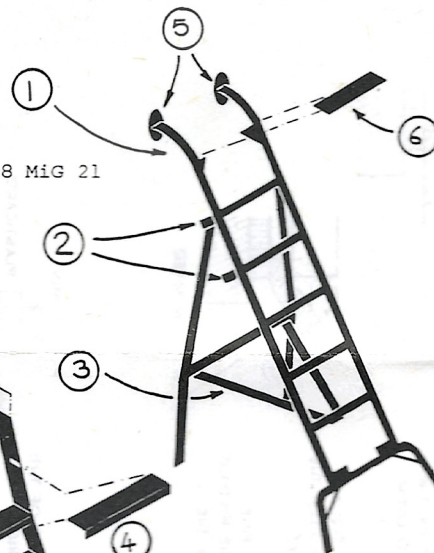


AL708 MiG 21

1. Carefully curve over top of ladder side frames as in diagram.
2. Fold side brackets (2 each side) to 90 degrees, using tweezers.
3. Fold A frame on rear legs to about 80 degrees.
4. Locate tops of rear legs between front side brackets and A frame under second rung. Glue in place.
5. Glue buffer pads on top ends of ladder side frames.
6. Glue top step in place, noting half etched slot engages with triangular bracket.

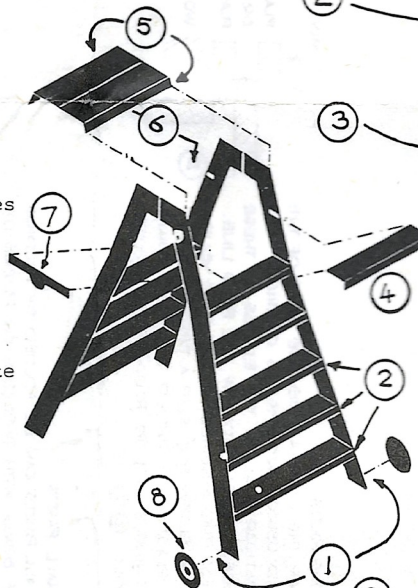
AL708 MiG 21



AL709 RAF Step Ladder

1. Fold sides of both ladders.
 2. Fold rungs of both ladders.
 3. Carefully bend upper portions of side frames so that they are parallel vertically.
 4. Fold front edge of sixth step (2 off) using pliers to hold the narrow strip very firmly. Slip the steps into the half etched grooves in ladder side frames and glue.
 5. Fold front edges of top platform as in 4 above.
 6. Place ladders together as in diagram, locate top platform and glue all parts together.
 7. Glue side stays in place.
 8. Glue wheels in place.
- Note. To assemble folded, cut top platform in half along half etched groove, glue each half to each ladder, then glue ladders together back-to-back.

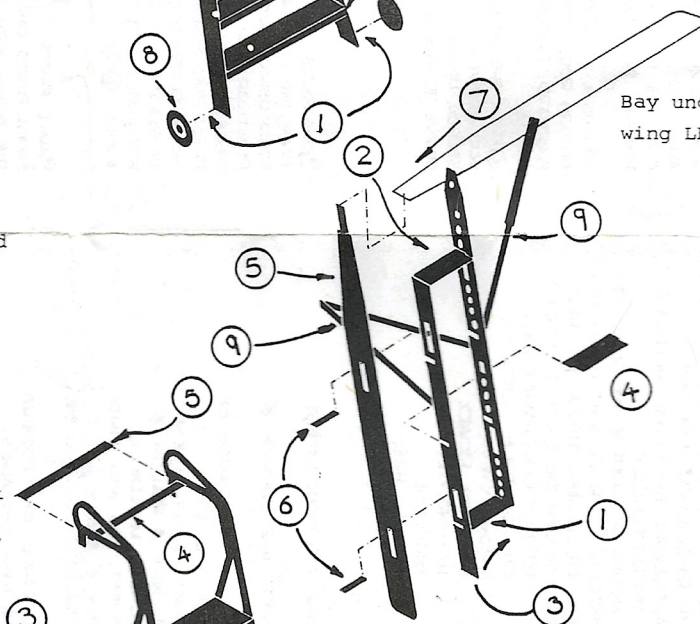
AL709 RAF Step Ladder



AL710 F 18 Hornet

1. Fold bottom step of right side frame.
 2. Fold top step of left side frame.
 3. Glue side frames together ensuring they are parallel.
 4. Slip second and third steps into half etched slots in side frames and glue.
 5. Glue large cover plate to left side frame, ensuring latch slots align correctly.
 6. Glue open latches in place at top of slots.
 7. Drill 0.7mm Ø hole in underside of aircraft Leading Edge Extension (LEX) at front of engraved ladder bay, as shown.
 8. Glue ladder in place, locating lug on cover plate on hole.
- Glue retraction jack and stays to ladder and aircraft as shown.
- Note. Ladder is painted white, outside of cover plate painted to match outside of aircraft. Indicate open ladder bay by painting dark grey, up to engraved line on model.

Bay under wing LEX

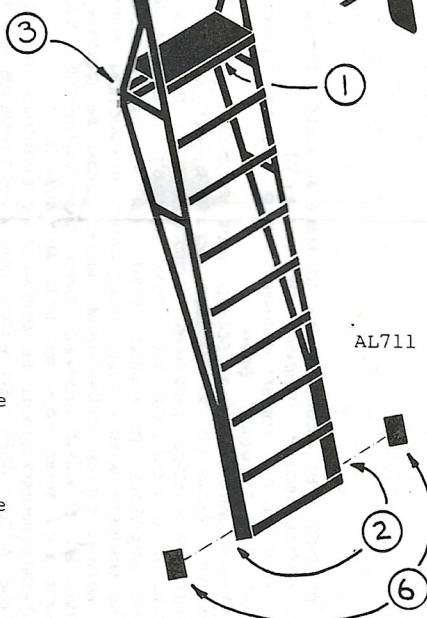


AL710 F 18 Hornet

AL711 F 105 Thunderchief

1. Fold top step.
2. Fold side frames.
3. Fold buffer beams and glue to left side frame as shown in diagram.
4. Fold first tie bar to right side frame and glue.
5. Glue second tie bar between sill hooks, parallel to first tie bar.
6. Glue reinforcing plates to bottom ends of side frames.

AL711 F 105 Thunderchief



Drawn T J Perry © 1984

AC701 Ejector Seat Handles and Canopy Mirrors

1. Paint items before detaching from frame. Handles usually yellow with black stripes and black attachment fittings.
2. Carefully cut from frame and glue into place on seats and canopies as appropriate. Tweezers are recommended!
3. Check your references for correct fitting, several styles of handles are provided suitable for most Martin Baker seats and may be suitable for other types as well.

P.P. AEROPARTS MODEL ACCESSORIES



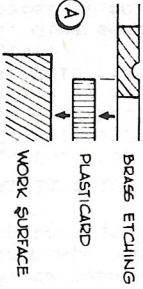
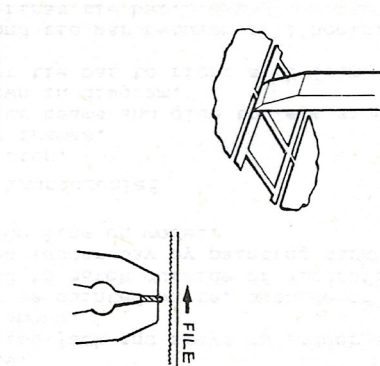
REMEMBER THAT ORDERS FOR P.P. AEROPARTS CAN BE SENT BY FREEPOST, SO NO STAMP REQUIRED! USE THE PRE-ADDRESSED ENVELOPE INCLUDED WITH YOUR DELIVERY.

WE WOULD OF COURSE BE DELIGHTED TO RECEIVE YOUR SUGGESTIONS FOR FUTURE RELEASES, THESE & OTHER ENQUIRIES CAN BE SENT DIRECTLY TO P.P. MODELS (HAMBRICK), CHERRY TREE COTTAGE, GROVE VIEW, BRISTOL ROAD, HAMBRICK, BRISTOL BS16 1RE.

HAVE YOU EVER SPENT HOURS TRYING TO MAKE AN ACCESS LADDER FOR YOUR LATEST MODEL MASTERPIECE? TRICKY, AREN'T THEY? WELL, NOW YOU CAN FORGET BURNING YOUR FINGERS STRETCHING SPRUE & PUT AWAY THE STRETCHING STRIP. P.P. MODELS (HAMBRICK) HAVE SOLVED YOUR PROBLEMS WITH THIS NEW RANGE OF LADDER KITS, DESIGNED TO PRODUCE ACCURATE REPLICAS OF THE REAL EQUIPMENT FOR YOUR DIAGRAMS, PHOTO-ETCHED IN THIN BRASS SHEET, THESE EXCITING NEW AIDS TO THE MODEL AIRCRAFT ENTHUSIAST HAVE A REALISM & FINESSE IMPOSSIBLE TO ACHIEVE EVEN WITH MODERN INJECTION MOLDING. COMING COMPLETE WITH A FULLY ILLUSTRATED INSTRUCTION SHEET, YOU WILL FIND THAT WITH A LITTLE CARE THESE MODELS CAN BE QUICKLY & EASILY CONSTRUCTED & WHEN HOOKED ONTO YOUR MODEL JET PLANE, YOU WILL BE DELIGHTED WITH THEIR TRUE-TO-LIFE APPEARANCE. P.P. MODELS (HAMBRICK) WILL BE CONTINUOUSLY EXPANDING THE RANGE OF LADDERS & OTHER ACCESSORIES, SO WATCH OUR ADVERTISEMENTS FOR NEW RELEASES.

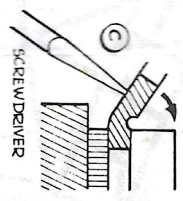
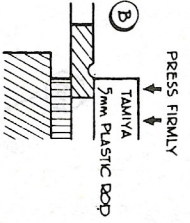
CUTTING OUT:
FIRSTLY, USE A FIRM CUTTING SURFACE, FOR EXAMPLE SCRAP PERSPEX OR THICK PLASTICARD. THE SURFACE MUST NOT DISTORT WHEN A CUT IS MADE OR THE BRASS WILL BE DISTORTED TOO. THEN, USING EITHER A SHARP 1/4" CHISEL OR STAINLEY KNIFE, CUT AS CLOSE TO THE REQUIRED PART AS POSSIBLE.

ANY TAG SCARS ON PARTS CAN BE CAREFULLY FILED AWAY WITH A SWISS FILE, HOLDING THE PART FIRMLY IN A PAIR OF PLIERS, SUPPORTING THE BRASS RIGHT UP TO THE TAG.



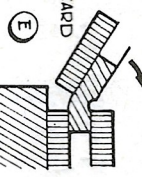
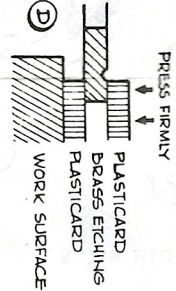
METHOD FOR STEPS:
① REST THE LADDER ON A THICK PIECE OF PLASTICARD NEAR THE EDGE OF YOUR WORK SURFACE, FOLD GROOVES UPWARDS. ALIGN THE STEP WITH THE EDGE OF THE CARD, THE PORTION TO BE FOLDED OVER-HANGING THE EDGE.
② USING A PIECE OF TAMINA 5mm SQUARE SECTION ROD, GRIP THE RING AGAINST THE PLASTICARD, PRESSING VEERY FIRMLY!

③ FROM THE UNDERSIDE USING A FINE SCREWDRIVER, CAREFULLY PUSH THE FOLDING SECTION UPWARDS, FOLDING ALONG THE GROOVE TO THE DESIRED ANGLE.



LONG FOLDS:
TRAP THE PART ALONG THE LINE OF THE FOLD USING TWO PIECES OF THICK PLASTICARD. ALIGN THE EDGES OF THESE PIECES EITHER SIDE OF THE FOLD LINE. PRESS THIS ASSEMBLY DOWN ONTO YOUR WORK SURFACE & SLIP A THIRD PIECE OF PLASTICARD UNDER THE PROTRUDING ETCHING & LIFT TO FOLD TO THE REQUIRED ANGLE. ④

SMALL PARTS:
SMALL PARTS CAN BE FOLDED BY HOLDING THE BRASS WITH TWEEZERS OR PLIERS UP TO THE FOLD GROOVE, USING A SCREWDRIVER TO FOLD OVER TO THE REQUIRED ANGLE.



ASSEMBLY:
THE EASIEST & NEATEST WAY TO ASSEMBLE THESE KITS IS TO USE SUPERGLUE. APPLY WITH A PIN OR A SCALPEL BLADE, RATHER THAN DIRECTLY FROM THE TUBE. EPOXY GLUES CAN ALSO BE USED, OR THE PARTS CAN BE SOLDERED TOGETHER. REMEMBER TO DEFLUX THE ASSEMBLED ETCHING BEFORE PAINTING. WASHING-UP LIQUID CAN BE USED FOR THIS, RINSED OFF WELL BEFORE PAINTING.

PAINTING:
IDEALLY THE BRASS SHOULD BE PRIMED USING SELF-ETCHING PRIMER, BUT AN UNDERCOAT OF WHITE OR GREY ENAMEL WILL DO AS WELL. FINAL COLOURING SHOULD BE CHECKED AGAINST YOUR REFERENCES, VARIATIONS ARE FAR TOO DIVERSE TO GO INTO DETAIL ON THIS SHEET, HOWEVER, LADDERS ARE USUALLY YELLOW OR RED, OFTEN WITH THE SERIAL NUMBER OF THE AIRCRAFT TO WHICH IT

BELONGS, STENCILLED IN A PROMINENT POSITION. TREADS ON RUBERS & STEPS ARE USUALLY RUBBER. EQUIPMENT IN USE IN COMBAT ZONES IS OFTEN PAINTED CAMOUFLAGE GREEN, CHECK YOUR REFERENCES. BECAUSE OF THE HARD LIFE THESE LADDERS LEAD, WEAR ON THE PAINTWORK IS OFTEN EVIDENT, THIS CAN BE SIMULATED BY DRY-BRUSHING WITH ALUMINIUM COLOURED PAINT. SEE INDIVIDUAL INSTRUCTION FOR LADDER PLACEMENT ON AIRCRAFT. WHILE PARKED, THE LADDERS ARE OFTEN PLACED BESIDE OR UNDER THE NOSE OF THE AIRCRAFT, READY FOR USE.

USEFUL REFERENCES INCLUDE THE "DETAIL & SCALE" SERIES, "SQUADRON/SIGNAL SERIES", IAN ALLEN'S "MODERN COMBAT AIRCRAFT" SERIES, AVIATION MAGAZINES SUCH AS "SCALE AIRCRAFT MODELLING", "FLIGHT INTERNATIONAL" AMONGST MANY OTHERS.