

1/48 scale Bell 412 HR.2 Griffon 84 Sqn. RAF Akrotiri Update Set Set # WBA48009

Introduction

After having served in Aden, the squadron was reformed in Cyprus on 17 January 1972 from 1563 Flt and a detachment from 230 Sqn. with Westland Whirlwind HAR.10s at RAF Akrotiri. The squadron was also based at Nicosia International Airport to aid UNFICYP operations and operate search and rescue. It later (December 1981) replaced the Whirlwind with the Westland Wessex HC.2 and later still (June 1984) with the Westland Wessex HU.5C. It was the last squadron to use the Westland Wessex.

No. 84 Squadron was the first RAF contingent into Beirut in the Lebanese Crisis of 1983. This resulted in the evacuation of the peace-keeping element from the city.

Since January 2003 the squadron has been assigned to British Forces Cyprus at RAF Akrotiri in the search and rescue role using the Bell Griffin HAR.2. The helicopters are leased from and maintained by a civilian company. 84 Squadron aircraft are also used for UN duties in maintaining the buffer zone separating Cypriot and Turkish forces. In recognition of this role the aircraft are always unarmed and carry a light blue band around their tail, matching the blue berets of UN peacekeepers. These aircraft are the subject of this Detail Set.

84 Squadron is the only serving squadron never to have been based in the United Kingdom.

What you get - resin parts:

replacement cabin doors flotation gear + mountings FastFin tail unit replacement exhaust - extended pipes winch, winch pylon and connecting block Decca box SARBE mount air vents for above nose cargo hook well 2 x IR detectors for tail boom 3 x whip aerial mounts 3 x under fuselage lamps 2 x domes - alongside engine housing upper position light lower position light small port cabin door with dinghy pack large landing light - under fuselage rounded avionics housing blade aerial - cockpit roof position light - starboard cabin roof IR floodlight spotlight on cabin roof aft of air intake spotlights on tail boom Small round dome on centre line Light unit at junction of fuselage and tail boom nose radome 2 x cockpit seats parts to convert a AB212 to a 412 (see later)

Preparation: general instructions

Remove resin parts carefully from the moulding blocks to which they are attached using a scalpel or razor saw.. Sand lightly to remove any roughness and tidy up any mould lines - remember that resin dust can be harmful; we therefore suggest that you use a mask when sanding, and sand wet rather than dry.

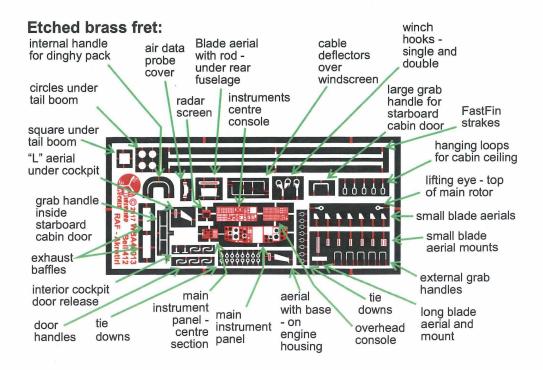
Note that some masters have been produced using 3-D printing, and the parts therefore have an extensive support framework which must be removed with great care to avoid damage.

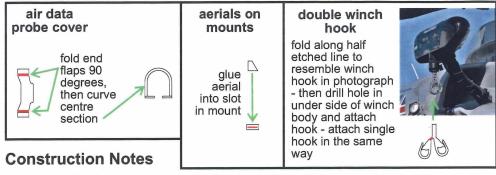
Resin and etched brass items can be attached with cyanoacrylate adhesive.





custom decals for the discerning modeller





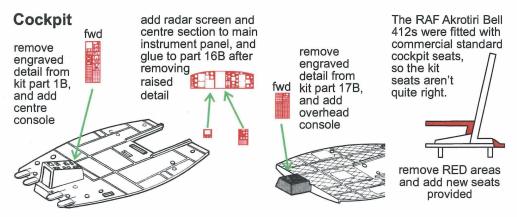
This Update Set is designed for the 1/48 Italeri Bell 212 kit.

The kit has been released in several different versions - any will do. Make the kit using the kit instructions, except as detailed here. (see later for conversion from Bell 212 to Bell 412)

- Remove from underside of fuselage and smooth light fitting under nose and mounting for cargo hook.
- Make hole in underside where cargo hook mount was (6mm).
- Remove position light on cabin roof (stbd) and replace with resin part provided as indicated (port side remains as in kit)
- NB: Different configurations of front section of cabin door -Seems to depend on whether flotation gear is fitted or not e.g. ZJ703 - 4 Jul 2009 no flotation gear - stbd front section RED ORANGE with window - 16 Nov 2010 with flotation gear stbd front section GREY with no window

whip aerial on mount on engine housing

remove aerial mount from drill casting block, and drill a hole in the top to receive the aerial (thin brass wire provided)



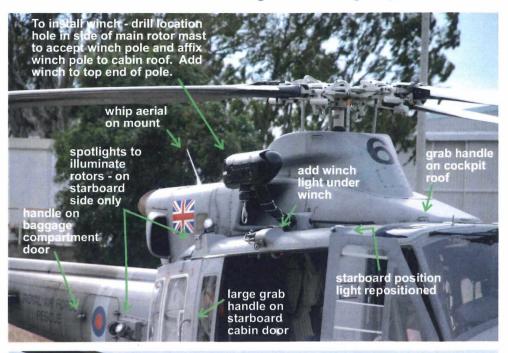
Use the other cockpit and cabin parts as supplied in the Italeri, Astrokit or Revell kit.

Because the 84 Sqn. Bell 412s carried a lot of extra fitments and equipment in the cabin, **WHIRLYBIRD** have produced a Detail Set for the cabin (**WHIRLYBIRD** part no. WBA48013 - Bell 412 HR.2 Griffon - Interior set) which provides some of the items such as crew seats, fire extinguishers, a new starboard cabin bulkhead etc. which would be difficult to scratch build. This is available from **WHIRLYBIRD** direct, or from **WHIRLYBIRD** stockists.

Airframe - starboard side, starting from nose going aft



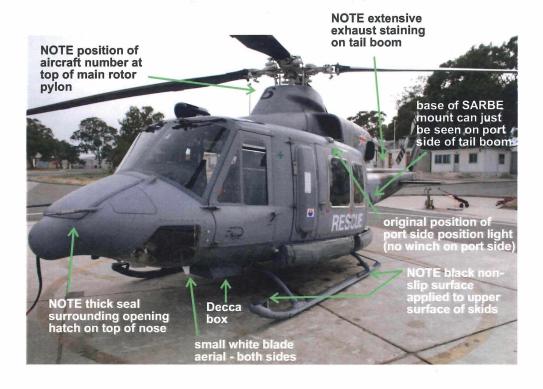
Airframe - starboard side, starting from nose going aft continued

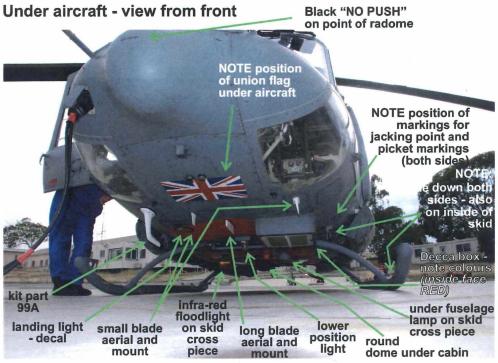




Airframe - port side, starting from nose going aft

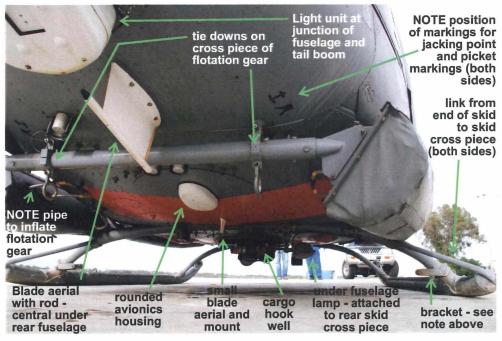






Under aircraft - view from rear

NOTE about the brackets below - these allow ground movement wheels to be attached - they are not provided



Flotation gear

diagram shows flotation gear being fitted to a Bell 212 the 412 is similar.

usually dark grey almost black

attach flotation

gear to both sides of fuselage below cabin doors as shown



rear support fits under rear fuselage

taken in the workshop, this photograph shows the "humps and bumps" on the cockpit roof - also position and colour of non-slip walk way

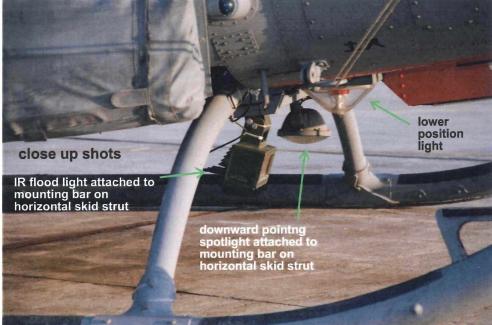


these 2 photographs give a glimpse of the interior of the cabin, with all the rescue and survival equipment and crew seats etc.

WHIRLYBIRD produce a Cabin Detail set which provides many of the items which would be hard to scratch build to detail the cabin. Set WBA48013 Bell 412 HR.2 Griffon - Interior set

Some more detail shots





Grateful thanks to Nick Turner, who provided all the photographs and has generously allowed us to reproduce them here. All photographs copyright Nick Turner ©

Conversion to Bell 412

What you get

4 bladed main rotor head

4 x resin main rotor blades

5 x main rotor pitch control levers (4 needed - one spare - very fragile!) main rotor pitch control "spider" main rotor shaft main rotor mast fairing rotor balance weights

4 x left hand side

4 x right hand side

Finish fuselage assembly add roof (part 30B), and make up the engine housing sub assembly (parts 35B, 36B, 37B, 38B) and 39B). Use engine covers parts 42B and 44B, and add extended exhausts (resin part supplied).

Attach this in place on completed fuselage, and then add the new Bell 412 front fairing and main rotor mast. The top of the main rotor stationary swash plate just fits inside the hole in the new fairing.

Assembly Instructions

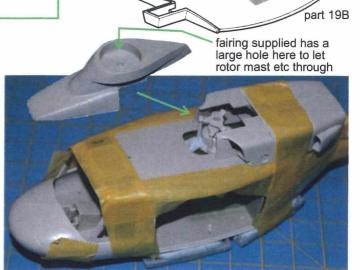
Follow kit assembly sequence for cockpit and cabin.

Assemble parts 20A, 21A and 22A, but do not add main rotor mast (part 23B). Then add this sub-assembly to cabin roof (part 19B) before completing cabin.



part 20A

part 22A

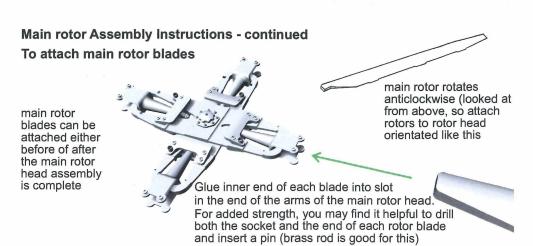


Main rotor Assembly Instructions



Thread main rotor shaft through hole in upper swash plate. If preferred, it can be glued in position - we suggest trying it all first before deciding which way is easier





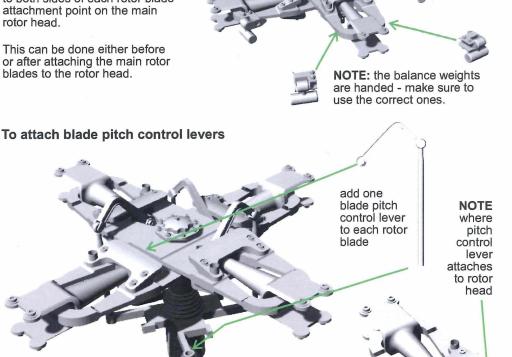
To attach main rotor balance weights

Add main rotor balance weights to both sides of each rotor blade attachment point on the main rotor head.

This can be done either before or after attaching the main rotor blades to the rotor head.

5 pitch control levers are supplied, but only 4 are needed. A spare is included in case of mishaps - they are

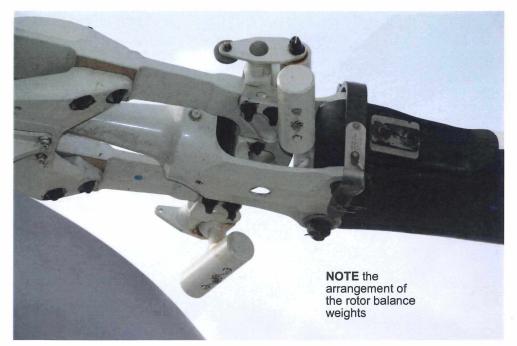
very fragile!



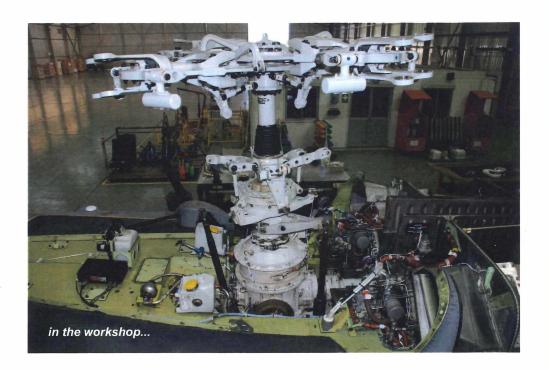


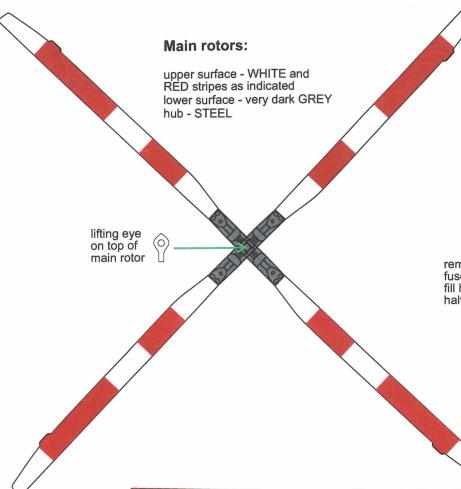
NOTE the arrangement of the rotor blade pitch control levers, and how they attach to the swash plate and the rotor head.





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Preparation - before fuselage assembly:



remove from both fuselage halves, and fill hole when fuselage halves are joined

remove surface detail, and make a hole 6mm in diameter in this position to receive new cargo hook well

NOTE:

use kit part no. 52A (section of tail boom with hatch for baggage compartment) rather than part 53B.

Tail Rotor colours:

WHITE with 3 BLACK bands Steel hub & leading edge to blades

As far as I am aware, only ZJ705 "Hearts" carried cable cutters - use Italeri parts 41A and 54A as shown in the Italeri instruction sheet.

Flotation gear was installed when the aircraft might possibly have to operate over water - such as in their Search and Rescue role in Cyprus. However, it could be removed quite easily.



the 2 strakes on the tail boom are a part of the FastFin system - they disrupt the air flow over the tail boom and make the tail rotor more effective

To install the FastFin tail unit

First remove the existing tail from each

fuselage half along the panel line just forward of the tail rotor pylon

Then continue to assemble the fuselage in the normal way. Using super glue, attach the new FastFin tail, ensuring that the main rotor

cut along

line

dotted red

pylon is vertical.

add the etched

brass strakes to

the tail boom at

the angles and in

the positions shown -drill holes

in tail boom to

accept locating

tabs on etched brass strakes.

Only ZJ705 "Hearts" had

a FastFin tail unit. The

other 84 San. Bell 412s

were as illustrated earlier.

84 Sqn. aircraft: (traditionally, 84 Sqn. aircraft have carried playing card symbols on their tails)

ZJ703 - Spades



ZJ704 - Clubs



ZJ705 - Hearts



ZJ706 - Diamonds



