

# Type 22 Frigate (Batch 2) H.M.S. Brave 1/350 Scale

HMS Brave was the first of the four later Batch 2 ships with the higher height hangar and larger flight deck of the later Batch 3 Type 22, meaning that she could then operate the larger Sea King as well as Lynx helicopters.

She was laid down on 24th May 1982 at Yarrow Shipbuilders on the Clyde and launched 19th November 1983, HMS Brave was commissioned into the Royal Navy on4th July 1986 She spent the first part of her career undergoing trials as normally happens with first of class ships, and it wasn't until later in 1987 that she undertook her operational sea training at Portland after which she became the leader of the 9th Frigate Squadron.

HMS Brave saw service in the North Atlantic and around Europe, visiting various ports and becoming affiliated to several institutions. In 1991 she was sent to the Gulf region to act as flagship for Flag Officer Middle East during the 1st Gulf War. Some of her tasks included providing missile defence for US Aircraft Carriers and Battleships as well as mine watching and sonar tasks. For the period up until she was decommissioned HMS Brave spent most of he time patrolling around UK waters. She finally was withdrawn from service on 29th March 1999 and expended as a target for the submarine HMS Sceptre and the Frigate HMS Argyll.

#### Specifications

Length 486.75ft (148.1m) Beam 49ft (14.8m) Displacement 5,300 tonnes Speed 18kts Cruise 30 kts Max Complement 250 Officers and Men Propulsion 2 x Rolls Royce Spey SM1A boost gas turbines 2 x Rolls Royce Tyne RM1C cruise gas turbines

Armament

4 x Exocet SSM Launchers 2 x 6 GWS 25 Sea Wolf SAM Launchers 2 x 30mm Twin AA Guns 2 x Triple Anti Submarine Torpedo Tubes 2 x Lynx Mk8 Helicopters or 1 Sea King HAS 5 Helicopter





# **General Precautions**

When assembling a Resin / Photoetched metal kit, certain precautions must first be taken.

1. Resin dust can be harmful if inhaled. It is recommended that you wear a suitable dust mask when drilling or sanding resin parts.

2. Cyano adhesives (super glues ) are generally used to assemble this type of kit. Care must be taken when using this type of adhesive as it will bond in seconds. Follow the advice on the container.

3.Wash resin parts in a solution of warm soapy water before assembly. This will remove any residual mold release agents and ensure a good key for 4. Soak photoetch parts in a suitable solvent, such as white spirit, to degrease the surfaces prior to painting.







#### Fore Mast Assembly



Fit the Rear Quarter Yardarms, etched parts 93, to the undersides of the rectangular platform so that the inner ends contact the mast on the corners. Shape and fit the stays, etched parts 94 in a similar manner to those on front and rear yardarms, except that the rear feet of the stays meet in the middle of the rear edge of the upper platform. The forward feet of the stays, fit to the side edges of the upper platform. Fit the side yardarms, etched parts 89, to the underside of the rectangular platform. The side of the fore mast. Shape and fit the stays, etched parts 90, so that the oval loop antenna is flat on the top of the outer end of the yardarm. Fit the feet of the stays to the sides of the fore mast. If has been found that it is easier to assemble the yardarms to the mast, before fixing the mast into position on the ships structure.

the ships structure.

# Starboard Boat Location and Funnel Fittings



Fit the Wire Antenna Spreader, etched part 29, centrally to the top of the funnel, forward of the large exhaust uptakes. This mounts the wire antennas leading up to the Fore Mast yardarms. 29 (64) 64 <u>XIXI</u> XX 田田 18

Fit the small Wire Antenna Spreaders, etched parts 64, to the aft sides of the funnel, as shown folding the support stays inwards and downwards, with the long leg to the rear. Attach the antenna wires to the hooks on top of the horizontal bar then fold these to the rear and lead the wires up to the main mast lower yardarms.

Fit the boat davit assemblies to the starboard side of the funnel housing as shown above, with the feet up to the edge of the main deck. The railing section should pass inboard of the davit legs. Fit the Cheverton Motor Boat, resin part 18, to the davit falls by drilling a 0.4mm hole right through the boat at the locations shown above, then feeding the falls through the holes. Bend the falls back vertical, taking the boat into the davits, and secure into place at the bottom.



Fold the sides of the fuel can rack round to 90° so that they are parallel, then fold the top and front panels down in stages of 90° so that they form a box construction rack. These racks are meant to contain the Jerry cans of fuel required by the ships boats. They are usually positioned on the edges of thecatwalk to the starboard side of the hangar just aft of the ladder access opening. They have a quick overboard release capability due to the flammable contents and are usually painted red.





MAR

31

(59



### Westland Sea King HAS5 HelicopterAssembly



## **Other Instructions**

- Etched parts 100 are stock lengths of Anchor chain that can be used to fit on the focsle from the two Anchor Hawse Pipe holes, aft around the Capstans and forward to
  the shrouded deck ports that go down the cable lockers. There is also sufficient Anchor Chain to allow for a ship to be portrayed in a diorama, sitting at anchor with
  the chain running from the Hawse Pipe hole to the surface of the waterscape.
- 2. Some parts in the photo etched set have been included for other kits and are not required for the HMS Brave. These are fairly obvious from the listing at the front of these instructions, but they may be useful if any conversion work to build any other ship of the Batch 2 class is being done.
- 3. Please read through these instruction thoroughly before commencing any assembly work, as there may be relevant sections further along that may require attention before completing and earlier procedure.
- 4. Prepare your model before assembly by washing all resin parts in warm soapy water and left to dry completely. There may be some resin or metal "Flash" on the edges of some that must be cleaned of, usually with a quick brush of with fine wet or dry paper. Any mould pouring lugs and ejector pin stubs must be removed from mating faces before assembly commences to ensure a snug fit.
- 5. The decals provided in this kit are of the water slide type. Please do not try and peel them off the backing paper, as they will not. Cut out each decal and soak in luke warm water until it releases from the backing paper. The decal can then be slid into position on the model, carefully adjust the position as necessary with an artists brush. The decals are best applied to a glossy surface as this will prevent any silvering where air is trapped under the decal applied to a mat surface. Varnish the areas where the decals are to be applied with gloss varnish and allow to dry thoroughly before applying the decals. Humbrol Gloss Coat is ideal for the job as it is clear and doesn't go yellow with time. The entire areas may then be sprayed over with Matt Coat once the decals have set into position.

