

# PHR48101 A-10C COCKPIT UPGRADE

- Always Wash parts before gluing and painting
- CA Cyanoacrylate (super) glue is required to glue parts
- Do not inhale Resin dust or particles
- Wear Eye and dust protection when cutting, scraping or sanding parts

Unassembled Model Kit, Glue & Paint Not Included, NOT a TOY, Adult Collectors - Ages 14+, Small Parts, Resin, Resin Kit Experience Required





#### SET DESCRIPTION

This upgrade set contains parts to easily upgrade the 1/48th HOBBYBOSS A-10 kit (80323) to the current A-10C configuration. The kit includes parts needed to bring your model up to date with all the latest cockpit displays and instruments. Parts are also included to detail the insides of the model glass parts as well as an accurate HUD. The kits ACES II ejection seat can be used but we recommend one of the super detailed Phase Hanger Resin ACES II seats – available separately with or without belts and with or without sheepskin seat covers. (PHR 48102, 48103, 48114, 48115).

Different jets can have various layouts and configurations. These depend on the service date and markings of the jet that your model is representing, so check your references carefully. We recommend REID PUBLICATIONS's fabulous book – The Modern Hog Guide, 2<sup>nd</sup> Edition by Jake Melampy. (Available from REIDAIRPUBLISHING.COM - Current A-10C Decals are also available from REID AIR PUBLICATIONS.













#### **Prepare 3D PRINTED RESIN Parts**

Remove all parts from printing Supports and clean-up support connection locations.



3D printed resin parts are super detailed and accurate however the resin can be brittle and snapping the parts from their printing supports will nearly always leave a 'divot' in the part. This divot may or may-not require filling depending on its location on the finished part. CA or filler can be used to repair.

TIP: Using a razor saw against the resin part is the only way to remove the 3D printed supports without damaging the partscutting with nippers will usually cause a divot. Nippers can be used on supports that are away from the resin part.











**Prepare CAST RESIN Parts** 

filling/repairs are needed.

NOTE – it is likely that UV Resin used in 3D printing is toxic if ingested so please use a mask when sanding and beware of the resin dust.

Check out our videos showing the best technique to remove the printed supports.

Remove all parts from casting blocks and clean-up castings.

TIP: Using a razor saw is the easiest way to remove the casting blocks. It is recommended to cut with a little extra material remaining and then flat sand the parts to fit exactly.

#### **Prepare KIT Parts**

Cuts to some kit parts are required to fit the new set components.

It is essential to make accurate cuts to the kit parts and mount the new cockpit parts correctly to ensure that the kit's clear windshield and canopy parts (K1 & K2) will still fit correctly to the fuselage once everything is assembled. Therefore, it is recommended to assemble the new front and rear frames, to the clear parts (with white glue) at this stage, so that they can be used to continually check that they fit, as you assemble and finally position the cockpit parts.

Fuselage Halves Kit Parts A1 & A2







Use a razor saw, or your preferred method, to remove the top of the IP (Instrument Panel) Shroud level with the bottom of the existing shroud.

Cut 2.9mm from rear edge, following inside edge of cockpit opening. Removing this block will allow the new IP/ Shroud to fit against the top of the fuselage.

Test fit the new IP/Shroud and use this part as a guide to mark the remaining area of the kit part to remove.



Cut-away the remaining part so that the new shroud can fit through the opening.



Using the kit's fuselage side-mounting points, glue kit part F28 (Titanium Tub Bottom) to left half of the fuselage – Remove mounting blocks first. The rest of the kit Tub is not used. Parts are now ready for assembly

### **Assemble Parts**

Carefully dry-fit all parts and ensure alignment. Make any needed adjustments by minor sanding or edge clean-up.

Once you are happy with the fit, USE CA Super Glue to glue the Tub, Rear Deck and IP/Shroud together as shown.

TIP: Use PVA to glue the IP/shroud to the tub instead. Now you can remove it after the tub and rear deck are glued in place, making masking the cockpit easier, with no chance of damage or overspray during build and painting. Attach IP/Shroud finally once painting is complete.

Using the ORANGE shaded area, shown below, as a guide, carefully sand down the bottom and sides of the TUB and possibly the remaining edges of the new Shroud opening. Do this in small increments until the assembly fits into the kit fuselage exactly.

The bottom of the Resin tub should rest on the kit Titanium Tub Bottom part- F28. The rear deck can be fitted by

either cutting off the kit mounting lugs or cutting out their corresponding areas under the Deck Resin part. Small adjustments and trimming will ensure a tight fit is achieved.

Tape the assembled front windscreen assembly - (clear part and resin front-frame), to the kit to ensure that the new shroud/IP is mounted as high as possible without blocking the fit of the canopy.

attaching final small parts.

Kit JOYSTICK H2, Resin THROTTLE, HUD and EJECTION SEAT can be glued in place before or after final cockpit installation or even at the end of your build when

Once you are happy with the fit, USE CA Super Glue to glue the Resin Parts to the kit parts. Fill any gaps as per normal kit construction.

The Resin Front and Rear Frames glue to the inside of their corresponding clear kit parts. Use a PVA or similar, to avoid glass crazing. Carefully fill any gaps. The connector on the rear frame clips into the brace of the rear deck.

HUD







## **GLASS Parts**

Pre-Cut clear plastic HUD Glass is included. Use white glue or similar glue to add to the HUD frame before finally installing the front windshield.







**Detailed Instructions & references 0** https://phasehangarresin.com/collections/48001-1-48/products/48092-f-15-eagle-standard-drop-tanks-set-of-2

PHR-\_\_\_\_8005 -Layout.pdf contains all the exact positioning locations and measurements to ensure you position the components in their correct location.

A video run-thru of the build is coming soon on the PHASEHANGER You Tube channel. You might find it helpful to watch this.

TIP: PHR also produces correct ACES II ejection seats for the A-10 – with and without belts and choices of covering. AVAILABLE SEPARATELY

NOTE: PHR parts may come with or without 3D printed supports. This is because printing technologies are constantly evolving and PHR will always use the best process to deliver the best product to the modeller.



