



Northrop F-5E Tiger II



CONFIGURATION K

With an offer of improved F-5A, on November 20, 1970, Northrop was declared as the winner of International Fighter Aircraft (IFA) competition. This upgraded F-5, known as F-5A-21, equips with a J85-GE-21 engine, and its mid- and low-level performance has to compete with MiG-21 and Su-7. Also it is capable of air-to-ground attack.

This new fighter, winner among 7 competitors, eventually designated as F-5E, has increased wing area and more sophisticated avionics, subsequently received the official name Tiger II. This name is from F-5C/D Skoshi Tiger program executed in Vietnam, and "Tiger" has been occupied by Grumman F-11.

Unlike the F-5A, which had no radar, the most initial K configuration F-5E was equipped with an Emerson Electric AN/APQ-153 radar. Comparing to F-5A, F-5E has shorter take off / landing distance and noticeable of improvement on combat radius, payload and engine thrust to weight ratio.

The first USAF unit to receive F-5E was the 425th TFS, which is responsible for training foreign pilots in the F-5 aircraft. Although the F-5E was not seen front line service in USAF, yet due to its small size and performance similarities to the Soviet MiG-21, from 1975 the US Navy adopted F-5Es for an opposing forces simulation training role.

1970年11月、国際戦闘機（IFA）の競作において、F-5Aを改良するというノースロップ社の案が採用された。この改良されたF-5A-21はJ85-GE-21エンジンを搭載、低中域高度における能力はMiG-21やSu-7に匹敵し、対地攻撃能力も有していた。

7種の競作機の中から選ばれたこの戦闘機はF-5Eとして改良を加えられ、翼面積を増やし、空力的により洗練され、その後「タイガーII」の正式名称を与えられた。この名称は、ベトナムにおいて同じF-5「タイガー」の名称がすでにグラマン社のF-11に使われていたためでもあった。

レーダーを装備していなかったF-5Aと違い、F-5Eは最初のKタイプから、エマーソンエレクトリック製のAN/APQ-153レーダーを装備していた。F-5EはF-5Aと比較して、短い離着陸距離、戦闘行動範囲や搭載量、エンジン推進力において、著しい進歩を遂げていた。

米空軍部隊で最初にF-5Eを装備したのは、外国人操縦者を訓練する任務にあたる、第425戦術航空隊であった。F-5Eは、米空軍の前線部隊には配備されることはなかった。しかし、小さな機体と、MiG21によく似た運動性能に目を付けた米海軍が、1975年に訓練に使用する仮想敵機として、F-5Eを採用したのである。

1970年底、為了贏得一個以軍援盟邦為訴求的「國際戰鬥飛機」（IFA）計畫，美國的諾斯洛普公司以改裝J85-GE-21發動機的F-5A戰機來取代已經就役中的F-5A，贏得了一個合約來取代F-5A。這個計畫要求新的戰機在中、低空的性能需要與蘇聯的MiG-21及Su-7接近，並具備對地的攻擊能力。這款被稱做F-5A-21的原型機，擁有比F-5A更大的翼面積與更先進的航電設備，在與其他七個競爭對手的競逐中脫穎而出，賦與正式型號為F-5E，同時被軍方命名為虎II式，這個名稱來自美國在越南測試F-5C/D的幼虎計畫，而在更早之前格魯曼公司已經有了被命名為虎式的F-11F。

有別於F-5A未配製雷達，F-5E從最早的量產型K構型開始便配備了一具艾默生公司的AN/APQ-153雷達，除此之外並縮短了飛機的起降距離，在巡航半徑、酬載量與發動機推力比上也獲得了提升。

首架F-5E於1973年交付予美國空軍第425戰術戰鬥中隊，做為供各盟國空軍換裝訓練之用。雖然F-5E並沒有成為美國的第一線戰機，但由於它的低空特性與蘇聯MiG-21相當，因此美國海軍與空軍於1975年次第引進F-5E做為假想敵的模擬演練之用。

Illustration:圖示說明



Method For Applying Decals:

水貼紙使用說明:

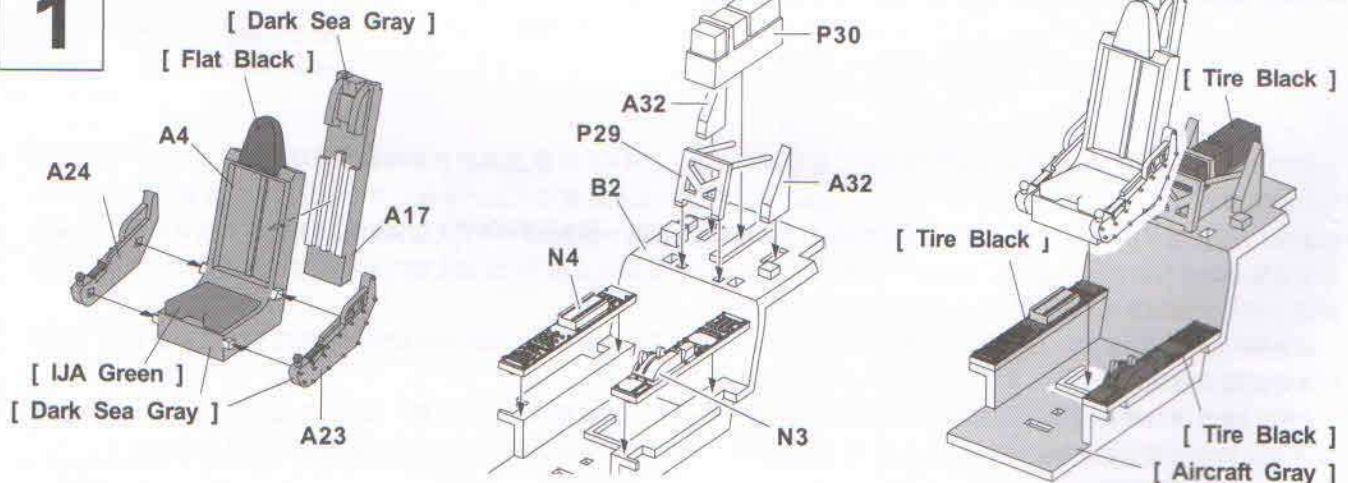
1. Clean Model Surface With Wet Cloth.
2. Cut Out Of Decal Sheet And Dip Them In Water For 15 Seconds.
3. Place it on proper position on model.
4. Slide off base paper leaving decals On Model With Wet Finger Tip.
5. Move Decals To Exact Position, Push Out Excess Water Under Decal With Soft Cotton Cloth.
6. When Decals Get Dry Then Complete.

1. 將模型表面擦乾淨
2. 將貼紙剪下泡入清水中約15秒
3. 將泡濕之貼紙取出置於欲貼處旁
4. 用指尖輕推貼紙表面使其滑出底紙
5. 將貼紙調整至適當位置並輕擦拭水份
6. 待其自然乾燥後即完成

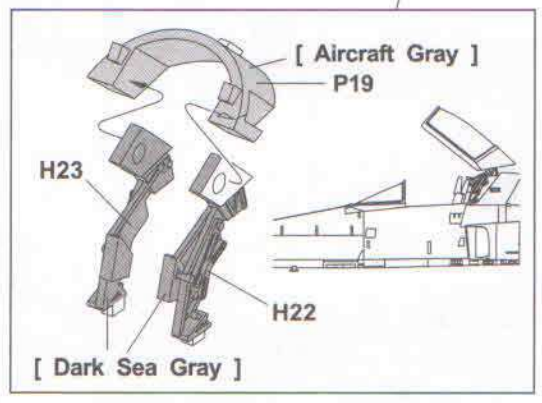
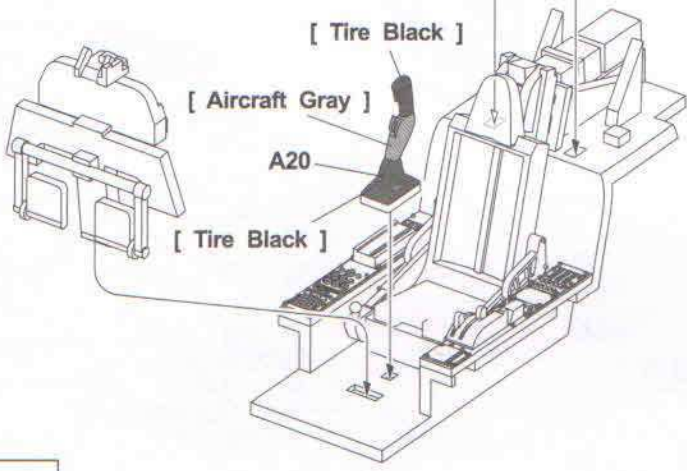
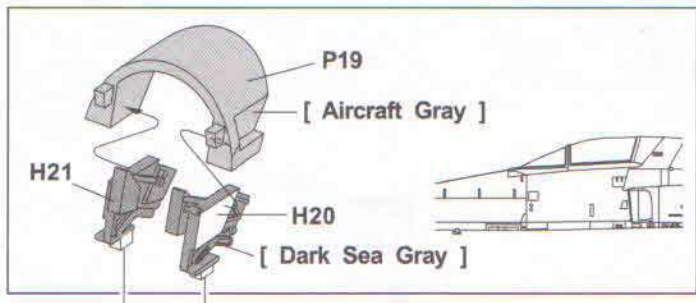
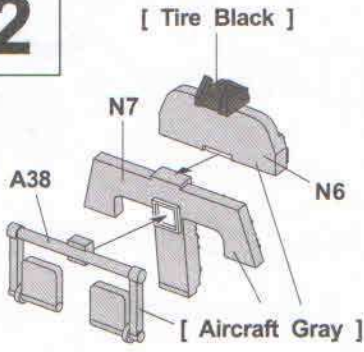
Color list: 塗料表

Color	Brand	Gunze Sangyo			Humbrol	Revell	Life Color
		Hobby Color	Mr. Color	Mr. Color Spray			
IJA Green	日陸軍綠	H-60	C-16	J-16			UA122
Dark sea gray	深海灰	H-75	C-25		27		UA93
Steel	黑鐵	H-18	C-28	J-28	53	91	LC76
Tire black	輪胎黑	H-77	C-33+C-62		85	302	LC02
Red	紅	H-3	C-3	J-3	19	31	LC56
Flat white	消光白	H-11	C-62	J-62	34	05	LC01
Flat black	消光黑	H-12	C-33	J-33	33	8	
Aircraft gray	飛機灰	H-73	C-23		30		UA91
Aluminum	鋁		MC-218		27001-6	99	
Silver	銀	H-8	C-8	J-8	11	90	LC74
Orange	橘	H-14	C-59		18	30	LC55
Light blue	淺藍	H-45			47		LC58
Flat red	消光紅	H-13			73		LC06
Light gull gray	淺鷗灰	H-51	C-11	J-11			UA24
Yellow FS13538	黃	H-329	C-329		188		LC53
Gray FS36320	灰	H-307	C-307		128	374	UA27
Earth red FS30117	紅土				186		UA82
Desert pink FS30279	砂漠粉紅				250		UA89
Tan FS33613	黃褐	H-318	C-318		148		DR06
Burnt iron	燒鐵色	H-76	C-61				LC26
Gray FS36375	淺幽灰	H-308	C-308		127		UA26
Gray FS36270	中灰	H-306	C-306		126		UA28

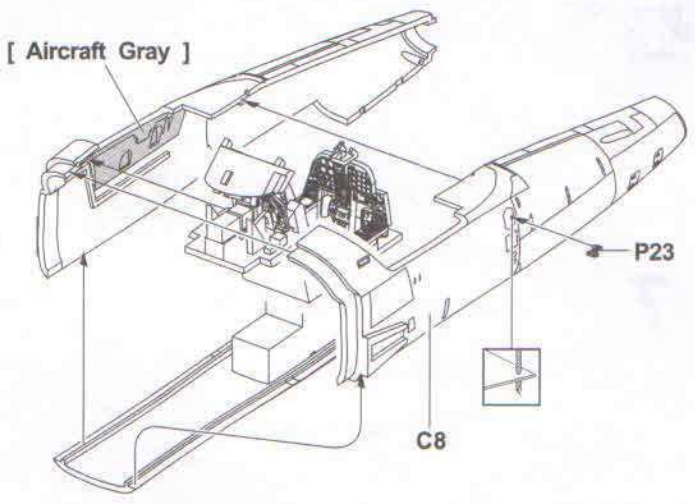
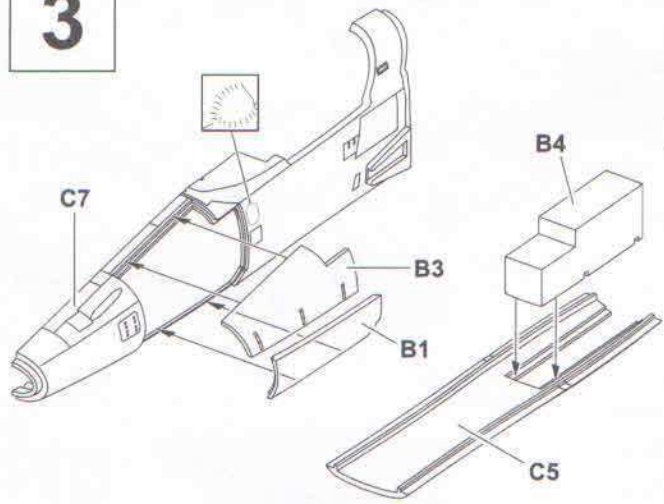
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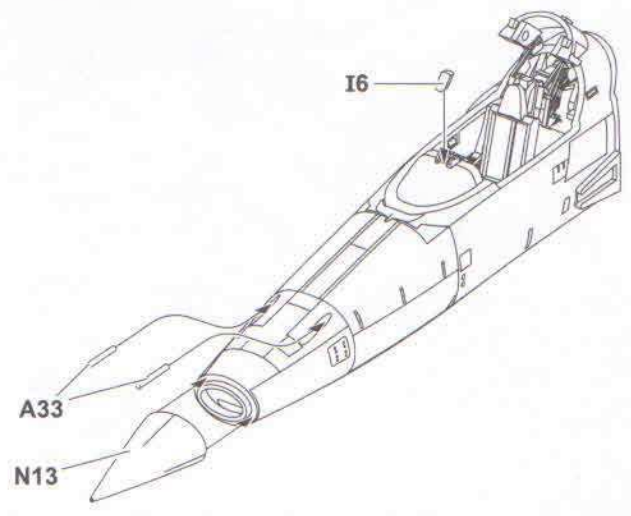
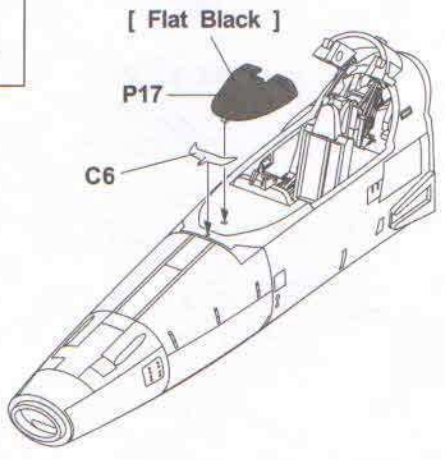
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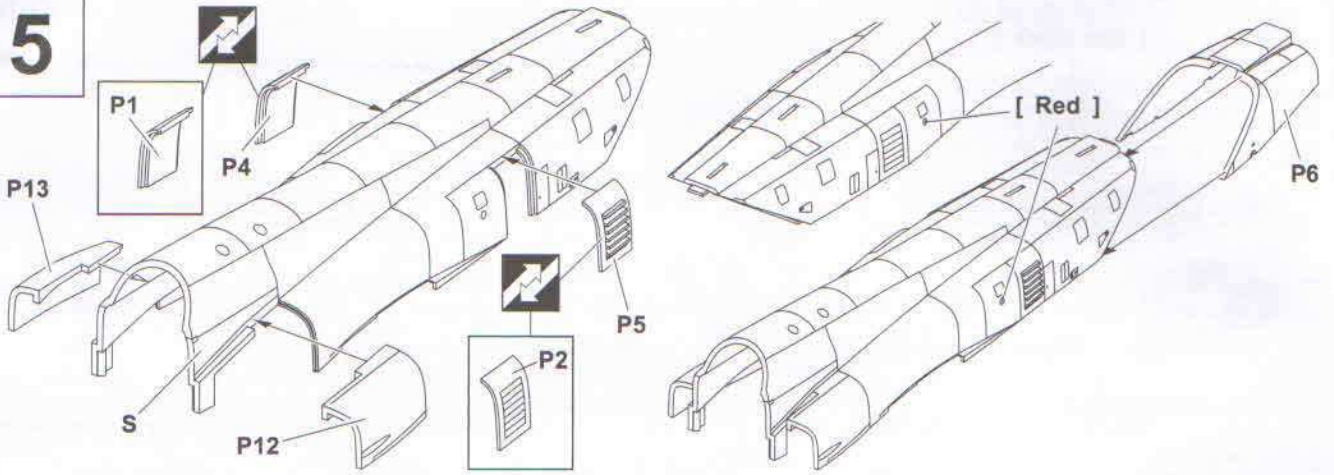
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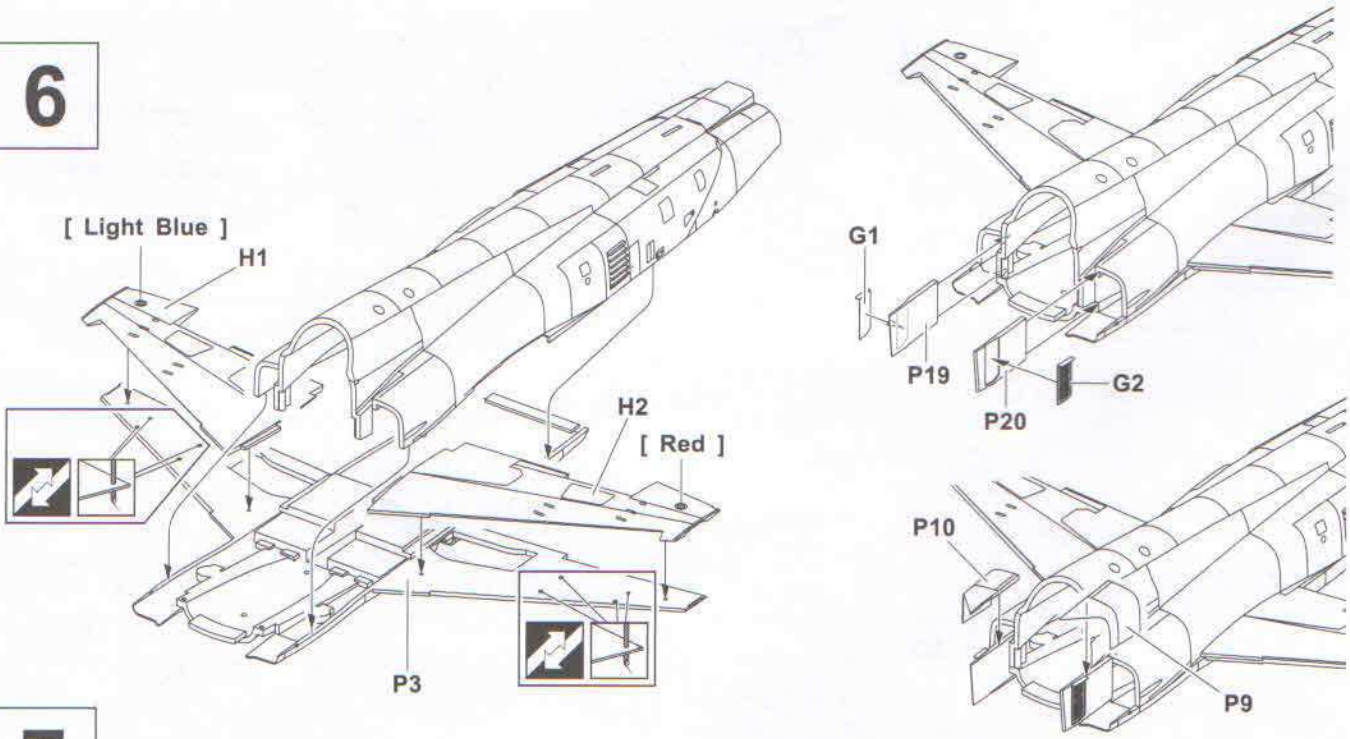
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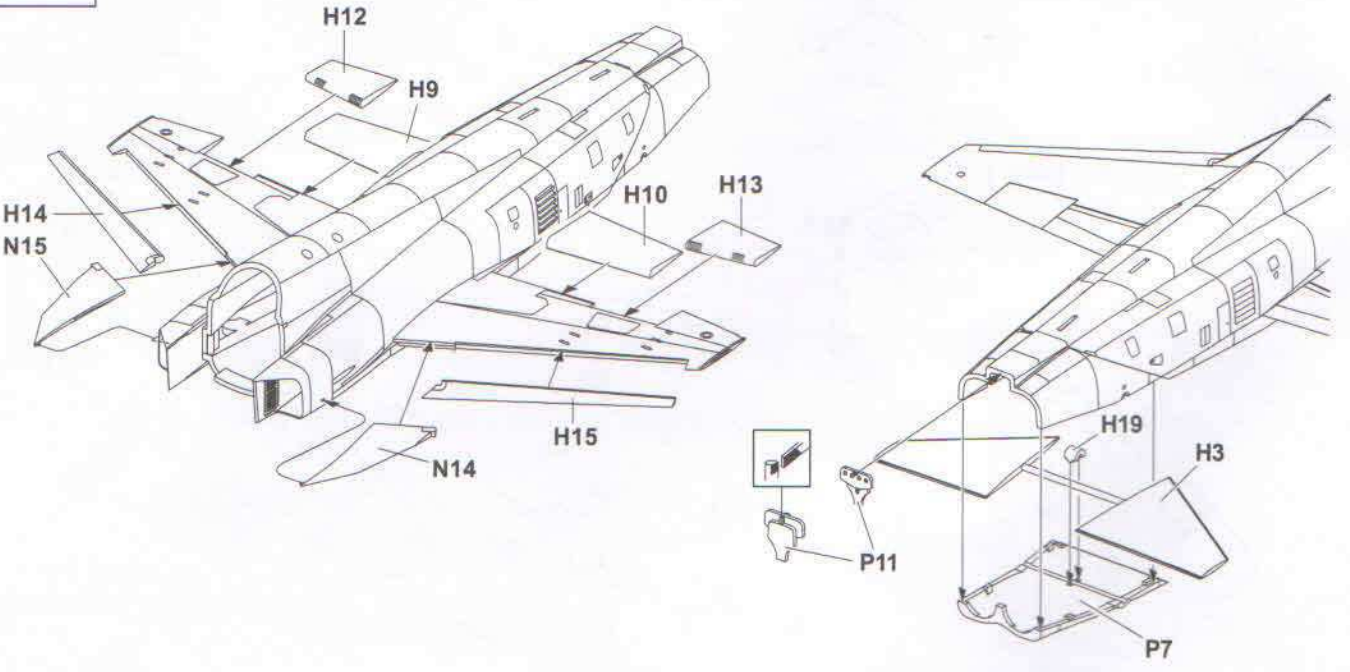
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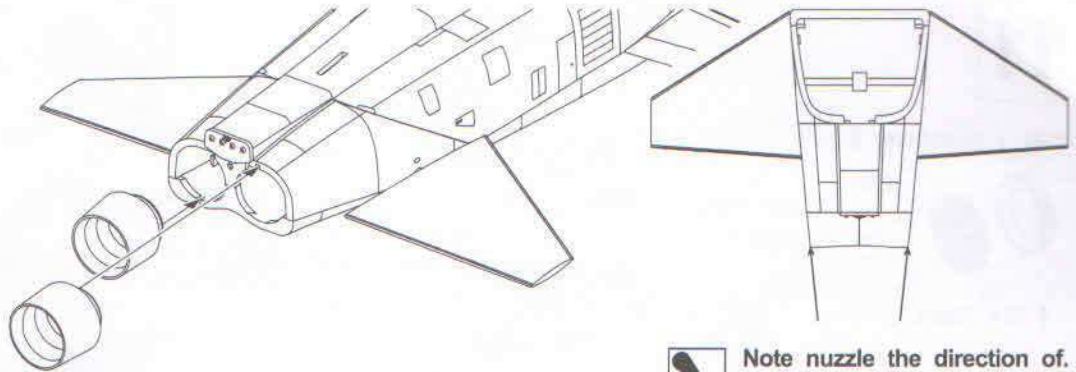
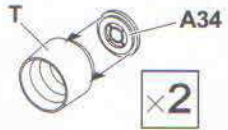
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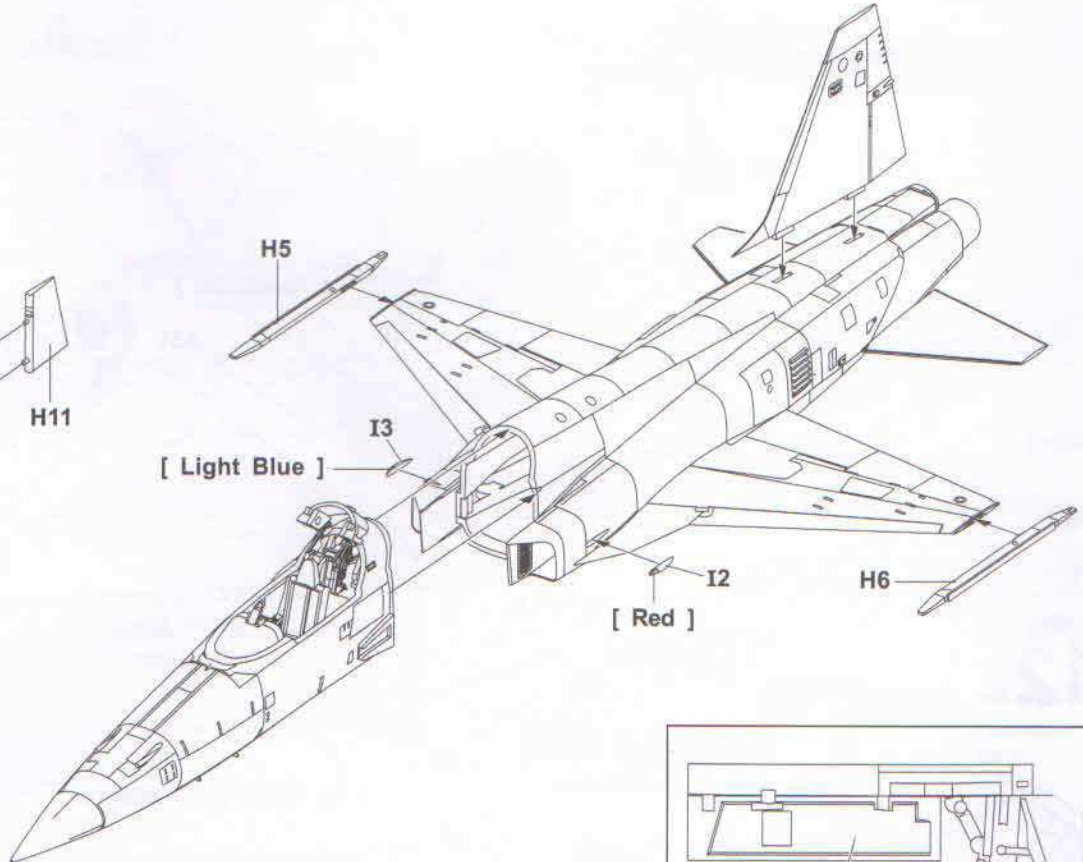
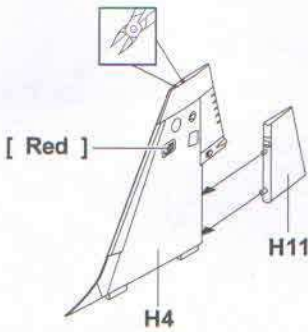


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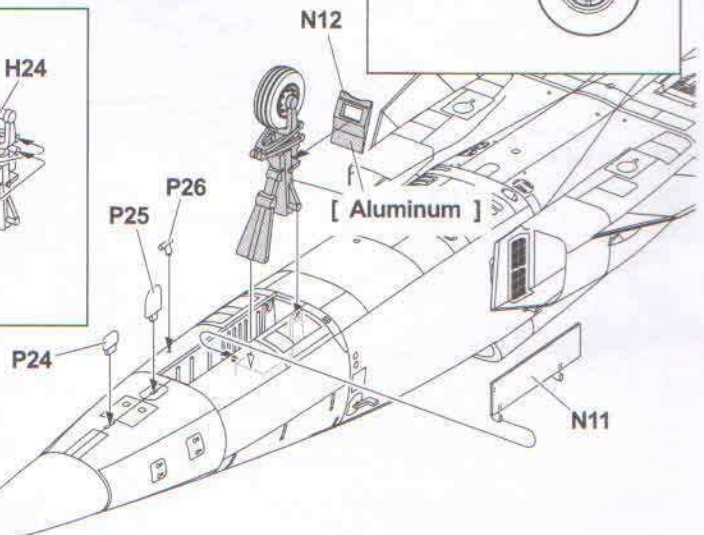
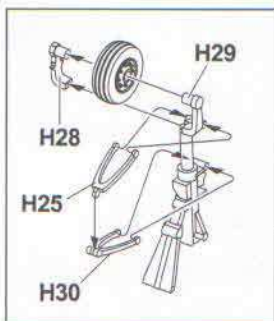
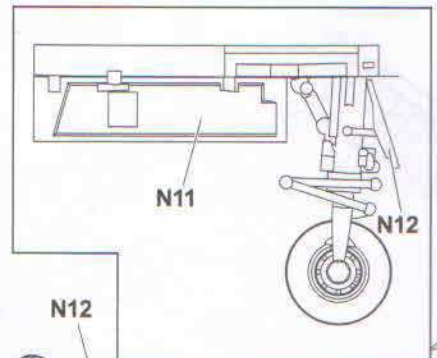
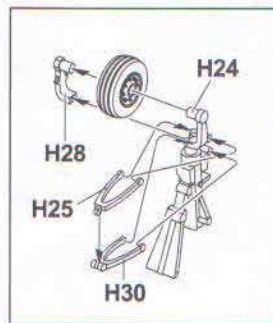
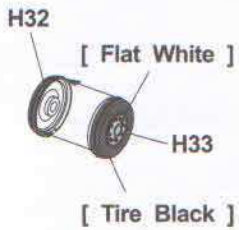


Note nozzle the direction of.
請注意方向

9

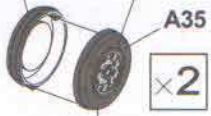


10



11

A36 [Aluminum]



[Tire Black]

[Aluminum]

[Aluminum]

A31

H34

A29

H7

A29

H34

A14

A16

A22

[Aluminum]

A31

A31

[Aluminum]

A14

H35

A16

A29

H8

[Aluminum]

A22

P21

[Flat Black]

N2(Close)

N8(Open)

N9(Open)

[Flat White]

[Flat Red]

N1(Close)

[Aluminum]

H18

[Aluminum]

H18

A21

H16

A21

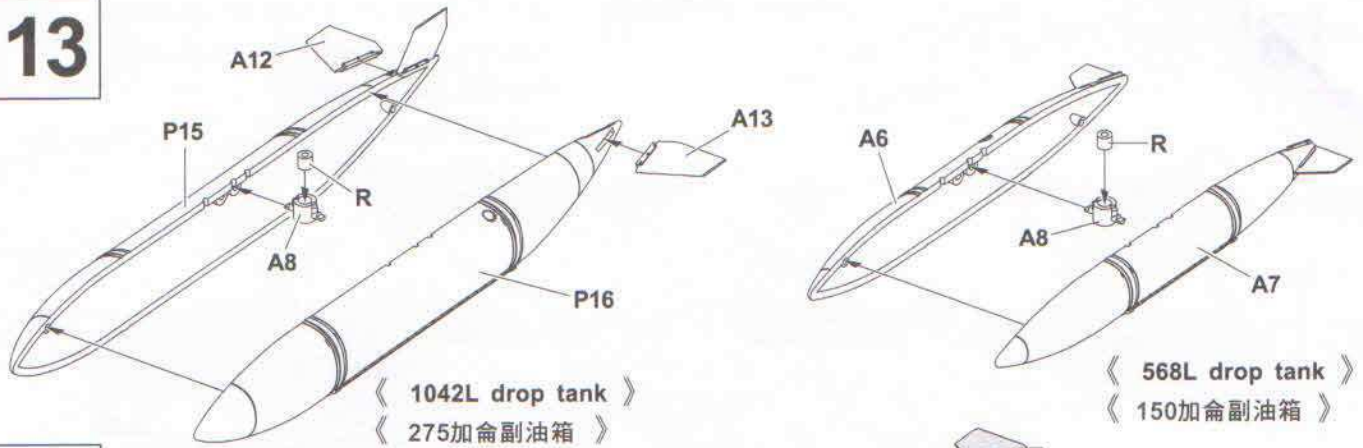
[Aluminum]

H16

I5

I4

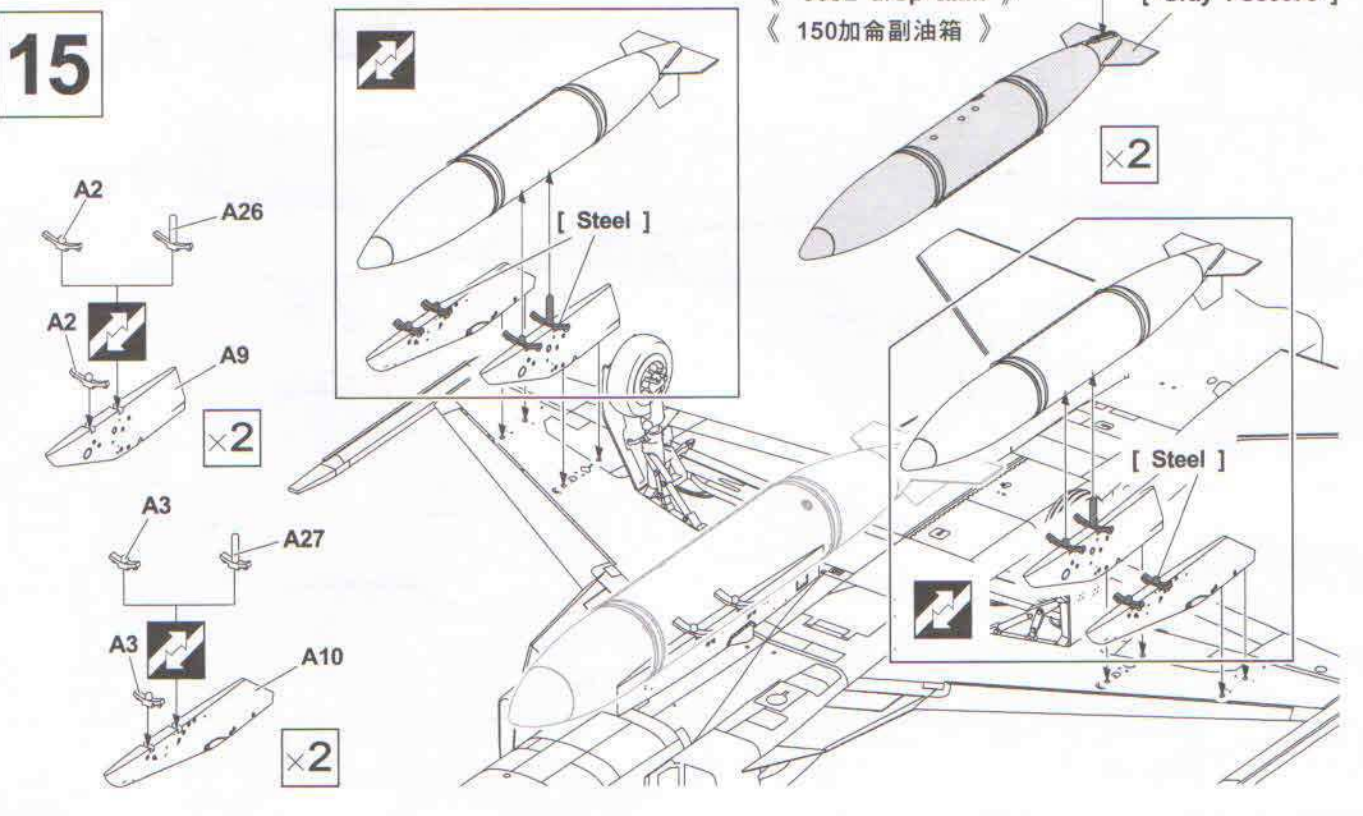
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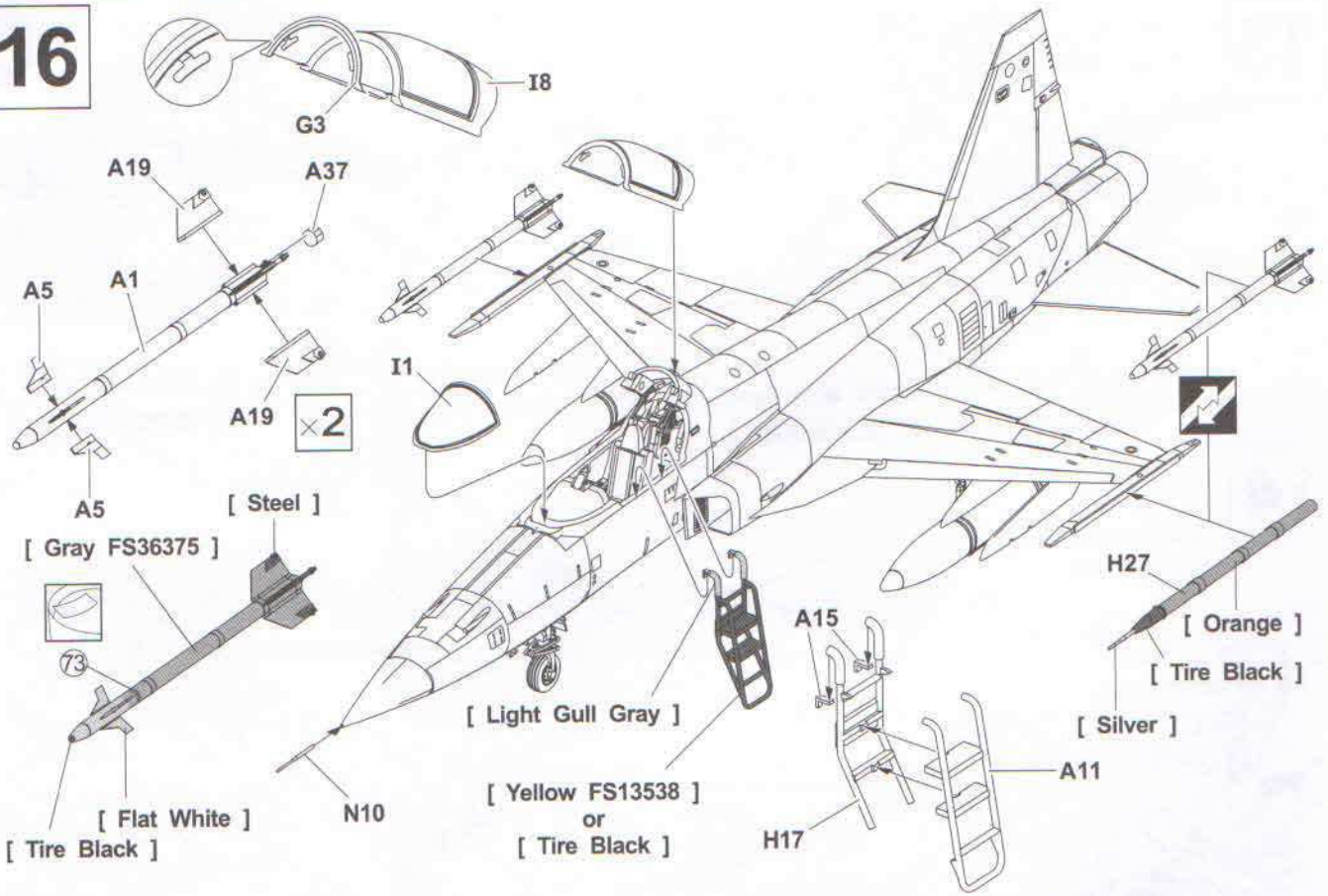
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15



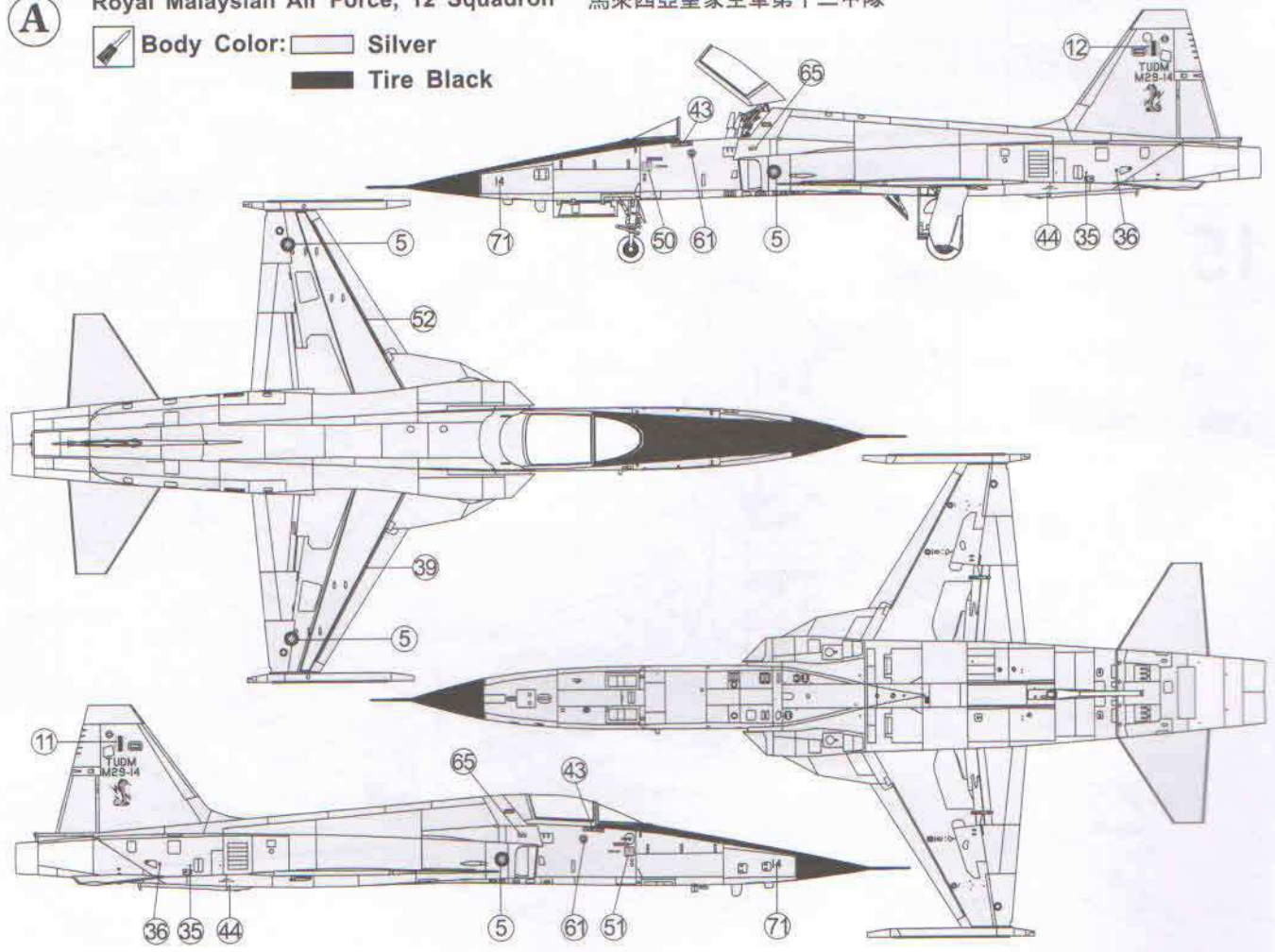
16



A

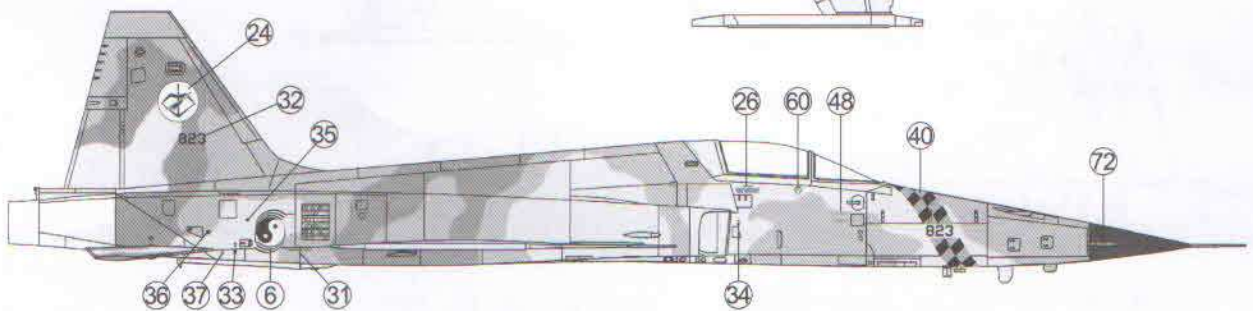
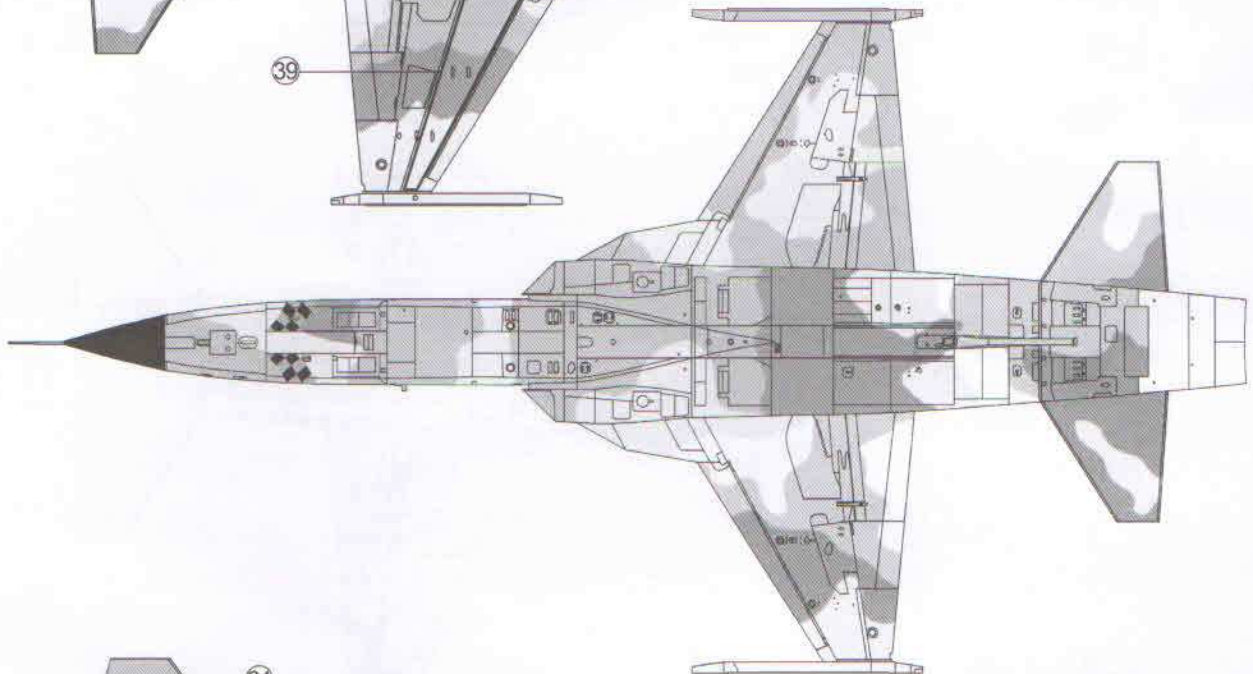
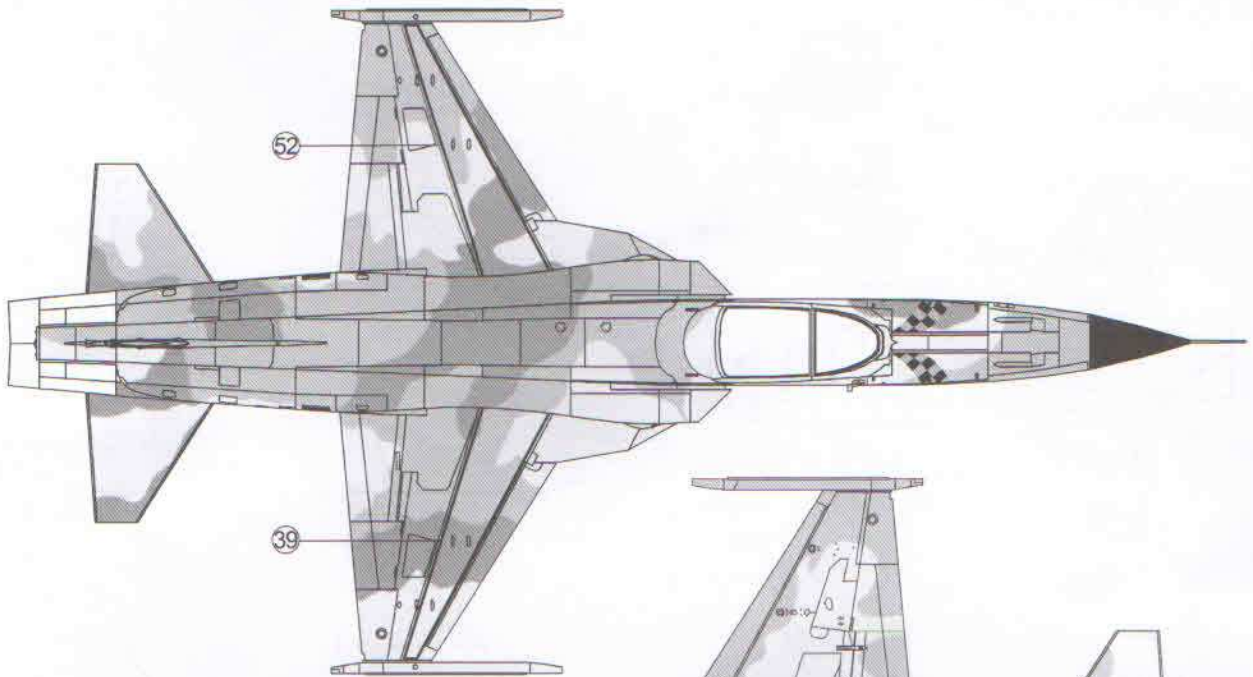
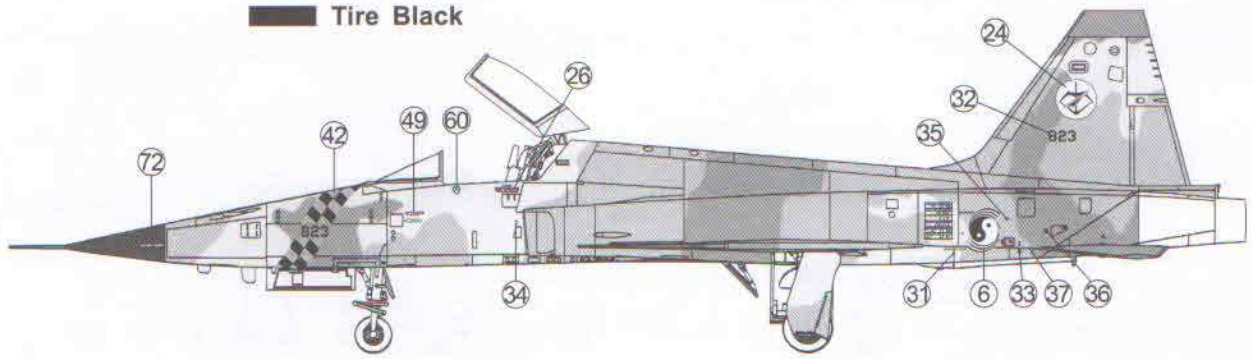
Royal Malaysian Air Force, 12 Squadron 馬來西亞皇家空軍第十二中隊

Body Color: Silver
 Tire Black



B

Singapore Air Force, No.144 Squadron 新加坡空軍第一一四中隊

Body Color:  Gray FS36320 Gray FS36270 Gray FS36375 Tire Black

©

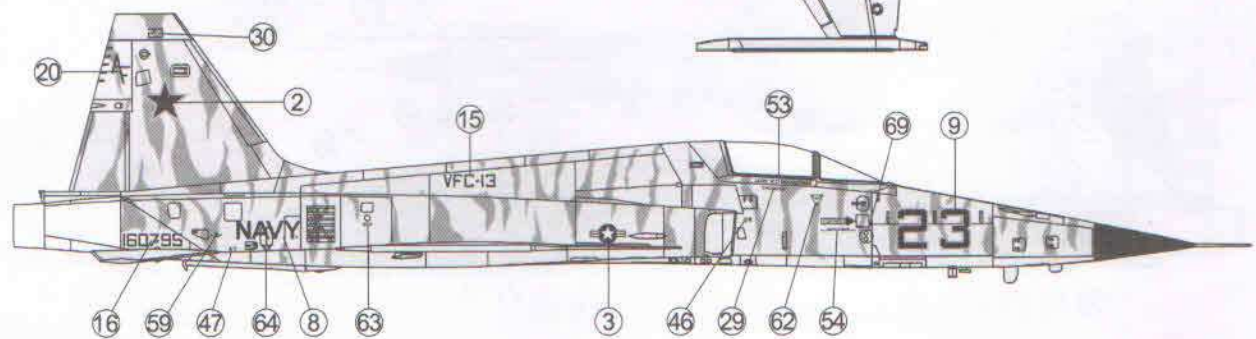
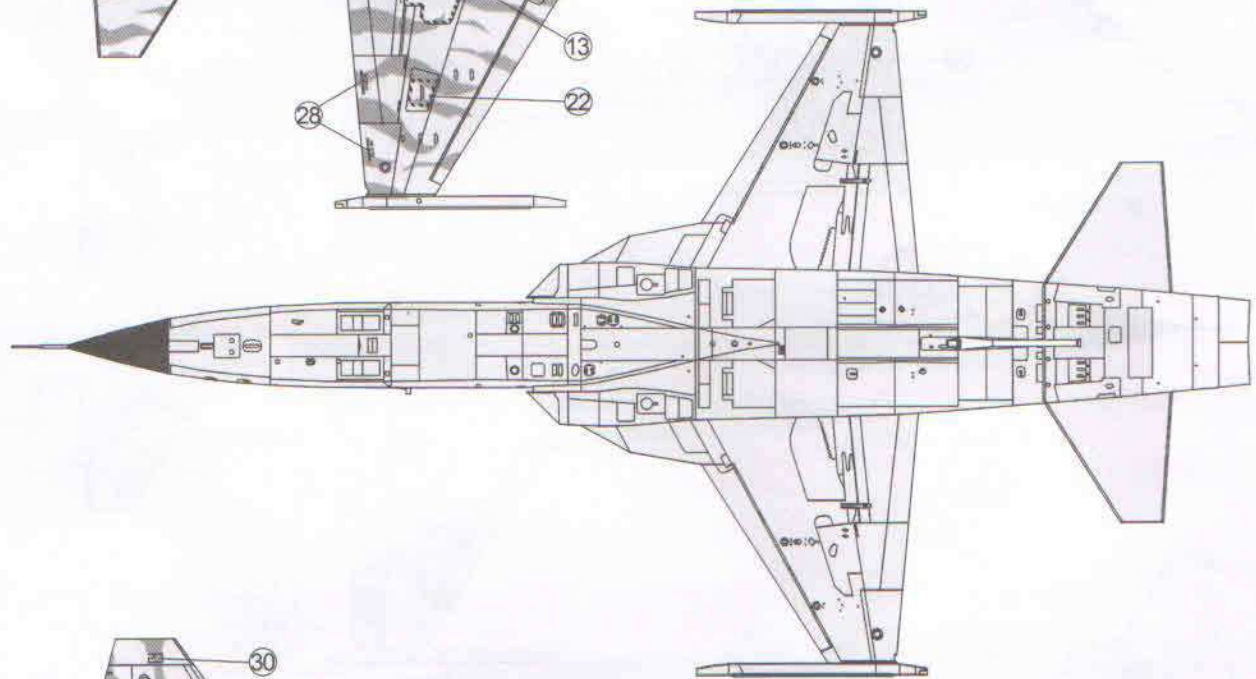
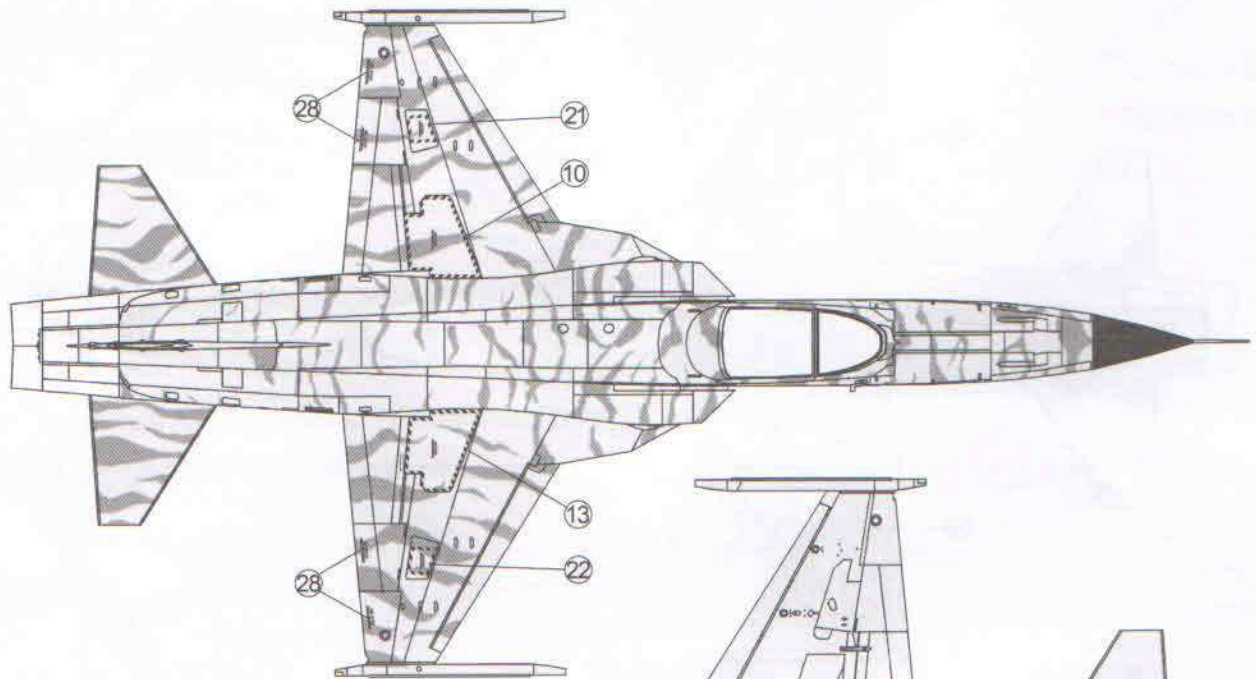
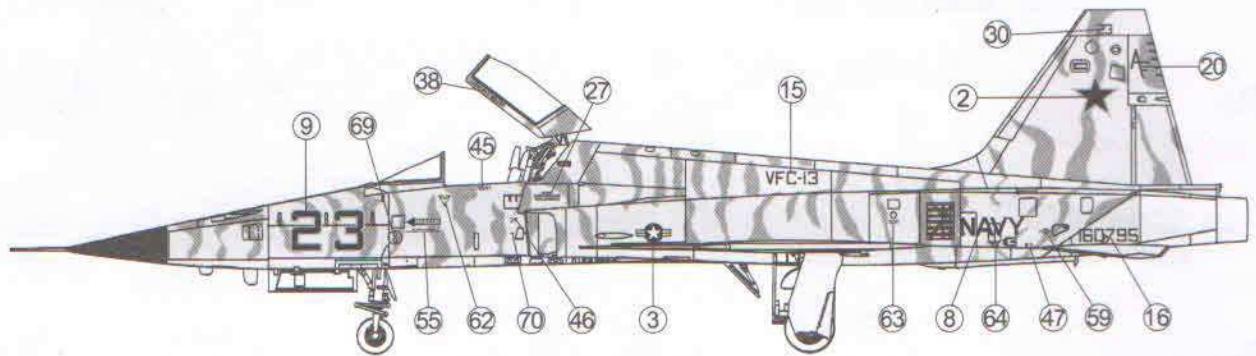
US NAVY, VFC-13 美國海軍假想敵中隊



Body Color: ■ Earth Red FS30117

■ Desert Pink FS30279

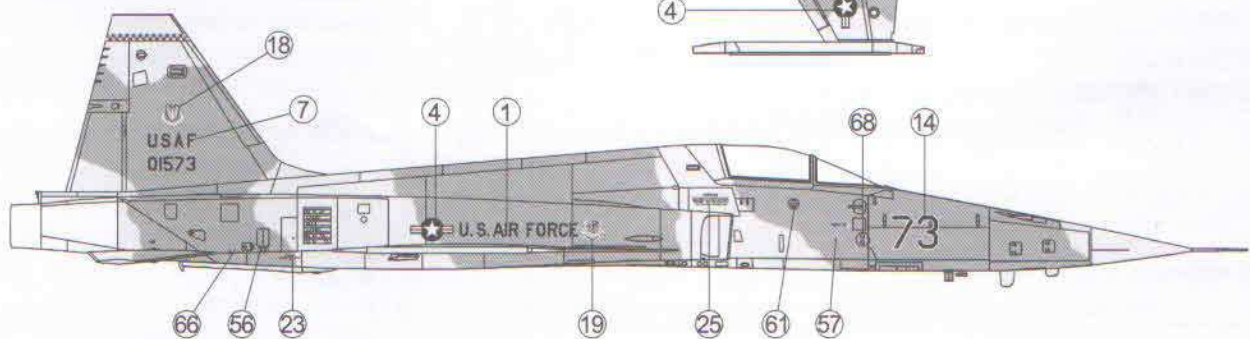
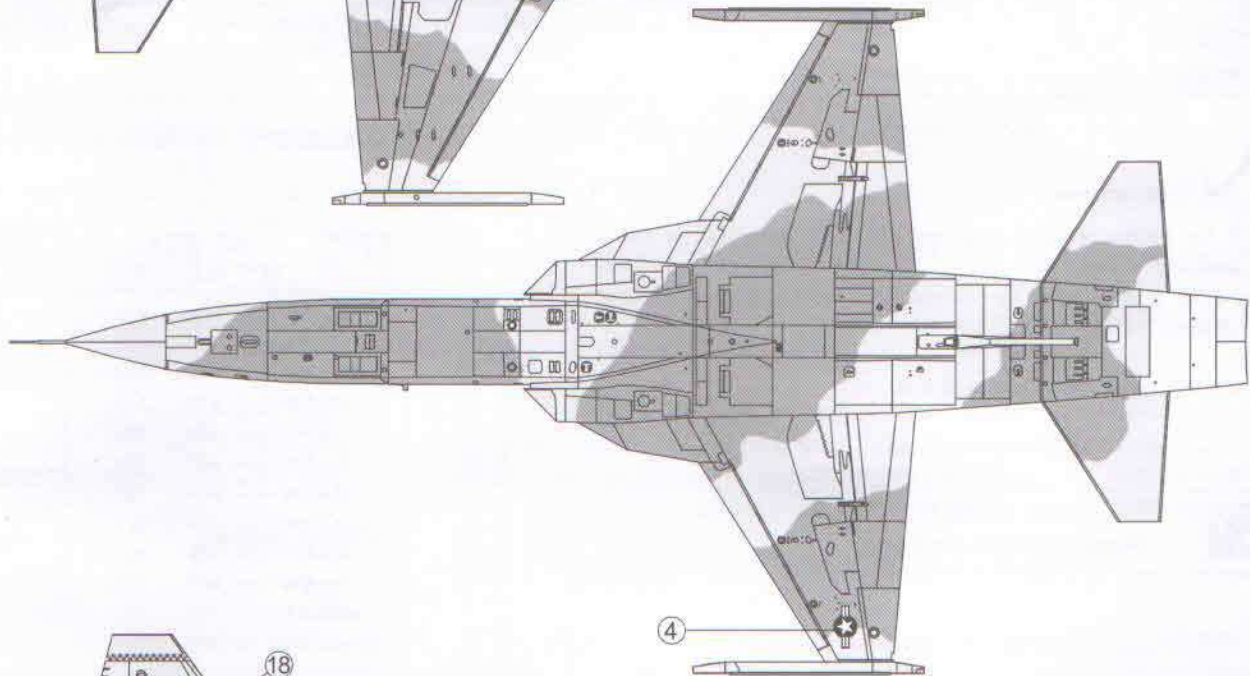
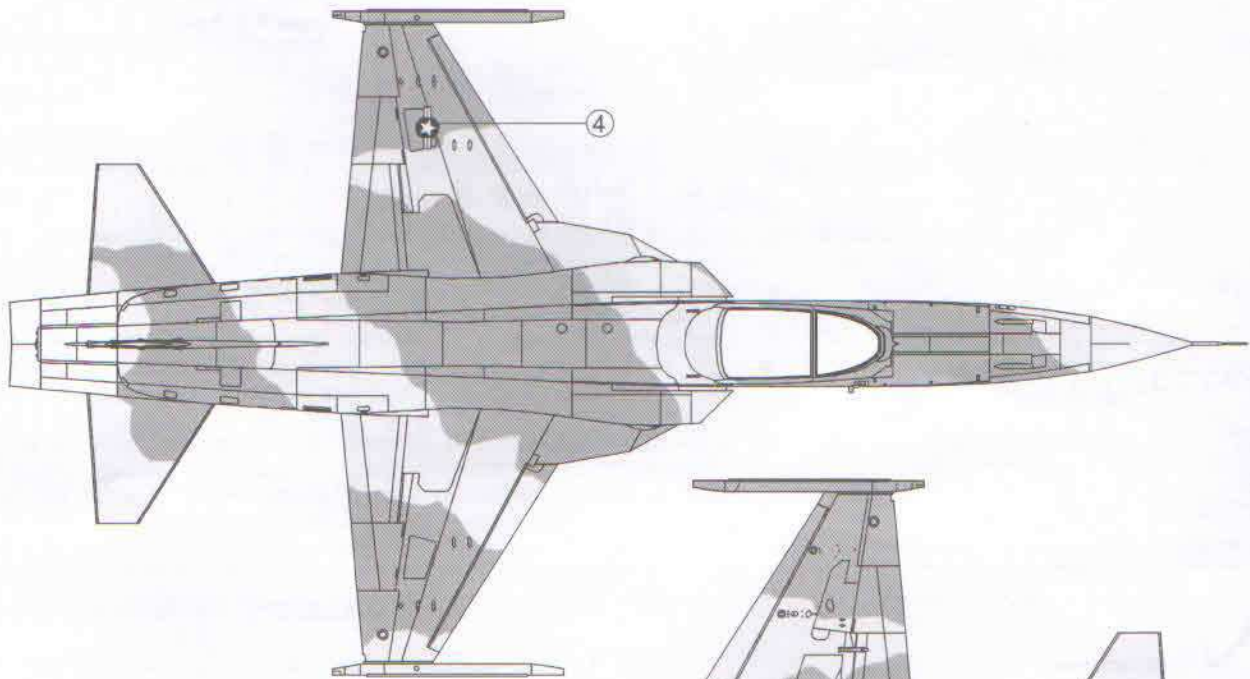
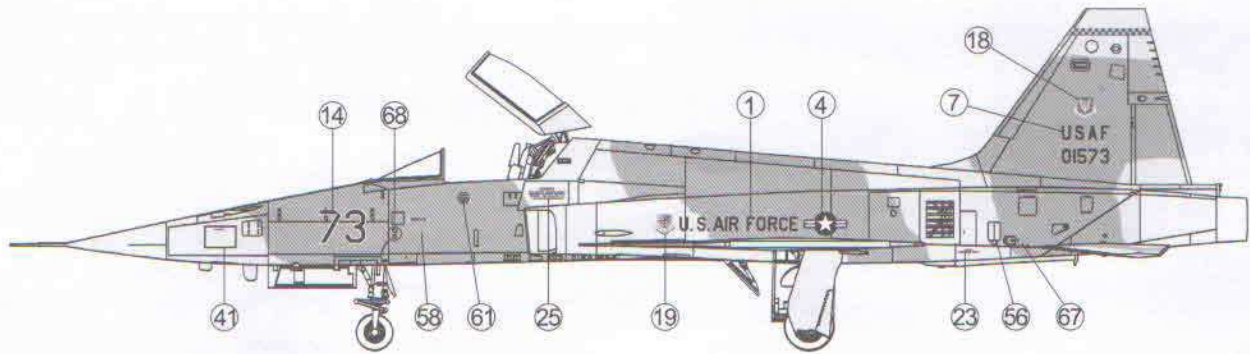
■ Tire Black



D

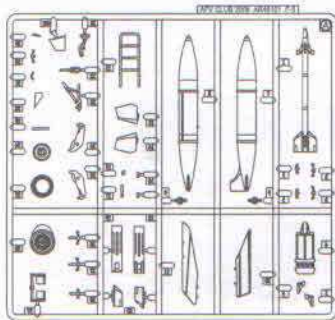
US Air Force, 64th FWS 57th FWW 美國空軍第五十七聯隊,第六十四假想敵機中隊

Body Color:  FS30117 Mix FS33613, 8:1  Tire black
 FS33613 Mix FS30117, 6.4:1  Yellow

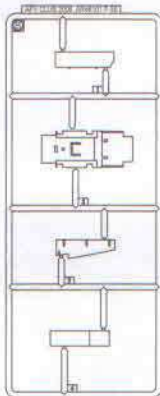


PARTS LIST 零件表

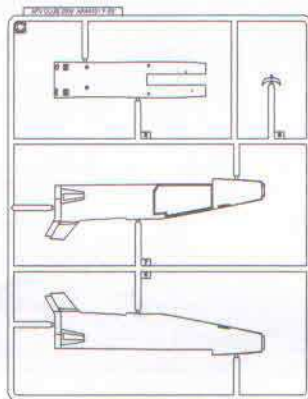
A X2



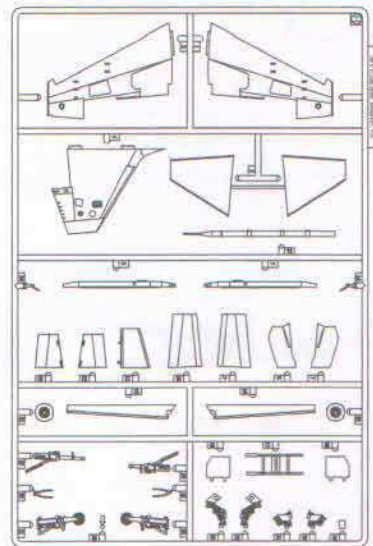
B X1



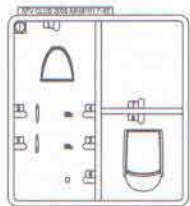
C X1



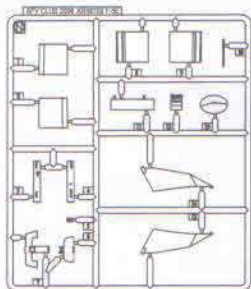
H X1



I X1



N X1



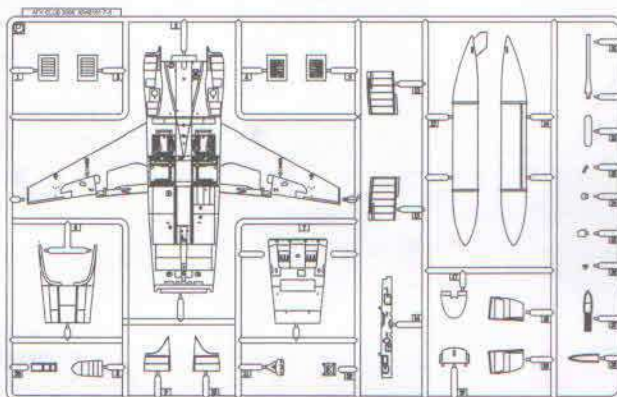
G X1



R X1

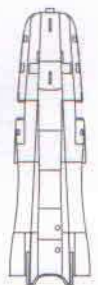


P X1

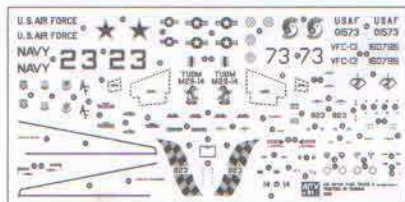


T X1 00

S X1



J X1



Instructions:

If for some reason, you are not fully satisfied or have questions concerning our product; Please use the form provide, and send it to our nearest representative or mail it directly to our office.

We will deal with that A.S.A.P.

限臺灣地區使用 For Taiwanese use only!



AR 48102 Parts Replacement Form

- | | |
|----------------------------------|----------------------------------|
| <input type="checkbox"/> A parts | <input type="checkbox"/> N parts |
| <input type="checkbox"/> B parts | <input type="checkbox"/> J parts |
| <input type="checkbox"/> C parts | <input type="checkbox"/> P parts |
| <input type="checkbox"/> G parts | <input type="checkbox"/> R parts |
| <input type="checkbox"/> H parts | <input type="checkbox"/> S parts |
| <input type="checkbox"/> I parts | <input type="checkbox"/> T parts |

Reason for replacement: Missing
 Broken

Signature: _____



AR 48102 零件補充申請表

申請人
姓名 地址 電話

- | | |
|---------------------------------|----------|
| <input type="checkbox"/> A 部品零件 | NT\$ 400 |
| <input type="checkbox"/> B 部品零件 | NT\$ 200 |
| <input type="checkbox"/> C 部品零件 | NT\$ 250 |
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| <input type="checkbox"/> R 部品零件 | NT\$ 150 |
| <input type="checkbox"/> S 部品零件 | NT\$ 150 |
| <input type="checkbox"/> T 部品零件 | NT\$ 100 |

+郵寄費 NT\$ 80

(請填)總計NT\$ _____

零件補充原因:(請於 打)
原包裝即 遺失或 毀損,
製作途中 遺失或 毀損,
其他原因 _____

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