

# discovery XD-1 cockpit and airlock photoetch set

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PGX210

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## INTRODUCTION

Thank you for purchasing ParaGrafix's photoetched cockpit and airlock for Moebius Models' kit of the USS Discovery from Kubrick's classic "2001: A Space Odyssey". This set is fairly easy to assemble, but some experience working with photoetched parts is suggested.

### 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 PhotoFold from ParaGrafix.

\* We prefer a #17 Xacto chisel blade and a glass cutting board, or similar hard, unyielding material.

\*\* Razor blades are extremely sharp. Handle with care.

### Lighting Options

For best results, we suggest using Micro Kristal Klear from Microscale Industries ([www.microscale.com](http://www.microscale.com)) to fill the through holes. 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.

### Key

Kit part (plastic):

1

Photoetched part:

1

## Airlock Door & Controls

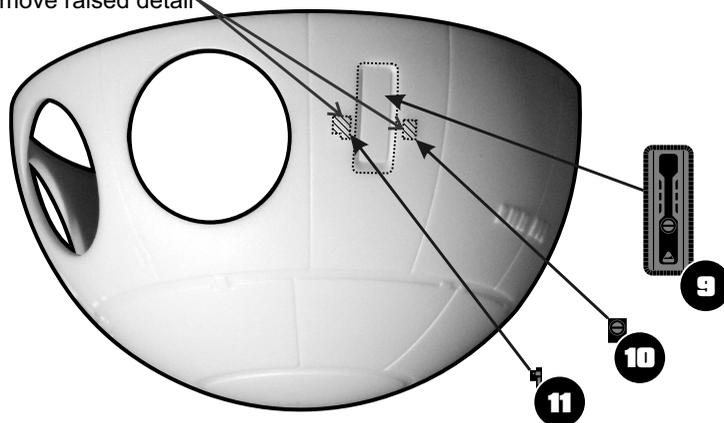
**NOTE:** Do not install the airlock door if modeling the airlock open.

Remove the raised detail for the controls on either side of the door and replace with etch parts 10 and 11.

Pre-bend the door using the hull as a template. You may find it easier to do this if you anneal the metal first.

Glue the door piece into place. Note that it does not go all the way down into the kit's door opening.

Remove raised detail

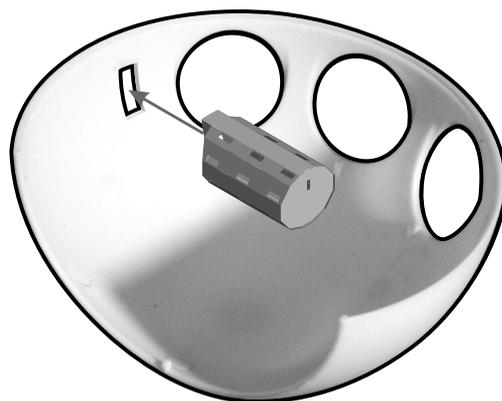
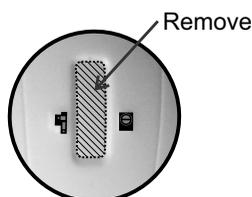
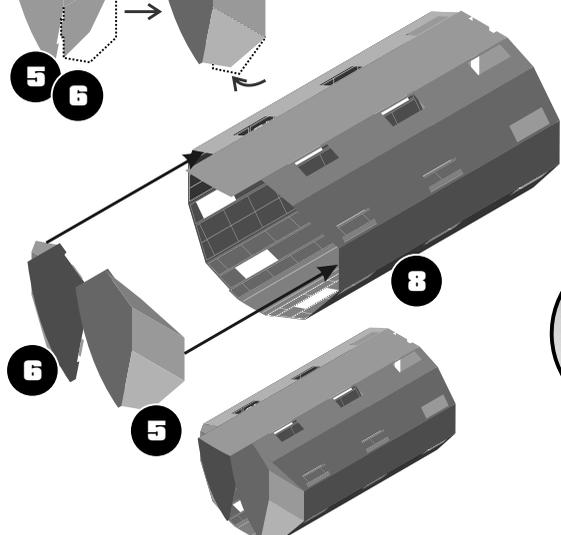
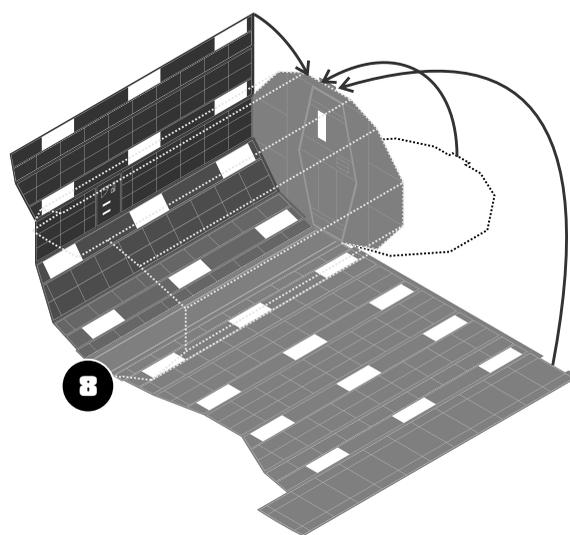
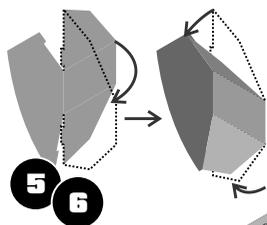


## Airlock Interior

Fold the door panel (12 sided section) or etch part 8 up, then fold each wall around it to complete the cylinder.

Fold the two end walls, 5 and 6, as shown and attach to the cylinder.

Remove the airlock door and glue the assembly in place. We suggest adding epoxy or 2-part modeling putty (such as Aves) to help reinforce the joint.



# Cockpit Assembly

## Subhead

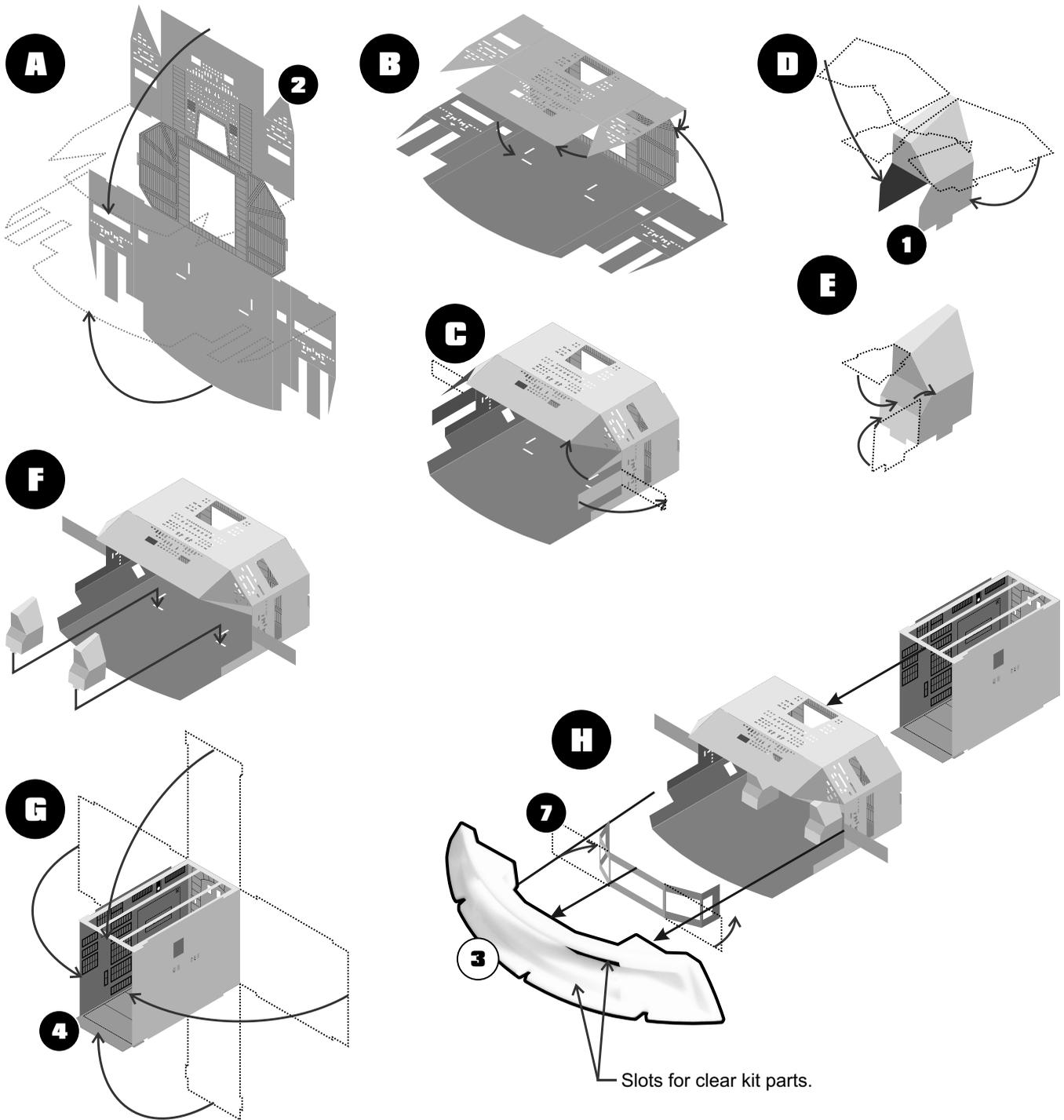
Fold and adhere edges of etch part 2 (main cockpit) following the lettered sequence below. Then fold two command chairs (part 1) and mount to the slots in the cockpit floor.

Fold up the HAL brain room antechamber (etch part 4) and attach to the cockpit assembly using the engraved centerlines on both their floors (underneath) as an alignment guide.

**TIP:** A folding tool to pair of razor blades will help with the initial bending of the cockpit window frames, etch part 7.

**NOTE:** The photoetched cockpit window frames follow the outline used for *2001: A Space Odyssey*. The clear kit part (8) more closely resembles the windows as shown in *2010: The Year We Make Contact*. If using the photoetched frames, fill the slots in kit part 3 with some thin styrene to make up for the lost plastic of the clear kit windows.

Fold etch part 7 as shown so that it follows the angles of kit part 3, then glue in place so that the etch is centered vertically. Attach the completed cockpit assembly centered on the window piece. The "wings" on the side of the cockpit help ensure proper alignment.

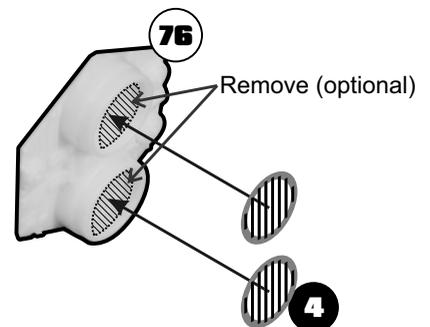


# Thruster Exhaust Panels

## Repeat Three Times

**NOTE:** If lighting the engines, remove the plastic from kit part 76 as shown. Otherwise, this can be left in place.

Insert etch parts 3 into each of the engine panels as shown. Be sure to orient them so that they are vertical when the two engine exhausts are also vertical.



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Many thanks to Frank Winspur and Dave Metzner of Moebius Models for providing a preproduction copy of the Discovery kit so that we could develop this photoetch set.

Special thanks to Adam Johnson both for his *2001: The Lost Science* books, which were a wealth of fantastic references, and for his help detailing items not covered in them.