

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

HMS Boxer was the first of only two Batch 2 ships with the low height hangar and standard flight deck of the Batch 1 Type 22, (the other being HMS Beaver) meaning that she could only operate Lynx helicopters.

She was laid down on 1st November 1979 at Yarrow Shipbuilders on the Clyde and launched 17th June 1981, *HMS Boxer* was commissioned into the Royal Navy on 22nd December 1983. She spent the first part of her career undergoing trials as normally happens with first of class ships, but later on saw service all over the world including a period in the Adriatic during the collapse of Yugoslavia and the subsequent hostilities between the emerging nations.

HMS Boxer saw considerable service on the Armilla Patrol in the Persian Gulf during the 1980s and had an extra tour thrust on her when she had to replace HMS Southampton at short notice after the Southampton was in collision with a bulk carrier and had to be sea lifted home for repairs. Boxer was at the fore in developing the convoy chains of ships after the Iranians harassed individual ships transiting the Straits of Hornuz, a technique that provided the ships with a measure of protection. HMS Boxer also saw service in the Persian Gulf, during the first Gulf War when Iraq invaded Kuwait, but was generally deployed with various task groups on good will missions and flag waving

for the most of her time.

She did however set a standard, when coming out of refit in 1990, achieved a speed in excess of 34 knots (39 mph) (63 km/ph). From 1996 to 1997 she became the leader of the first Frigate Squadron, but because of the small hangar and flight deck, Boxer was limited in the roles she could fulfill, and so was finally decomissioned in 1999 and expensed as a target later in 2004. Specifications

Length 481ft (146.5m) Beam 49ft (14.8m) Displacement 4.800 tonnes Speed 18kts Cruise 30 kts Max Complement 273 Officers and Men Propulsion 2 x Rolls Royce Olympus TM3B 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 40mm Bofors AA Guns 2 x 20mm Oerlikon Cannon 2 x Triple Anti Submarine Torpedo Tubes

2 x Lynx Mk3 Helicopters





Railings (Flight Deck Stbd Fwd)	20.	Railings (Hangar Roof Sides)	39.	Yardarm Stays (Fore Mast Front)	58.	Sword and Shield Antenna	77.	Fore Mast Sensors Upper	96. Boat Davit Upper
Railings (Flight Deck Fwd)	21.	Railings (Fore Mast Top Platform)	6	Yardarms (Fore Mast Aft Quarters	59.	Yardarm Stays (Main Mast Lower)	78.	Fore Mast Sensors Mid	97. Exocet B ox Centre Screens
Railings (1006 Nav Radar Platform)	22.	Railings (Hangar Roof Aft)	41.	Yardarm Stays (Fore Mast Aft Quarters)	<u> </u>	Yardarms (Main Mast Lower)	79.	Fore Mast Sensors Lower	 Inclined Ladders
Railings (Fo'c'sle Step)	23.	Railings (Main Deck Aft) BW	. 7	Yardarms (Fore Mast Fwd Quarters)	61.	Chaff Launcher Flares	80.	Hangar Roof Stbd Antenna	99. 20mm GAMBO Assembly
Railings (Quarterdeck Port) BW	5	Railings (Chaff Launcher)	43.	Yardarm Stays(Fore Mast Fwd Quarters	B	Yardarms (Main Mast Upper) XB	81.	Hangar Roof Port Antenna	100. Exocet Box Outer Screens
Railings (Quarterdeck Stbd) BW	52.	Railings (910 Deck Aft)	4	Yardarms (Fore Mast Sides)	83.	Anchor Chain	8	Topedo Tube Control Boxes	101. Fuel Canister Stowages
Railings (Quarterdeck Port) XB	26.	Handrails Bridge Bulwark Sides	45.	Yardarm Stays (Foremast Sides)	2;	910 Director Platform Assembly	83.	Boat Davit Bases	102. RHIB Cradles
Railings (Quarterdeck Stbd) XB	27.	Handrails Bridge Bulwark Front	4 6	Yardarms (Funnel Wire Spreaders)	65.	Towed Array Winch Frame XB	2;	Flight Deck Floodlights (Stbd)	103. Access Hatch
Railings (SCOT House Deck Aft)	<u>78</u>	Accommodation Ladder (Stowed)	47.	Ships Name Plates	99	Deck Hatch	85.	Flight Deck Floodlights (Port)	104. RHIB Parts
Railings (Main Deck Fwd) XB	<u> 2</u> 9.	967/968 Radar Platform	4 8	Helicopetr Glidepath Lamp	67.	Flight Deck Hold Down Grid	86.	Small Funnel Wire Spreader	105. Signal Lamps (Large)
Railings (Main Deck Aft) XB	30.	F Deck Safety Nets Infills	49.	Propeller Guards	88	182 Decoy Crane Jib	87.	Bridge Roof DF Antenna XB	106. Dan Bouys
Railings (SCOT House Deck)	31.	F Deck Safety Nets Sides	50.	182 Decoy Stowage Rack	69	Sea Wolf Missile	<u> </u>	Small Boat Cran Jibs	107. Life Raft Canister Racks
Railings (Main Deck Fwd) BW	32.	F Deck Safety Nets (Stern) BW	51.	Main Mast Top Antenna Array XB	.0 <u>7</u>	Main Mast Gaff	89.	Main Mast Front Wire Terminal	108 Verticla Ladder Stock
Railings (Signal Deck) BW	33.	F Deck Safety Nets (Stern) XB	52.	Main Mast Top DF Antenna BW	71.	Approach Light Bar	<u>6</u>	Wire Antenna Spreader (Aft)	109. Lynx Helicopter Rotors (Folded)
Railings (Ops Room Roof) XB	£	F Deck Safety Nets Port Aft	53.	Yardarm Stays (Main Mast Mid Lower)	<u>7</u>	Life Rings	91.	Hangar Roller Doors	110. Lynx Helicopter Tail Plane
Railings (SCOT Platforms)	35)	Decoy Crane Cut Out BW	¥.	Yardarms (Main Mast Lower) XB	73.	Life Ring Ejectors	<u> </u>	Bridge Lookout Sights	111. Lynx Helicopter Blade Fold Poles
Railings (Fo'c'sle)	36)	55 56 55 55	55.	RHIB Crane Jib XB	74.	RAS Cranes Forward	93.	Bridge Roof DF Antenna BW	112. Lynx Helicopter Tail Fold Joint
Railings (Signal Deck) XB	37.	FDeck Safety Net (Port Fwd) BW	56.	Yardarms (Main Mast Upper) BW	75.	RAS Cranes Aft	4	Torpedo Loading Davits	113. Lynx Helicopter Tail Rotor
Railings (Ops Room Roof) BW	38.	Yardarm (Fore Mast Front)	57.	Yardarm Stays (Main Mast Upper)	76.	Signal Lamps	95.	Intake House Platforms	114. Lynx Helicopter Blade Aerials
									112. Lynx Helicopter Main Kotor

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.





Fold the crane jib, etched part 88, over in 90° steps so that the sides are parallel. Fold the rear parts of the jib so that the smaller side panels are angled allowing the vertical pillars to become parallel with each other. Fold the pedestal sections of the lookout binoculars in half so that they are double thickness. Then fold the binocular on each side outwards as shown above. Secure into place. These are located on the port and starboard bridge wings

This is fitted to the main deck just forward of the hangar on the starboard side, aft of the torpedo tubes

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Fore Mast Assembly



Fit the small Wire Antenna Spreaders, etched parts 46, 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 rous une suces or une ruet 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.

Fold the Towed Array cable drum support frame, etched part 65, around in steps of 90°, locating the spigots on the ends of the drum into the holes as shown above. Secure the outer ends of the frame together, and fit to the quarterdeck as shown later.

102 Assemble one RHIB as shown above, then fold the cradles, etched parts 102, in half so that they are double thickness with the relief detail outermost. Fit the RHIB into the cradles then fit to the main deck between the main mast and the hangar.

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Flight Deck, Quarterdeck and Hangar Railings Assembly

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Fit the small boat crane assembly to the aft locating holes on the starboard side of

Fit the small boat crane assembly to the aft locating holes on the starboard side of the main deck. A Gemini Inflatable boat may be placed on the deck adjacent to this cranes if desired. Fold the Torpedo Loading Davits, etched parts 94, in half so that they are double thickness with the relief etched detail outermost. Fit to the tops of the pintles at the rear of the STWS Torpedo tubes as shown right. Fit the fuel can stowage racks directly aft of the access ladder hole on the deck edges starboard side. Continue aft by fitting more life raft canisters then finish of by fitting the remaining railing section, etched part 2 to the aft deck edge so that it comes against the floodlight bracket

Westland Lynx HAS3 HelicopterAssembly

Other Instructions

- 1. Etched parts 63 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 Boxer. 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 1 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.

