

# REFIT ENTERPRISE

## Engine Grills For 1/537 Scale

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PGX215

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### INTRODUCTION

Thank you for purchasing ParaGrafix's window template set for the classic 1/537 scale refit USS Enterprise it. 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.asp> for printed instructions and <http://www.paragrafix.biz/video-instructions-1.asp> for videos.

Please note that some pieces in this photoetch set will be easier to work with if they are annealed. Annealing will make the brass more pliable so that it can bend around the kit parts without springing back. Please see the video on annealing at the above link for instructions on how to do this.

### MATERIALS

In addition to the photoetch, you will also need photoetch cutting 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). Micro Krystal Klear and/or Testors Clear Parts Adhesive and Window Maker are excellent choices for attaching parts that are attached to clear areas of the ship.

\* We suggest using Xuron's 9180ET scissors.

\*\* We prefer a #17 Xacto chisel blade.

### OTHER AFTERMARKET PARTS

This set includes pieces designed to work with the DLM impulse engine set (DLM06.4). The warp engine grills will work with either the stock kit's engines or those from DLM (DLM08).

#### Key

Kit part (plastic): 1

Photoetched part: 1

### IMPULSE ENGINES

**NOTE:** See the image at bottom right that shows how the "wings" on both types of impulse engine crystals get wrapped into position.

#### STOCK KIT IMPULSE ENGINES

**TIP:** To light this part, carefully thin the plastic of the warp diffraction crystal (the dome) so that it transmits more light. Also, remove the area shown on kit part 7, leaving a small lip to hold the photoetch pieces.

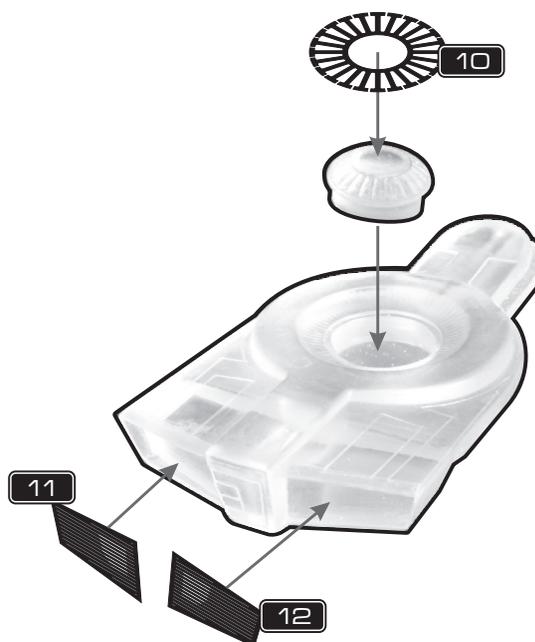
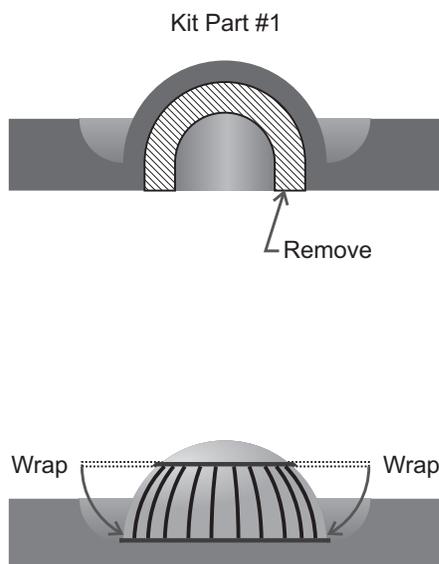
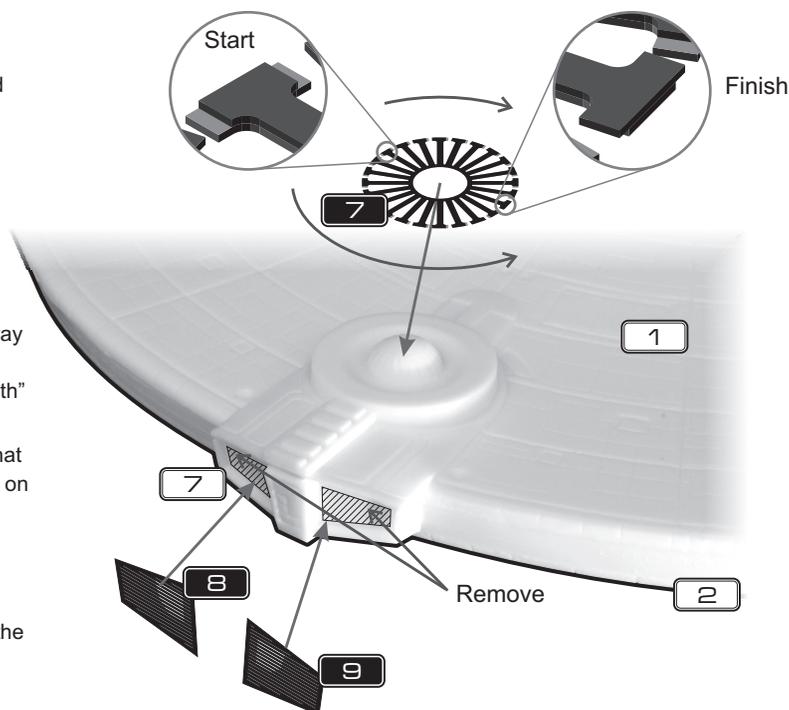
Attach etch part 7 over the warp diffraction crystal. Glue the center ring in place and let the glue set. Now, working your way around the ring, glue down each "wing", starting with the one labeled "start" in the diagram to the right. Notice how the "teeth" at the end overlap.

Glue etch parts 8 and 9 into the recess of etch part 7. Note that the impulse engines are not symmetrical, so the parts only fit on the side assigned to them.

#### DLM PARTS DLM06.4

Attach etch part 10 to the crystal included with the DLM set. Center the crystal and glue the center ring in place. After the glue has set, wrap and glue each wing down to the dome of the crystal.

Mount etch parts 11 and 12 in the recesses of the impulse engines. Note that the impulse engines are not symmetrical, so the parts only fit on the side assigned to them.

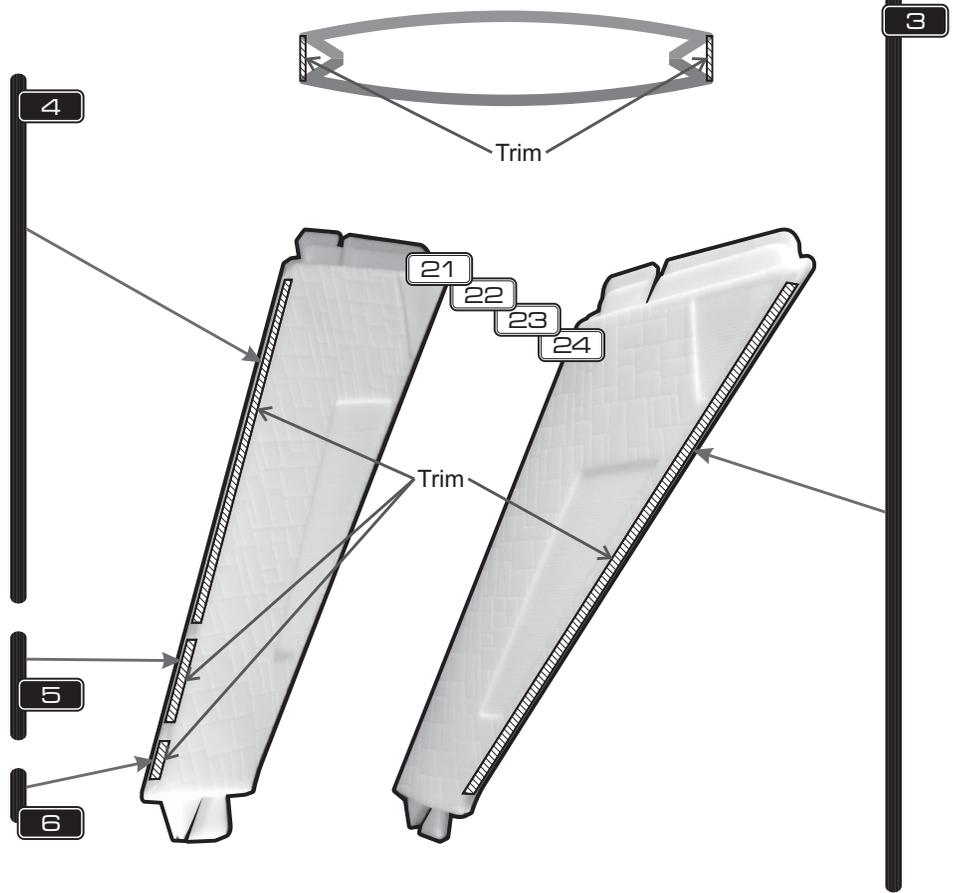


## WARP ENGINE PYLON VENTS

The vents should sit flush to the edge of the pylons and are slightly wider than the trenches provided in the model.

Using a sharp blade (or the method of your choice), remove a small amount of material from the inside edges of the trenches. You will want to test fit the vents (etch parts 3 through 6) often to ensure a proper fit when put in place.

After you have assembled the pylons (including any wiring for lighting the warp engines if you are doing that), attach the new vents in place.



## WARP ENGINE GRILLS

**NOTE:** These grills work best with the original "smoothie" release of this kit, or with the aftermarket grills from DLM (p/n DLM08).

The half-etched portions of each photoetched piece should be in contact with the kit.

### STOCK KIT ENGINES

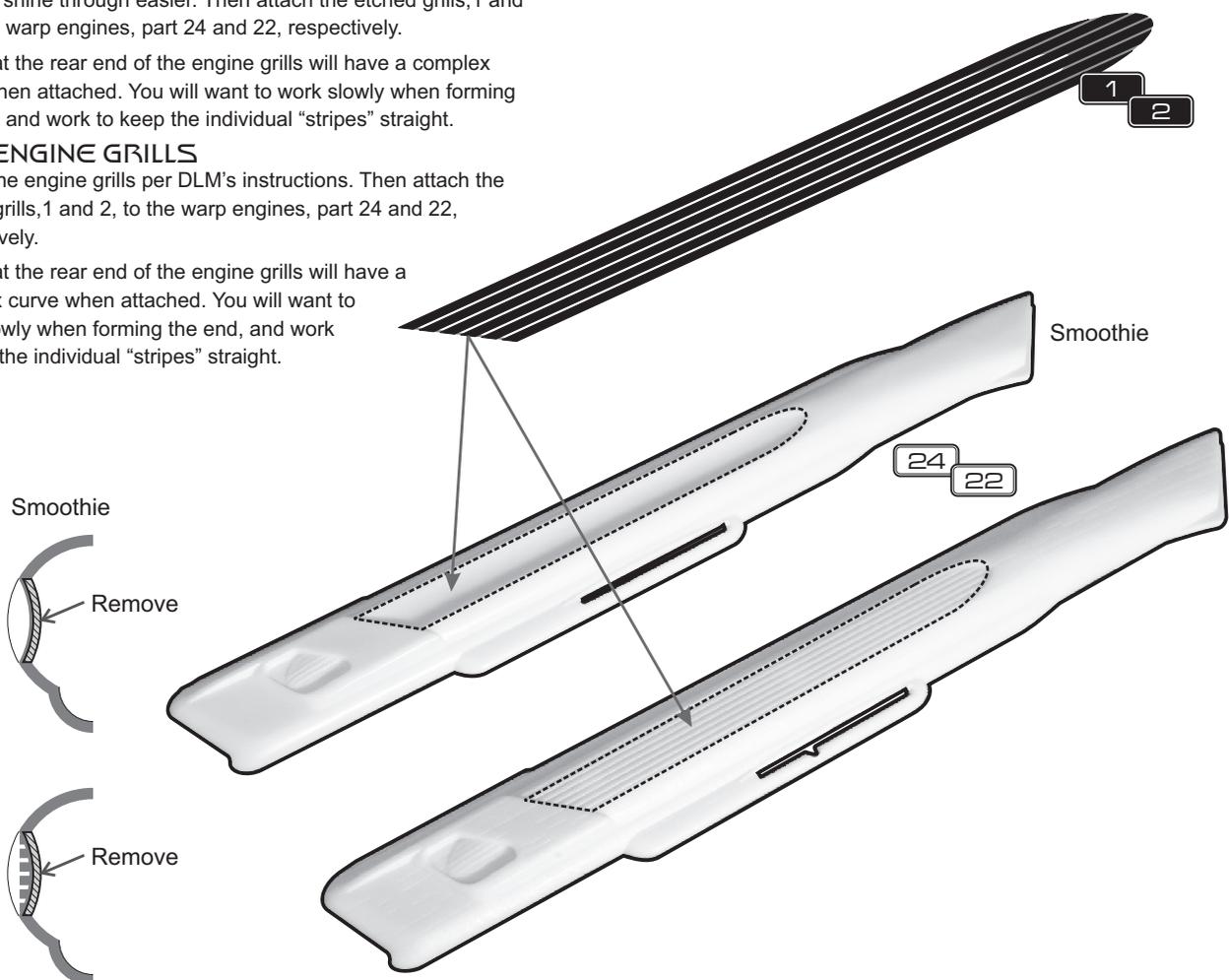
If lighting, thin the area on the backside of the engine grills so that light will shine through easier. Then attach the etched grills, 1 and 2, to the warp engines, part 24 and 22, respectively.

Note that the rear end of the engine grills will have a complex curve when attached. You will want to work slowly when forming the end, and work to keep the individual "stripes" straight.

### DLM ENGINE GRILLS

Attach the engine grills per DLM's instructions. Then attach the etched grills, 1 and 2, to the warp engines, part 24 and 22, respectively.

Note that the rear end of the engine grills will have a complex curve when attached. You will want to work slowly when forming the end, and work to keep the individual "stripes" straight.



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