

A10 ARF

Maintenance and Repair Manual



The A-10 Warthog

It has come under our attention that further strengthening and maintenance is needed to the A10. This maintenance and repair must be done immediately. Failure to do so may cause structural failure with subsequently lost of model.

All models produced from October 2013 will automatically be updated at factory. Please inspect the nacelles in this transition period to make sure the modification has been done..

Office Taiwan:

No.9.39 Lane, Yuag-Chang 2nd Street, Ren-Wu Hsiang, Kaohsiung Hsien, 814, Taiwan, R.O.C.

TEL: +886 9 3299 7923

FAX: + 886 7373 1215

<http://www.skymasterjet.com>

Sales : skymaste@seed.net.tw

Technical support : morne.m@pixie.co.za

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Tools and Adhesives

This is a fairly quick and easy plane to build, for a jet model, not requiring difficult techniques or special equipment, but even the building of XtremeJets aircraft requires some suitable tools! You will probably have all these tools in your workshop anyway, but if not, they are available in all good hobby shops, or hardware stores like "Home Depot" or similar.

1. Sharp knife (X-Acto or similar)
2. Allen key set (**metric**) 2.5mm, 3mm & 5mm
3. Sharp scissors, curved type for canopy
4. Pliers (various types)
5. Wrenches (**metric**)
6. Slotted and Phillips screwdrivers (various sizes)
7. Drills of various sizes
8. Battery drill and Dremel tool (or similar) with cutting discs, sanding tools and mills
9. Sandpaper (various grits), and/or Permagrit sanding tools.
10. Carpet, bubble wrap or soft cloth to cover your work bench (most important !)
11. Car wax polish (clear)
12. Paper masking tape
13. Denaturated alcohol, Acetone, or similar (for cleaning)



Adhesives:

Not all types of glues are suited to working with composite parts. Here is a selection of what we normally use, and what we can truly recommend. Please don't use inferior quality glues - you will end up with an inferior quality plane, that is not so strong or safe. Jet models require good gluing techniques, due to the higher flying speeds, and hence higher loads on many of the joints. We highly recommend that you use a slow cured epoxy for gluing highly stressed joints, like the hinges and control horns, into position and the most commonly used is 'Aeropoxy' (Bob Violett Models, USA). The self-mixing nozzles make it easy to apply. It takes about 1 - 2 hours to start to harden so it also gives plenty of time for accurate assembly. Finally it gives a superb bond on all fibreglass and wood surfaces.

1. CA glue 'Thin' and 'Thick' types. We recommend ZAP, as this is a very high quality.
2. ZAP-O or Plasti-ZAP, odourless (for gluing the clear canopy)
3. 30 minute epoxy (stressed joints must be glued with 30 min and NOT 5 min epoxy).
4. Aeropoxy/Loctite Hysol 3462 or equivalent (optional, but highly recommended)
5. Epoxy laminating resin (12 - 24 hr cure) with hardener.
6. Milled glass fibre, for adding to slow epoxy for stronger joints.
7. Micro-balloons, for adding to epoxy for lightweight filling.
8. Thread-locking compound (Loctite, or equivalent)

At Skymaster we try our best to offer you a high quality kit, with outstanding value-for money, and as complete as possible. However, if you feel that some additional or different hardware should be included, please feel free to let us know.

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Nacelle inspection:



- When you receive the A10—please inspect the area around the main formers.
- There should be carbon cloth and carbon tube installed laterally.

Nacelle modification:

Part 1 :



- Drill extra holes to secure engine hatch
- Secure hatch with 16 x 2mm screws.
- Repeat for other side.

Part 2 :



- Remove turbine and tailpipe.
- Mix resin.
- Glue 2 x 8mm carbon tubes laterally to both main formers.
- Use carbon cloth to support the carbon tube to former.
- Use normal glass to glass the formers to skin of nacelle. Repeat for front and back.
- Repeat both sides. After cure install tailpipe and turbine again.
- All present customers will receive carbon tube and cloth via post.

For further detail : http://youtu.be/cd_ryWL5RWU