Required Tools:
Airbrush
Hobby knife
Sharp tweezers
Scissors
Permanent Marker

Recommended Tools:
Wax Paper (required for 5 color)
Nitrile gloves
Red, Green, Blue & Yellow Highlighters
and Patience 😊

I am always happy to answer any questions, please do not hesitate to e-mail.
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Enjoy your build & happy modeling!
Hi & welcome to the journey that is the 1/350 Refit/A. Before we begin with the masks set lets go over a few basics.

First this is a very complex mask set. There are 12-16 sheets of masks, with multiple masks per page. I’ve done my best to keep the sections of the model together, but some sheets will have masks for more than one section & some sections will be on more than one sheet. With all of this in mind, I highly suggest taking the model section by section when masking & painting. So, when working on the saucer, only think about & work on the saucer. Trust me, I know it’s easy to get starry eyed & start dreaming about how the rest of the ship will look. Don’t try to work ahead or jump around, start on one section, finish it, mask it off completely & move on to the next. Your brain will thank you in the end!

Next let’s talk about painting. An airbrush is definitely required for this mask set if you’re doing a 5 color pattern. Hand painting is possible on some of the easier mask sets like our 1/350 TOS Ready to Apply Markings set, or maybe if you’re really patient & doing a 2 color pattern, but not for the 5 color pattern. Also about spray cans, they will work fine for the 2 color pattern, but are not recommended for the 5 color. There are multiple over lapping colors & masks that are re-used. Which means paint must be applied in thin even layers.

I have a few suggestions on airbrush settings. Keep the pressure between 10 to 20psi, & properly thin the paint. It should have the consistency of low fat to skim milk & the test shots should look even, without spattering. A good way to test this is, turn the pressure down to 10-12psi, & take a few test shots. If there is spattering, gradually increase the pressure a couple of psi at a time, until the spattering stops. If you start to go above 20psi, the paint should be thinned a little more. When spraying, keep the coats very thin, & try to avoid pooling of any kind. Remember the idea is to change the color & provide the illusion of plating, not create actual plating.

Another fairly important factor is the paints & thinners themselves. Most paint manufacturers develop their products only to work their own products, meaning Testors paints with Testors thinners. When it comes to paints & thinners I rarely mix manufacturers, & only after extensive testing. Same thing goes for the paints, when doing multiple color overlays & re-masking painted sections. You want to make sure the paints are compatible & properly bond. Paint failure/de-lamination/lifting can occur for a host of reasons, but the main one is product incompatibility. One safe combo I’ve found is Testors MM enamel for base coats & opaque colors, then Alclad II lacquer with PearlEx pigments for the “Aztec” interference colors. For instructions on mixing the pigments read page 9 – 1.

Main point is, test, test, test, you want the quality of your work to be maintained for years. Also, always test on scraps of the same type of material as your model. In this case the material is styrene. Pick up some cheap sheet styrene from a plastic supplier like TAP PLASTIC here in the US. Plastic suppliers usually have scrap bins, & the styrene is very cheap. If you’re not close to a supplier, still pick some up at the hobby store, the extra few bucks will be worth it in the end.
How the instructions work is they are broken down into sections of the model, with placement diagrams for the masks & demonstrations of techniques. At first you will be shown a placement diagram for a section along with a step by step process for a technique, when the technique is needed again, there will just be a placement diagrams along with notes stating the required techniques. There will also be instructions for doing a 2 or 5 color pattern within each section.

Our first section we’ll walk through is the saucer. On the upper saucer I’ll show a step by step process for prepping & applying the masks, along with using the re-useable templates. These techniques will be used throughout the model. Let’s get started!
Upper Saucer
Unpack the set. It should contain:
12 - Gray mask sheets
1 - 15 sheet pack of transfer tape
1 - Yellow kabuki tape sheet
1 - Application tool
5 Color will have 16 Gray sheets

Find the 3 upper saucer sheets.
Cut down the “pie slice” sheets into sections of 2 slices & Remove the border material.

“Weed” (remove unwanted material) into A & B patterns & mark A & B somewhere on the actual mask.
NOTE: The saucer “pie slices are the only masks the will be weeded. Only remove the border on all other masks!

Lay 2 sections of “pie slices” on the transfer tape & mark the tape. Make your marks small. Markings on the transfer tape can easily rub on to the model.

Bend the corner of the transfer tape pack to separate the sheets

Cut one sheet in half

Align the tape over the 2 sections of “pie slices”. Allow the tape to bow in the middle & rest on the mask. Don’t lay the tape down fully until the alignment is good

Once the tape is applied, smooth it down. Start in the middle with both hands & sweep out toward the edges.

After smoothing the tape down. Go over the masks with the application tool to remove any remaining air bubbles.

Align the tape over the 2 sections of “pie slices”. Allow the tape to bow in the middle & rest on the mask. Don’t lay the tape down fully until the alignment is good.

Once the tape is applied, smooth it down. Start in the middle with both hands & sweep out toward the edges.

After smoothing the tape down. Go over the masks with the application tool to remove any remaining air bubbles.

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Applying the masks
This technique is used for all of the masks in the set, except for the reusable templates.

Separate the A & B masks.

Dry fit the masks to get an idea of how they go on the model. Do this with all masks.

Lay the masks tape side down. Hold the mask in place with tweezers & peel up one corner of the liner. If any masks come up, roll the liner forward & press the mask back down.

Fold the liner back on to itself & walking along with your fingers “roll” it backward. Again if any mask pieces come up, just roll the liner forward & press the mask piece down.

Start with the bow centerline. Align the top of the “E” on the mask with the inner most concentric grid ring & down the centerline. Tops of the “E”s will line up with all of the concentric rings. Do not lay the mask down until the alignment is good.

After smoothing the tape down. Go over the masks with the application tool to remove any remaining air bubbles. Take care to stay on the tape.

To remove the tape gently use the tool or tweezers to lift one corner of the tape & roll it backward just like the liner. Again if any mask pieces come up, just roll the tape forward & press the mask piece down.

Apply an A & B mask on either side of the centerline & reapeat the pattern

This is how the saucer should look.
Applying the masks

Cut these aztec masks from the sheet. Do not weed them, only remove the borders & apply transfer tape. After taping trim the masks surrounding the B/C deck as close to the edge as possible. Those masks fit tight into a corner & any other masks that fit into corners should also be trimmed close to the edge after taping. Do not apply these masks yet!!

**Here’s where it’s time to choose your own adventure.**

**Painting the 2 color pattern only requires the v2 mask set.**

**Painting the 5 color requires either the 5 color “Master Set”,**
**or the v2 set along with the 5 color “Add on Pack”**

If you’re doing a 2 color pattern, follow the directions under the 3 pictures below.

If you’re doing a 5 color pattern, skip to the single picture below.

**2 COLOR**

Remove every other mask from the rim, & the ring surrounding the B/C deck

**5 COLOR**

Do not apply the masks yet!! Instead mask the rim, & the ring surrounding the B/C deck. Paint your color for the main aztec. Allow the paint to dry. Then carefully remove the masks with tweezers. Remove the ring & rim masking

Continue on to page 1 - 5
**Reuseable random templates & 5 color upper saucer**
This technique is used for the upper & lower saucer

**Required Tools:**
Wax Paper  
Permanent Marker

If you are doing the full 5 color pattern. There will be 2 sets of templates. One for the upper saucer & one for the lower. Each template sheet will look like the corresponding mask sheet. No transfer tape should be applied, & when used gently, should be usable 8-10 times each. Also each template is completely unique, with no repeating elements.

For 5 color masks like the ring around the B/C deck, the masks will be applied un-weeded. Then pieces of mask will be removed, a color painted, the pieces reapplied, the next color removed, & painted. This process will be repeated until the level of detail desired is achieved. Trust me it’s not as tough as it sounds.

Remove only the border

Gently remove the templates & apply all 8 to 1/2 of the saucer at once. Do not use the application tool, only smooth out with your hands

Mask off the other 1/2 of the saucer.

Remove a few of the masks from the ring & rim, apply them to the wax paper & mark them with a permanent marker. This will let you know that a color is already painted there when the pieces are reapplied later. Also mark a few pieces still on the model. These will act as blank spaces between colors

**Take care to only mark in the middle of the mask pieces. Any ink that gets along the edge can be carried on to the model by the paint.**

Paint your first interference color.
**Reuseable random templates & 5 color upper saucer**

This technique is used for the upper & lower saucer

For best results don’t let the templates overlap on the wax paper & either keep the wax paper clean, or use a new piece after each color.

For the next colors, repeat the whole process each time mixing up the templates to acheive a random pattern. Paint all of the colors on 1/2 of the saucer before painting the other 1/2.

**Reapply the ring & rim pieces**

**Wash your hands before removing templates, or wear gloves to keep the templates clean.**

Using tweezers gently lift the top of the template.

Using both hands gently work the mask off the model & apply to wax paper.
Lower Saucer

Use all of the same techniques learned on the upper saucer, for both 2 & 5 color patterns.

Do not weed before applying.

Weed into B & A patterns before applying.

5 color random templates

Do not weed before applying.
Secondary Hull “REFIT”
REFIT & -A
Prep masks for use.
Do not weed these masks before applying.

Masks should be cut along their grid line separations, for easier application. Mark the sections, and their up/down orientation. It is very easy to get these masks mixed up or flipped. Each mask will fit perfectly in its section.

The separation lines can be very hard to see. Dry fit the strip & use the grid line to help find the separation lines.

Dry fit the masks to get an idea of how they go on the model. Do this with all masks.

Align the sections with the models centerline.

There are many small pieces of mask in these sections. When applying the masks, it may be necessary to press pieces down while removing the transfer tape.

If pieces come off completely, just put them back in place with tweezers.

These belly sections have small cuts that align with the models centerline. After applying tape, mark these cuts to aid with alignment. Do not weed these masks before applying.

After applying tape, cut out the phaser squares, & strobe circle.
Secondary Hull “REFIT & -A”

Here’s where it’s time to choose your own adventure again.
If You’re doing a 2 color pattern, follow the directions under the first picture below.
If You’re doing a 5 color pattern, skip to the second picture below.

2 COLOR

REFIT
Use the coloring book as a guide to remove an interesting pattern.
-A
Remove all of the small squares
REFIT & -A
Mask off the surrounding areas & paint the sides.
Continue on to page 3 - 5

5 COLOR

REFIT
Color the patterns in the coloring book & use it as a guide to keep track of your color map.
Continue on to page 3 - 4
-A
Mask off the surrounding areas & paint the first color.
Continue on to page 3 - 5
Secondary Hull “-A”
Secondary Hull “REFIT” 5 Color

**REFIT**
Mark off the pieces that will be blank spaces.

**REFIT**
Remove the first color (blue here) & Mark off the pieces on the wax paper. It helps to arrange the pieces similar to the pattern.

**REFIT**
After all of the masks are removed. Paint the first color.

**REFIT**
After painting the first color, reapply the masks.

**REFIT**
Remove the masks for the next color.

**REFIT**
Repeat the process until satisfied with the number of colors & amount of detail.
Secondary Hull “REFIT & -A”

**Rib Sections**
These apply the same for both the “Refit” & “-A”
Utilize the application techniques learned in the previous sections.
Do not weed these masks before applying & go very slowly when applying. Try not to let them touch the model surface until you’re ready to press them down in place.
These are fairly difficult masks. If you feel like cutting them into smaller pieces. Cut down the middle of one of the larger sections, not along the thinner rib lines

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**2 COLOR**
Apply the masks, weed the thin rib lines & a few of the larger center sections.
Mask the surrounding areas & paint the model

**5 COLOR**
Remove & paint the ribs last.
Use the remove & reapply mask technique for painting the larger center sections, until satisfied with the colors,
Reapply all of the larger center masks, remove the ribs & paint them last.

When applying start here. Align this edge with the centerline, & slowly wrap the mask around the curve & down the side. Try not to let these masks touch the model surface until you’re ready to press them down in place. Dry fit a few times for practice.

Align these edges
**Secondary Hull “REFIT & -A”**

**Belly & Tail Sections**
These apply the same for both the “Refit” & “-A” & work just like the side masks. Utilize the application techniques learned in the previous sections. Do not weed these masks before applying & go very slowly when applying. Try not to let them touch the model surface until you’re ready to press them down in place. The belly masks can be difficult. If you feel like cutting them into smaller pieces. Dry fit the masks & use the grid lines to help find the separation lines.

**2 COLOR**

**REFIT**

Belly -
Apply the masks, use the coloring book as a guide to remove an interesting pattern, just like the sides.

Tail -
Free hand air brush a few streaks of the aztec color down the tail. Mask off before painting the Belly

Mask off the tail & surrounding areas & paint the Belly. Continue on to page 4 - 1

**-A**

Belly -
Apply the masks, use the coloring book as a guide to remove an interesting pattern, similar to the sides

Tail -
Apply the tail mask & remove all of the small squares

Mask off the surrounding areas & paint the Belly & Tail.

Read page 8 - 1 for instructions on how to paint the additional panel detail. Then continue on to page 4 - 1

**5 COLOR**

**REFIT**

Belly -
Apply the masks, use the coloring book as a guide to keep track of your color map. Use the remove & reapply mask technique for painting the Belly, just like the sides

Tail -
Free hand air brush a few streaks of different aztec colors down the tail. Mask off before painting the Belly

Mask off the tail & surrounding areas & paint the Belly. Continue on to page 4 - 1

**-A**

Belly -
Apply the masks, use the coloring book as a guide to keep track of your color map. Use the remove & reapply mask technique for painting the Belly, just like the sides

Tail -
Apply the tail mask, remove all of the small squares.

After painting the first color, mask off the tail completely.

Mask off the tail & surrounding areas & paint the Belly.

Read page 8 - 1 for instructions on how to paint the additional panel detail. Then continue on to page 4 - 1

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Deflector & Strongback

These apply the same for both the “Refit” & “-A” & work just like the side masks. Utilize the application techniques learned in the previous sections. Do not weed these masks before applying & go very slowly when applying. Try not to let them touch the model surface until you’re ready to press them down in place. Dry fit the masks to test how they go on.

When painting these sections, start with the color you would see the most of as your base color. Apply the masks, & use the technique for the 5 color secondary hull sides. Remove masks over areas that will be the same color & save them on a piece of wax paper. Paint the color, & reapply the masks & repeat until all colors are painted. Save the fine lines & really small parts for last, they’re fairly difficult to reapply. There are 2 copies of each section, just in case.
Neck & Torpedo Launchers

Before starting, I highly suggest painting the neck & torpedo launcher as separate sections. Also the stripe on the neck must be painted it's color before applying the masks.

These apply the same for both the “Re/f_it” & “-A” & work just like the “Re/f_it” side masks. Utilize the application techniques learned in the previous sections. Do not weed these masks before applying & go very slowly when applying. Try not to let them touch the model surface until you’re ready to press them down in place. Dry fit the masks to test how they go on.

**2 COLOR**
**REFIT & -A**

Apply the masks, use the coloring book as a guide to remove an interesting pattern, just like the sides.

Mask off the surrounding areas & paint.

**2 COLOR**
**REFIT & -A**

Apply the masks, use the coloring book as a guide to keep track of your color map. Use the remove & reapply mask technique, just like the sides.

Mask off the surrounding areas & paint.

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Paint this stripe before applying the neck mask
Pylons

These are exactly the same for both the “Refit” & “A”
Utilize application techniques learned in the previous sections.
These masks are weeded before applying. I know right, after all this time something that gets weeded first.
Also these masks are pretty easy to apply. Still, dry fit the masks to test how they go on.

First, weed out the lightning bolt pieces, apply the transfer tape, then apply the masks.

2 COLOR
Mask off the surrounding areas & paint.
Continue on to page 7 - 1

5 COLOR
This will be the first of three colors.
Mask off the surrounding areas & paint.
Continue on to page 6 - 2
Pylons 5 Color
These next two sets work exactly like the first set. Altogether they make a 3 color pattern.
Mark the masks so they don’t get mixed between the 2 sheets
Align the masks with the first color, apply the masks, & paint the second color
Same with the third color,
**Nacelles**

These are exactly the same for both the “Refit” & “-A”
I highly recommend doing the nacelles one at a time, & in sections.
Do Not weed these masks before applying.
Many of these masks fit into tight corners. After taping trim all
of the masks as close to the edges as possible.

**Top**
Start at the top. These top masks work just like the saucer rim masks for the 2 & 5 color instructions.
Apply the masks, mask off the sides & paint the top. After painting the top is finished, mask it off & move on to the sides.

**Side**
I suggest one side of one nacell at a time.
Apply the masks to 1/2 of one nacelle. Mask off the other half after aztec masksing.
Except where noted the side masks follow the same painting rules as the top masks.

Treat like secondary hull masks

Treat like Rib masks. Apply masks starting on the upper centerline
Additional Detail Masks & 5 Color “-A”

Throughout the set you will find rectangular masks with random patterns & bars. These are reusable masks for creating additional detail around the model & the random panel effect for the “-A”. If the adhesive is kept clean, & paint coats are thin. Each mask can be used at least 10-12 times.

2 COLOR

5 COLOR Has 4 additional panel masks
Mixing PearlEx With Alclad II Lacquer

**TOOLS:**
Pipette or syringe with ml markings  
1/16-1/8 tsp measuring spoons  
1/2 oz clean bottle  
PearlEx pigment  
Alclad II Gloss Klear Kote

Measure out 1/16 tsp of the PearlEx & shave the excess on top with a hobby knife. That way you get an accurate measurement.

Put the PearlEx in the bottle first.

Add 12 ml of the Alclad.

Shake til thoroughly mixed. Make a few test shots & if the color looks too thin, add a bit more pigment.

Make sure to wipe off the measuring spoons & hobby knife in between colors. This will prevent cross contamination of your pigment colors.
.100" for masking the saucer sensor bands

.050" for masking curves & contours

.025" for masking the recesses on the nacelle warp grill

Small windows for the saucer & neck

Large windows for the E-Hull

Shuttle bay external detail

Shuttle bay beacon landing lights

Impulse engines

Impulse crystal masks

Photon torpedo tube masks

Planetary sensor window masks

Shuttle bay elevator masks
1. Apply mask 1 on the model & paint the red outline
2. Remove the center of the letters & apply mask 2
3. Mask #2 will cover the painted red outline & leave the center open
4. Paint black letters