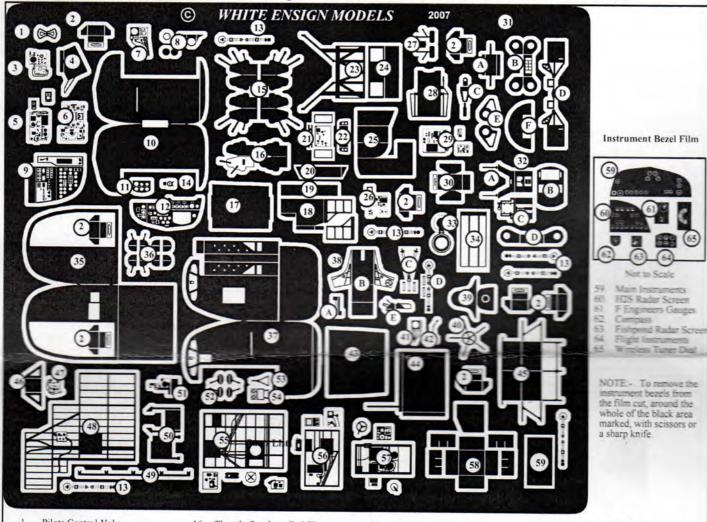


Handley Page Halifax BI/II/III

Photo Etched Parts for detailing the Interior of the Airfix or Revell kits in 1/72 Scale



- Pilots Control Yoke
- Parachute Stowages
- Gee Mk2 Equipment Facia Gee Mk2 Mounting Shelf
- Navigators Panel Facia
- Wireless Equipment Facia H2S Radar Box Facia
- Main Compass Assembly
- Flight engineers Panel Cockpit Front Bulkhead
- Pilots Flight Instruments
- Main Instrument Panel
- Lap Straps
- Direction Indicator Dial
- Throttle Quadrant Assembly

- Throttle Quadrant End Plates
- Pilots Cockpit Floor
- WOs Table Assembly
- Equipment Shelves Overhead Shelf 19
- 20.
- Bombing Computer Box Computer Box Mountings
- 23. Main Spar Framework
- 24 Main Spar Step Cockpit Stair Assembly
- Bomb Aimers Left Panel
- Bomb Aimers Arm Rests
- 28 Bomb Aimers Couch Bomb Release Panel
- Sextant Case

- Mid Upper Turret Interior
- Rear Turret Interior
- 33 Elsan Toilet Seat
- Elsan Tiolet Drum
- 35 Cockpit Rear Bulkhead
- 36 Flight Engineers Fuel Cock Cockpit Middle Bulkhead
- 38 Pilots Seat Assembly
- WOs Seat 39
- 40 WOs Seat Base
- 41 Fishpond Display Facia
- 42 Navigators Anglepois Lamp WO Compartment Floor
- 43
- 44 Navigators Table
  - Navigators Seat Assembly

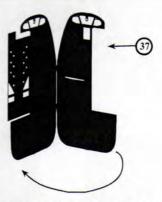
- Gee Receiver Shelf
- 47 Gee Receiver Box Facia
- Cockpit Starboard Sidewall Frame
- Cockpit Stairs Handrail Flight Engineers Seat Assembly
- 51,
- Bomb Sight Pilots Fuel Cocks
- 53. DF Antenna Control Box Stav
- DF Antenna Control Box Facia
- Flight Engineers Sidewall Frame Pilots Cockpit Sidewall Frame
- 57 WOs Compartment Sidewall Frame
- Oxygen Bottle Crate Assembly Elsan Toilet Floor Panel

# **Photo Etched Parts General Instructions**

- Do not remove the etched parts from the fret until you are ready to use them. Before assembly, soak the etched parts in a suitable solvent, such as white spirit, to de-grease the surfaces for painting.
- Cyanoacrylate adhesive (Super glue) or contact adhesive such as Elmers white glue may be used. These can be applied with a pin or piece of stretched sprue. When removing parts from the fret, place the fret on a hard surface, such as a smooth ceramic tile, in order to prevent parts bending whilst cutting through the when shaping or bending a part, a straight edged blade such as a chisel blade #17 or #18 will give a good sharp corner, or alternatively a small pair of smooth invested blace when the super smooth shaping or bending a part, a straight edged blade such as a chisel blade #17 or #18 will give a good sharp corner, or alternatively a small pair of smooth invested blace when the super smooth shaping or bending a part, a straight edged blade such as a chisel blade #17 or #18 will give a good sharp corner, or alternatively a small pair of smooth invested blace when the super smooth shaping or bending a part, a straight edged blade such as a chisel blade #17 or #18 will give a good sharp corner, or alternatively a small pair of smooth invested blade #17 or #18 will give a good sharp corner, or alternatively a small pair of smooth invested blade #17 or #18 will give a good sharp corner, or alternatively a small pair of smooth invested blade #17 or #18 will give a good sharp corner.
- If a part is bent incorrectly, lay it on a hard flat surface and roll it flat with a cylindrical object such as a modelling knife handle.

#### (C)WHITE ENSIGN MODELS LTD. 2007

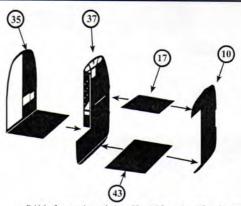
# BULKHEAD AND FLOOR ASSEMBLIES



Fold the three cabin bulkheads, etched parts 10, 35 and 37 in half so that they become double thickness with any etched detail outer most. Secure in to place with super glue.

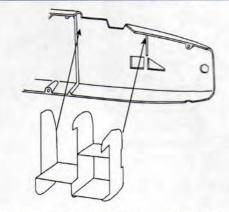


Fold the control linkage housing on the cabin middle bulkhead, etched part 37, so that the perforated sides are parallel, to form an enclosed box against the rear wall of the bulkhead.



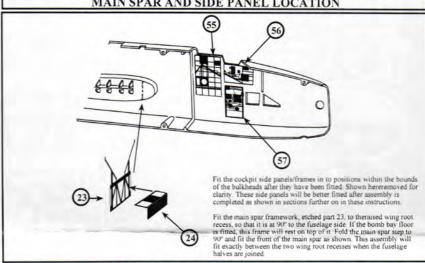
Fold the floor panel on etched part 35 to 90° forwards and fit to the rear wall of bulkend 37 as shown above. Fit floor panels 17 and 43 to the etched slots on the front wall of bulkhead 37 so that they are at 90° Fit the front edges of the two floor panels to the rear wall of bulkhead etched part 10. Ensure that the floor panels are at 90° to the bulkheads.

## COCKPIT AREA ASSEMBLY

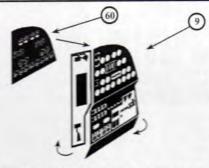


Fit the complete cockpit cabin asembly in to the left side of the fuselage, kit part 37, after first removing all moulded details and guide rails from the interior, except for the very rear and the front vertical locating bars. These will help with the positioning of the assembly.

## MAIN SPAR AND SIDE PANEL LOCATION

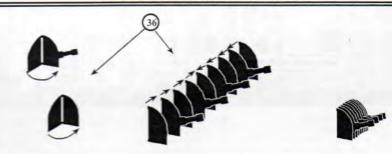


## FLIGHT ENGINEERS MAIN PANEL



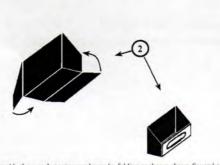
Fold the side and bottom plates of the Flight Engineers Panel to 90° and secure in to place. Fit the transparent instrument film to the rear of the panel so that dials line up with the holes in the facu. It is recommended that this film is secured in place using Humbrol Clear Fix as an addressive. The instrument bezels can now be highlighted by painting the rear face of the film with a bright white or dayglo white paint. Alternatively for the adventurous, a small light may be fitted behind the panel.

## FLIGHT ENGINEERS FUEL COCKS



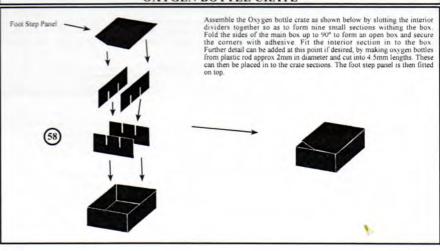
a assemble the fuel cock lever quadrants for both the Pilot, etched parts 52, and the Flight Engineer, etched parts 36, fold each part in half that the curved base is double thickness. This will also provide extra spacing between the levers when assembled. Assemble the levers shown with blank spacers in between each lever to give depth to the assembly.

# PARACHUTE STOWAGES

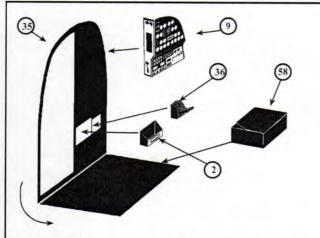


Assemble the parachute stowage boxes by folding as shown above. Several of theseitems have been provided and are placed on the bulkheads or cabin side walls adjacent to each crew station just above floor level.

# OXYGEN BOTTLE CRATE



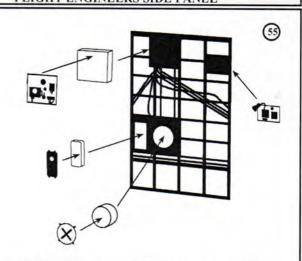
### FLIGHT ENGINEERS POSITION



Fold the floor panel of etched part 35 forwards to 90 before assembling the cabin structure as described in a previous section. This part should now be fitted into the right fuselage half and secured in place Fit the assembled Flight Engineers panel so that the curvature of the panel matches the curvature of the bulhead and fits into the curve of the fuselage. Fit the assembled etched parts 2 and 36 on to the relief etched recesses on the forward wall of the bulkhead.

Fit the oxygen bottle crate assembly to the floor on the left side, so that it is directly below and forward of the Flight Engineers panel.

# FLIGHT ENGINEERS SIDE PANEL

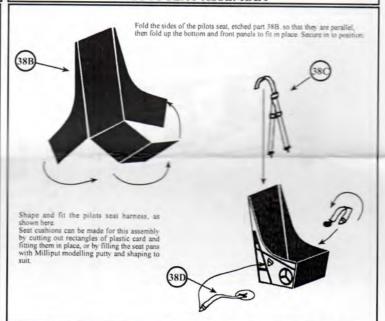


Assemble the side panel for the Flight Engineers compartment as shown above, using plasticard of 30 or 40 thou thou thickness to back up the smaller panels and give them depth. This panel is fitted to the left fuselage side after fitting the cabin structure assembly in to place.

# SEXTANT CASE ASSEMBLY AND LOCATION

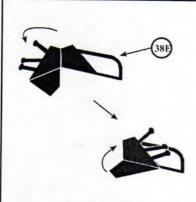






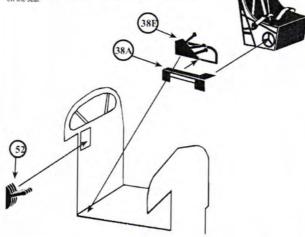
# PILOTS LEVERS

## PILOTS SEAT LOCATION

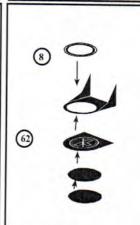


Fold the pilots flap and undercarriage lever control, etched part 38E, so that the levers point forward as shown. The extra thickener piece is then folded up the outside of the lever box to give extra depth to the assembly.

Fit the pilots seat centrally to the cockpit floor section with the seat back almost touching the middle bulkhead. Fit the flap/undercarriage lever controls along side the seat with theback of the lever box against the bulkhead. Fold etched part 38A to 90° and fit alongside the seat assembly with the forward rectagular piece touching against the trim wheel on the seat. (38E



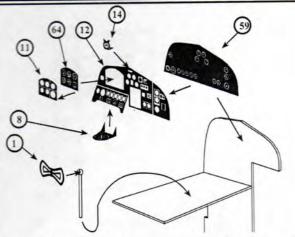
# COMPASS ASSEMBLY



Assemble the pilots master compass, etched part 8. As shown above by laminating the layers and including the transparent film part 62. Paint the back of this film, White, before fitting in placethen secure using Humbrol ClearFix as an adhesive.

1

# PILOTS INSTRUMENT PANELS



Fold the lower left section of the pilots instrument panel, etched part 12, outwards at an angle as shown above. Fit the transparent film 59 to the back of etched part 12. A small vertical cut will need to be made so that the film will follow the the shape of theangled part of the instrument

panel.

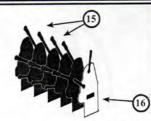
Fit the assembled compass, etched part 8, centrally to the underside of the angled part of the

Fit the Flight Instruments 11 and the transparent film 64 together and fit in turn to the shaped recess on etched part 12. The transparent films will show up the bezels better if the back faces are painted white before assembly. Assemble using Humbrol ClearFix to prevent any clouding. Cut the moulded plastic control wheel from kit part 4, then replace it with etched part 1 using the same mounting stem

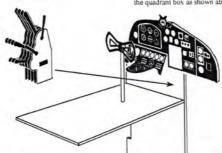
## THROTTLE QUADRANT ASSEMBLY



Fold and assemble the throttle lever quadrant in the same manner as that which has been described for the fuel cock lever quadrants.

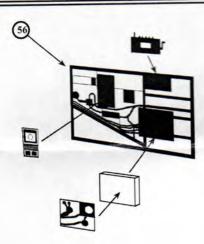


Fold and fit etched parts 16 to the outer ends of the quadrant box as shown above.



Fit the Throttle Quadrant assembly to the floor of the pilots cockpit, so it is positioned centrally against the instrument panel.

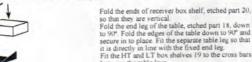
# PILOTS SIDE PANEL

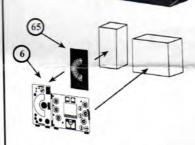


Assemble the pilots side panel, using 30 and 40 thou plastic card to back the smaller panels with, and give them depth. This panel fits on the left fuselage half in the pilots cockpit area as shown in a previous section.

# WIRELESS OPERATORS TABLE ASSEMBLY

Make receiver boxes out of 80 thou plastic card.





Cut two boxes from laminated plastic card or modelling board to  $7 \times 4 \times 3.5$  mm and  $7 \times 5 \times 4$  mm ensure that the rear face of the transparent film is painted white before assembling between the boxes and etched part of.

This makes the Wireless Transmitter and Receiver boxes.



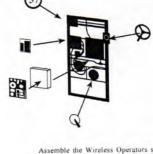
# WIRELESS BOX LOCATION

Fit the wireless operators desk assembly to the lower compartment below the pilots cockpit with the desk against the front wall. Fit the wireless equipment on to the desk so that they back against the wall. Cut two lengths of 2mm (80)hou) thick plastic card to 8 x 3 mm to make the HT and LT boxes that fit on the shelves under the table.

# WIRELESS OPERATORS SEAT AND SIDE PANEL



Fold the Wireless Operators Seat, etched part 39, to the shape shown above and secure in to place. Fold all five legs on the seat base, etched part 40, upwards and fit the ends equally around the etched circle under the seat pan. Fit lap strap 13 to seat.

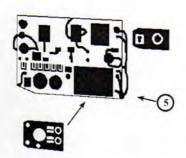


Assemble the Wireless Operators side panel in the same manner as described in previous sections using 30 or 40 thou plastic card to back up the smaller panels and give them depth.

This panel fits in the Wo compartment on the fuselage sidewall so that part of the hand wheel at the top right corner, protrudes over rear part of the window.



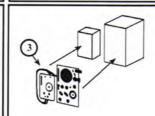
## NAVIGATORS PANEL ASSEMBLY



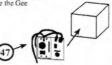
Assemble the navigators panel using 30 or 40 thou plastic card to give the smaller panels depth

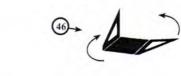
## "GEE" EOUIPMENT BOXES

Fold down the back edge of etched part 4 to 90° then fold down the end braces to 90° to make the shelf for the Gee indicator boxes.



Cut two boxes from laminated plastic card or modelling board to  $2.5 \times 3.5 \times 2$  mm and  $5 \times 3.5 \times 4$  mm to make the Gee indicator boxes using the facia, etched part 3.

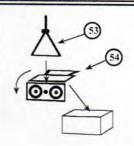




Cut a box from plasticard or modelling board  $3.5 \times 4 \times 4$  to make the Gee receiver box using etched facia parts 47.

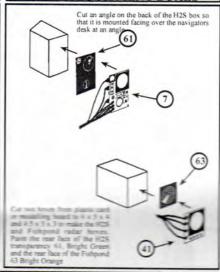
Fold the sides of etched part 46 upwards vertically to make athe shelf for the Gee receiver box.

# DF LOOP CONTROL BOX

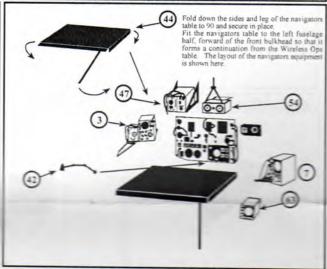


Cut a box from plastic card or modelling bo to 3 v 2 x 1.5 mm to make the DF loop cost box using the facia part 54 and the starp

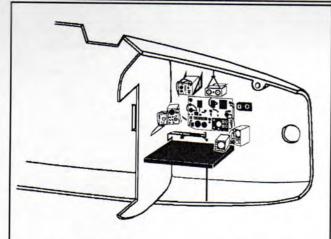
## RADAR EQUIPMENT BOXES



# NAVIGATORS POSITION LAYOUT



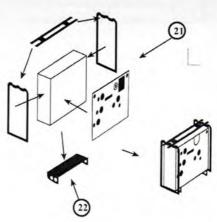
#### NAVIGATORS POSITION LOCATION



Fit the navigators table and equipment in to the left fuselage half as shown here. Fit the navigators panel 5 directly on to the inside of the fuselage half as well as the Gee receiver box and shelf and the H2S box. The DF Loop control box fits to the fuselage side above the main panel, but the Gee indicator boxes and shelf fit on to the forward wall of the front bulkhead. The main panel and the Gee indigator boxes may partially obstruct the window but this is how they were actually fitted.

The Fishpond radar box is mounted on the forward end of the desk top. This box may have only been fitted to 100 Group countermeasures aircraft, though it was good for detecting and plotting the range of night fighters.

## BOMB AIMING EOUIPMENT



Make the bombing computer box by first cutting out a rectangle of 60 thou (1.5mm) plastic card to the dimension of the computer fascia plate. Fit the facia plate to the plastic card to the plastic card.

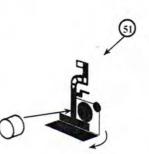
Fit the two end frames so that the slotted parts are at

Fit the two data that the top.

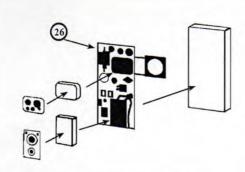
Fit the top frame to the slots on the end frames.

Fold the ends of etched part 22 down to 90° and fit to the underside of the computer box.

Cut a length of 2mm plastic rod to 2mm and use as a giro casing for the bomb sight. Fold the sight base back to 90°.

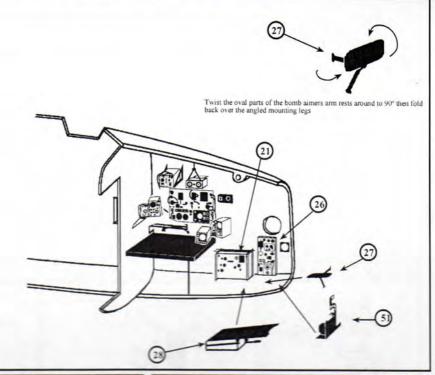


## BOMB AIMERS POSITION LOCATION

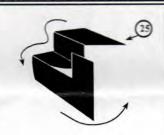


Cut out a rectangle of 60 thou (1.5mm) plastic card to the dimension of  $6.5 \times 3$  mm to use as a backing for the bomb aimers left panel. Fit the smaller panels to the main panel using backing pieces of 30 thou plastic card.

Fold the side frames of the bomb aimers couch, etched part 28, down to 90° so that they are parallel. Fit the couch so that the left support fits on the left half of the fuselage, so that when the two fuselage halves are joined together the couch will be central. Fit the bomb aimers left arm rest so that thelower leg fits to the fuselage bottom and the angled leg fits on to the curve of the fuselage as the side starts to become vertical.



## COCKPIT STEPS ASSEMBLY



Fold the etched part 25 as shown above to form two steps. Gently curve the lower vertical panel around the bottom step until the large rectangular part passes under the angle of the top step. Fix this in place and secure the edges of the steps with super glue.

#### ENGINEERS JUMP SEAT

Fold the edges of the Navigators Jump Seat back to 90 so that the are parallel then fit the hange brackets on to the recesses on the seat base. This shows the seat in its folded and sowed condition.

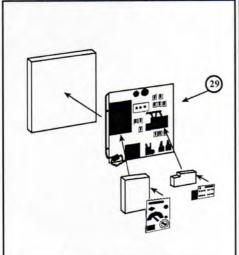


## NAVIGATORS SEAT ASSEMBLY

Fold the back and legs of the transgations seat to 90° their join the leg sections together at the corners.

45

# BOMB RELEASE PANEL



Cut a piece of 40 thou (1mm) plastic card to the dimension of  $7 \times 6.5 \,$  mm and use to back the Bomb Release Panel, etched Part 29. Use 30 thou plastic card as a backing for the smaller panels before fitting them in place as shown above.

## COCKPIT AREA RIGHT SIDE FITTINGS

