

1/48TH SCALE CONSTRUCTION KIT

MIG-21PF FISHBED D

ACADEMY

HOBBY MODEL KITS



미그 21PF 피시베드 D #2166/FA148

The Mikoyan-Gurevich MiG-21 was one of the most widely used supersonic fighter aircraft in the world. They were and still are the backbone of fighter airforces of many nations around the world, and the MiG-21 will probably remain in wide spread service well into the next century.

The Soviet Union built a number of prototypes and experimental aircraft during the early 1950s to obtain information of the aerodynamics of a Mach 2 supersonic fighter. These prototypes were built with both swept and delta wings, both having powered slab tailplanes, and the delta was chosen for production. The true MiG-21 prototype, called Ye-6, made its first flight during early 1958, and the initial production run of thirty aircraft was completed during late 1958. These aircraft were designated the MiG-21F and were given the NATO code name 'Fishbed-C'.

Since then more than 10,000 of remodeled types of this fighter have been manufactured and used not only by Soviet but by many countries.

The MiG-21PF version was developed from its predecessor the F version. This new model had all-weather interception capacity newly added. The air-intake and large nose cone of F version have been enlarged to install on the plane. The nose cone has RIL 'Spin-Scan' radar system in it. The armament consists of a GP-9 23mm cannon, AAMs, rockets and upgraded electronic equipment, enabling an effective operational service in all-weather conditions.

구소련의 미코얀-구레비치 설계국이 디자인한 미그21은 초음속 전투기로서는 항공 역사상 세계에서 가장 많은 수량이 생산되어 사용된 기체이다. 시리즈의 첫 모델이 등장한지 어언 40여년의 긴 시간이 지나갔음에도 불구하고 미그21은 여전히 세계 곳곳의 많은 나라에서 군사 전력상 대단히 중요한 위치를 차지하고 있으며, 아마 그 중 상당수는 21세기가 되더라도 끈질기게 살아남아 계속 활동하게 될 것이 거의 확실하다. 소련은 1950년대초 마하2급 전투기의 개발을 위한 정보를 얻기 위해 일련의 실험기 시리즈를 제작하였는데, 미그21의 개발 토대는 여기에서부터 비롯되었다.

개발과정도중 후퇴형 주익과 델타형(삼각모양)주익의 두가지 형식을 놓고서 각기 장.단점을 비교하던 설계진은, 결국 델타형 주익과 전가동식 수평미익을 조합하는 새로운 방식을 채택함으로써 당초 목표했던 요구성능을 달성하는데 성공하였고, 이는 곧바로 실용모델의 개발로 이어졌다. 1958년초, 실용모델의 원형기인 Ye-6이 첫 비행에 성공을 거두자 그해 말까지 30대의 실전기들이 일선에 배치되었는데, 미그21F로 불린 이 양산모델은 나토(NATO)에 의해 '피시베드C' 라는 암호명으로 분류되었다. 이후 많은 성능 개량을 거듭한 미그21시리즈는 본국인 소련이외에도 구 공산권 국가의 대부분과 많은 제3세계 국가의 주력기로 채택되었는데, 인도-파키스탄분쟁, 베트남전쟁, 중동전쟁 등 전세계의 크고 작은 전쟁에는 어김없이 그 모습을 드러낼 정도로 막대한 수량이 생산되었으며, 그 총계는 거의 1만대 이상일 것으로 추정되고 있다.

미그21PF는 첫 모델인 F형을 근본적으로 철저히 재설계하여 전천후 요격능력을 부여한 모델로 이후 시리즈의 진정한 기본이 된 형식이다. 외형상으로는 공기흡입구와 노즈콘 등이 대형화 되었으며, 노즈콘 내부엔 나토암호명으로 '스핀 스캔(Spin-Scan)' 이라 불리는 RIL레이더를 내장하고 있다. 거기에 GP-9 23mm 기관포, AA-2 '아틀' 공대공 미사일, 각종 지상공격용 로켓탄 등의 무장과 개량된 전자장비가 더해지면서 미그21PF는 보다 효과적인 전천후 운용 능력을 지닌 기체로 재탄생되었다.

<Read this before you begin>

- Study the instructions before assembling.
- Check the fit of each piece before cementing into place.
- Do not use too much cement to join parts.
- Never use cement or paint near open flame.
- Open a window or make area well ventilated when cement or paint is in use.
- Tear up and throw away the empty plastic bags to avoid danger of suffocation for little children.

■ 조립하기 전에

- 부품을 조립하기 전에 설명서를 잘 읽어본 후 조립한다.
- 부품을 자를 때에는 칼이나 니퍼로 깨끗이 잘라준다.
- 접착제를 사용할 곳과 사용하지 않는 곳에 주의하고 너무 많이 바르지 않도록 한다.
- 접착하기 전에 부품을 맞추어 확인한 후 조립한다.
- 에나멜 페인트나 접착제를 사용할 때는 창문을 열어 환기를 시키고 화기를 멀리한다.
- 사용 후 남은 부품은 어린 아이들의 손에 닿지 않도록 잘 처리한다.



붙착한다
Default Parts
Coller
Kleben
Vleken
Papier
verdueren
Clear
kleven



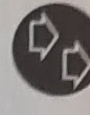
붙착하지 않는다
DO NOT cement
No glue collar
Klebt kleben
No papier
Niet verdueren
Noo clear
Niet kleven



잘라낸다
Cut away
Couper
schneiden
Cortar
Tagliere
Cortar
Snyden



선택한다
Optional parts
Choix
Auswahloptionalität
Election
Scelta
Opção
Kies



3

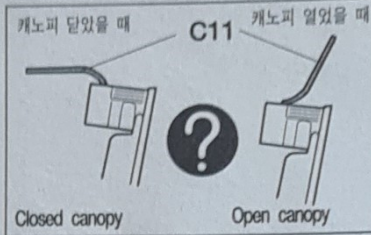
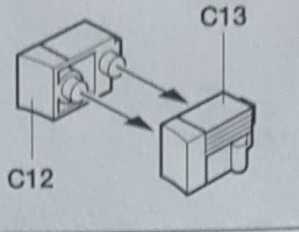
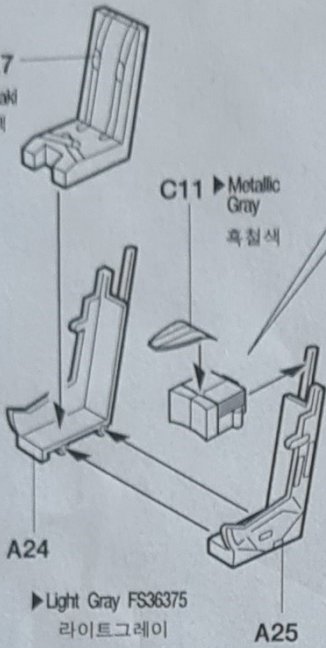
수단을 포함한다
Repeat operation
Répéter l'opération
Herhalen de operatie
Repetir la operación
Repetire
Opnieuw
Herhalen

1



▶Light Gray FS36375
라이트 그레이

A7
▶Khaki
키키색



※Select either.(Refer to step ⑤)
과정⑤를 참조하여 선택한다.

▶Instrument details
: Black with Silver
계기류: 유광검정색
및 은색

▶Flat Black
무광검정색
A14

▶Metallic Gray
흑철색
E7

▶Cockpit Interior & Instrument Panel
: Blue Gray
조종석내부 및 계기판: 블루그레이

2



▶Blue Gray
블루그레이

C14

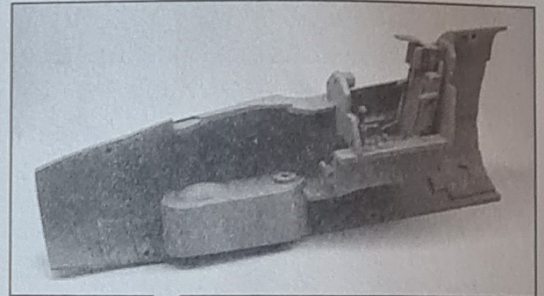
B8

C15

▶Silver
은색
B6

▶Dark Green FS 34092
다크그린

※Add weight.(15g)
무게추를 넣어준다.



3

▶ Metallic Gray
흑철색 B22

A6 ▶ Metallic Gray
흑철색

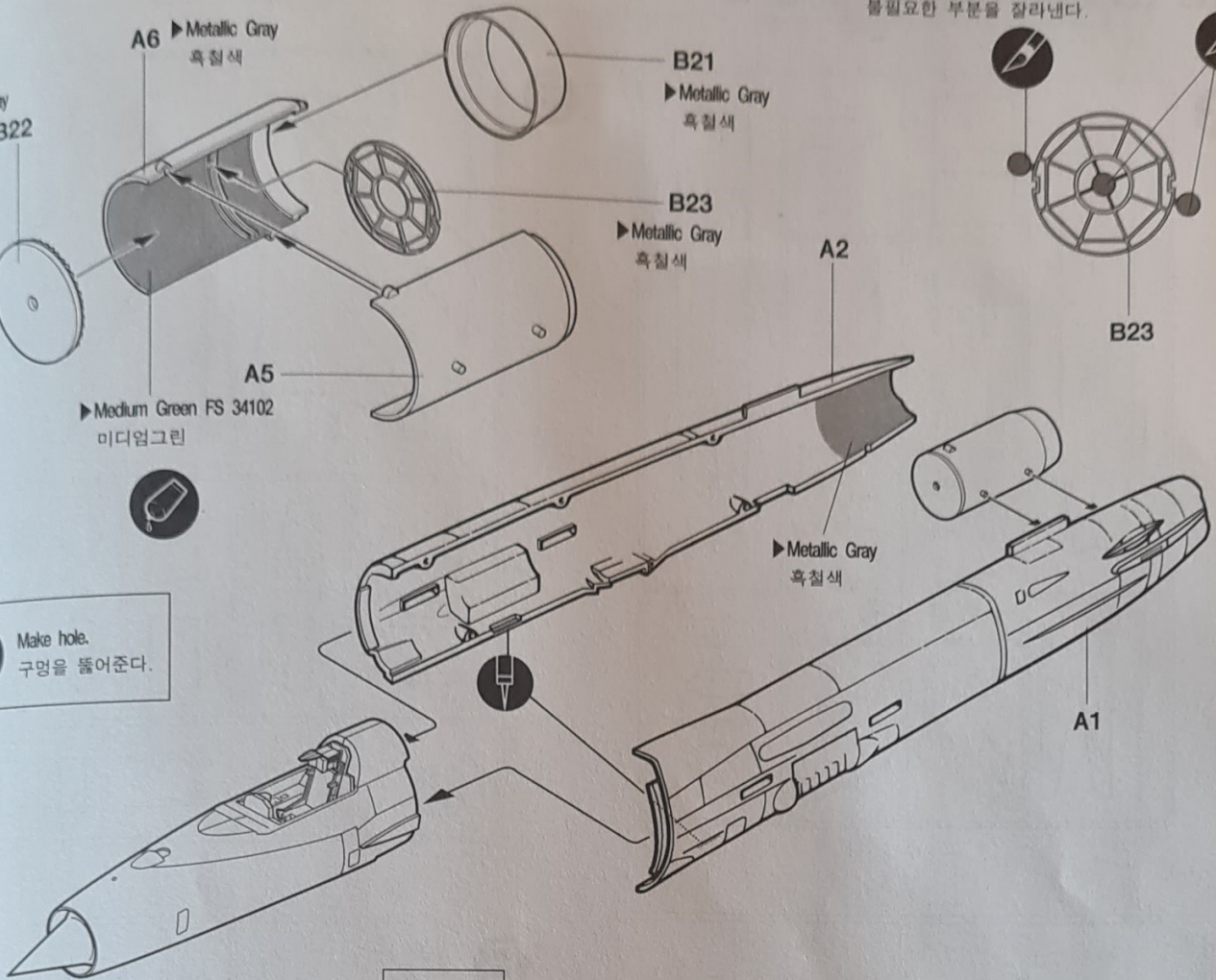
B21 ▶ Metallic Gray
흑철색

B23 ▶ Metallic Gray
흑철색

▶ Medium Green FS 34102
미디엄그린

※ Remove the useless portions.
불필요한 부분을 잘라낸다.

Make hole.
구멍을 뚫어준다.



4

B2

B12

B9

■ EARLY VERSION 초기형

C1

C2

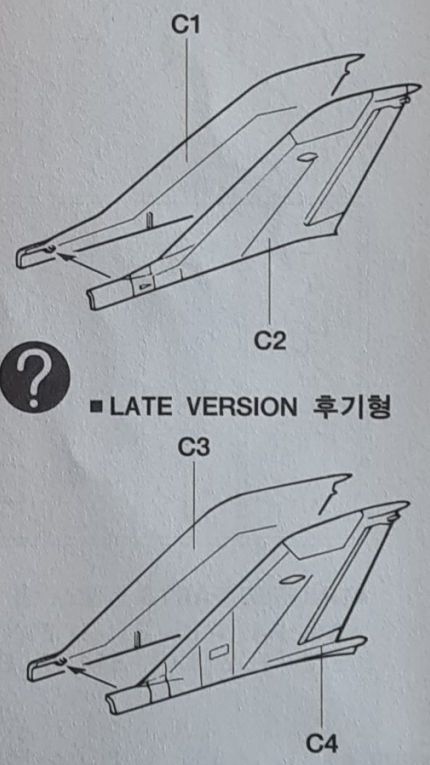
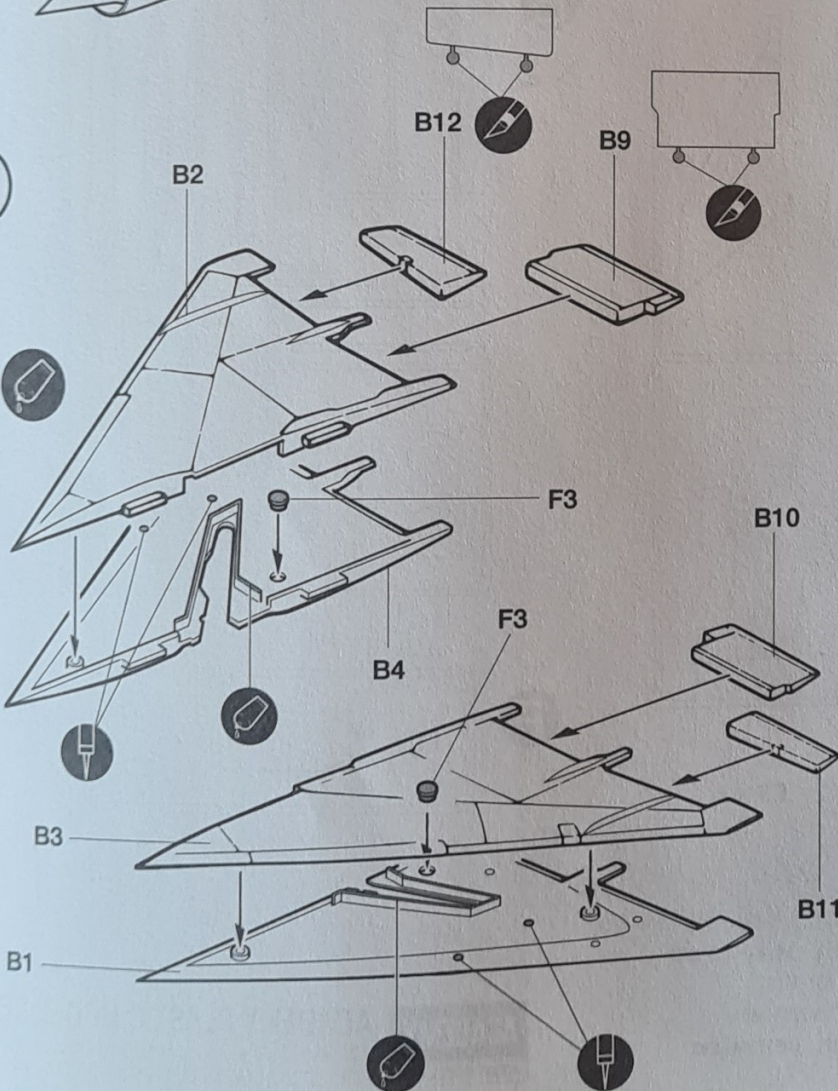
?

■ LATE VERSION 후기형

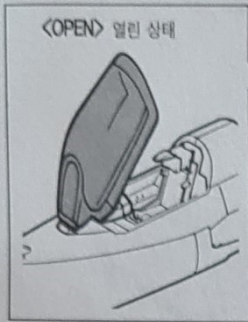
C3

C4

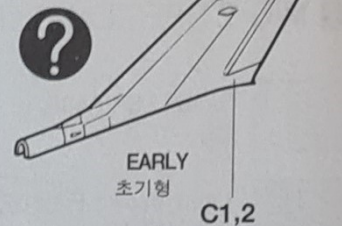
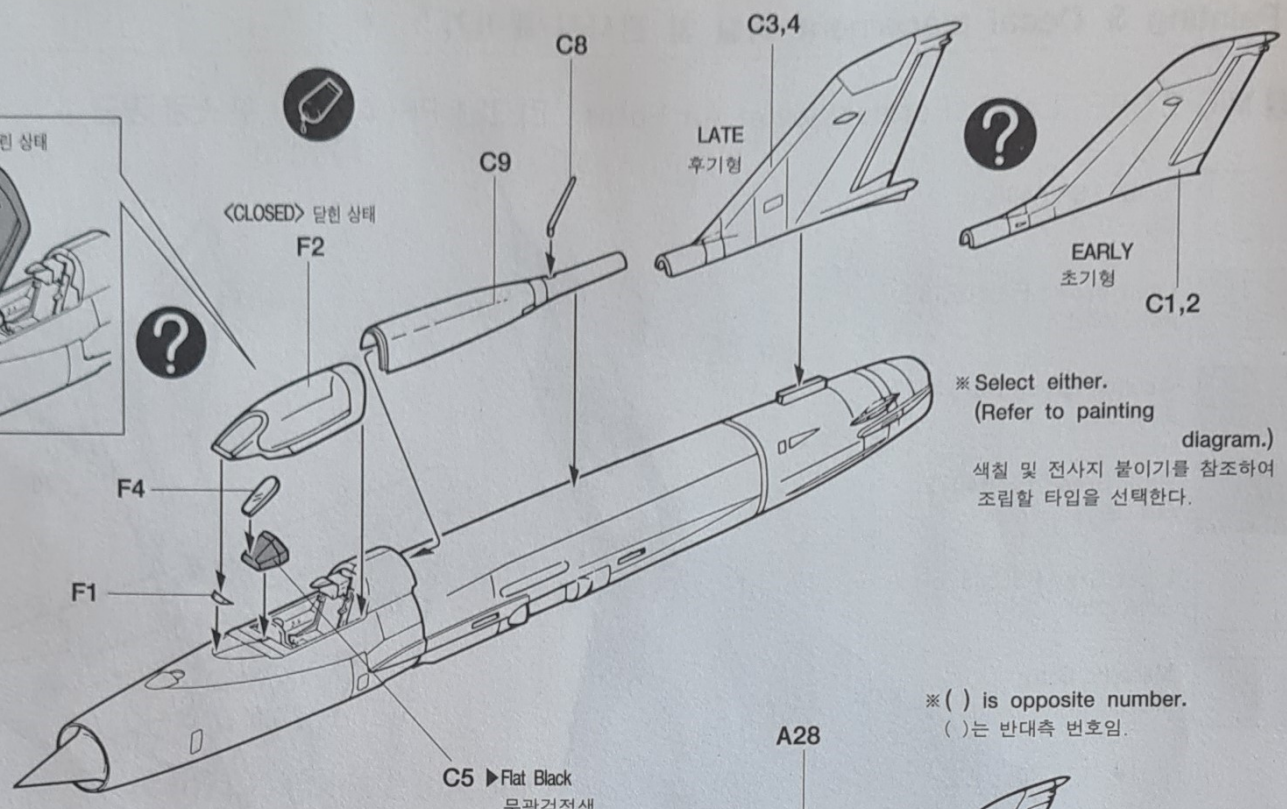
※ Refer to painting Diagram.
색칠 및 전자지 붙이기 참조



5



<CLOSED> 닫힌 상태

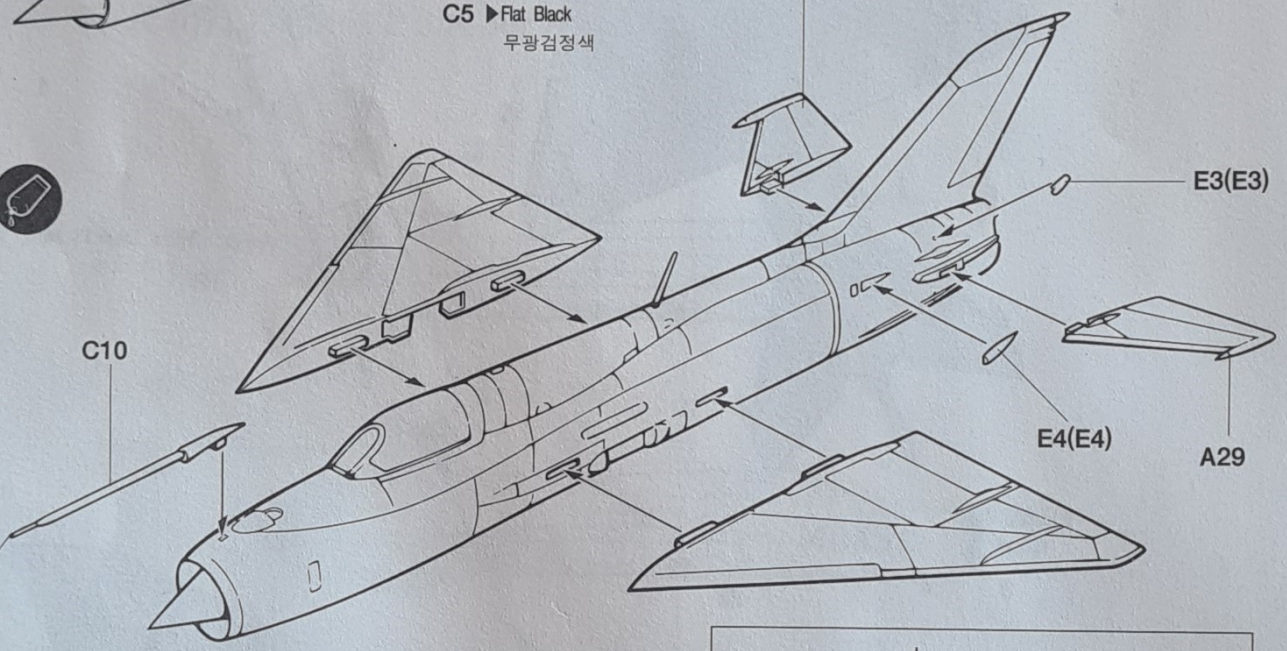
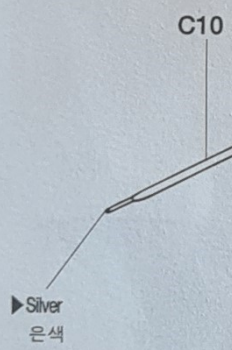


※ Select either. (Refer to painting diagram.)
색칠 및 전사지 붙이기를 참조하여
조립할 타입을 선택한다.

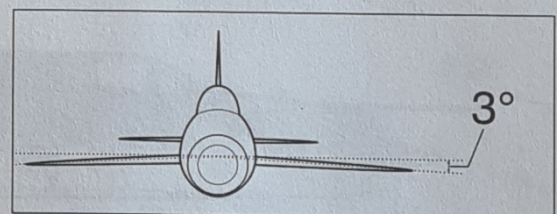
※ () is opposite number.
()는 반대측 번호임.

C5 ▶ Flat Black
무광검정색

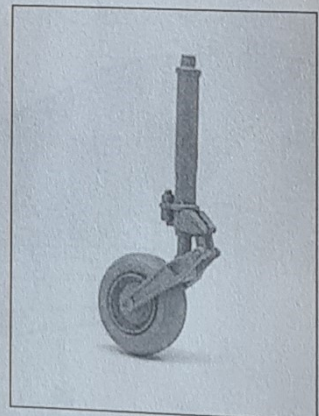
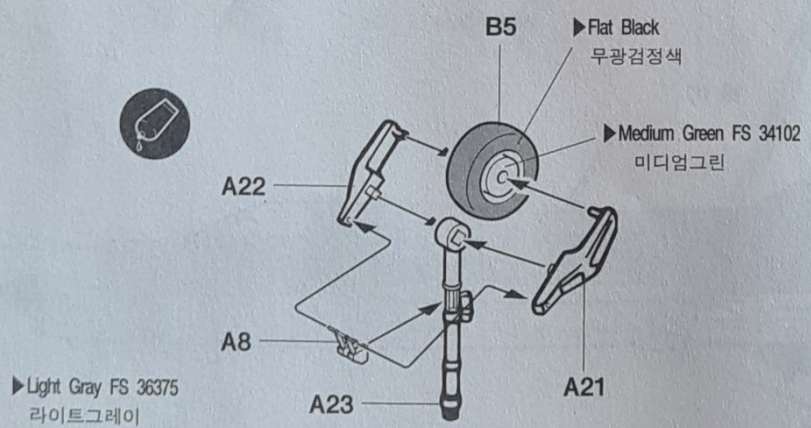
6



※ Remove the useless portions.
불필요한 부분을 잘라낸다.



7

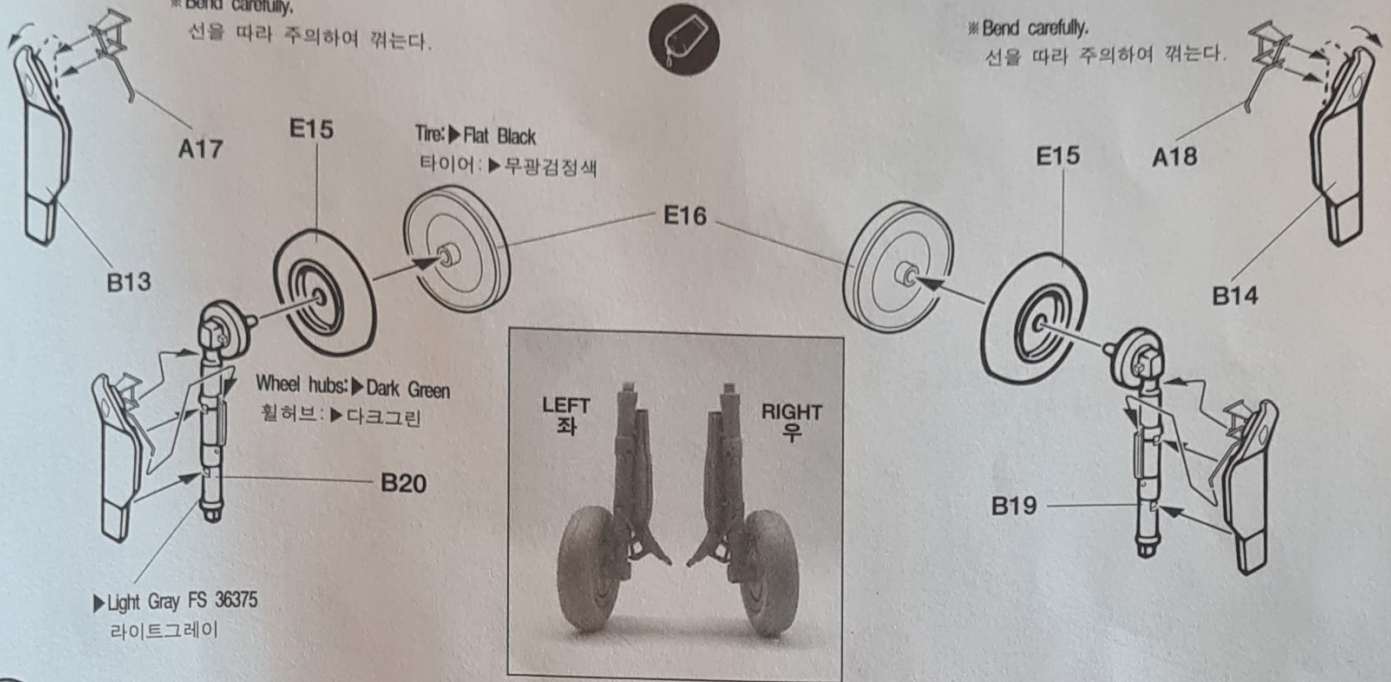


■ LEFT 좌

■ RIGHT 우

※ Bend carefully.
선을 따라 주의하여 꺾는다.

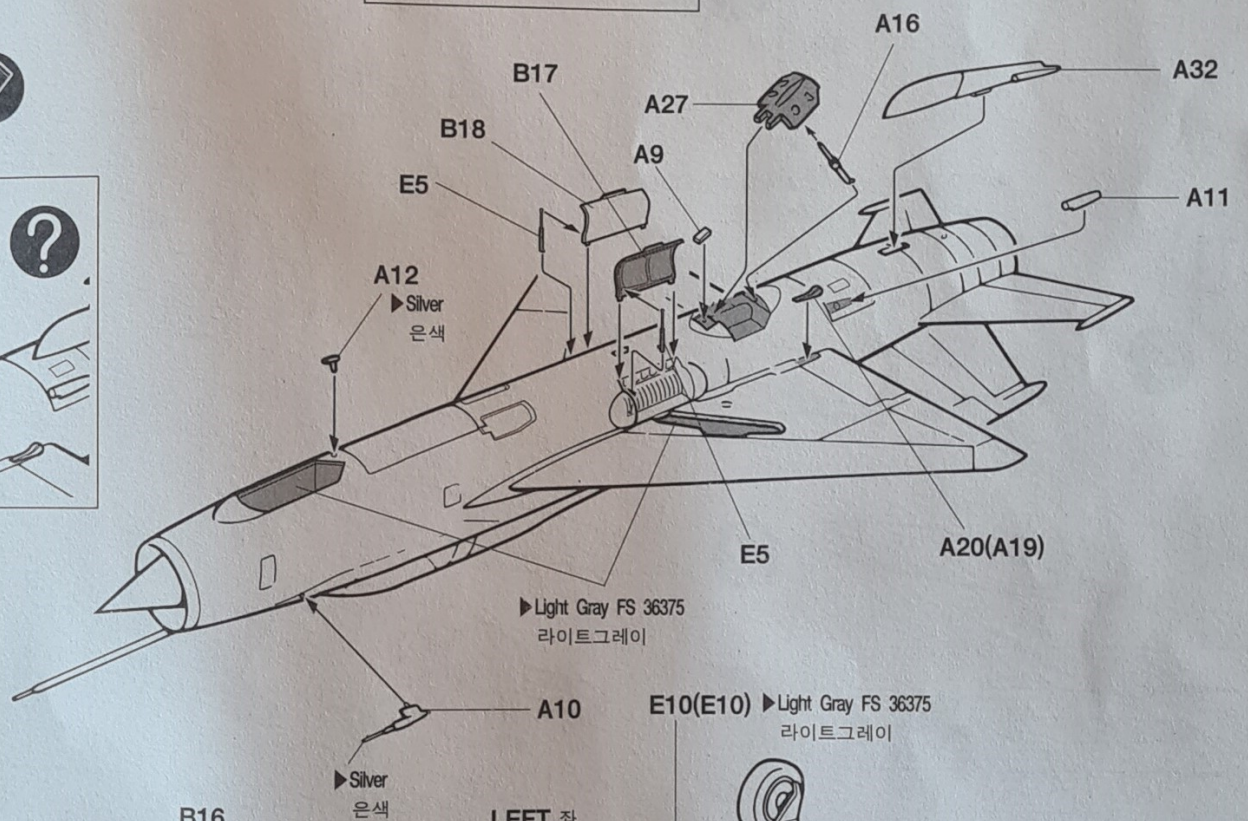
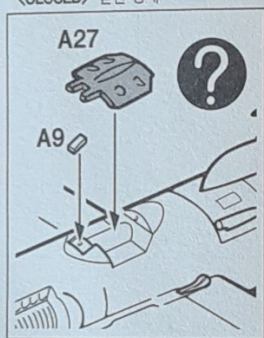
※ Bend carefully.
선을 따라 주의하여 꺾는다.



8



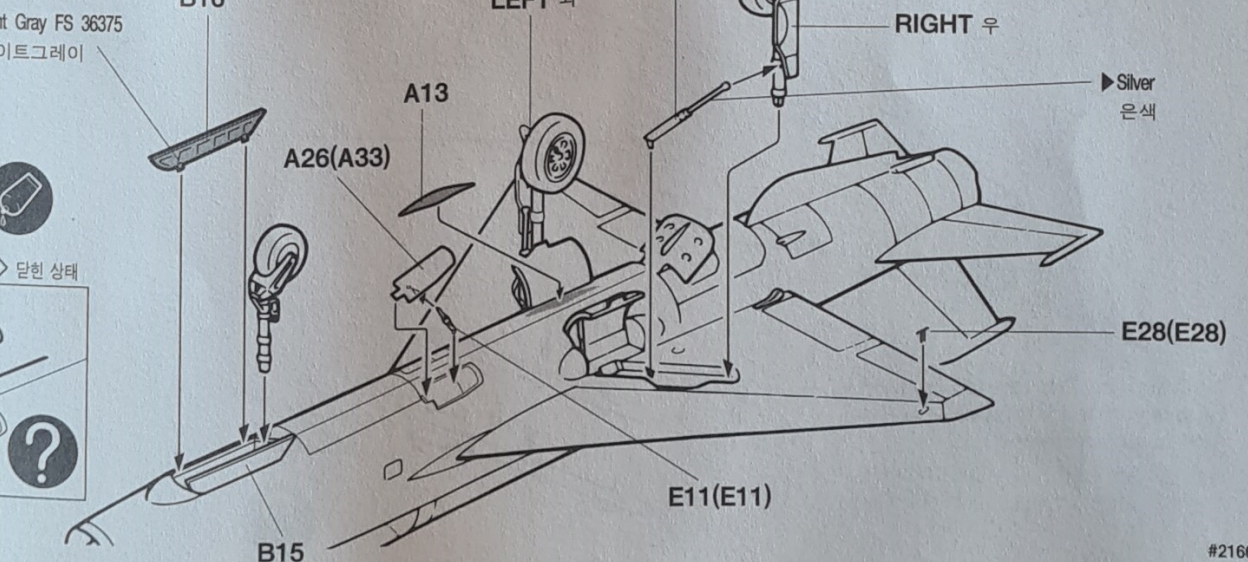
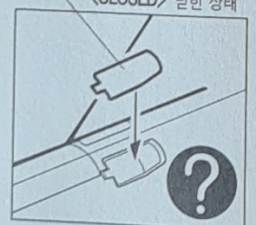
<CLOSED> 닫힌 상태



9

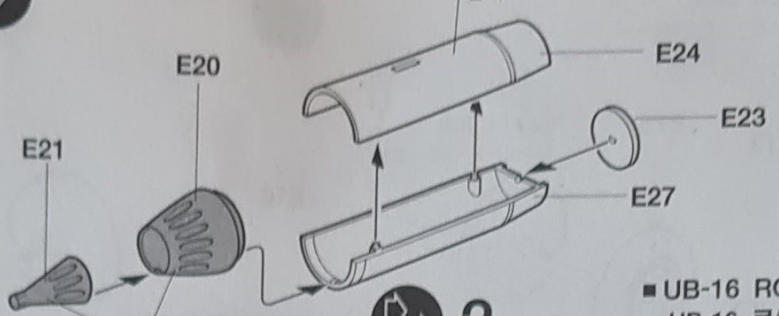


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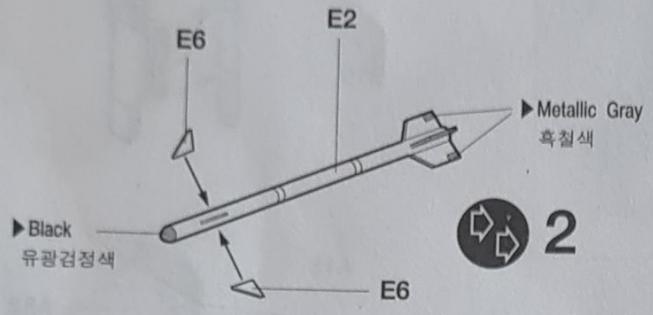
10

UB-32 ROCKET POD
UB-32 로켓포드

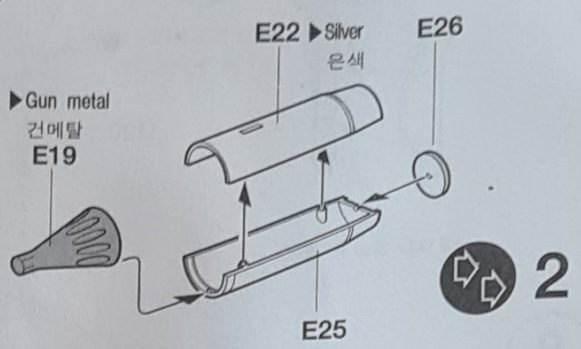


K-13(AA-2) "ATOLL" MISSILE
K-13(AA-2) '아톨' 미사일

Gun metal
건메탈

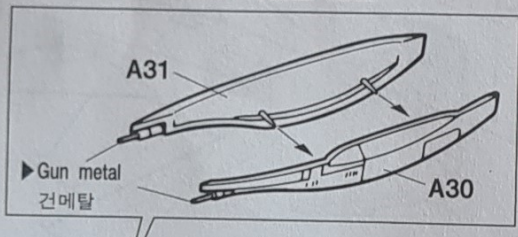


UB-16 ROCKET POD
UB-16 로켓포드

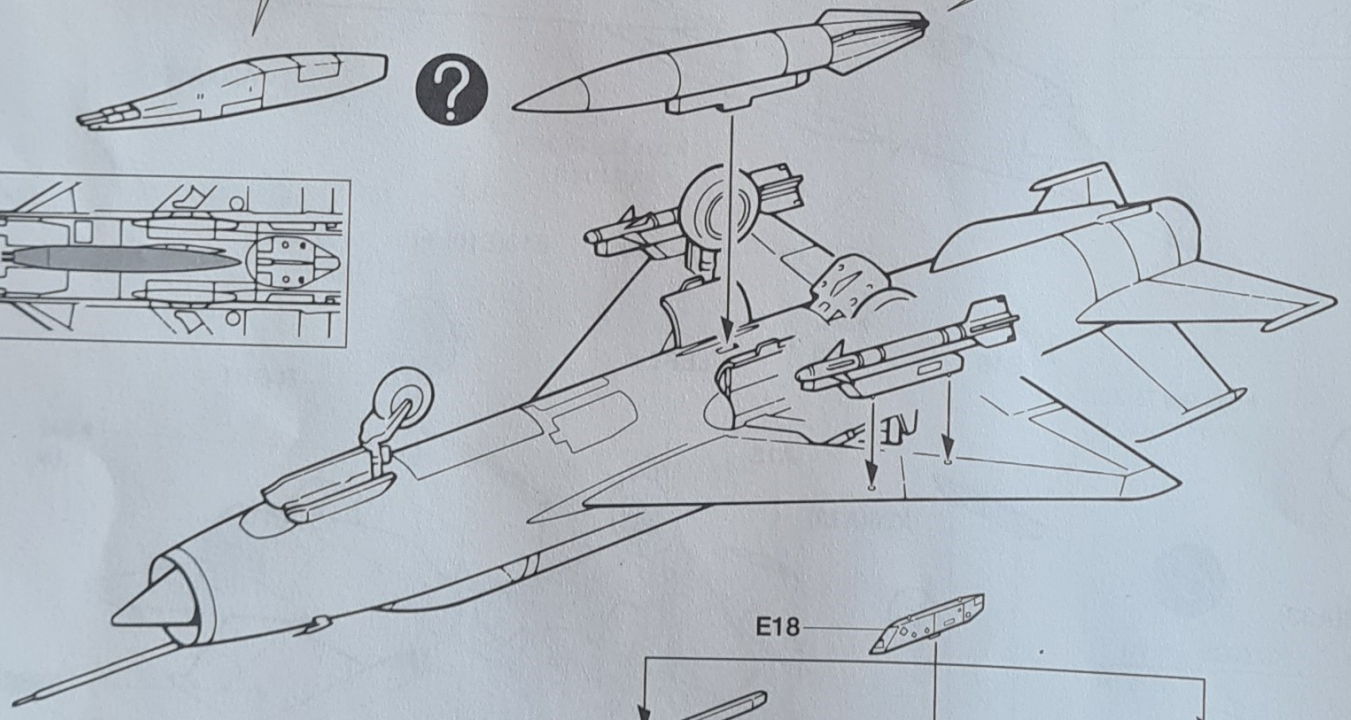
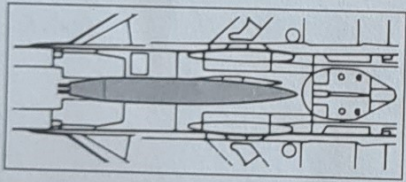
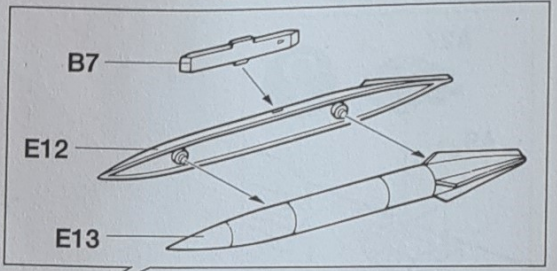
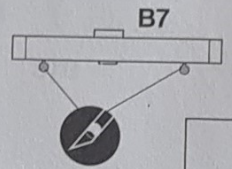


GP-9, 23mm CANNON POD
GP-9 23mm 기관포 포드

11

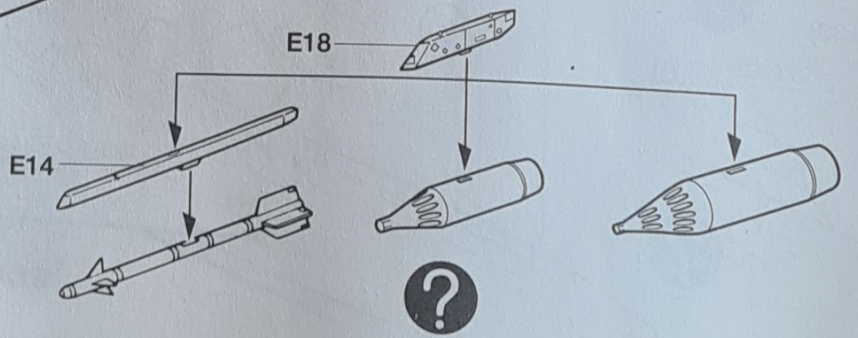


130gal. DROP TANK
130갤론 연료탱크



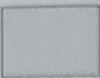
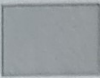


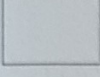
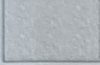
*The Cannon pod, Drop tank and Pylons are the same color as the underside of fuselage. (Refer to painting diagram.)

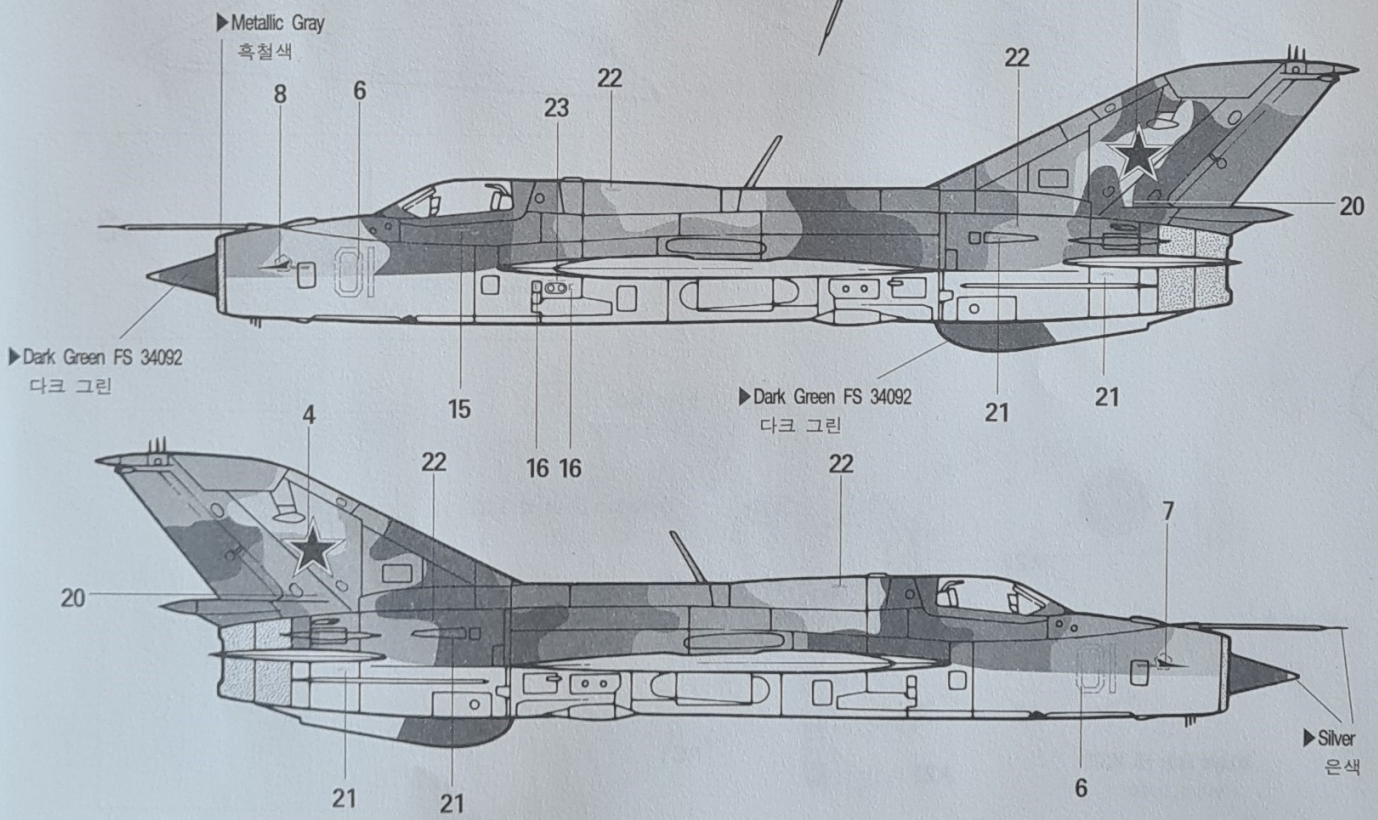
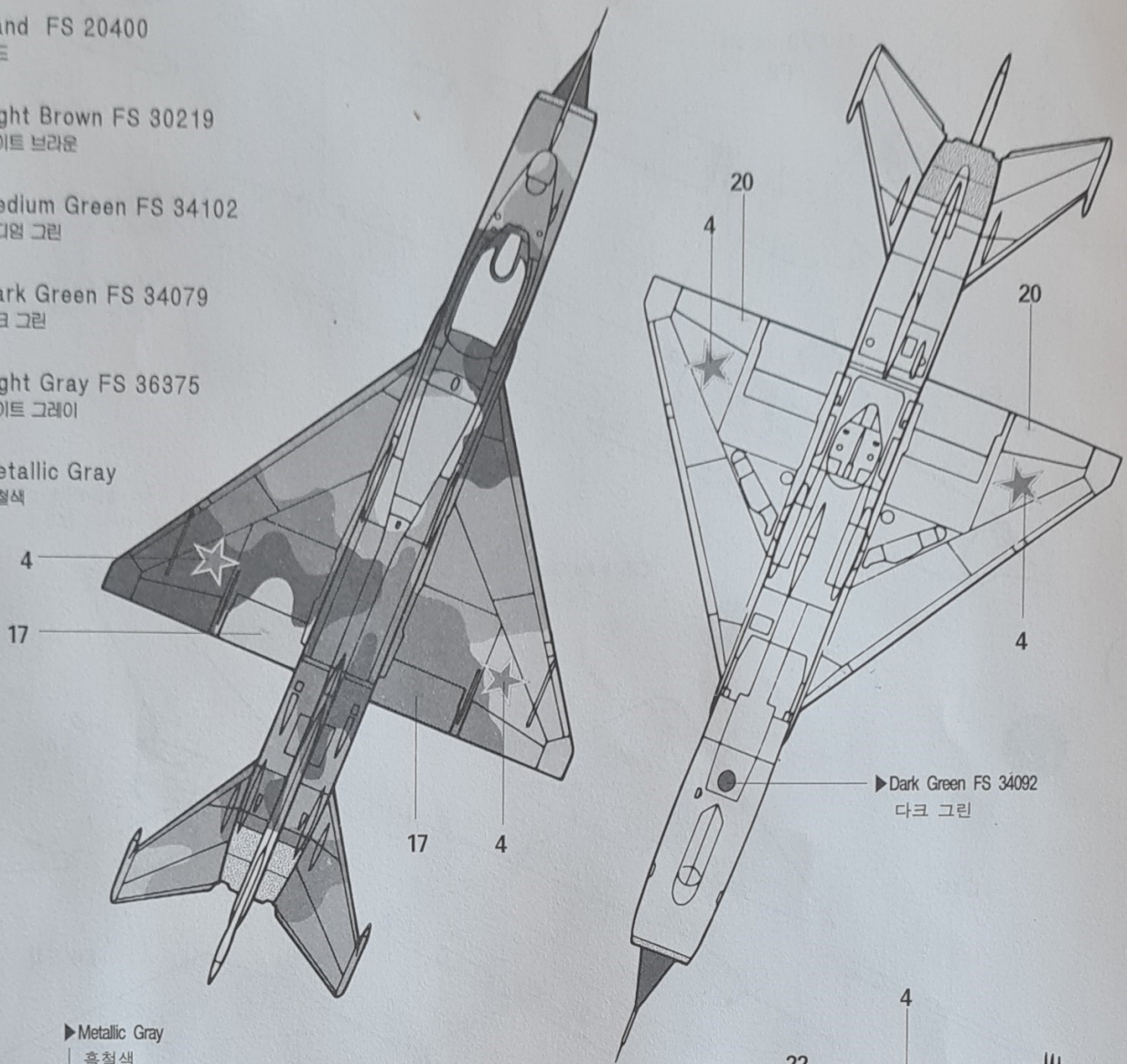
기관포 포드, 연료탱크 및 무장장착대의 색은 기체 하면색과 동일함. (색칠 및 전사지 붙이기 참조)



■ Painting & Decal placement 색칠 및 전사지 붙이기






1 MiG-21 PF (Late), Former Soviet Air Force 미그21 PF(후기형), 구 소련 공군

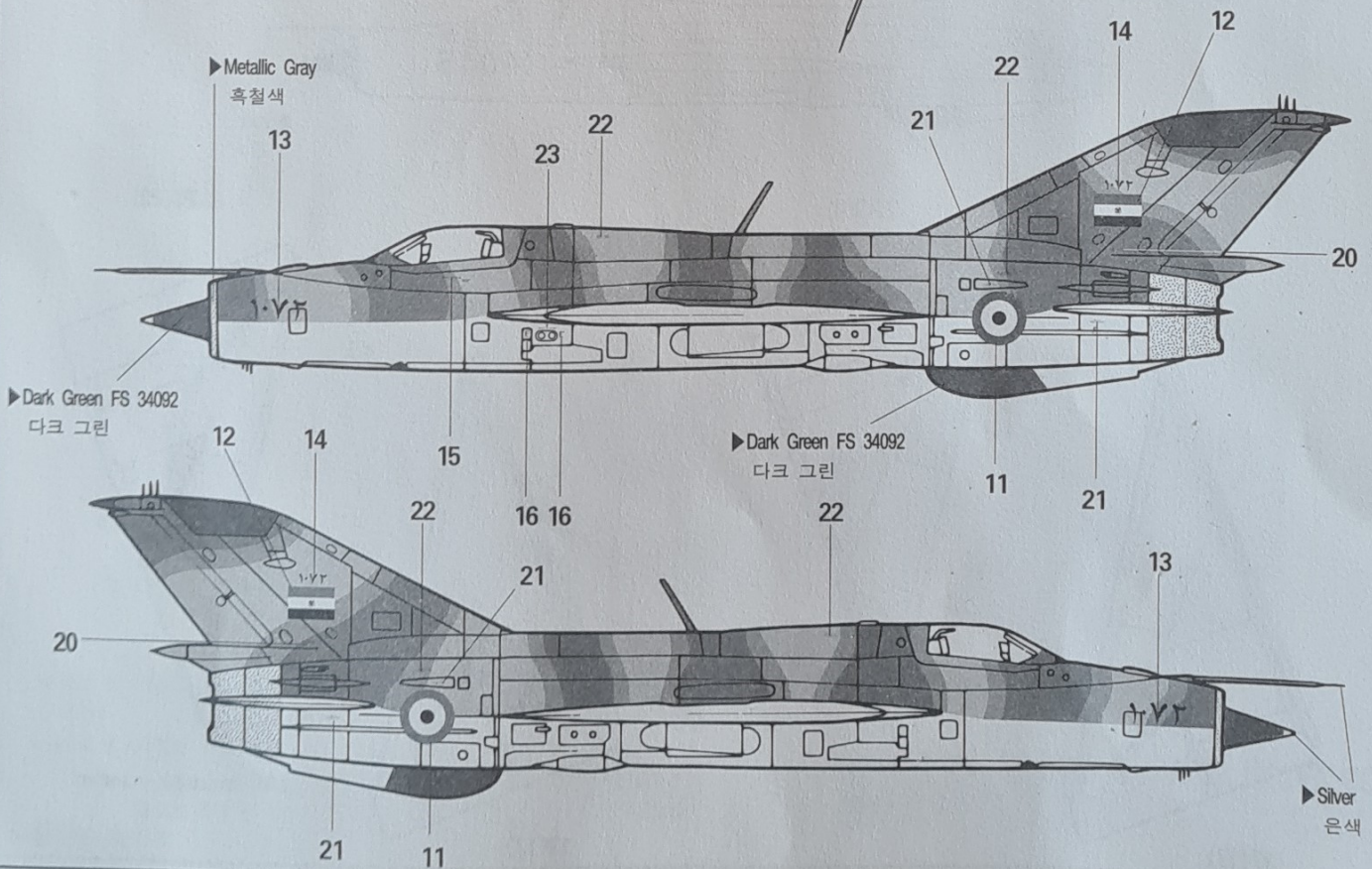
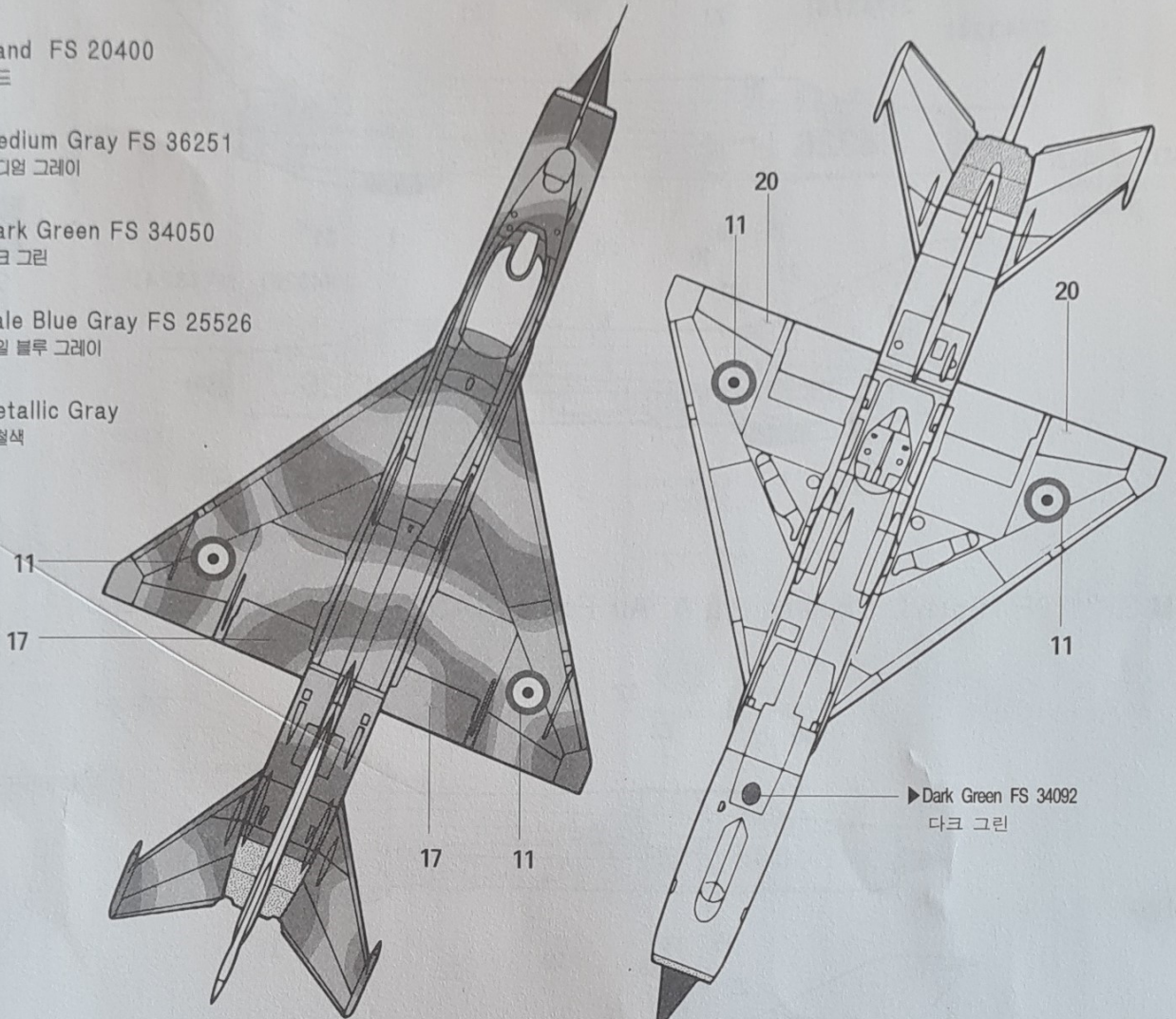
-  Sand FS 20400
샌드
-  Light Brown FS 30219
라이트 브라운
-  Medium Green FS 34102
미디엄 그린
-  Dark Green FS 34079
다크 그린
-  Light Gray FS 36375
라이트 그레이
-  Metallic Gray
흑철색



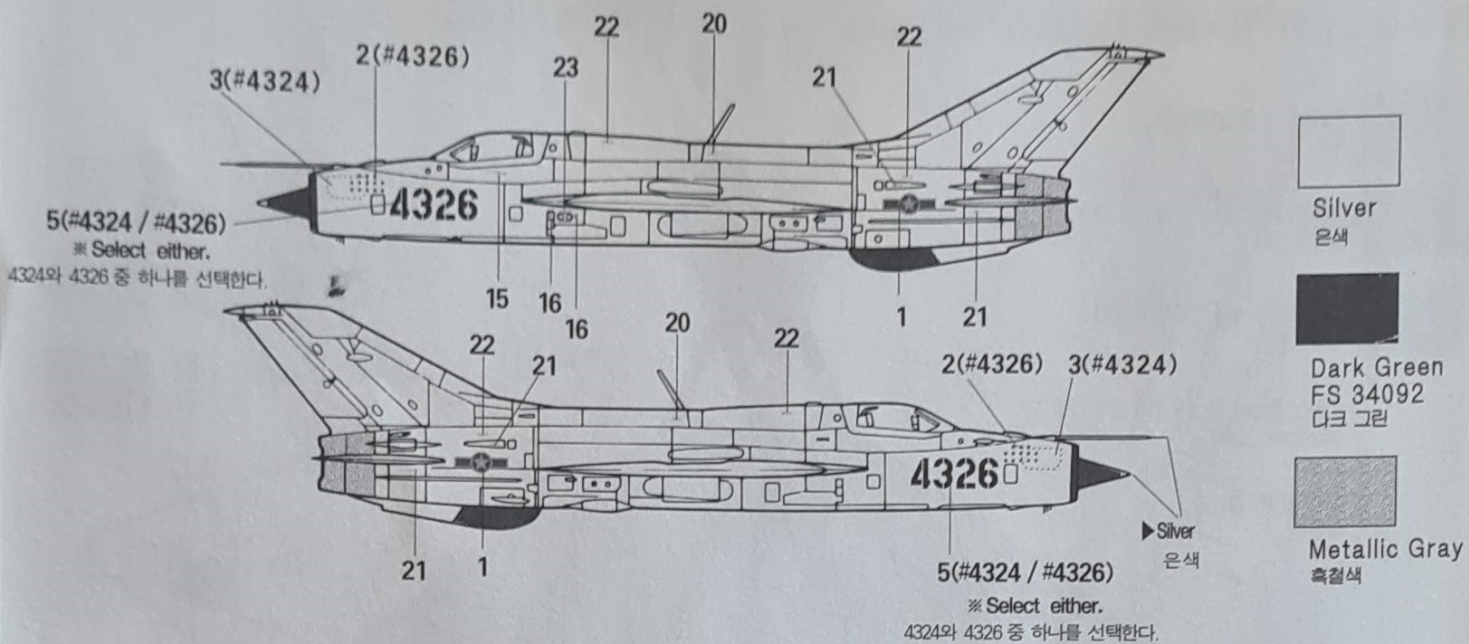
■ MiG-21PF Fishbed Painting & Decal placement 색칠 및 전사지 붙이기

2 MiG-21 PF (Late), Egyptian Air Force 미그21 PF(후기형), 이집트 공군

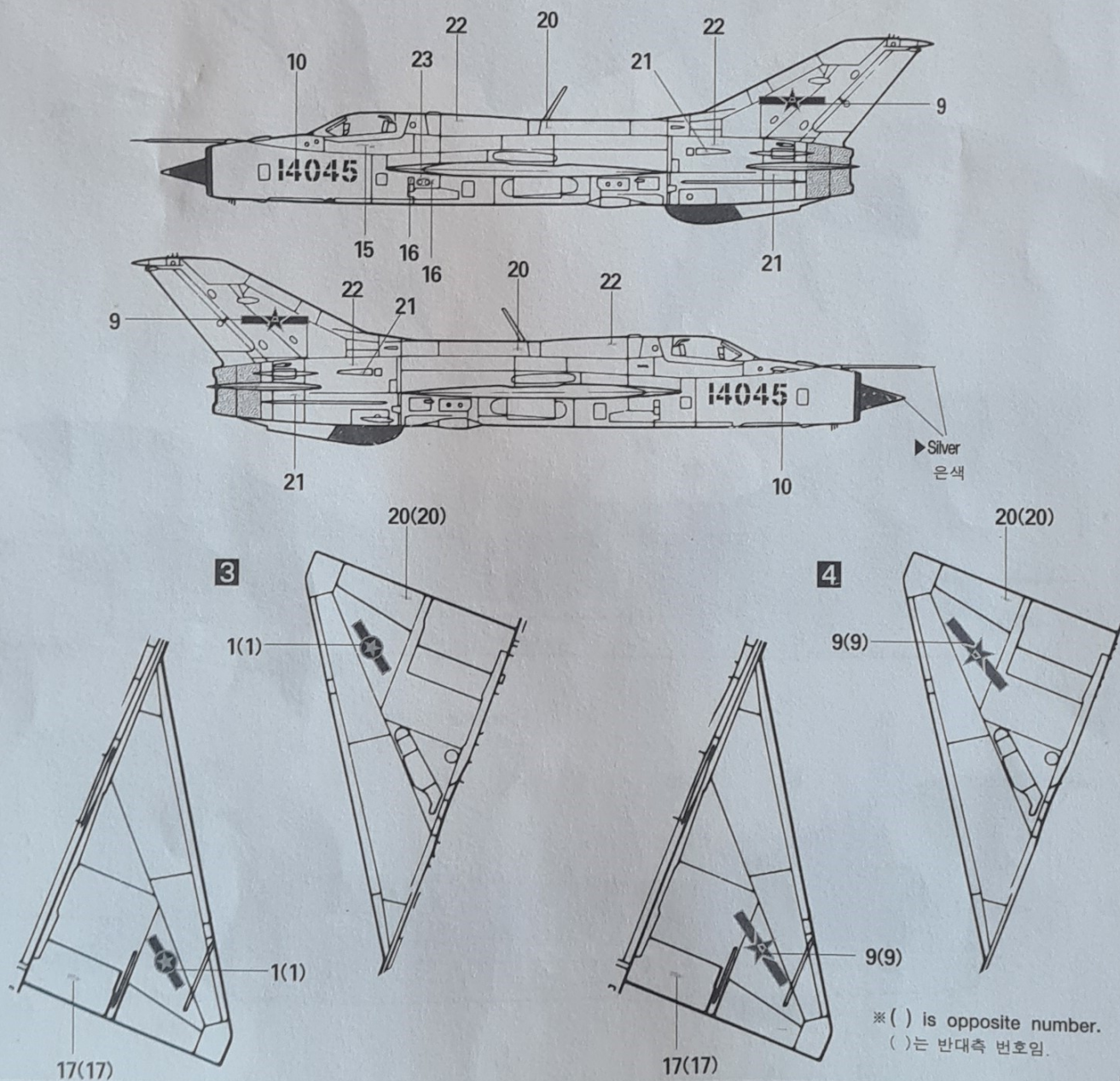
-  Sand FS 20400
샌드
-  Medium Gray FS 36251
미디엄 그레이
-  Dark Green FS 34050
다크 그린
-  Pale Blue Gray FS 25526
패일 블루 그레이
-  Metallic Gray
흑철색



3 MiG-21 PF (Early), North Vietnamese Air Force 미그21 PF(초기형), 북 베트남 공군

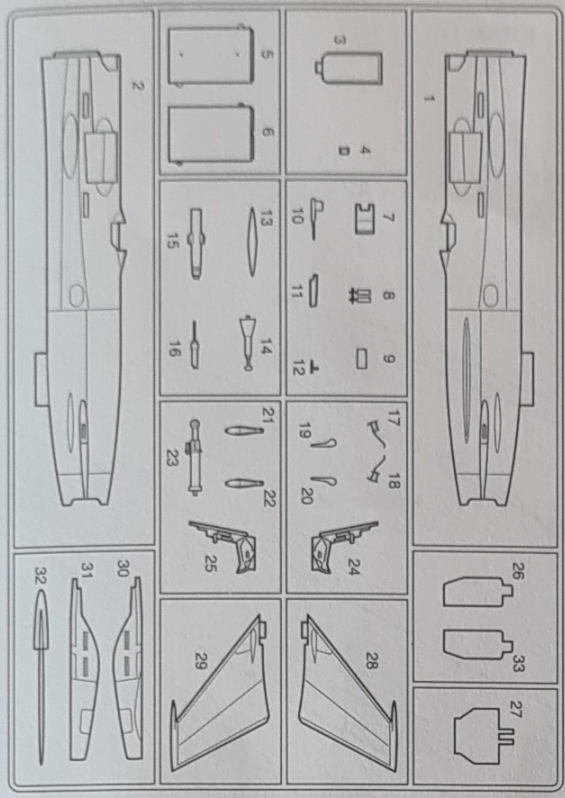


4 MiG-21 PF (Early), Chinese P.L.A. Air Force 미그21 PF(초기형), 중국 공군

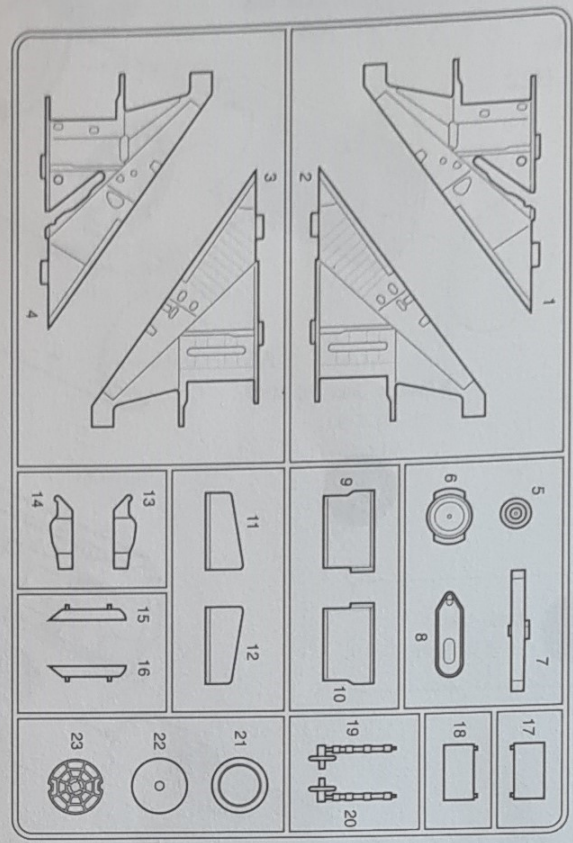


Parts Locating Diagram 부품도

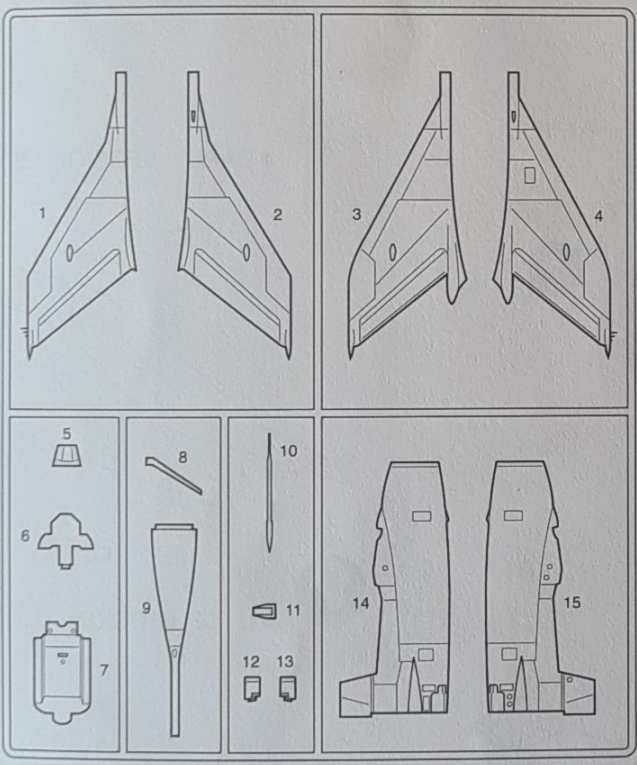
A



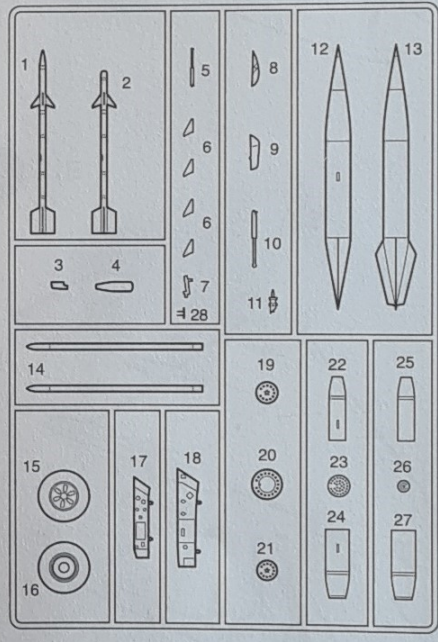
B



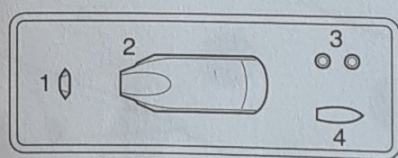
C



E
× 2



F



● **UNUSED PARTS** 불필요 부품:
A3, A4, A15, E1×2, E6×4, E8×2, E9×2, E12×1, E13×1, E14×2, E17×2

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