# MAGNA MODEL

BRISTOL FREIGHTER 170 Mk 21

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BRIEF HISTORY

RESIN CONVERSION KIT Kit No 4072 Page 1 Donor kit required:- Airfix Bristol Mk32 Superfreighter, Kit No 05002

An improved version of the Mk 1/11, the Mk21 featured rounded wing tips, more powerful engines and increased fuel capacity compared to the earlier marks. A total of 92 aircraft of this mark were produced before it was superseded by the Mk31. Two crashes were found to have been caused by a stress fracture of the fin which resulted in the fitting of a dorsal fin fillet to the Mk31.Other modifications included rounded tips to the tailplanes and the repositioning of the oil coolers to the wing leading edges, many Mk21's were retro fitted with these modifications. Operators of the Mk21 included Silver City, Cie Air Transport, Air Outremer, Autair, Australian National, Saudi Arabian, Central African, Air Kruise, BEA, Eagle, Air Vietnam, Channel, RAAF, RAF, LTU, Aviacion Y Comerico and Ste Indochinoise de Transports.

TECHNICAL DATA

Span 108' Length 68'4" Height 21'8" Weight empty 26,4841bs Loaded 40'0001bs Max speed 193mph Ceiling 21,000ftPowerplants 2 x Bristol Hercules 672 14 cylinder two row radial piston engines of 1,690hp

#### REFERENCES

Scale Aircraft Modelling Vol 14 No 4 contains colour details of most military schemes. Scale Aircraft Modelling Vol 13 No 12 includes a selection of civil schemes. Scale Models International November 1991. British Civil Aircraft Vol 1, A J Jackson, Putnam.

ADHESIVE NOTES

For plastic to plastic joints use Liquid Poly or similar. For resin to resin and resin to plastic use Super Glue(Note that Super Glue bonds resin very strongly, tack joints with a very small amount and check alignment before applying sufficient for a permanent joint) Use PVA (white) glue to attach canopy, super glue will cloud transparencies. For glazing cabin windows and nose door apertures, if required, use Krystal Kleer or similar. Use cellulose stopper/putty to fill joint lines, it dries quickly and is softer to rub down than resin or polystyrene and thus will cause less damage to the surrounding areas.

PAINTING NOTES

Clean model thoroughly with a luke warm solution of washing up liquid and water before applying primer. White or light grey cellulose primer will adhere well to plastic and resin and will rub down to a "feather"edge if any faults show up after priming. Apply several very light coats until coverage results, too heavy an application could damage the polystyrene parts. This primer will accept any type of top coat paint.

DECAL NOTES Most of the air force markings applicable to the Mk 11 are available on specialist sheets obtainable from some model shops. Messrs Hannants catalogue includes listings of numerous sheets from several manufacturers. Unfortunately there are very few decals of suitable airline markings available although some lettering and numbers may be gleaned from the alphabet and number sheets produced. Letraset rub down sheets are a useful source of lettering and numerals in several colours and styles, these are available from specialist stationary shops. The Hannants Xtra Decal range includes sheets of striping in several colours and widths which could be used for cheat lines.

### PREPARATION OF PARTS

Cut casting lug from resin fin with a razor saw and sand edges square to guide line. Gently rub down flash on nose mouldings with wet or dry paper attached to a flat surface until any flash just disappears. Cut canopy from backing sheet approx 2mm outside of guide lines with a small, sharp pair of scissors and then carefully cut along guide lines. It is easier to do it this way than try to do it in one go. Modify Airfix kit parts as illustrated in diagrams, take extreme care to ensure all cuts are square and straight or excessive filling will be required after assembly. Note that resin is toxic and take care not to inhale dust when cutting etc. Magna Models reserve the right to alter the specification of this kit without notice.

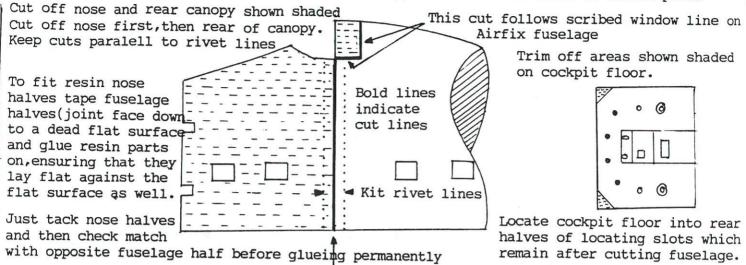
BREAKDOWN OF PARTS

Nose, port & starboard Engines X 2 Fin/Rudder Main uc wheels Canopies Coolers x 2 T'planes x 2 & tailwheel

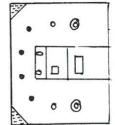
### AGNA MODELS

RESIN CONVERSION KIT Kit No 4072 Page 2 BRISTOL 170 FREIGHTER Mk 21

Diagrams of modifications to Airfix parts



Trim off areas shown shaded on cockpit floor.

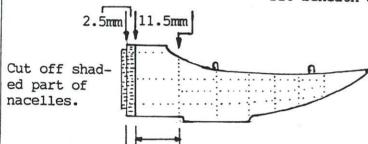


Locate cockpit floor into rear halves of locating slots which remain after cutting fuselage.

Resin main uc wheels. Drill holes in plain, leg side of hubs slightly deeper to accept the Airfix kit stub axles.

Engine nacelles modification

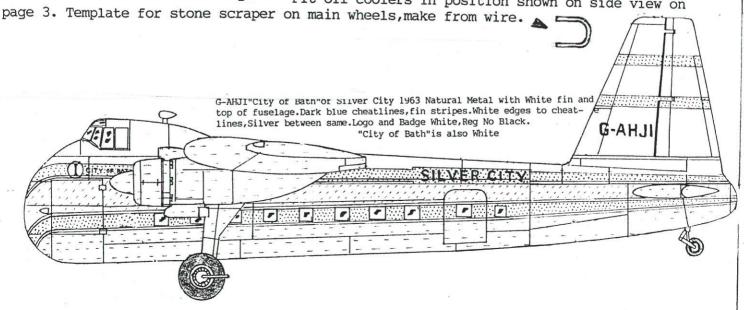
When fitting resin engines note that shallow slots at rear fit beneath air intakes on top of nacelles.

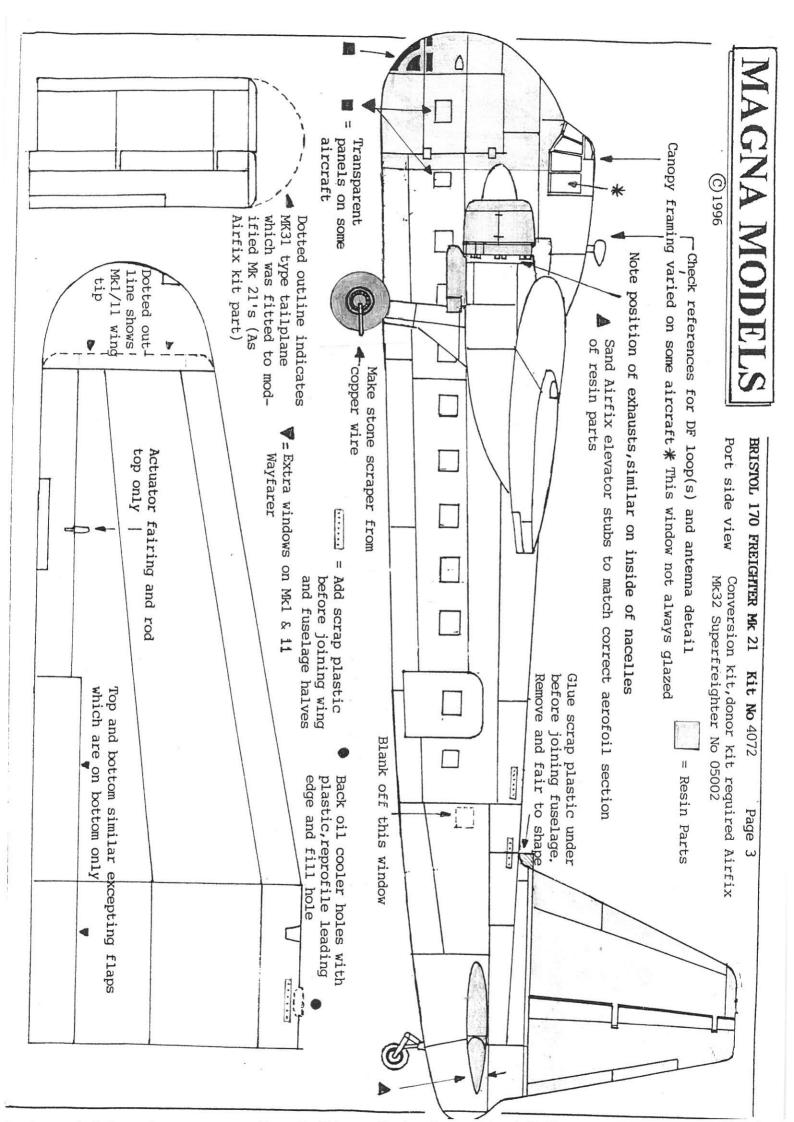


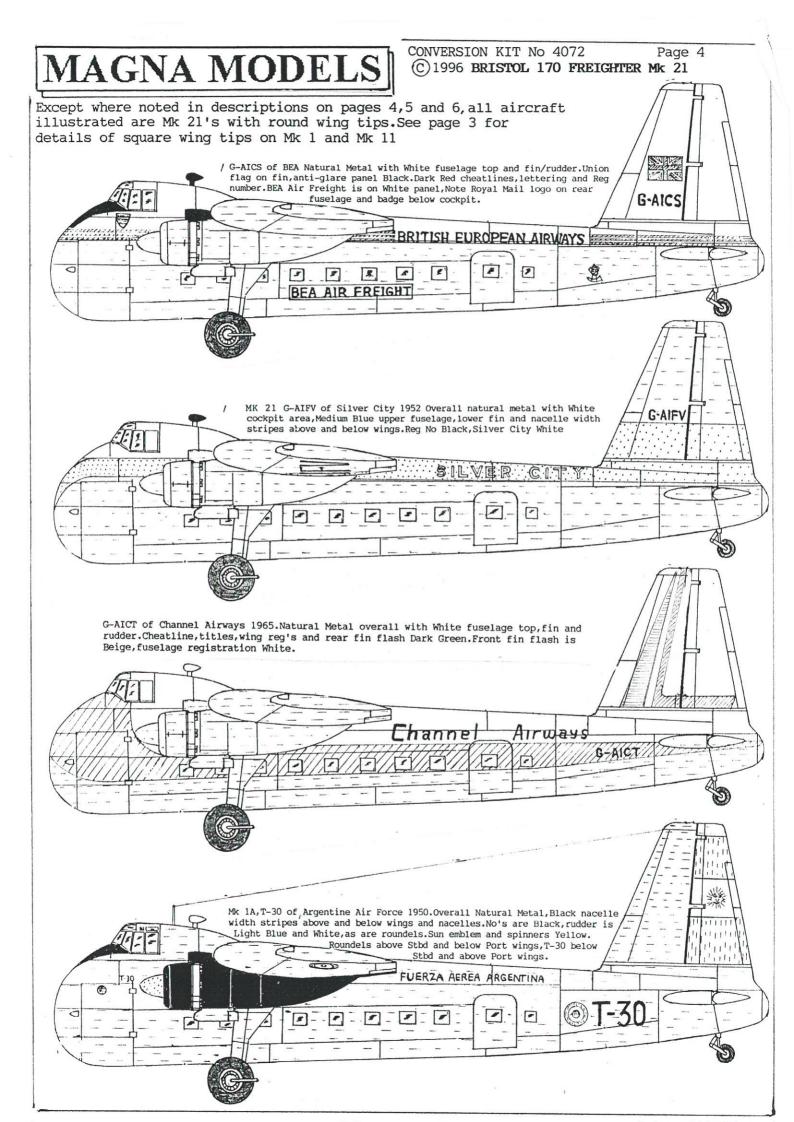
MADE IN SPAIN by Magna Models, Apt de Correos 27, Trapiche 29719, Malaga. Tel/Fax 0034 952 030 962.

After fitting resin engines cut 1.5mm lengths from plastic rod for exhausts. Fit in positions shown on side view drawing on page 3

GENERAL NOTES The Airfix kit has rivet detail and shaded areas for cheat lines which are best removed by rubbing down with 1000-1200 wet or dry paper and panel lines then scribed. The trailing edges of the flying surfaces are much too thick and need rubbing down to a more scale thickness. Note that the number of windows varied on certain aircraft so check photos of particular machine you are modelling and modify as required.DF loops and atenna also varied considerably as did cockpit glazing, so, again check references. Some machines had transparent panels at the bottom front of the cargo doors, these can be drilled and filed out, or, alternatively painted black and given a coat of gloss clear varnish. Cabin windows in the Airfix kit are very thick and a more realistic effect can be achieved by using Krystal Kleer or a similar "glazing" agent. Excepting modifications aforementioned build the kit as per the Aifix instructions. Note that props will not need rotating spindle, glue spinners to props and super glue to front of resin engines. Fit oil coolers in position shown on side view on







## MAGNA MODELS

CONVERSION KIT No 4072 Page 7 © 2002 BRISTOL 170 FREIGHTER Mk21

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