

1:1000 REFIT ENTERPRISE PHOTOETCH SET

PGMS
ParaGrafix™
Modeling Systems

INTRODUCTION

Thank you for purchasing ParaGrafix's photoetched enhancement set for the Polar Lights 1:100 scale refit Enterprise. We have made every effort to ensure that these parts can be used successfully by a modeler of modest experience, but there may be items that require advanced modeling techniques. For a basic primer on the use of photoetch, please visit <http://www.paragrafix.biz/instructions> and other resources available on the web.

Materials

In addition to the photoetch, you will also need scissors or a knife* to remove individual pieces from the main fret, a file to remove material left from cutting, and super glue (aka CA or cyanoacrylate). Additionally, to fold some pieces, you will need a pair of razor blades** or a specialty tool such as an Etchmate 3C from Mission Models.

* We prefer a #17 Xacto chisel blade.

** Extreme care must be taken when using razor blades. Risk of serious injury.

Key

Kit part (plastic): 

Photoetched part: 

Removing Detail

 Where applicable, these instructions note an area where the raised kit detail must be removed. The symbol at left will show you where this needs to happen. This may be done in whatever way you are most comfortable.

Über-Detailing

 We've included special instructions for addition / enhancing detail not available simply using the photoetched parts. Look for the Über-Detailing Symbol.

Clear Windows

Instead of using the included clear kit parts for the officers's lounge and arboretum windows, we suggest using Micro Kristal Kleer or a similar product. (Apply after painting.)

Lighting

Although we have included parts that make lighting easier, electronics and lighting design (including additional ship modifications to direct light) are up to the builder.

Kit Decals

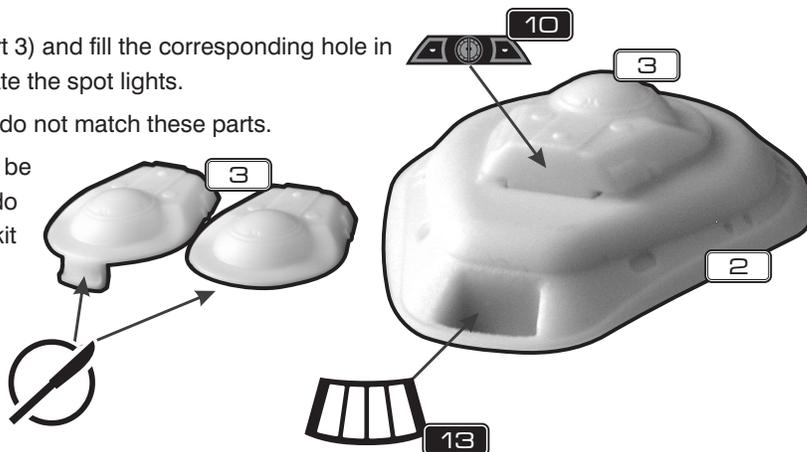
In many cases the kit supplied decals will not line up with the enhanced detail provided by this photoetch set.

Bridge and Officers' Lounge

 Remove the front tab of the bridge (kit part 3) and fill the corresponding hole in the upper primary hull (kit part 2) to simulate the spot lights.

Attach etch parts 10 and 13 as shown. Kit decals do not match these parts.

TIP: The officers' lounge window frames (13) can be formed before gluing into place. An easy way to do this is to snip the attachment tabs from the clear kit part (102) and temporarily installing it. Once the etch part has been formed to the right shape, remove the clear part and (if desired) remove the area that it snapped into.



Planetary Sensor Platform

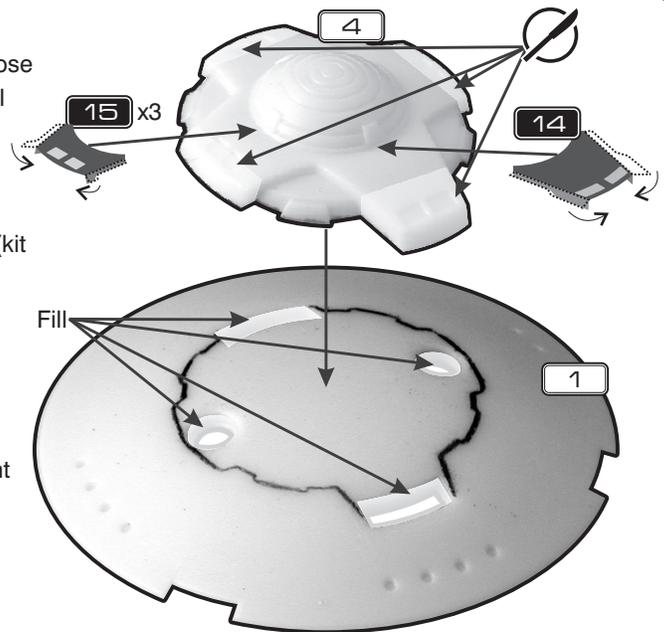
The sensor platform covers (etch parts 14 & 15) are designed for those who are lighting the kit. If you are not lighting the Enterprise, you will likely find it easier to omit this step as the etch parts provide no additional detail.

Before proceeding, snip off the locking tabs on the lower sensor platform (kit part 4) and hold it in position on the lower primary hull (kit part 1). Now take a sharp pencil and trace around the platform to mark its location as you will be removing all of the locator tabs and pins.

Fill in the locator holes and slots on the lower primary hull as these will be visible after assembly.

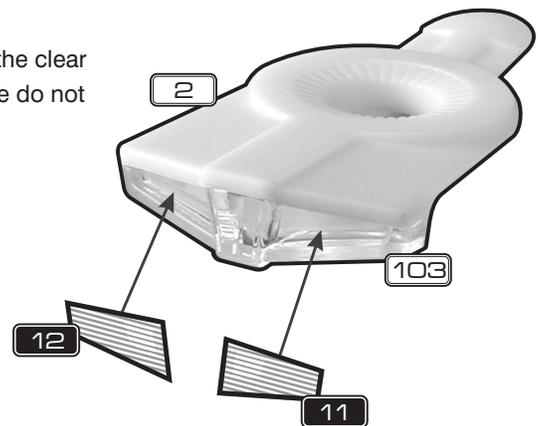
 Cut off the ends of the spotlight sections as shown on the right and thin the material from the back side to allow light to pass.

Fold and apply the sensor platform covers (14 & 15) as shown. You will likely find this easier to do once the sensor platform has been attached to the hull. Kit decals may not fit precisely.



Impulse Engine Grills

Simply attach the engine grills (etch parts 11 & 12) to the outer surface of the clear impulse engine exhaust (kit part 103). The kit decals for the impulse engine do not match parts 11 & 12 (nor do they fit the kit part 103).



Primary Hull Edge Windows

 Temporarily place kit parts 1 and 2 together - this will provide stability and strength while drilling out the windows.

Tape the drilling guides (etch parts 5, 6, and 7) to the edge of the primary hull as shown. For the oval and square windows you might need to employ very fine jeweler's files or your preferred method. Note that drilling guide 5 is used six times while guides 6 & 7 are only used once.

TIP: The arrow etched into each guide indicates the "up" direction, and the small triangular tabs on the top and bottom of each piece line up with the deflector grid.



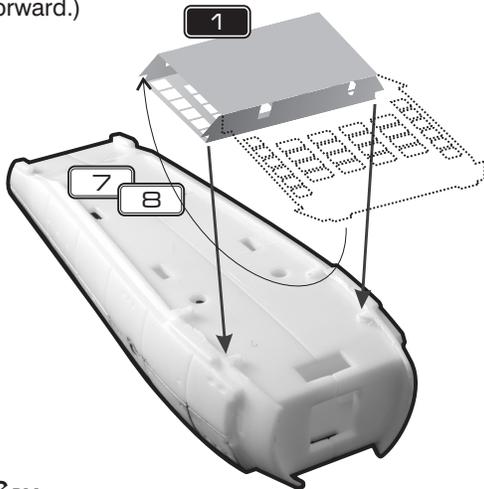
Shuttle Bay & Arboretum

 The shuttle bay and arboretum require fairly extensive modifications of the secondary hull. All of these modifications are quite easy and can be accomplished with a razor saw and files in short order.

Remove (or shorten) the pieces as shown in the figures to the right. If you will be lighting the arboretum, remove some of the ceiling area above the windows.

Arboretum

Assemble hull halves 7 & 8 before attaching the arboretum (etch part 1). Fold the arboretum as shown below, and install between the (mostly removed) old window brackets. (Note that the thinner end goes forward.)



Shuttle Bay

Complete the assembly of the secondary hull, including warp engine pylons (kit parts 11 through 14), but *excluding* the shuttle bay door (23).

Fold the shuttle bay (etch part 8) as shown and attach to the shuttle bay door.

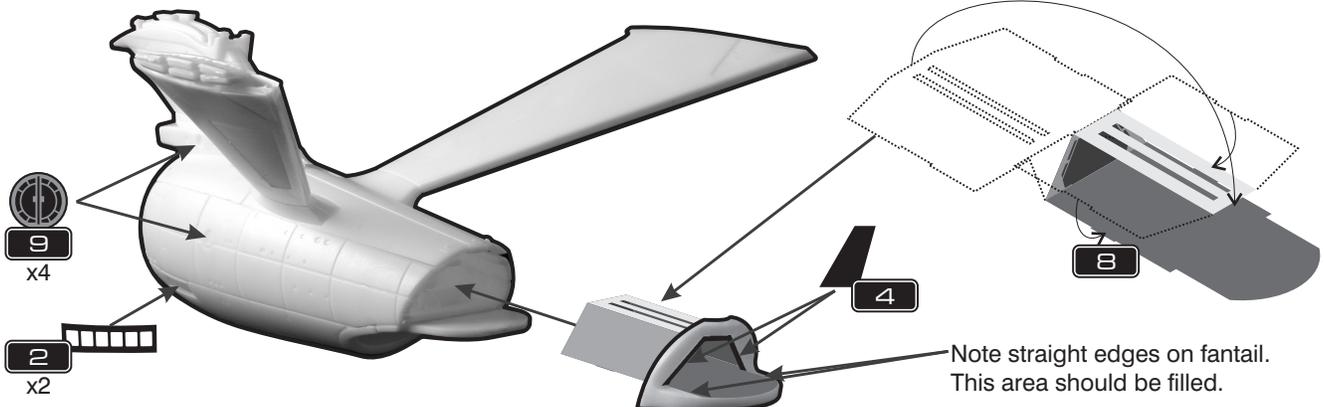
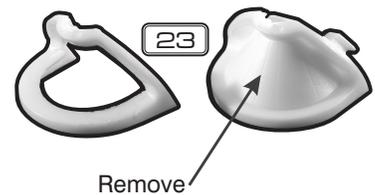
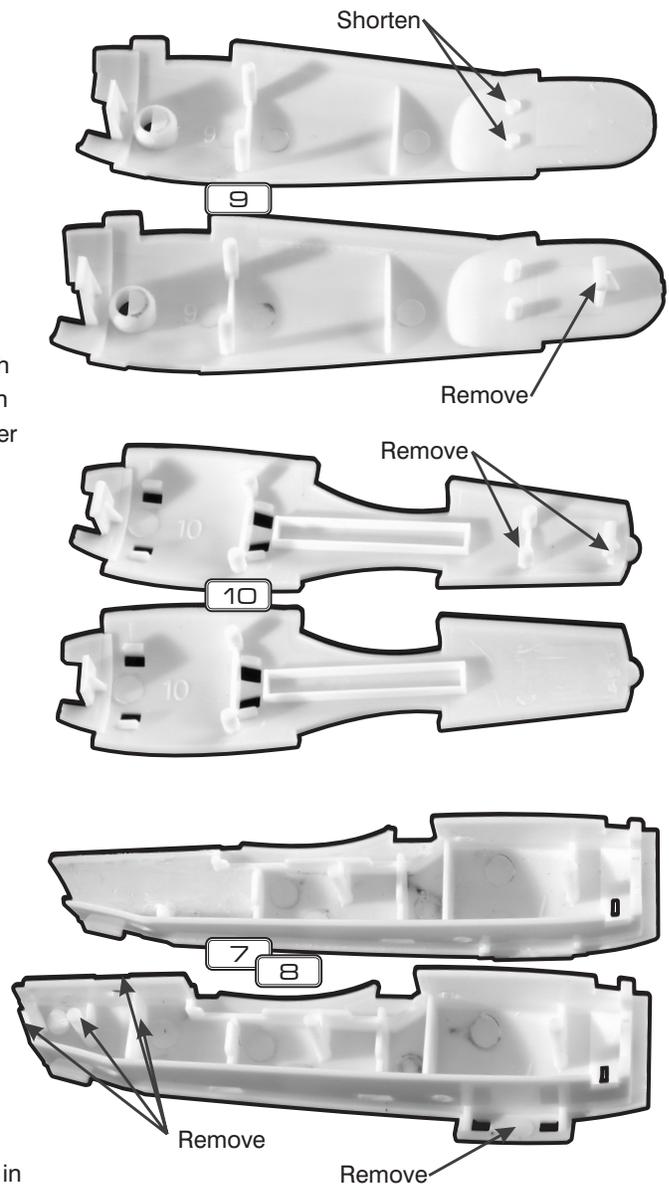
Slide the assembly into the completed secondary hull and glue in place. Attach shuttle bay doors (etch parts 4).

Docking Ports

Add docking ports (etch parts 9) to the four locations on the secondary hull. Since these parts are extremely small, we have provided twice as many as required.

Arboretum Windows

Slightly warp each window frame (2) to match the hull curvature and attach them over the window openings. You may remove some kit material to help the frames fit flush.



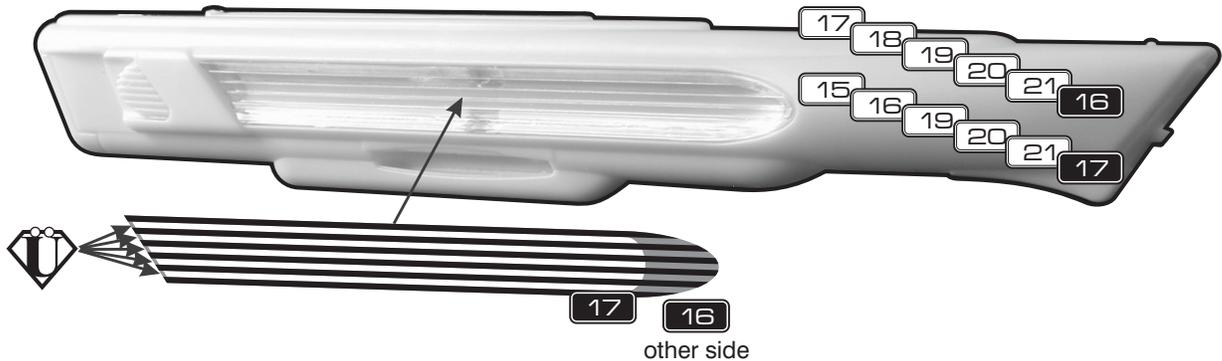
Warp Engine Grills

After assembling the warp engines (kit parts 15, 16, 17, 18, 19, 20, 21 and clear parts 108 & 109), attach the photoetched parts as shown.

TIPS: You can paint the grills ahead of time to eliminate masking. Use of a clear adhesive (such as Micro Kristal Klear) is recommended if you will be lighting the engines.



For extra accuracy, you can remove the small tabs at the front of etch parts 16 & 17. Note that this will make the parts more difficult to work with.



Stand

Attach the nameplate (etch part 2) to the stand as shown.

If you will be painting the nameplate, you should consider annealing it before application so that it will sit more smoothly. (The annealing process will discolor the brass.)

If not annealing, note that the nameplate will not sit as tightly to stand.

If you prefer to leave the brass finish, you should consider sealing it with clear laquer. Alternatively, you can use standard brass polish on it if/when it becomes tarnished.



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