



# MiG-31 BM/BSM

## Mikoyan Foxhound



**1/48 UNASSEMBLED MODEL KIT**

**INSTRUCTIONS**





# Mikoyan MiG-31 BM / BSM Foxhound

米格31戰鬥機

"The Mikoyan Gurevich MiG-31 (NATO reporting name: "Foxhound") is a supersonic interceptor designed to replace the MiG-25 Foxbat.

The project officially started in 1968 and was initially seen as a heavy modernization of the MiG-25P.

However, as the development continued it became clear it would become a completely new aircraft, only sharing the overall mission of being a supersonic interceptor.

The first prototype (at that point still known as MiG-25PM) made its maiden flight on September 16<sup>th</sup> 1975.

One of the main requirements of the new interceptor was the ability to track bomber sized targets at 120, and fighters at 90 kilometers

In order to meet this demand a very advanced and powerful radar was needed and it was decided to base the radar on phased array technology.

The radar, called "Zaslon", became the first phased array radar to be fitted, and operationally used, on a fighter aircraft.

The MiG-31 was required to cruise at Mach 2.35 and have a combat radius of 700 kilometers at that speed. Maximum speed is Mach 2.83.

The variant depicted in this kit is the modernized "MiG-31BM". The modernization consists of upgrades to the Zaslon radar, cockpit (in particular for the Weapons Systems Officer) and weapons.

Tracking range of Zaslon more than doubled after the upgrades. The number of weapon hardpoints under the wings has increased from two to four and MiG-31BM is now utilizing the R-73 instead of the outdated R-60 short range missile.

Further expansion of its armament will see the addition of the R-77-1 and R-37M (export designation RVV-BD) where the later will offer around twice as much range as the R-33 long range missile currently in use.

Outside of Russia the only other operator of the Foxhound is the Kazakhstan Air Force.

Currently over 70 aircraft have undergone modernization to BM-standard and the aircraft are expected to serve in the Russian Air Force till at least 2025."

--By Anton and Koen

米高揚、格列維奇，米格-31(北約代號:"獵狐犬")，本來是用於取代米格-25狐蝠戰鬥機而設計的新型超音速截擊戰鬥機，此項目正式開展於1968年，當時人們將此項目視為是米格-25的重型現代化新定向。然而，隨著技術的不斷發展，此項目很明顯地已開發出了一款全新的戰鬥機，而其當時的主要任務只是用於承擔超音速截擊。米格-31的原型(當時仍然被稱為米格-25PM)在1975年9月16日進行了首次飛行。

作為一款新型截擊戰鬥機，其主要能力之一就是能夠追蹤到在半徑120公里範圍內與轟炸機體型大小相近的飛機，以及能偵察到半徑90公里範圍內的其他戰鬥機。為了滿足這種要求，需要非常先進和強大的雷達設備及雷達基地所提供的相控陣技術支持。米格-31是第一款配備了相控陣技術雷達(Zaslon)並且正式投入使用的戰鬥機。米格-31截擊戰鬥機正常飛行時的速度為2.35馬赫，在此速度下，其作戰半徑範圍為700公里，最高飛行速度可以達到2.83馬赫。

現代化"米格-31BM"是基本裝備的變種形態，其現代化包括了對Zaslon雷達、座艙(尤其是對武器系統管理)和對武器配備的升級。在升級之後Zaslon雷達的跟蹤範圍增加了一倍以上。機翼下的武器掛載點數目也從2個增加到了4個，而且米格-31BM現在搭載的導彈為R-73，而不是過時的R60短程導彈，同時為了提升戰鬥力，日後將會增加搭載R-77-1和R-37M(出口指定RVV-BD)導彈，其攻擊的距離差不多與現在使用中的R-33長程導彈一致。

除了俄羅斯以外，唯一在使用"獵狐犬"戰機的國家就是哈薩克斯坦空軍，目前已經超過70台戰機經歷了現代化的轉變，由此看來，這些戰機至少還可以為俄羅斯服役至2025年。



This kit provides a choice of 4 types of markings. Select one before assembly.  
 本模型提供4種塗裝，請於組裝前選擇合適的塗裝。

**A** MiG-31BM "34 Red" - Ivan Pilipenko, Russian AF



**B** MiG-31BM "93 Blue" Russian AF, Moscow - Zhukovsky (Ramenskoye) 2009



**C** MiG-31BM "93 Blue" Russian AF, Moscow - Zhukovsky (Ramenskoye) 2013



**D** MiG-31BSM "25 Red" Russian AF, Akhtubinsk AB 2014



- ★ 產品不適合8歲以下的兒童。
- ★ 產品中含有帶尖點的小零件。
- ★ 對於3歲以下兒童當心因窒息產生的危害。

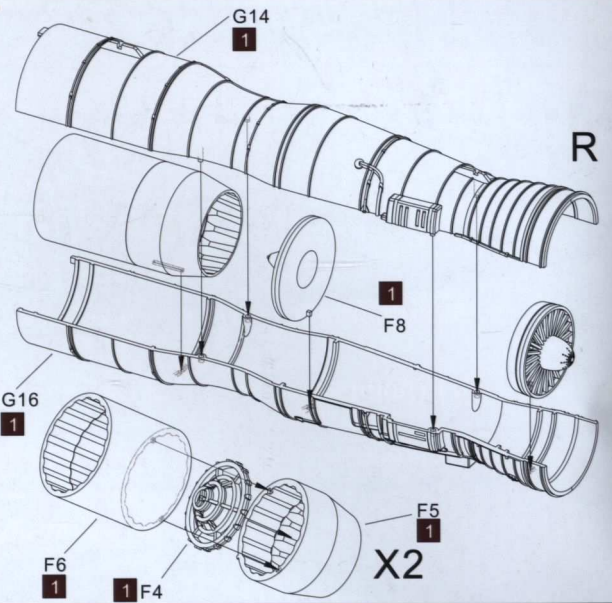
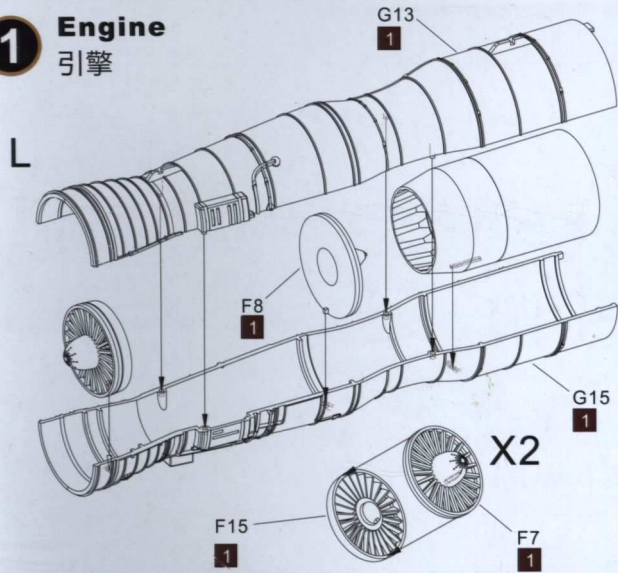
NOT SUITABLE FOR CHILDREN UNDER 8 YEARS.  
 CONTAINS FUNCTIONAL SHARP POINTS CONTAINS  
 SMALL PARTS. BEWARE OF CHOKING HAZARD OF  
 CHILDREN UNDER 3 YEARS.

### PAINT AND COLOR USED

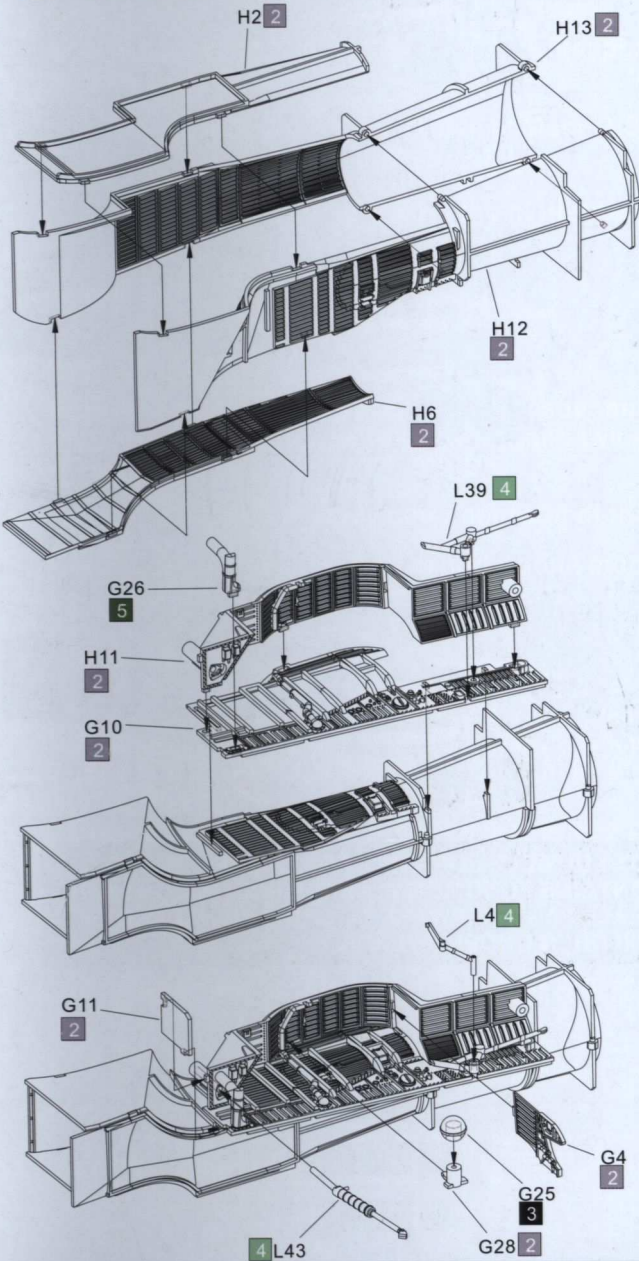
1	燒鐵色 Burning iron	2	銀色 Silver	3	黑色 Black
4	淺灰色 Light Grey	5	草綠色 Grass Green	6	交通灰色 Traffic Grey
7	綠松石藍色 Turquoise Blue	8	橙色 Orange	9	玄武岩灰色 Basalt Grey
10	紅色 Red	11	白色 White	12	金屬 Steel



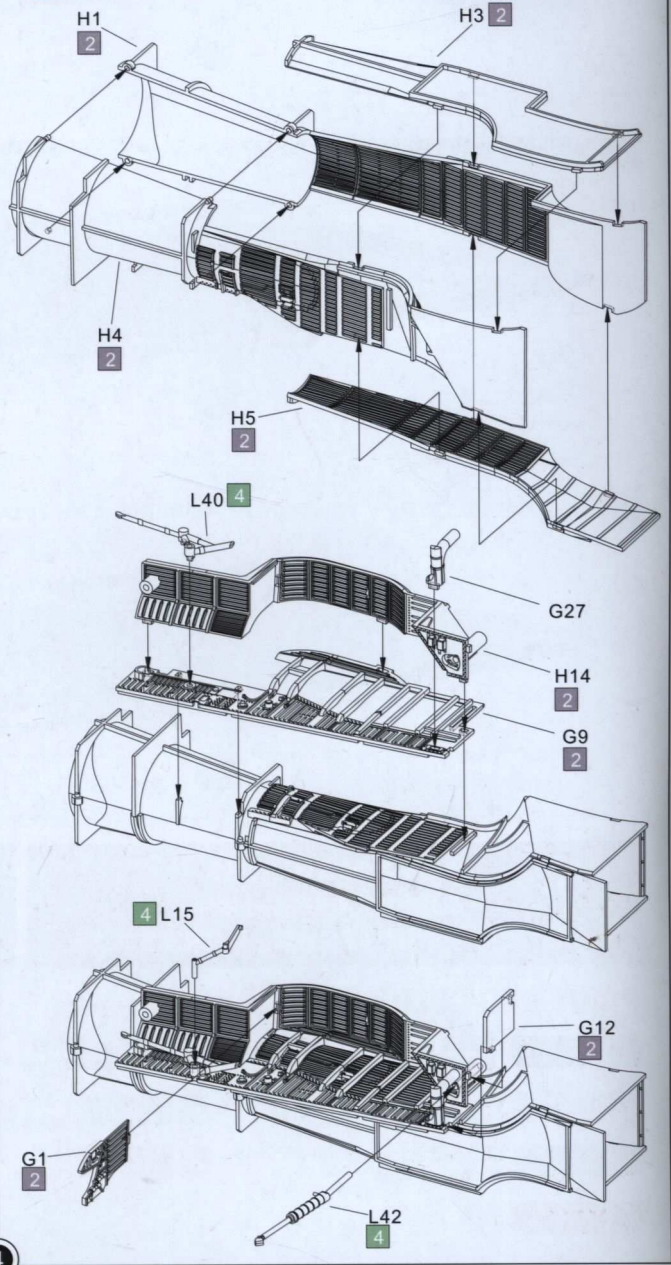
**1 Engine**  
引擎



**2 Left Intake Channel**  
左入風槽

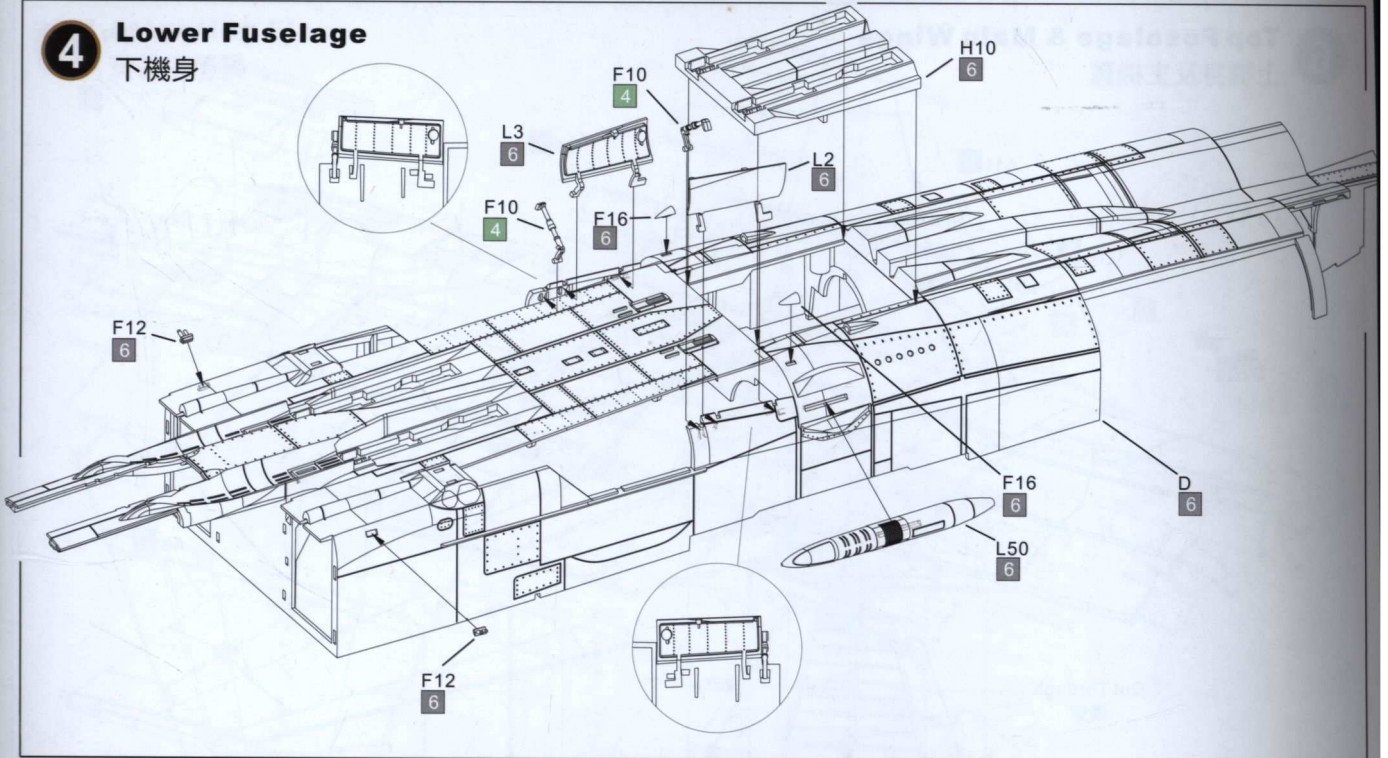


**3 Right Intake Channel**  
右入風槽

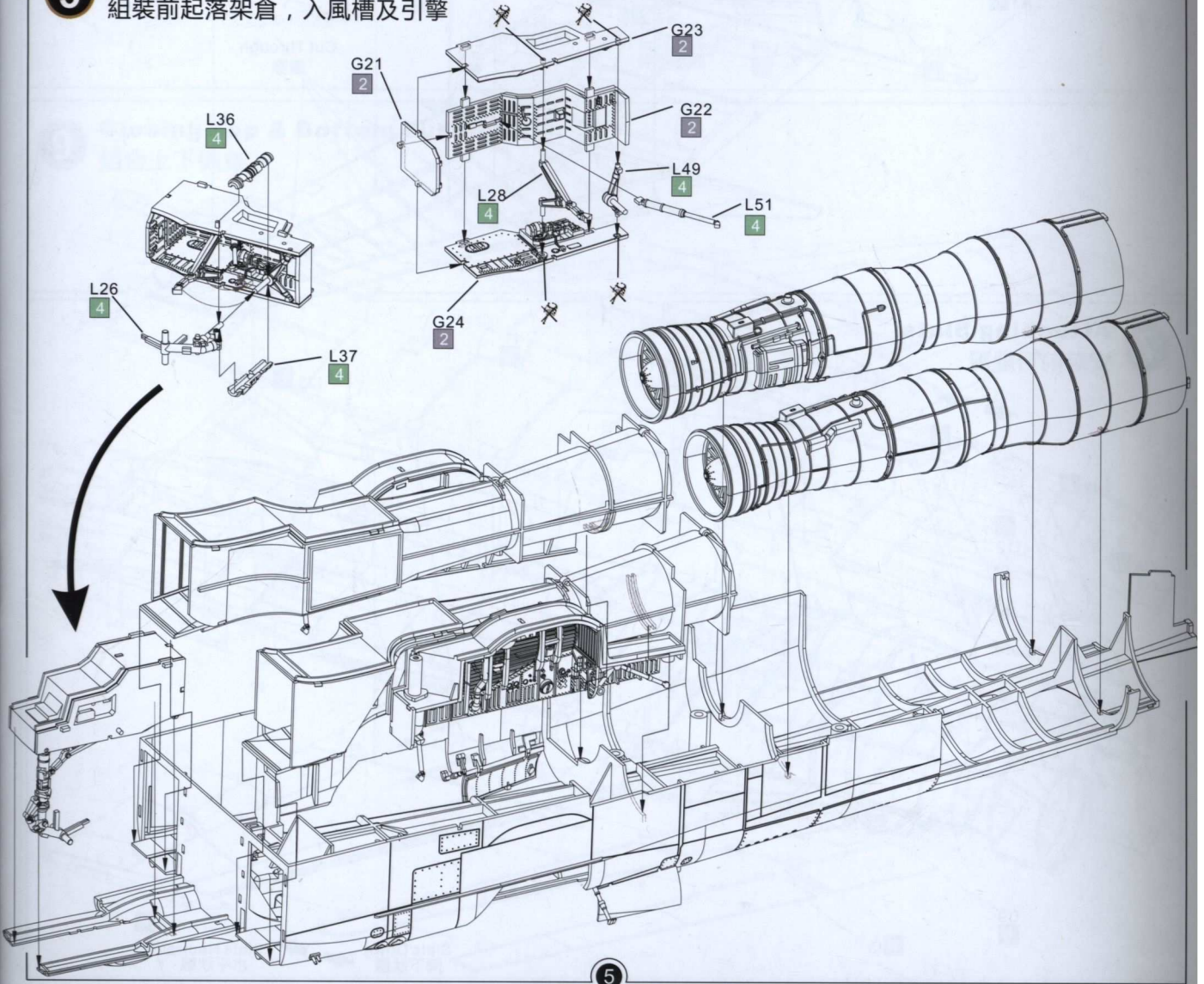




### 4 Lower Fuselage 下機身

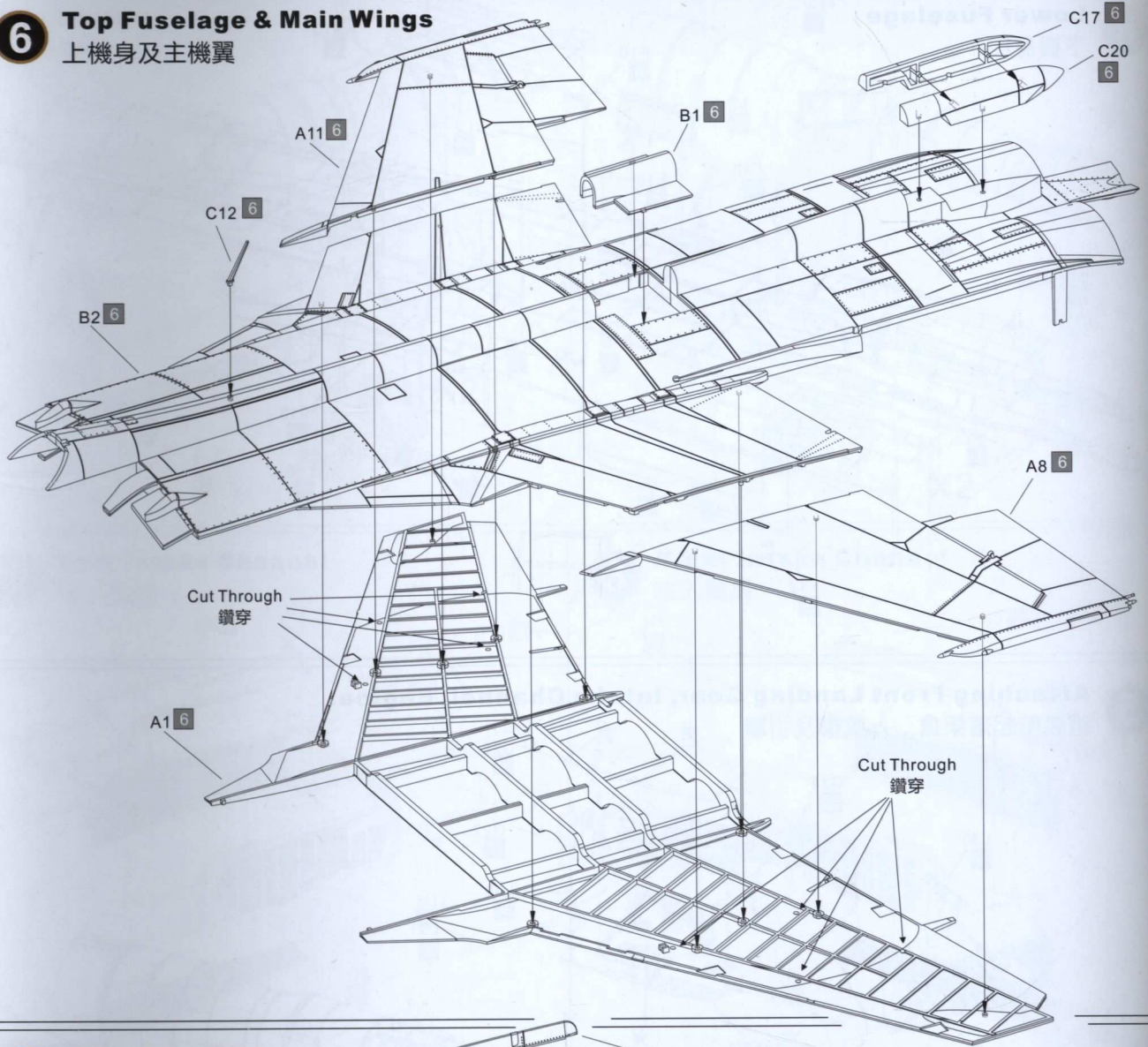


### 5 Attaching Front Landing Gear, Intake Channel, Engine. 組裝前起落架倉，入風槽及引擎

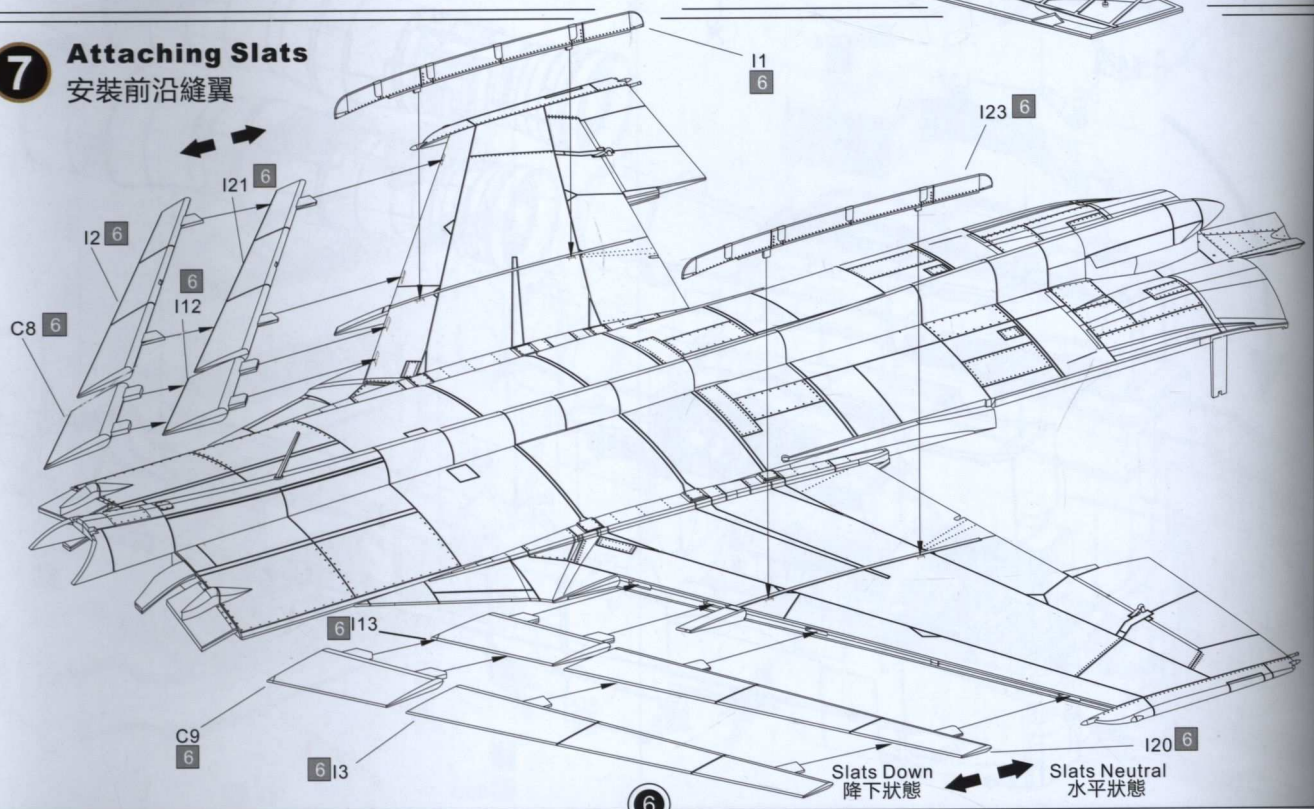




## 6 Top Fuselage & Main Wings 上機身及主機翼

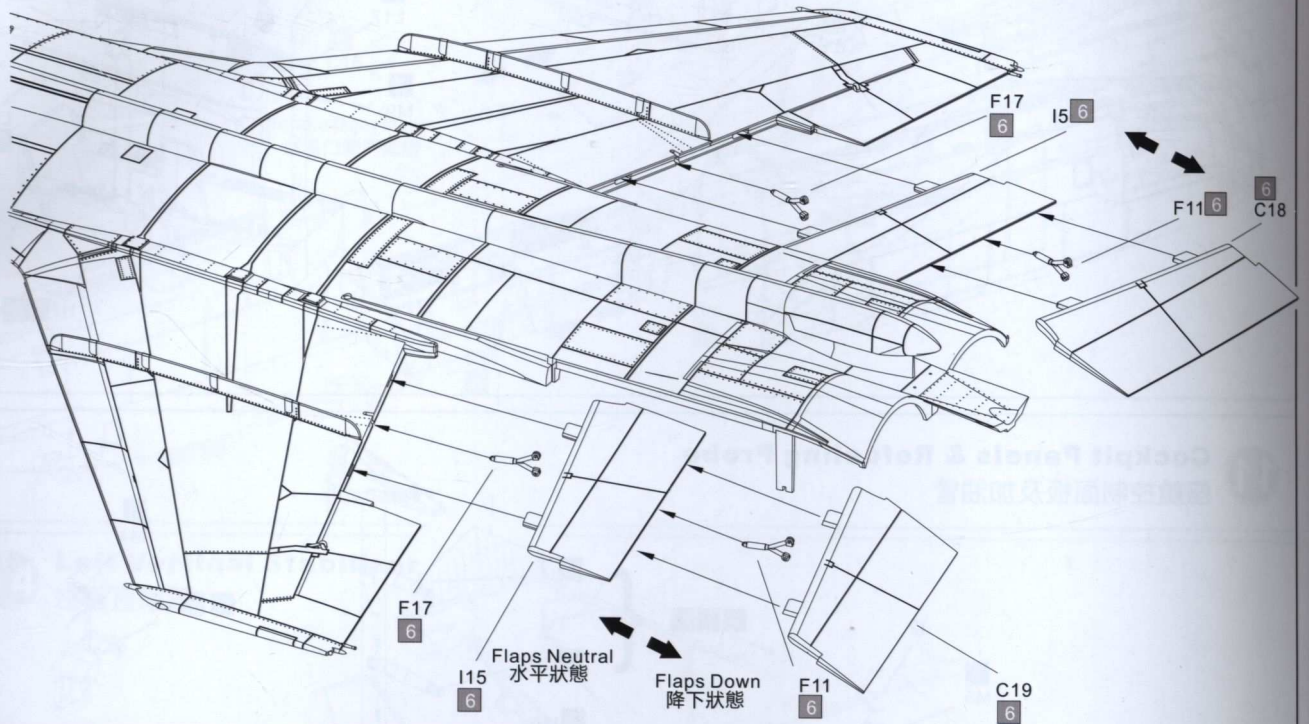


## 7 Attaching Slats 安裝前沿縫翼

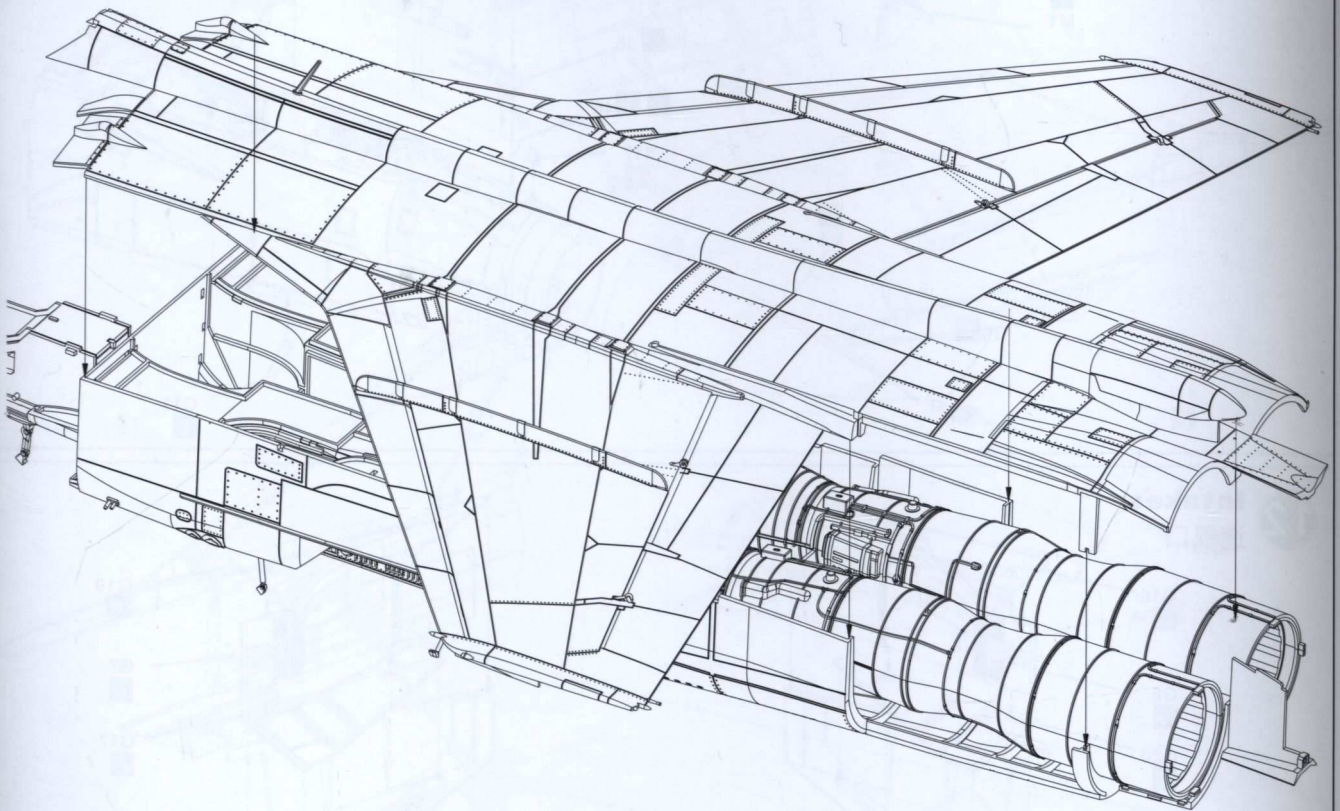




### 8 Attaching Flaps 安裝後縫翼

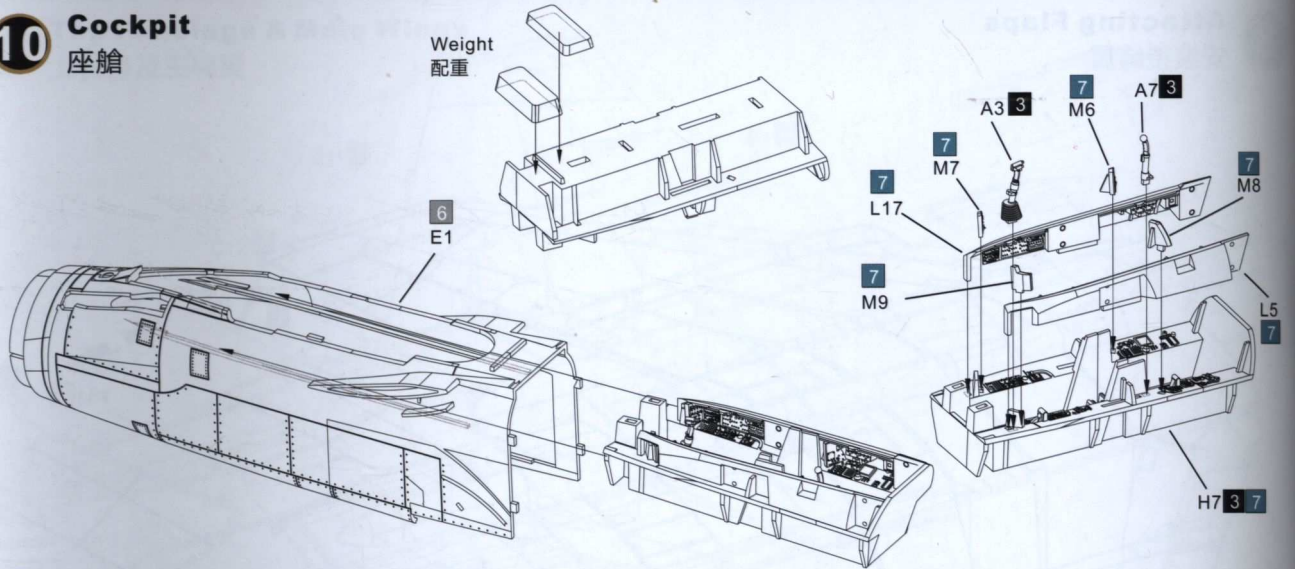


### 9 Closing Top & Bottom Fuselage 組合上下機身

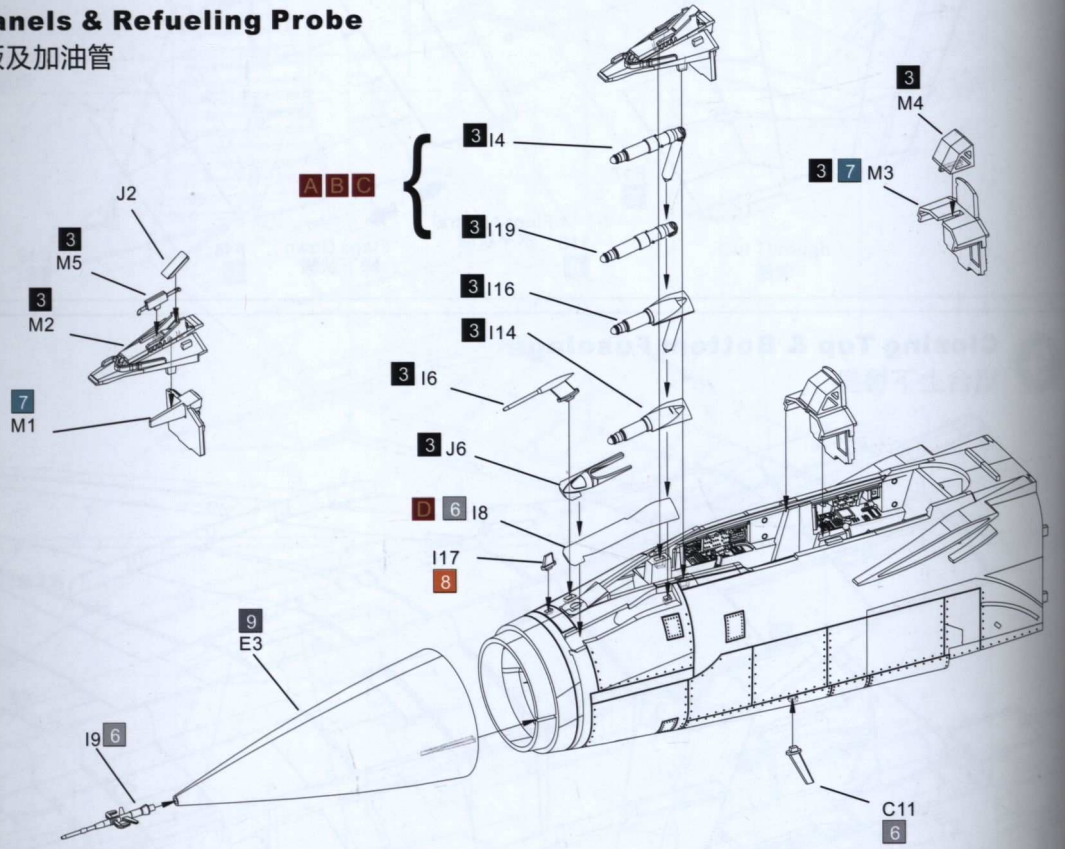




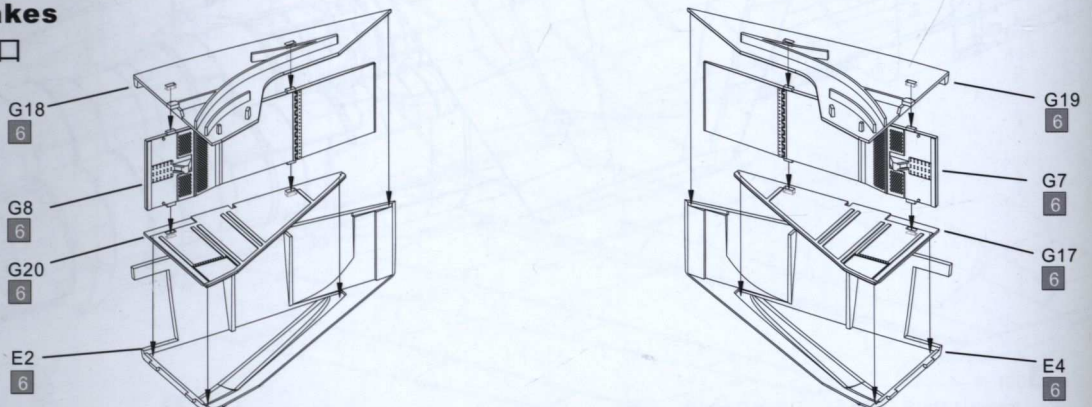
### 10 Cockpit 座艙



### 11 Cockpit Panels & Refueling Probe 座艙控制面板及加油管

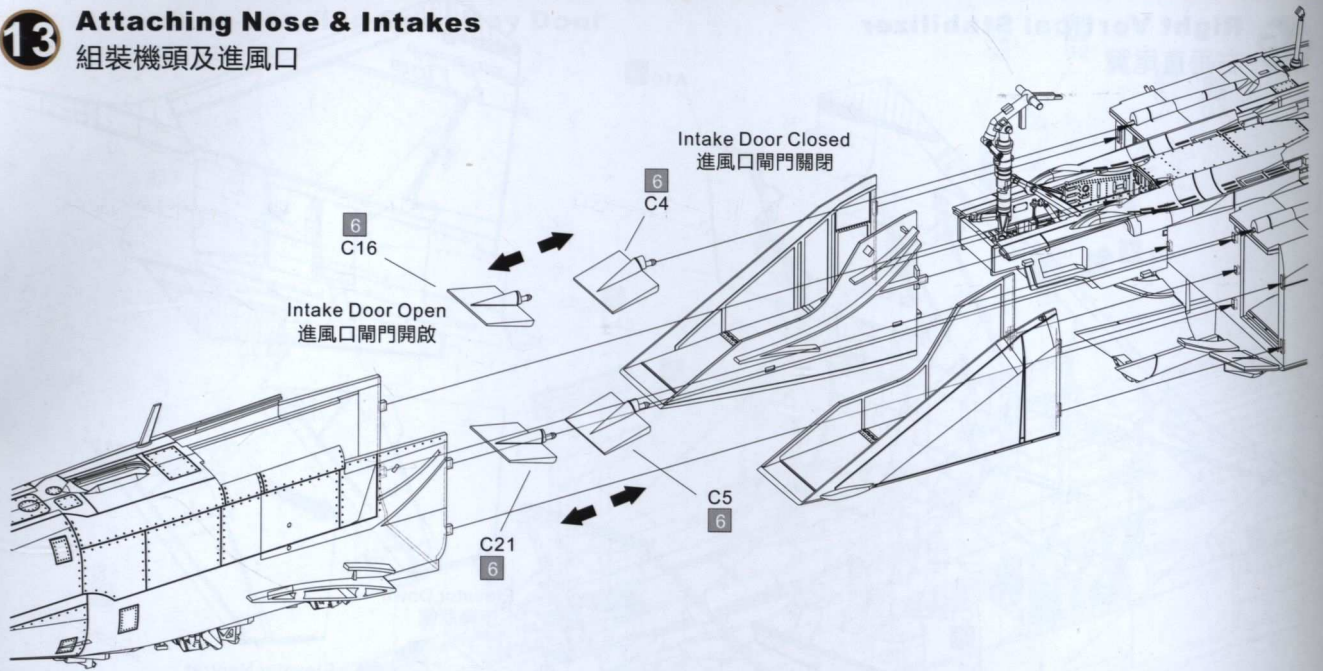


### 12 Intakes 進風口

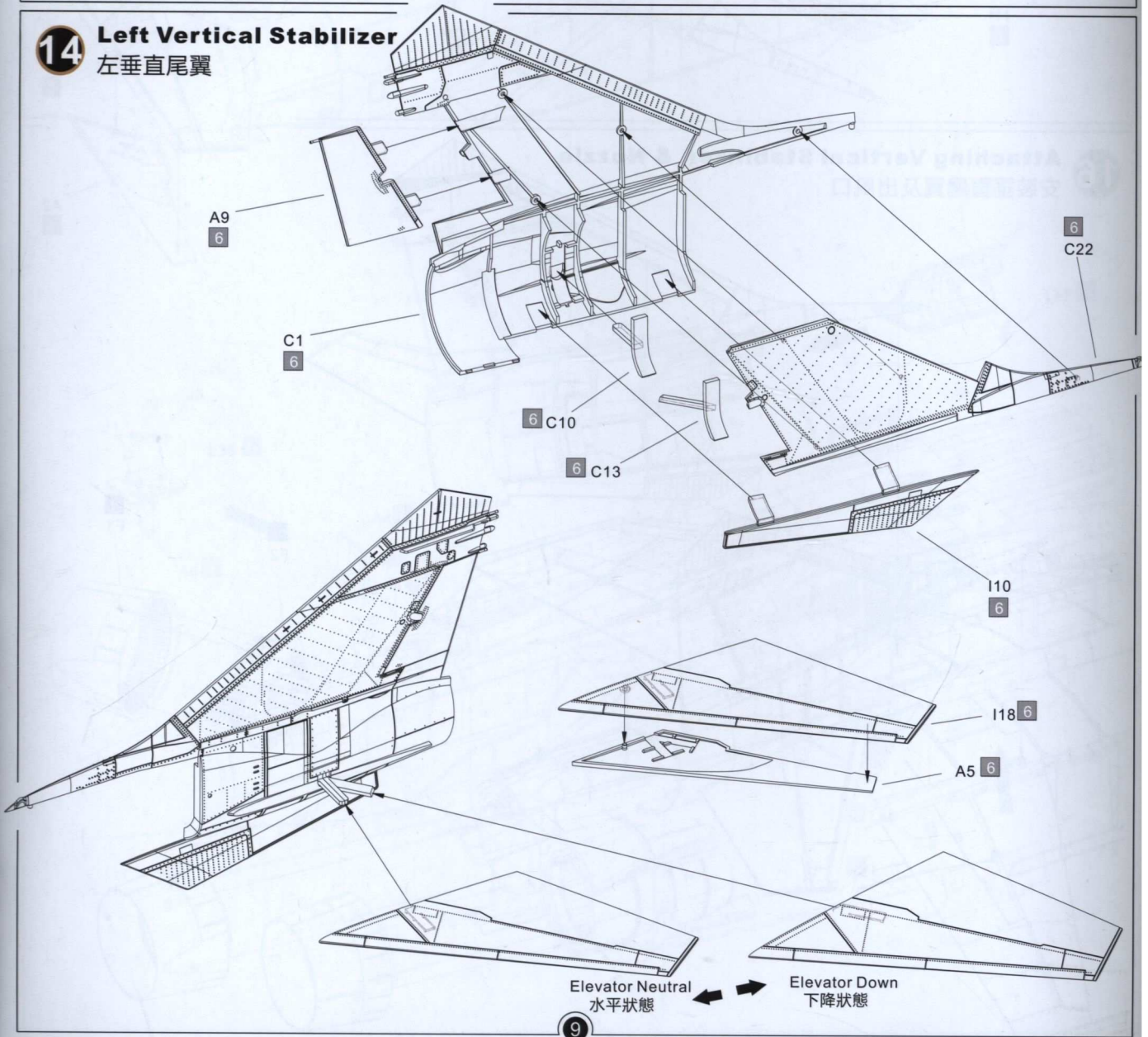




**13** Attaching Nose & Intakes  
組裝機頭及進風口

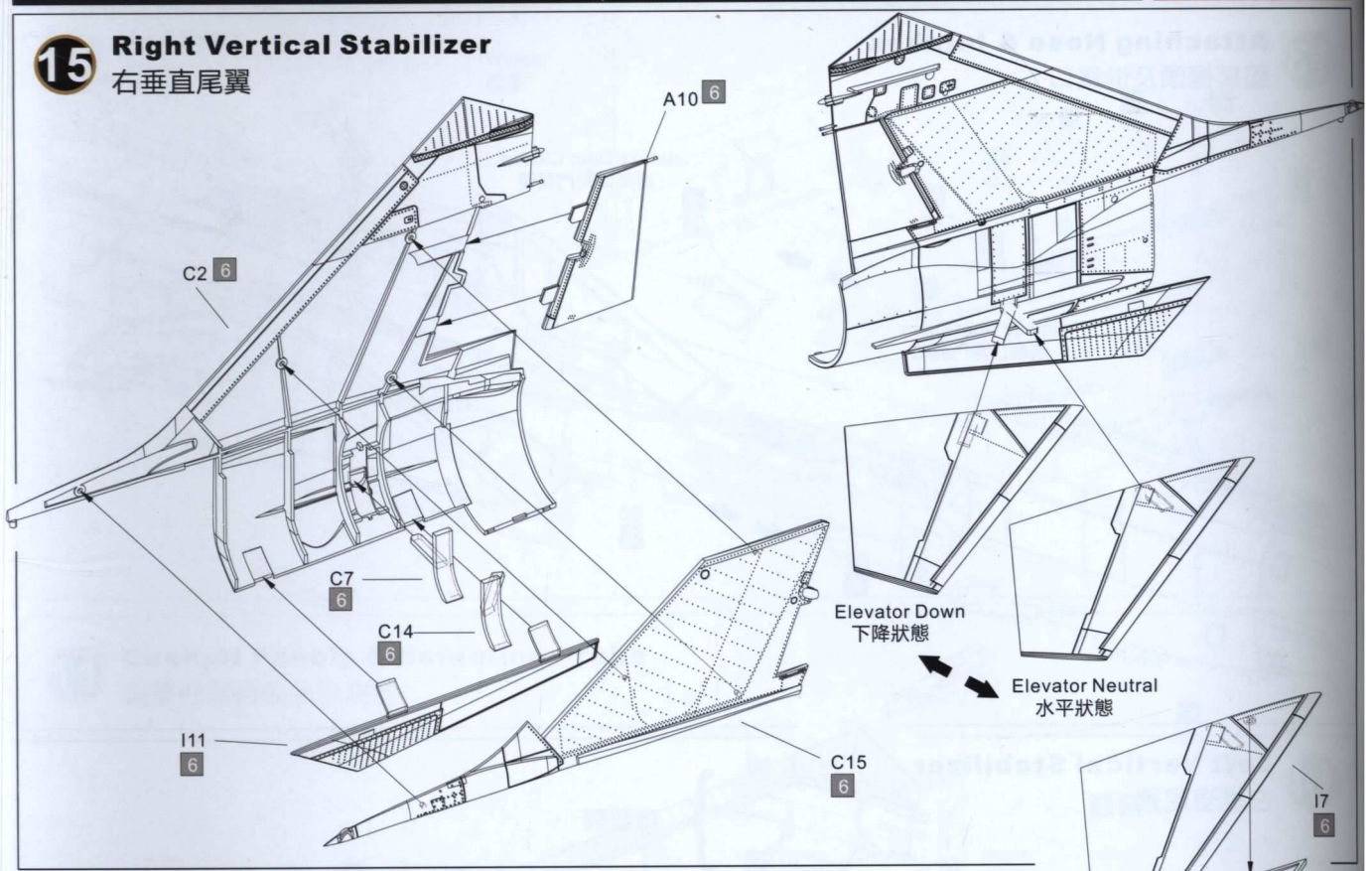


**14** Left Vertical Stabilizer  
左垂直尾翼

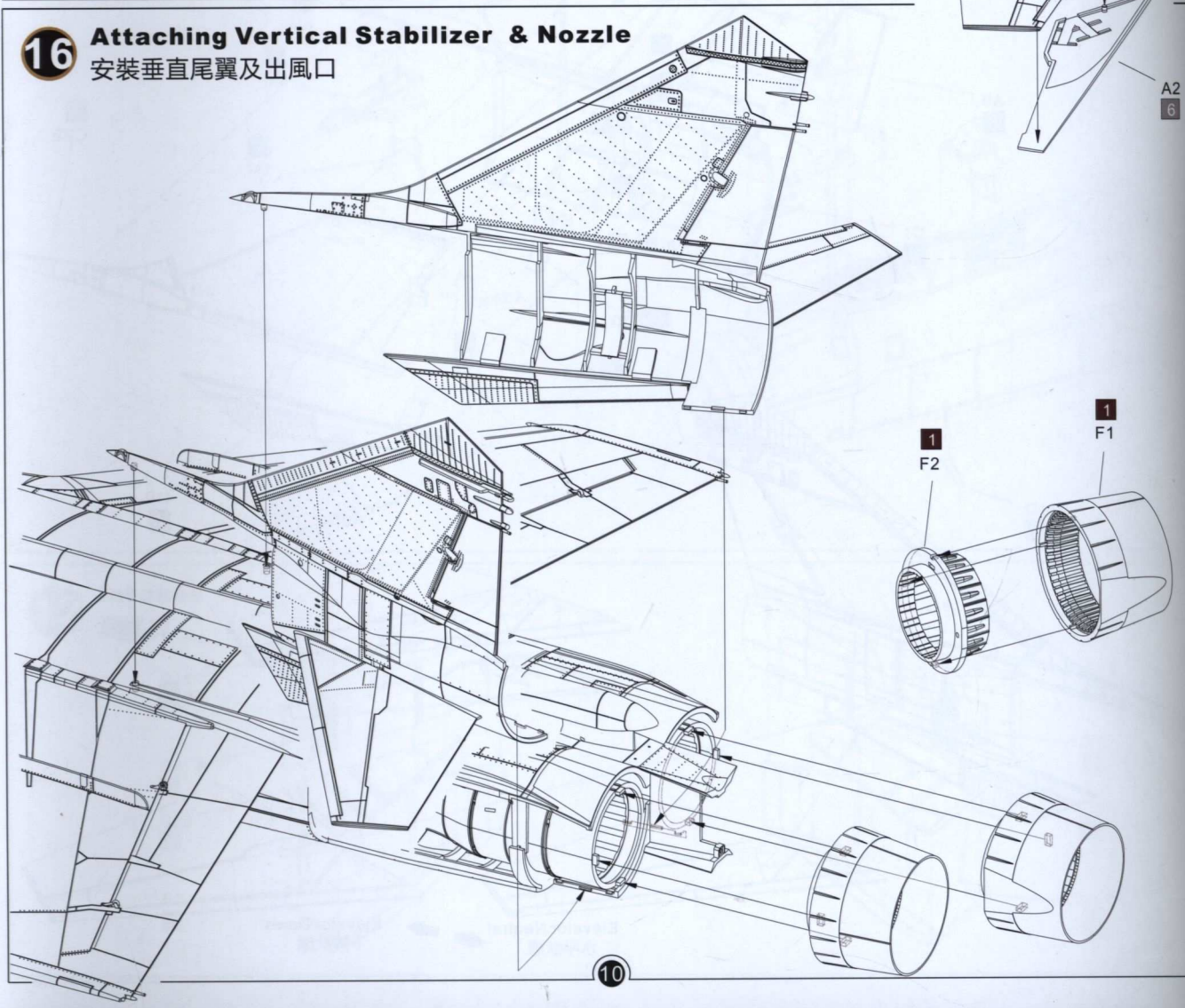




### 15 Right Vertical Stabilizer 右垂直尾翼

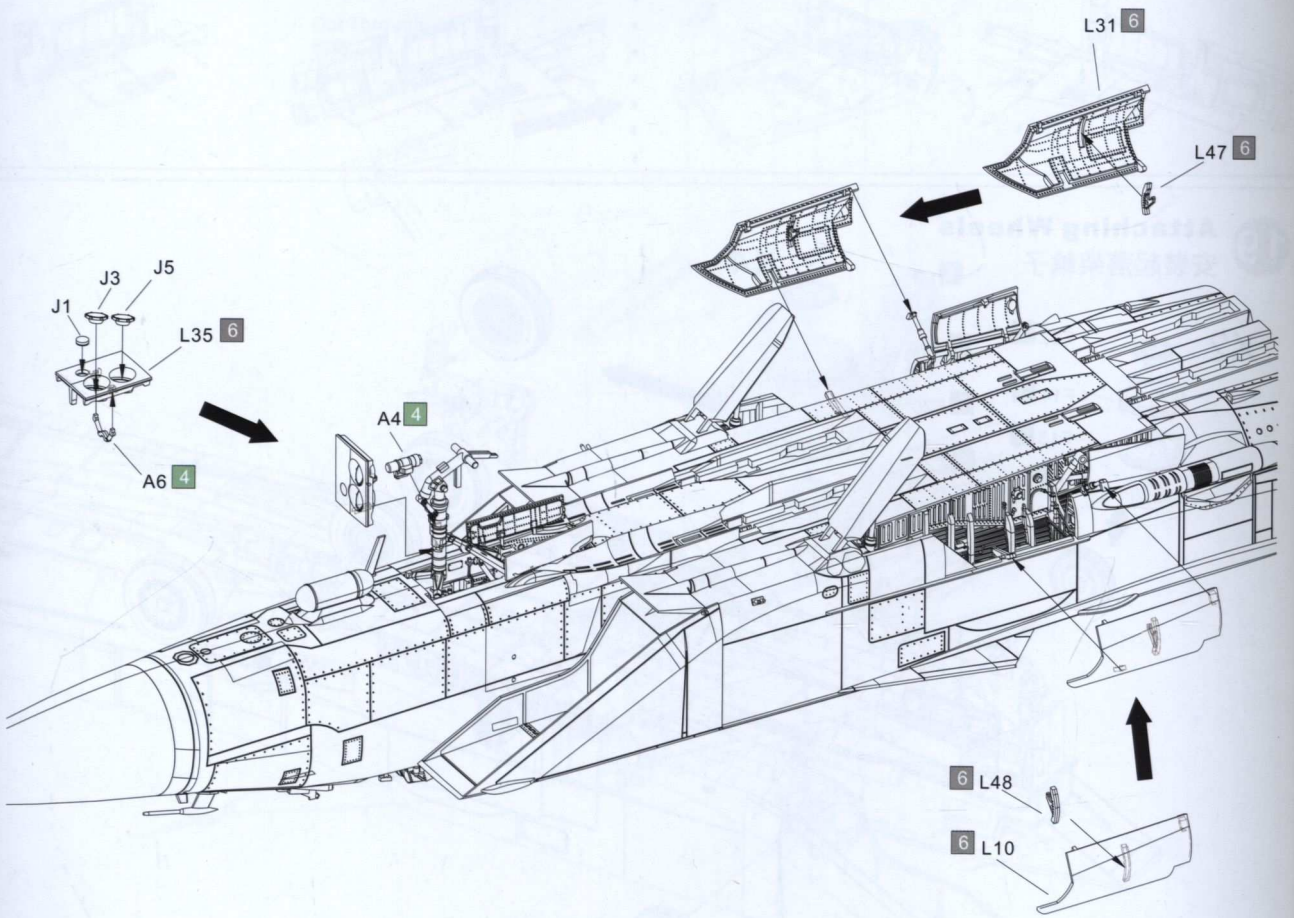
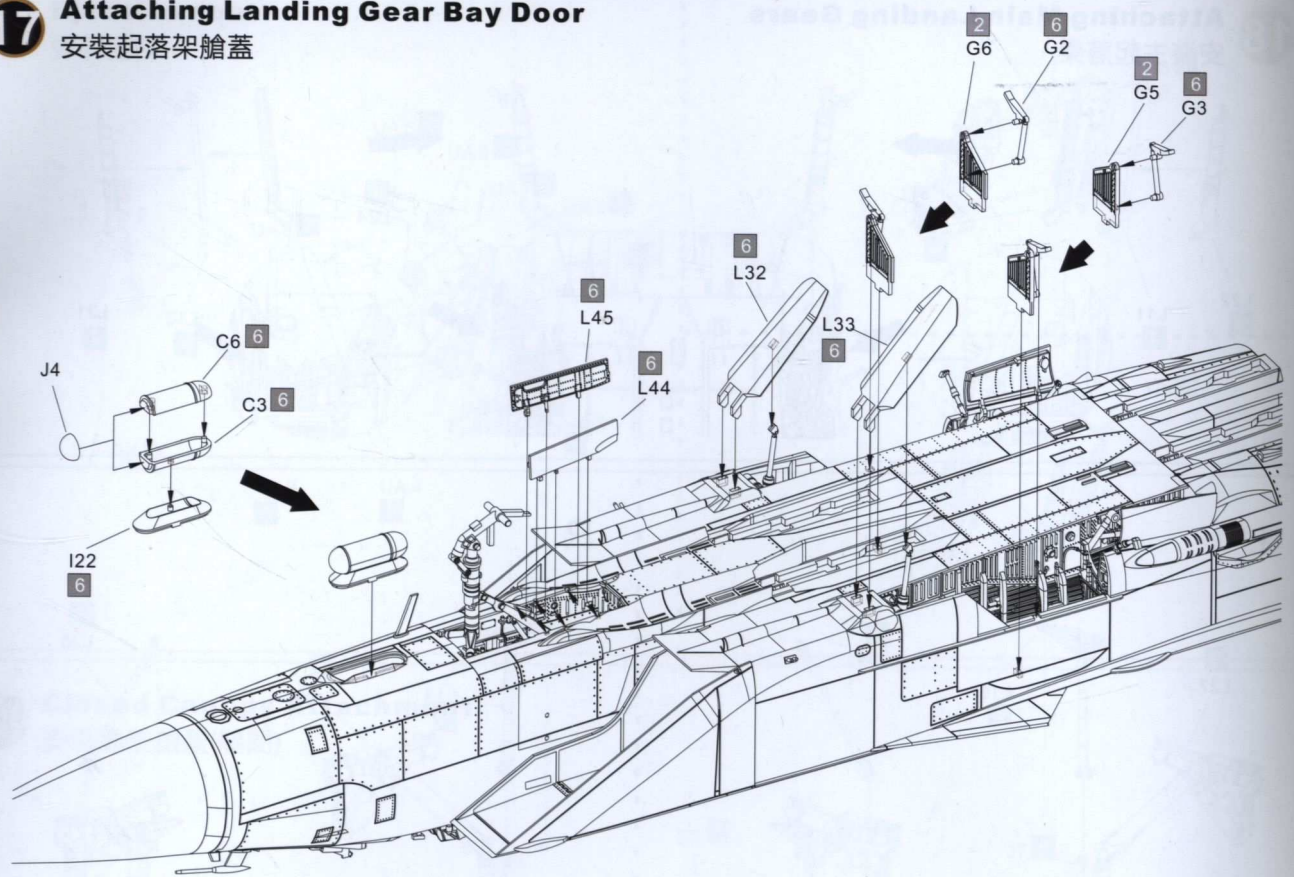


### 16 Attaching Vertical Stabilizer & Nozzle 安裝垂直尾翼及出風口





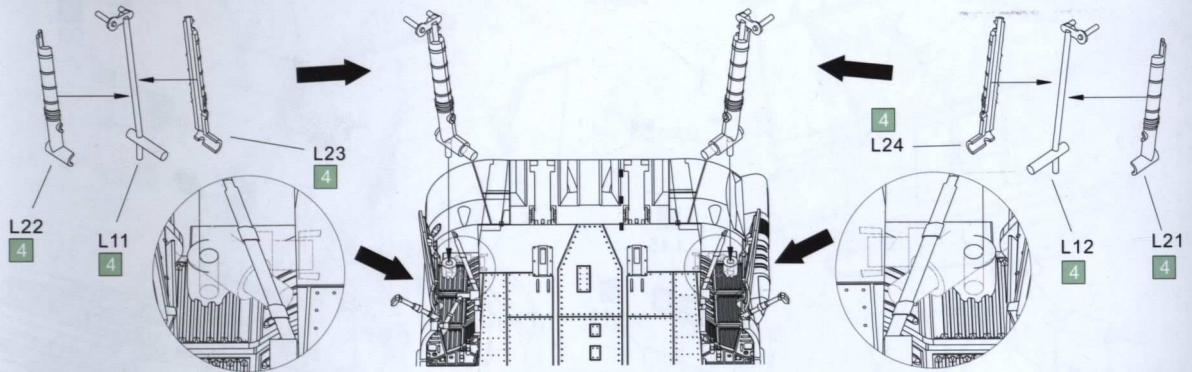
# 17 Attaching Landing Gear Bay Door 安裝起落架艙蓋





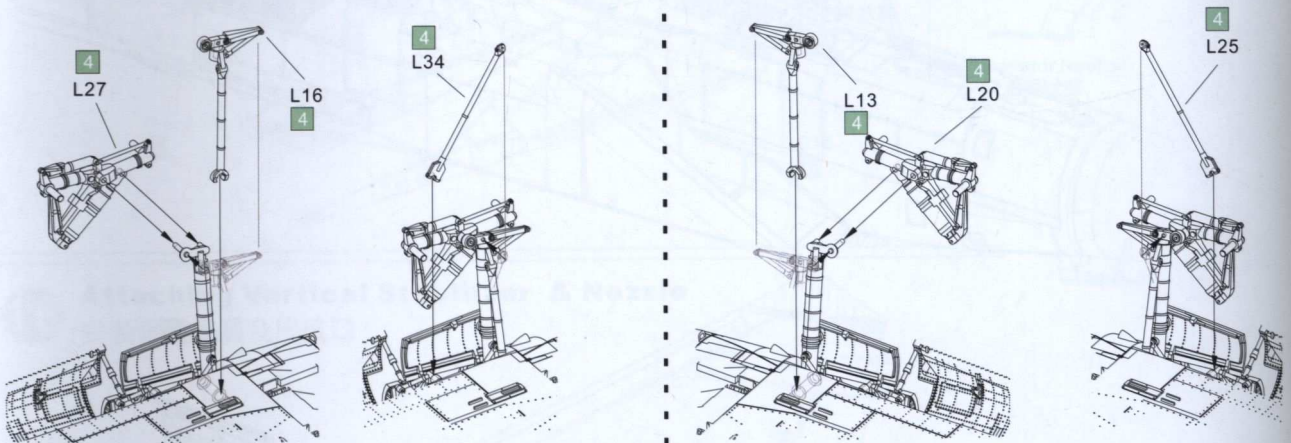
### 18 Attaching Main Landing Gears

安裝主起落架



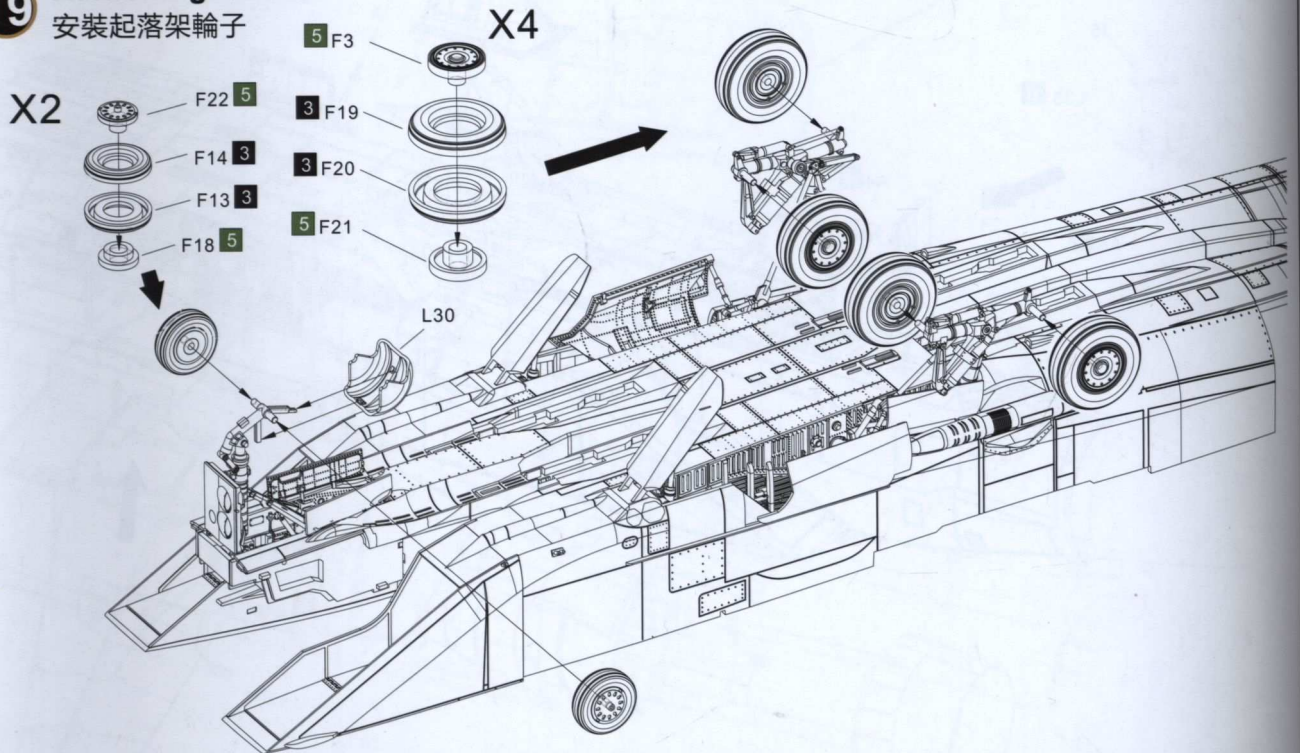
L

R



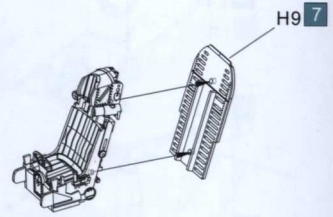
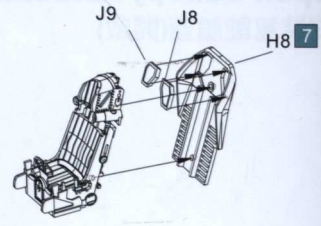
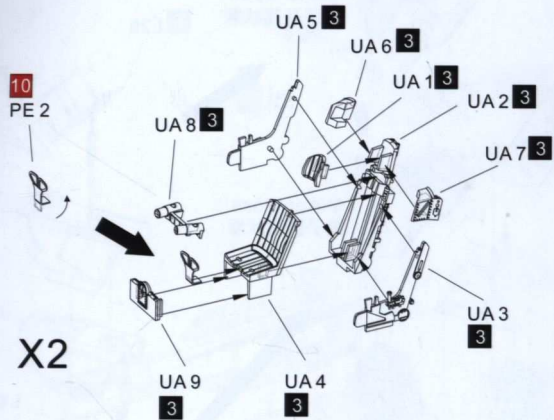
### 19 Attaching Wheels

安裝起落架輪子

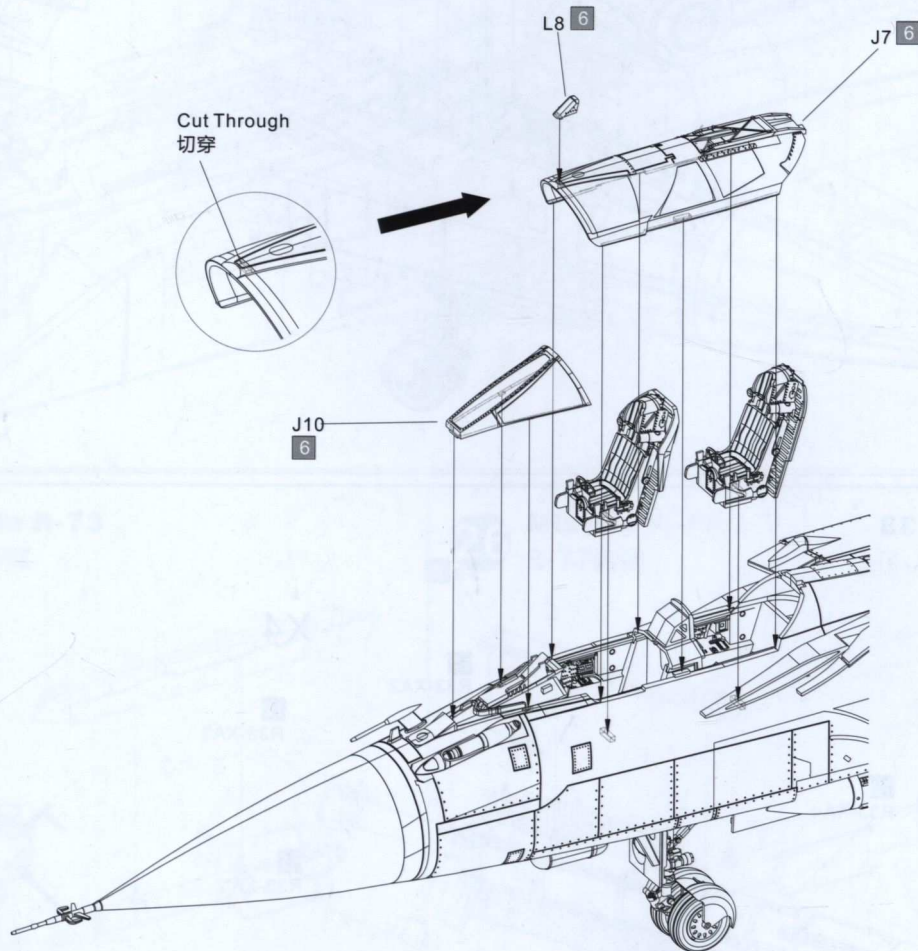




**20 Ejection seat**  
彈射座椅

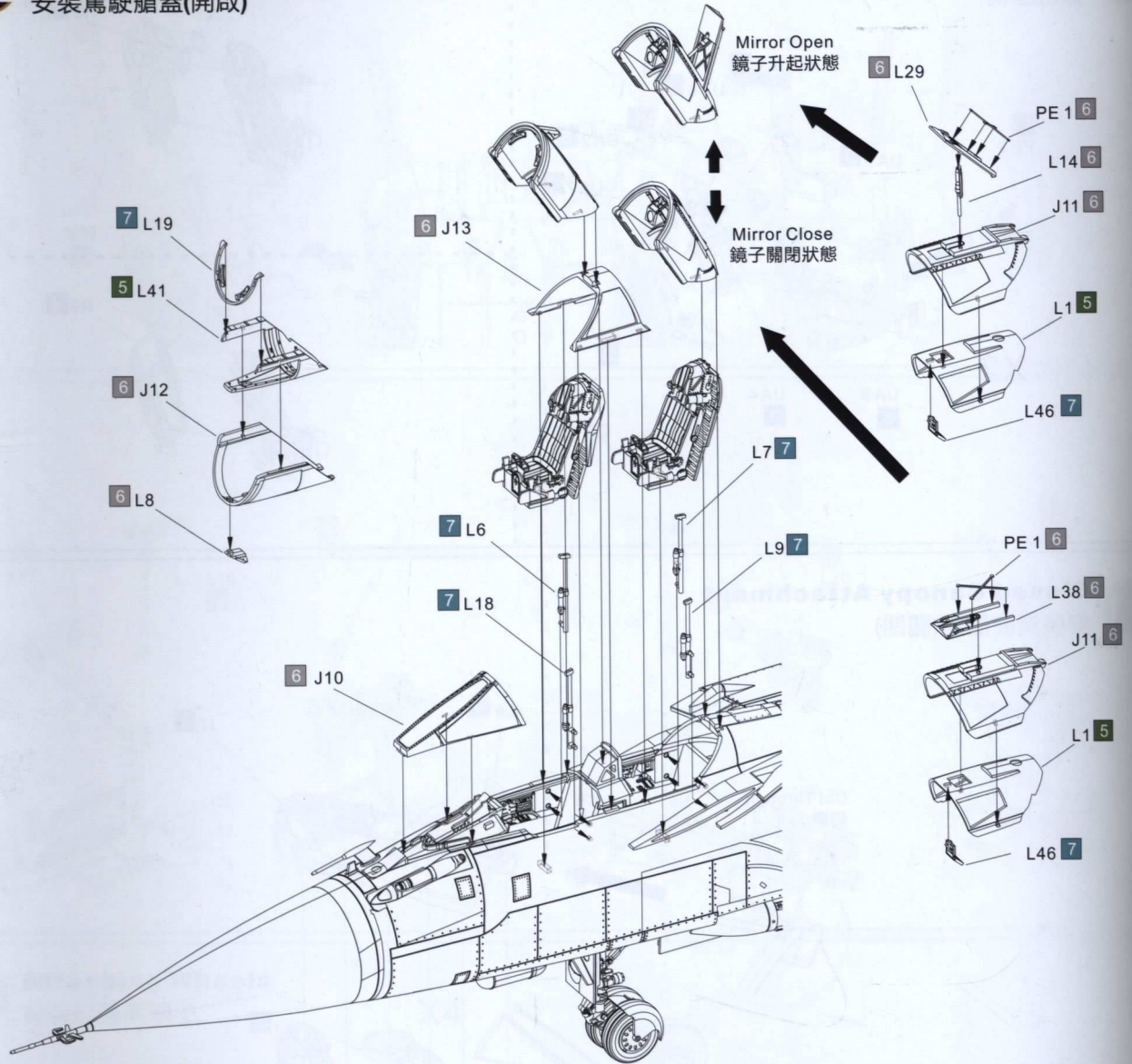


**21 Closed Canopy Attachment**  
安裝駕駛艙蓋(關閉)

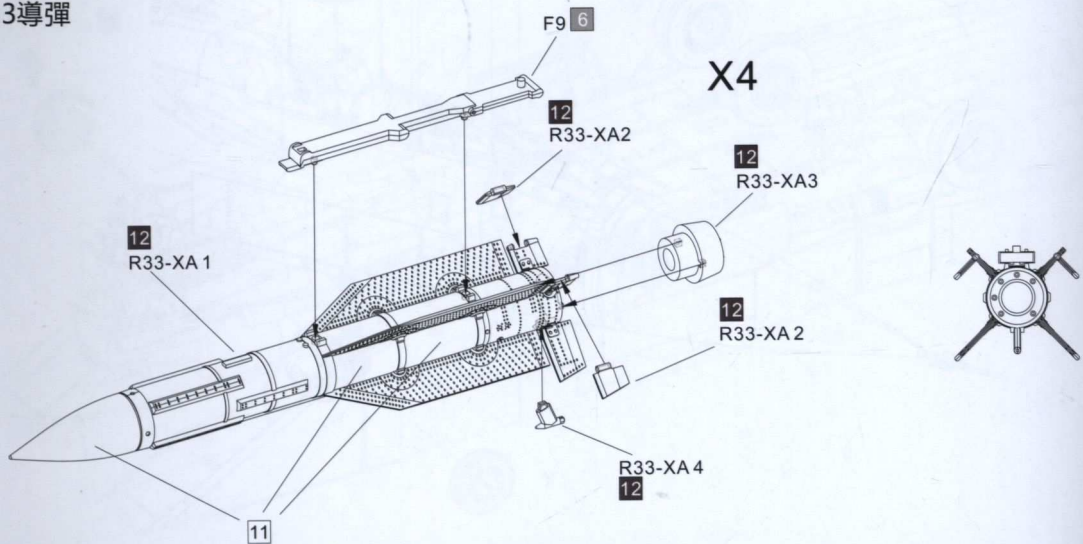




**22** Open Canopy Attachment  
安裝駕駛艙蓋(開啟)

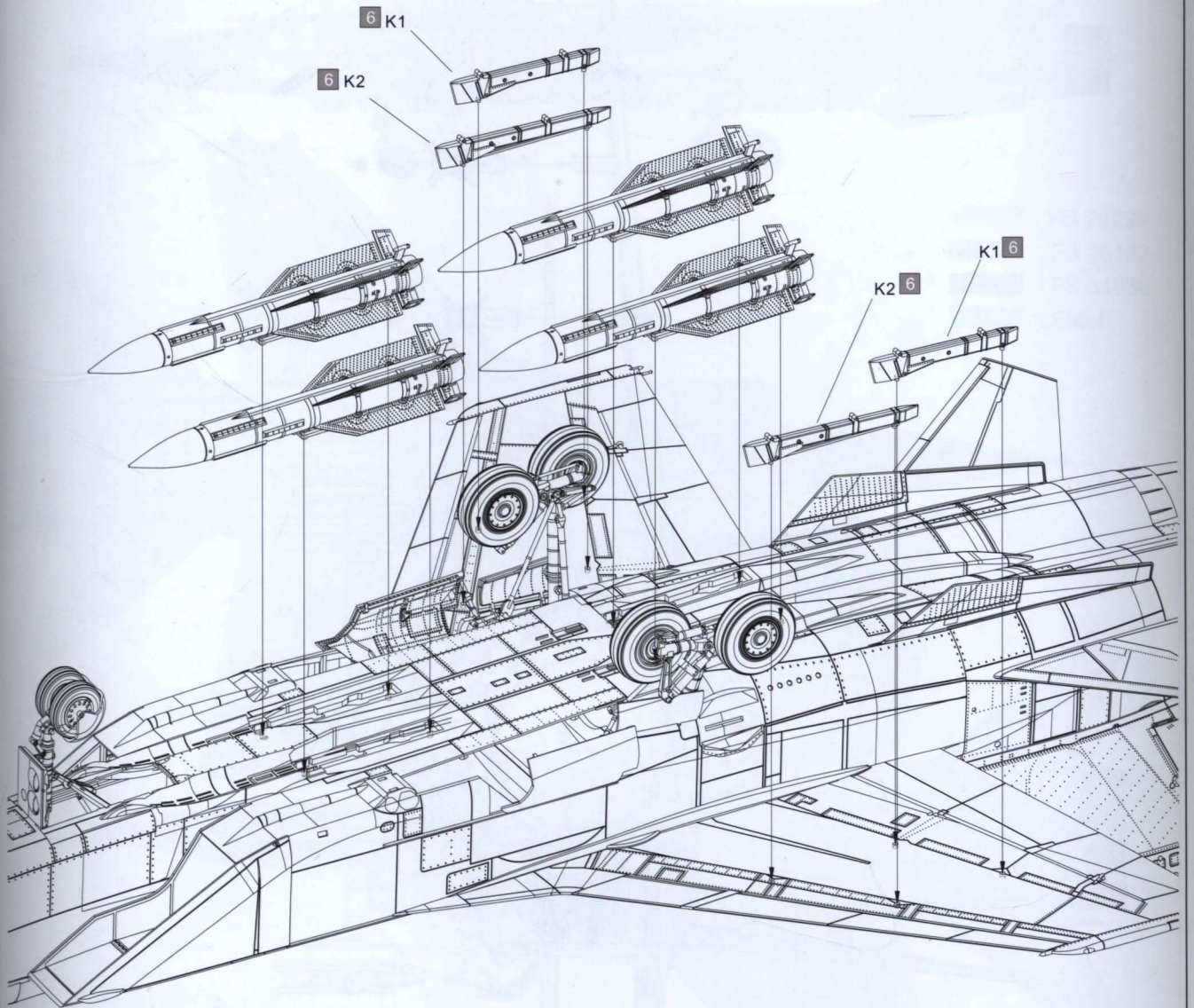


**23** Missile R-33  
R-33導彈

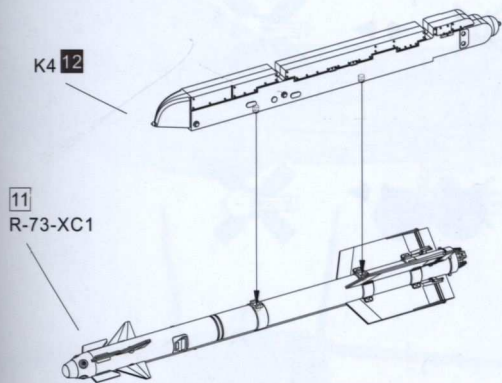




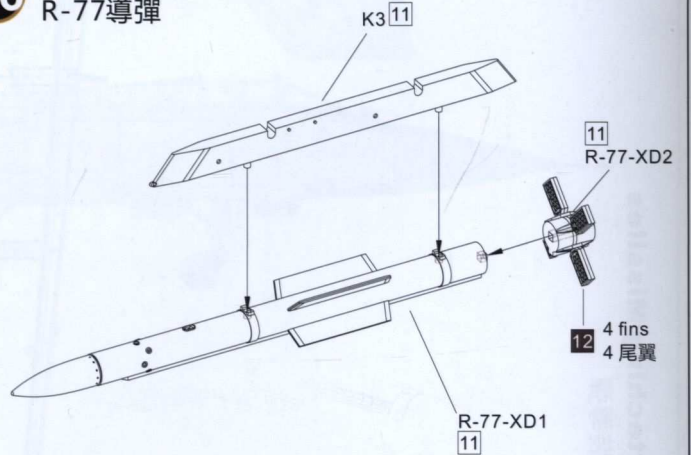
**24 Attaching R-33 & Pylons**  
 安裝 R-33 導彈及武器掛架



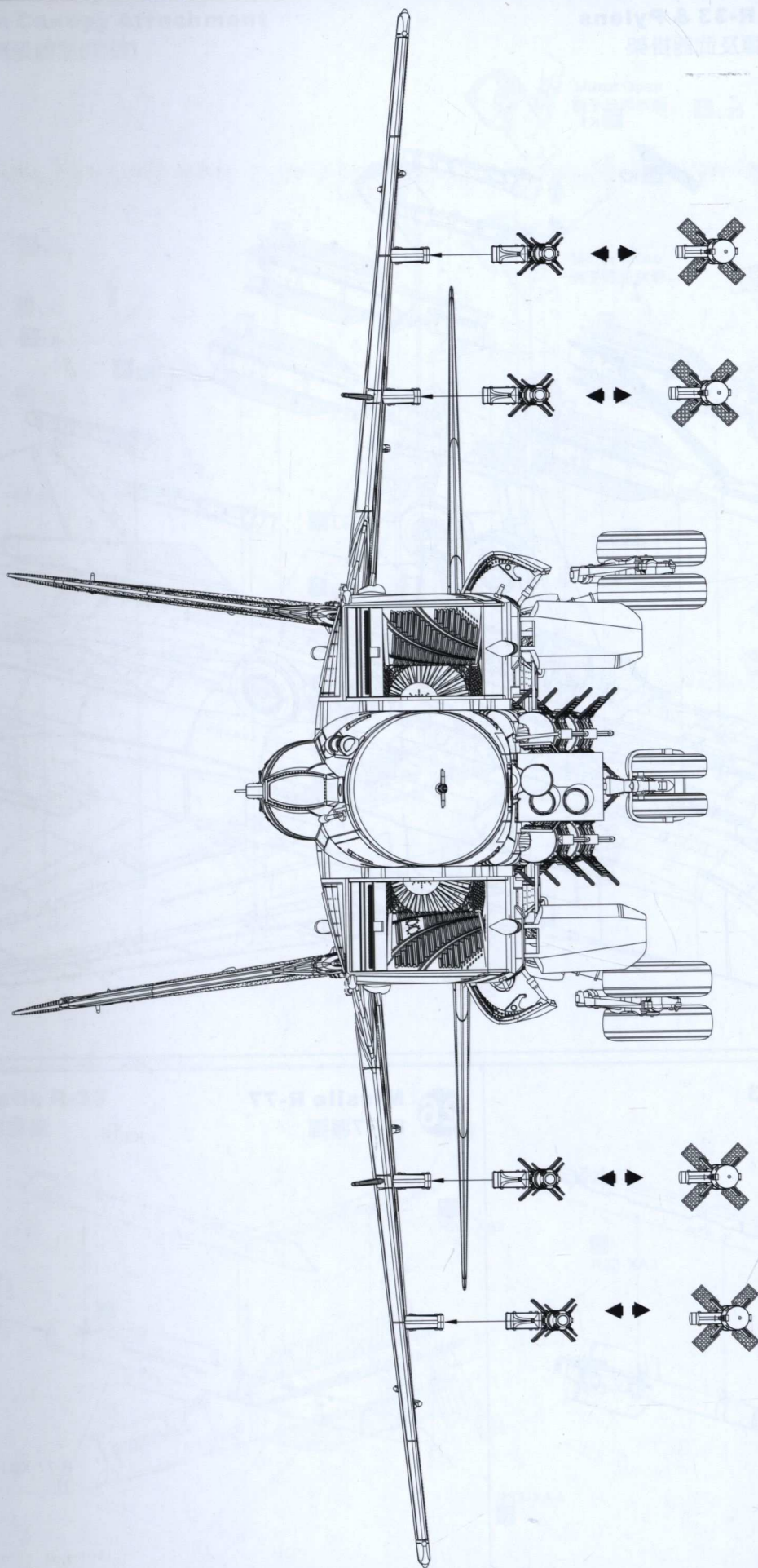
**25 Missile R-73**  
 R-73 導彈



**26 Missile R-77**  
 R-77 導彈

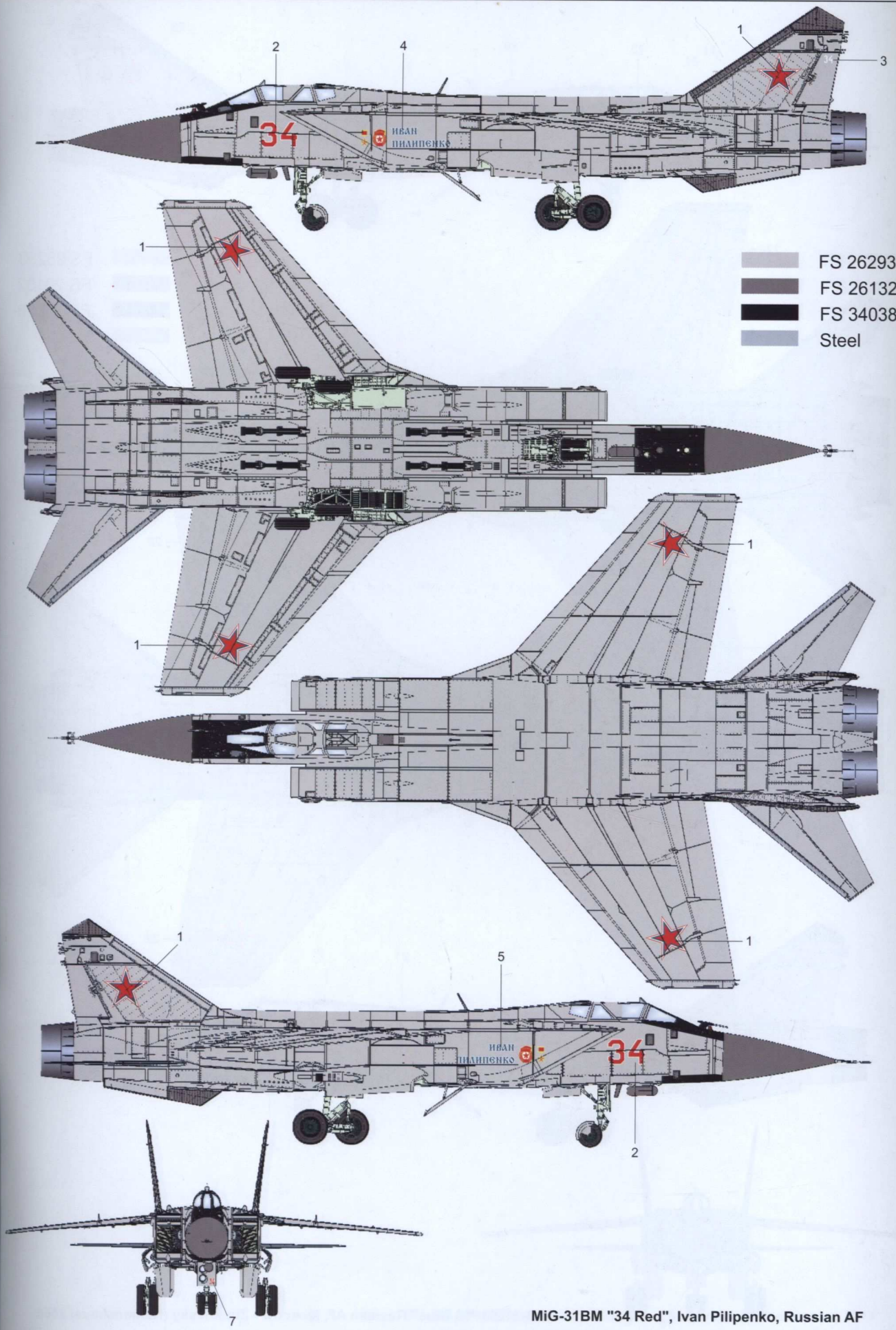






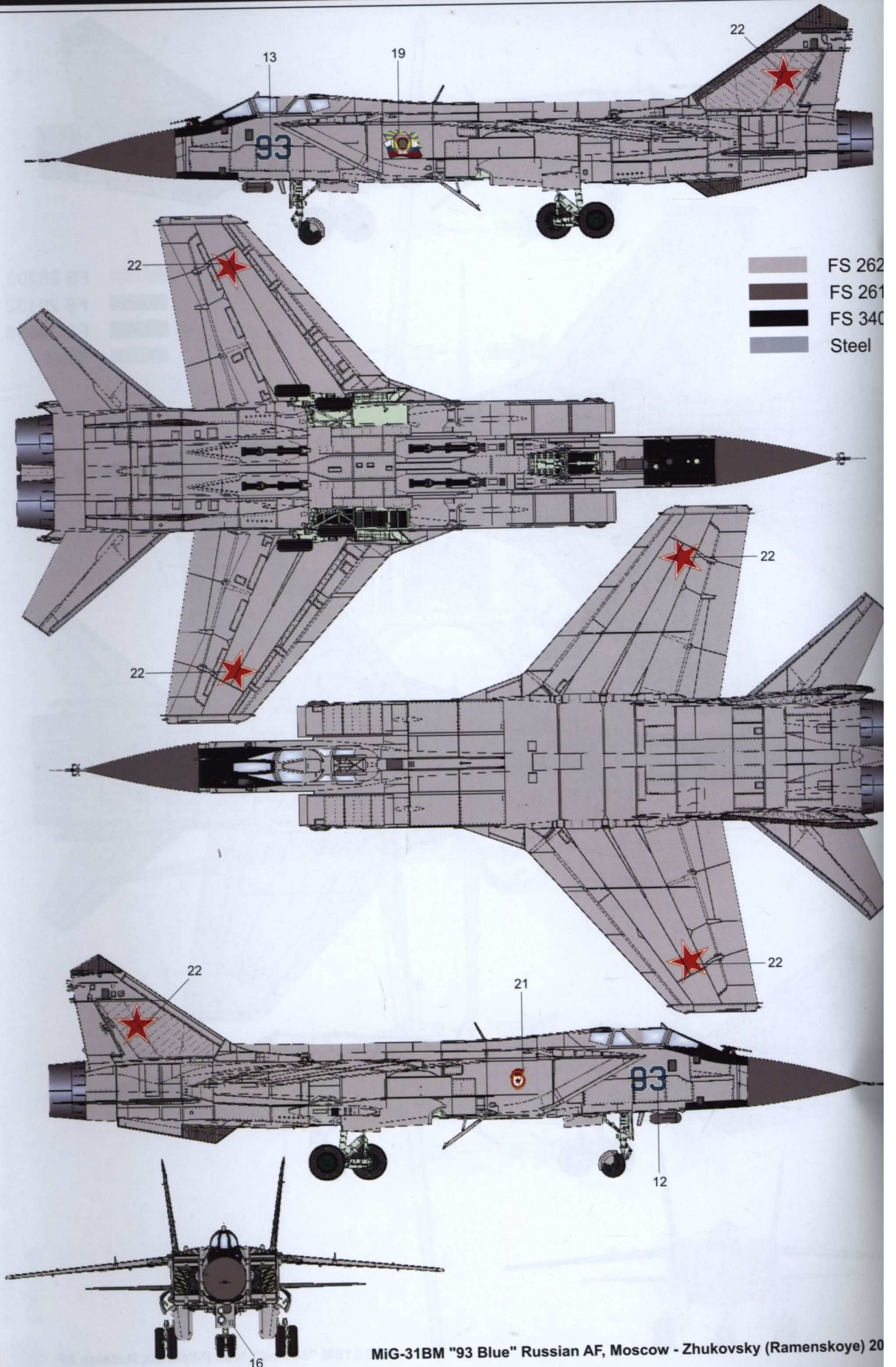
Attaching Missiles  
安装导弹





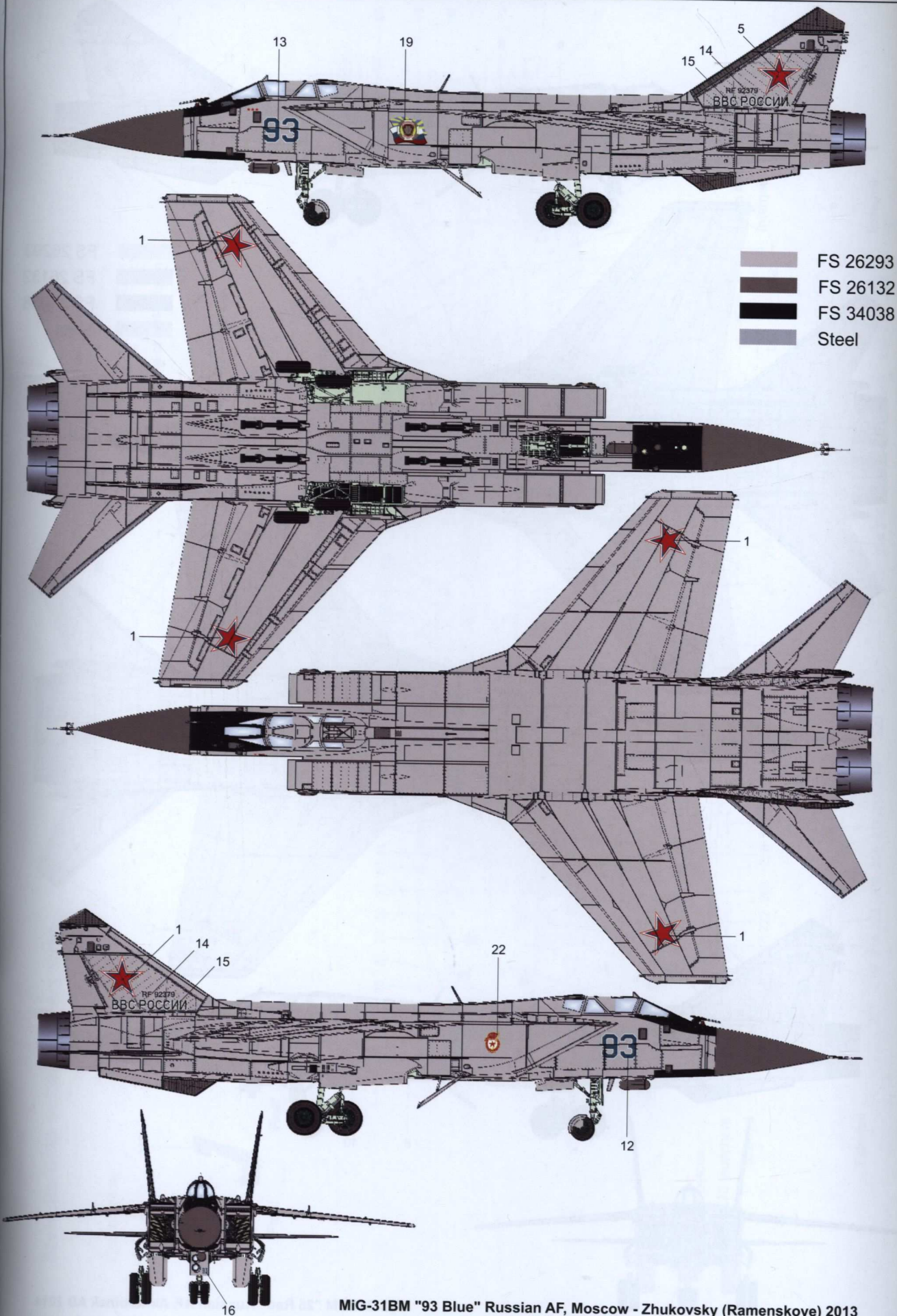
MiG-31BM "34 Red", Ivan Pilipenko, Russian AF





MiG-31BM "93 Blue" Russian AF, Moscow - Zhukovsky (Ramenskoye) 20

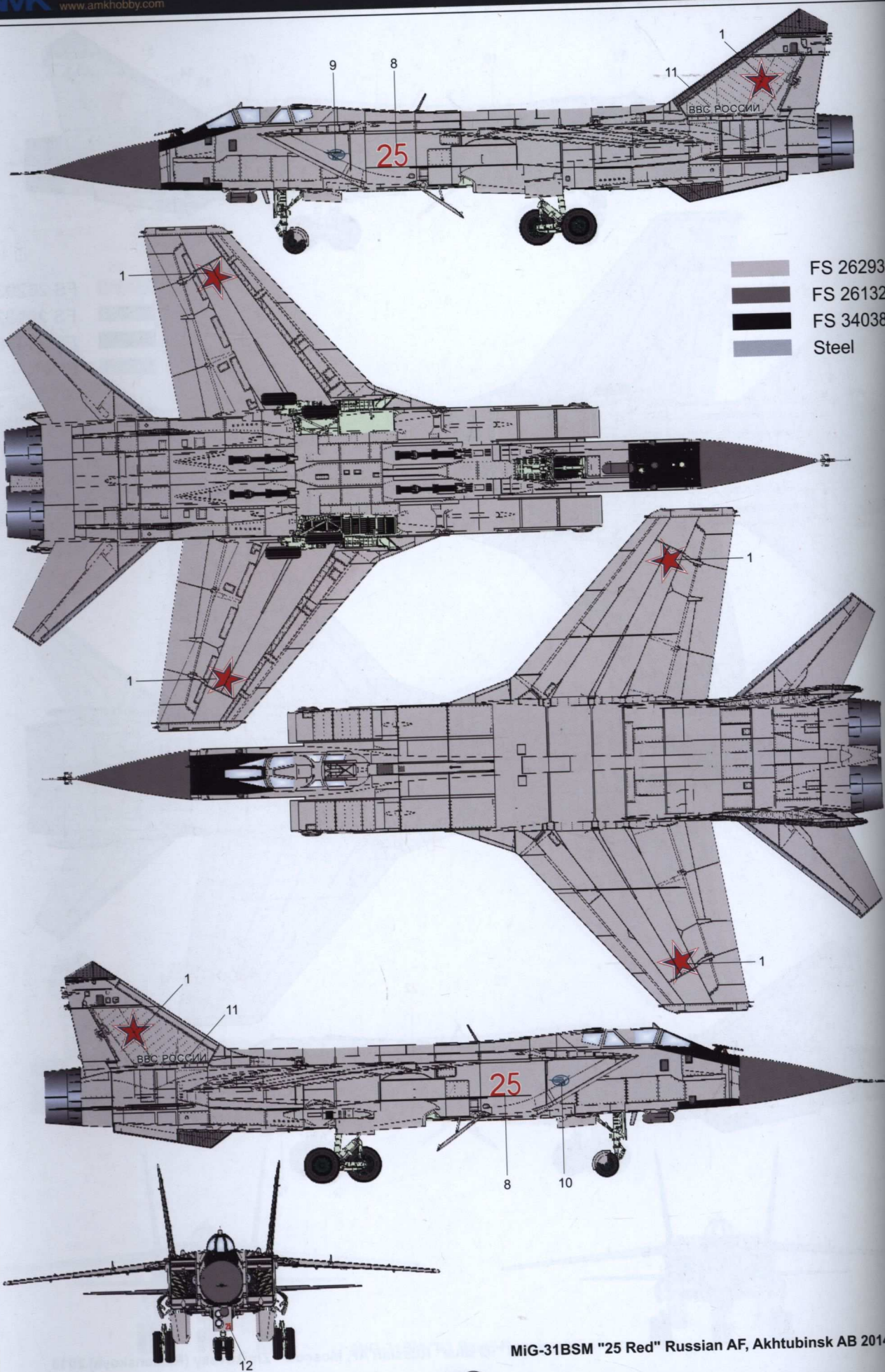




- FS 26293
- FS 26132
- FS 34038
- Steel

MiG-31BM "93 Blue" Russian AF, Moscow - Zhukovsky (Ramenskoye) 2013



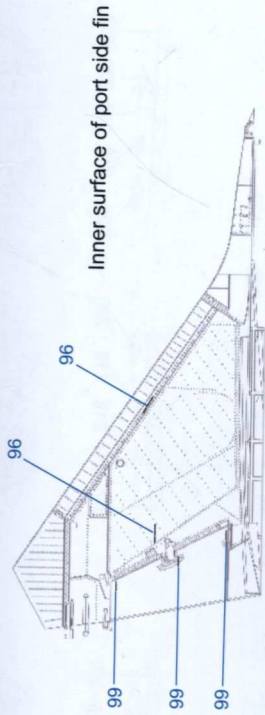
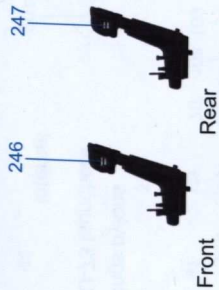


MiG-31BSM "25 Red" Russian AF, Akhtubinsk AB 2014

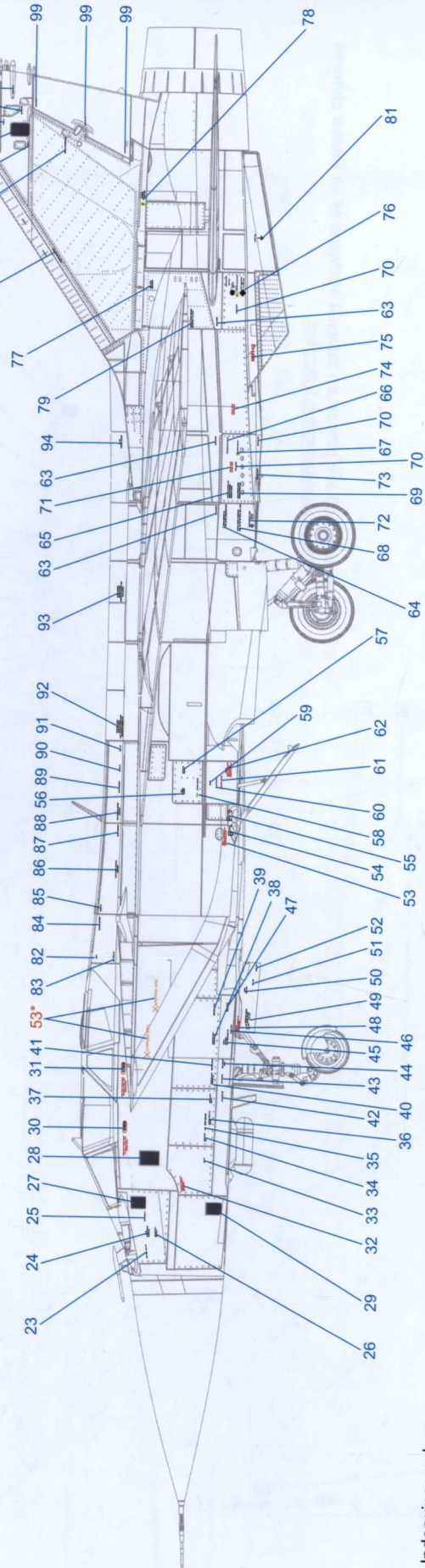


# Stencils data scheme - Port side

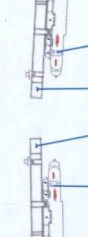
Ejection seats



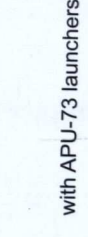
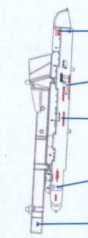
**!!! 53\* - Decals No.53 are placed on internal surfaces of air intake channel**  
**!!! 53\* 注意, 53號水貼紙粘貼的位置為入風口內側。**



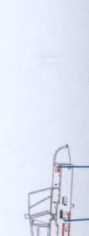
Underwings pylons  
with AKU-170 launchers  
Internal



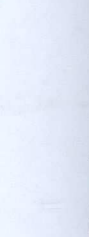
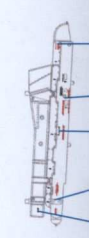
with APU-73 launchers  
Internal



External



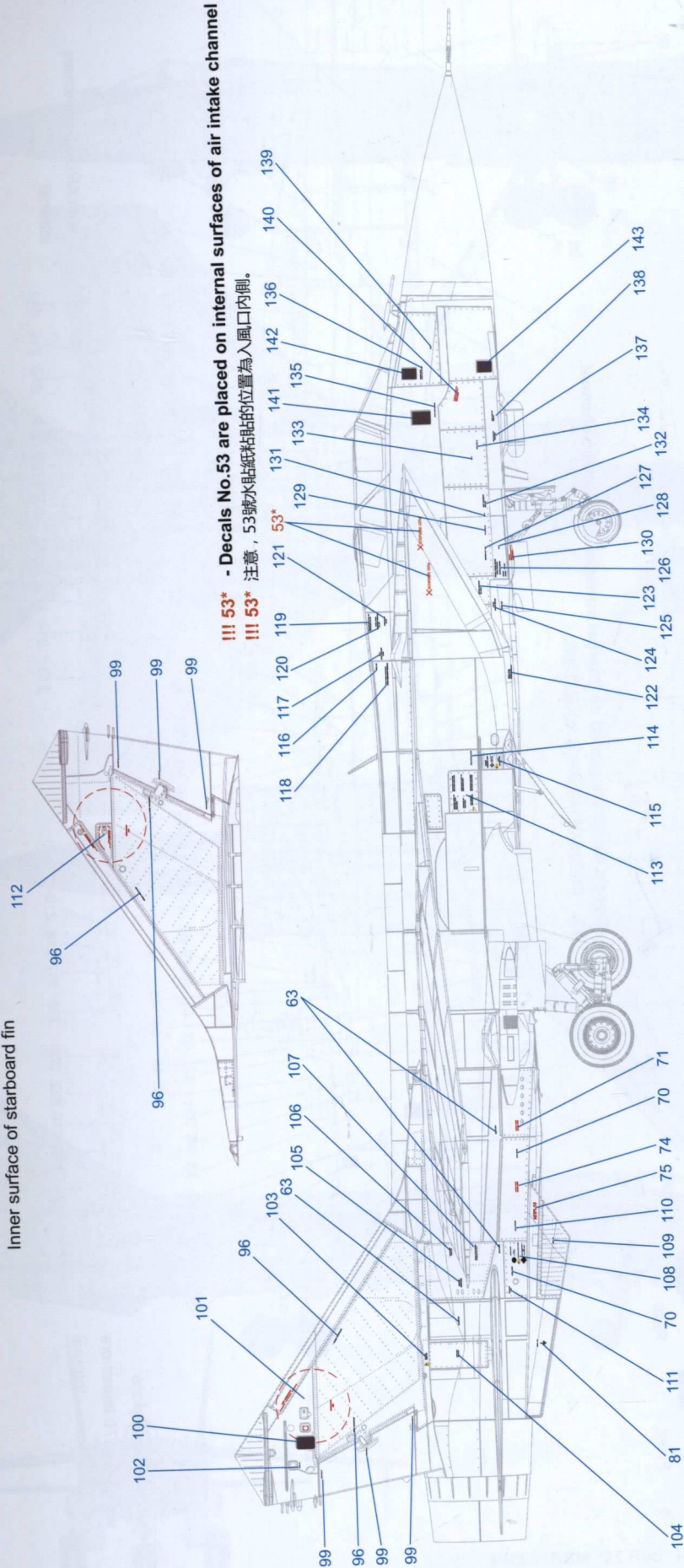
External



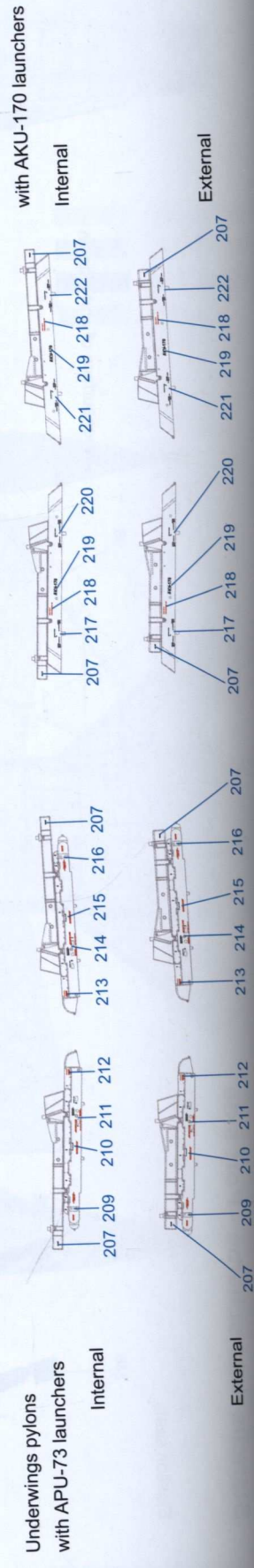


# Stencils data scheme - Starboard

Inner surface of starboard fin

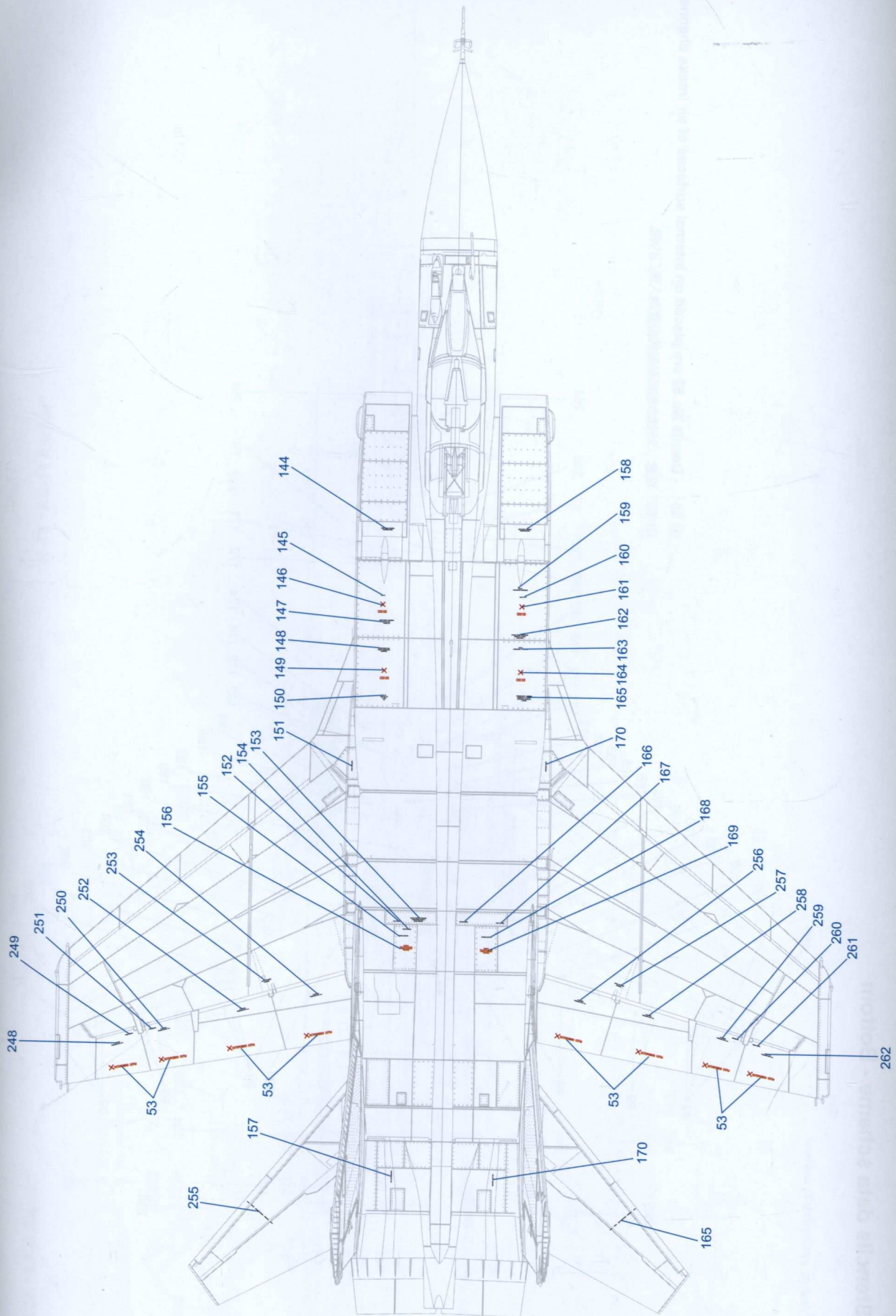


!!! 53\* - Decals No.53 are placed on internal surfaces of air intake channel  
 !!! 53\* 注意, 53號水貼紙貼的位置為入風口內側。



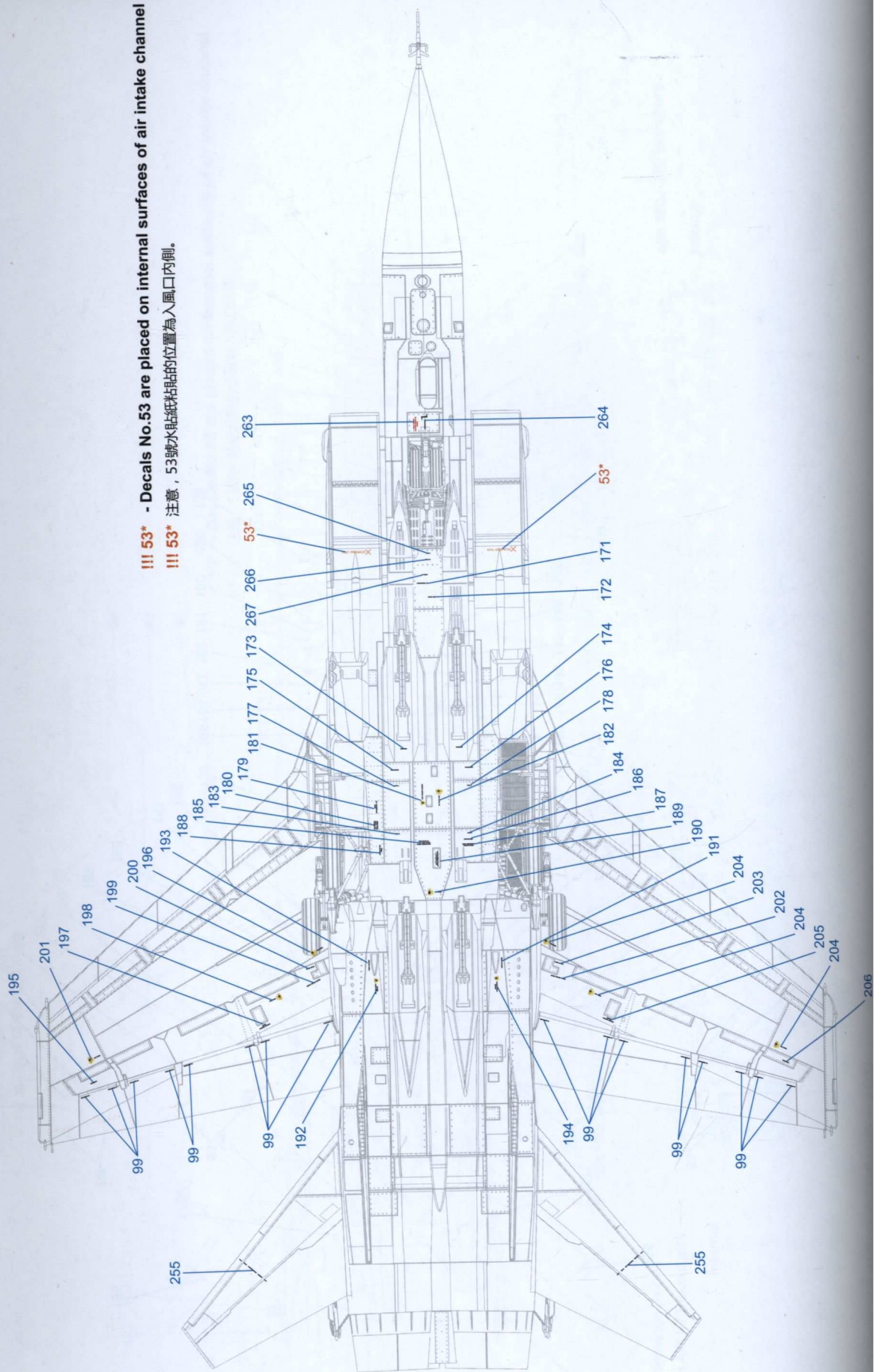


Stencils data scheme - Top





### Stencils data scheme - Bottom

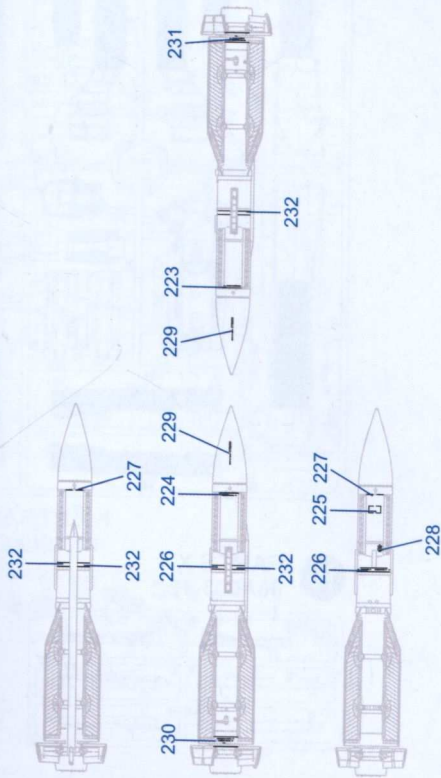


!!! 53\* - Decals No.53 are placed on internal surfaces of air intake channel  
!!! 53\* 注意, 53號水貼紙粘貼的位置為入風口內側。

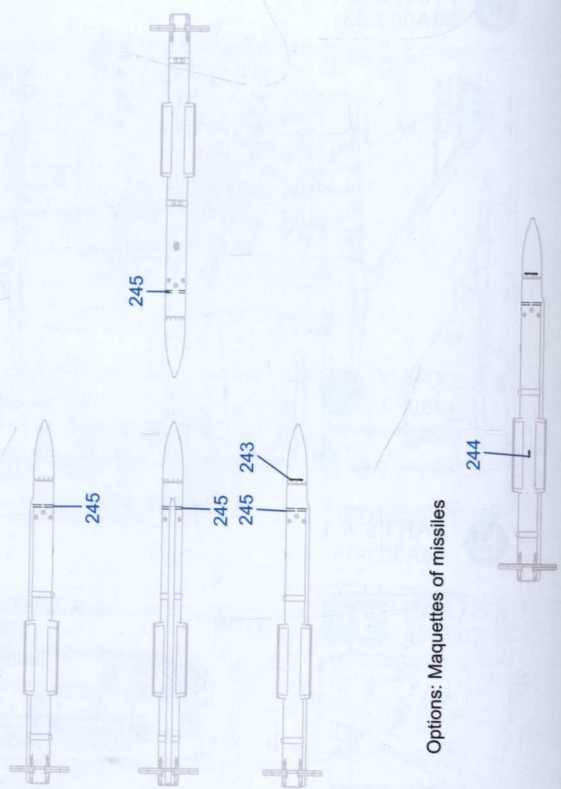


Stencils data scheme - Missiles

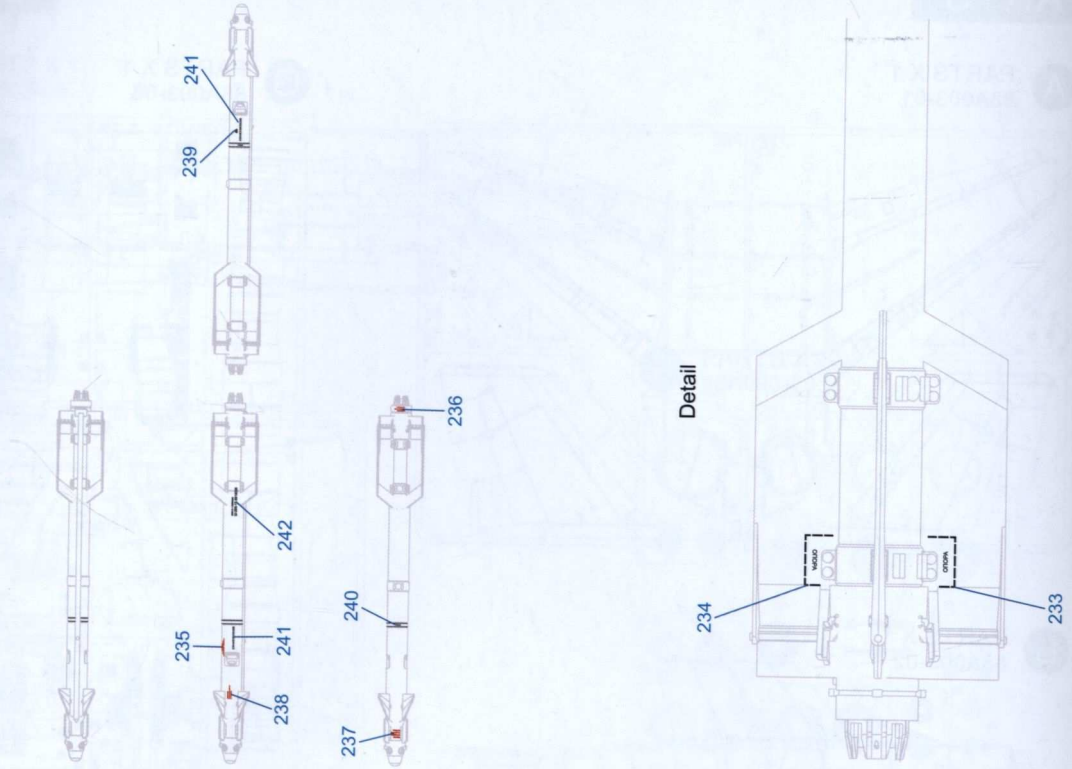
R-33 "AA-9 Amos"



R-77 "AA-12 Adder"



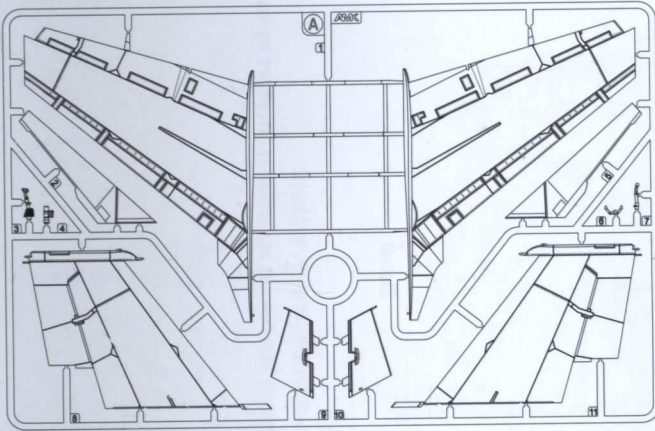
R-73 "AA-11 Archer"



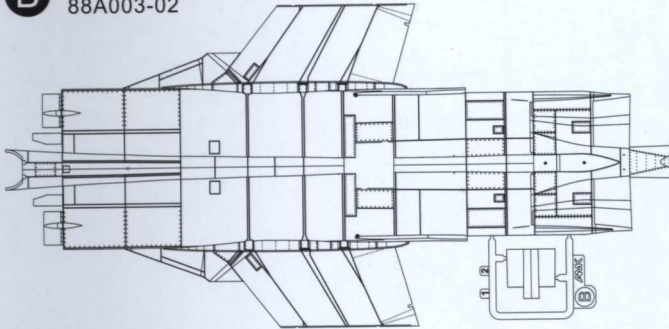


**PARTS**

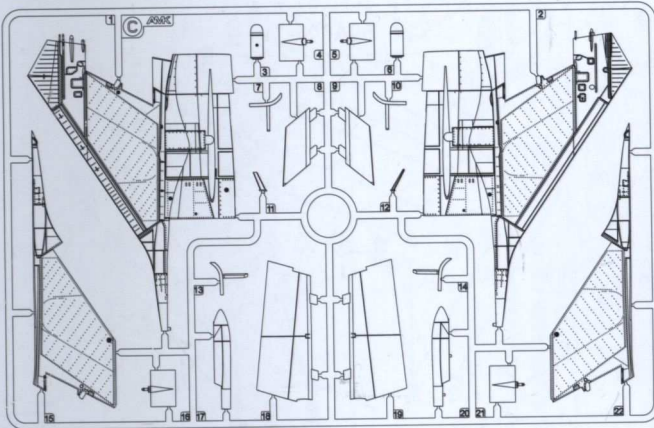
**A** PARTS X 1  
88A003-01



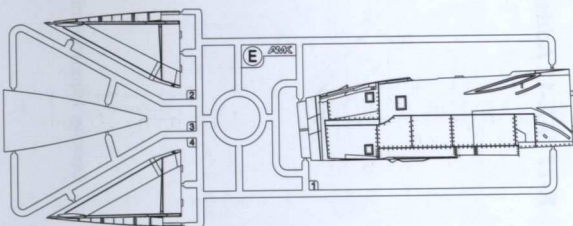
**B** PARTS X 1  
88A003-02



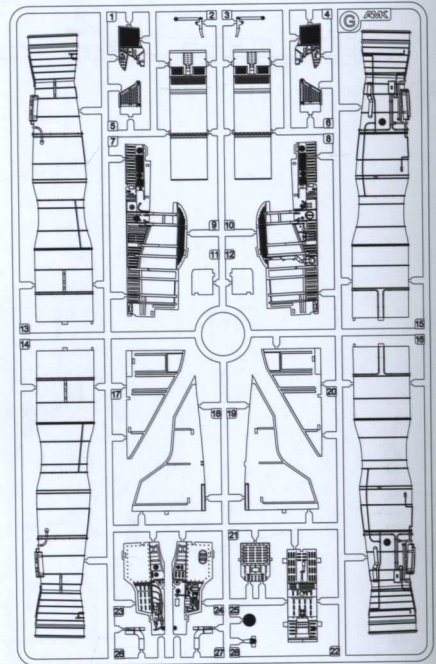
**C** PARTS X 1  
88A003-03



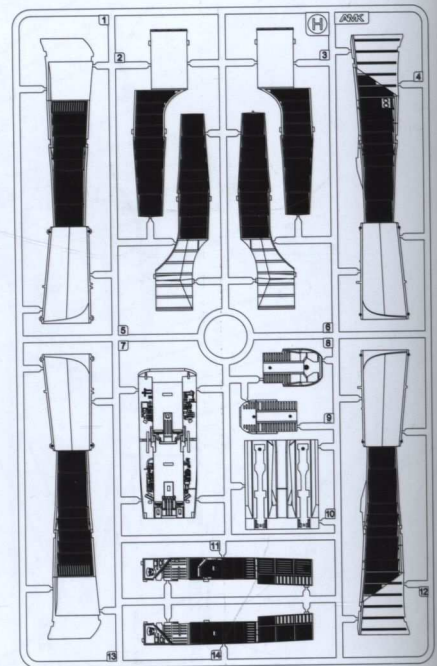
**E** PARTS X 1  
88A003-05



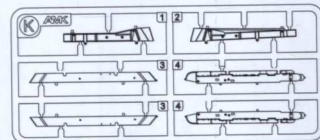
**G** PARTS X 1  
88A003-08



**H** PARTS X 1  
88A003-09



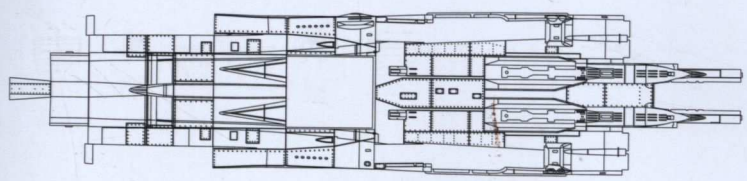
**K** PARTS X 1  
88A003-12



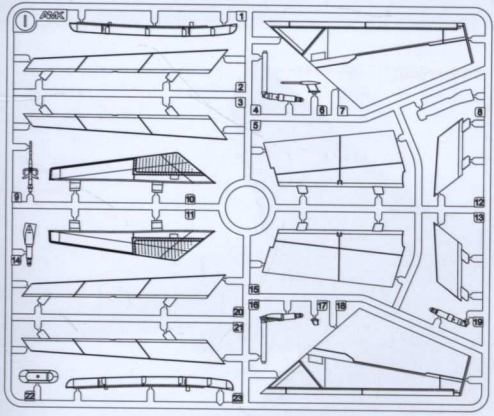


**PARTS**

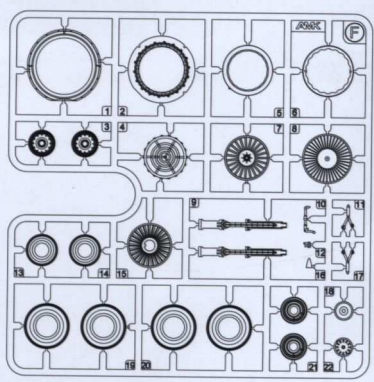
**D** PARTS X 1  
88A003-04



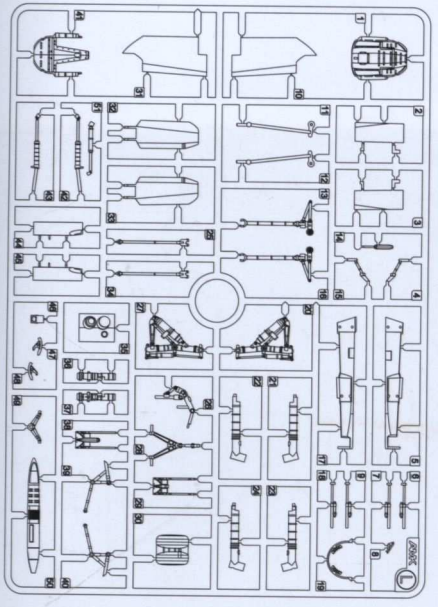
**I** PARTS X 1  
88A003-10



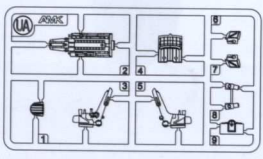
**F** PARTS X 2  
88A003-06



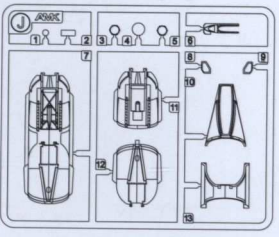
**L** PARTS X 1  
88A003-13



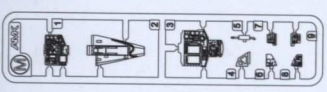
**UA** PARTS X 2  
88A003-07



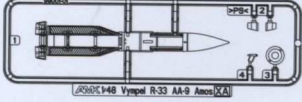
**J** PARTS X 1  
88A003-11



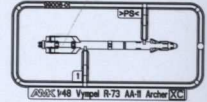
**M** PARTS X 1  
88A003-14



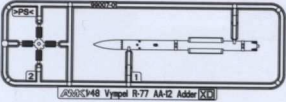
**XA** PARTS X 4  
99001-01



**XC** PARTS X 4  
99006-01



**XD** PARTS X 4  
99007-01



**PE** PARTS X 1  
88A003-15






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**1/48 SCALE**

