



FLIGHTLINE GRAPHICS

Paint Masks - Stencils - Dry Rub Decals - Waterslides

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Large A, C & D Roundel by White First: Supplementary notes.

Painting A, C, & D roundels requires blue, white, and red to be applied so it is preferable to follow good practice and apply the lighter colours first. This supplementary instruction sheet gives guidance on how to paint roundels that have a dark outer colour with light middle circles using a minimum of paint.

In addition roundels over 375mm in diameter will have the large outer circle of the insignia supplied in 2 halves. This makes it easier to apply large markings over open frame structures, while also enabling us to produce them due to carriage width restrictions on my main cutter. This simulation shows the "A" roundel, but the C & D roundel follow the same procedure.

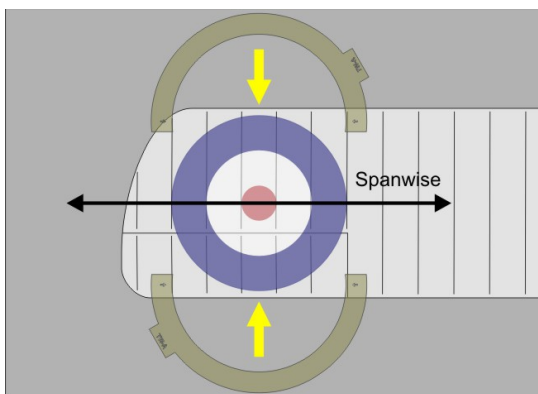
Read these instructions in conjunction with the basic instructions available online – [click here](#).



As the title for the procedure suggests the white colour is sprayed first.

Because the roundel is so large it is necessary to apply the first "A" mask in 2 parts to mark the full circumference of the insignia's outline.

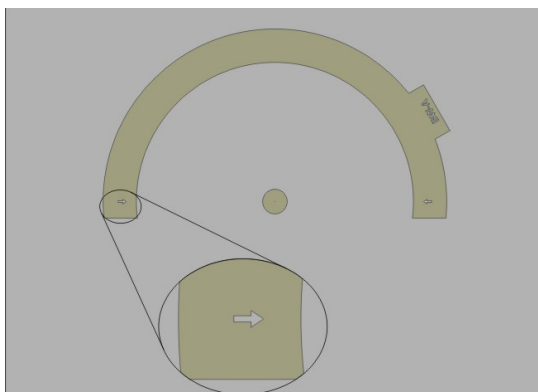
If your model has an open frame structure you will find this helps greatly as you can adjust the position of the mask slightly as you apply it to the surface.



Firstly, you must decide where the centre of the roundel is to be located on the wing before applying any masks. Take your time to ensure the radius fits correctly, particularly to the leading and trailing edges.

It is recommended to use a registration pin for this particular application (see basic instructions).

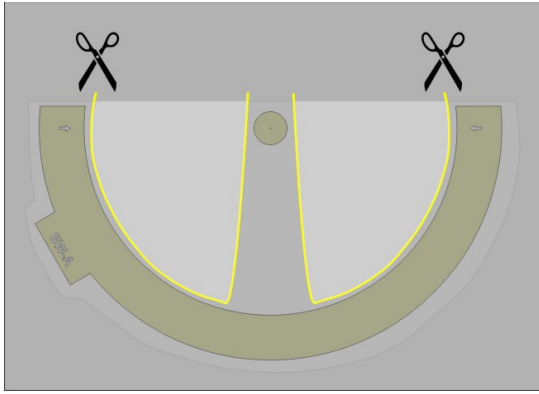
For best results you should add the 2 halves of the "A" mask "spanwise" so they overlap in the middle of the wing as shown opposite. This reduces the affects of the wings profile.



With your registration pin fixed down, add the first "A" mask. Locate the registration disk over the registration pin and apply the mask. If the insignia is going to cover an aileron you are better installing the mask towards the leading edge first (away from the aileron).

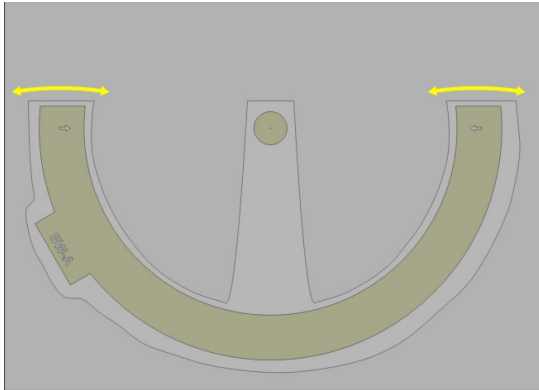
Each of the 2 "A" mask halves have arcs slightly greater than 180° of the circle. The exact half circle is indicated by the 2 small arrows cut into the mask. Try to make these masks as parallel to the spars as possible.

With the mask in position you can remove the application film.



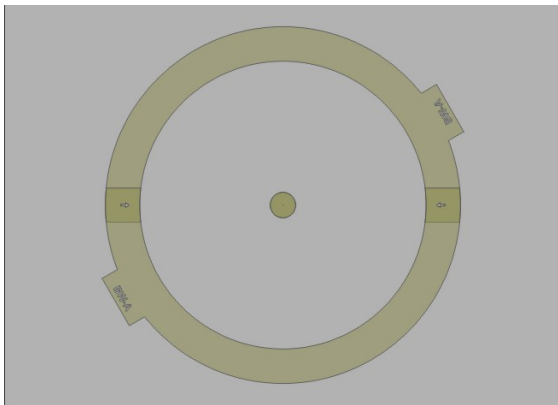
To apply the second mask you will need to have the ability to adjust the position of the overlapping sections.

Prepare the mask as shown here by cutting out the two sections of the carrier film and backing silicone paper. It does not have to be a perfectly cut line, but be careful not to cut into the actual paint mask material itself!



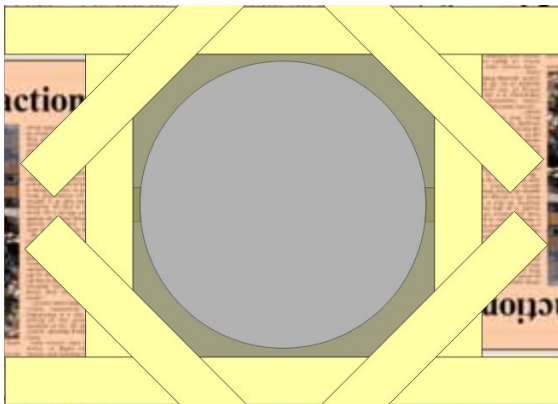
Once removed the anchor shaped mask can be applied with some flexibility to align with the first mask.

IMPORTANT: If the second mask is going to run over an aileron it is best to secure the aileron in the middle position so it can't move during this part of the process. Control wires, horns and other obstructions that can be removed should be!



Apply the second "A" mask over the registration point and try to overlay the arrows on both sides as best you can. It is not necessary to fight with the mask to get the arrows overlaying each other perfectly. As long as the overlap on the inside edge of the circle is smooth and continuous that is all that matters! Lift and lower the mask ends a few times to achieve a smooth continuous closed circle.

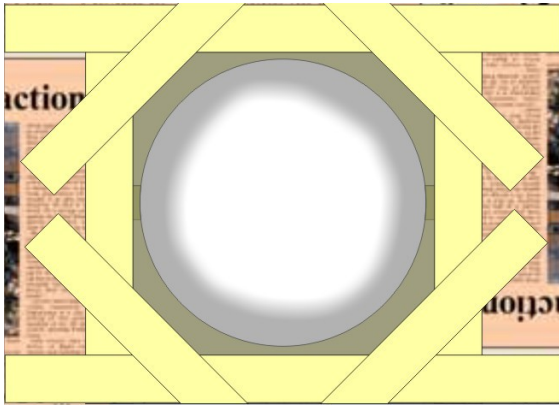
If there is insufficient movement to achieve alignment get the mask as close as possible before removing the application film. With the film removed you will get more movement in the mask to achieve the overlap



Use additional materials to protect the model from overspray, being careful to cover the arrows as shown.

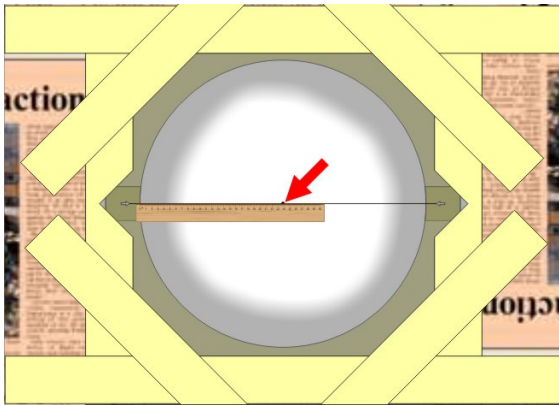
Also remove the registration disks and pin from the from the centre.

Clean the area if necessary.



Spray the White paint filling the centre and out towards the outer edge. It is not necessary to paint all the way out to the mask, just far enough to cover the disc of the "B" mask.

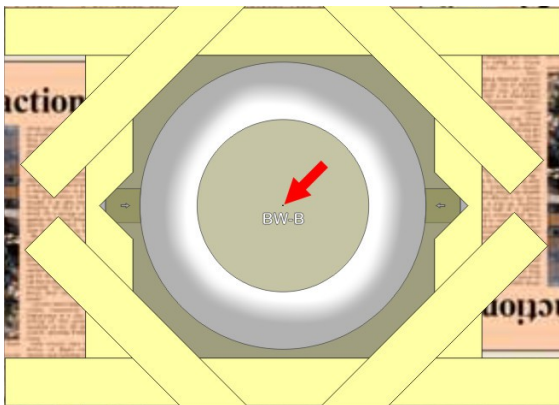
Do not remove the "A" masks or the general masking as it continues to be required for further steps.



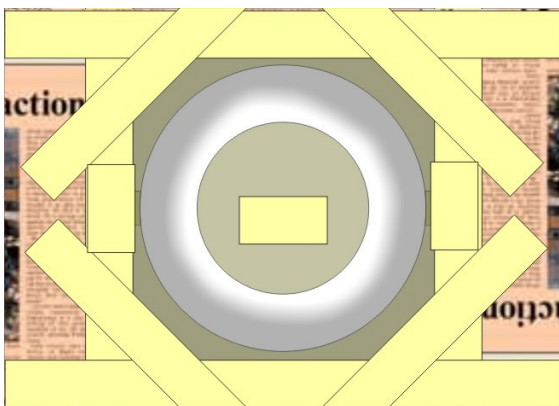
When the white paint has had sufficient time to dry cut back sufficient masking tape to expose the arrows cut into the "A" masks.

Using the points of the arrows as a centre line add a new registration dot in the centre of the circle. Any marker pen will do for this, I typically use black "dry wiper board" pens.

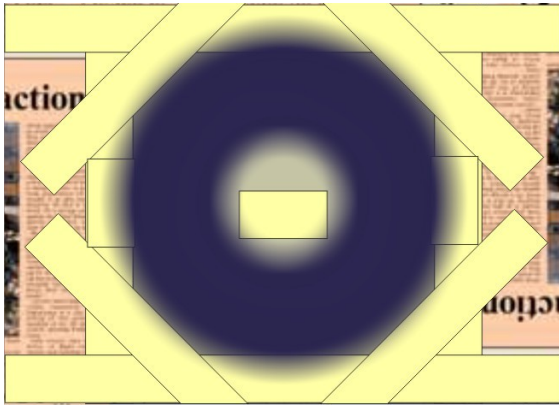
Don't add a line as shown opposite it's just there to indicate the centre line in the illustration!



Now add the "B" mask to the surface using the new registration dot as target for the registration hole at the centre of the "B" mask.

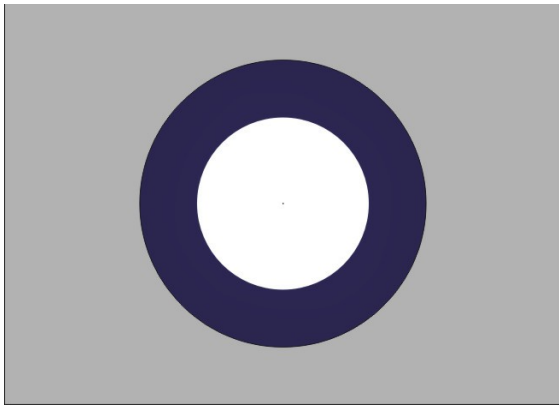


Re-apply masking to cover the registration dot, stencil identification letters, and the exposed arrows of the "A" mask.



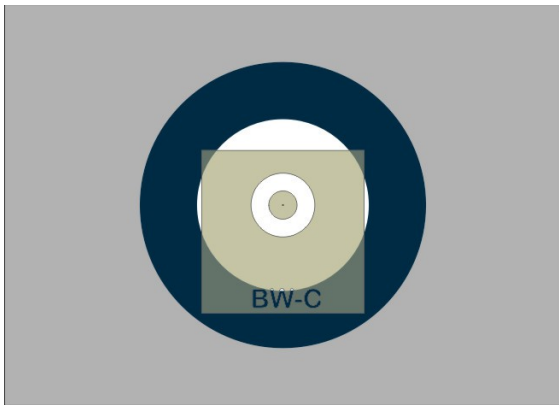
Spray the Blue paint on all of the exposed area.

Allow the paint to dry fully before you continue.



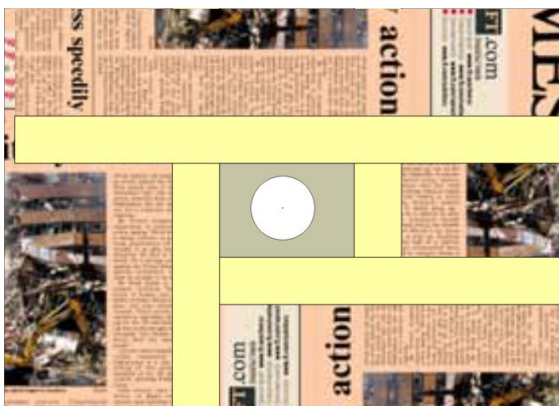
It is now safe to remove the "B" mask and if preferred all of the "A" masks with general masking.

Do not remove the registration dot you applied to the middle just yet!



Finally we can add the "C" mask to last colour.

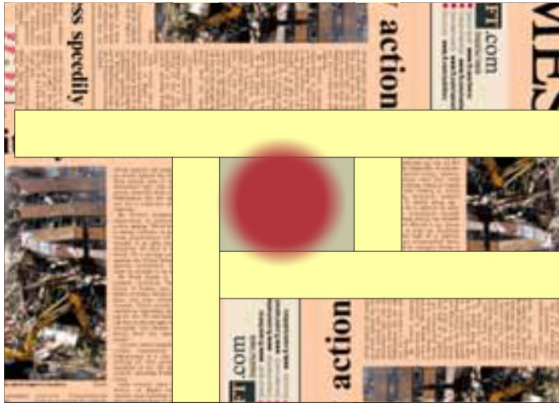
Once the mask is in position the central registration disc can be removed, and general masking applied to prepare for spraying the paint.



Finally we can add the "C" mask for the last colour.

Once the mask is in position the central registration disc can be removed, and general masking applied to prepare for spraying.

The registration dot can be removed or erased as much as possible. This is why I use dry wiper pens as the dot can be removed with a damp cloth.



Spray the Red paint on all of the exposed area.

Allow the paint to dry fully before you continue.



Remove all masks and general masking to reveal the finished insignia.

Remember this procedure works for the A, C & D roundels.

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Thank you.

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