsley S71 5LE, United Kingdom
Workshops: Unit 8, Grange Lane Industrial Estate, Stairfoot, Barnsley S71 5AS

Telephone & Fax:
UK : 01226 770008 - International : 00 44 1226 770008
Email: info@modelslipway.com
www.modelslipway.com

VAT No. GB 590 8135 28

MODEL SLIPWAY - ORDER FORM

Orders may be placed

- By telephone or fax: UK 01226 770008 – International 00 44 1226 770008
- By mail to Model Slipway, 77 Arundell Drive, Lundwood, Barnsley S71 5LE, U.K

Qty	Description	Unit Price	Total Price
	UK. Carriage – Large Kits England, Wales, Scotland excl. Highlands & Islands = £10 The Highlands and Islands = £18 Northern Ireland and Isle of Man = £20 except for Vosper RTTL, FSB Tenby, Small Rescue Boat = £7.00 each Steam Drifter and 1920s Puffer = £3.50 each CLUB 500 as specified. **Carriage: Europe & Rest of the World**		
	Total		

- I enclose a cheque or postal orders in Pounds Sterling for the total amount payable to "Model Slipway"
- Please debit my card Visa / Mastercard / Switch / Delta / other

Card No.	Expiry Date:
Issue No. (if applicable)	Total Amount:
Valid from (if applicable)	Security code (last 3 digits only)
Name (Please print):	
Cardholder's Address:	
Post Code/Zip:	Country:
Telephone No:	Fax or E-mail:

Special delivery instructions

MODELLING TIPS
(Model Slipway Kits)

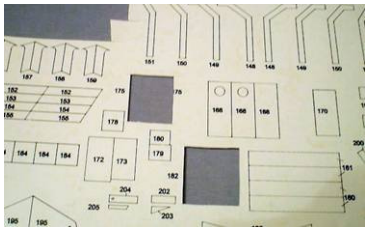
TOOLS

To build one of our models, the following is the minimum required: a sharp modelling knife (Stanley knife), scalpel and spare blades; a large cutting mat or hardboard sheet; a jigsaw or bandsaw; a steel rule or straight edge; a pair of spring calipers; small clamps or clothes pegs; a small vice; hand drill or small drill and bits (0.5mm to 10mm); mini-drill with a 25mm dia. tungsten cutting disk; a selection of files; a couple of small screwdrivers; miniature spanners; pliers and side cutters; tweezers; small artist's paint brushes with wood handles (for gluing); wet and dry sandpaper of various grades (100, 200 and 380) and a sanding block; elastic bands; masking tape; tape measure; a 30W soldering iron, solder and flux (if you wish to solder).

STYRENE PLASTIC

Styrene sheet or more commonly called plasticard is available in different thickness. The advantage of plastic over wood is that it has a smooth finish that requires no filling (other than on joints) to give a non-grainy finish. With many vessels in steel, wood with a grain does not look right. Plastic does not splinter and smooth holes can be drilled.

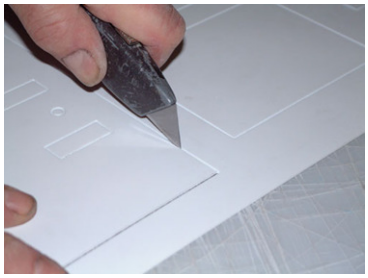
Before applying a primer or paint, it is always best to flat off a shiny surface. 800 - 1200 grit Wet or Dry works very well, especially if you wet it first and work with a gentle, circular motion.



Printed Plastic: Using a steel rule, lightly score the material with several strokes. Place your thumbnails either side of the score, and with your fingernails on the underside, raise this line up towards you. This will cause the plastic to fracture along the score line and then simply bend away from you and the part will snap out.

Complex shapes can easily be 'chased' along all pre-scored lines. Cut well outside the marked outline of a curved component, then file or sand back to the correct profile. If a raised ‘burr’ is left along the cut edge it can be removed by dragging a Stanley blade along that edge.

Die-cut Plastic: The die-cut parts are not fully cut through. Place your thumbnails either side of the score, and proceed as above. It is helpful to mark the numbers onto the pieces with a soft pencil, and then rub them out before painting.

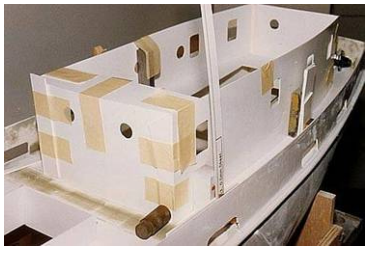


CNC-machined Plastic: The pieces are not fully cut through. Using a new blade in either a scalpel or Stanley knife follow against the cut edge of the part and remove the part from the sheet. If a raised ‘burr’ is left along the edge it can be removed by dragging a Stanley blade along that edge. It is helpful to mark the part numbers onto the pieces with a soft pencil.

Bending Plastic: Place the area to be bent in hot water and gently bend. Alternatively, place the area over the edge of the bench and run it back and forth. If you have to curve strips of plastic along their length, hold between finger and thumb at the centre, pull your hands apart bending down as you pull - this will curve the strip to a gentle radius.

Drilling Holes in Plastic: Styrene does not like heat and a power tool that runs fast generates heat. It is advisable to use a hand drill or a slow power drill.

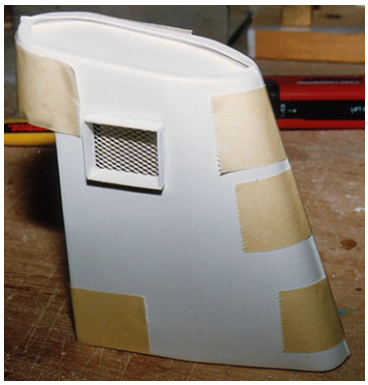
Assembling & Gluing Plastic: Assemblies of die-cut or printed parts (superstructure etc.) can be made easy if the parts are held together and built up using 4-5mm strips of masking tape. This will ensure close tight joints and most of all, allow you to stand back and check for accuracy before applying the glue.



The best type of glue is liquid polystyrene glue of which there are several brands available. This is applied either with a bottle cap brush supplied or a small paintbrush. Simply brush along the inside of the joint and the liquid glue will 'capillary' along a good fitting joint. Keep the glue away from taped areas. After a few minutes the tape is removed and the joint can be re-glued on the outside. A note of caution: avoid using excess adhesive - it works by dissolving the plastic and too much will create deformation. This glue will evaporate quickly if uncapped.

If a joint looks stepped or untidy, it can be fettled, sanded and scraped clean (with a Stanley blade) after a few hours when the glue has thoroughly dried. If done well the joint is almost invisible! Practice on scrap plastic in order to perfect your own technique. When gluing the deck to plastic deck supports, always rough the surface of the plastic to give it a key.

THERMO-FORMED PARTS (VACUUM FORMINGS)



Pencil in the trim line. Using a sharp modelling knife, score the plastic heavily around the trim line, and carefully snap away the waste material. Remove as much waste material with a knife or scissors as possible. Final trimming of edges is done by rubbing the component with a circular motion on, or with, a piece of medium-grade abrasive paper taped to a flat surface.

Before gluing vac-formed parts together, have a "dry run" using thin strips of masking tape to hold them together, this will allow you to make any necessary adjustments. Vac-formings do not require priming before painting if you use plastic enamel paints. Wash with a little detergent before painting.

MODEL STAND

It is important to have a firm base on which to construct the model; this will avoid any tendency to build a twist into the hull. Our kit assembly booklet shows a template for a stand made from plywood or MDF. If you intend to use this stand at the lakeside then it should be given two or three coats of clear polyurethane varnish. The top edges where the hull fits should be lined with strips of dense foam rubber, stuck on with contact adhesive. We have found that an old computer "mouse mat" with the fabric removed makes an excellent material for this job.

GLASSFIBRE (GRP) HULL

The hull is produced from a split mould and there may be a joint line in the centre of the moulding. Remove this line using a fine file and fine abrasive paper. The hull needs to be rubbed down with 380 wet or dry paper to matt the surface and provide a key for the paint. If a hull is slightly distorted due to being laid on its side for a long time or stood up on end, it is possible to bring it back to shape by warming it with a hair dryer.

Drilling holes in the wrong places in the glassfibre can be easily fixed. From the outside of the hull cover the hole with a piece of masking tape. Mix up and pour some gel-coat resin from inside, alternatively car body filler paste will do equally well. When set, remove tape and rub down flush with wet and dry abrasive paper. If necessary apply more filler. Reinforce the repair from the inside with a shallow ‘mound’ of filler.

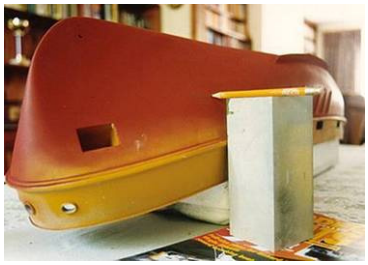
To cut out freeing ports or large openings in the glassfibre hull, proceed as follows: mark in pencil, then drill a series of holes along the slot and open up carefully with a small flat file. File from the outside inwards only and don't drag the file back out as this can chip the gel-coat.

Alternatively use an electric mini drill with a 25mm dia. Permagrit tungsten cutting disk. Hold the drill with both hands as it can tend to grab and jump.

If you need to remove glassfibre from inside corners use a Permagrit cone wheel, available from Permagrit Tools, UK. Do take appropriate precautions (i.e. gloves, eye protection, face mask) when cutting and sanding fibreglass.

INNER BULWARKS

The glassfibre of the inner bulwarks of some models require smoothing out to give a good finish. The way to do this is using elastic Plastic Padding and finger to spread the stuff around - but beware! some people may get an allergic reaction to the resin - in which case take the precaution of wearing surgical gloves. This filler needs to be thoroughly set, 2-3 days before sanding smooth using 80 grade production paper, then 320 grade wet and dry for the final finish.



WATERLINE

To determine the correct waterline, mark it off at the bow and stern, from the plans.

Sitting the hull on the stand, mount a pencil to a block of appropriate height and draw the waterline lightly by sliding the block round the hull.

GLAZING

Clear plastic material for cutting out the various panels required to glaze the wheelhouse and portlights can be cut exactly like plastic styrene although it is much more resistant to scratches. Glue in place with Weldbond, RC Modeller's Craft Glue or clear contact adhesive (UHU, Bostik etc.) after painting the model. The glue used by aircraft modellers to attach the clear canopies to the fuselage will do the job. It comes under several brand names. It is a PVA type glue which goes on white but dries clear.

Note, the glazing sheet has a protective film on each side; remove only from one side for gluing, them remove film from the other side when finished.

WHITE METAL FITTINGS

The majority of the fittings are white metal. Due to the manufacturing process these will require a little cleaning up. Clean up any flash, or mould lines, using fine files or fine sandpaper. Surfaces, which are to be flat should either be filed or rubbed across a sheet of Wet and Dry paper glued to a surface (use a contact adhesive). Apply a coat of primer or matt white paint before final painting.

Spraying and painting small fittings like railings and vents can be a bit of a trial. Drill a piece of flat wood at intervals to take the parts, then cover in double-sided sticky tape; push the parts into place to be held firm by both tape and hole. You can then spray away to your hearts content and they will stay put.

PHOTO ETCHED BRASS

Use a sharp modelling knife/wire cutter/scalpel to separate the components ensuring this is done on a firm surface. Snip through the tags and clean up the tag scars by holding the part in pliers and using a fine file or sandpaper (P400 or even finer). If a part has to be folded, support up to the line of fold and fold in one go, holding the part in pliers and using the blade of a screwdriver to fold. For assembly use thick Superglue, UHU, Araldite on a grease free surface. Brass is ideal for soldering. Apply a coat of primer or matt white paint before the final paint.

MODEL NAME and FLAGS

Waterslide Transfers: locate the position of the transfer on the model and apply it only to a gloss finish (either paint or gloss varnish a patch). Soak each transfer in tepid water for about 30 seconds until the backing paper starts to get saturated - do not allow it to float off. Wet the area where the transfer is to go, slide it into place and dab down flat and dry with a soft cloth. When thoroughly dry, paint over with clear satin varnish.
Vinyl lettering and model flags are available from BECC at www.modelflags.com or from model shops in the UK.

PAINTS

Our colour schemes show the Humbrol enamels reference numbers. However, the paints used on our prototype models were acrylic aerosols available from car accessories shops (e.g. Halfords in the UK) for the large assemblies and Humbrol or Tamiya enamels for the smaller areas and details. Any good "red oxide" aerosol primer is ideal for spraying the hull below the waterline. The one golden rule is not to paint cellulose over enamel paints as this will leave the surface crazed.

FILLERS

For fibreglass: holes and gaps can be filled using a 'soft' paste car-body filler available from car accessory shops or DIY stores. When the filler has hardened, sand flat with fine wet or dry paper.

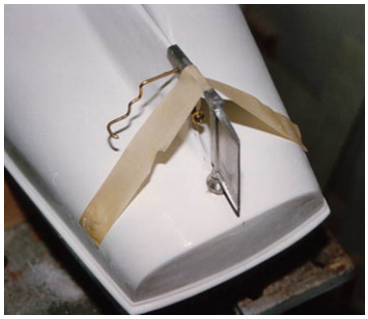
For plastic: again use a 'soft' paste car body filler, or, Humbrol plastic filler available in model shops. Alternatively make your own filler by adding styrene shavings to any suitable solvent such as acetone in a small glass jar, screw the lid on tightly to keep the solvent from evaporating and leave overnight. The plastic will dissolve and form putty. You can then use it as a paste to fill any gaps etc. If the paste is too thick, add more solvent - If it's too thin add more plastic.

ADHESIVES

Adhesives may be in tube form (polystyrene cement) or in liquid form such as Humbrol Liquid Poly or MEK (methyl ethyl ketone) which is best applied with a brush. The technique is to apply a few drops of the solvent and the glue will run down the joint by capillary attraction. The following glues are recommended:

Fibreglass to plastic:	two-part epoxy (Devcon, Araldite, Speed Epoxy) - 10 min. or 1 hour.
Plastic to plastic:	ordinary plastic solvent (Revel, Liquid Poly, Slaters, MEK).
Whitemetal to whitemetal:	two-part epoxy (5min.) or thick superglue (Pro-Bond, MFA etc.)
Whitemetal to plastic:	two-part epoxy or thick superglue.
Wood to plastic:	two-part epoxy, thick superglue or contact adhesive.
Brass to plastic:	R/C Modellers craft glue or thick superglue.
Rubber Fendering:	contact adhesive (UHU, Bostik).
Window glazing:	Weldbond, RC Modeller's Craft Glue or clear contact adhesive (UHU, Bostik etc.) NO SUPERGLUE as this will "frost" the glazing.

PROPSHAFT



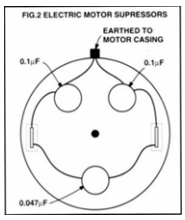
To install the propeller shaft and tube, drill a hole into the hull using a drill smaller than the tube diameter, and then open it up with a round file. Before fixing the prop shaft/tube to the hull, using emery paper lightly abrade around the gluing area in order to provide a good key. Use masking tape to hold assemblies in place and to allow final adjustment. Apply a small amount of epoxy to hold in place. When set and you are happy with the alignment apply more epoxy over the joint inside and outside the hull. When dry, sand with medium grade sandpaper.

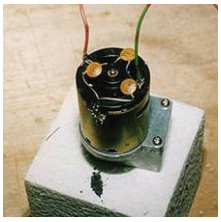
Applying grease into the propshaft tube or "stuffing box" is not always the best idea. A tube packed with grease can create a lot of drag on the rotating shaft, which can slow the motor and cause poor performance and overheating. It is recommended to apply light machine oil to the bearing ends.

MOTORS & MOUNTS

There is such a variation in motor performance that, generally, it is best to follow the kit manufacturers' recommendations. To remove the motor in seconds, a simple motor mounting can be made using triangular blocks of wood and rubber bands. Proceed as follows: fit the motor to the coupling and shaft, hold the motor to roughly the correct position to assess the size of the blocks. Cut blocks to suit your application. Pre-drill and fix hooks or large head screws. Apply epoxy glue to the underside of blocks and place either side of the motor. While the glue is wet the blocks can be pushed inward to raise and align the assembly. An alternative method of installation is to screw or bolt the motor to a block or blocks glued to the hull

MOTOR SUPPRESSION





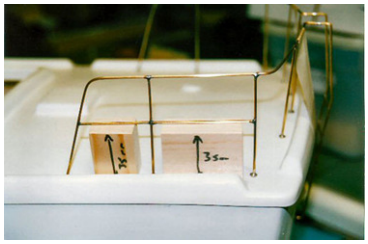
HANDRAILS STANCHIONS

Shaping and Soldering:

- Abrade/clean the entire length of wire with fine emery.
- Apply flux to the entire length of wire and tin the entire length.
- In general handrails follow exactly the stanchion holes therefore drill the holes in the deck first then lay the wire over the holes and shape it using pliers (allow extra length for corners etc).
  If you need to duplicate railing, i.e. two, three or four rails, simply tape another wire to the “pilot” rail and use it as a master.
- Cut all (tinned) uprights overlong and place them into the pre-drilled holes in the deck.
- Hold the top rail onto any upright - usually an end one is easier - and solder them together. Use a clip to dissipate the heat away from the plastic.
- Now on to the next upright and solder that one to the top rail, and so on. You do not have to worry about getting them even spaced, upright or even tidy; just make up a one-piece entity, which will stay together. This will probably look a mess but do not worry.
- Go back to the first rail joint, de-solder it and re-align it. This will now be easy as the rest of the assembly is rigid and holds itself together. Use engineer's squares to get the uprights at the same angles.
- Proceed with the remaining uprights, de-soldering and re-aligning them.

If short lengths of wire have to be soldered between the uprights:

- Hold the cross piece with tweezers and solder one end in approximate position.
- The second end can be soldered in the correct place as the first end is already fixed.
- Now go back and re-solder the first end into position.



To get all the cross pieces to the same height it is advisable to use a wood block as a spacer.

Always place a clip lower down near the plastic deck to dissipate the heat away from it, as you do not want it melting and making the hole in the deck bigger.

When the handrail assembly is complete, carefully lift it up from the deck and clean with thinner beforing painting.

When the model is nearing completion replace the handrail assembly in the original mounting holes in the deck. A drop of superglue can be applied to the base of the uprights.

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2008 MODEL SHOWS

We should be exhibiting at the following events during 2008. This list will be updated as events are confirmed.

March TBA	March Modellers at Ellesmere, the EPIC Leisure Centre, McGarva Way, Ellesmere Port, Cheshire CH65 9HH
June 28-29	Northern Model Show, South Yorkshire Aircraft Museum, Doncaster DN4 5EP.
August TBA	Ellesmere Port Model boat Show, the EPIC Leisure Centre, McGarva Way, Ellesmere Port, Cheshire CH65 9HH
October TBA	Blackpool Model Boat Show, Norbreck Castle Hotel, Queens Promenade, Blackpool FY2 9AA
November TBA	The International Model Boat Show, Warwickshire Exhibition Centre, Fosse Way, Leamington Spa CV31 1XN