

AC740 Detail set for Italeri HS Hawk T1/T1A

This kit contains cast resin, cast metal and photo-etched parts to improve the Italeri HS Hawk kit, adding missing details and correcting several outline errors, as well as providing several alternate stores fits to give your models variety.

Before commencing construction of your model, we strongly suggest a thorough reading of these instructions, in conjunction with the set parts, the plastic kit, and the reference material you have at hand. See the attached notes for recommended sources of information. Then decide which parts are actually going to be required for your model; several combinations of stores are catered for in this set, the spare items will be very useful for other models in your collection. Also read the hints and tips on cutting and fitting, using different adhesives and sources of other useful items before starting.

Then plan your construction sequence. Some modellers prefer to assemble the model in its entirety, then paint and decal, while others complete various sub-assemblies and bring these together after each unit is finished. This set includes many small parts such as aerials and probes which will be very vulnerable if added early in the construction process, and these are probably best left until the very end of assembly.

The parts in this set have been designed to fit the Italeri Hawk kit. The smaller detail parts will be useful on any kit of the Hawk, but major airframe parts such as the nose and tail parts will not fit other kits without modification. Alternative decals are available from Modeldecal, Almark and Xtradecal. See over for source address'.

1. Cockpit details. Assembly can follow the overall sequence given in the Italeri instructions. Moulded detail on the side consoles should be trimmed or filed away and replaced with the appropriate etched parts. The Kit instrument panels should also be smoothed, and the solid etched panels glued onto them. Trim away any plastic that projects beyond the metal! Paint white and when dry apply the Modeldecal instrument transfers and allow to dry. A coat of gloss varnish will seal them. Meanwhile paint and dry-brush the etched panels using a base of pale grey, with black instrument bezels, highlighted with white, red, yellow etc. Then attach over the decal images, using gloss varnish or white glue, which will dry clear.

Rudder pedals should be glued onto the back of each instrument panel as shown. Control columns can be used from the kit, while white metal seats are provided to replace the kit items. Alternate head boxes are provided if you wish to model an earlier version; check your reference material for the appropriate version for your model!! You will have to cut away the headbox from the seat castings as indicated, and glue the older type into place as shown.

2. Before assembling the fuselage, VERY CAREFULLY cut away the nose and tail sections, using the moulded panel lines as a guide. It is much easier to get a clean square cut while the two halves are separate! Join the fuselage halves together, and locate and glue the resin nose and tail sections into place, making sure they are aligned correctly. Any gaps can be filled and smoothed over when the glue has set; use Cyano type glue for this. Note the nose lamp can be modelled with an MV lens, see below for supply details.

Test fit the cockpit bathtub into the fuselage and mark the level of the cockpit sill on the rear cockpit bulkhead, remove the tub and cut away the top of the bulkhead; this face will be replaced by the resin 'Hump' shortly! Replace the cockpit and glue into place. Then locate the resin 'Hump', trimming the fuselage mouldings if necessary. Glue into place and fill and smooth any gaps; be careful not to fill in any location dimples!

3. Construction of the rest of the fuselage and wings can now be completed as per the kit instructions, although if you wish to model your aircraft with the flaps deployed, you should trim away the flap moulded to the top wing halves as shown. This is actually more complicated than it appears, because the flaps moulded on the kit are much too broad! We recommend trimming away ALL of the flap moulded to the upper wing, scraping the new trailing edge to a sharp edge. Then assemble the wing, and cut a plug strip of 60 thou plastic card approx 2mm x 34mm and locate this into the flap bay as shown; when the glue has set, file this plug smooth with the underside of the wing. The location holes for the flap hinges should be redrilled 2mm further back from the moulded positions, so use the kit holes as a guide, then fill them in when the new holes are done. Flaps and hinges are best fitted later, as they will be fragile!

You may also wish to model the Ram Air Turbine deployed, although this is rarely seen when the aircraft is parked. It is raised as part of the start-up checks, so if your model is shown with crew in the cockpits, you could show this feature! Etched covers for the refuelling point on the left intake are also included, so if you wish to show this open, you will have to cut a hole in the intake using the moulded panel lines as a guide. Blank the hole with thin styrene sheet before assembling the intake. Notice this is only on the left side, fill and smooth over the panel line on the right side of the aircraft!

Joints should be checked, filled and smoothed off, and we found the intakes were not a very good fit into the leading edge of the wing; simply trim and fill! You should also file away the moulded tail actuator covers around the tailplane location slots, and saw slits in the wing to take the fences. You need not fit the etched covers and fences until later, to prevent accidental damage to them!

4. The rest of the cockpit area can be completed now, the sill/bulkhead etching folded to match the angle of the resin

hump, and carefully glued into place. The coaming for the rear cockpit can be fitted, and this will probably need trimming slightly to fit over the etched panel. Trim away the moulded wedges that represent the HUDs on the kit parts. The etched Head Up Displays can be folded and added if you are modelling the T1A version, or omitted if you are modelling the trainer T1.

5. Undercarriage legs and wheels can be used from the kit, although it would benefit from some brake hoses, added from thin wire or stretched sprue. The main doors are from the kit, with the addition of the hinge supports and latches, all etchings. The outer doors are provided as etchings, with the retraction links to the main leg added. Be careful to line these parts up correctly! If you are using the Red Arrows smoke pod, you might need to trim the main door slightly to hang almost vertically. The forward nose doors are from the kit, again with the etched hinges attached, but the small rear door is etched, with two link/hinge pieces added. These locate either side of the nose leg, as shown.

6. Airframe details such as the intakes on the fuselage hump, the anti collision lights, small exhaust on the right lower rear fuselage and the ventral fins can be fitted now. The tailplane actuator covers and tail surfaces can also be glued into place, although you will have to trim the locating lugs on the kit tail surfaces to pass through the etched slot. Trim the UNDERSIDE, as the tail planes will be too high on the fuselage; another minor fault with the basic kit! The etched base plate for the fuel dump can be glued to the side of the tail pipe fairing, the pipe added from a sliver of stretched sprue or wire. If you are modelling a 100 Squadron target facilities aircraft, the target cable hook assembly should be glued to the side of the rear fuselage as shown. Parts are also included for the radar repeater pod and frame used when operating with Tornado F3 aircraft. This fits under the fuselage as shown. You may wish to fit this after painting and decals have been applied.

7. Painting and finishing for the fuselage can be done now, and after all the decals and varnishes have dried you can turn your attention to the stores. A Red Arrows smoke pod is included as a resin casting, together with the adapted tail plate mounting three oil pipes, all etched. These pipes squirt dyed diesel oil into the engine exhaust, producing the coloured smoke required for the display. For the more aggressive versions, a number of operational fits are included.

LAU 7 rails and adapter shoes, as well as AIM 9 Sidewinders are included, suitable for the grey air defence version, or a mix of AIM 9 acqn pod and ACMI data link pod, also carried on the LAU 7 rails. (ACMI pod under the right wing, the training AIM 9 under the left.) These are used for Air Combat Training, the ACMI pod passing relevant data on airspeed, attitude, manoeuvres and missile launches, to a central computer system. Later, pilots progress can be replayed and analysed. The training AIM 9 can be depicted by leaving off all the fins from a missile casting!

For ground attack training, two MATRA rocket packs or two CBLS practise bomb carriers are included, together with 8 4kg bombs. Sometimes aircraft fly with a mix of one of each of these units, as well as the ADEN gun pack. This pack is included in the kit, although a cast metal muzzle and etched tail plate are included in the Aeroparts set.

8. The windscreen and canopy should be added, taking the windscreen from the kit, and the main canopy from the vacformed item included in the set. Cut this out using small sharp scissors; you may find warming the plastic in hot water will help make the cutting easier! Use the printed template to cut out the internal screen, and CAREFULLY glue into place using White Woodworking glue or Krystal Kleer; both dry clear, so will not mar the rest of the canopy. The etched overlay can be used, but it is as easy to paint the framing into place! The etched handles and mirrors are added as shown, and after painting the canopy can be fitted into place, as well as the diagonal blast screen supports.

9. Finally the remainder of the smaller items such as aerials, undercarriage doors, as well as the fragile items such as flaps, stores can be fitted. Parts are included for the pull-out steps, although the large step/work platform is used. This is included in the PP Aeroparts range as kit AL716.

We have also included tail pipe and intake covers, which have handles attached as shown. These can be fitted to your model, or placed in the mesh basket under the steps of the ladder; kit AL716.

COLOUR NOTES

You should refer to your reference material regarding the overall colours used on your model, as these will vary depending on the version you are modelling. Most external fittings such as flaps, hatches, pulsons etc will match the aircraft, but the following colour notes are provided for some of the other items.

ACMI Pod	Mid Blue with black nose section, steel pitot probe. Usually there is a number such as SN258 repeated four times around the nose and tail of the body, in white.
AIM 9 Training	Blue or grey body, dark grey nose section with pearl grey seeker window. Straps around body are bright steel.
MATRA Rocket pod.	Body and tail cone bright metal or dark green. Nose cone black, with steel tip.
CBLS Pods	Overall dark green with white bomb bay. Nose sometimes has black tip. Ejector Warning triangles usually on pod sides. Practice bombs are mid blue, with steel release jaws.

Ejection Seats

Overall medium grey with green cushions, buff or blue webbing. Release handles are black and yellow stripes. Various red/white warning notices are attached to the headbox. Ejection guns are black, other fittings steel or grey.

Acknowledgements

Our grateful thanks to Chris McKee, Neil Scrimgeour and Jon Mock for their assistance in the preparation of this kit.

SPECIAL NOTES FOR ASSEMBLY OF STORES ETC.

To assemble AIM 9 Sidewinders, clean up metal body castings. Then taking one rear fin and one rolleron etching, fold rolleron around the trailing edge of the fin as shown, glueing CAREFULLY into place. Supporting the missile body in a lump of modelling clay, locate and glue the first rear fin in place, making sure it is straight and centrally located. Repeat for the opposite fin, making sure it is level and in line with the first fin. Then add the third and fourth fins, making sure they are square with the first two. Then glue the front fins into place, making sure they are aligned with the rear fins. (This is extremely fiddly!! But then, no one said it was going to be easy!!)

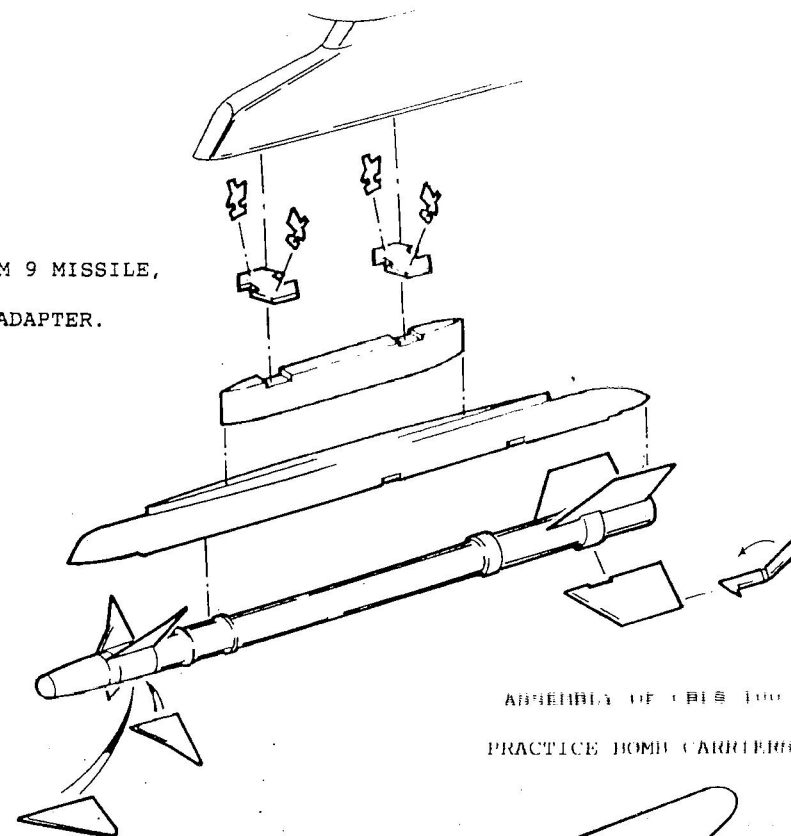
To assemble LAU 7 rails and adapters, glue the sway brace plates to the location recesses in the adapters as shown. Then locate the launch rail to the adapter, making sure it is parallel. Then glue the adapter to the kit pylon. Finally, and these are tricky, glue the pylon sway braces to the pylon and brace plates; several spares are included!!

To assemble the MATRA rocket packs, clean up the white metal nose cones. Then cut the resin main body casting from its sprue, followed by the tail cone. This last item should be VERY carefully sawn through level with the top of its sprue, as shown. The hole through this item passes into the sprue, so you should end up with a tapered ring, as shown. The three parts can then be plugged together, and glued.

To assemble the CBLs units, simply clean up the castings and after painting, glue the four bombs into each pod using the locating dimples as a guide.

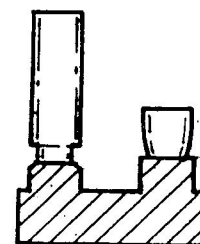
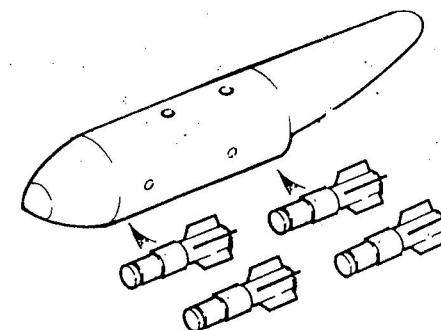
To assemble the flaps, after modifying the wing as detailed above, locate the two larger and four smaller flap hinges into the holes drilled earlier as shown. Make sure the hinges line up when viewed from the wing tip towards the fuselage. Then test fit the flap casting onto the locating pins on the flaps. You may have to adjust the hang of the flaps to get them into exactly the right position! Indeed, it might be easier to trim off the pins, fill the holes in the flaps and simply locate and glue directly onto the hinges!

ASSEMBLY OF AIM 9 MISSILE,
RAIL AND ADAPTER.



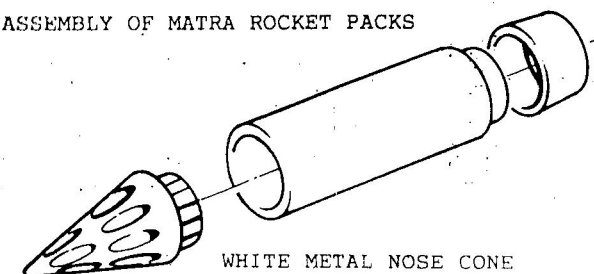
ASSEMBLY OF CBLs FOR
PRACTICE BOMB CARRIERS

ALTERNATE FORE-FINS FOR SIDEWINDER

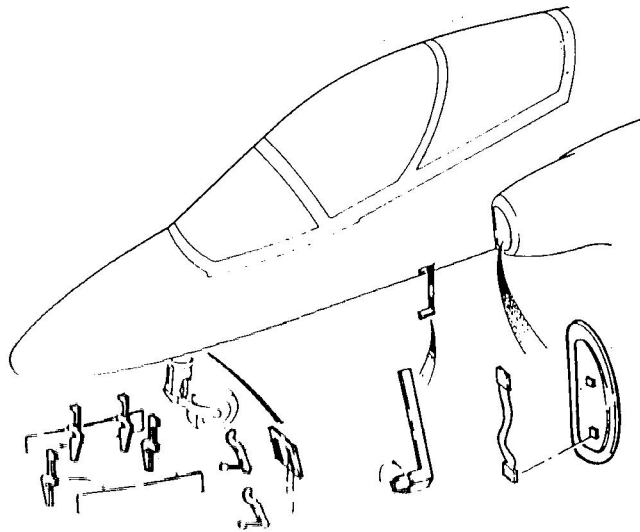


REMOVE SPRUE

ASSEMBLY OF MATRA ROCKET PACKS



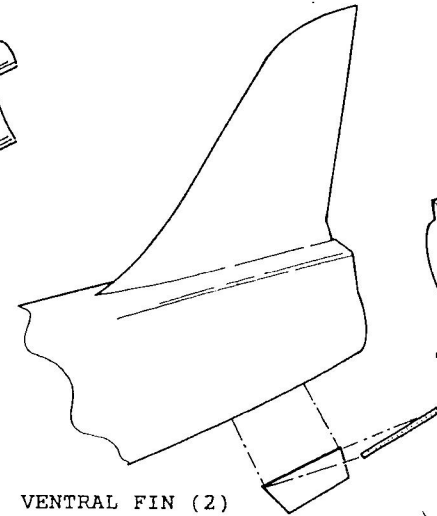
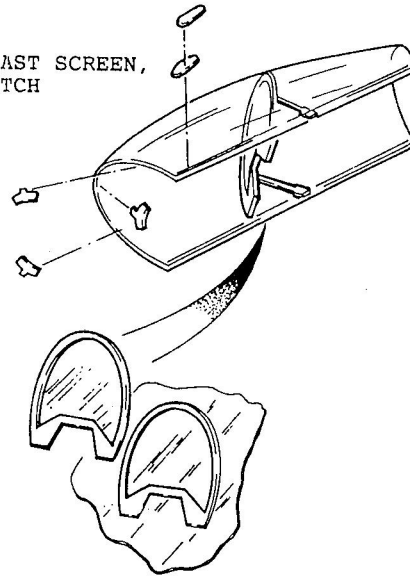
WHITE METAL NOSE CONE



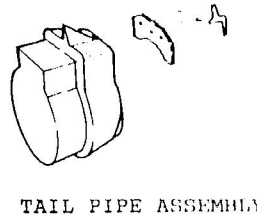
NOTE U/C DOORS, FITTER AND INTAKE COVER

VACFORMED CANOPY WITH BLAST SCREEN,
SUPPORTS, MIRRORS AND LATCH

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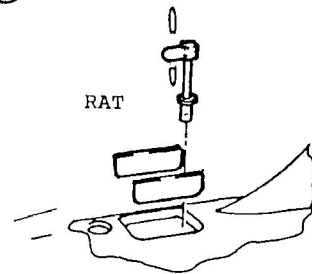
VENTRAL FIN (2)



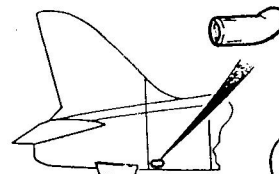
TAIL PIPE ASSEMBLY

FUELLING PANEL

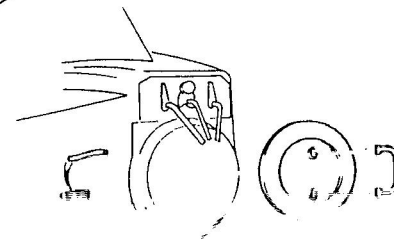
RAT



EXHAUST

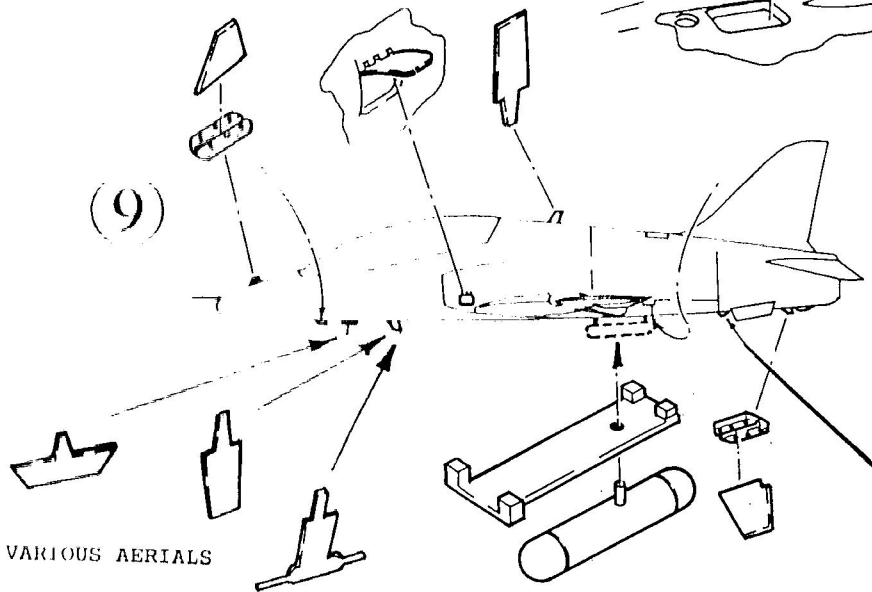


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TAILPLANE FITTING

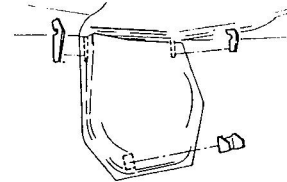
9



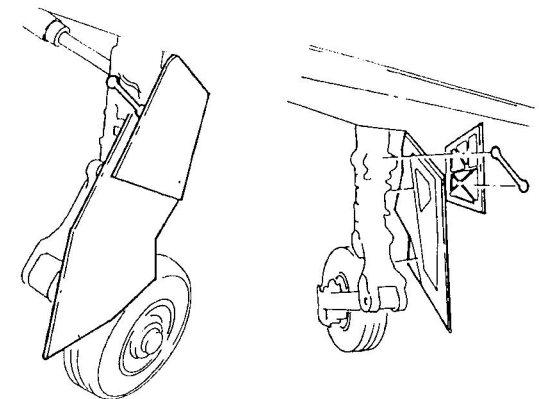
VARIOUS AERIALS

RADAR REPEATER POD

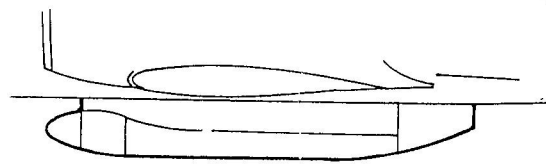
MAIN U/C DOORS



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RED ARROWS SMOKE POD

P.P. MODELS
STUDIO 2
9 BATH BUILDINGS
MONTPELIER
BRISTOL, U.K. BS6 5PT
tel. 0272 445721