TOS VIPER
PHOTOETCH SET

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INTRODUCTION

Thank you for purchasing ParaGrafix's photoetch set for the Moebius Models TOS Viper kit. We have tried to make this set as easy to use as possible, but if you unsure of how to work with PE, please see our video instructions at: http://www.paragrafix.biz/video-instructions-1.asp

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 may need a pair of razor blades** or a specialty tool such as PhotoFold from ParaGrafix.

* We prefer a #17 Xacto chisel blade.

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

Key

Kit part (plastic): I

Photoetched part: I

Backlight Film: A

Raised 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: sanding, filing, chiseling. Note that in most cases the surface does not need to be perfectly smooth as the photoetched part will replace the "lost" kit detail.

Lighting Options

Unless otherwise noted, you can prep areas for lighting by removing plastic from areas where there are through holes in the photoetch. You can then backlight the photoetch. For best results, we suggest using Micro Kristal Klear from Microscale Industries (www.microscale.com) to fill the through holes. Use MKK even if you will be using the ParaGrafix decals PGX114, as this will give the decals some support. Alternatively, MKK can be tinted for different colored lights.

Installation Parts Order

The installation steps are not in any particular order. You can complete them as you see fit to complement your kit construction order.

Cockpit

Remove Detail

Remove the raised surface detail from the cockpit tub (kit part 9). Note that all surfaces will be covered with "plating" (etch parts 1, 2, an 3) so you don't have to make sure the surface is perfectly smooth.

Cutout Lighting/Film Holes

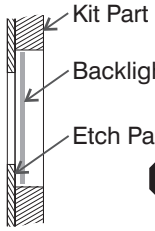
Using etch parts 1, 2, and 3 as guides, mark the position of the through holes. Note that you'll want to make the holes in the kit larger than those in the etch to allow the backlight films to rest against the back of the etch.

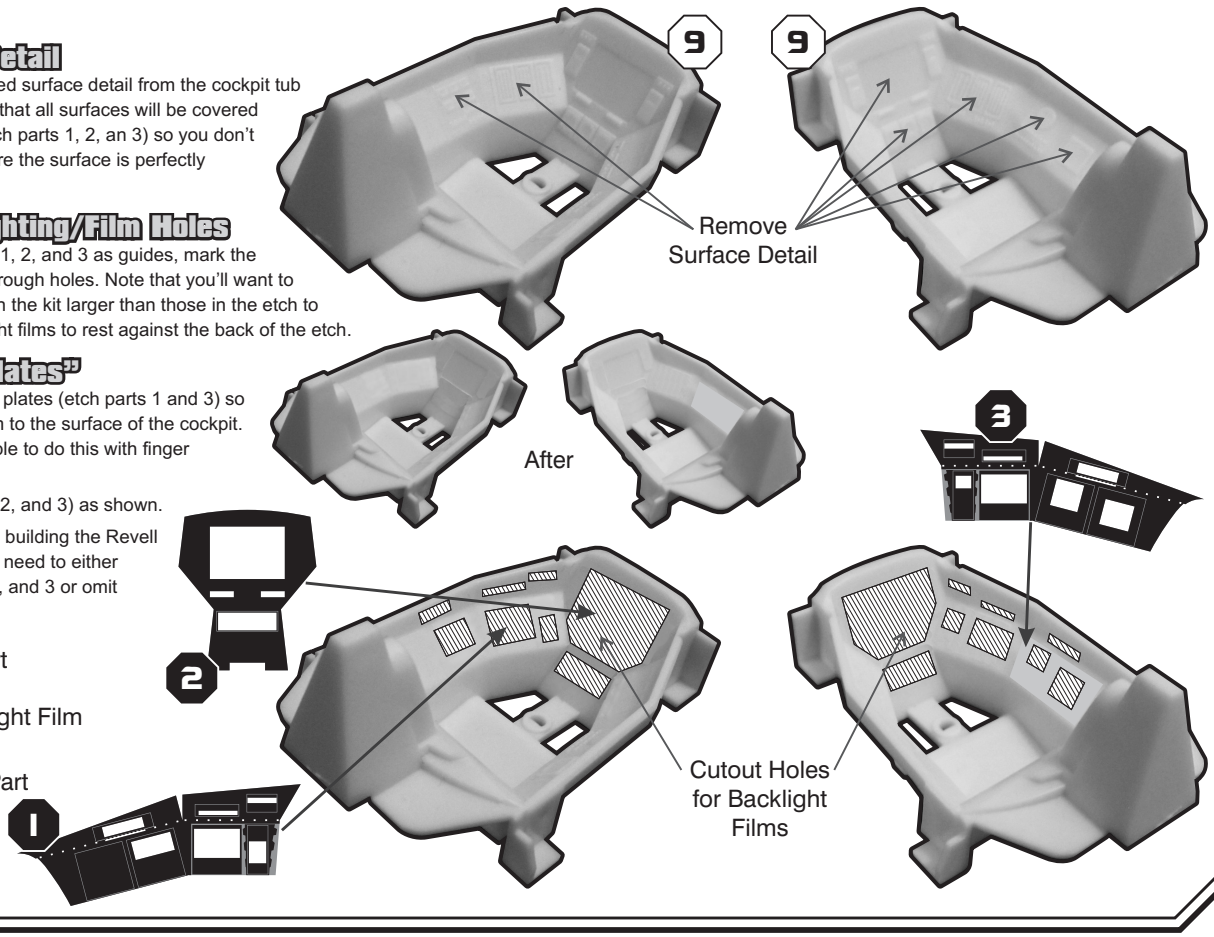
Mount "Plates"

Slightly bend the plates (etch parts 1 and 3) so that they conform to the surface of the cockpit. You should be able to do this with finger pressure.

Attach plates (1, 2, and 3) as shown.

NOTE: If you are building the Revell Viper kit, you will need to either modify parts 1, 2, and 3 or omit them.



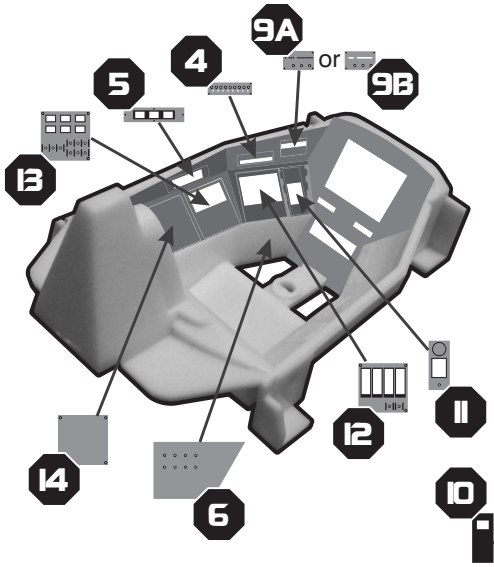


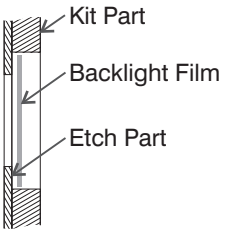
Cockpit (cont'd)

Mount Control Panels

Mount the etch control panels to the plates as shown at right, making sure to align with the etched lines in the plates.

Überdetailing: There are many small hexagonal nuts on the various control panels. These are the bases for switches on the full-sized set. Add 1/32" (0.8mm) lengths of 0.01" (0.25 mm) rod to each nut.





Switch "nut"

Paint the Panels

You will want to paint the interior before attaching the backlight films. This will eliminate the need to mask them (which could cause them to pop out).

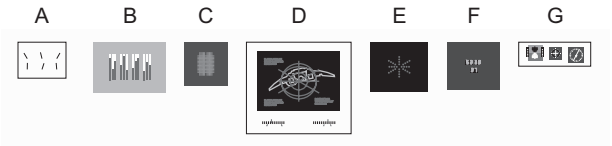
Mount the Backlight Films

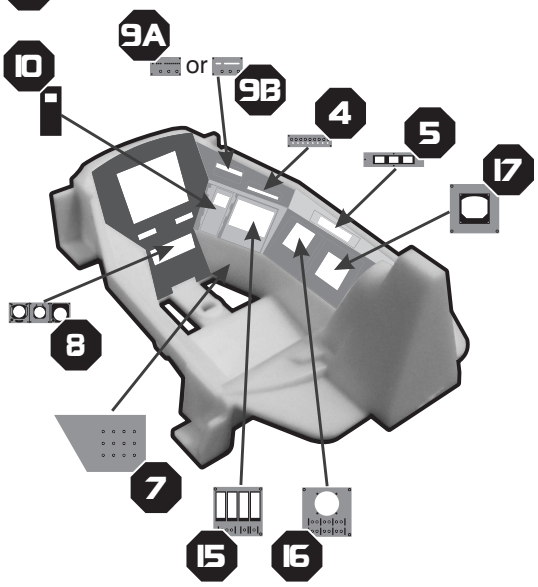
Cut the individual film pieces out, then attach to the backside of the etch using Micro Kristal Klear, Testors Clear Parts Maker, or white glue.

Use the table at right to match up the films and their corresponding etch parts.

NOTE: If you are building the Revell Viper kit, it may not be possible to include all backlighting films.

Film	Etch Part
A	13
B	12 & 15
C	11
D	2 (main display)
E	17
F	16
G	8





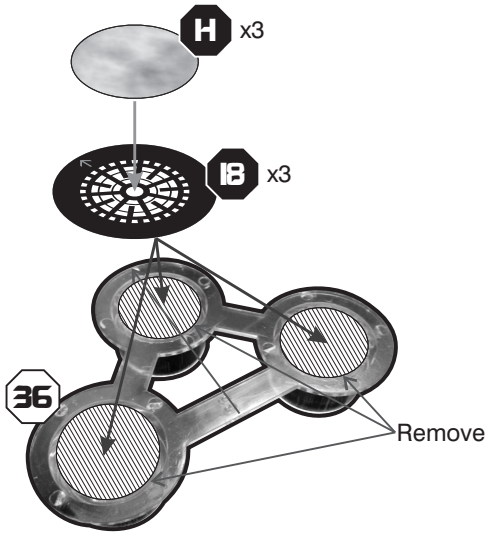
Engine Baffles

(Optional)

If you are lighting your engines, the baffles (etch parts 18 and films H) will be easier to use than trying to paint the baffles deep in the recesses of kit part 36.

Remove the kit baffles from part 36 and smooth down the backside of the part. Attach etch parts 18, making sure that the arrow is a) visible on the backside and b) aligned vertically on kit part.

Mount the films (H) to the backside of 18 to help diffuse the lighting.



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Thank you to Frank Winspur and Dave Metzner of Moebius Models for making such a great kit, and for their help and encouragement during the development of this add-on set.

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