

ROYAL AUSTRALIAN AIR FORCE / USAAF

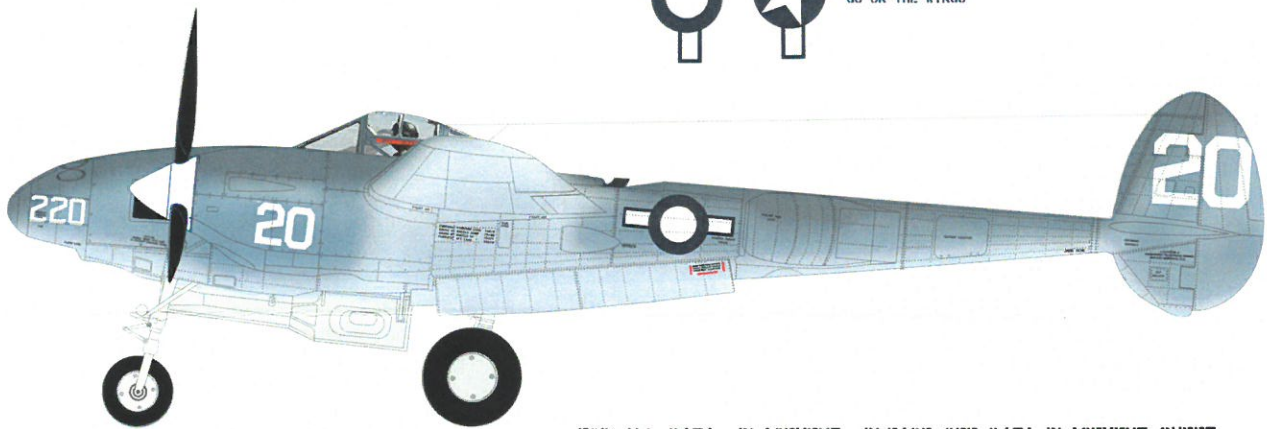
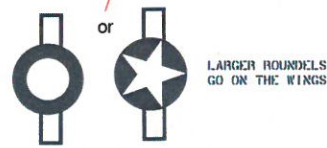
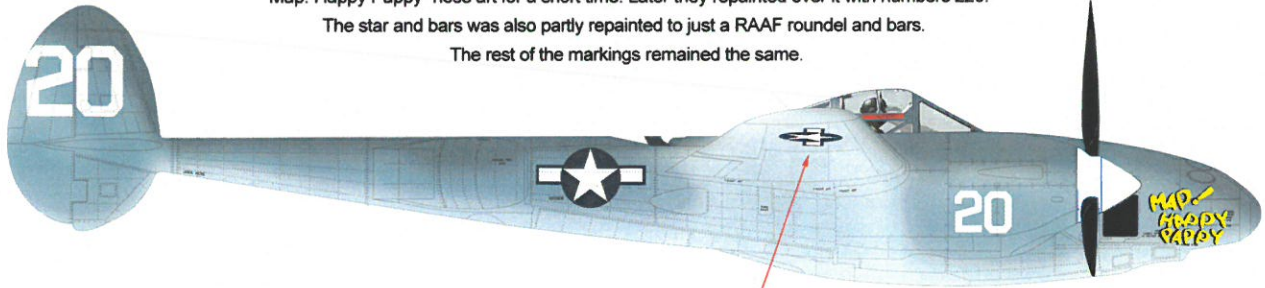
**MAP!
HAPPY
PAPPY**

P-38-F-4-1-LO PR LIGHTNINGS IN NEW GUINEA 1943

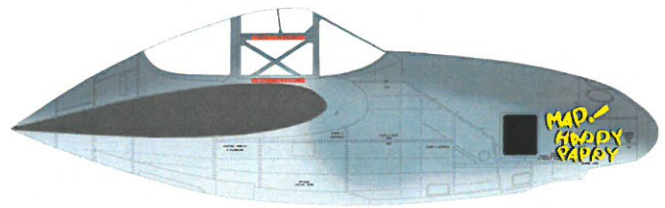
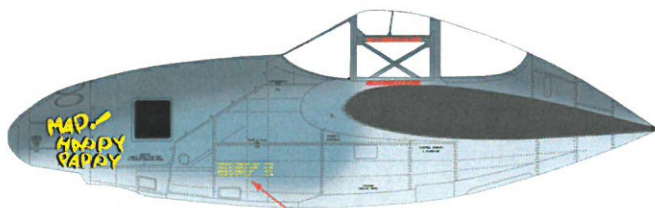
41-2220: This Aircraft was originally with 8 PRS of the USAAF. Loaned to 75 Sqn RAAF between August & December, 1943. 2220 was painted in the most difficult of paint schemes to reproduce, called HAZE. When 2220 was loaned to the 75 Sqn she still carried the "Map! Happy Pappy" nose art for a short time. Later they repainted over it with numbers 220.

The star and bars was also partly repainted to just a RAAF roundel and bars.

The rest of the markings remained the same.



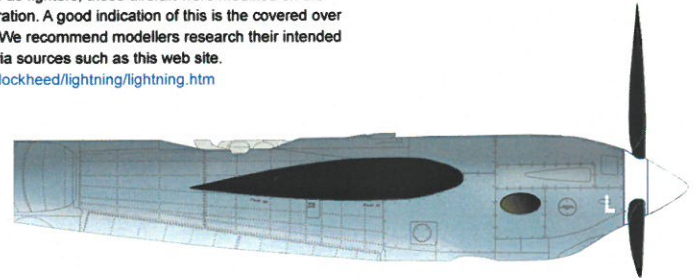
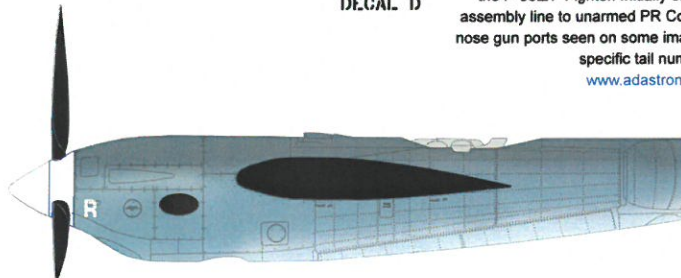
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DECAL ID

The Lockheed F-4-1-LO Lightning Photographic Reconnaissance (PR) aircraft was based on the P-38E/F Fighter. Initially ordered as fighters, these aircraft were modified on the assembly line to unarmed PR Configuration. A good indication of this is the covered over nose gun ports seen on some images. We recommend modellers research their intended specific tail number via sources such as this web site.

www.adastron.com/lockheed/lightning/lightning.htm



INSTRUCTION NOTE:

We have made the colours on these instructions lighter than usual, so as you can see where things are placed and panel lines are.

To paint the HAZE scheme correctly. Please see HAZE paint scheme sheet.

ALTERNATIVE COLOURS TO DO HAZE SCHEME. THESE COLOURS ARE ONLY A GUIDE.



Artwork By: Steven Evans
© Renata Douls

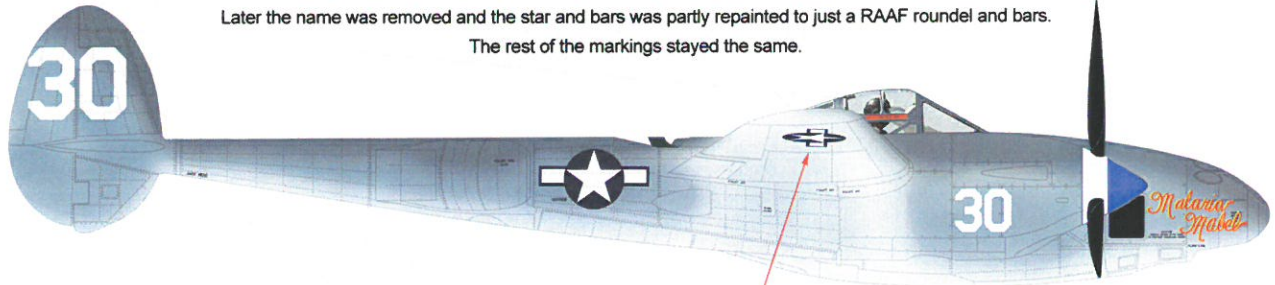
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ROYAL AUSTRALIAN AIR FORCE / USAAF P-38-F-4-I-LO PR LIGHTNINGS IN NEW GUINEA 1943

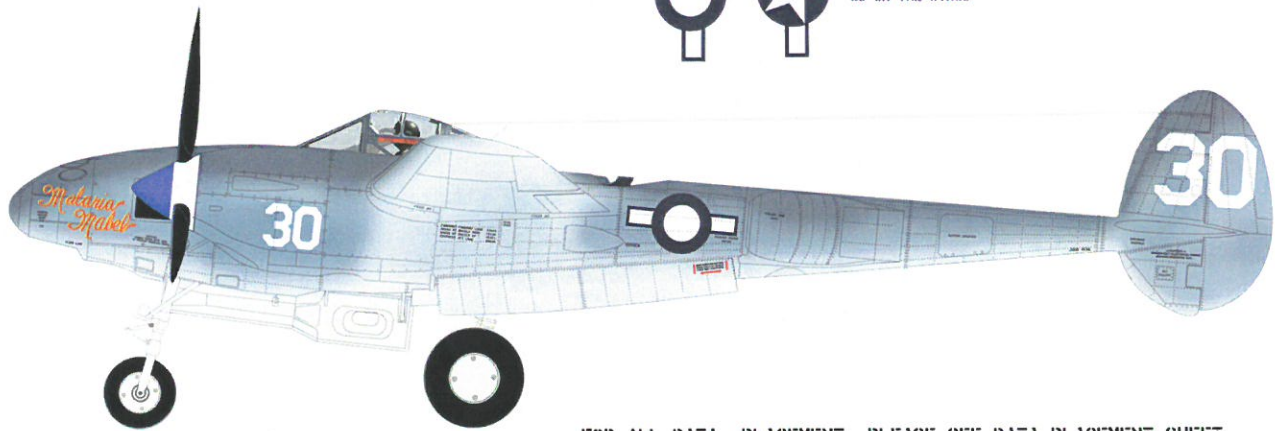
Malaria Mabel

41-2130: This Aircraft was originally with 8 PRS of the USAAF. Loaned to 1 PRU RAAF around mid 1943. 2130 was painted in the most difficult of paint schemes to reproduce, called HAZE.

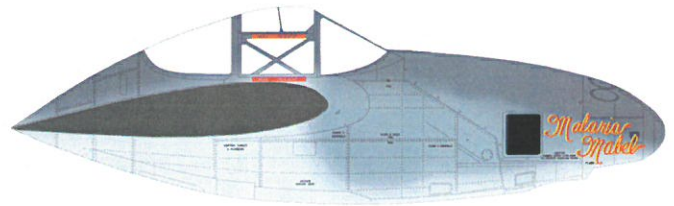
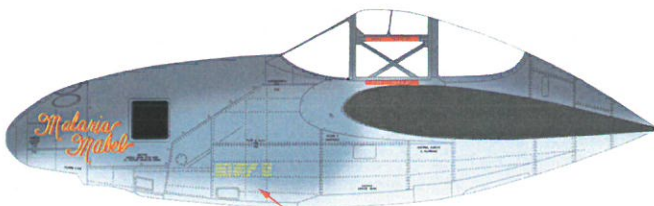
When 2130 was loaned to 1 PRU, she carried the "Malaria Mabel" nose art for a short time. Later the name was removed and the star and bars were partly repainted to just a RAAF roundel and bars. The rest of the markings stayed the same.



Note: This depicts 2130 as she may have been, before being paint stripped and used for spares. Due to lack of overall images of this aircraft, we can not be 100% certain of her final markings.

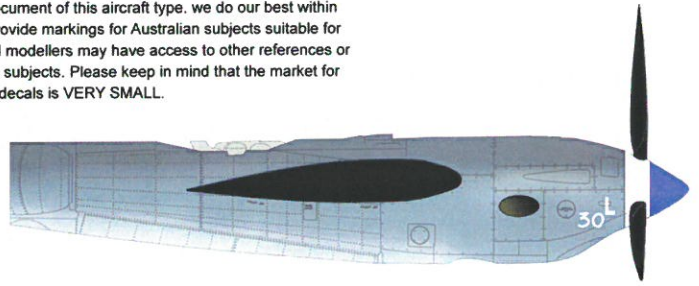
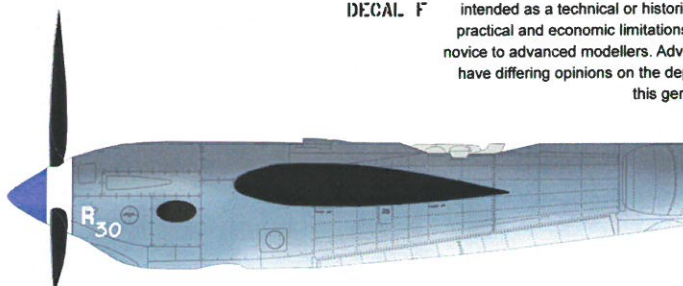


FOR ALL DATA PLACEMENT. PLEASE SEE DATA PLACEMENT SHEET



DECAL F

Drawings not to scale. Please keep in mind that these decals and drawings are not intended as a technical or historical document of this aircraft type. We do our best within practical and economic limitations to provide markings for Australian subjects suitable for novice to advanced modellers. Advanced modellers may have access to other references or have differing opinions on the depicted subjects. Please keep in mind that the market for this genre of decals is VERY SMALL.



ALTERNATIVE COLOURS TO DO HAZE SCHEME
THESE COLOURS ARE ONLY A GUIDE.



INSTRUCTION NOTE:
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To paint the HAZE scheme correctly.
Please see HAZE paint scheme sheet.

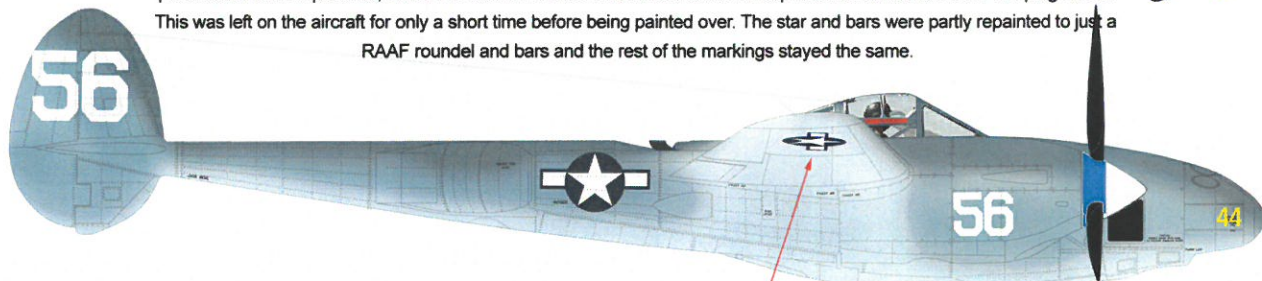
Artwork By: Steven Evans
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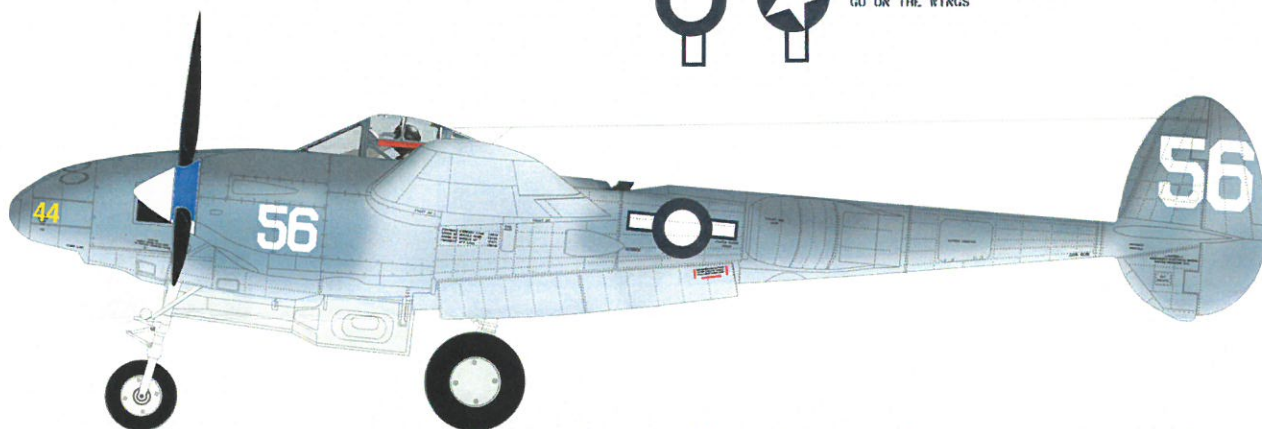
ROYAL AUSTRALIAN AIR FORCE / USAAF P-38-F-4-1-LO PR LIGHTNINGS IN NEW GUINEA 1943

"Limping Lizzie"

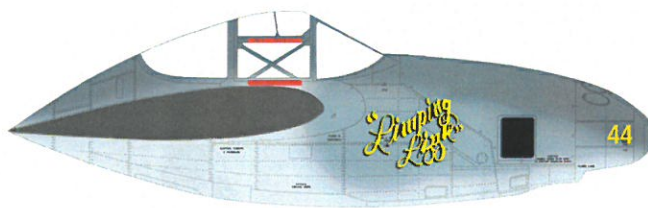
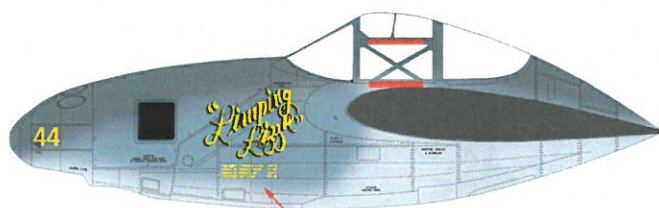
41-2156: This Aircraft was originally with 8 PRS of the USAAF, and was loaned to 75 Sqn RAAF between August & December, 1943. 2156 was painted in the most difficult of paint schemes to reproduce, called HAZE. When 2156 was loaned to the 75 Sqn she carried the nose art "Limping Lizzie". This was left on the aircraft for only a short time before being painted over. The star and bars were partly repainted to just a RAAF roundel and bars and the rest of the markings stayed the same.



Quick History: Out of all the F-4 PR Lightnings the RAAF operated, 41-2156 "Limping Lizzie" during her service with 8PRS she used in a movie called "Objective Burma". In the movie she is seen several times. Unfortunately, most of the footage of her are tail shots.

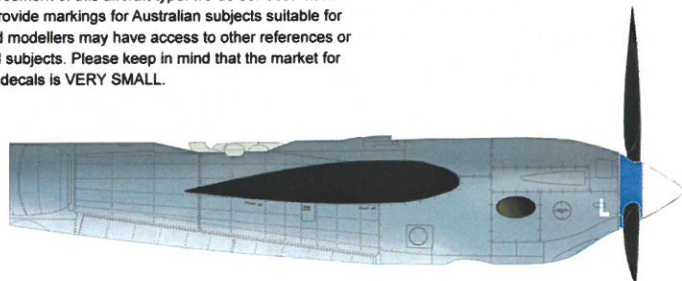
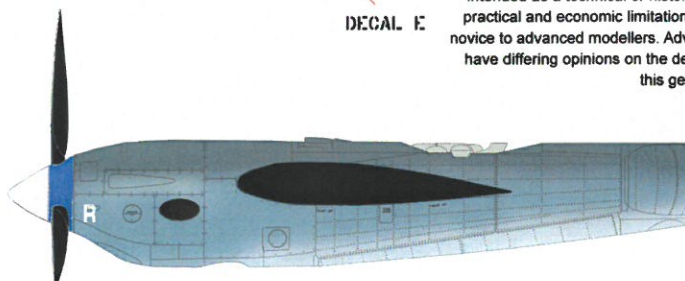


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DECAL E

Drawings not to scale. Please keep in mind that these decals and drawings are not intended as a technical or historical document of this aircraft type. We do our best within practical and economic limitations to provide markings for Australian subjects suitable for novice to advanced modellers. Advanced modellers may have access to other references or have differing opinions on the depicted subjects. Please keep in mind that the market for this genre of decals is VERY SMALL.



INSTRUCTION NOTE:

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To paint the HAZE scheme correctly. Please see HAZE paint scheme sheet.

ALTERNATIVE COLOURS TO DO HAZE SCHEME. THESE COLOURS ARE ONLY A GUIDE.

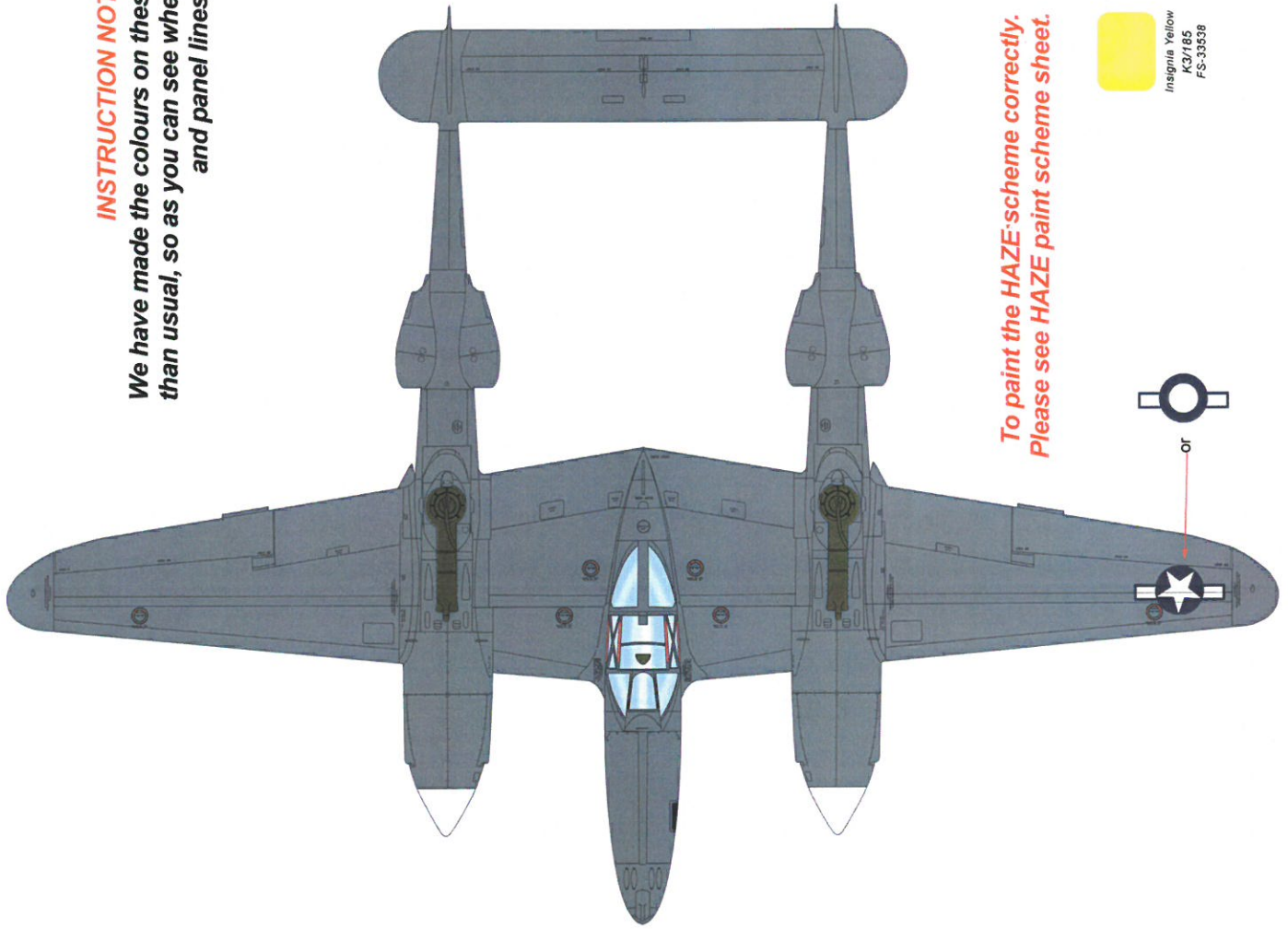


Artwork By: Steven Evans
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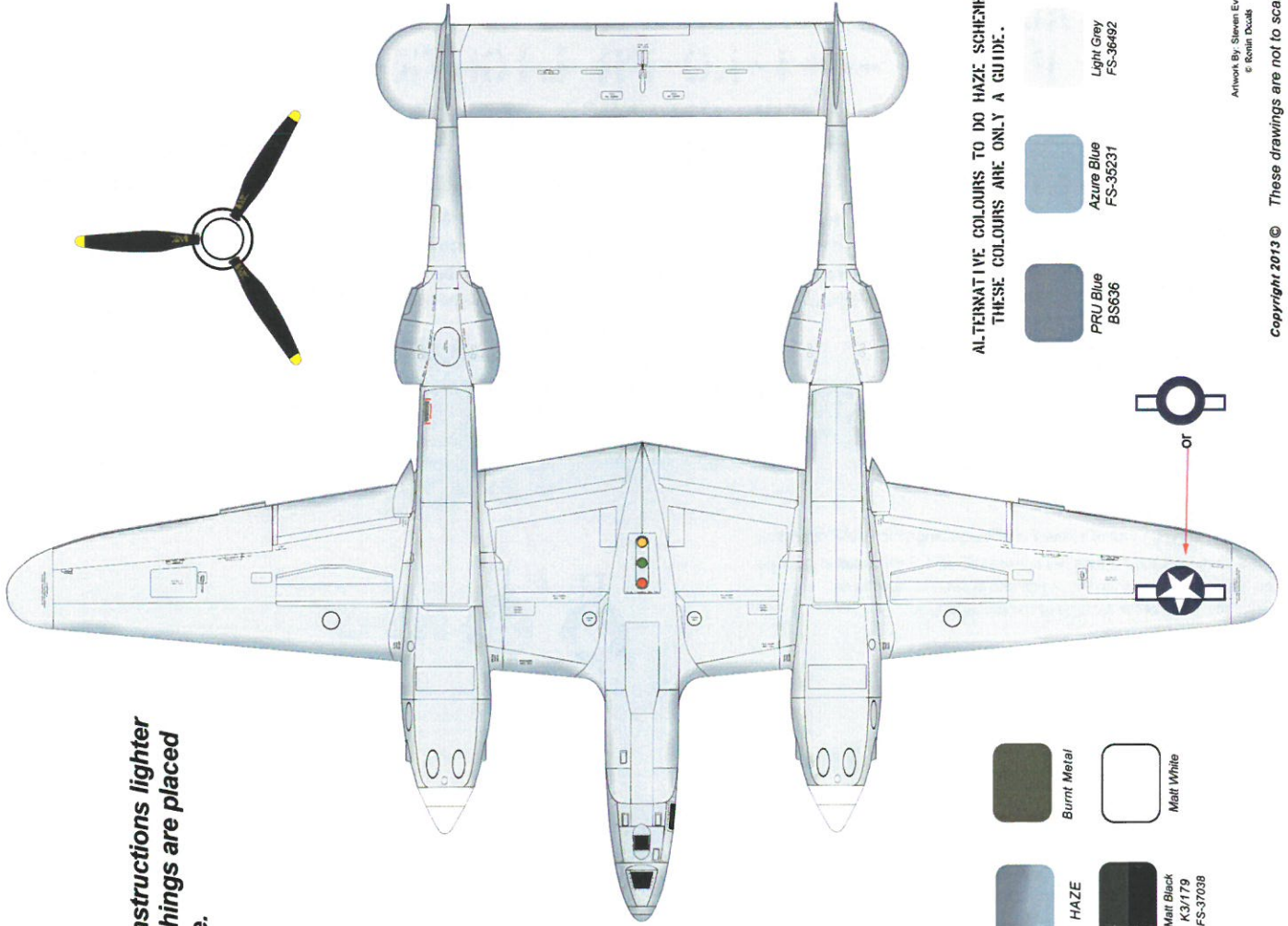
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INSTRUCTION NOTE:

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To paint the HAZE-scheme correctly.
Please see HAZE paint scheme sheet.



ALTERNATIVE COLOURS TO DO HAZE SCHEME
THESE COLOURS ARE ONLY A GUIDE.



or



Artwork By: Steven Evans
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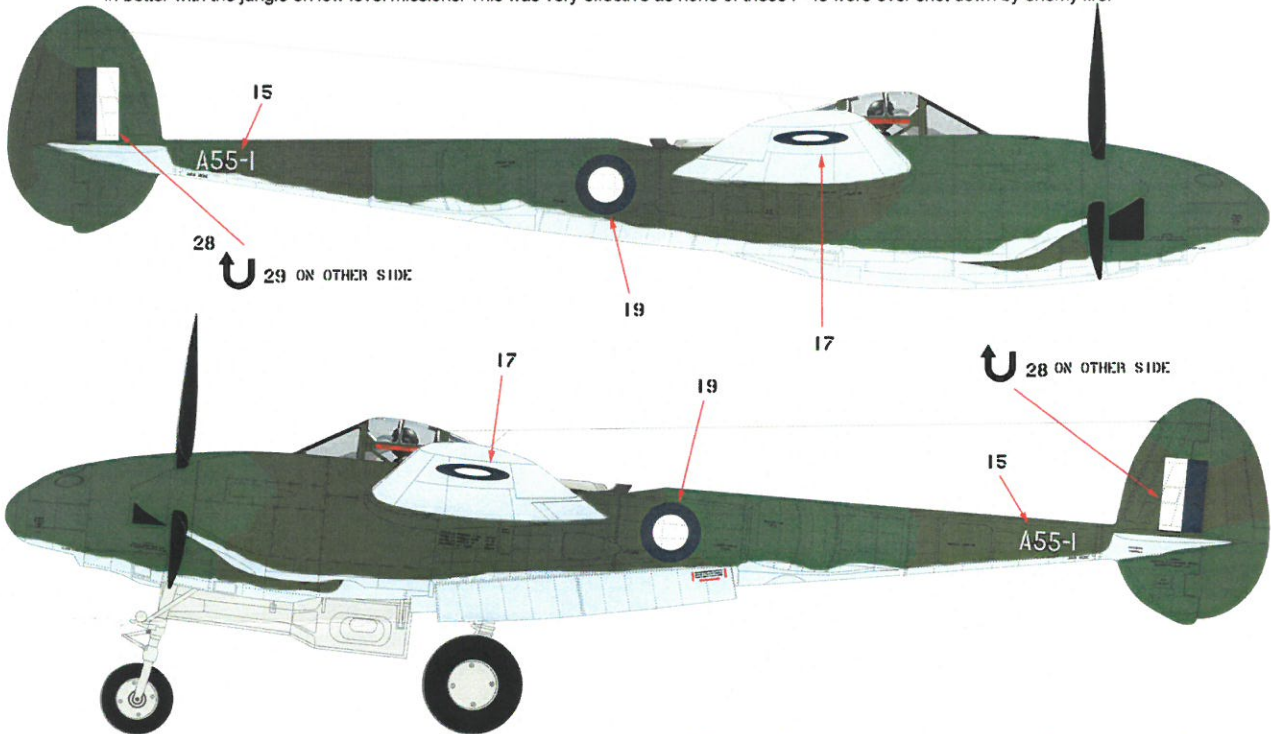
SSM-054 RAAF/USAAF P-38-F-4-I-LO PR LIGHTNINGS

ROYAL AUSTRALIAN AIR FORCE / USAAF P-38-F-4-1-LO PR LIGHTNINGS IN NEW GUINEA 1943

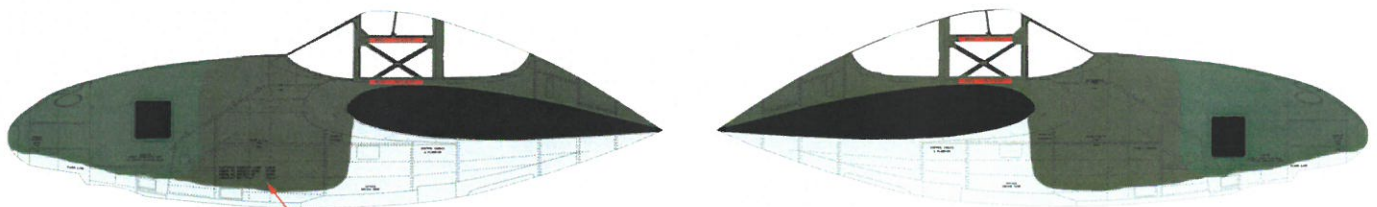
41-2158/A55-1: This aircraft was then loaned to 1 PRU of the RAAF in August 1942. 2158 was originally in Natural Metal Finish, but was later painted in the RAAF PR Camouflage scheme, Foliage Green, Olive Drab with a RAAF Sky under surface. Over the years people have been under the impression that they were painted in Foliage Green, Dark Earth and RAAF Sky. This is understandable, as most of the RAAF aircraft in the New Guinea Theatre were painted in these colours.

After many hours of research and comparing many images and documents we have discovered that this was not so.

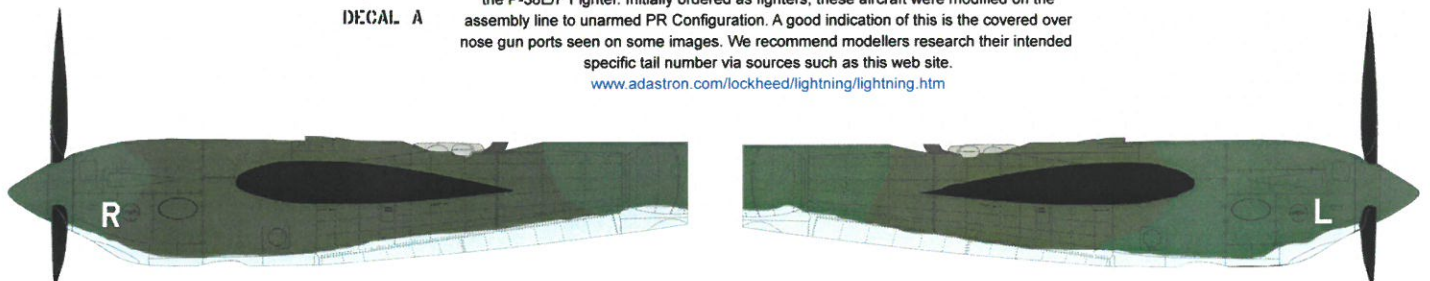
The reason why these aircraft were painted in Olive Drab, Foliage Green and RAAF sky was so that they would blend in better with the jungle on low level missions. This was very effective as none of these F-4s were ever shot down by enemy fire.



FOR ALL DATA PLACEMENT. PLEASE SEE DATA PLACEMENT SHEET



The Lockheed F-4-1-LO Lightning Photographic Reconnaissance (PR) aircraft was based on the P-38E/F Fighter. Initially ordered as fighters, these aircraft were modified on the assembly line to unarmed PR Configuration. A good indication of this is the covered over nose gun ports seen on some images. We recommend modellers research their intended specific tail number via sources such as this web site.
www.adastron.com/lockheed/lightning/lightning.htm



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FOR MORE PAINT COLOUR DETAILS SEE COLOUR CHART SHEET

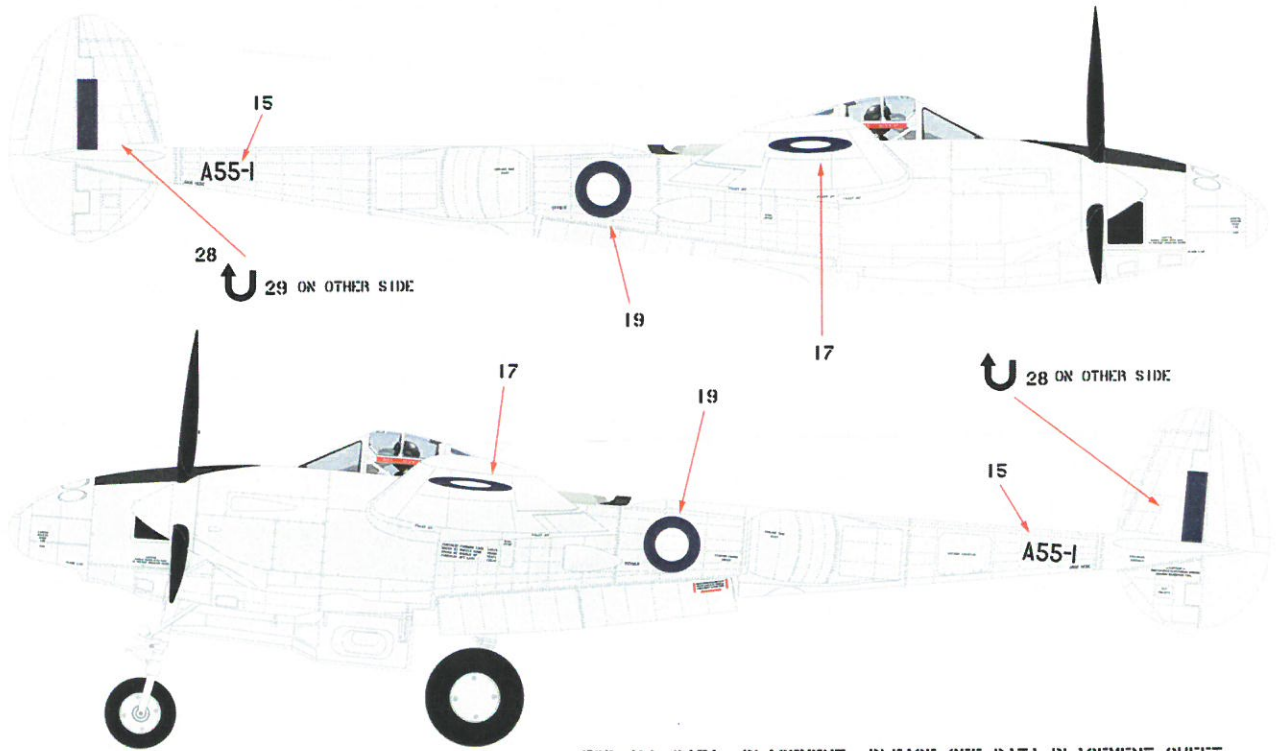


Artwork By: Steven Evens
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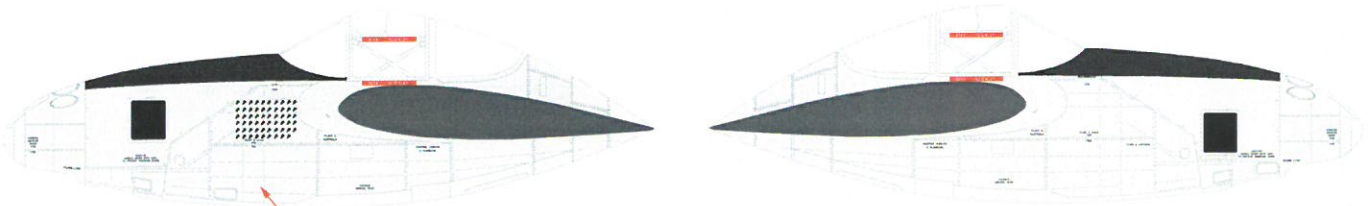
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ROYAL AUSTRALIAN AIR FORCE / USAAF P-38-F-4-1-LO PR LIGHTNINGS IN NEW GUINEA 1943

41-2158/A55-1: This Aircraft was then loaned to 1 PRU of the RAAF in August 1942. 2158 was the only F-4 PR Aircraft to be operated by the RAAF in her naked form, (Natural Metal Finish).. Over the years people have been under the impression that the mission markings on this aircraft were made up of stars. We have studied high resolution images of this aircraft and compared them with mission markings from other F-4s that were based at the same place during this time. We believe that the mission markings are made up of small silhouetted cameras. In low resolution images, they are easily mistaken for small stars.

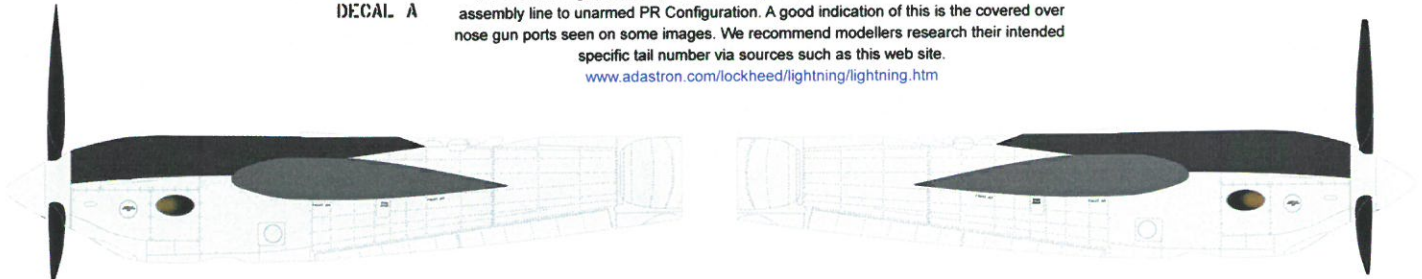


FOR ALL DATA PLACEMENT. PLEASE SEE DATA PLACEMENT SHEET



DECAL A

The Lockheed F-4-1-LO Lightning Photographic Reconnaissance (PR) aircraft was based on the P-38E/F Fighter. Initially ordered as fighters, these aircraft were modified on the assembly line to unarmed PR Configuration. A good indication of this is the covered over nose gun ports seen on some images. We recommend modellers research their intended specific tail number via sources such as this web site.
www.adastron.com/lockheed/lightning/lightning.htm



FOR MORE PAINT COLOUR DETAILS SEE COLOUR CHART SHEET

Aluminum

Flat Black

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Artwork By: Steven Evans
© Rotin Decals

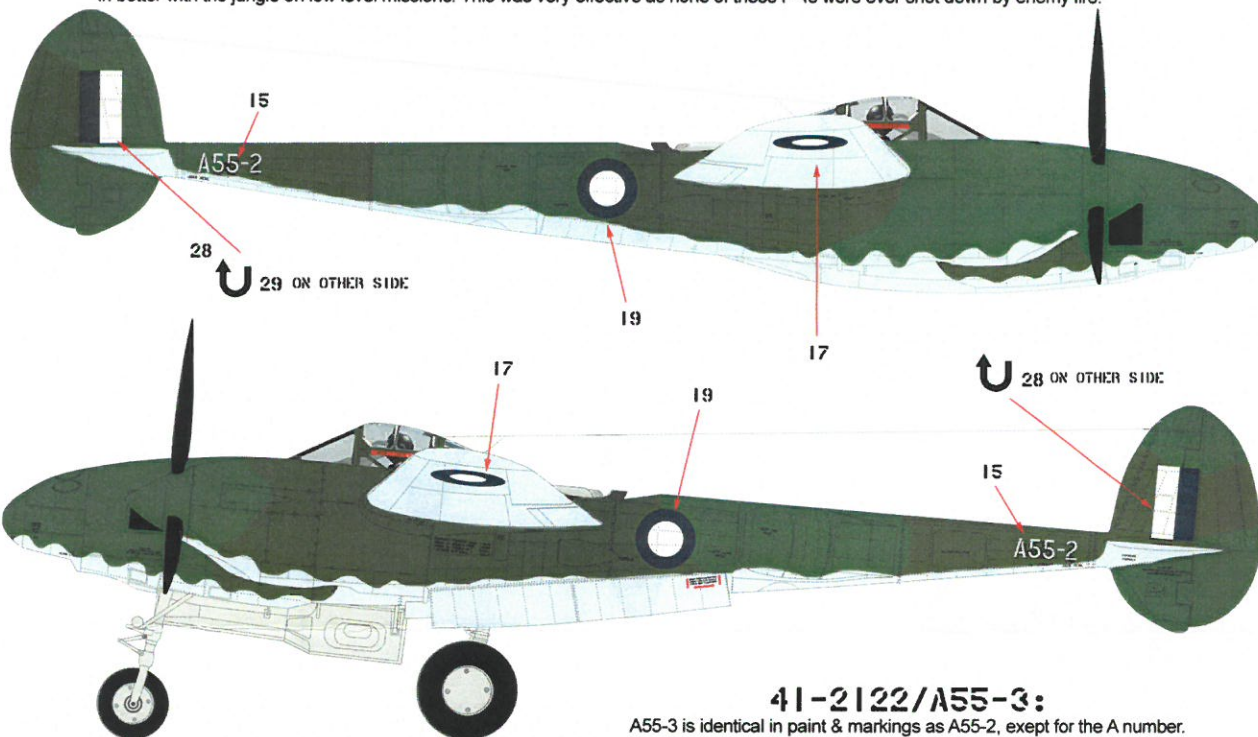
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ROYAL AUSTRALIAN AIR FORCE / USAAF P-38-F-4-1-LO PR LIGHTNINGS IN NEW GUINEA 1943

41-2159/A55-2: This Aircraft was then loaned to 1 PRU of the RAAF in September 1942.

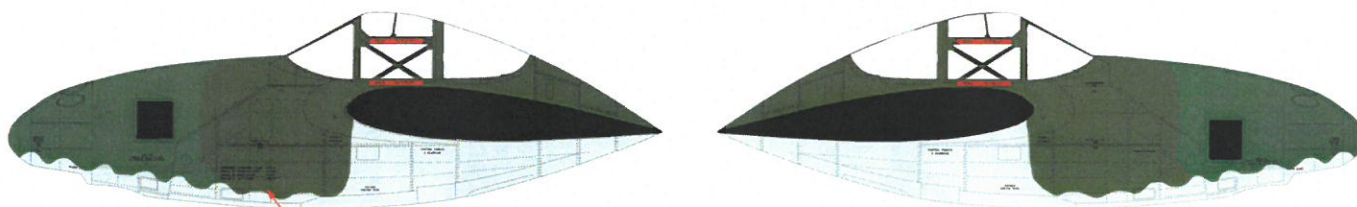
Delivered in Original USAAF Olive drab over Neutral Grey, the aircraft was repainted in RAAF PR Camouflage,

Olive Drab, Foliage Green and RAAF Sky. Over the years people have been under the impression that they were painted in Foliage Green, Dark Earth and RAAF Sky. This is understandable, as most of the RAAF aircraft in the New Guinea Theatre were painted in these colours. After many hours of research and comparing many images and documents we have discovered that this was not so. The reason why these aircraft were painted in Olive Drab, Foliage Green and RAAF sky was so that they would blend in better with the jungle on low level missions. This was very effective as none of these F-4s were ever shot down by enemy fire.



41-2122/A55-3:

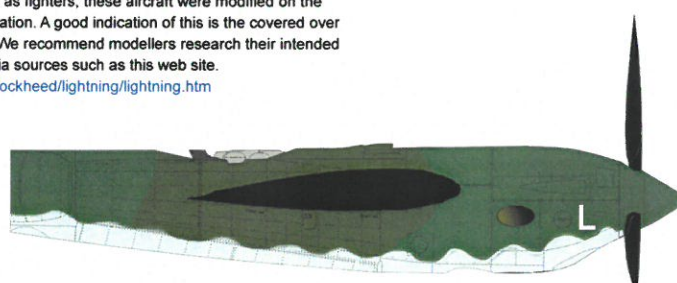
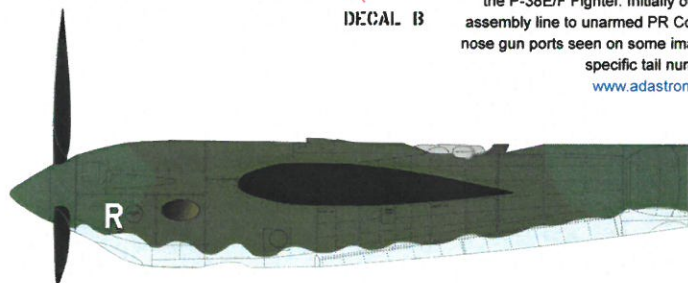
A55-3 is identical in paint & markings as A55-2, except for the A number.



DECAL B

The Lockheed F-4-1-LO Lightning Photographic Reconnaissance (PR) aircraft was based on the P-38E/F Fighter. Initially ordered as fighters, these aircraft were modified on the assembly line to unarmed PR Configuration. A good indication of this is the covered over nose gun ports seen on some images. We recommend modellers research their intended specific tail number via sources such as this web site.

www.adastron.com/lockheed/lightning/lightning.htm



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FOR MORE PAINT COLOUR DETAILS SEE COLOUR CHART SHEET



Foliage Green
FS-34092



Olive Drab
FS-34087



RAAF Sky Blue
FS-25550



Aluminum



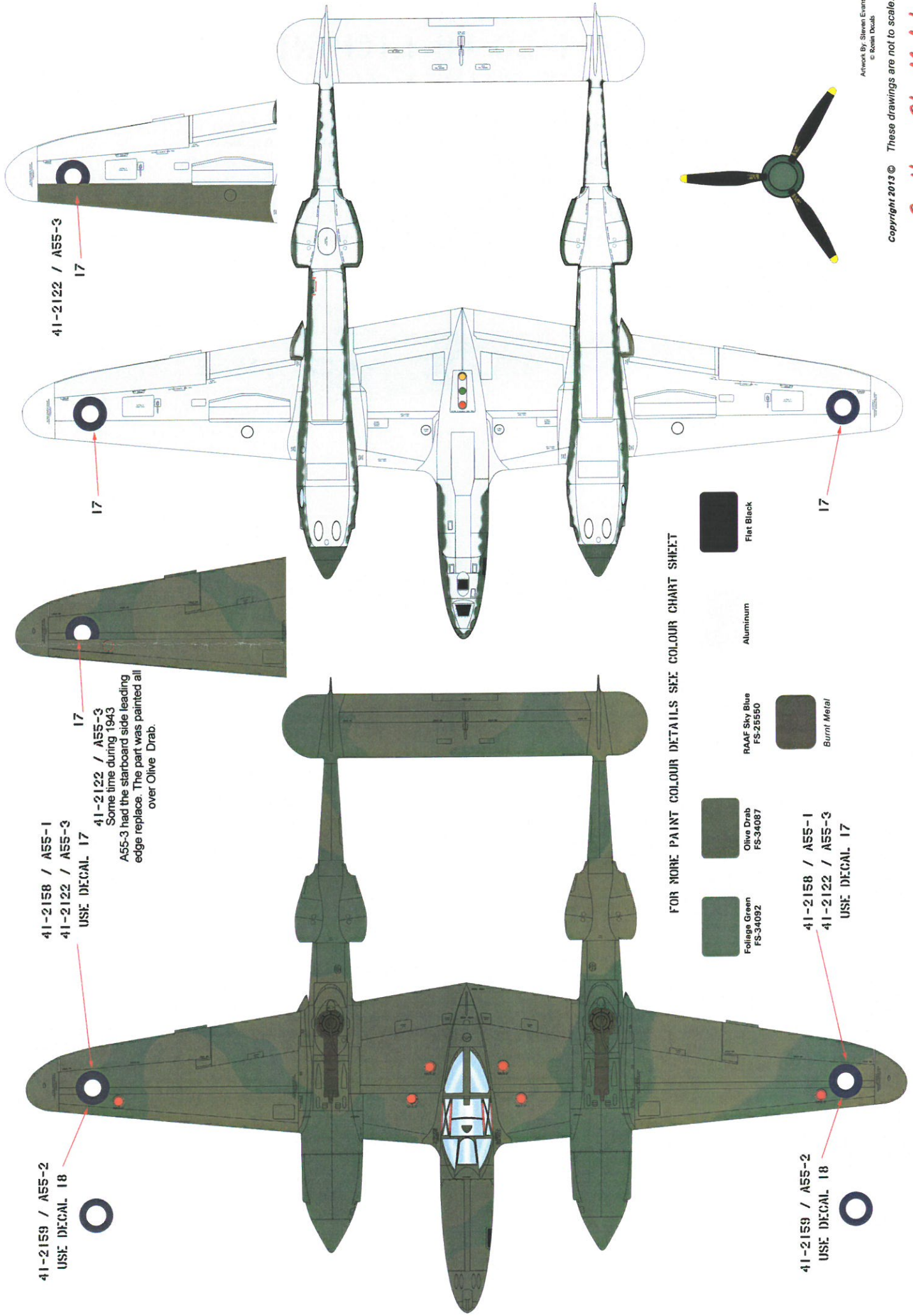
Flat Black



Cobalt Blue

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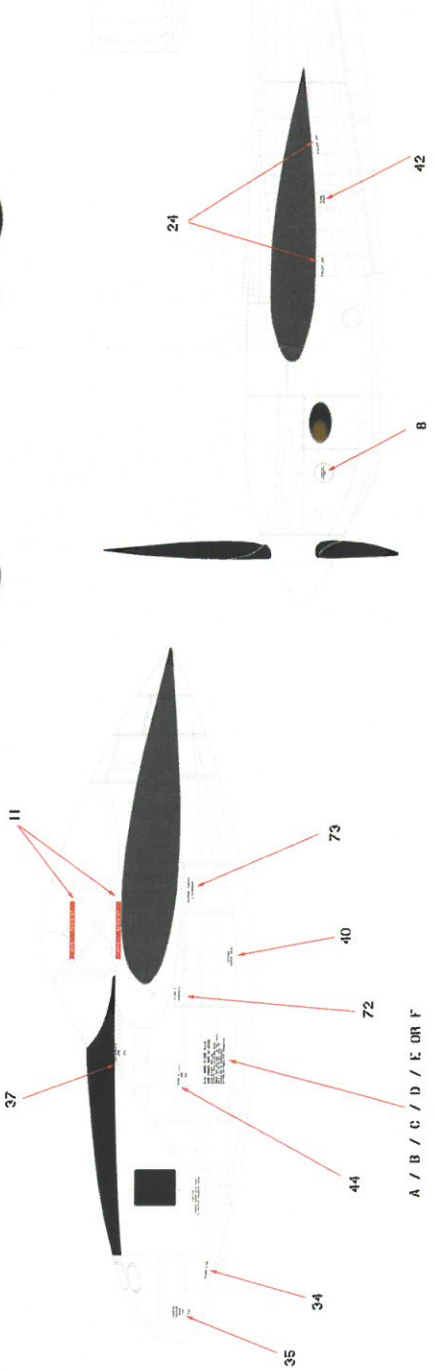
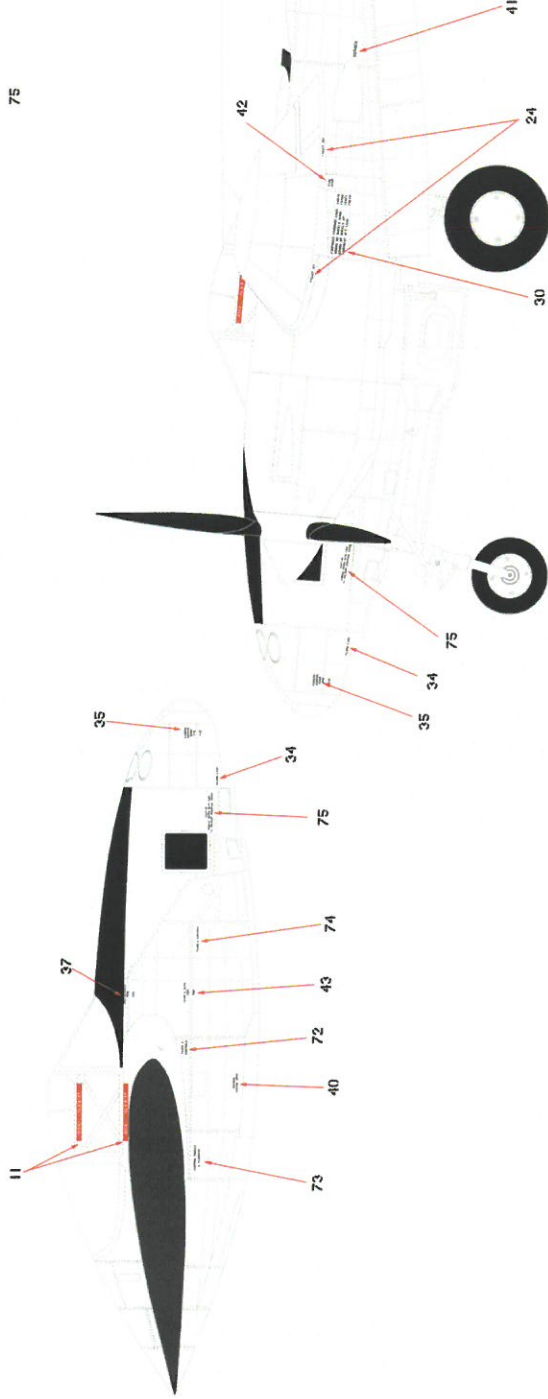
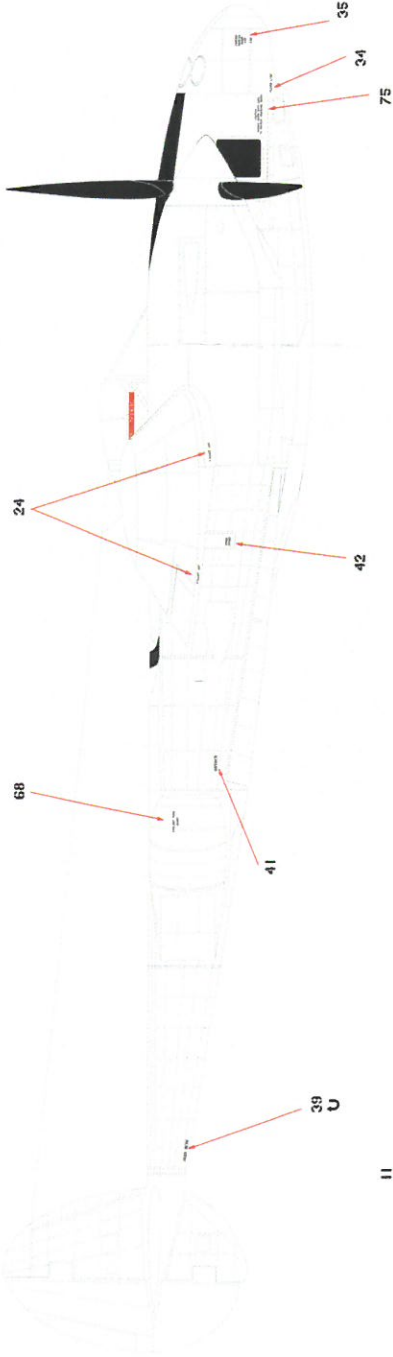
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SSM-054 RAAF/USAAF P-38-F-4-I-LO PR LIGHTNINGS

**RAAF / USAF
P-38-F-4-I-LO PR
STENCCELLING DIAGRAM**

 SAME SIDE ON OTHER TAIL.

 SAME ON OTHER SIDE



Artwork By Steven Evans
© Romijn Decals

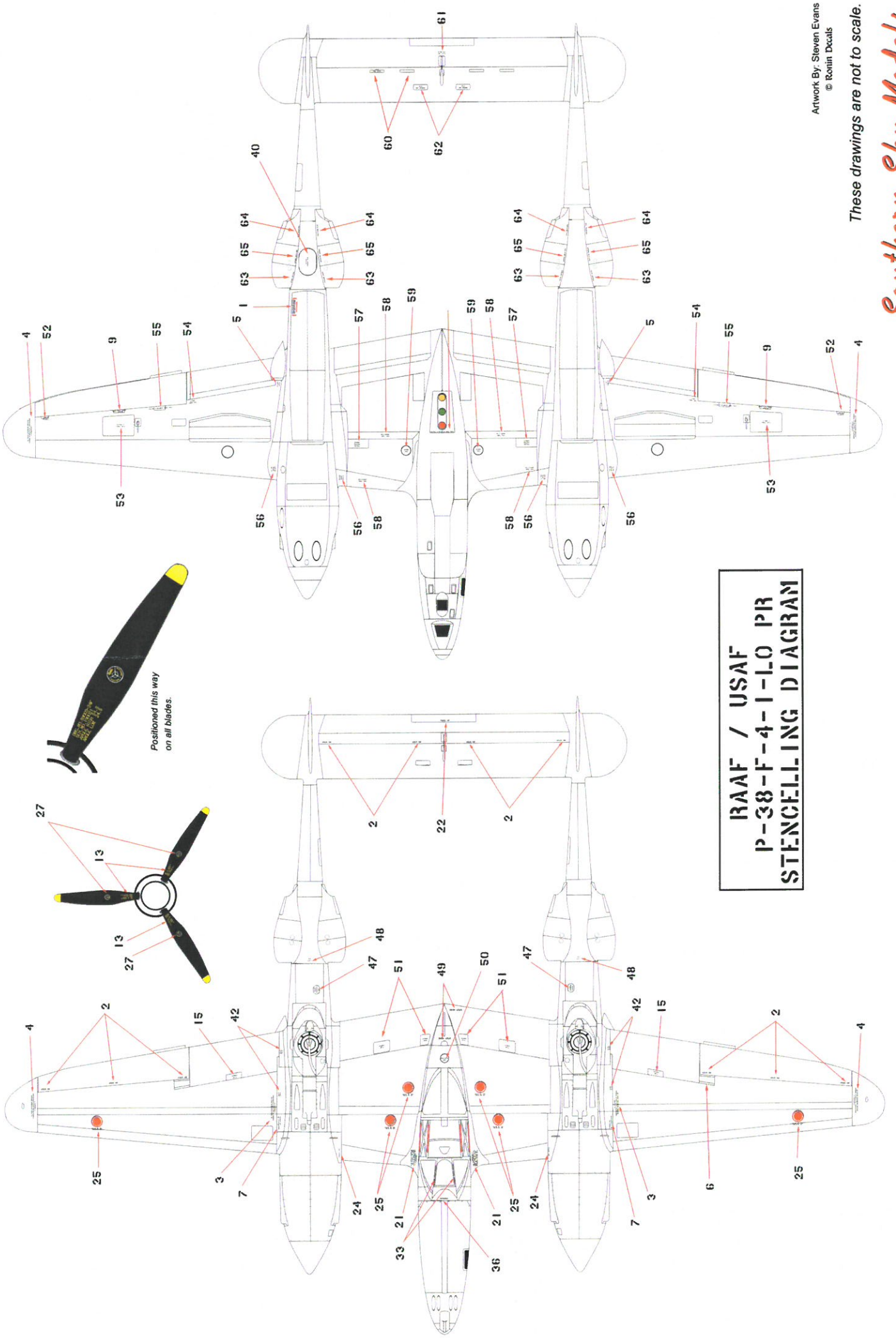
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SSM-054 RAAF/USAAF P-38-F-4-I-LO PR LIGHTNINGS

A / B / C / D / E OR F



SSM-054 RAAF / USAF P-38-F-4-I-LO PR LIGHTNINGS

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Supplemental Information to SSM-054

Painting the Lightning PR Haze Scheme

This may be one of the more interesting, fun or demanding paint schemes you have ever attempted. The first thing about the Haze scheme is that there is no "out of the bottle" paint you can buy to do it. There are no FS numbers, BS or ANA equivalent. Have a look at the references provided below, have a read of the information supplied and give it a go ☺

Do it well in 1/32 and you are a very good modeller...in 1/48 and you are an excellent modeller....pull it off in 1/72 and I will call you a Master Modeller!

RAAF Use:

It is known that the F-4 Lightnings delivered to the 8th Photographic Reconnaissance Squadron, USAAF were finished the special camouflage finish known as Haze Paint. Several of these aircraft were loaned to No.75 Squadron RAAF.

Background:

...paraphrased from an original article written by renowned US military aircraft paint colours expert, Dana Bell;

Haze Paint has been an unguarded secret for nearly 60 years. It was never listed in any Technical Order and since properties of the paint made samples impractical, color chips were never circulated. Though still a relatively unknown scheme, it was the standard high altitude photo reconnaissance camouflage paint scheme from March to October 1942 and was applied to nearly 130 PR Lightnings.

How Haze Paint Was Applied

Haze Paint was a graded system of shadow shading or countershading with thicker coats of the paint in shadow areas, to produce lighter colors. First, the entire aircraft was painted black. Then a light coat was sprayed over the upper surfaces resulting in a very dark bluish color. A heavy coat was applied to the under surfaces, particularly in shadowed areas. This heavy coat resulted in a graded finish that ranged from light blue to nearly white. Sides of the booms, fuselage and vertical stabilizers/rudders were mottled in a medium coat. Since Haze Paint was not a solid color camouflage scheme, and no equipment existed to control the precise application of the graded layers of paint...it fell to the "artistic" judgment of the aircraft painter. This resulted in many variations in the thickness of Haze Paint applied to different aircraft and as such all had differing reflectance.

Painting in Haze Paint could only be done in daylight. During night there was not enough light to judge relative thickness. Being oil based, it required 12 hours to dry. Fumes from the paint caused illness in some painting crews requiring hospitalization after an eight hour day of painting. Retouching chipped paint was nearly impossible to match. Although very effective at concealing aircraft at high altitude, the finish weathered quickly and the aircraft would progressively darken to its base color, losing any benefit from the Haze layer.

Other products were used in an attempt to solve some of technical problems and subsequent to a Proving Ground Command final report on Haze Paint, (stating that it was only marginally superior to the standard Dark Olive Drab/Neutral Gray), Materiel Command recommended no further use of Haze.

Operational Experience:

Field units flying combat missions with aircraft finished in the Haze scheme reported the scheme to be extremely desirable. Even if it gave the unarmed recon pilot a slight advantage, it was considered a plus!

In January 1943, following an internal policy debate, a USAAF directive calling for the application of Haze Paint was issued, pending development of a more durable and easier to apply version. Just such a replacement was at hand. Developed and tested at Lockheed, it was known as Synthetic Haze Paint! But, being not applicable to the subjects depicted in this decal set, Synthetic Haze Paint is another story!

So How Will I Apply Haze Paint to My Model?

Good Question! Basically, I am going to leave it to you....but here is what I will do...with an airbrush of course. Do keep in mind, I haven't tried this method yet...as much as I would like to, I don't complete a model of every decal scheme produced....in fact, running a business means I haven't actually modelled a kit since I started the business!

- 1. Undercoat in a strong blue grey (such as FS35237 used on F/A-18s) then;*
- 2. Spray the model sides and undersurfaces in a light misting coat of white and RAAF Sky Blue (about 50/50 White/Sky Blue).*
- 3. Add more coats of the above mix to the undersurfaces, making multiple passes on the centre undersurfaces to create the near white, with fewer and fewer passes as I progress up the sides.*
- 4. Now choose a stronger blue...perhaps Dark Sea Blue FS35042, and starting at the lower sides, make one very light pass, then progress up the sides and onto the upper surfaces with more passes of the airbrush as I get closer to the upper surfaces. Mottle some areas of the sides for effect.*
- 5. When Happy...Apply clear gloss...apply decals.....then finally, seal in satin.*

References:

*Revell 1/72 F-4A Lightning by Scott Van Aken;
Lockheed F-5A-1-LO Lightning by W. Scheibling;
The Lockheed File;*

*<http://modelingmadness.com/scott/allies/us/f4a.htm>
http://www.hyperscale.com/features/2000/f5aws_1.htm
<http://www.lockheed.adastron.com/>*

There are quite a few web articles out there on the Haze Scheme. Just remember, don't confuse it with its successor, 'Synthetic Haze'

Happy Modelling.

Colour Reference Chart/Guide

 Interior Green FS-34151 (Closest match)	<i>Model Master</i> MM:1715	 Matt Black K3/179 FS-37038	<i>Model Master</i> MM:1749	 Cobalt Blue	<i>Model Master</i> MM2012
	<i>Humbrol</i> HUM:151		<i>Humbrol</i> H33		
	<i>Gunze</i> H58		<i>Gunze</i> H12		
	<i>Xtra Colour</i> X117		<i>Xtra Colour</i>		
 Burnt Metal	<i>Model Master</i> MM:1415	 Olive Drab FS-34087	<i>Model Master</i> MM:1711	 Clear Red	<i>Model Master</i> MM4630
	<i>Humbrol</i>		<i>Humbrol</i>		
	<i>Gunze</i>		<i>Gunze</i> H304		
	<i>Xtra Colour</i>		<i>Xtra Colour</i> X111		
 Insignia Red FS-31136	<i>Model Master</i> MM:1705	 Foliage Green K3/177 FS-34092	<i>Model Master</i> C/M MM:1786	 Clear Green	<i>Model Master</i> MM:4668
	<i>Humbrol</i> C/M H19		<i>Humbrol</i> H149		
	<i>Gunze</i> H327		<i>Gunze</i> H302		
	<i>Xtra Colour</i> X102		<i>Xtra Colour</i> X114		
 Insignia Yellow K3/185 FS-33538	<i>Model Master</i> MM:1708	 RAAF Sky Blue K3/195 FS-25550	MIX % <i>Model Master</i> 1768/95 2048/5	 Clear Orange	<i>Model Master</i> MM4625
	<i>Humbrol</i> H154		<i>Humbrol</i> MIX % H47/50 H34/50		
	<i>Gunze</i> H329		<i>Gunze</i>		
	<i>Xtra Colour</i> X109		<i>Xtra Colour</i>		
 Silver (Undercarriage legs)	<i>Model Master</i> MM:1418	 HAZE	<i>Model Master</i>		<i>Model Master</i>
	<i>Humbrol</i> H11		<i>Humbrol</i>		
	<i>Gunze</i> H8		<i>Gunze</i>		
	<i>Xtra Colour</i> X142		<i>Xtra Colour</i>		

NO COLOUR MATCH
 Refer to HAZE paint Ins sheet

RDS-030 RAAF P-38-F-4-I-LO PR LIGHTNING

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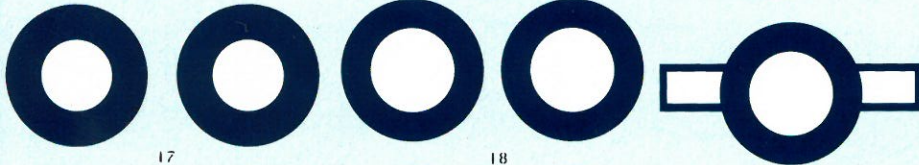
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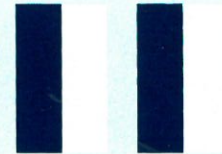
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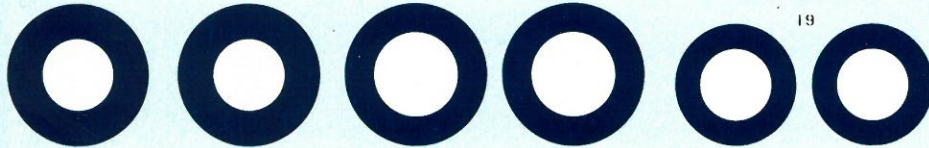
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*"Limping
Lizard"*

*"Limping
Lizard"*

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