

# Tornado IDS



**No 2520** model kit  
modèle réduit

**1:32** scale  
échelle



AERONAUTICA  
MILITARE

## Instruction sheet



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40012 Calderara di Reno  
Bologna - Italy  
www.italeri.com

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Made in Italy

**1:32** scale

**No 2520**

# Tornado IDS

**EN**

The Tornado arose from a collaborative project between Italy, Germany, and the United Kingdom to produce a multi-role high-performance combat aircraft. The primary requirement however was to develop a 'state of the art' modern aircraft able to perform low-altitude penetrating strike missions. This need was met by the development of a twin-engine combat aircraft with a variable-sweep wing. The Tornado IDS (Interdictor / strike) was the first version to be released by the British Royal Air Force and designated GR.1 Tornado IDS (Interdictor / strike), an aircraft ideally suited to attack roles, was the initial version used by the Flight Squadrons of the three countries that developed the plane, the Italian Aeronautica Militare, the German Luftwaffe and the UK RAF. The Tornado IDS was used in different scenarios where it was able to demonstrate its operational efficiency.

**FR**

Le projet du Tornado est né de la collaboration entre l'Italie, l'Allemagne et le Royaume-Uni pour réaliser un avion de combat multifonction avec des performances de vol élevées. C'est ainsi qu'a été développé un avion bimoteur, avec une configuration biplace et des ailes à géométrie variable pour mieux répondre à son rôle principal : un chasseur-bombardier supersonique de basse altitude en mesure de « suivre » le profil du terrain. Le Tornado IDS (Interdictor/Strike), idéal pour les missions d'attaque, a été le premier à être utilisé par les services opérationnels de vol des trois pays qui ont développé le projet. À partir du projet initial, la version ECR (Electronic Combat/Reconnaissance). Le Tornado IDS a été utilisé dans différents scénarios où il a pu démontrer son efficacité opérationnelle.

## **EN** ATTENTION - Useful advice!

Avant de commencer le montage, étudier attentivement le dessin. Détacher avec beaucoup de soin les morceaux des moules en usant un massicot ou bien un pair de ciseaux et couper avec une petite lame avec de papier de vitre fin ébarbés éventuels. Jamais détacher les morceaux avec le mains Monter les en suivant l'ordre de la numération des tables. Eliminer de la moule le numéro de la pièce qui vient d'être montée, en le bifant avec une croix. Les flèches noires indiquent les pièces à coller, les flèches blanches indiquent les pièces à monter sans colle. Employer seulement de la colle pour polystirol. Les lettres (A - B - C...) aux côtés des numéros indiquent la moule où se trouve la pièces à monter. Les pièces marquées par une croix ne sont pas à utiliser.

## **FR** ATTENTION - Conseils utiles!

Avant de commencer le montage, étudier attentivement le dessin. Détacher avec beaucoup de soin les morceaux des moules en usant un massicot ou bien un pair de ciseaux et couper avec une petite lame avec de papier de vitre fin ébarbés éventuels. Jamais détacher les morceaux avec le mains Monter les en suivant l'ordre de la numération des tables. Eliminer de la moule le numéro de la pièce qui vient d'être montée, en le bifant avec une croix. Les flèches noires indiquent les pièces à coller, les flèches blanches indiquent les pièces à monter sans colle. Employer seulement de la colle pour polystirol. Les lettres (A - B - C...) aux côtés des numéros indiquent la moule où se trouve la pièces à monter. Les pièces marquées par une croix ne sont pas à utiliser.

**IT**

Il progetto del Tornado è nato dalla collaborazione di Italia, Germania e Regno Unito per la realizzazione di un aereo da combattimento multiruolo dalle alte prestazioni di volo. Venne così sviluppato un aereo bimotore, con configurazione biposto ed ali a geometria variabile per meglio rispondere al suo ruolo principale: caccia bombardiere supersonico a bassa quota in grado di "seguire" il profilo del terreno. Il Tornado IDS (Interdictor/strike), ideale per le missioni di attacco, è stato il primo ad essere impiegato dai reparti operativi di volo dei tre Paesi che svilupparono il progetto. Dal progetto originario venne realizzata anche la versione ECR (Electronic Combat/ Reconnaissance). Il Tornado IDS è stato utilizzato in diversi scenari dove ha potuto dimostrare la sua efficienza operativa.

**RU**

Проект «Торнадо» (Tornado) родился в результате сотрудничества Италии, Германии и Великобритании по созданию многоцелевого истребителя с высокими летно-техническими характеристиками. Таким образом, был разработан двухмоторный самолет с двухместной конфигурацией и изменяемой геометрией крыльев, чтобы лучше выполнять его основную задачу: маловысотный сверхзвуковой истребитель-бомбардировщик, способный «следовать» контурам местности. «Торнадо» IDS (изоляция сил противника и нанесение удара), идеально подходящий для атакующих миссий, был первым, который использовался летными подразделениями трех стран, разработавших этот проект. Из первоначального проекта также была создана версия ECR (ведение разведки и радиоэлектронной борьбы). Система Tornado IDS использовалась в различных сценариях, где она смогла продемонстрировать свою эксплуатационную эффективность.



**EN** WARNING: Model for adult modelers age 14 and over  
**IT** ATTENZIONE: Modello per collezionisti adulti di età superiore ai 14 anni  
**FR** ATTENTION: Modèle pour modélistes de 14 ans et plus.  
**DE** ACHTUNG: Modellbausatz für Modellbauer über 14 Jahre.  
**NL** WAARSCHWING: Geschikt voor 14 jaar en ouder.  
**ES** ATENCION: Modelo para modelistas mayores de 14 años.

## **IT** ATTENZIONE - Consigli utili!

Prima di iniziare il montaggio studiare attentamente il disegno. Staccare con molta cura i pezzi dalle stampe, usando un taglia-balsa oppure un paio di forbici e togliere con una piccola lima o con carta vetro fine eventuali sbavature. Mai staccare i pezzi con le mani. Montarli seguendo l'ordine delle numerazioni delle tavole. Eliminare dalla stampata il numero del pezzo appena montato facendogli sopra una croce. Le frecce nere indicano i pezzi da incollare, le frecce bianche indicano i pezzi da montare senza colla. Usare solo colla per polistirolo. Le lettere (A - B - C...) ai lati dei numeri indicano la stampata ove si trova il pezzo da montare. I pezzi sbarrati da una croce non sono da utilizzare.

## **RU** предупреждение - чаевые!

Перед тем, как приступить к сборке, внимательно изучить чертёж. Очень осторожно отсоединить распечатанные элементы, использовать для этого канцелярский нож или пару ножниц, снять неровности с помощью тонкого лезвия или с помощью абразивной бумаги. Не отсоединять элементы руками. Выполнить сборку согласно порядку нумерации таблиц. Удалить из списка только что собранную деталь, перечёркивая её. Чёрные стрелки указывают детали для склеивания, белые стрелки указывают детали, которые собираются без клея. Использовать только клей для пенопласта. Буквы (A - B - C...) на пронумерованных сторона указывают лист, где находится деталь. Перечёрнутые детали не используются.

**DE**

Das Projekt Tornado ist aus der Zusammenarbeit von Italien, Deutschland und Großbritannien entstanden, um ein Mehrzweckkampfflugzeug mit hoher Flugleistung zu bauen. So wurde ein zweimotoriges Flugzeug mit einer zweiseitigen Konfiguration und Schwenkflügeln entwickelt, um seiner Hauptanforderung besser gerecht zu werden: Ein Überschalljagdbomber, der im tiefst Flug in der Lage ist, dem Geländeprofil zu „folgen“. Der für Angriffseinsätze ideale Tornado IDS (Interdictor/Strike) ist der erste, der von den Flugbetriebsabteilungen der drei Länder, die das Projekt entwickelt haben, eingesetzt wurde. Aus dem ursprünglichen Projekt wurde auch die ECR-Version (Electronic Combat / Reconnaissance).. Das Tornado IDS wurde in verschiedenen Szenarien eingesetzt, in denen es seine Betriebseffizienz unter Beweis stellen konnte.

**ES**

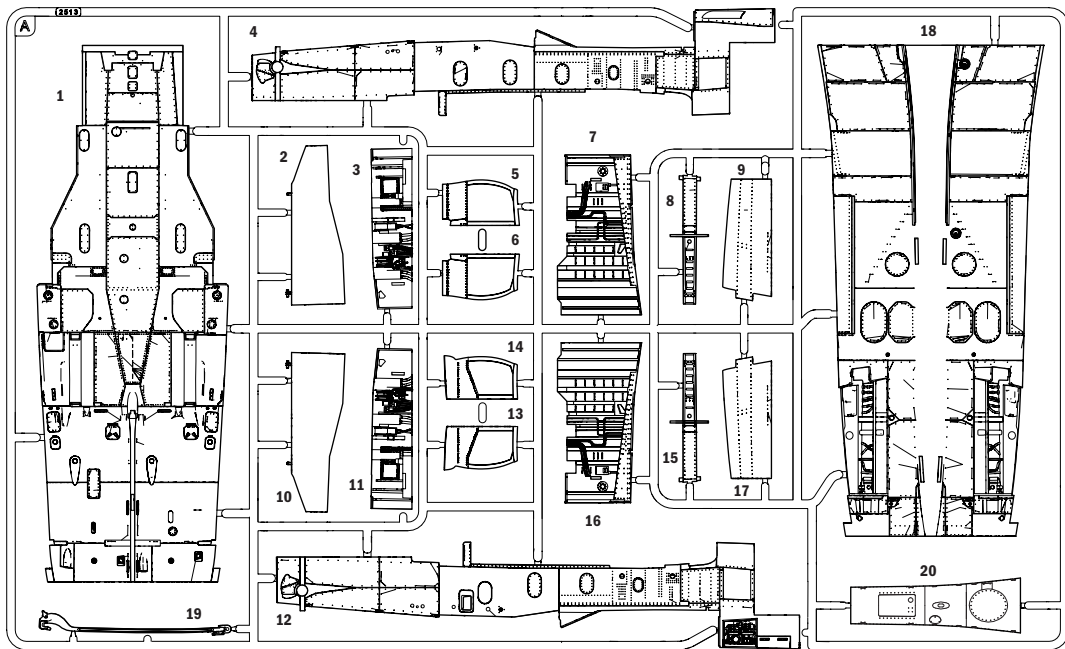
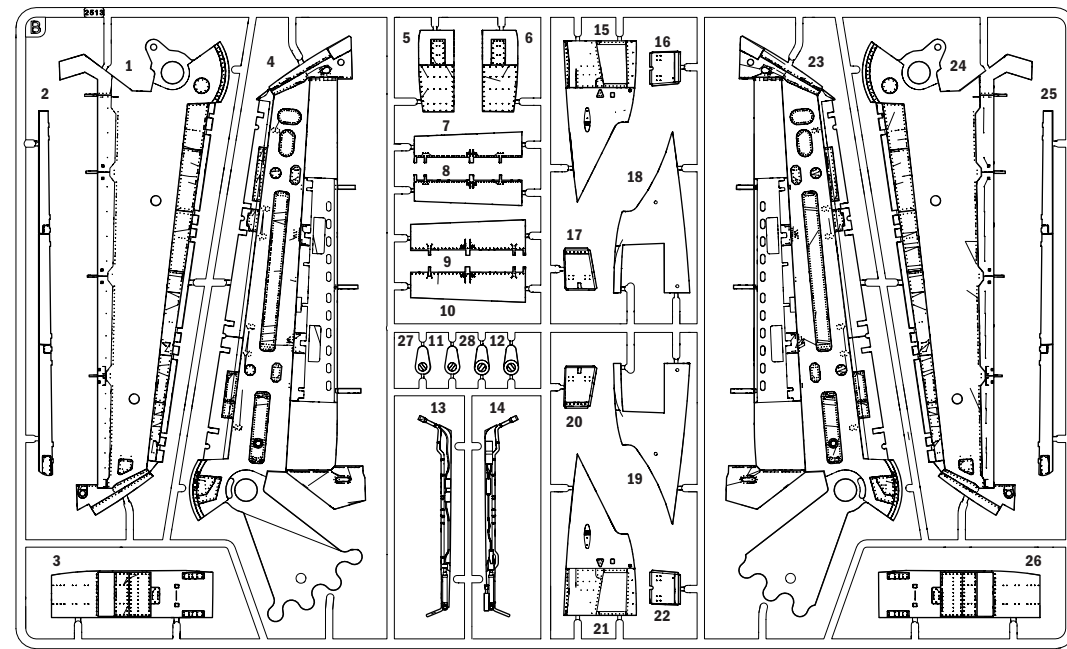
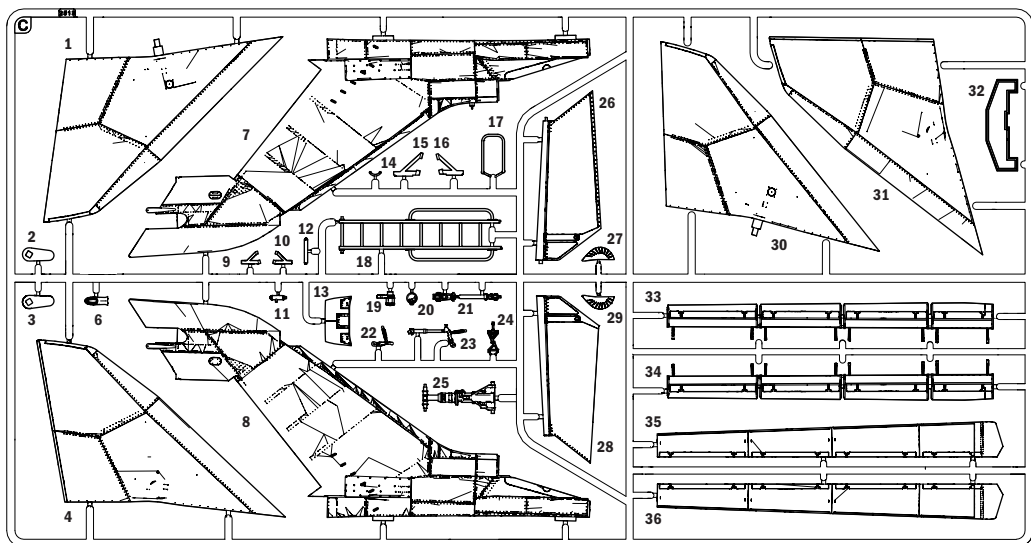
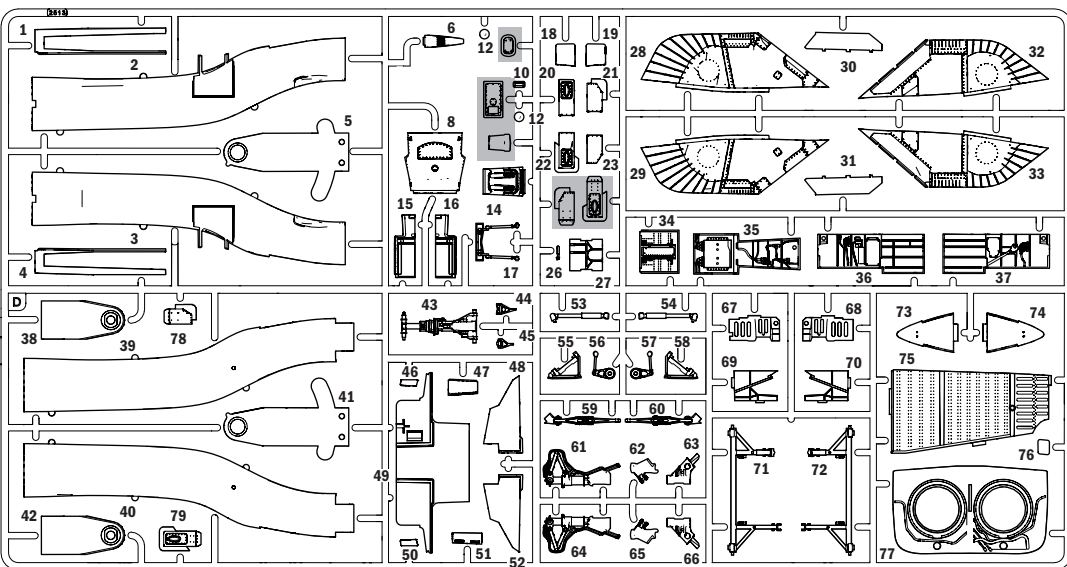
El proyecto del Tornado nació de la colaboración de Italia, Alemania y Reino Unido para la realización de un avión de combate multiusos con elevadas prestaciones de vuelo. De esta manera se desarrolló un avión bimotor con configuración de dos puestos y alas de geometría variable, para cumplir mejor con su papel principal: cazabombardero supersónico de baja cota capaz de «seguir» el perfil del terreno. El Tornado IDS (Interdictor/strike), ideal para las misiones de ataque, fue el primero en ser utilizado por los departamentos de operaciones de vuelo de los tres países que desarrollaron el proyecto. A partir del proyecto original, también se creó la versión ECR (Electronic Combat/Reconnaissance). El Tornado IDS se utilizó en diferentes escenarios donde pudo demostrar su eficiencia operativa.

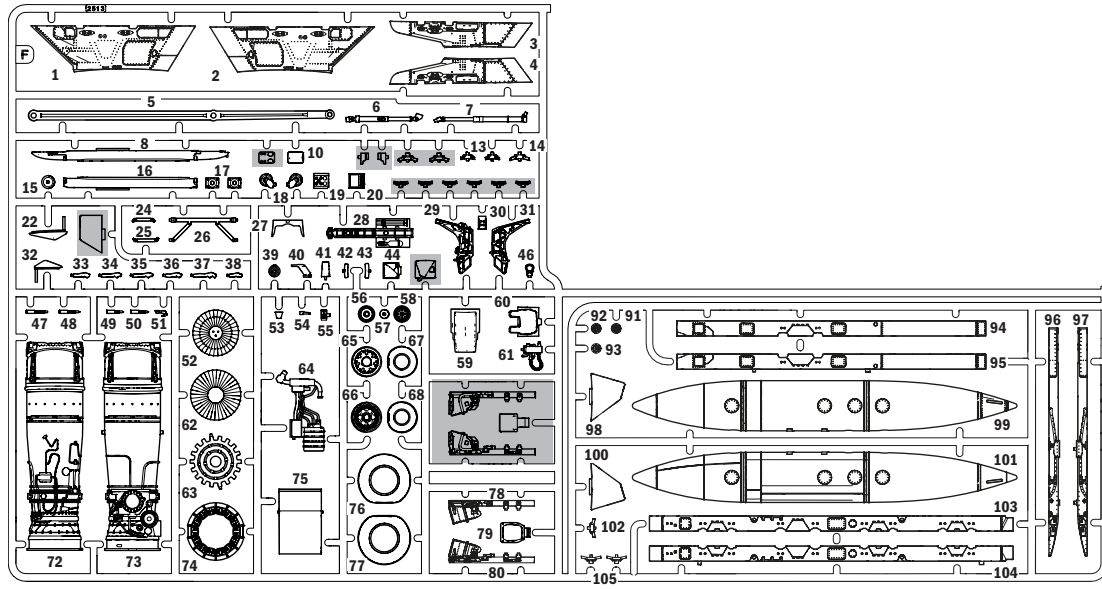
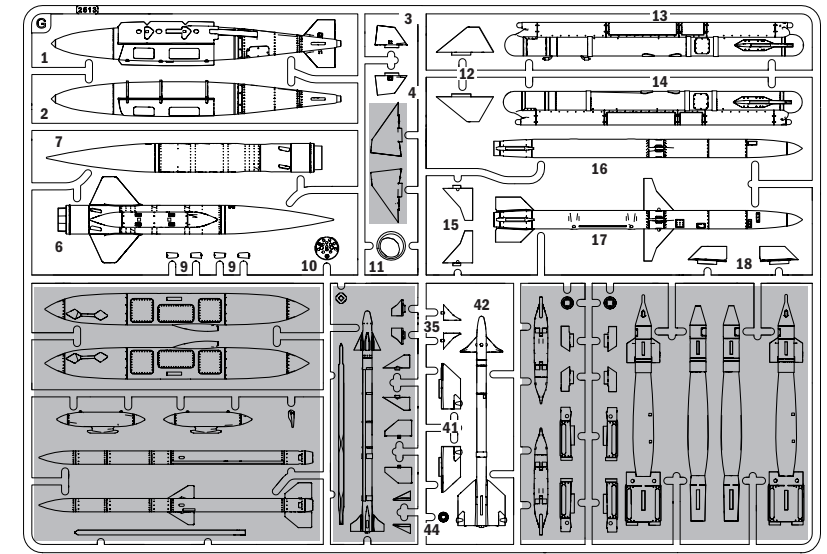
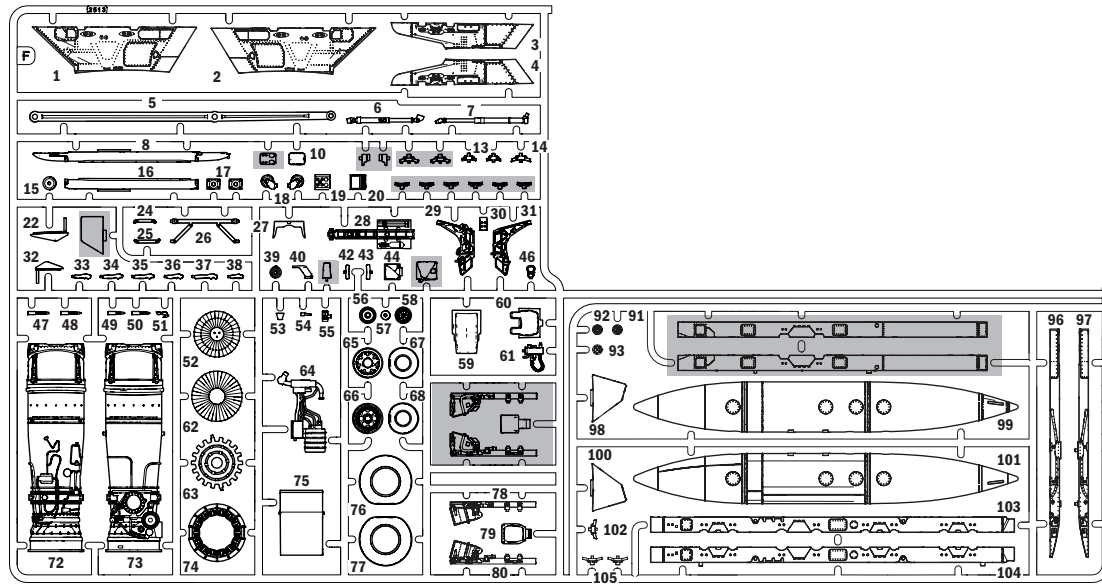
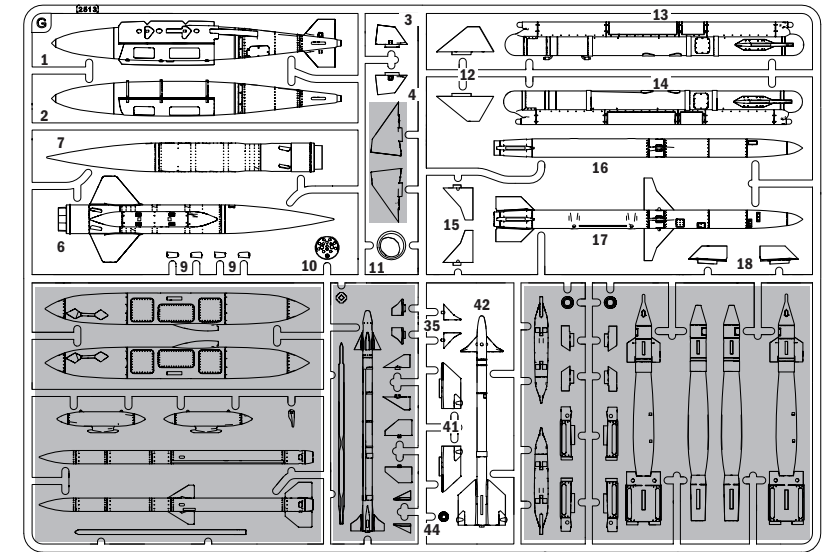
## **DE** ACHTUNG - Ein nützlicher Rat!

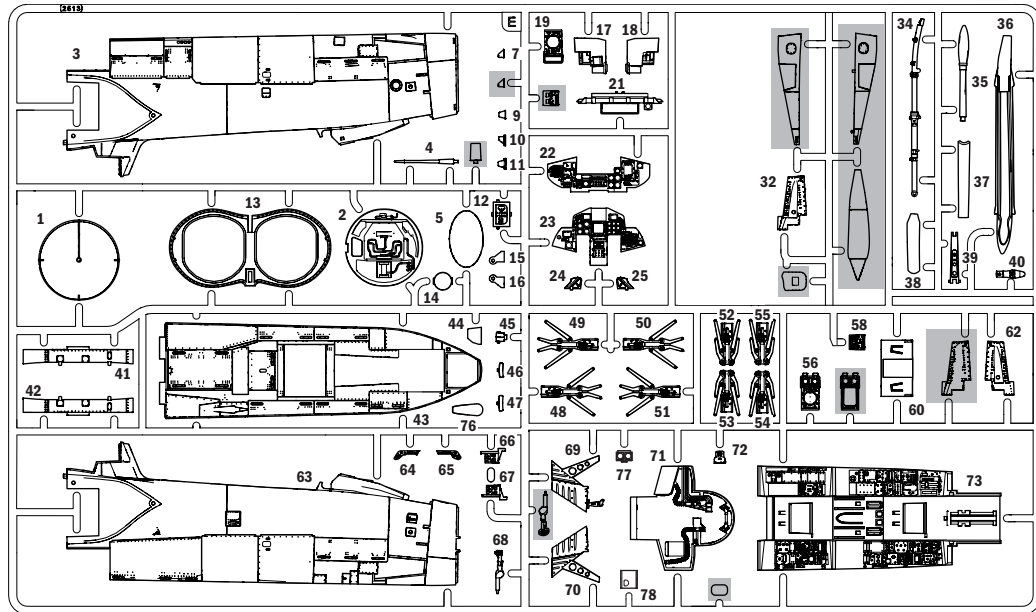
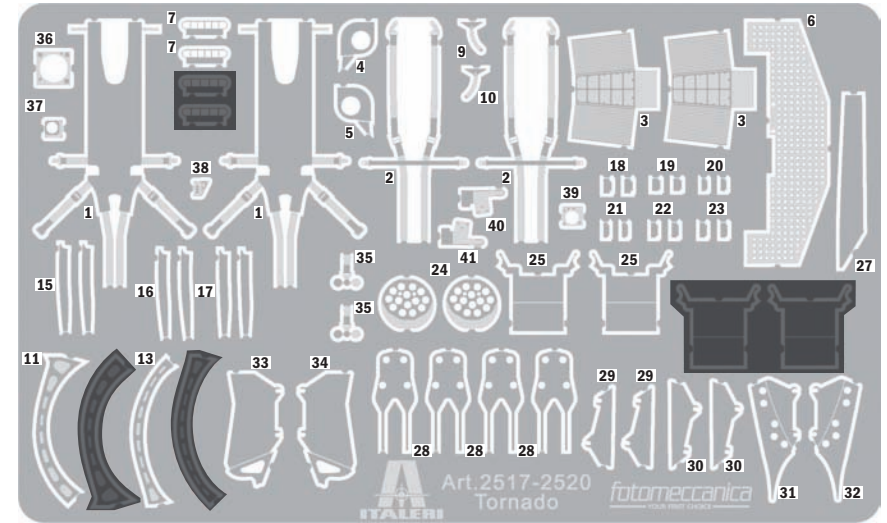
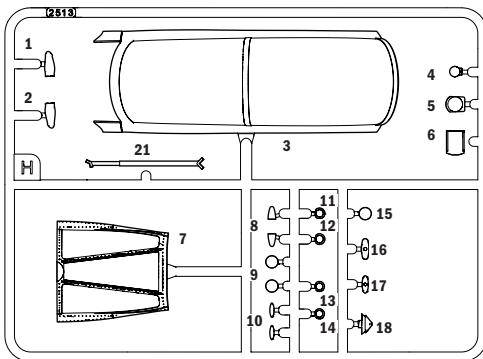
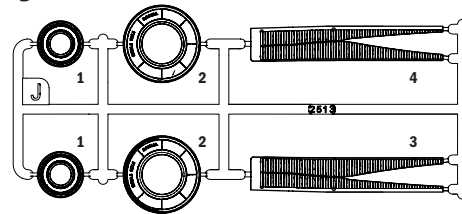
Vor der Montage die Zeichnung aufmerksam studieren. Die einzelnen Montageteile mit einem Messer oder einer Schere vom Spritzling sorgfältig entfernen. Eventuelle Grate werden mit einer Klinge oder feinem Schmirgelpapier beseitigt. Keinesfalls die Montageteile mit den Händen entfernen. Bei der Montage der Tafelnummerierung folgen. Pfeile zeigen die zu klebenden Teile während die weissen Pfeile die ohne Leim zu montierenden Teile anzeigen. Bitte nur Plastikklebstoff verwenden. Die Buchstaben (A - B - C...) neben den Nummern zeigt, auf welchem Spritzling der zu montierende Teil zu finden ist. Die mit einem Kreuz markierten Teile sind nicht zu verwenden.

## **ES** ATENCION - Consejos útiles!

Estudiar las instrucciones cuidadosamente antes de comenzar el montaje. Separar las piezas de las bandejas con un cuchillo afilado o un par de tijeras y retirar el exceso de plástico o rebada. No arrancar las piezas. Montar las piezas en orden numérico. Utilizar SOLAMENTE pegamento para plástico y en poca cantidad para evitar que se dane el modelo. Las flechas negras indican las piezas que se deben pegar juntas. Las flechas blancas indican las piezas que deben ensamblarse SIN usar pegamento. Las letras (A - B - C...) indican en que bandeja se encuentran las piezas. Pintar las piezas pequeñas antes de separarlas de la bandeja. Retirar la pintura de los lugares por donde se deban pegar las piezas.

**A****B****C****D**

**F****G****F****G**

**E****PE****H****J**

Parti da non utilizzare  
Parts not for use  
Pièces à ne pas utiliser  
Telle werden nicht verwenden  
Partes a no utilizar  
Onderdelen niet te gebruiken



Aprire i fori  
Drill holes  
Ouvrir les trous  
Die Locher Ausbohren  
Perforar los agujeros  
Open gaten



Separare  
Cut  
Retirer  
Entfernen  
Separar  
Gesneden



Aggiungere un peso  
Add a weight  
Ajouter un poids  
Fügen Sie ein Gewicht  
Añadir un peso  
Voeg een gewicht



**SCREW 14**  
**1,4 x 8mm**

Vite  
Screw  
Vis  
Schraube  
Tornillo  
Schroef

**SUGGESTED COLORS****A****FLAT BLACK**

F.S.37038

Italeri AcrylicPaint 4768AP

**G****FLAT ORANGE**

F.S.32197

Italeri AcrylicPaint 4302AP

**M****FLAT GREEN**

F.S.34102

Italeri AcrylicPaint 4862AP

**B****FLAT DARK GULL GRAY**

F.S.36231

Italeri AcrylicPaint 4755AP

**H****FLAT YELLOW**

F.S.33538

Italeri AcrylicPaint 4721AP

**N****METAL. GLOSS GOLD**

F.S.17043

Italeri AcrylicPaint 4671AP

**C****FLAT LIGHT GREEN**

F.S.34230

Italeri AcrylicPaint 4309AP

**I****FLAT MIDDLE STONE**

F.S.30266

Italeri AcrylicPaint 4304AP

**O****FLAT OLIVE DRAB**

F.S.34088

Italeri AcrylicPaint 4315 AP

**D****FLAT MEDIUM BLUE**

F.S.35095

Italeri AcrylicPaint 4307AP

**J****FLAT LIGHT GRAY**

F.S.36495

Italeri AcrylicPaint 4765AP

**P****FLAT LIGHT GHOST GRAY**

F.S.36375

**E****FLAT WHITE**

F.S.37875

Italeri AcrylicPaint 4769AP

**K****FLAT GUNSHIP GRAY**

F.S.36118

Italeri AcrylicPaint 4752AP

**Q****METAL. FLAT STEEL**

F.S.37178

Italeri AcrylicPaint 4679AP

**F****FLAT RED**

F.S.31400

Italeri AcrylicPaint 4606AP

**L****METAL. FLAT ALUMINIUM**

F.S.31178

Italeri AcrylicPaint 4677AP

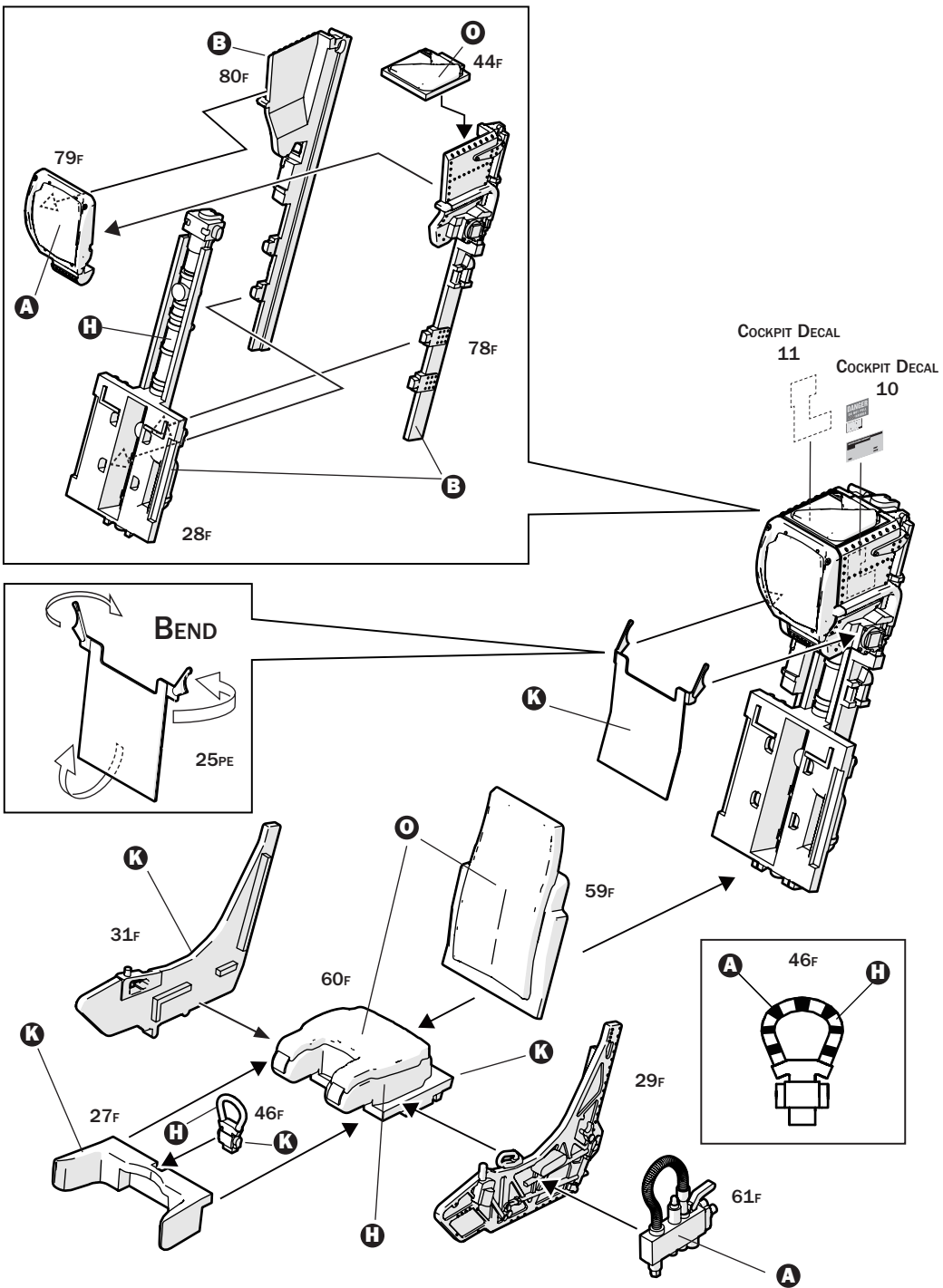
**R****FLAT GUN METAL**

F.S.37200

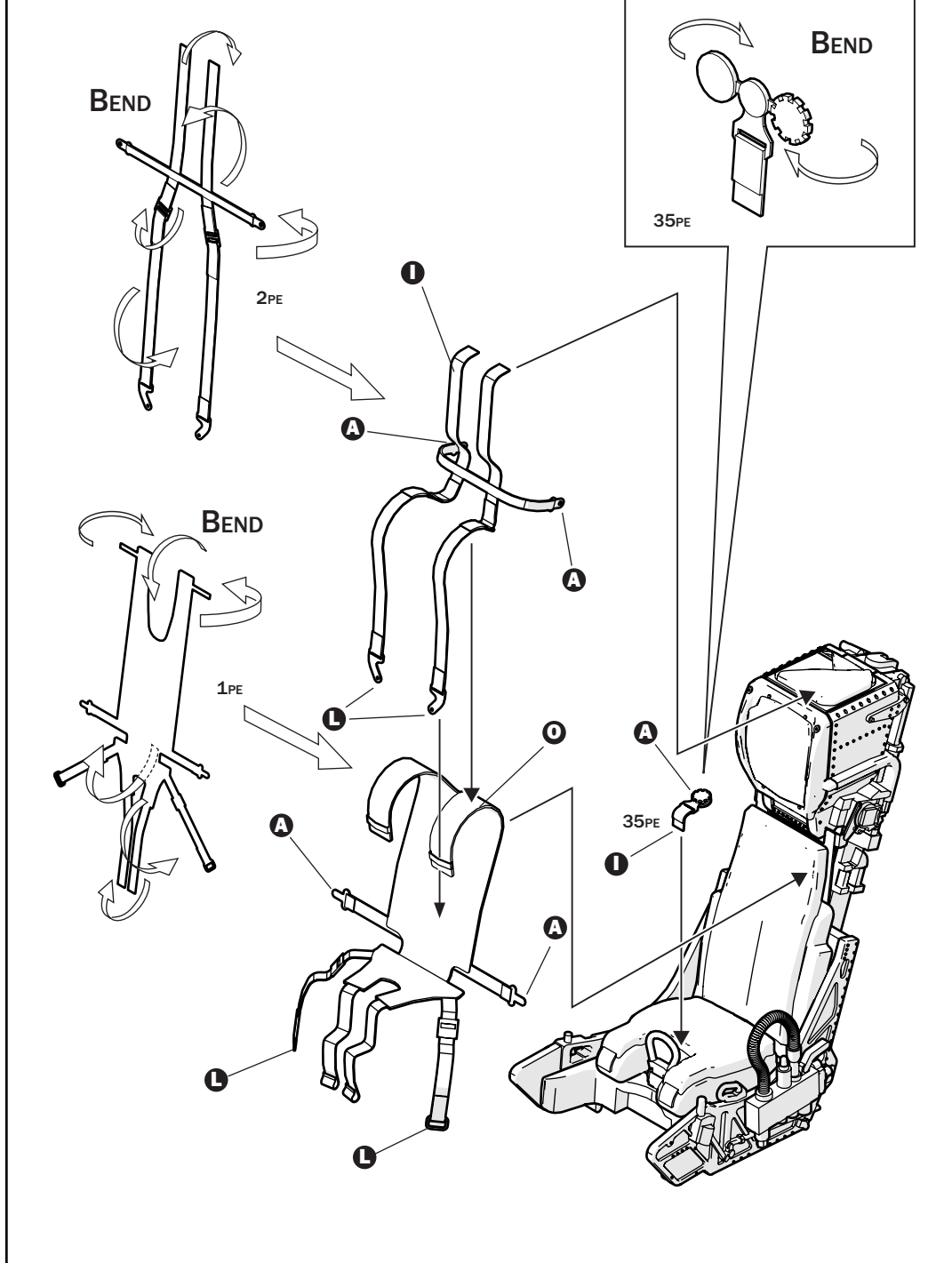
Italeri AcrylicPaint 4681 AP

**CHOOSE VERSION (A-B-C-D) BEFORE ASSEMBLY**

**1** 2x

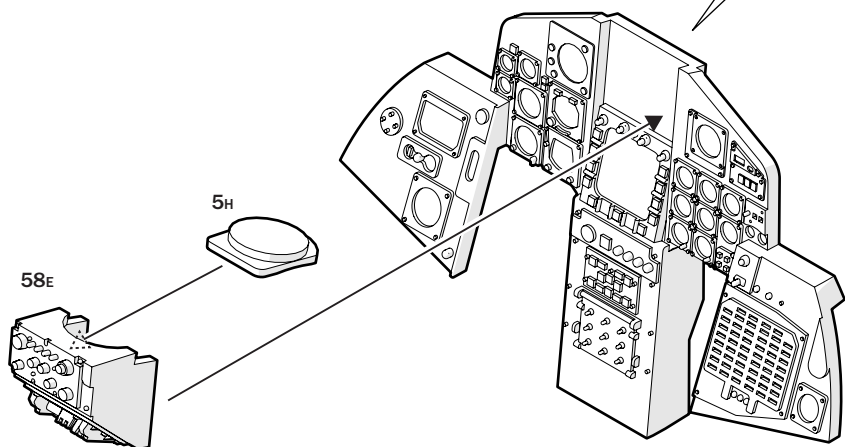
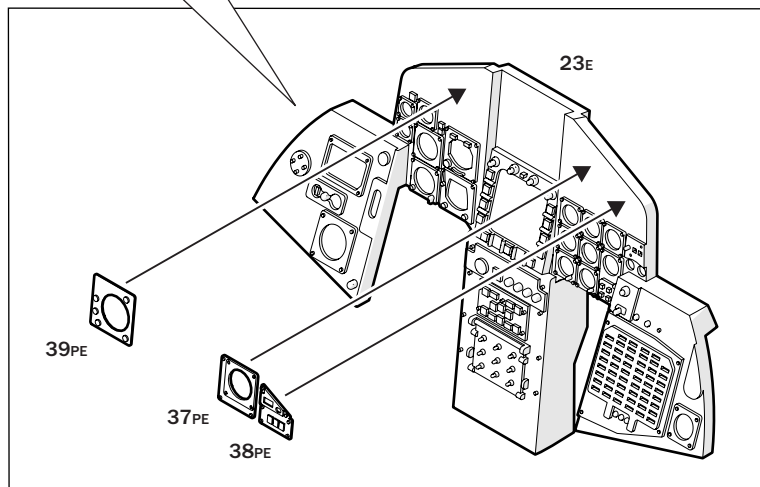
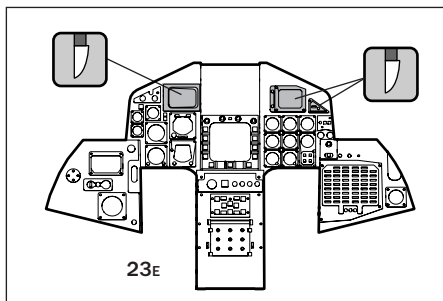


**2** 2x



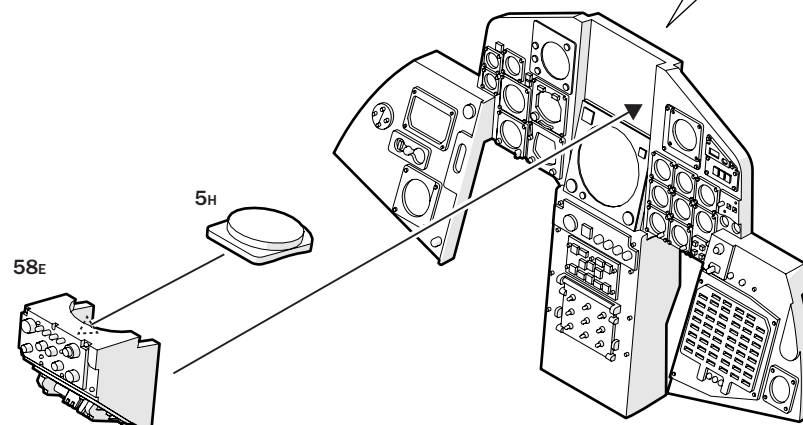
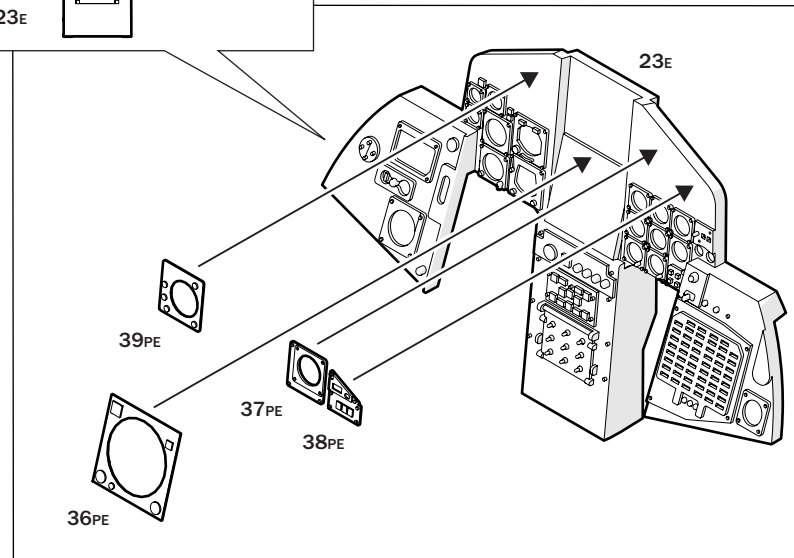
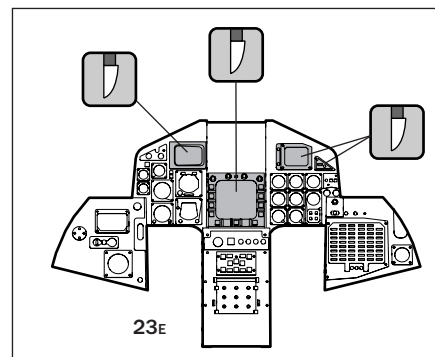
3

A1 VERSION A

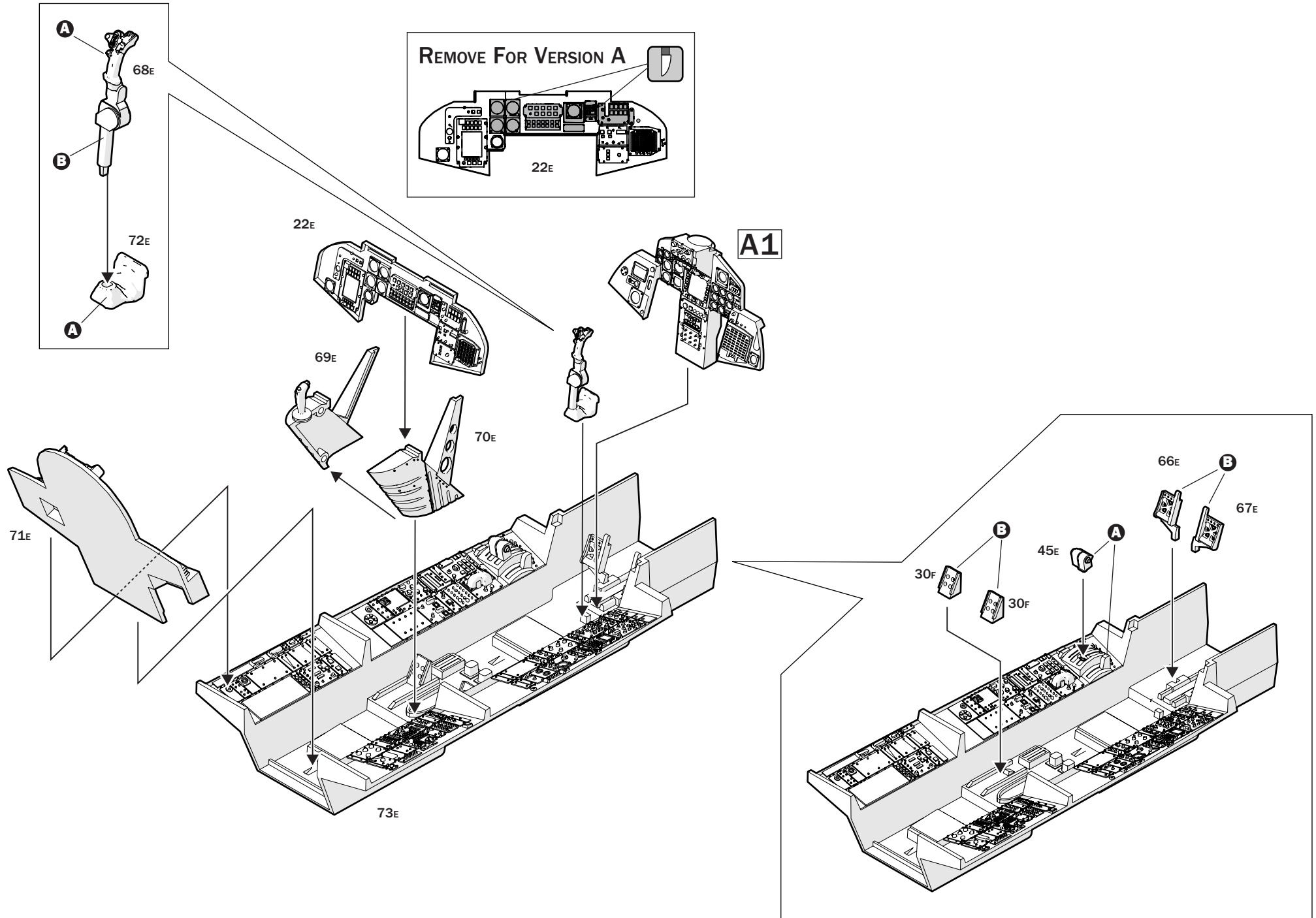


4

A2 VERSIONS B-C-D

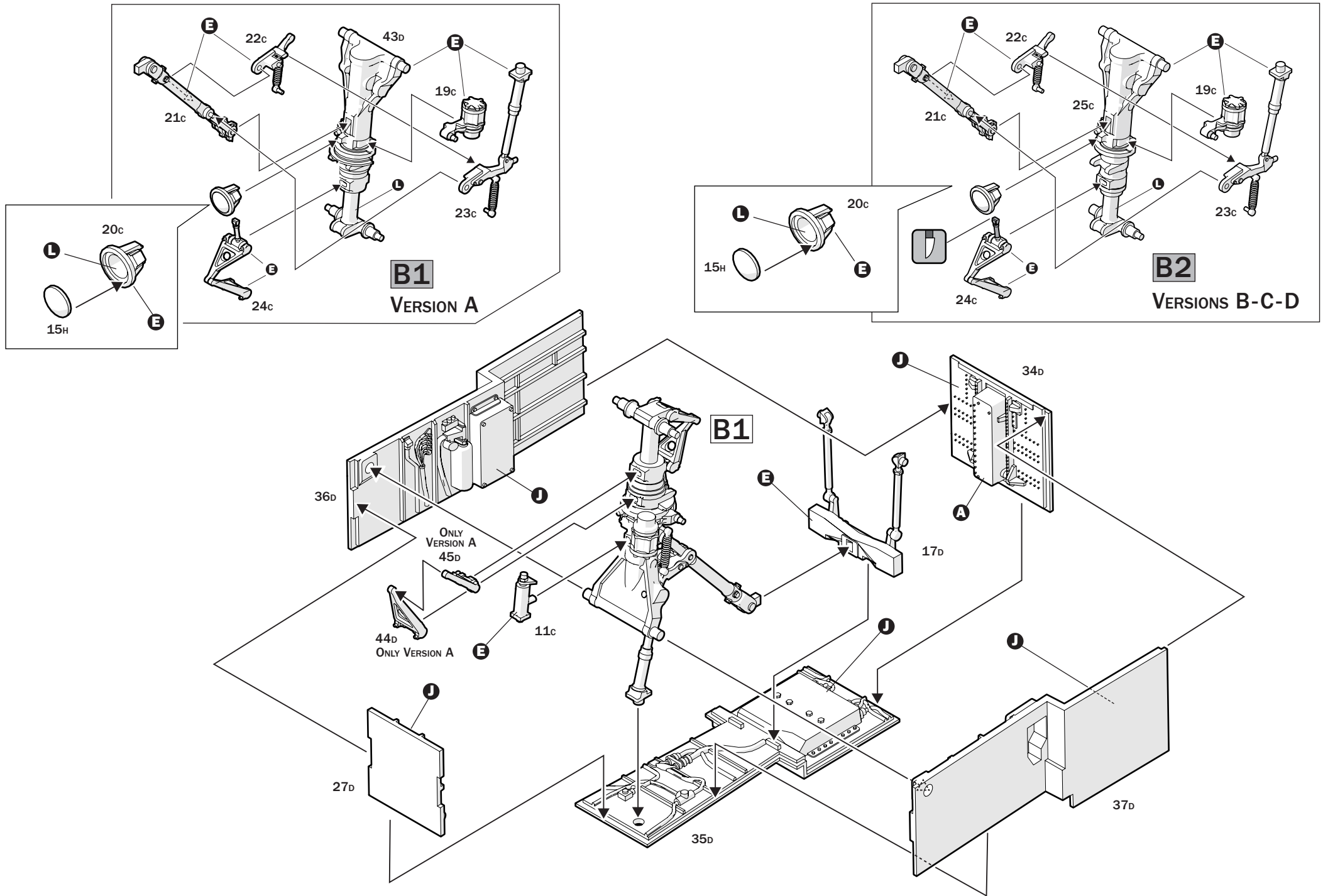


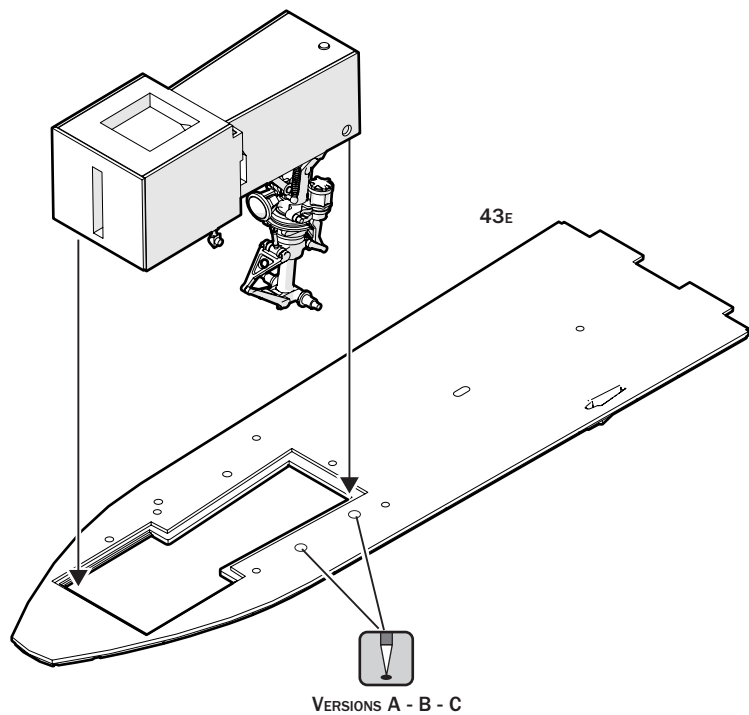
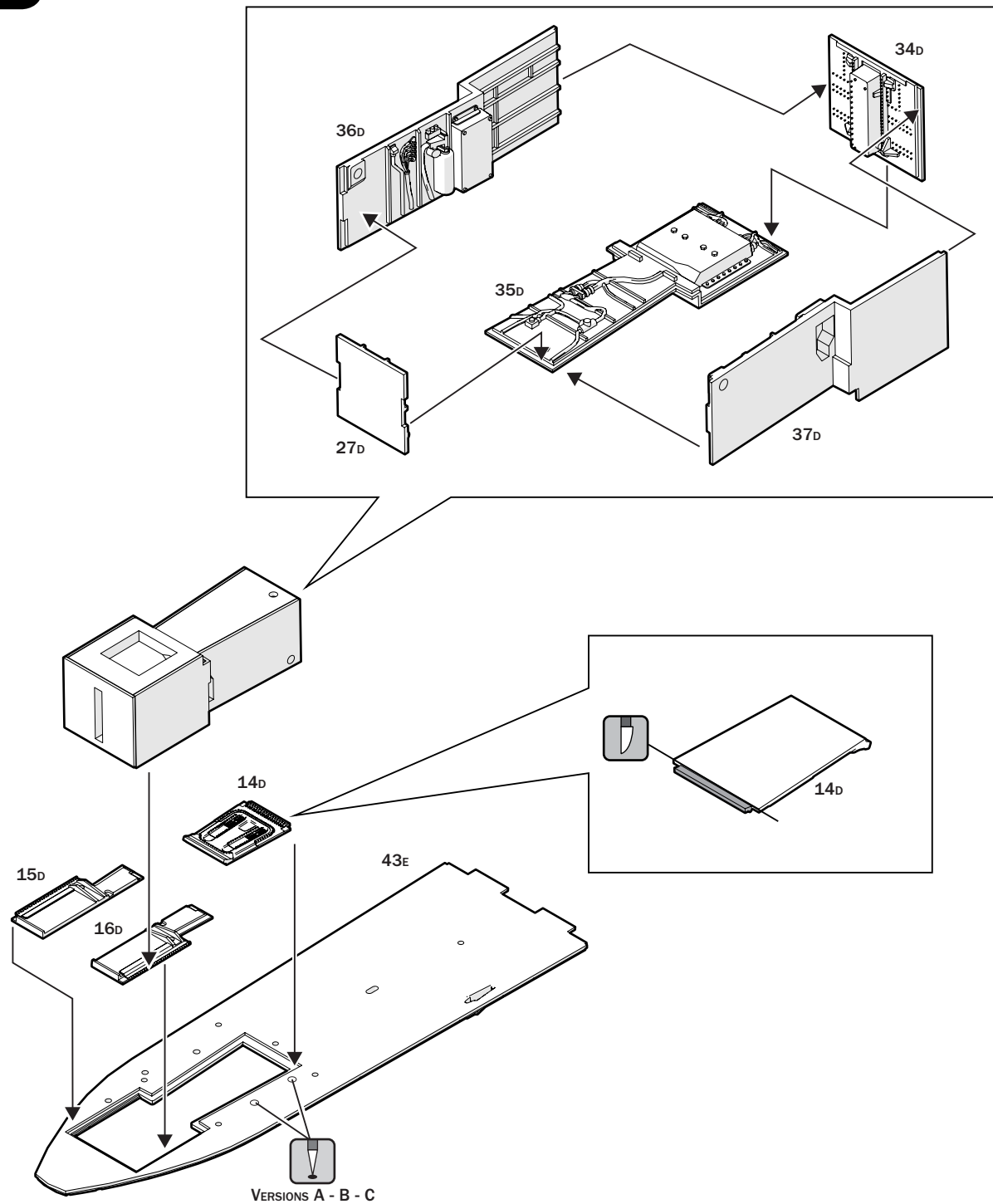
FOR COCKPIT PAINTING AND DECALS POSITIONING SEE THE PAINTING GUIDE (PAG.8)

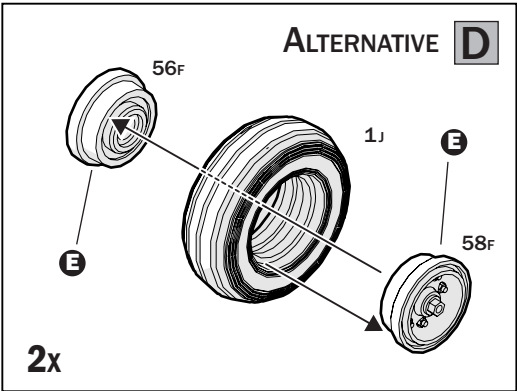
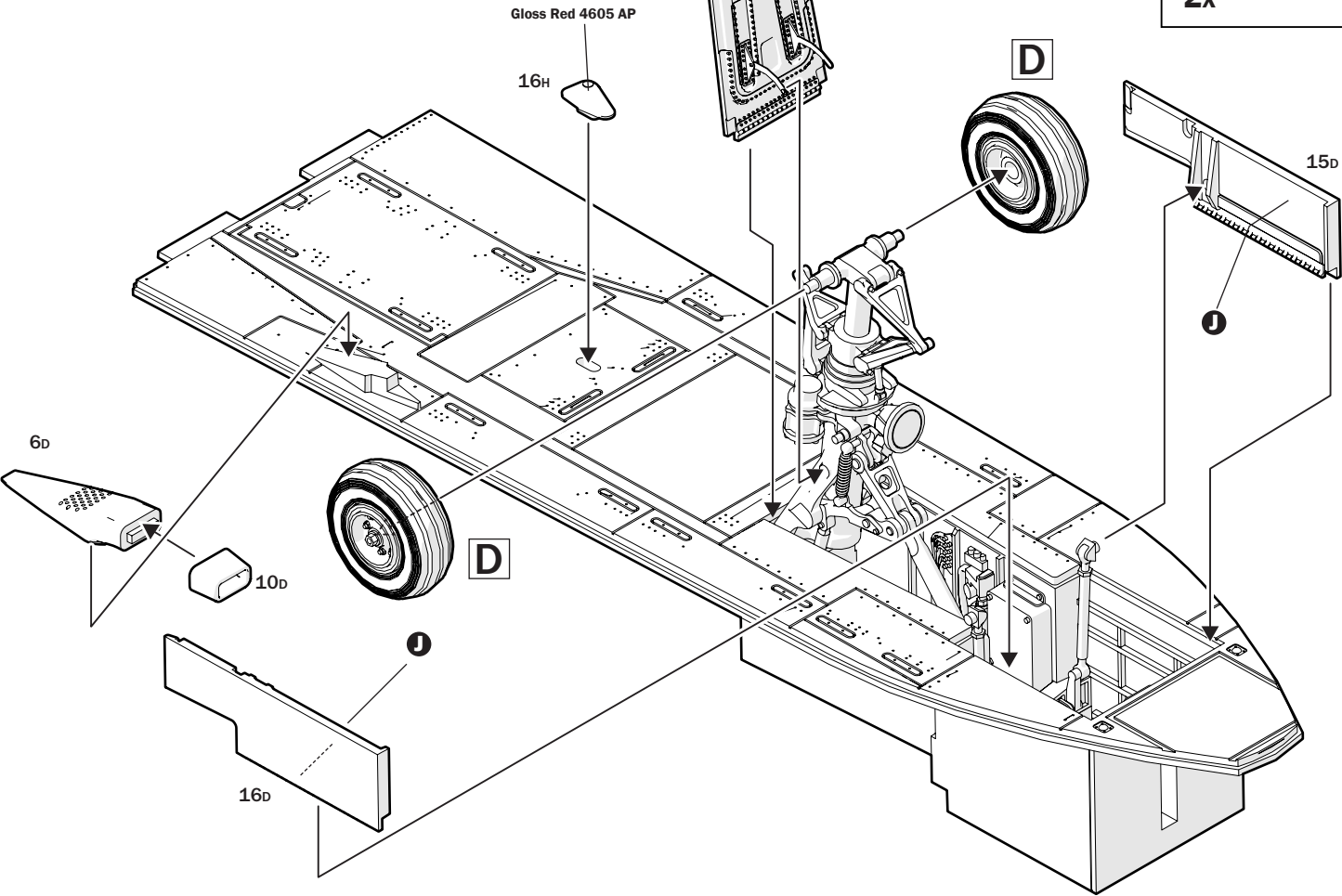
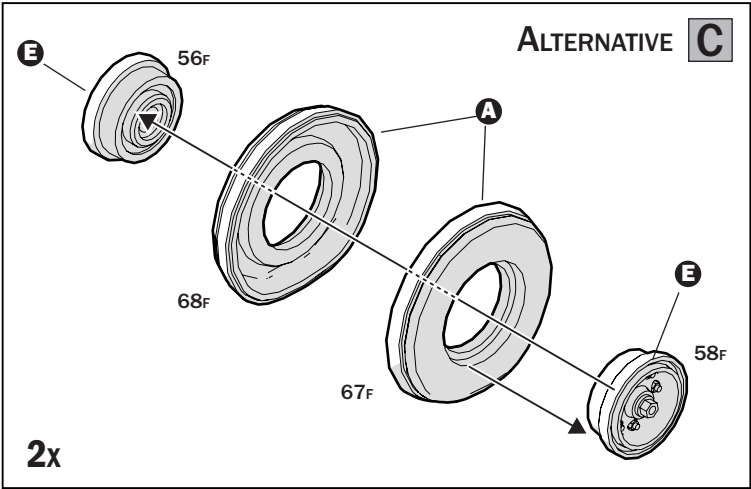
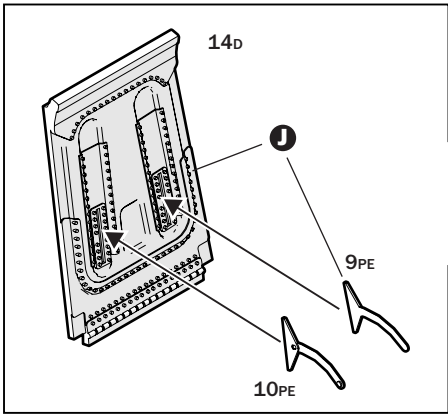


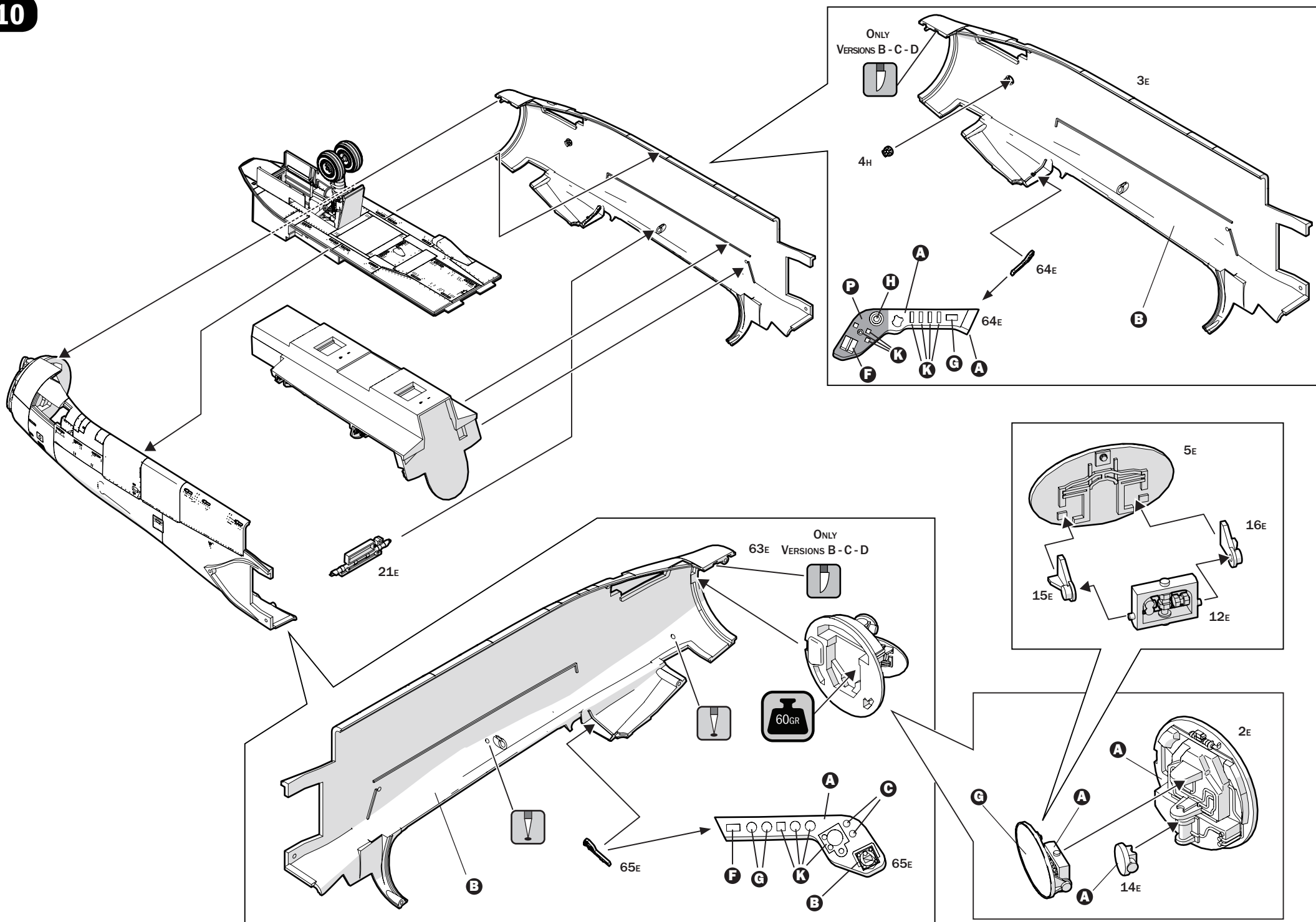


### OPENED FRONT LANDING GEAR CONFIGURATION

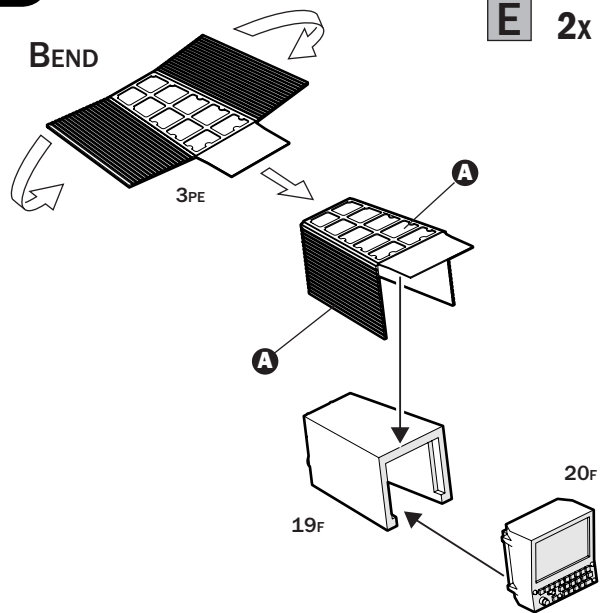


**7****OPENED FRONT LANDING GEAR CONFIGURATION****8****CLOSED FRONT LANDING GEAR CONFIGURATION**

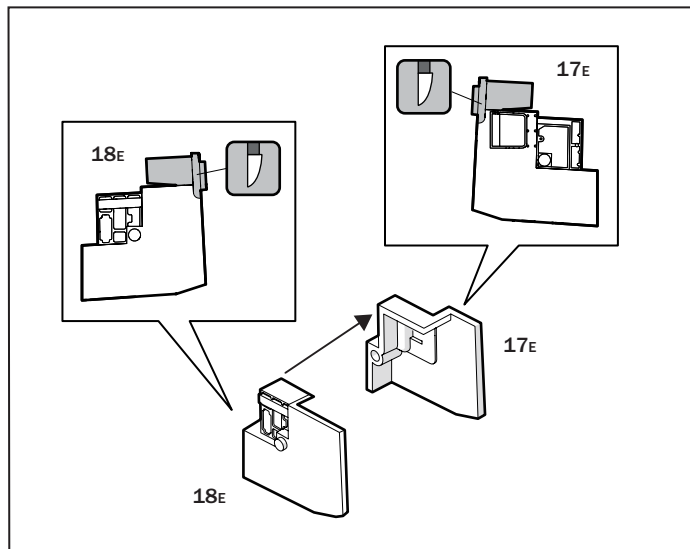




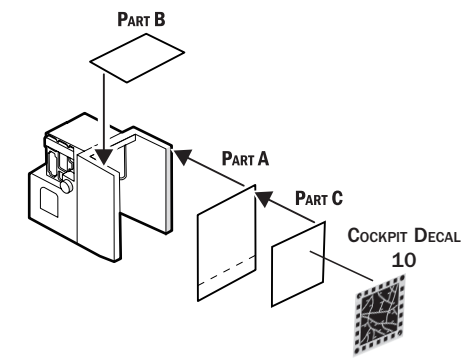
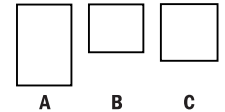
11



**F1** ALTERNATIVE VERSION A

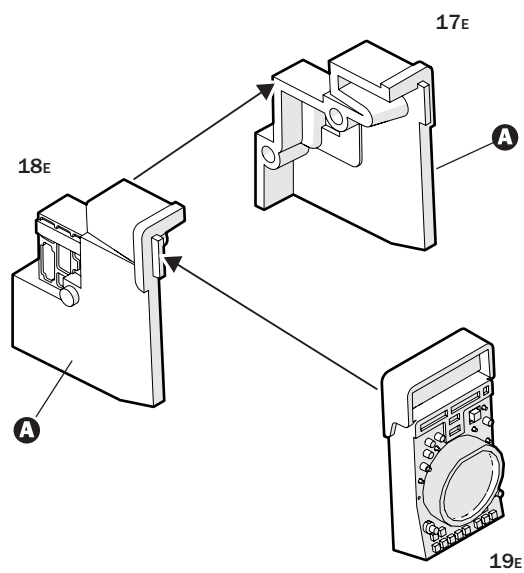


TEMPLATES FOR PLASTICARD PARTS

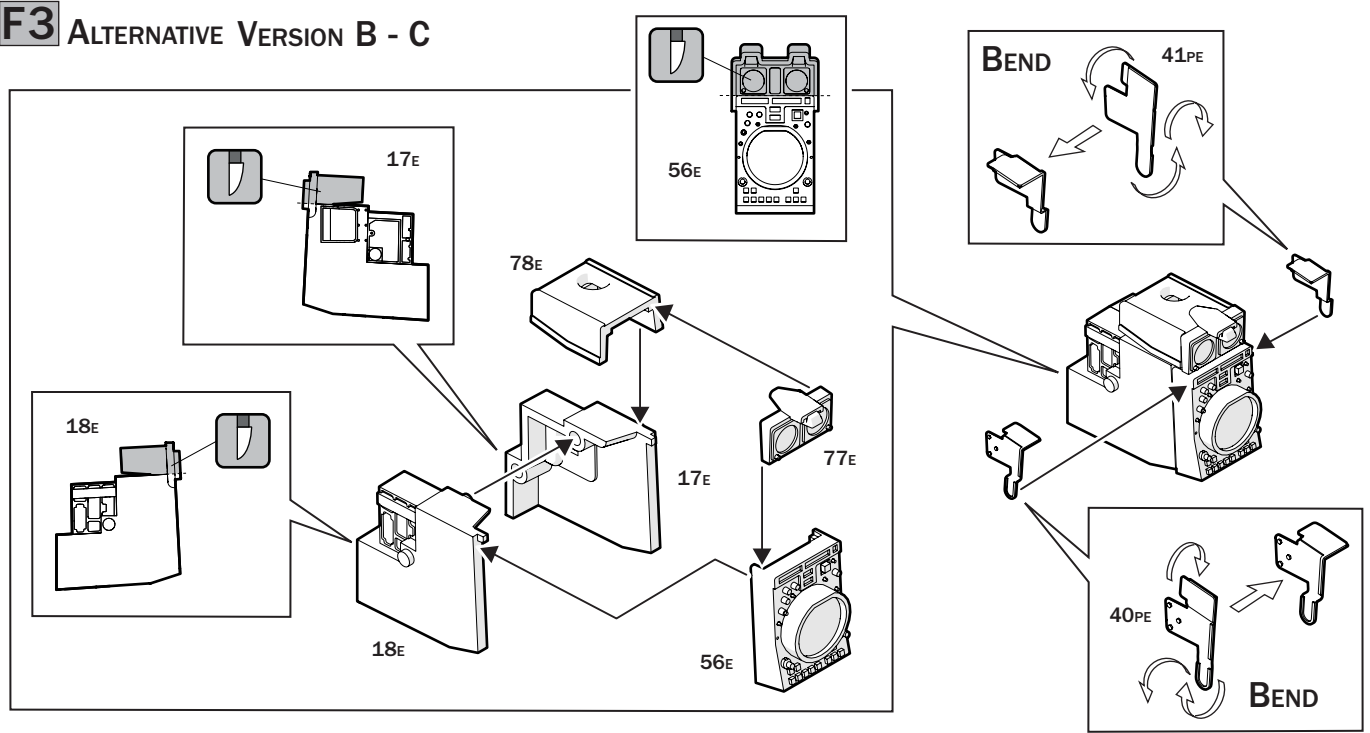


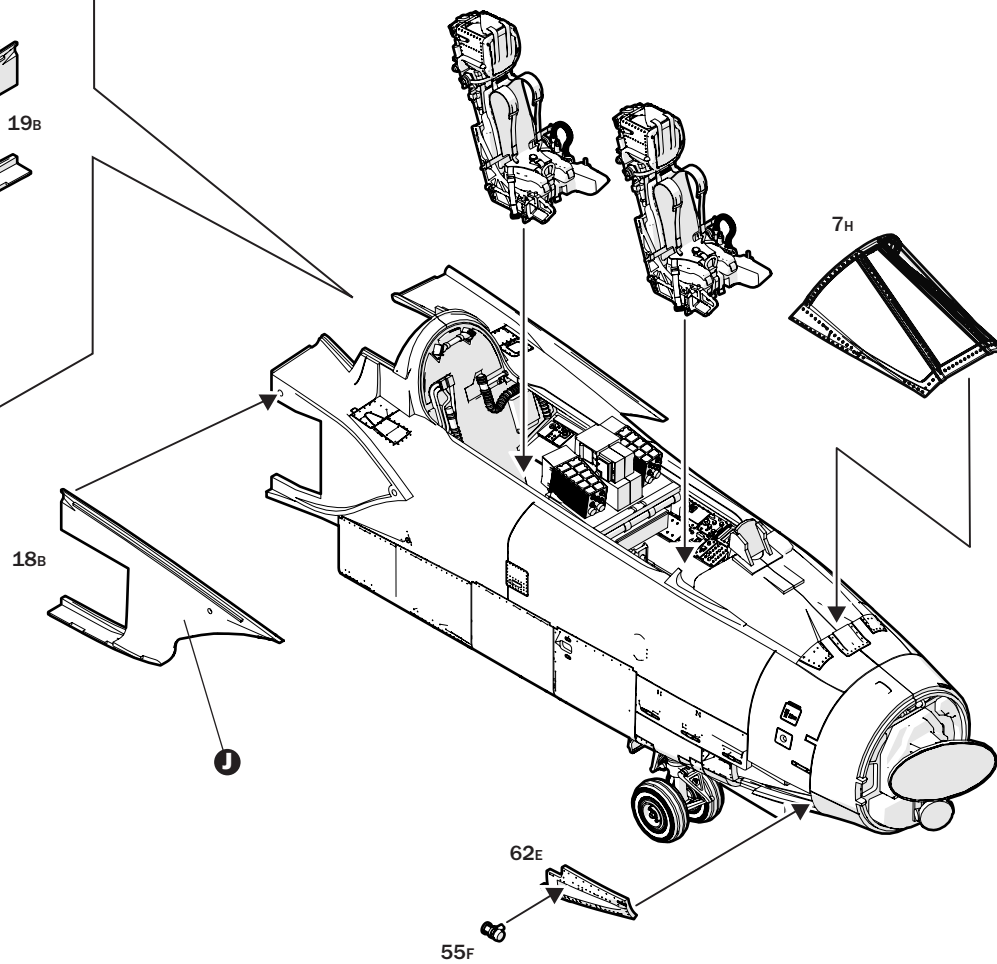
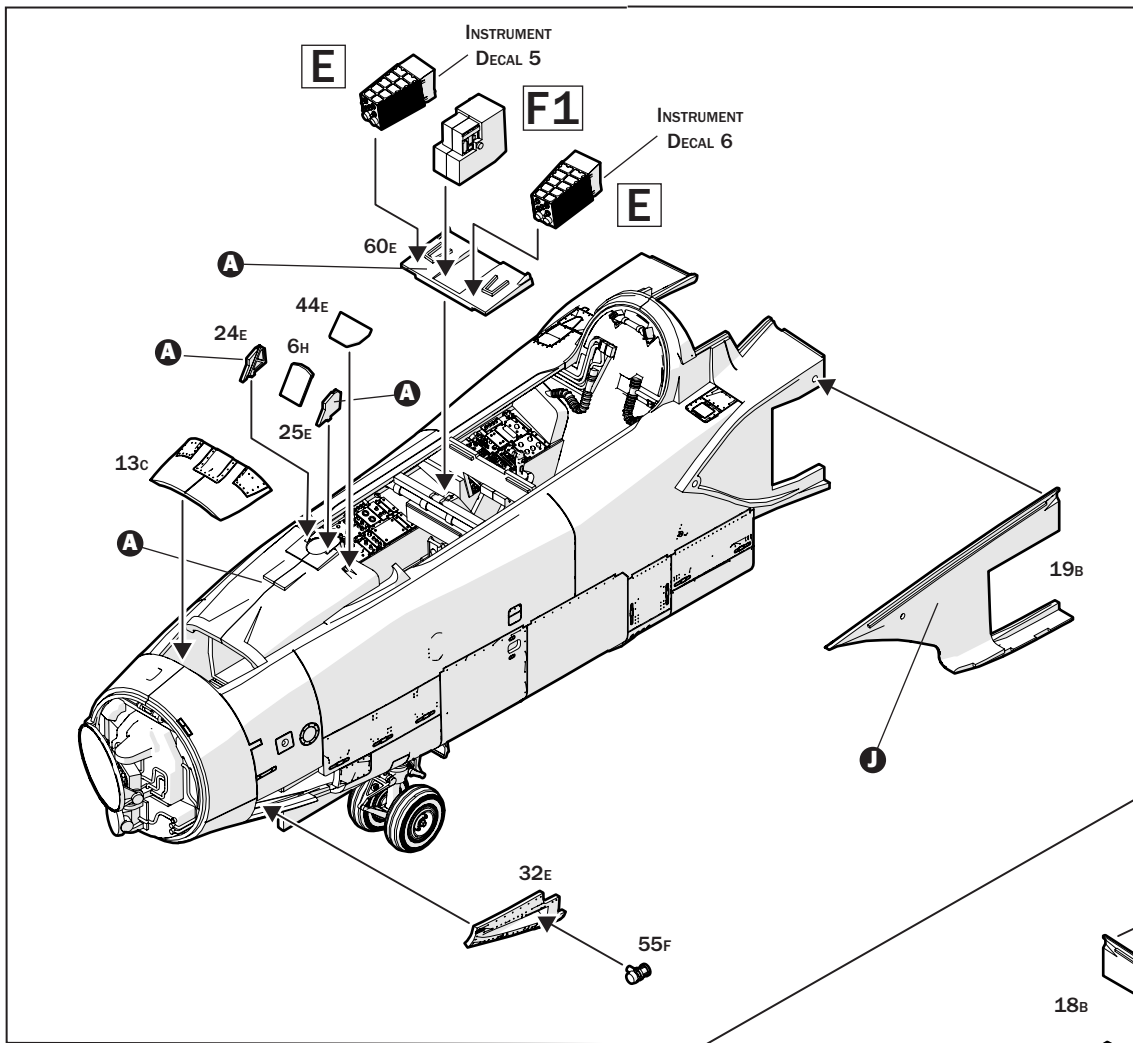
FOR PAINTING AND DECALS POSITIONING SEE THE PAINTING GUIDE

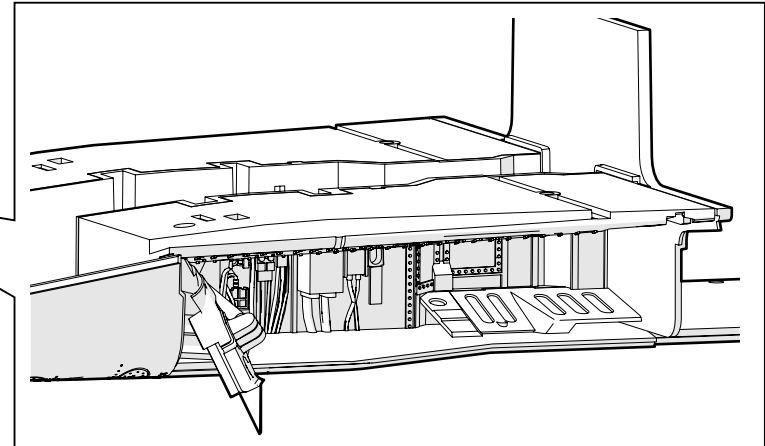
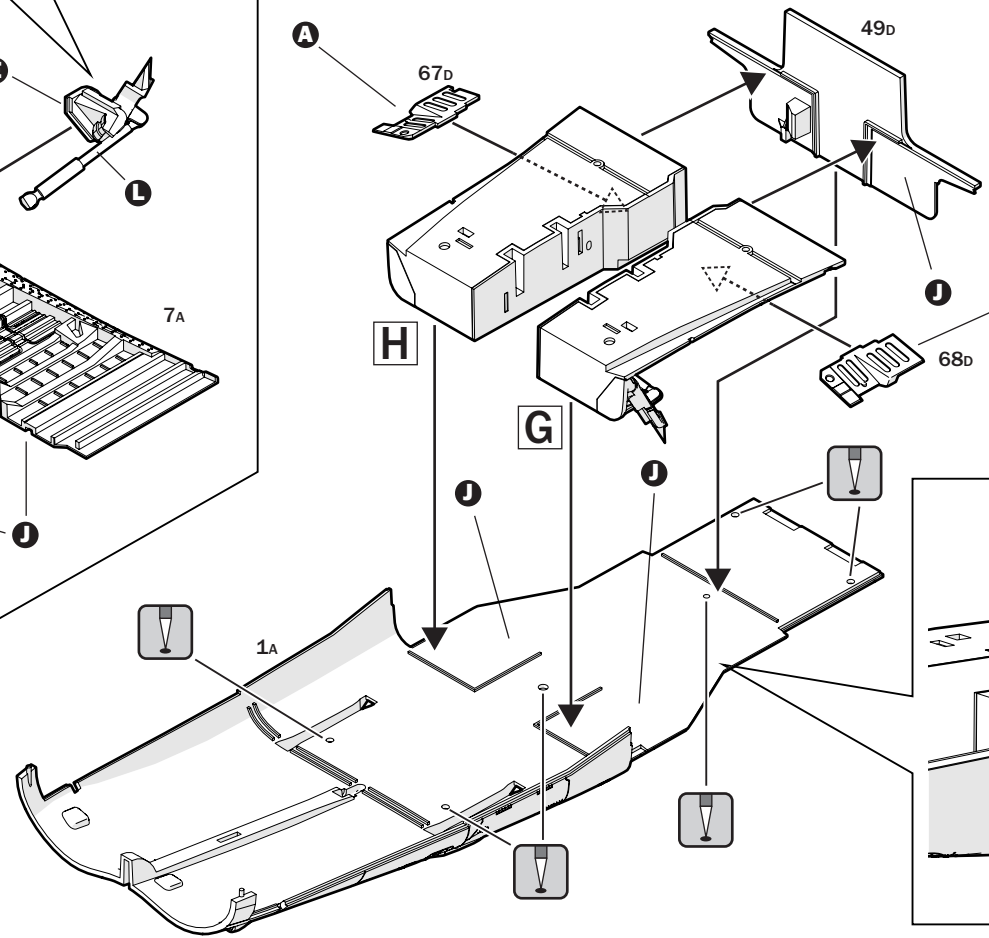
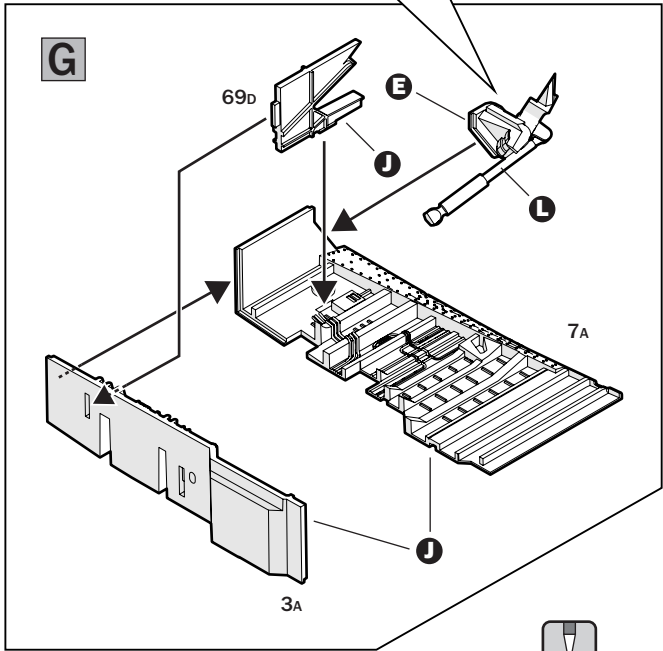
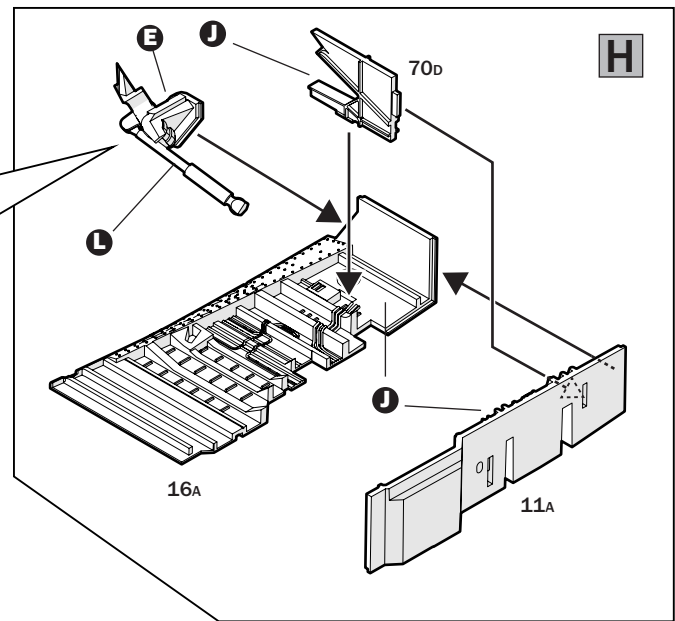
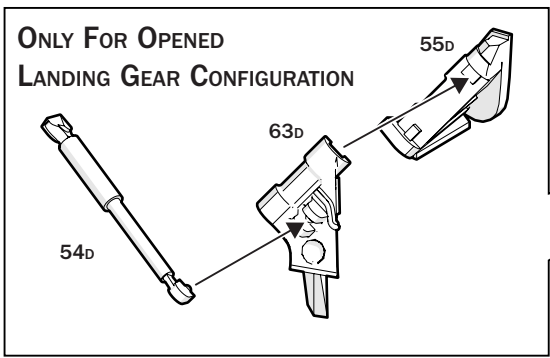
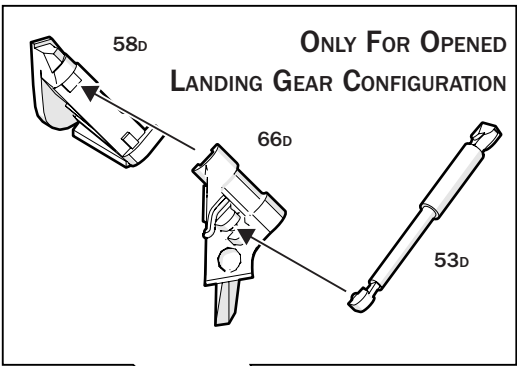
**F2** ALTERNATIVE VERSION D



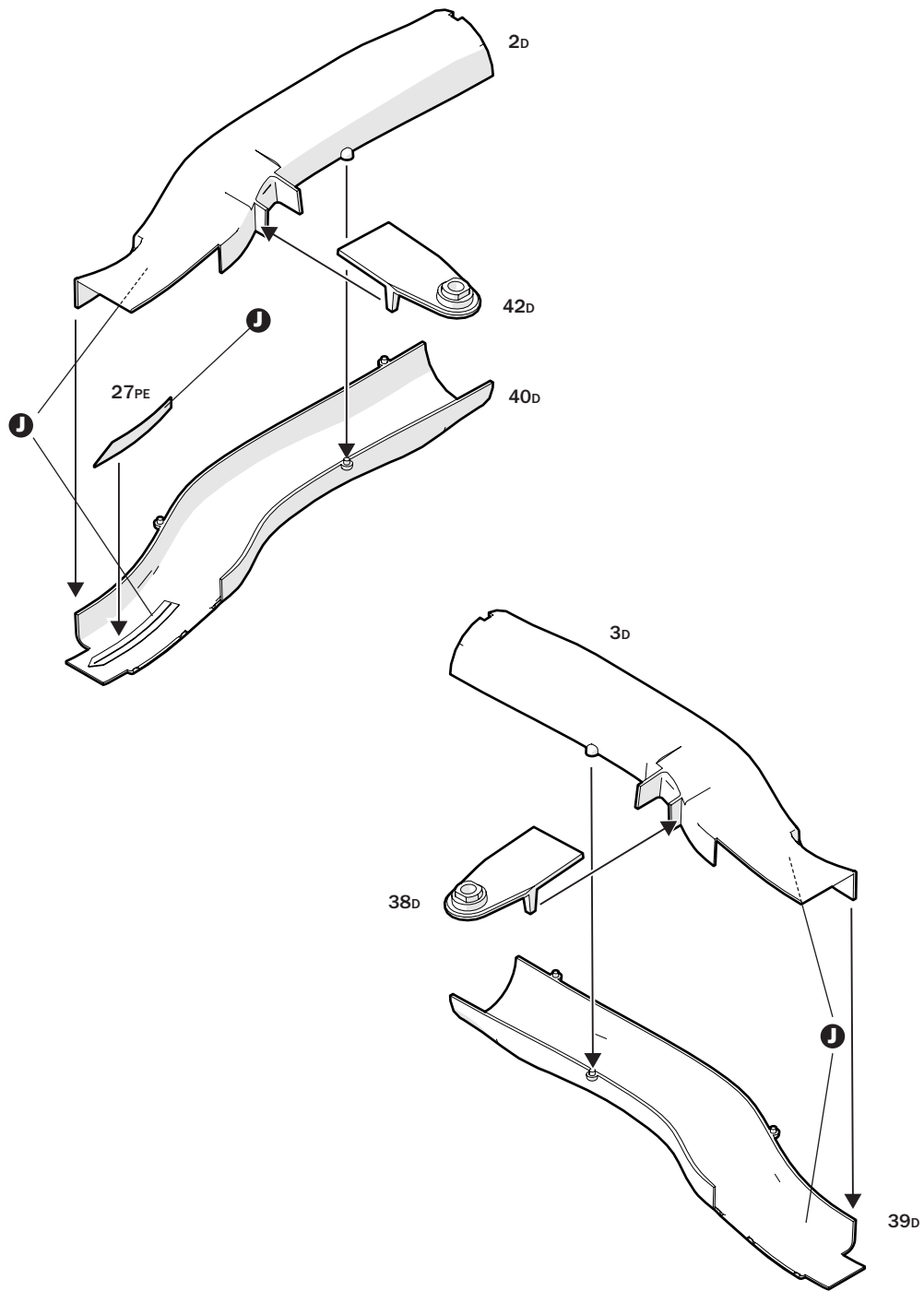
**F3** ALTERNATIVE VERSION B - C



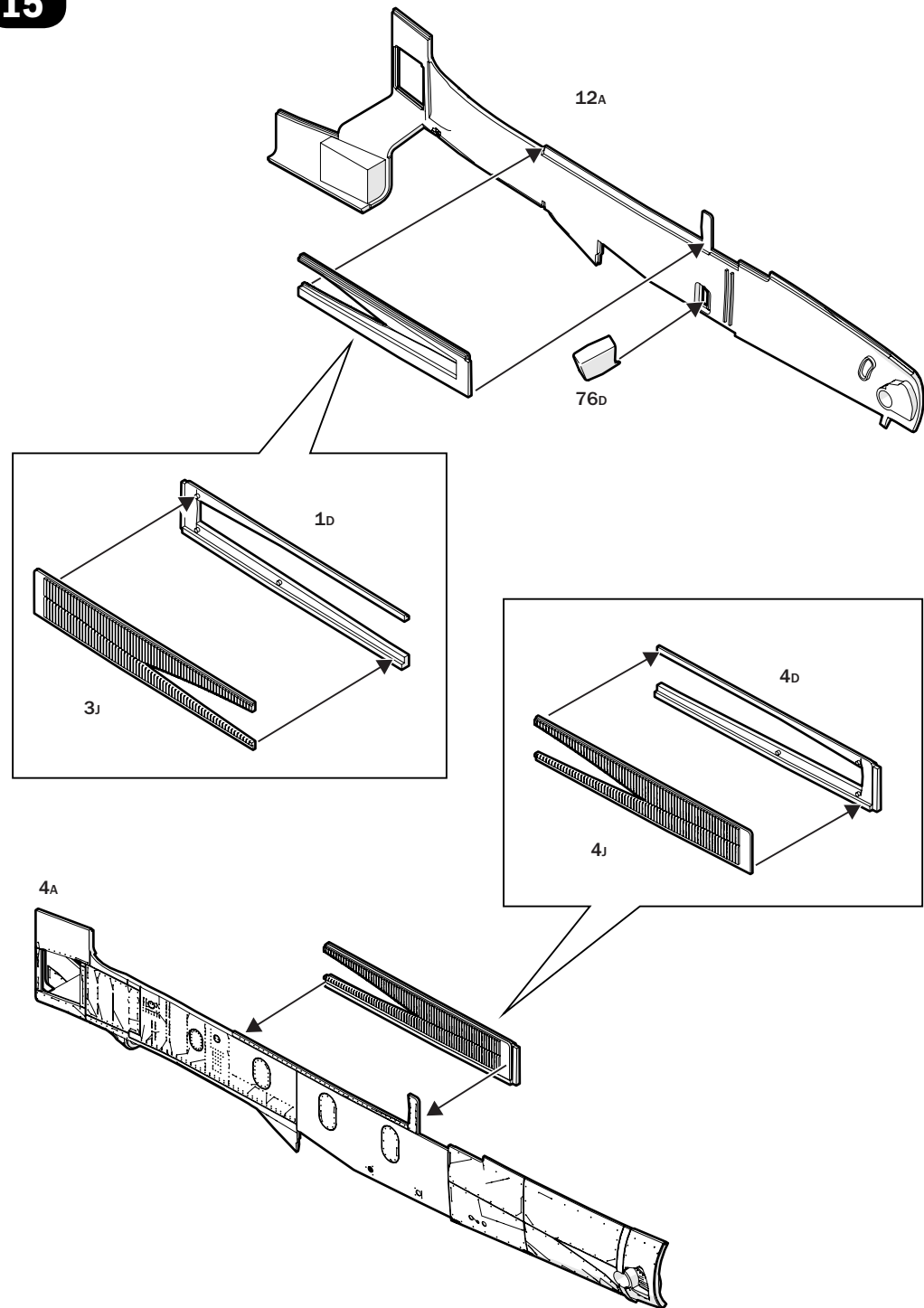




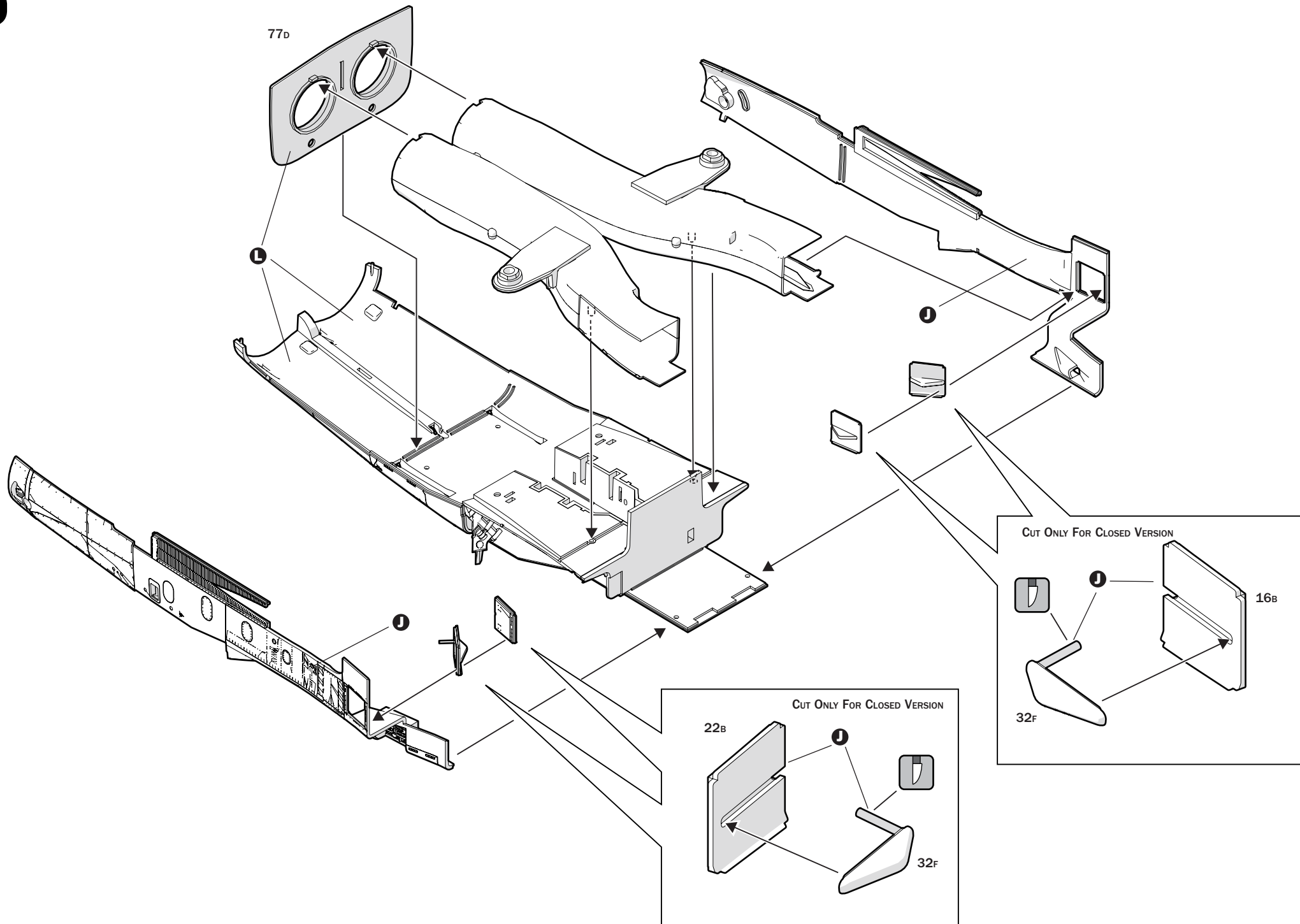
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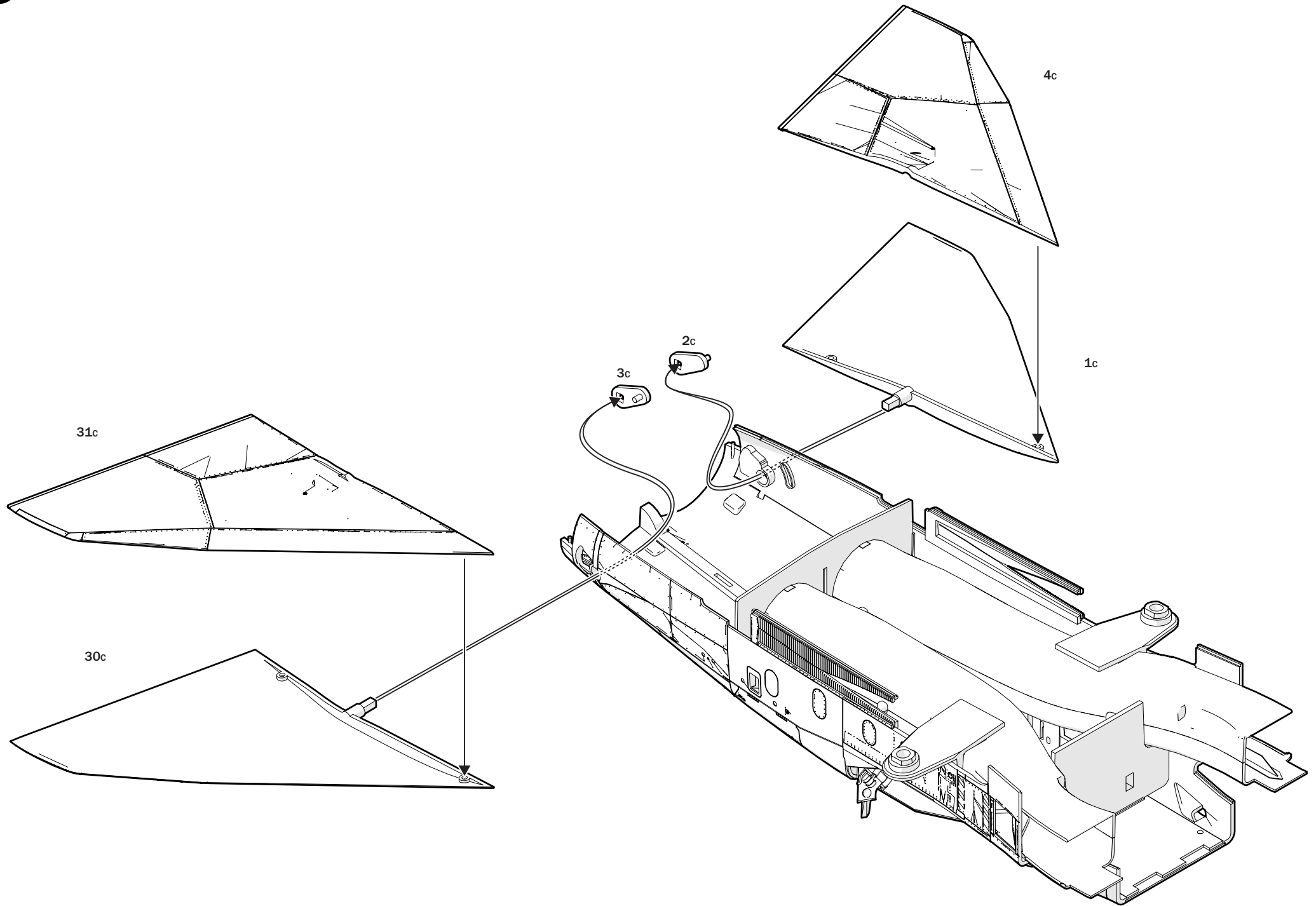


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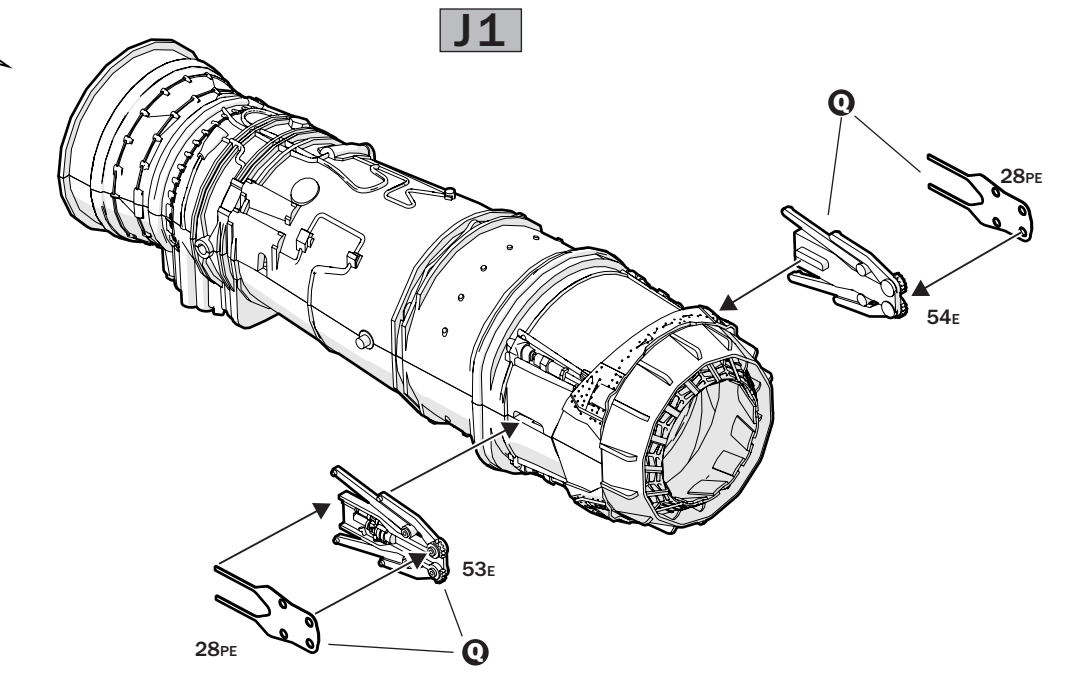
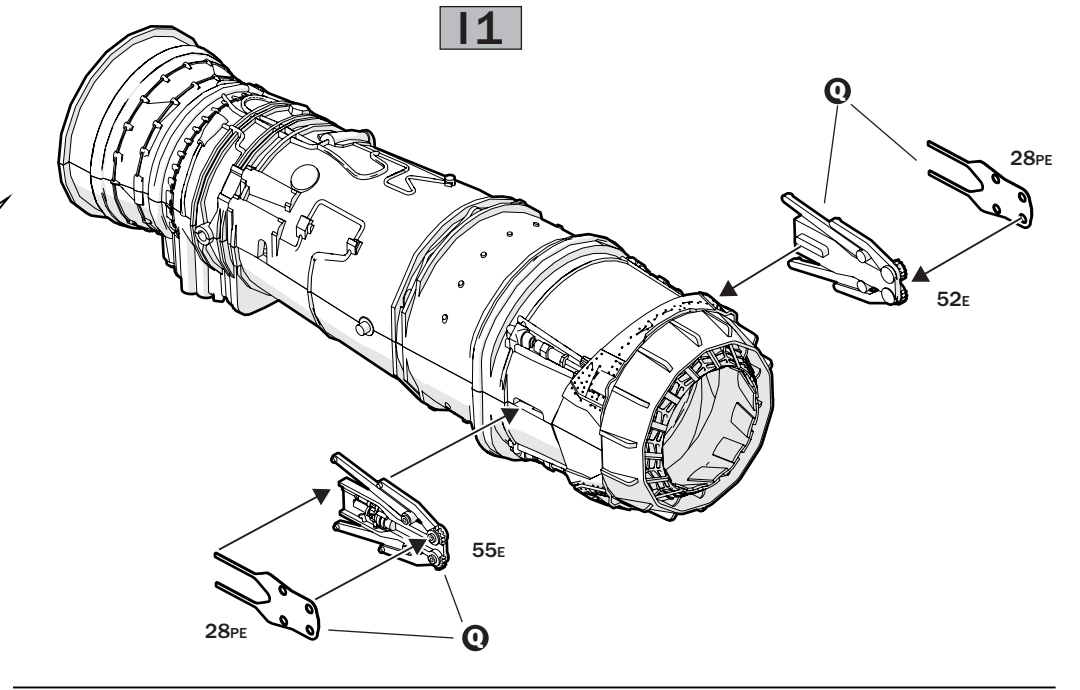
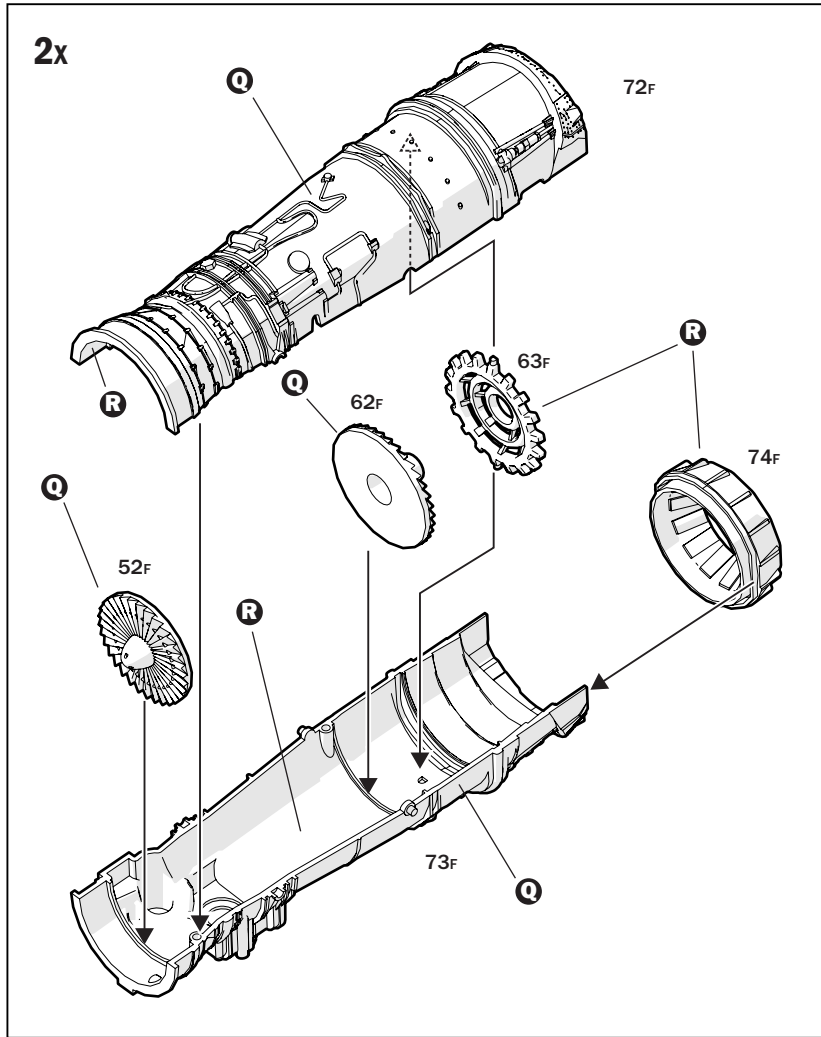




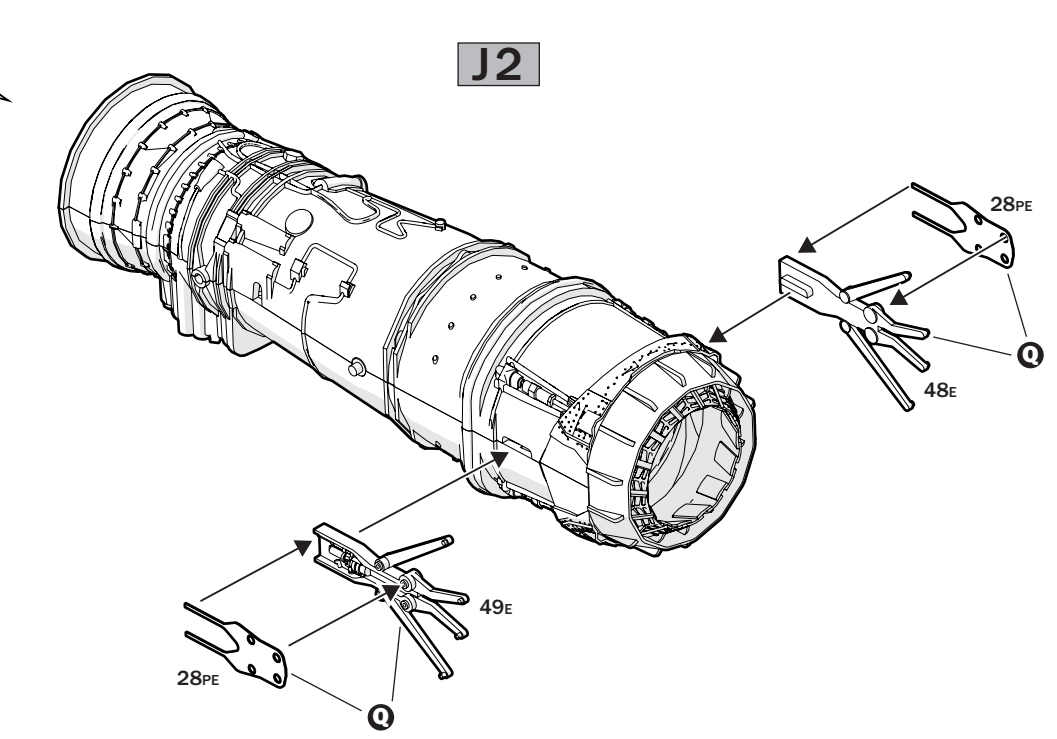
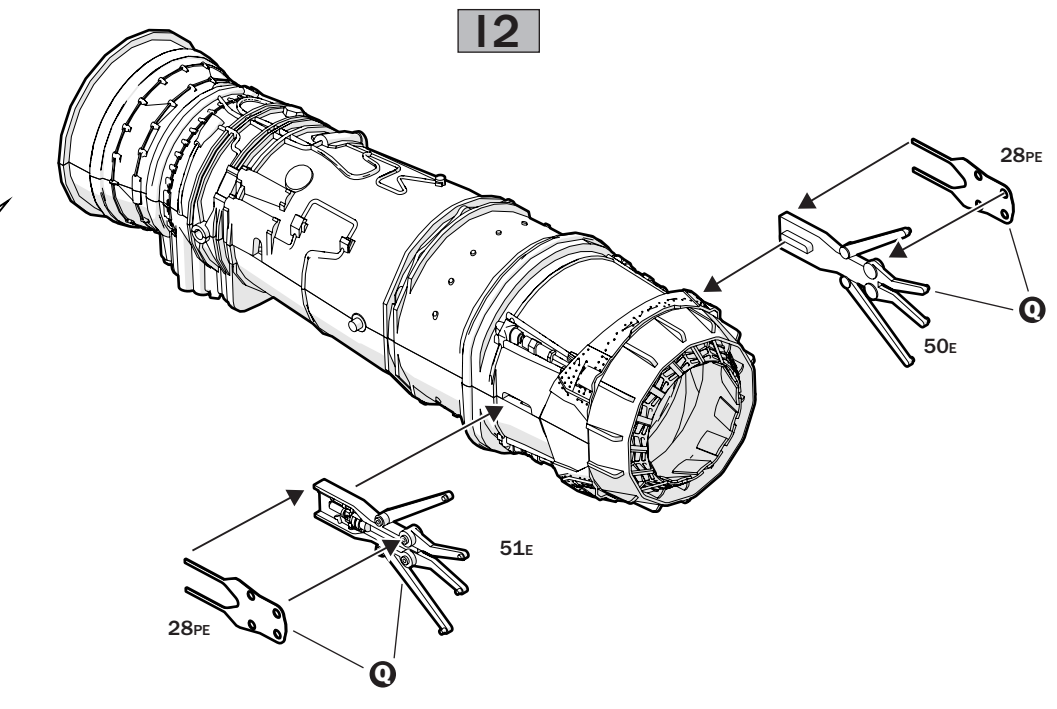
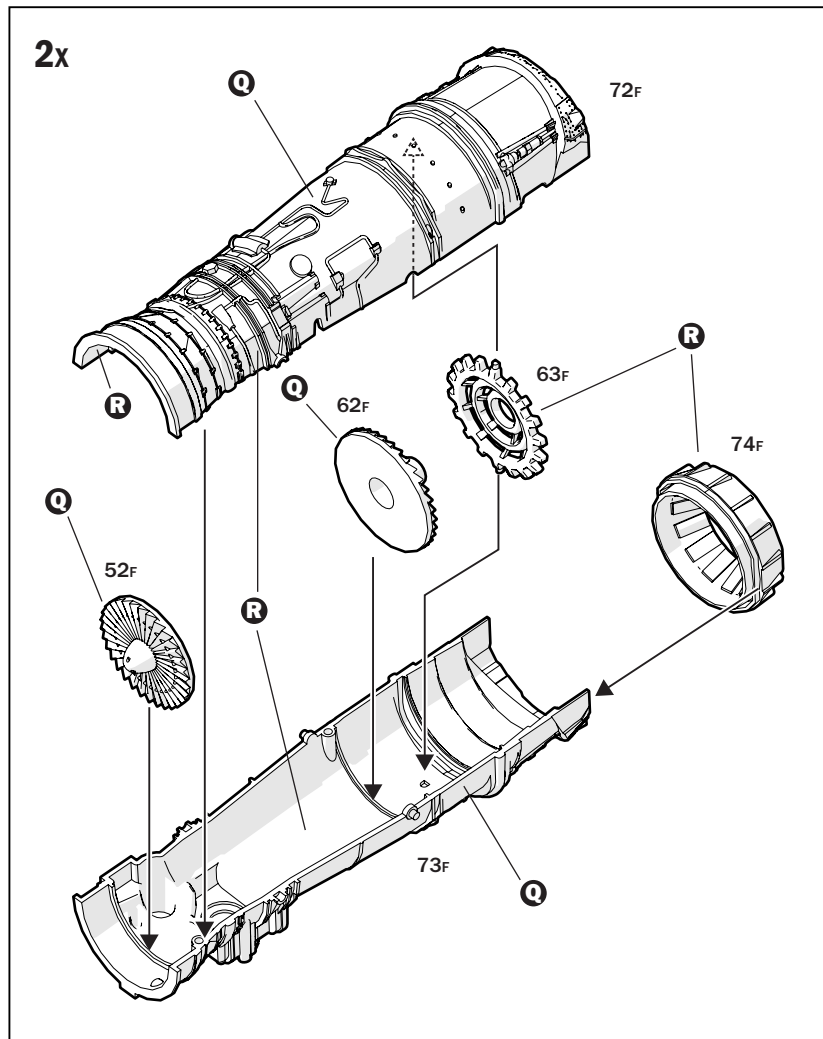


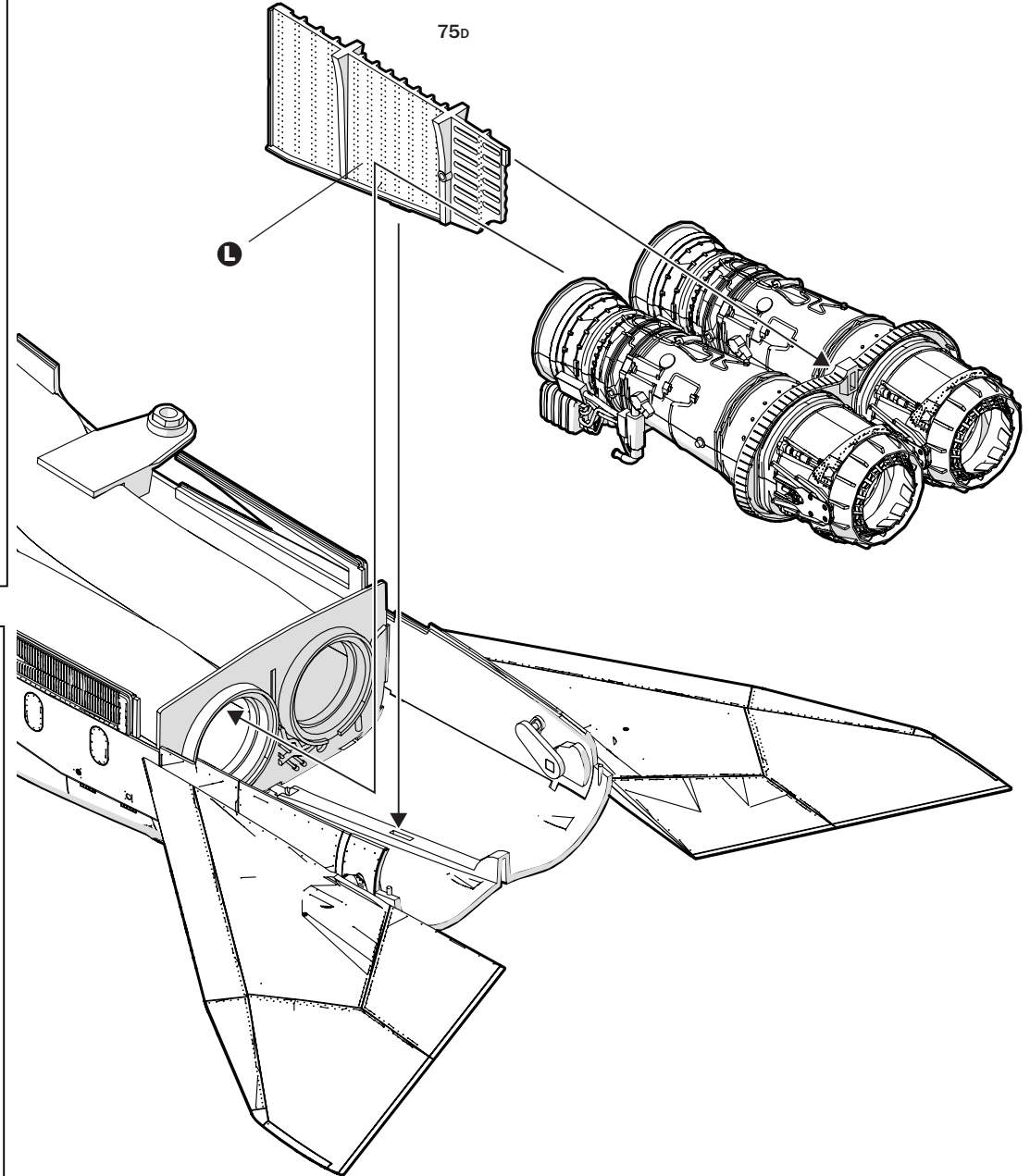
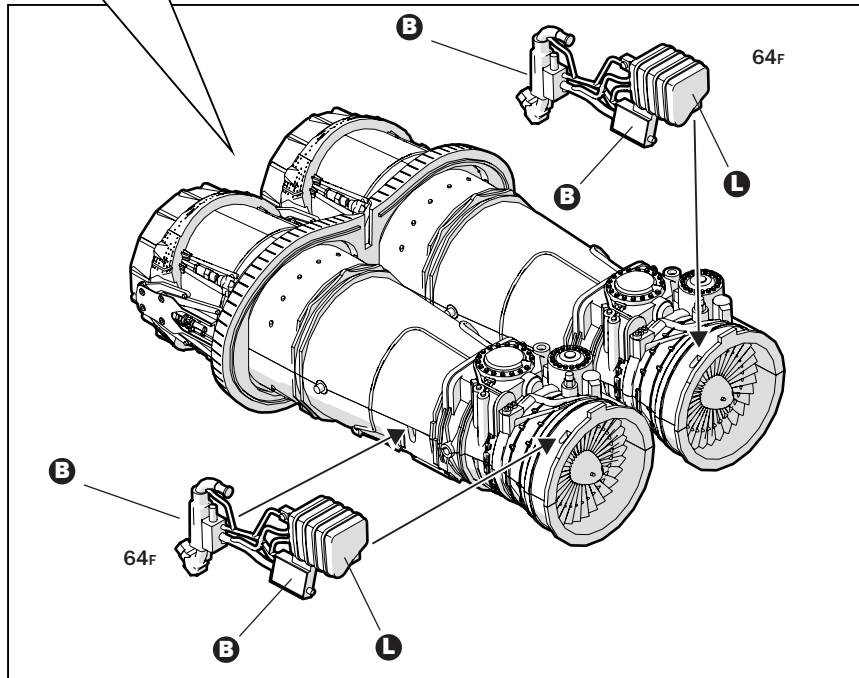
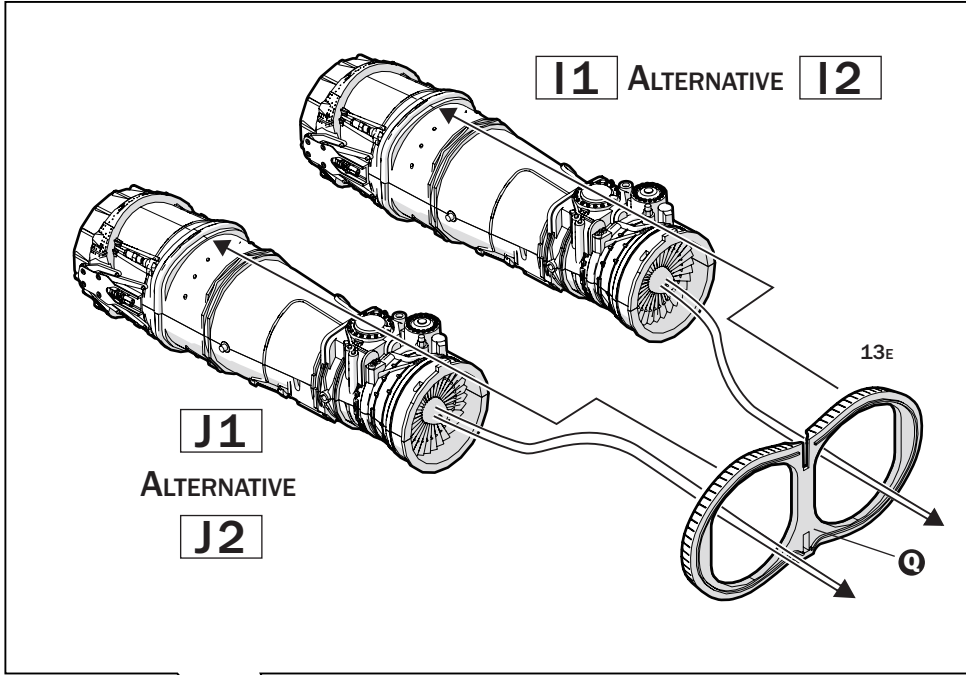


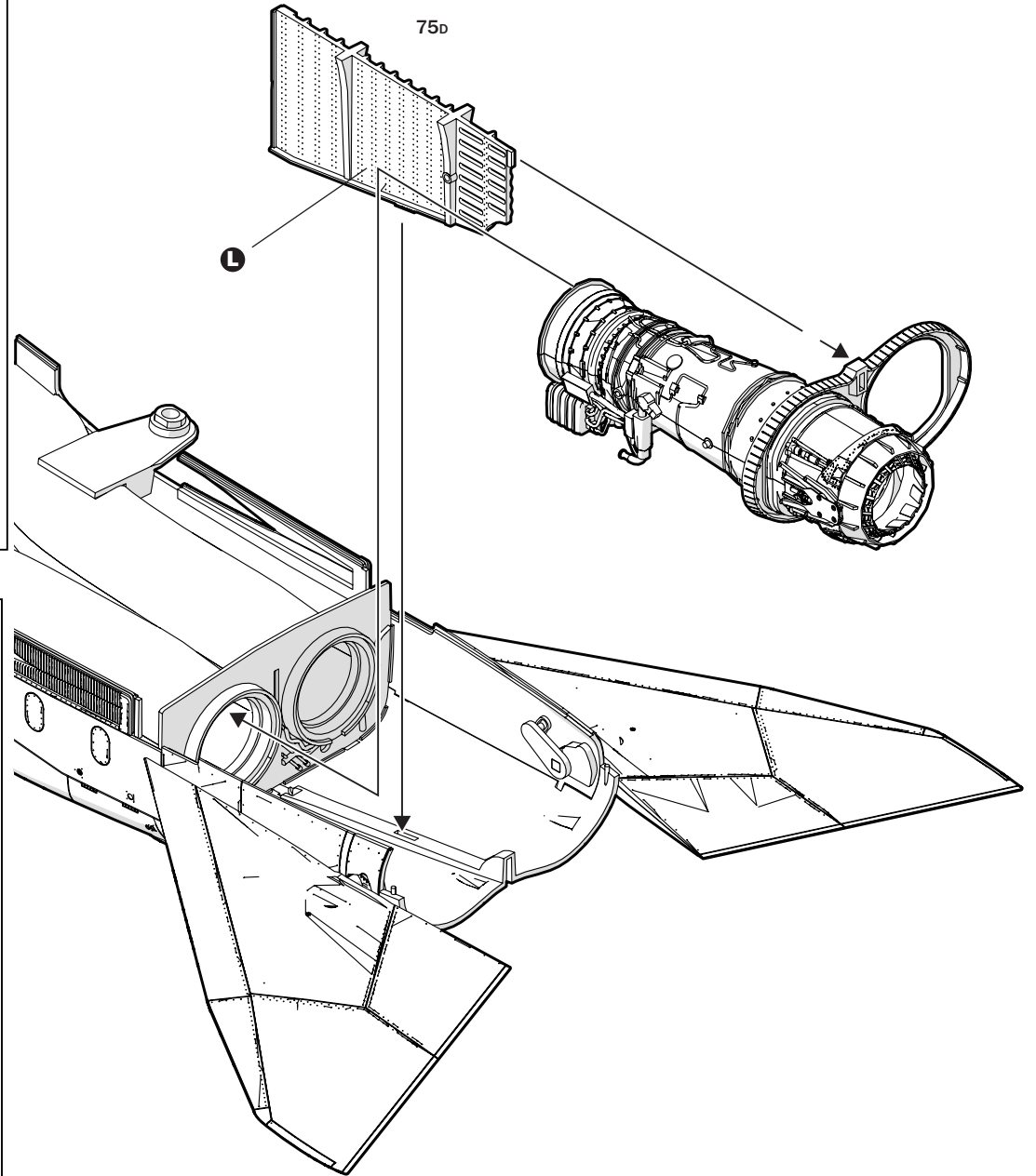
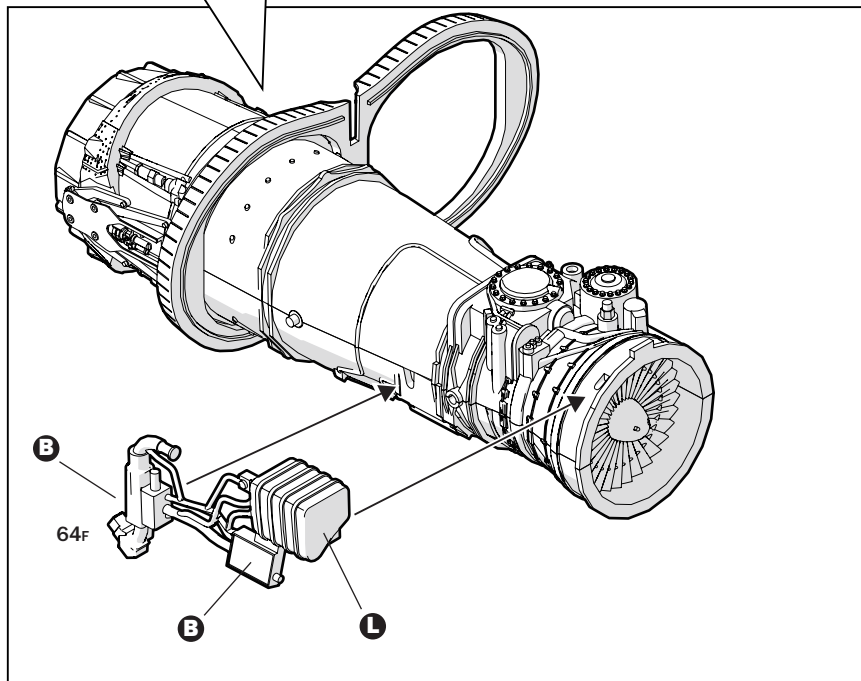
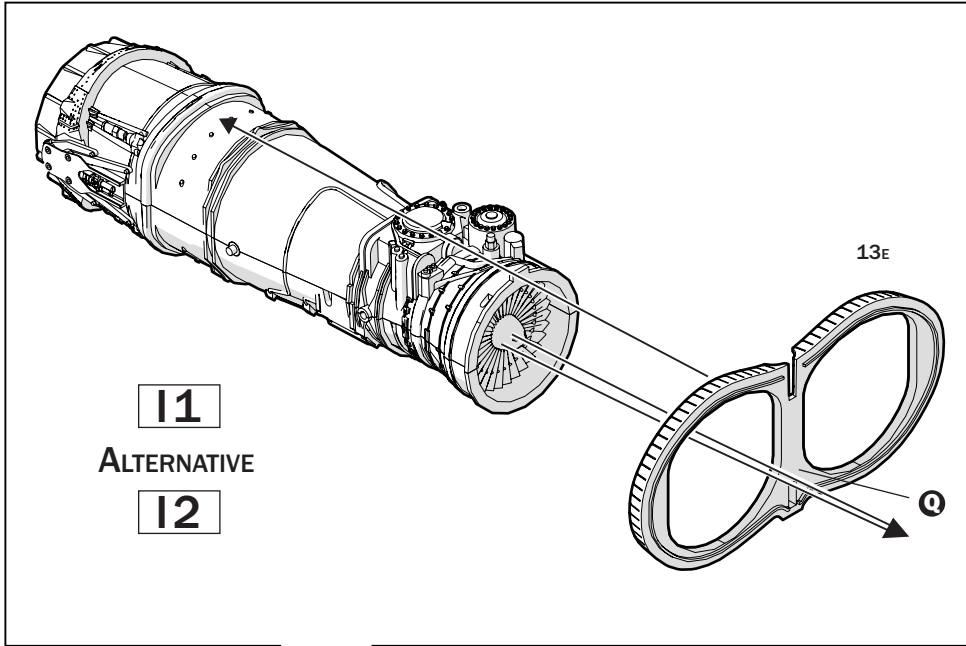
RETRACTED THRUST REVERSER CONFIGURATION



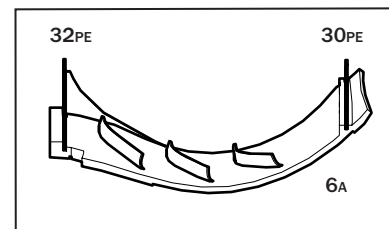
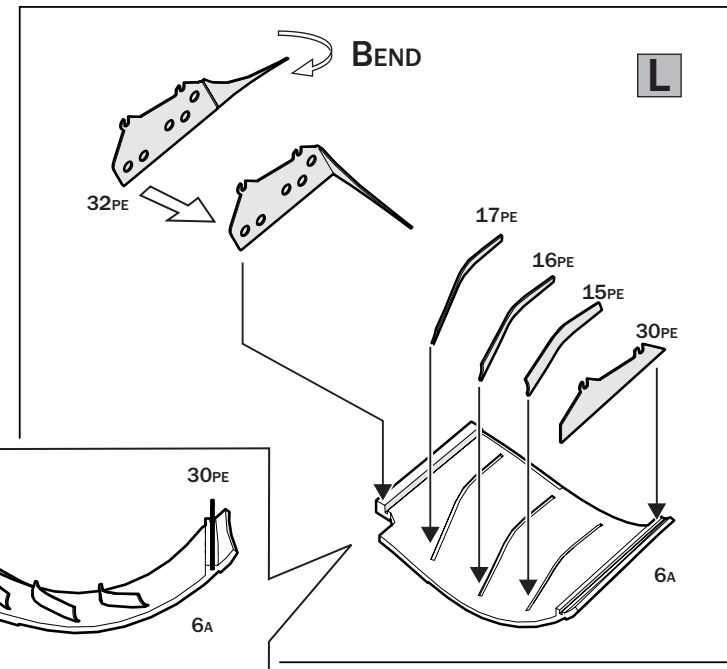
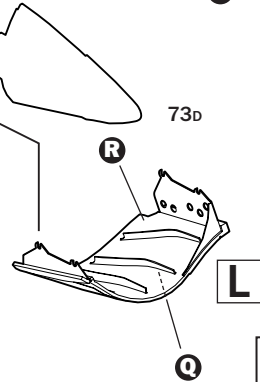
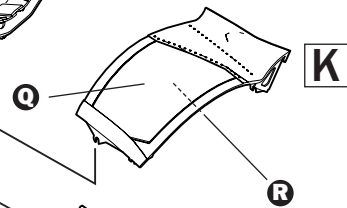
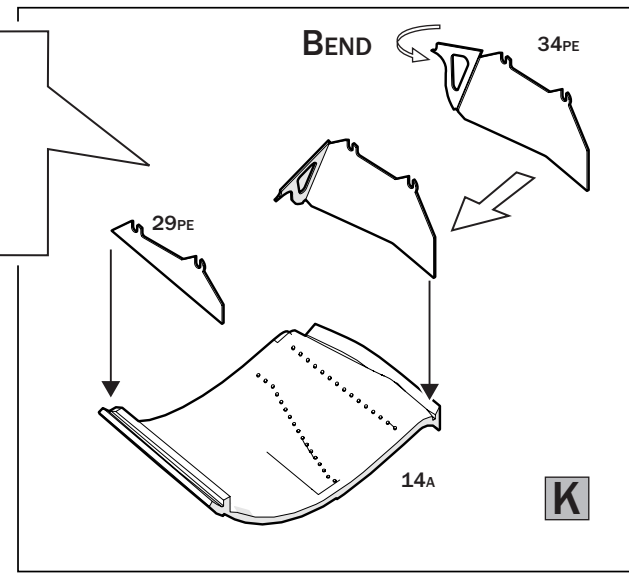
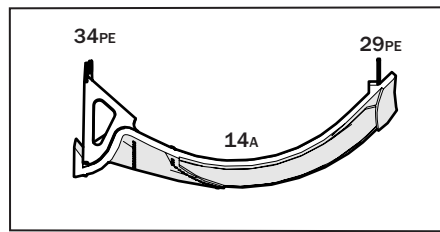
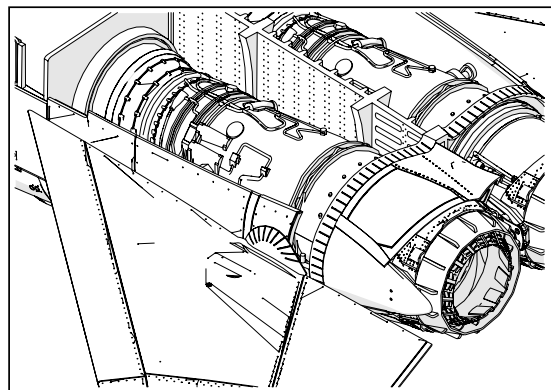
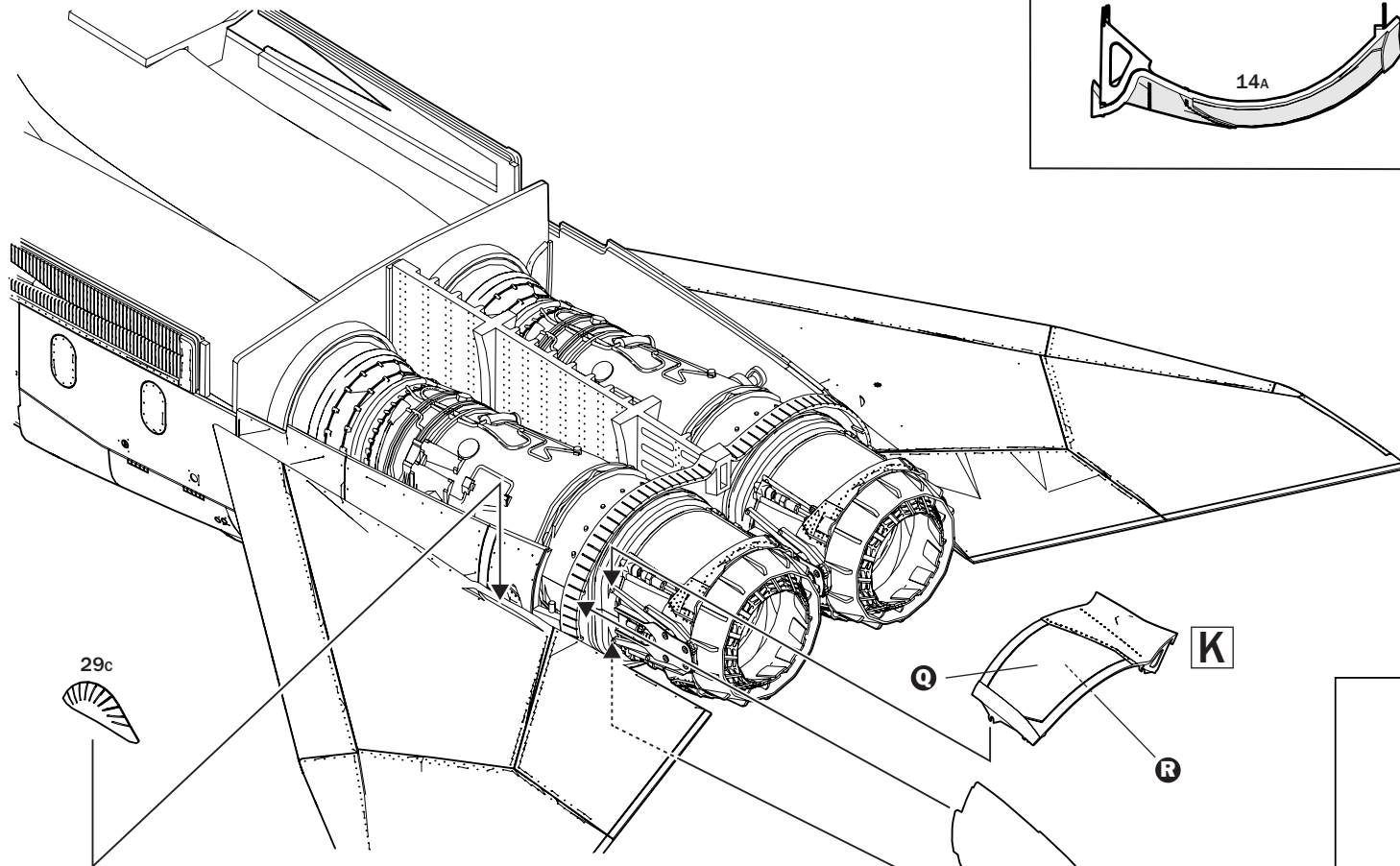
EXTRACTED THRUST REVERSER CONFIGURATION



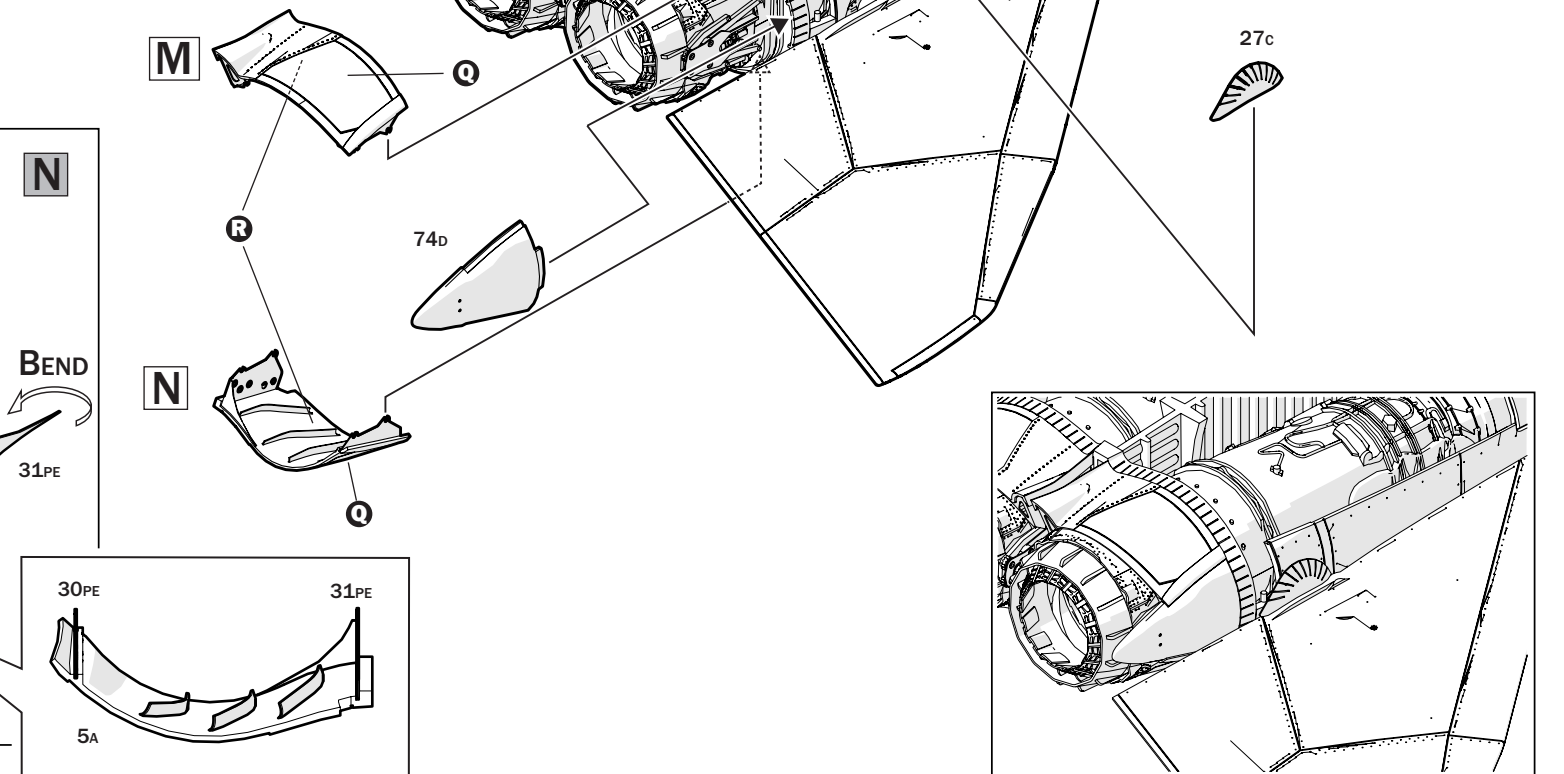
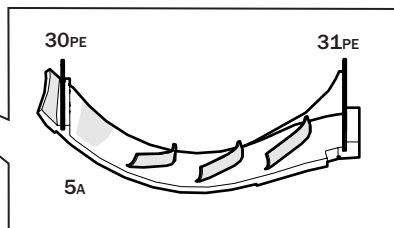
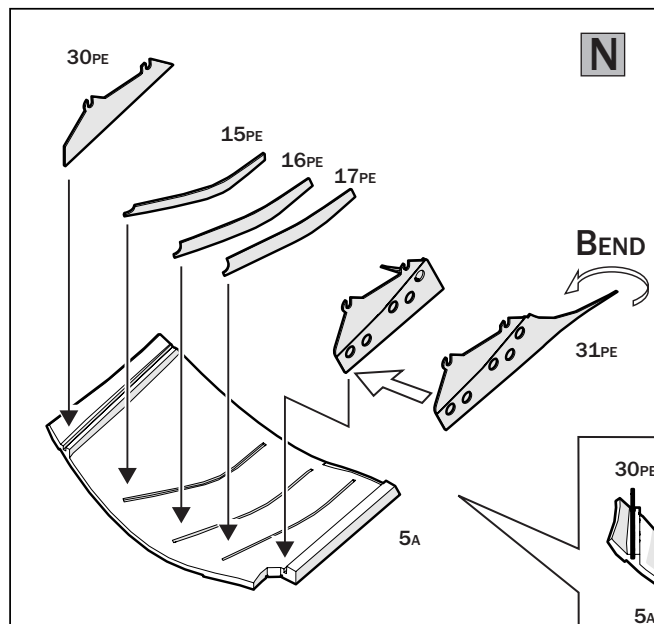
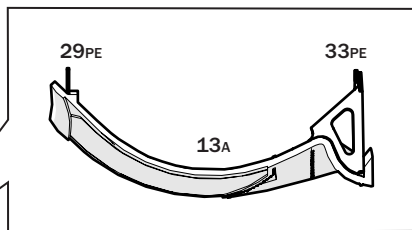
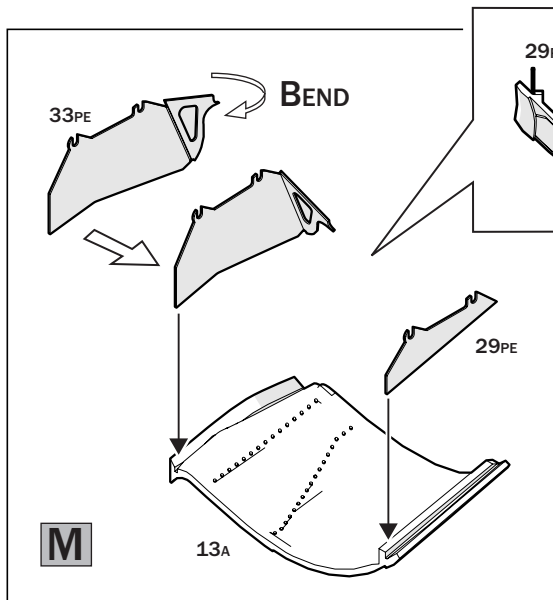




RETRACTED THRUST REVERSER CONFIGURATION

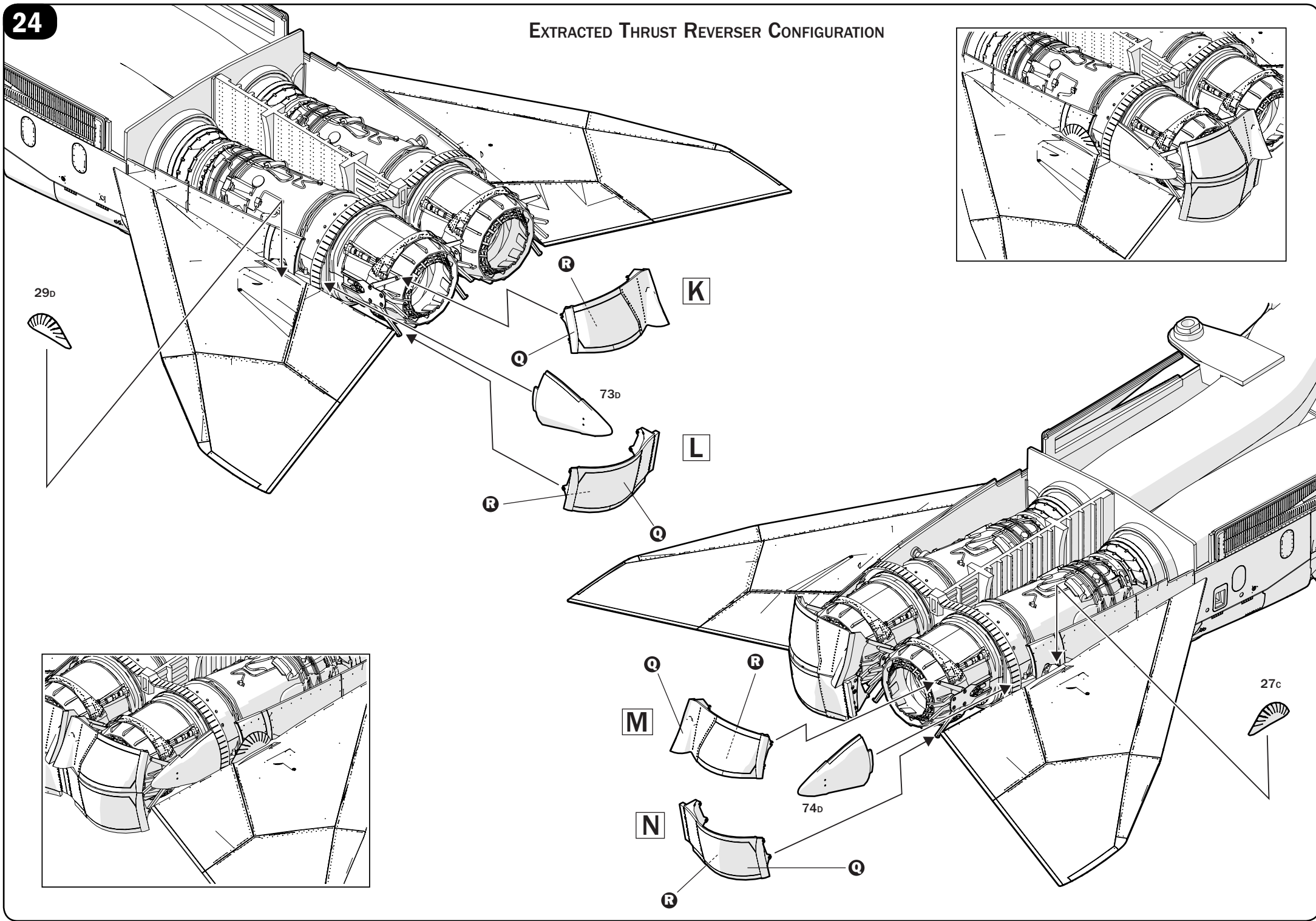


RETRACTED THRUST REVERSER CONFIGURATION

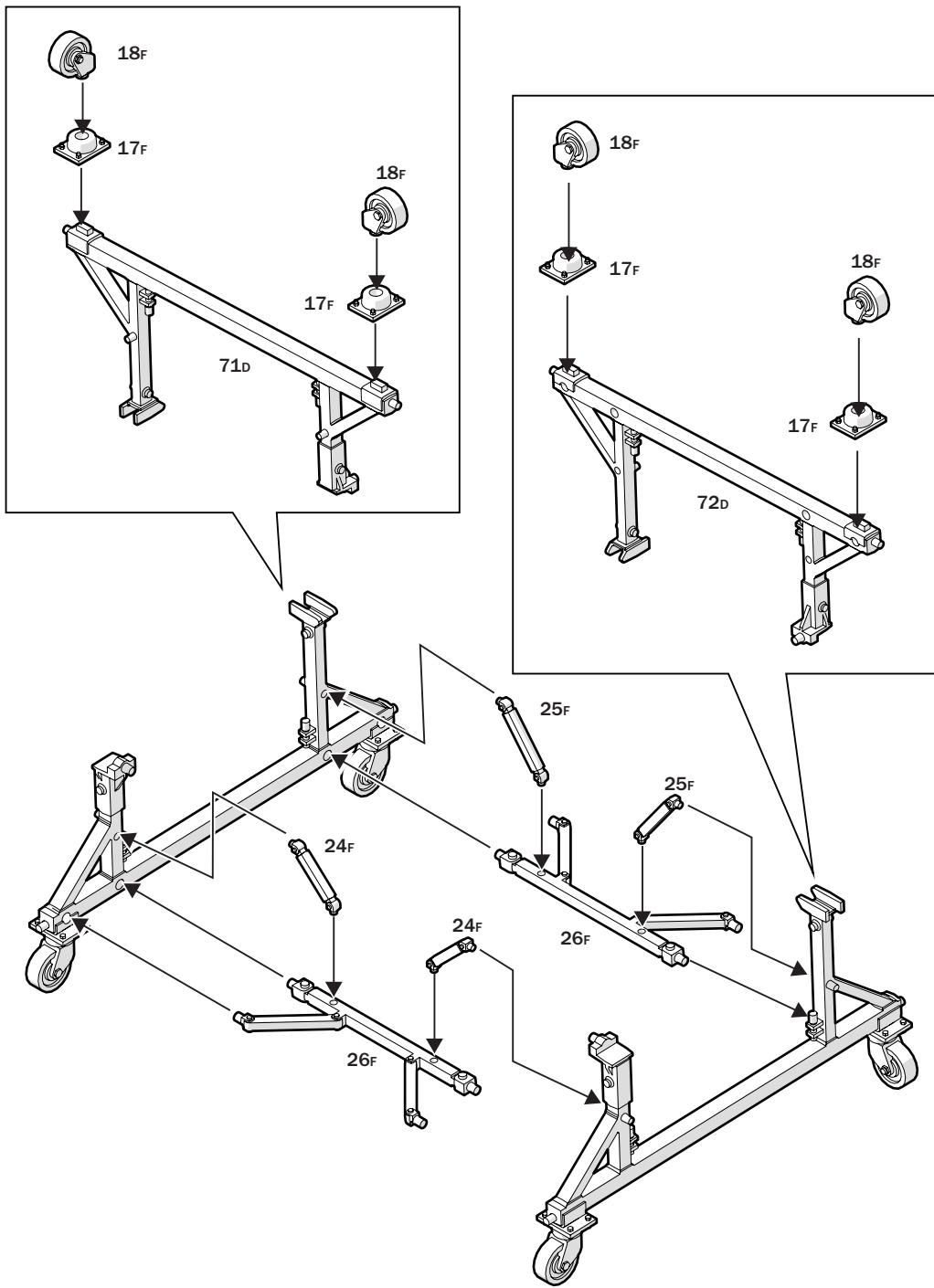




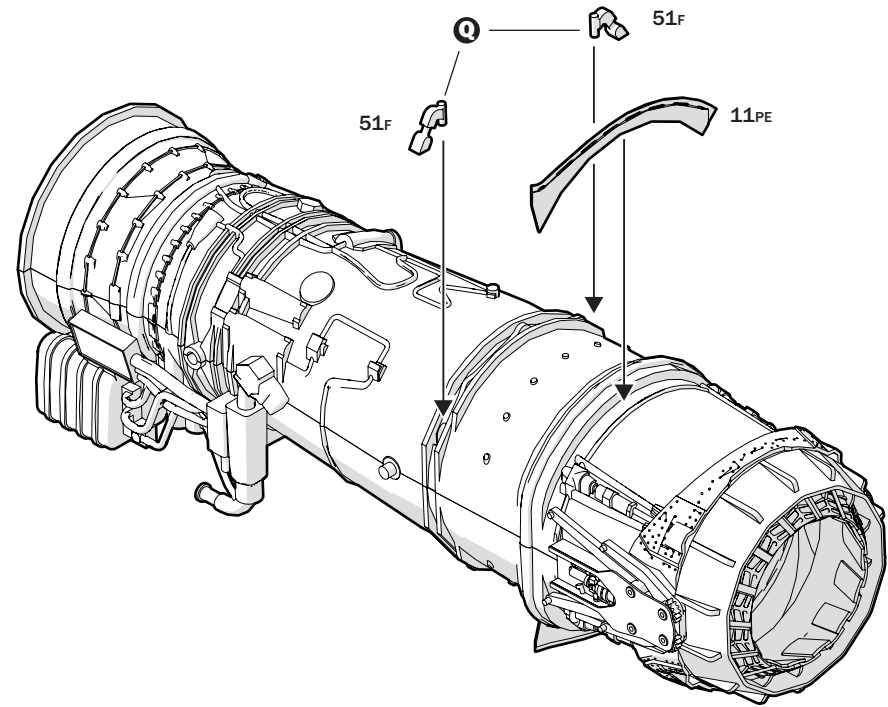
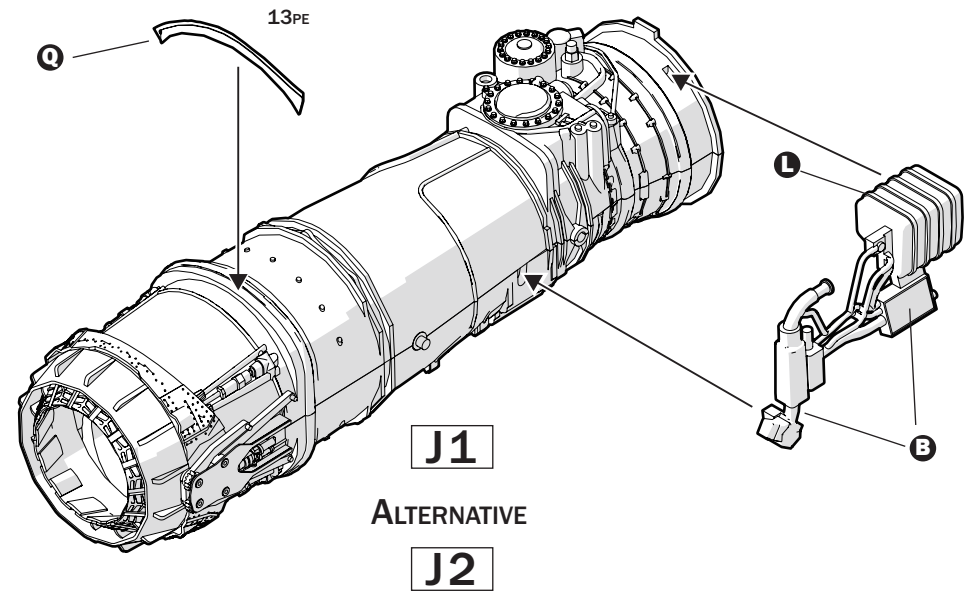
EXTRACTED THRUST REVERSER CONFIGURATION



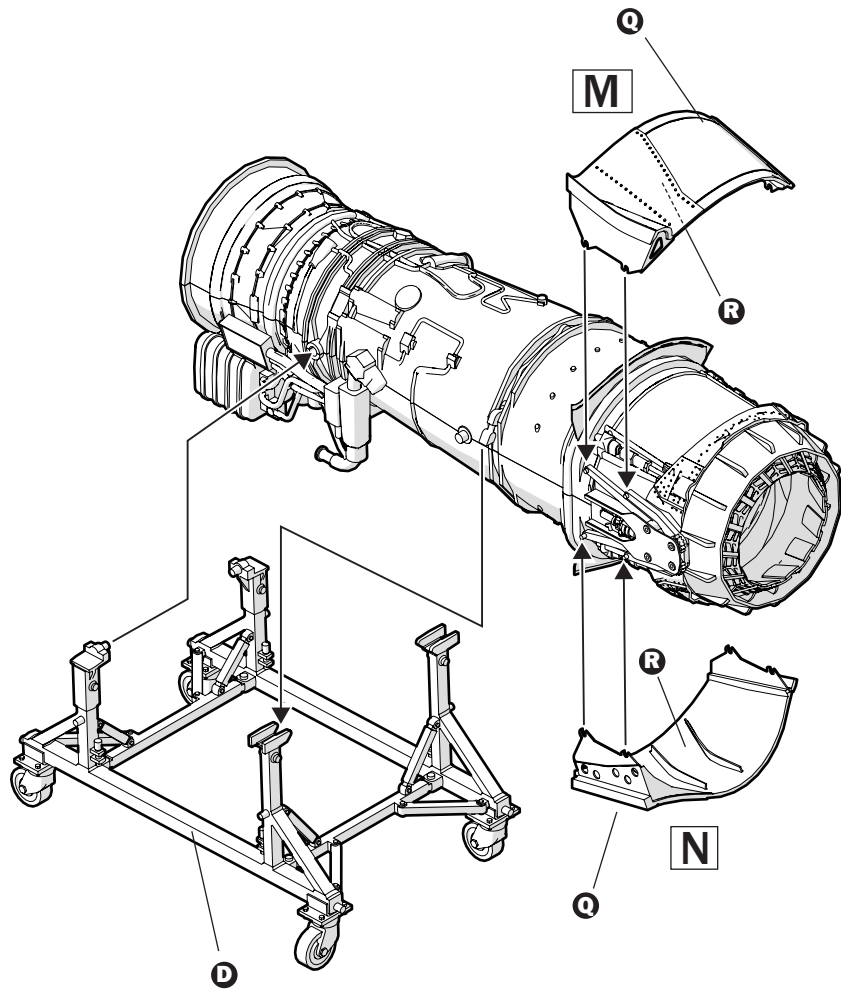
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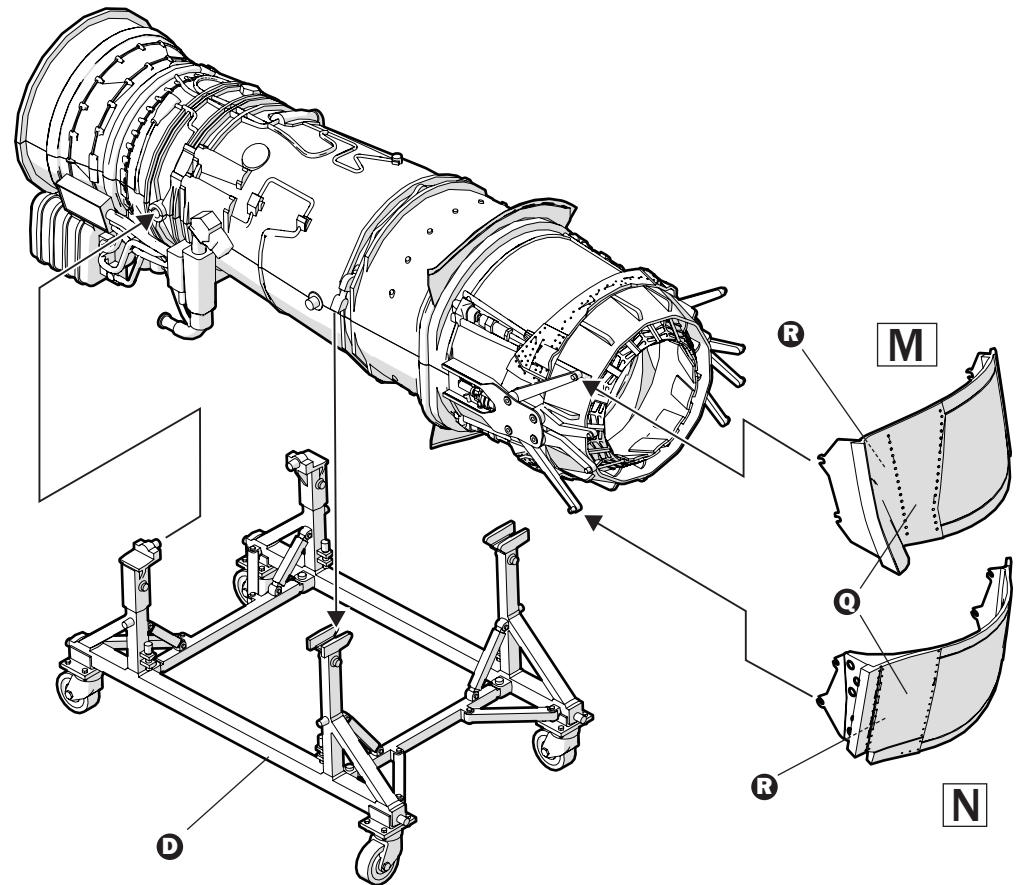
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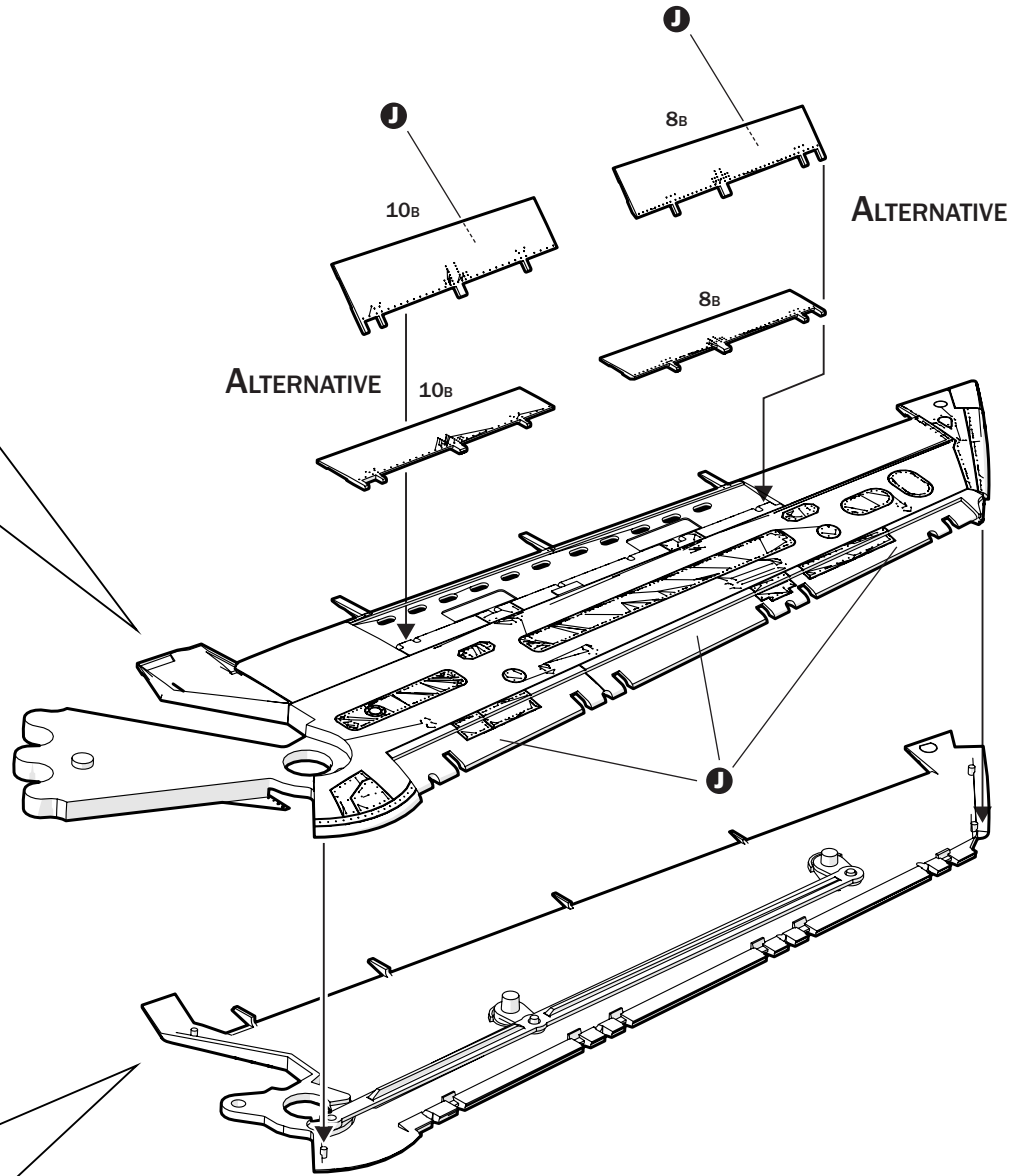
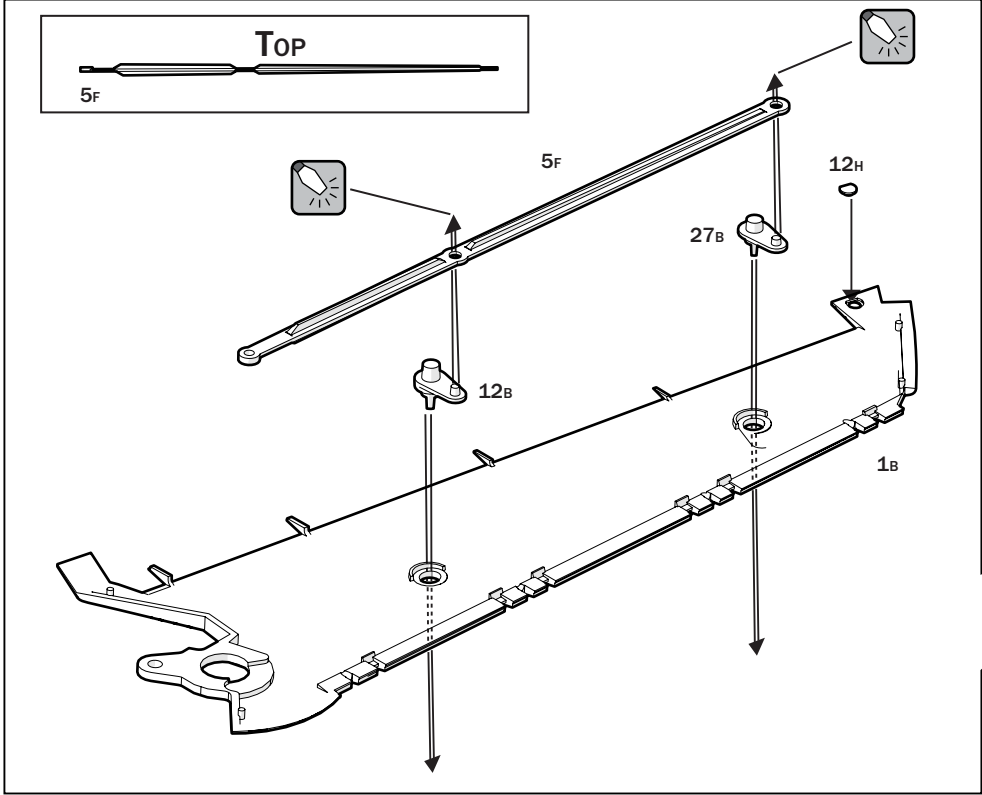
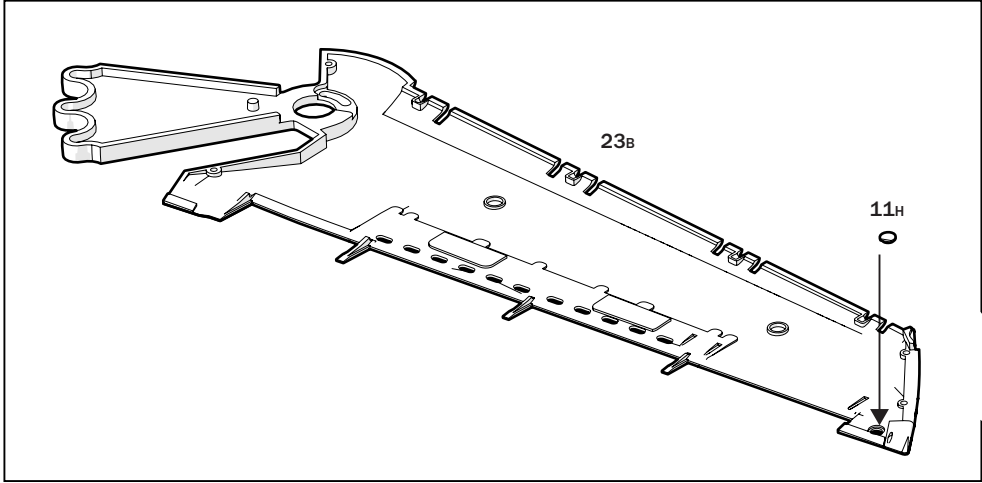


## RETRACTED THRUST REVERSER CONFIGURATION

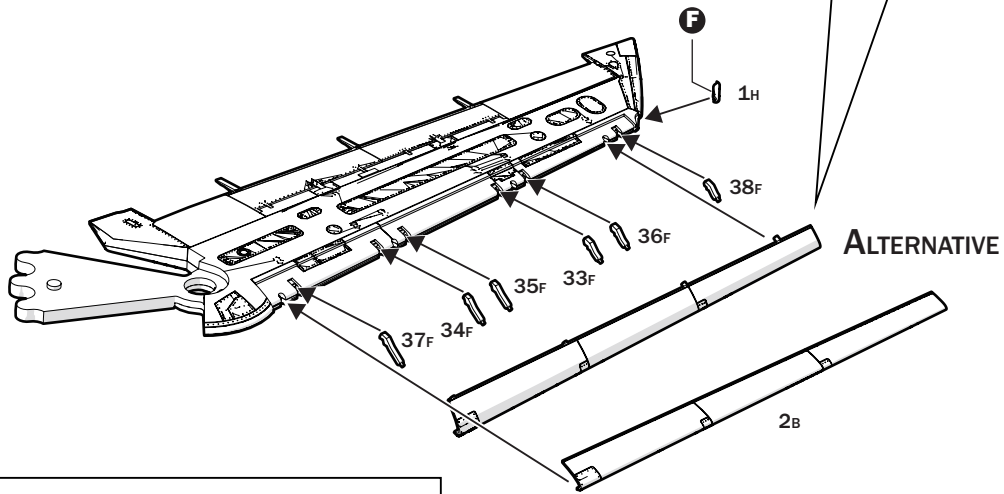
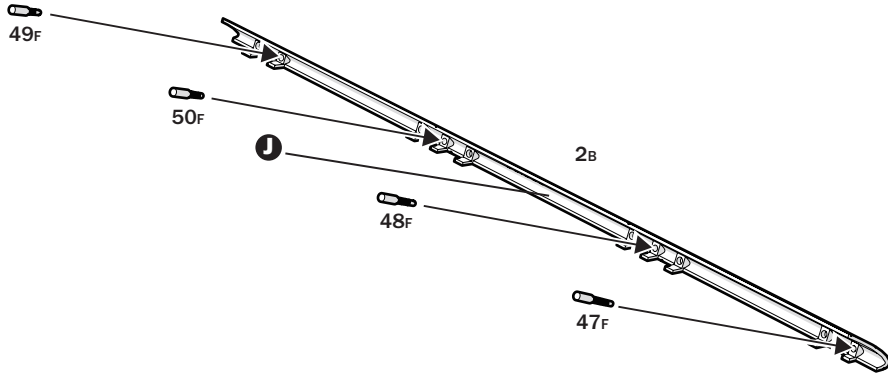


## EXTRACTED THRUST REVERSER CONFIGURATION

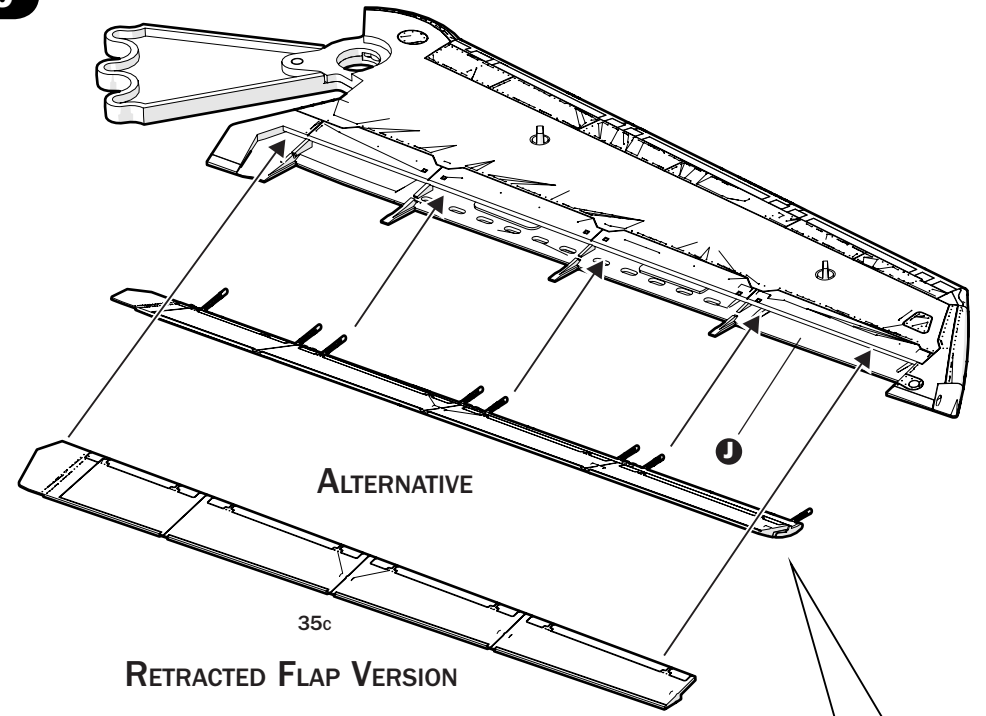
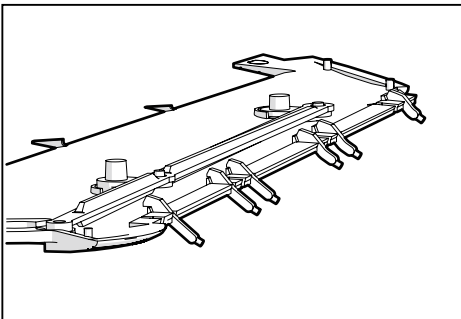




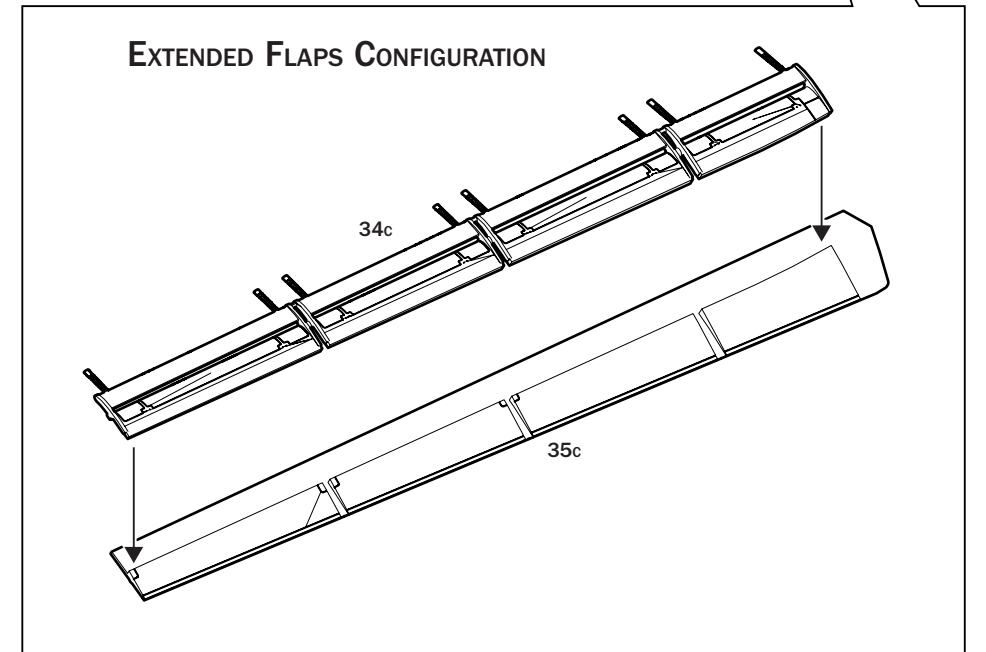
EXTENDED SLATS CONFIGURATION



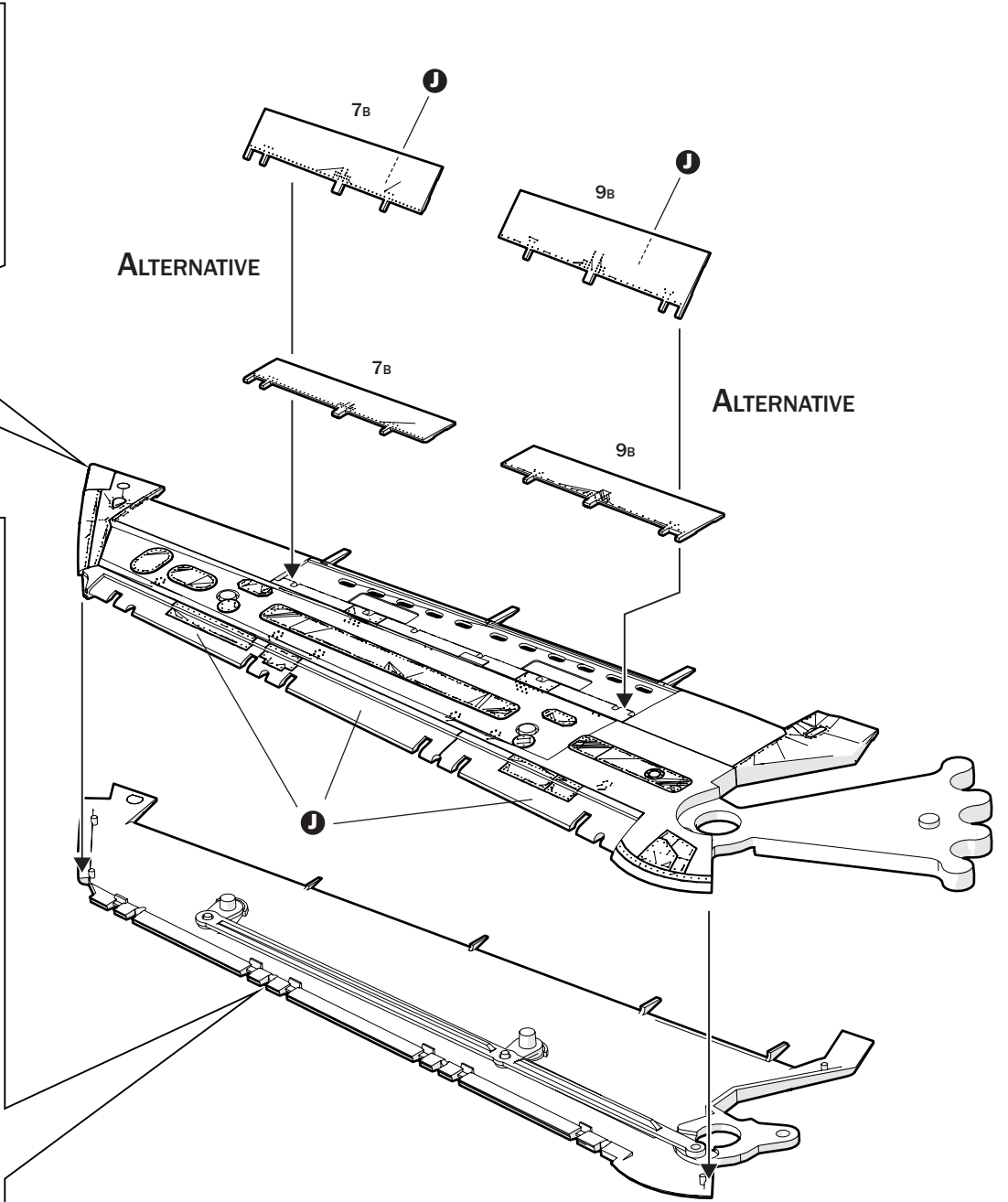
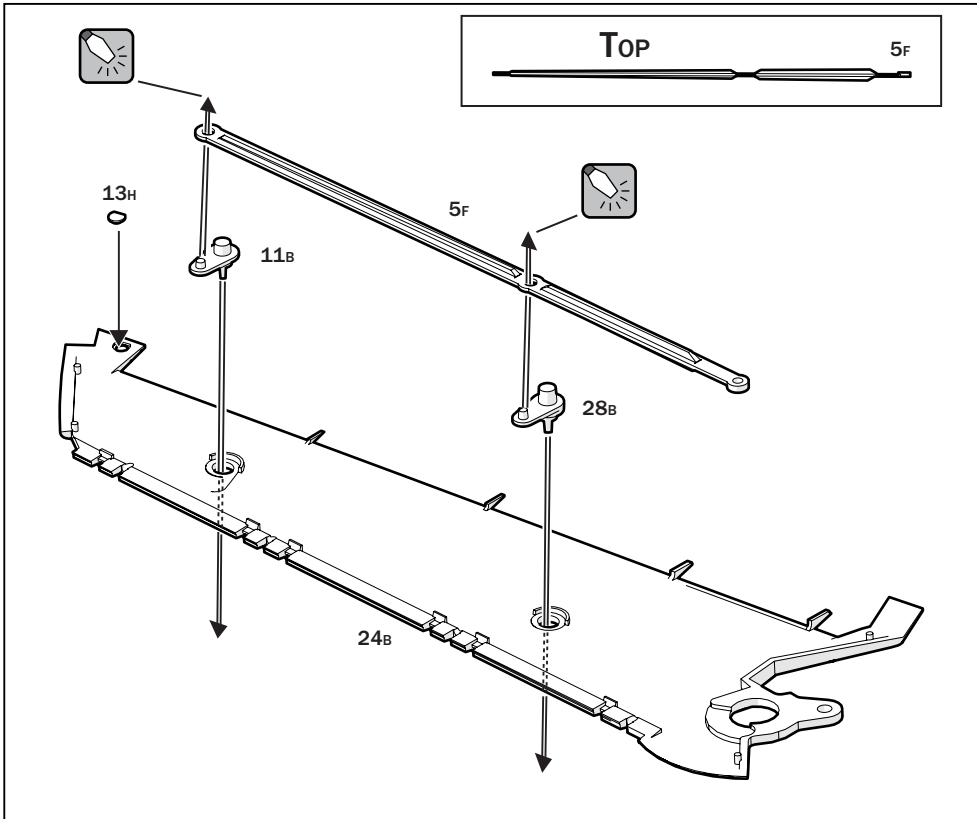
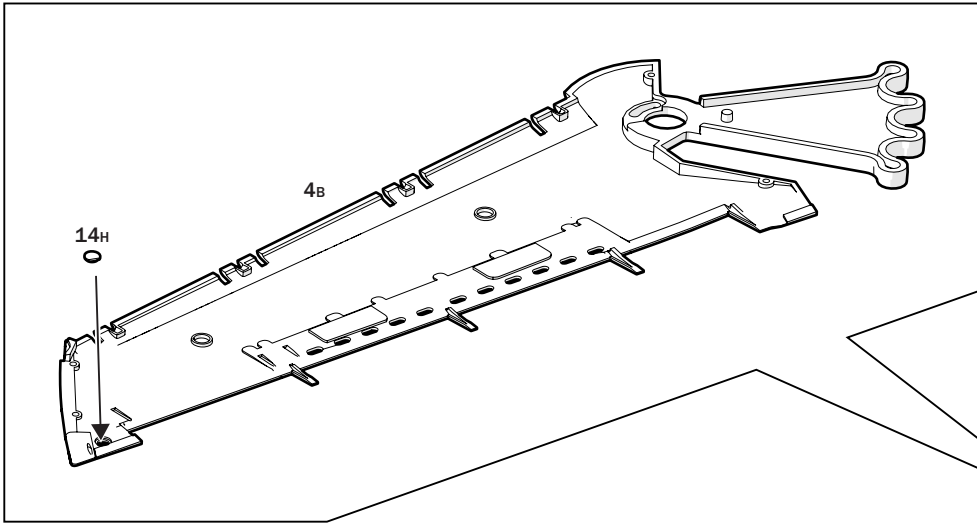
RETRACTED SLAT CONFIGURATION



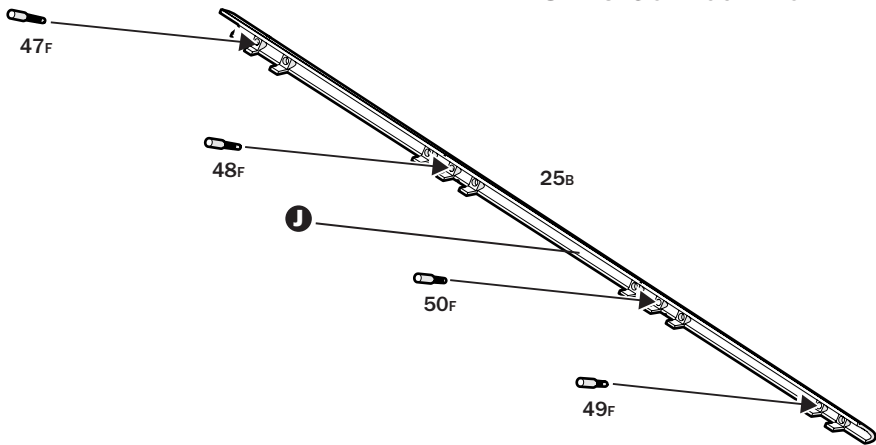
RETRACTED FLAP VERSION



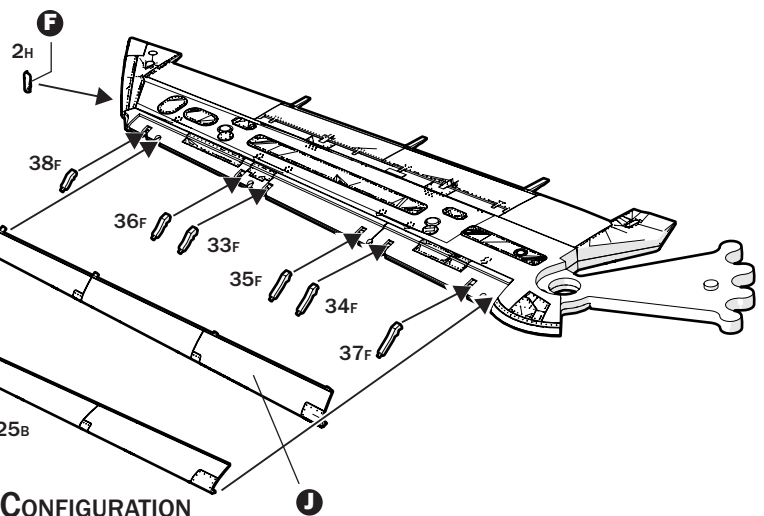
EXTENDED FLAPS CONFIGURATION



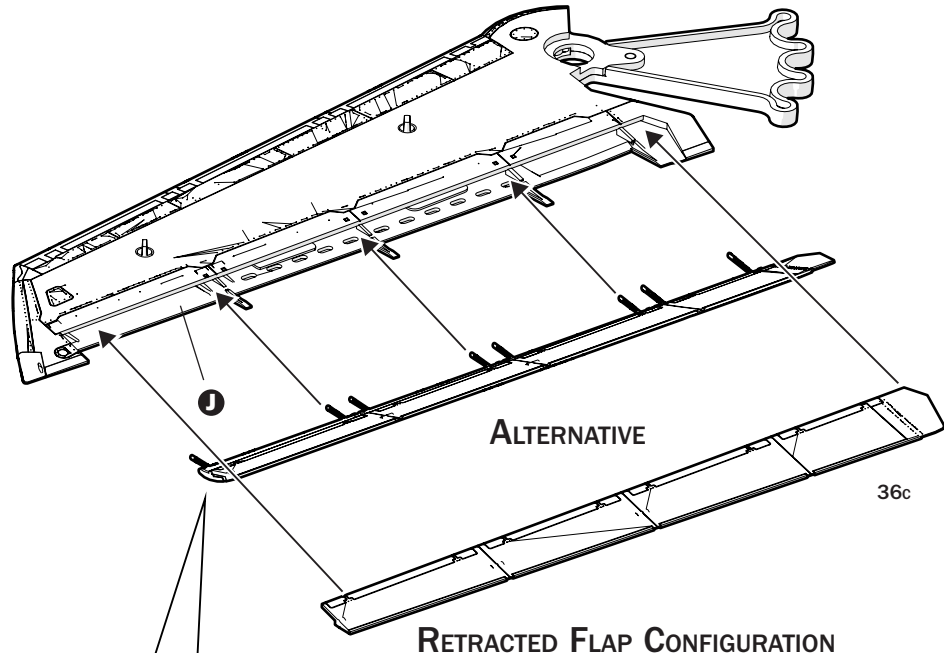
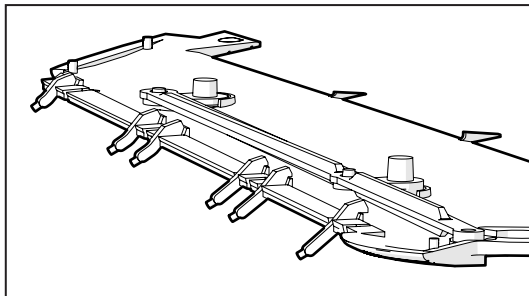
EXTENDED SLATS CONFIGURATION



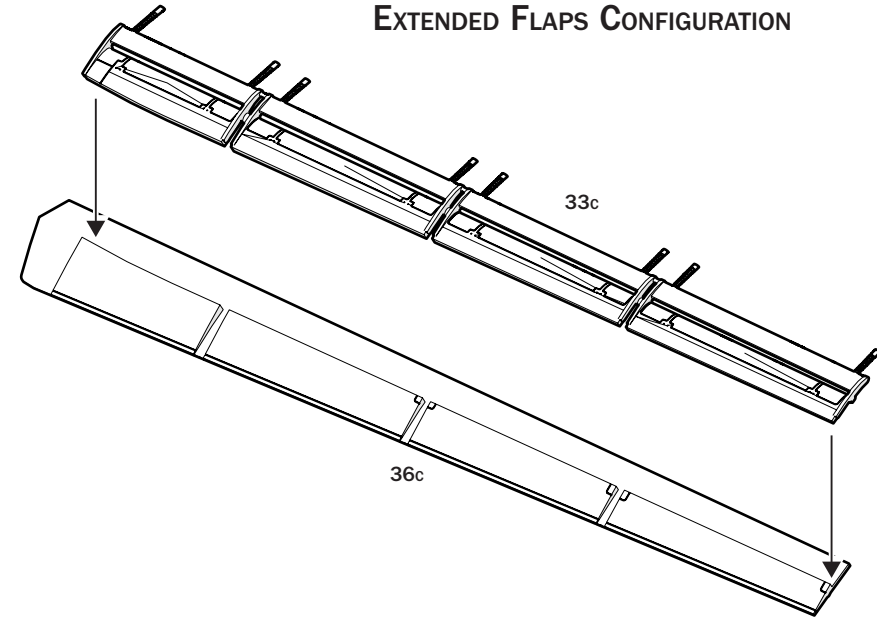
ALTERNATIVE



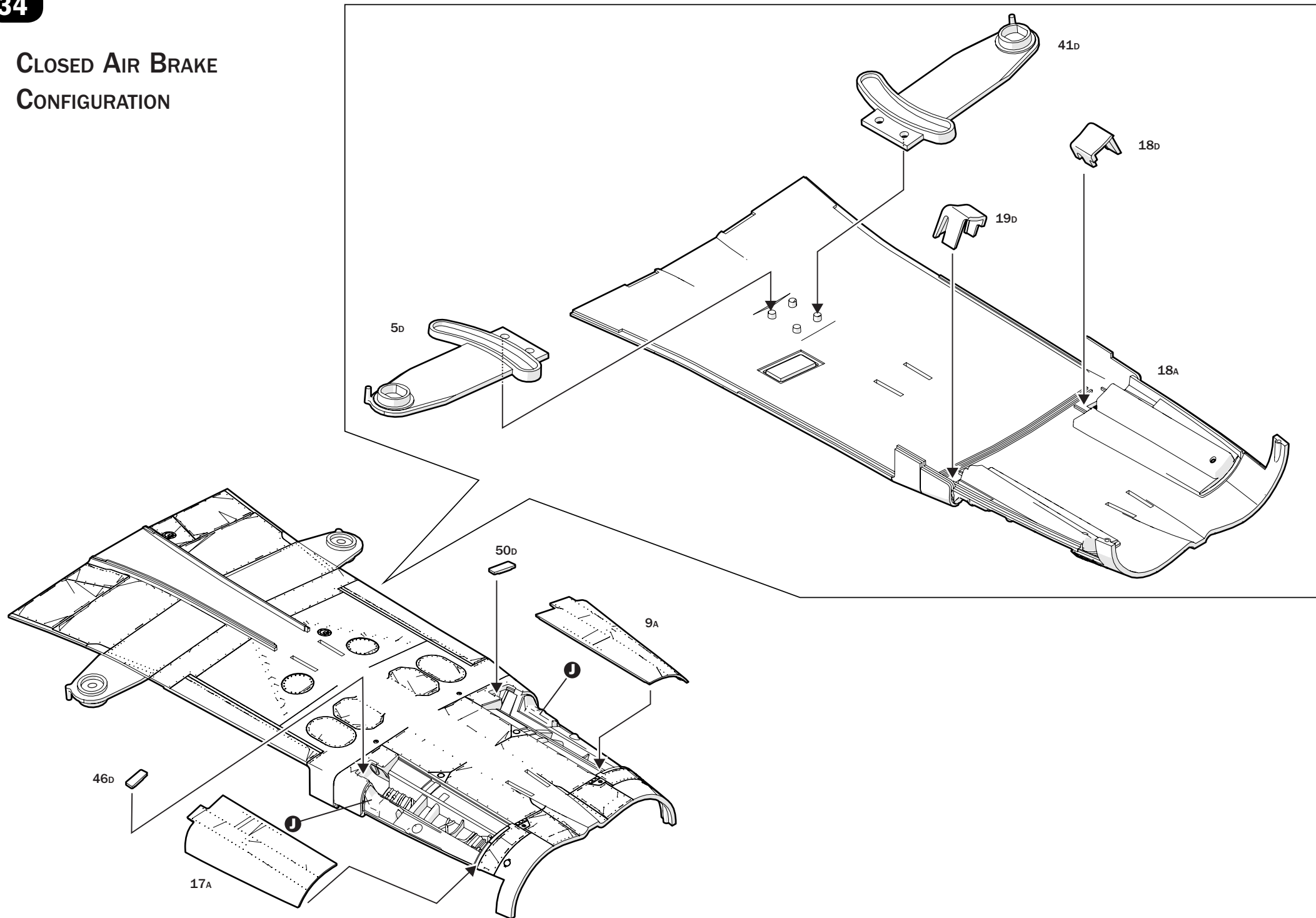
RETRACTED SLAT CONFIGURATION



EXTENDED FLAPS CONFIGURATION

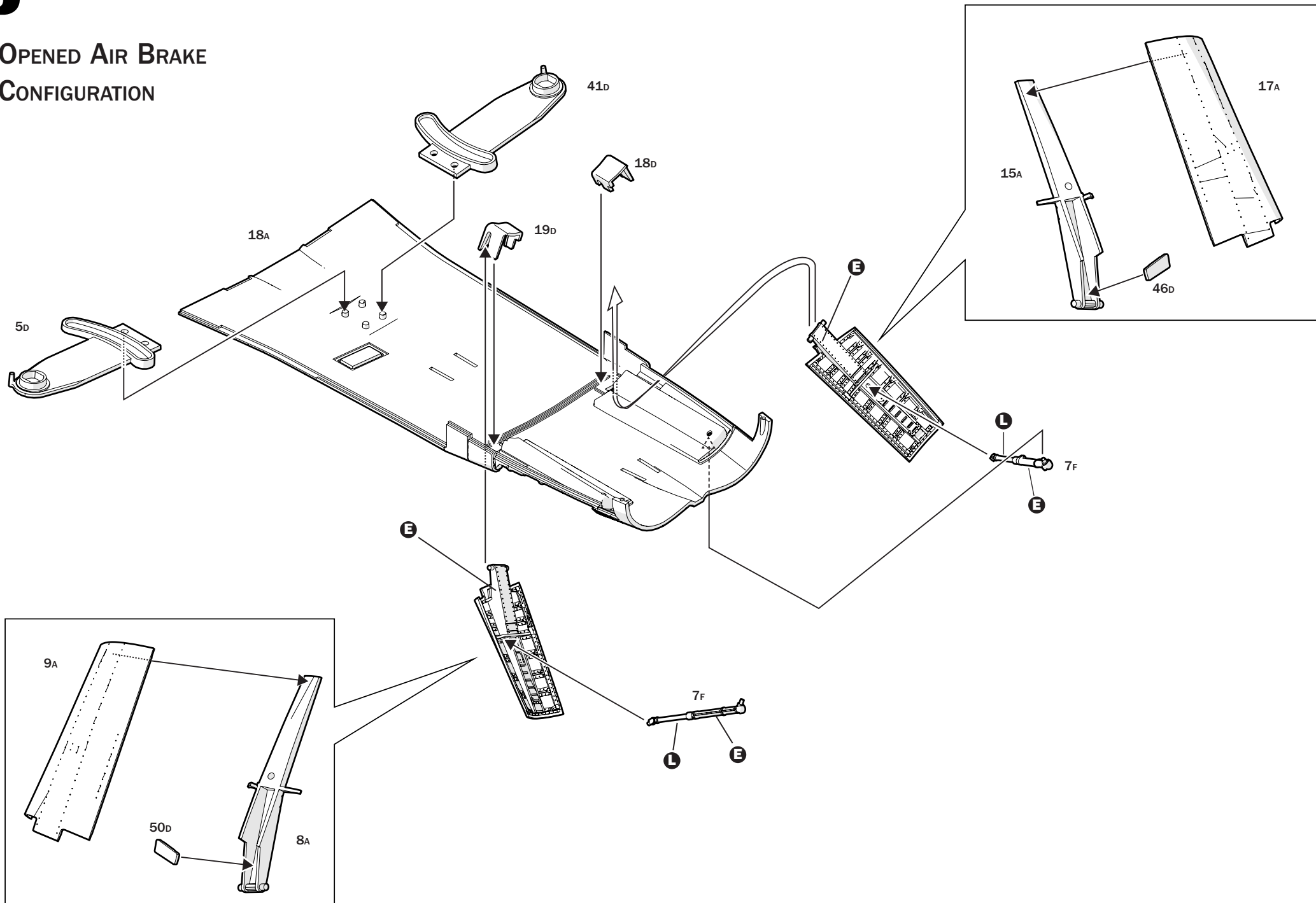


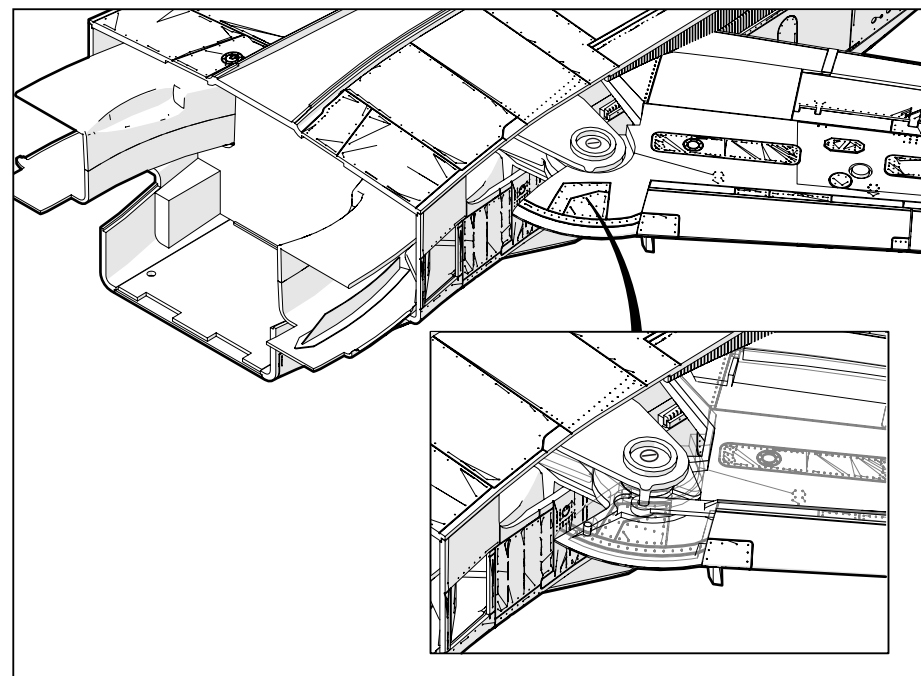
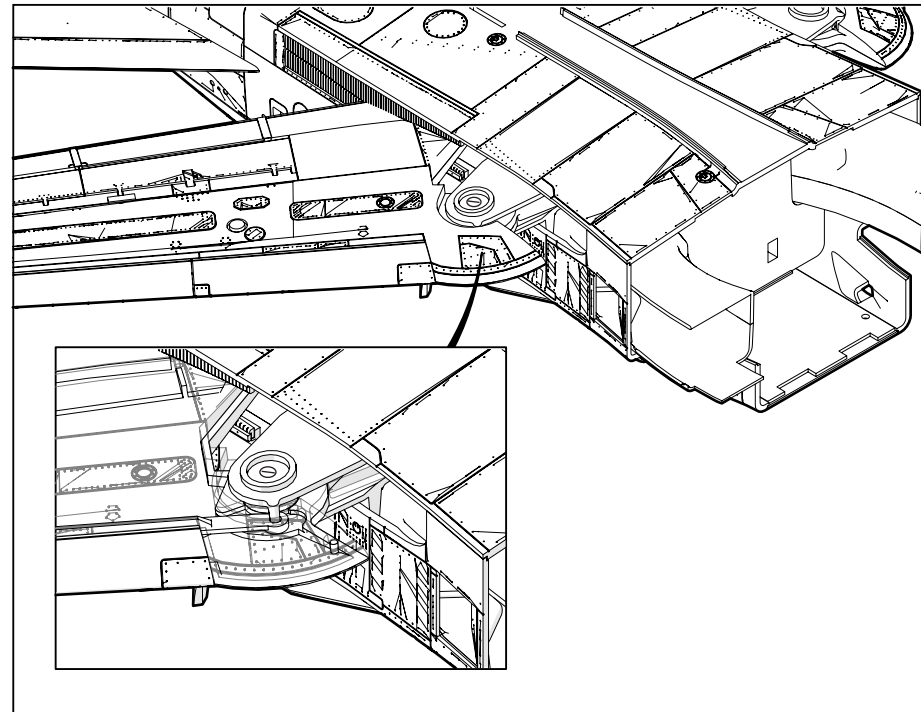
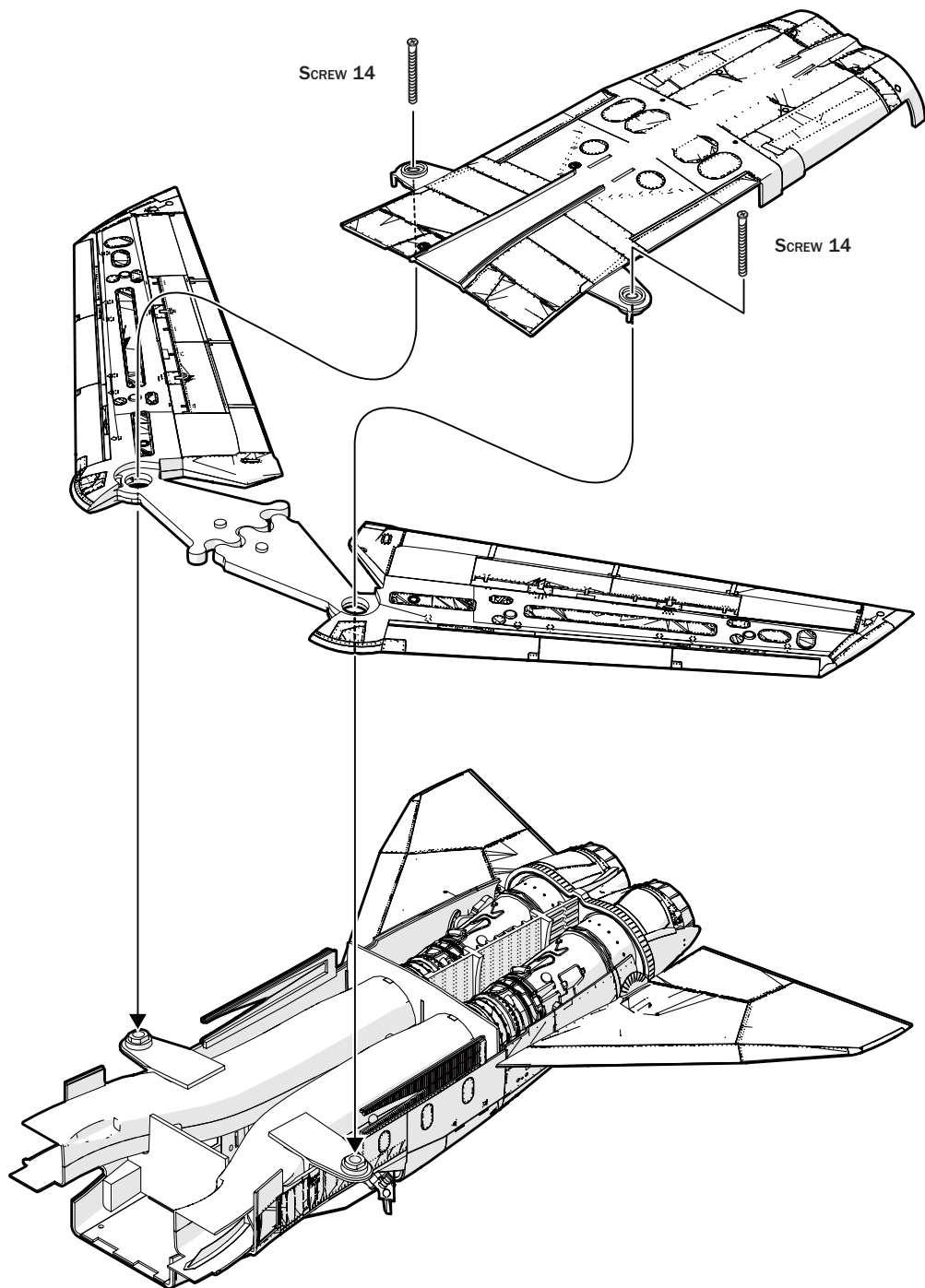
# CLOSED AIR BRAKE CONFIGURATION

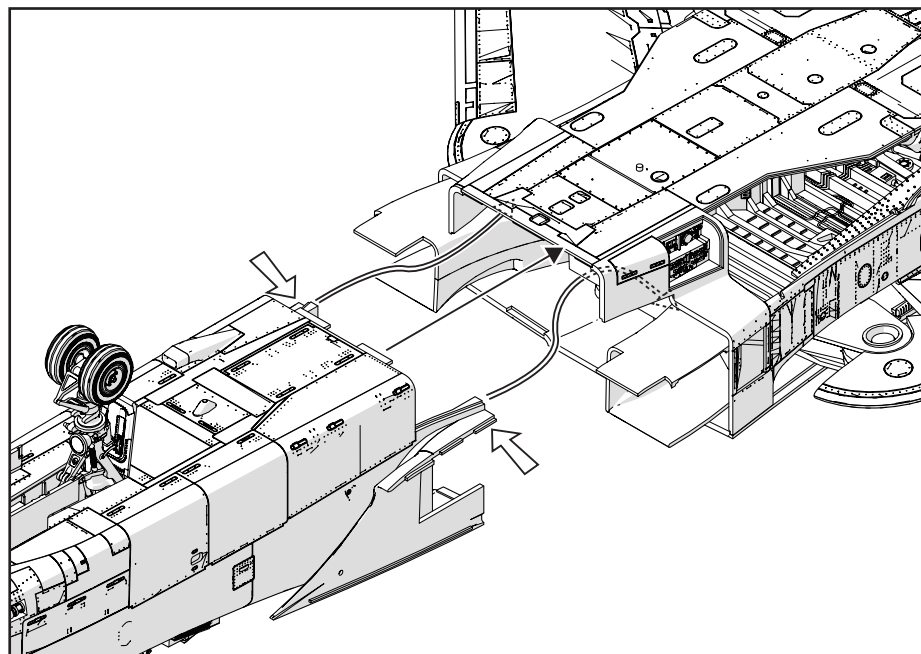
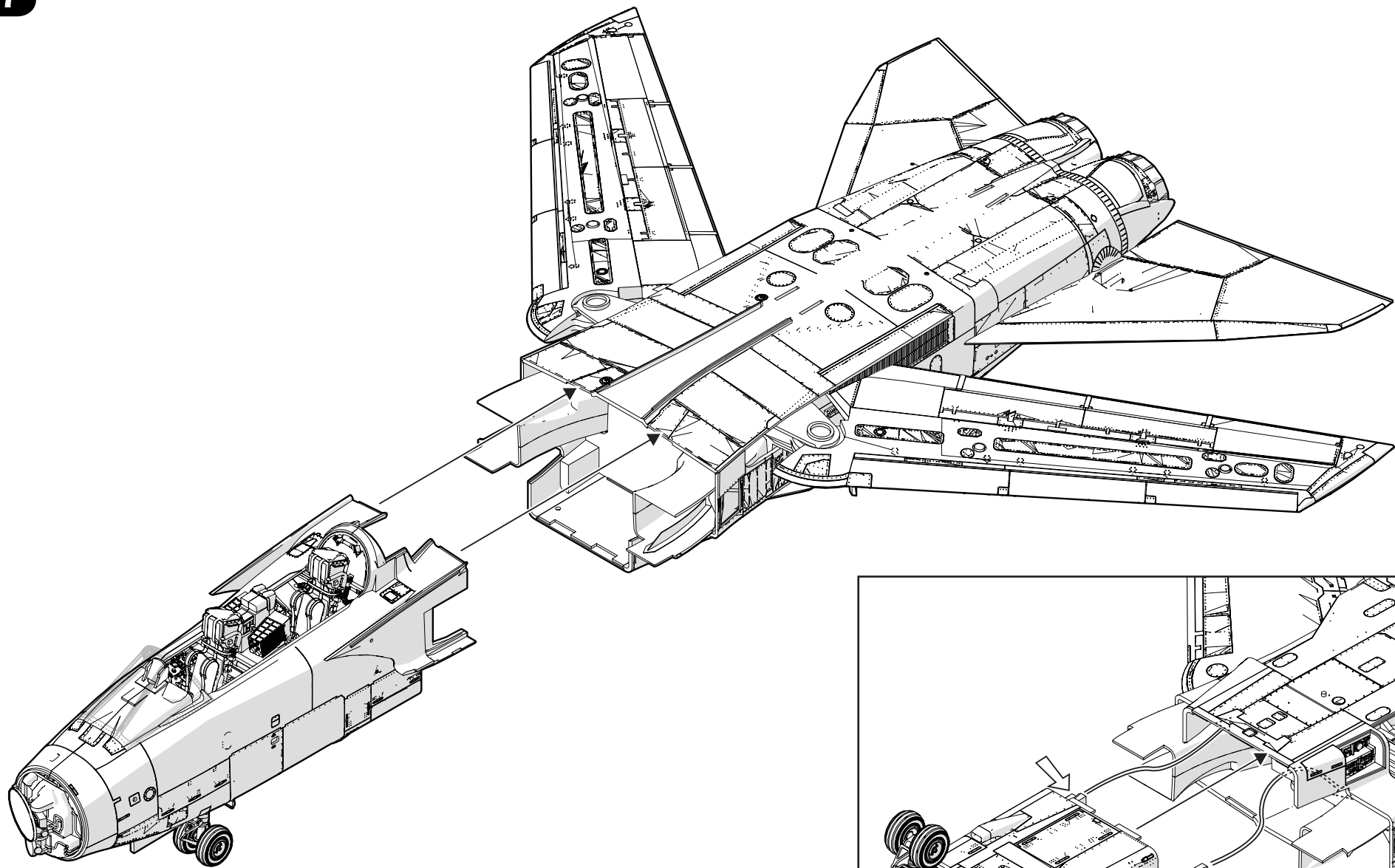




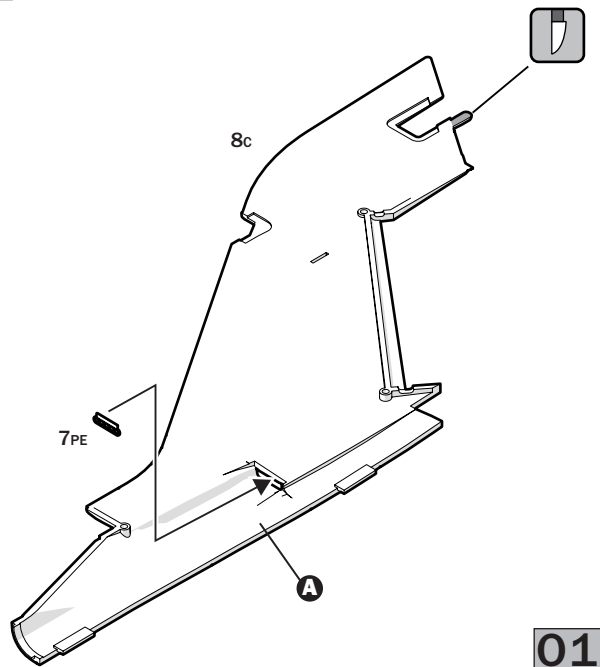
# OPENED AIR BRAKE CONFIGURATION





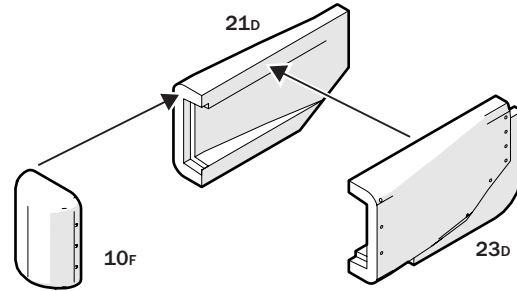


REMOVE ONLY VERSION D

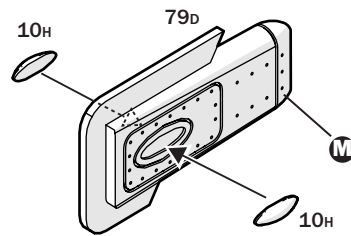


01

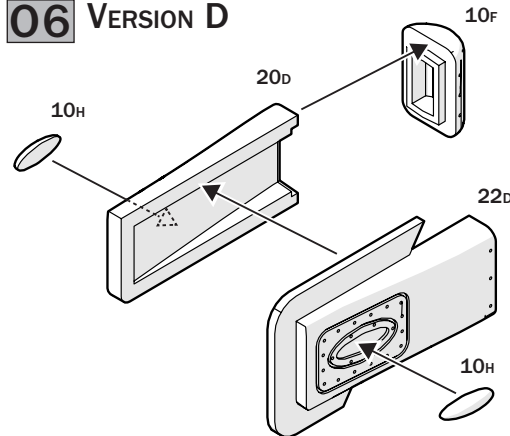
02 VERSION D



04 VERSIONS A - B - C

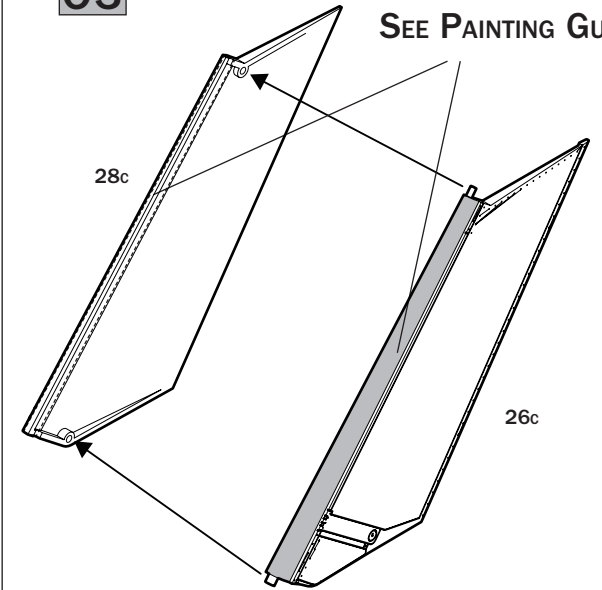


06 VERSION D

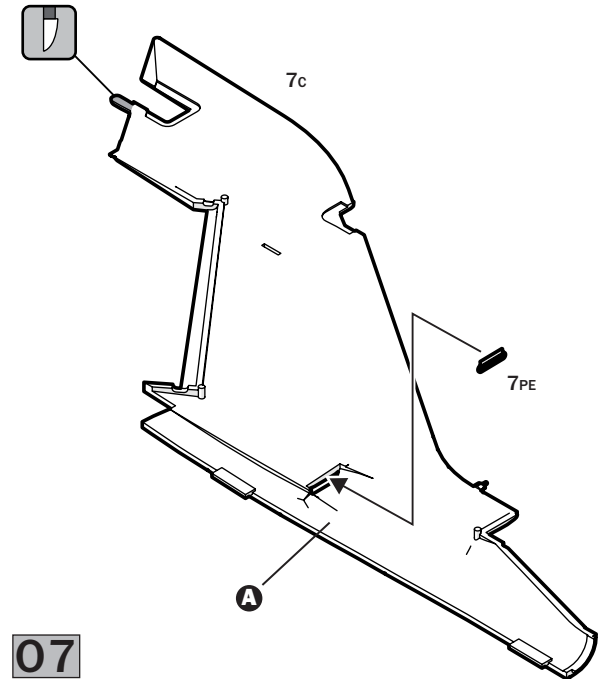


03

FOR RUDDER COLORING  
SEE PAINTING GUIDE

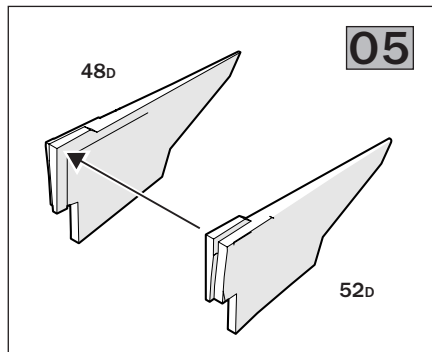


REMOVE ONLY VERSION D

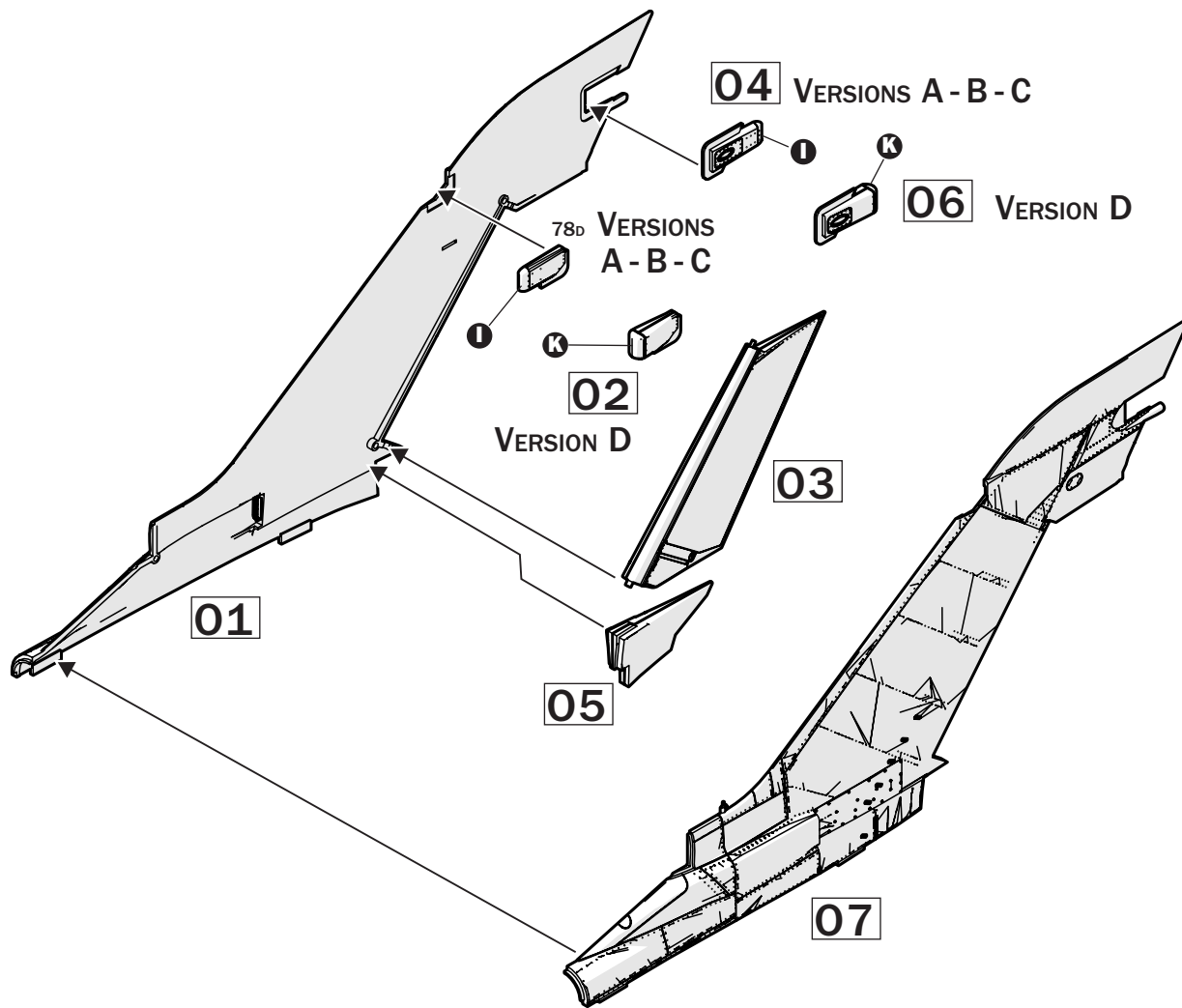


07

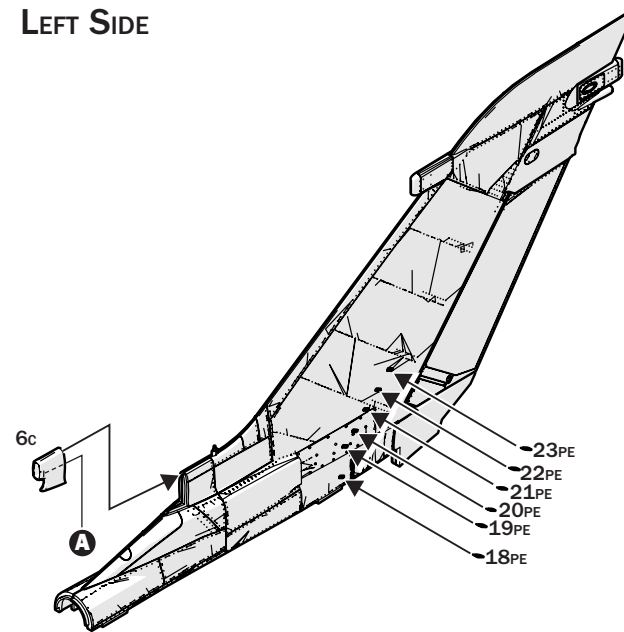
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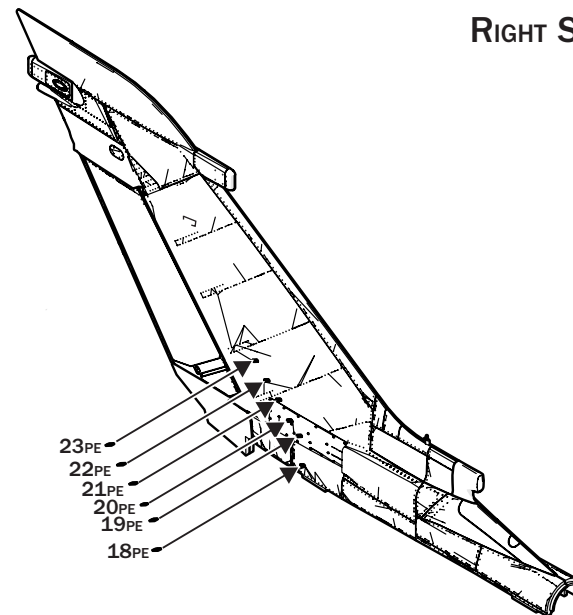
P



LEFT SIDE

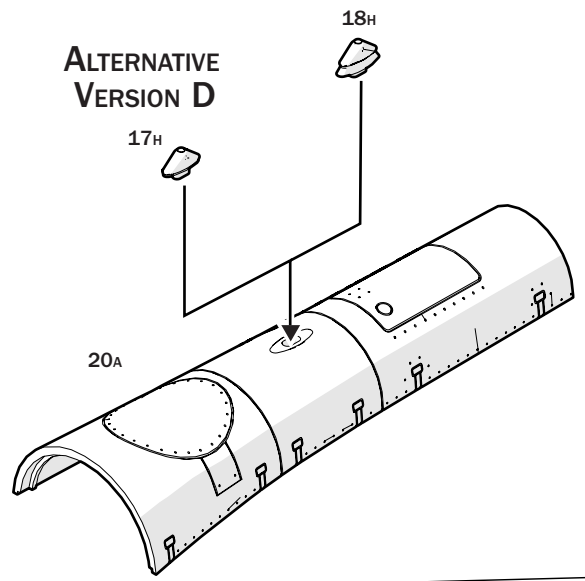


RIGHT SIDE



ALTERNATIVE  
VERSIONS A- B -C

ALTERNATIVE  
VERSION D

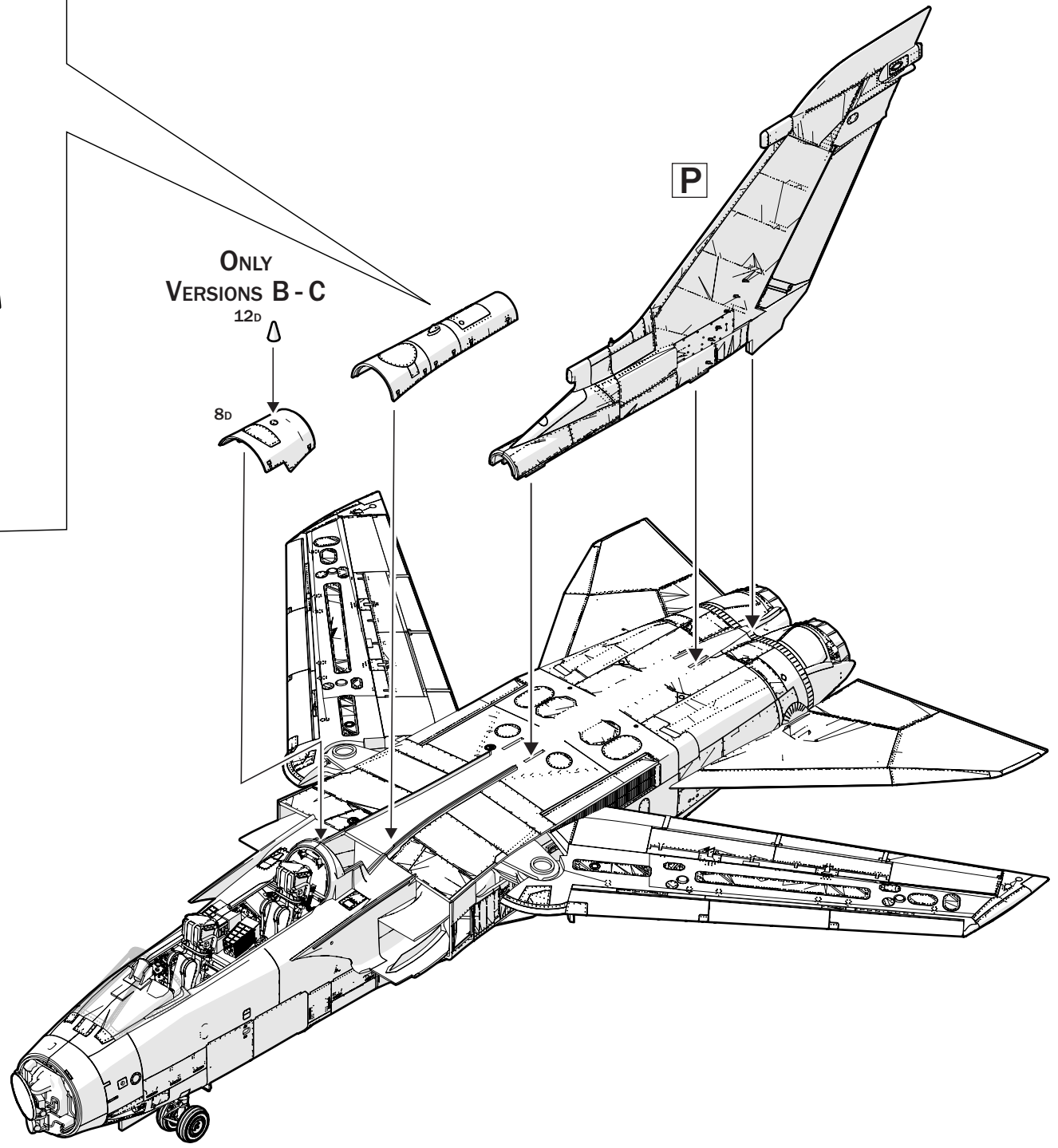


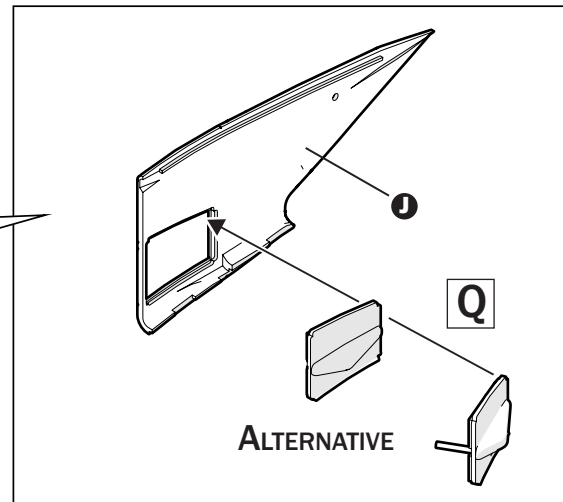
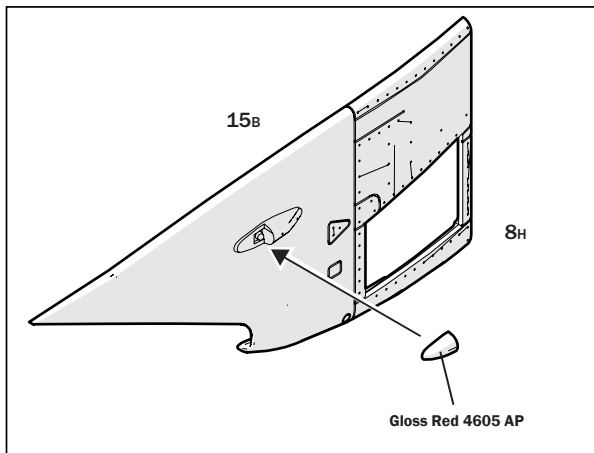
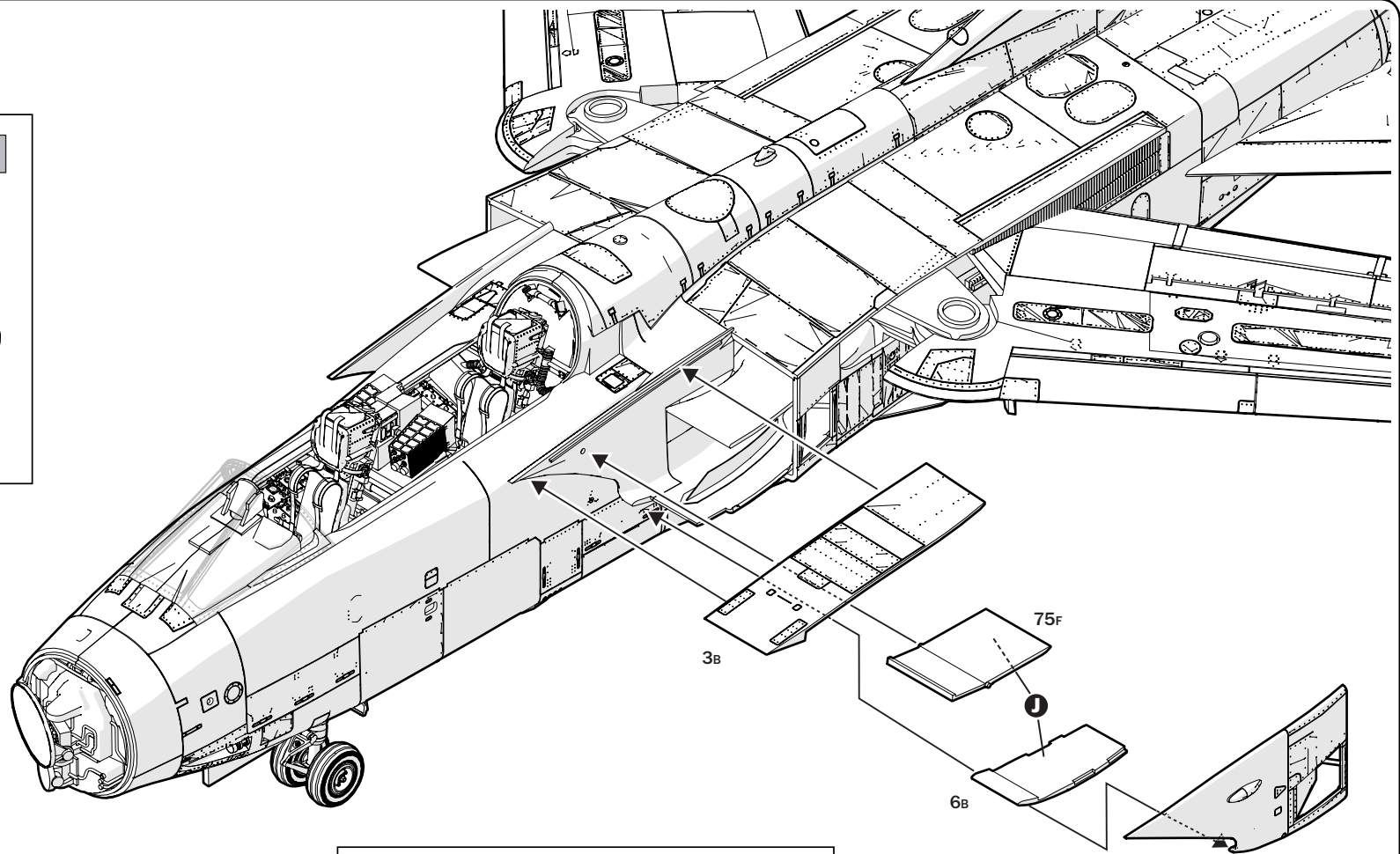
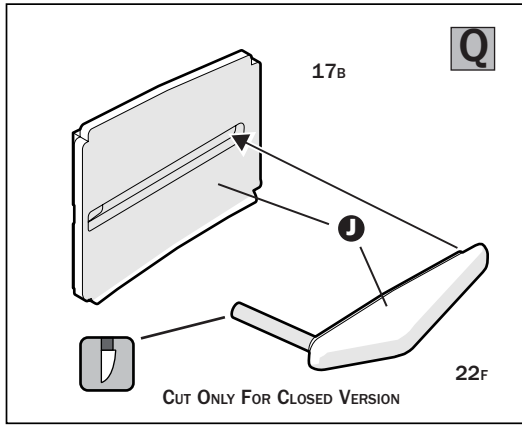
ONLY  
VERSIONS B - C

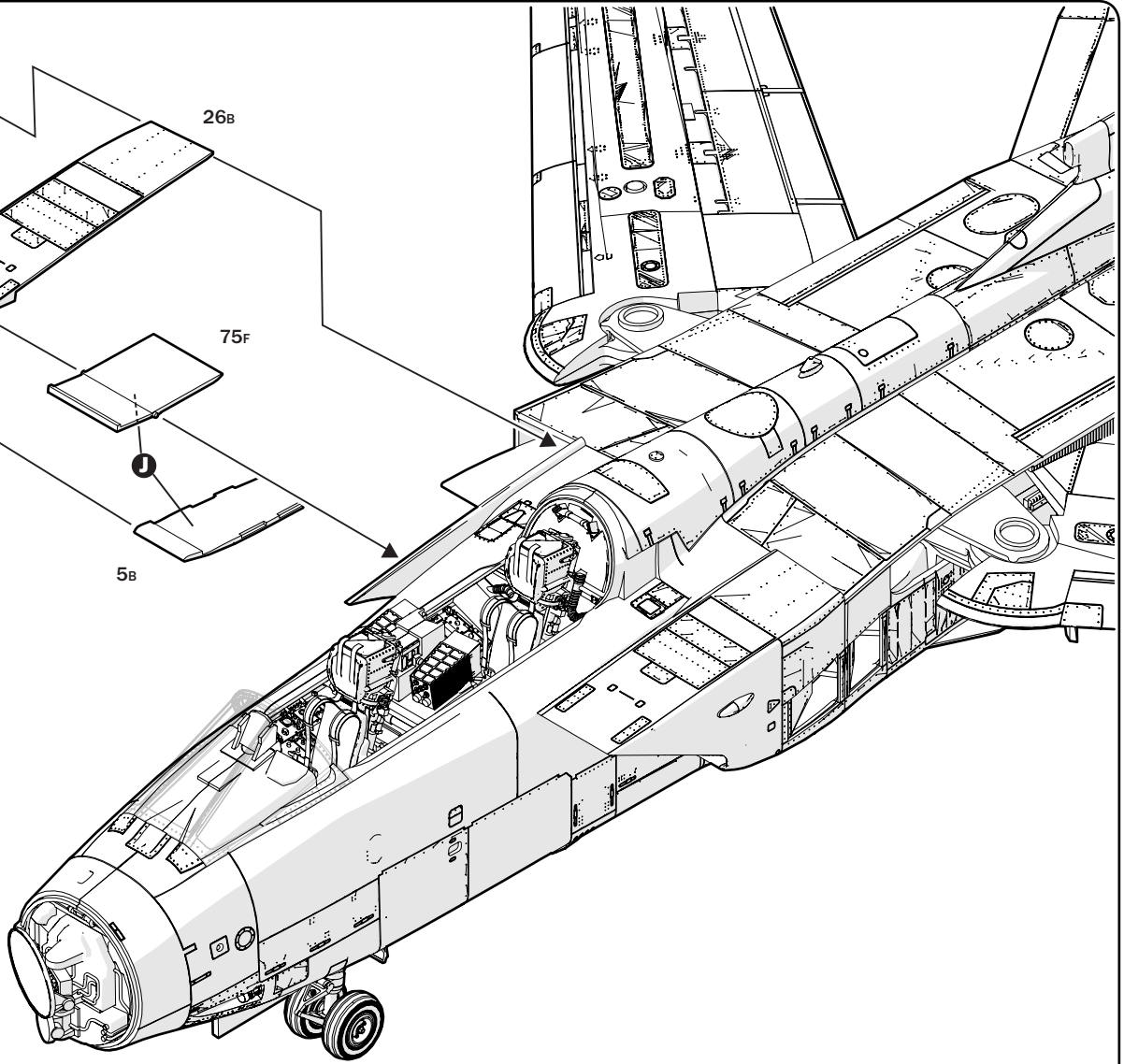
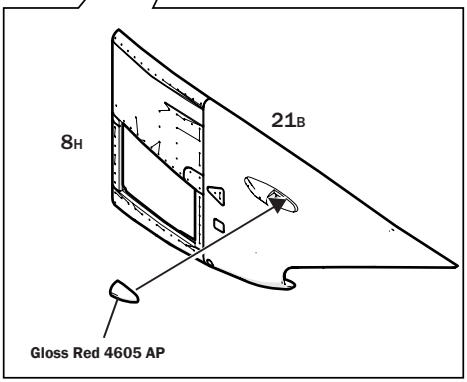
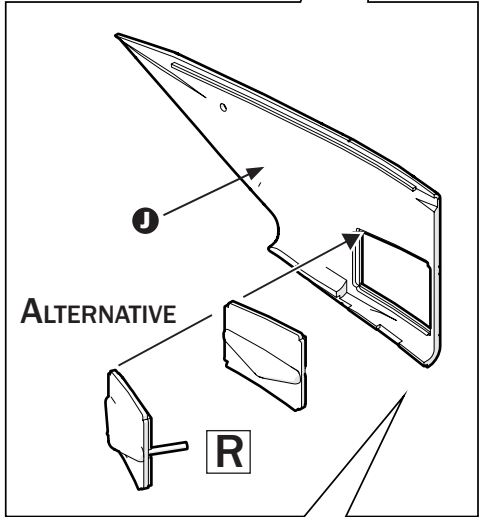
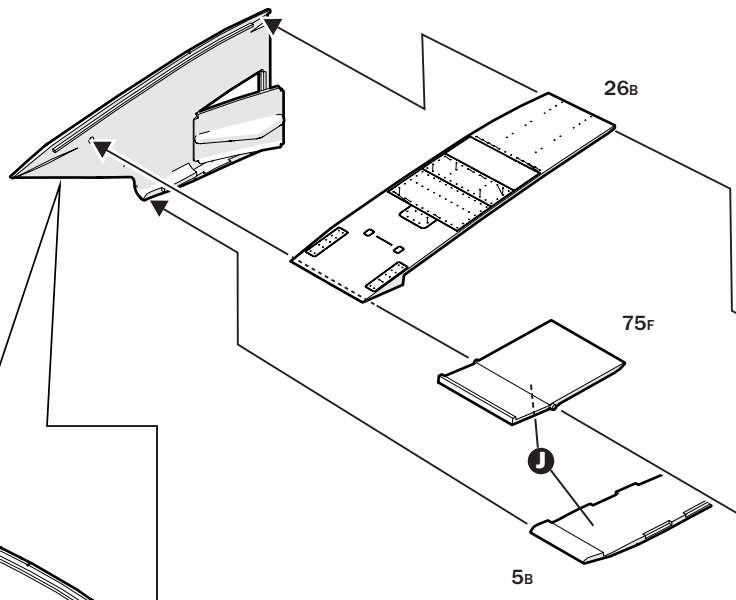
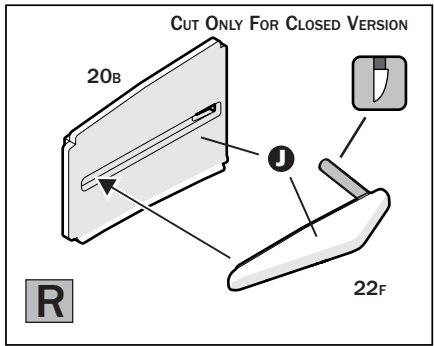
12D

8D

P

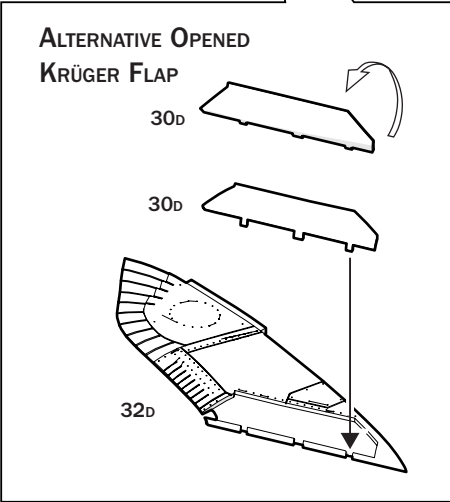
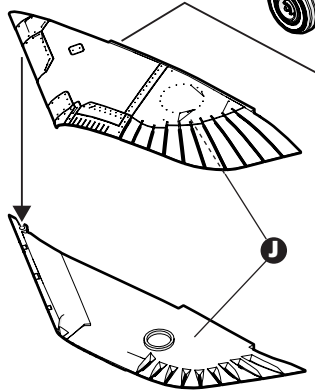
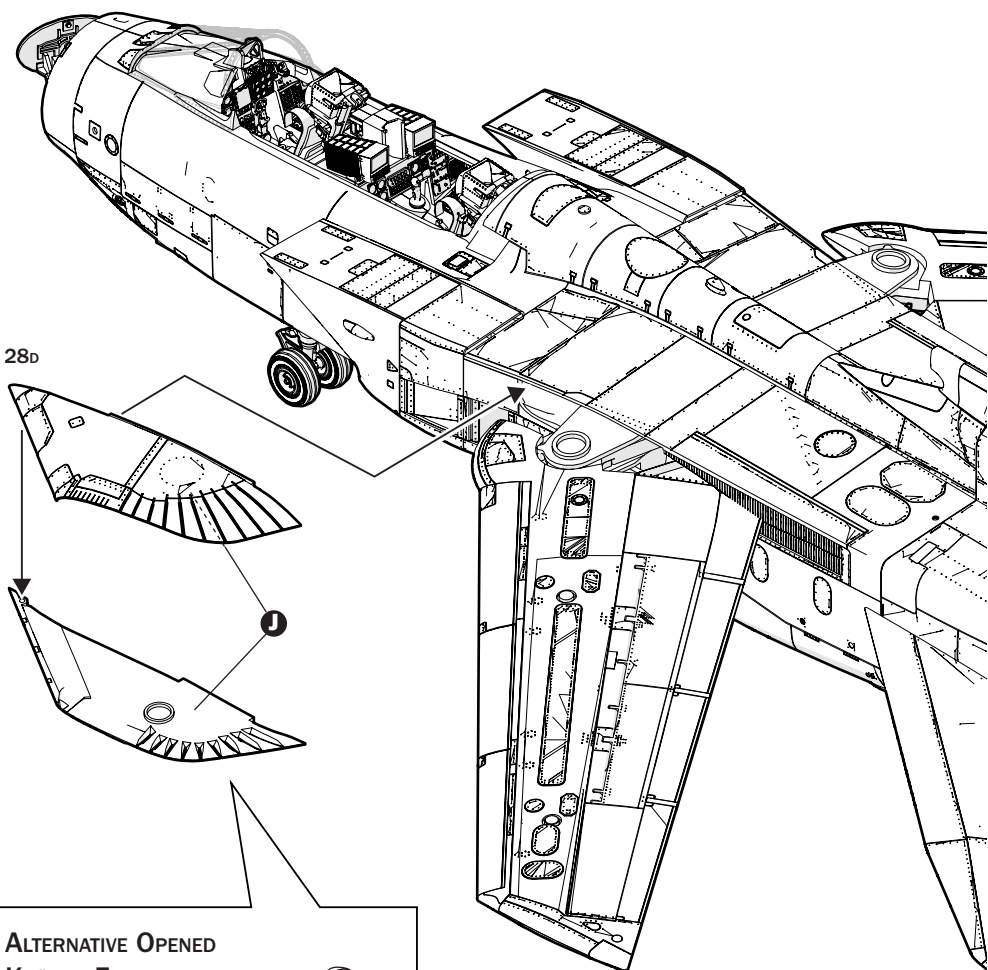




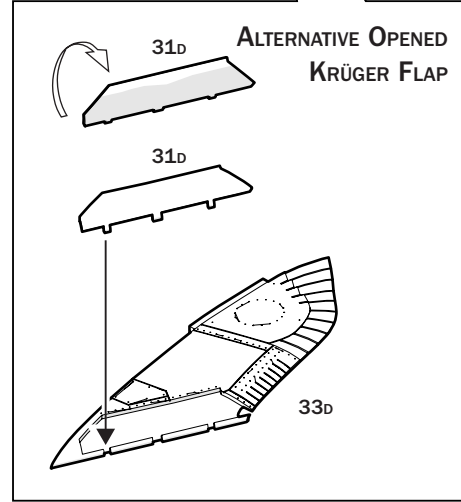
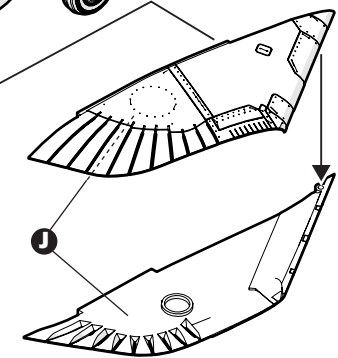
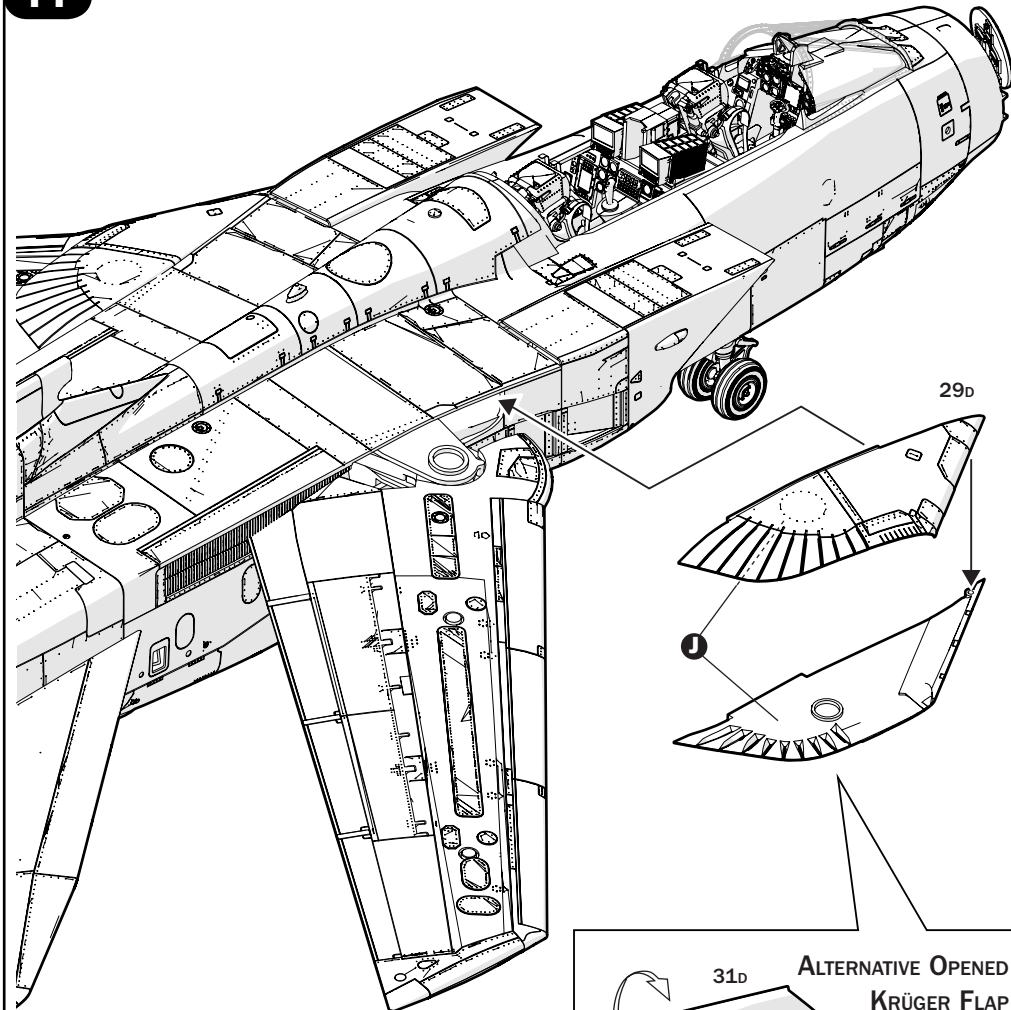


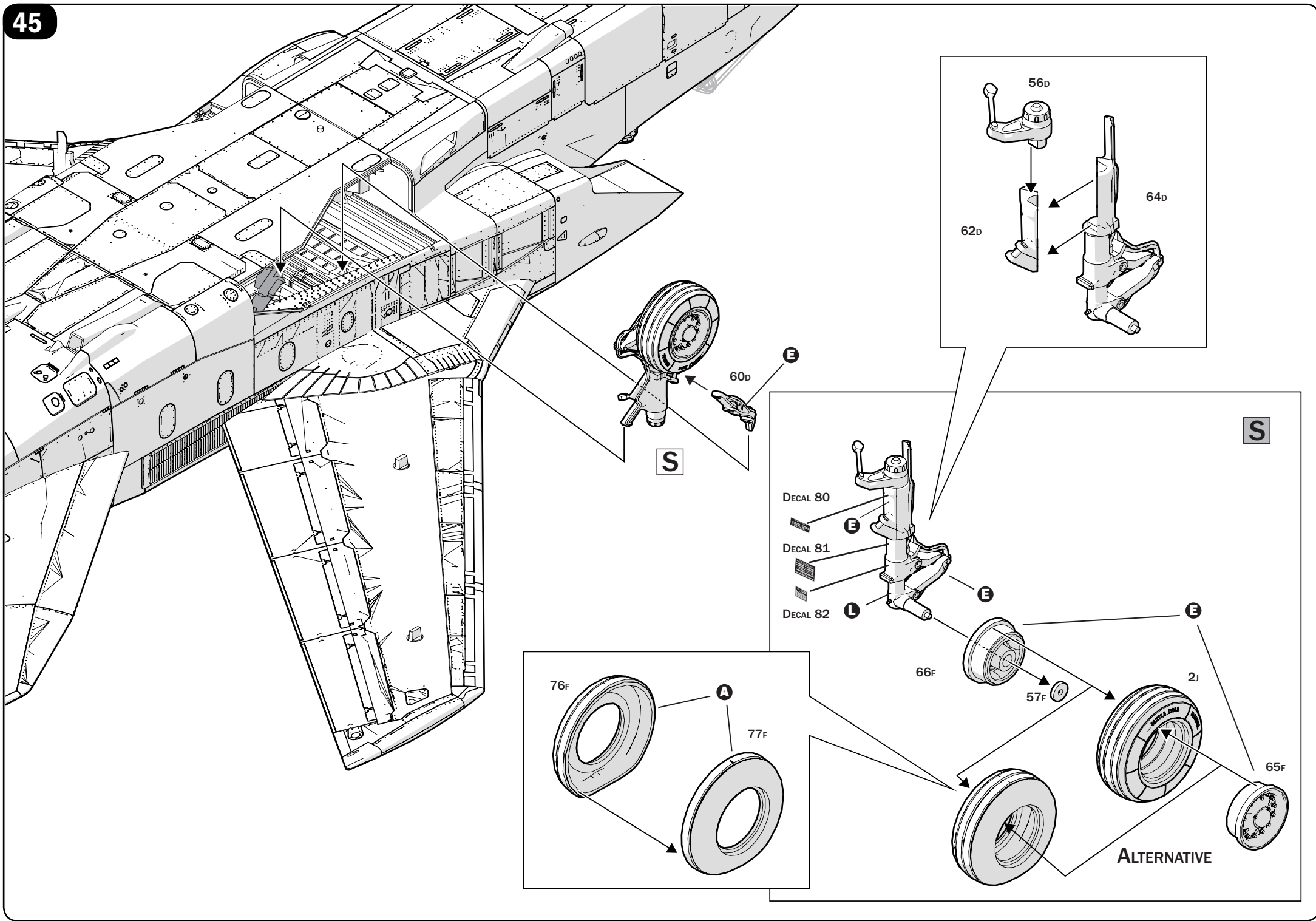


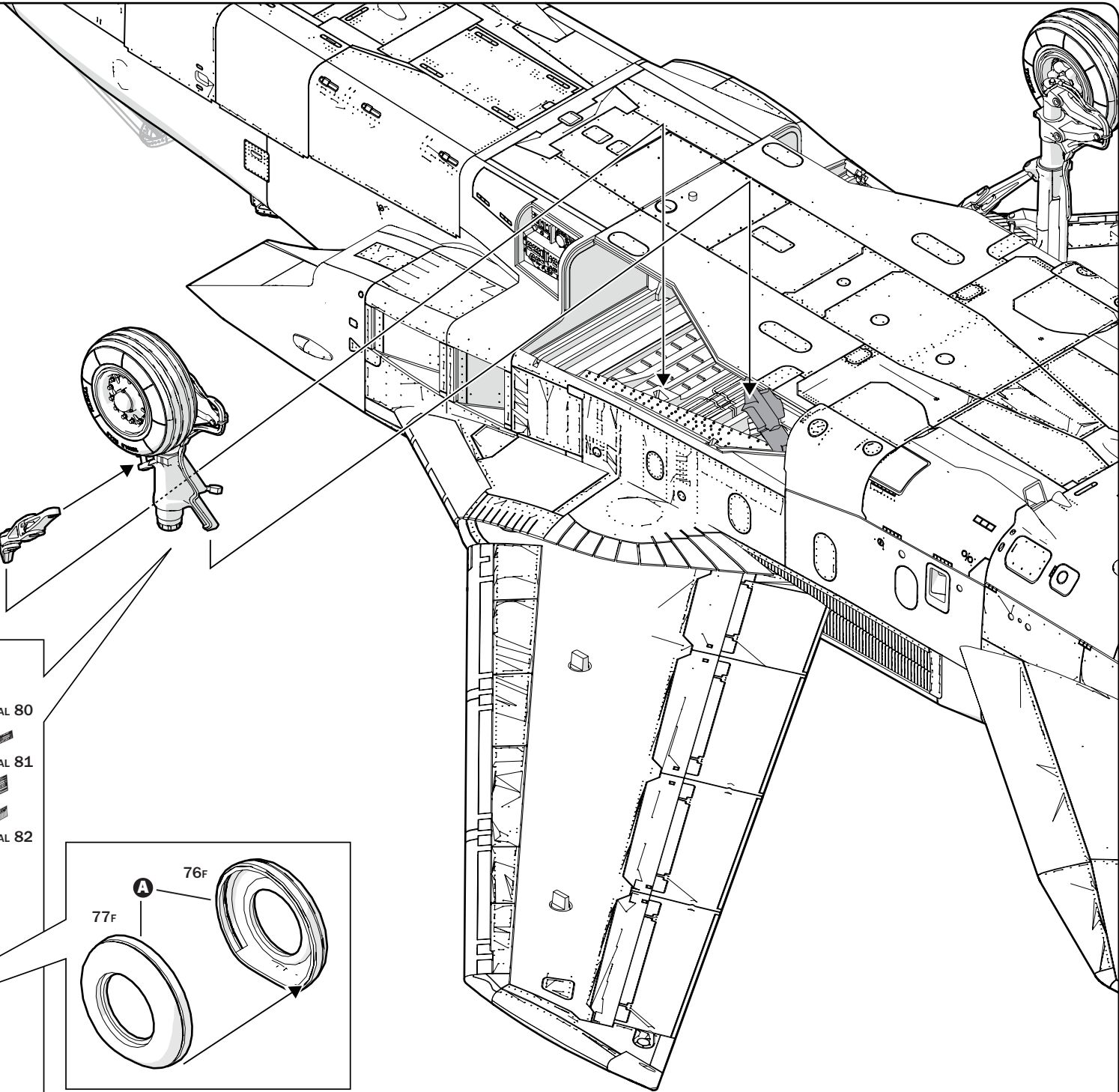
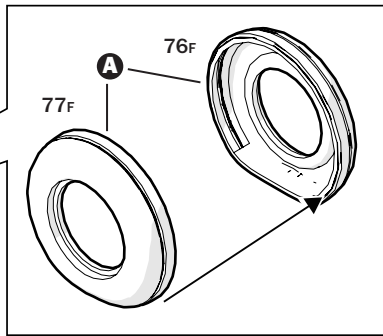
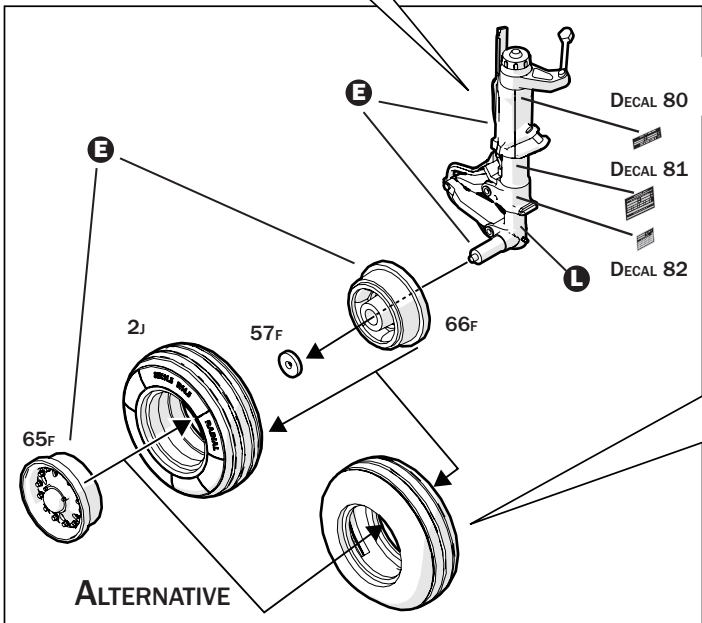
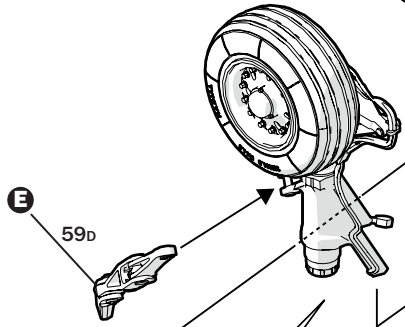
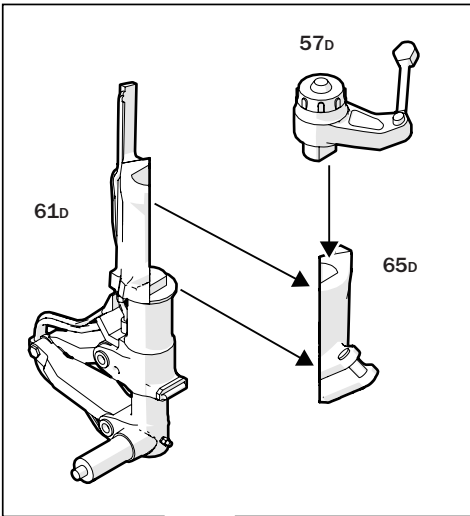
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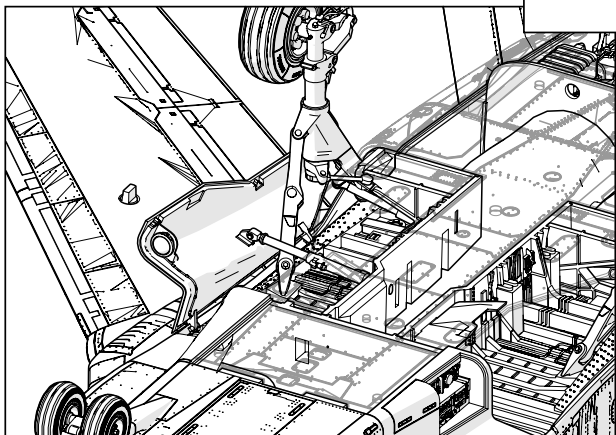
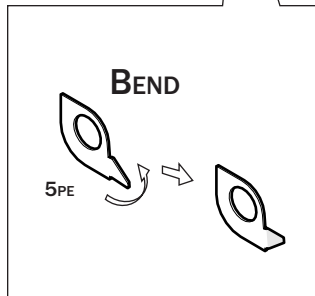
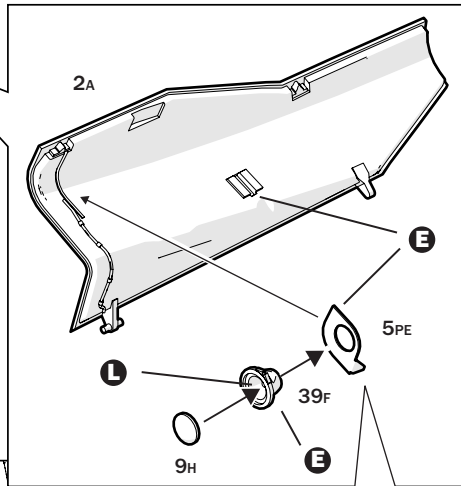
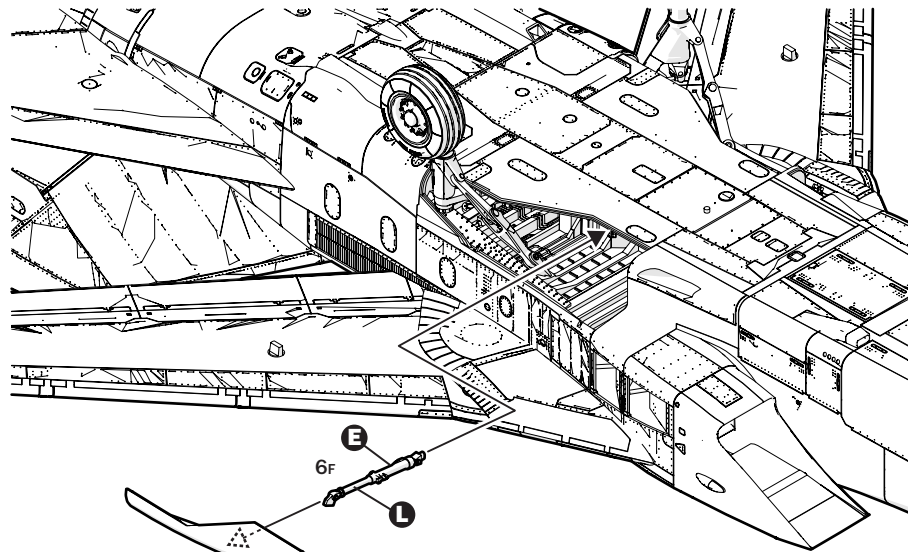
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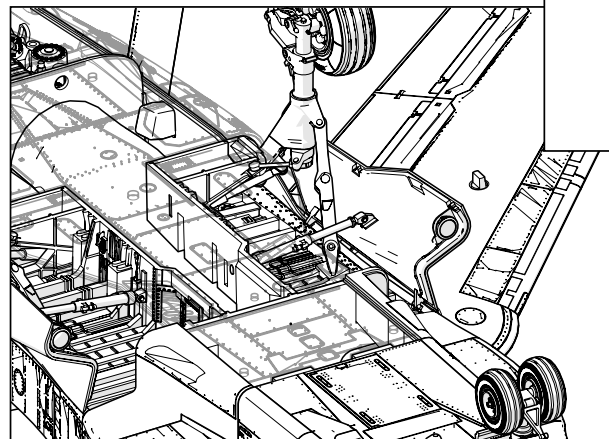
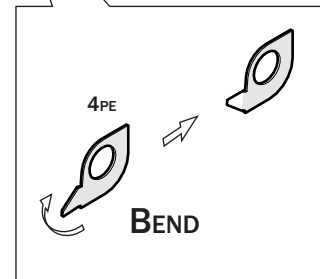
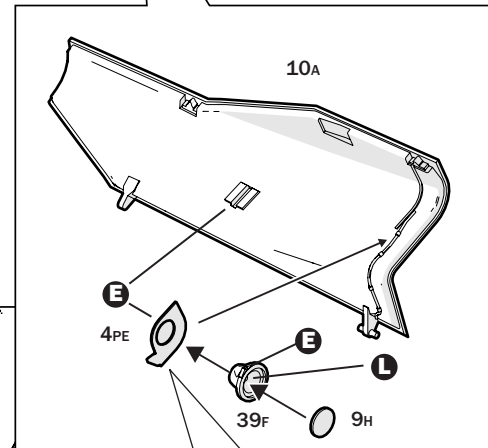
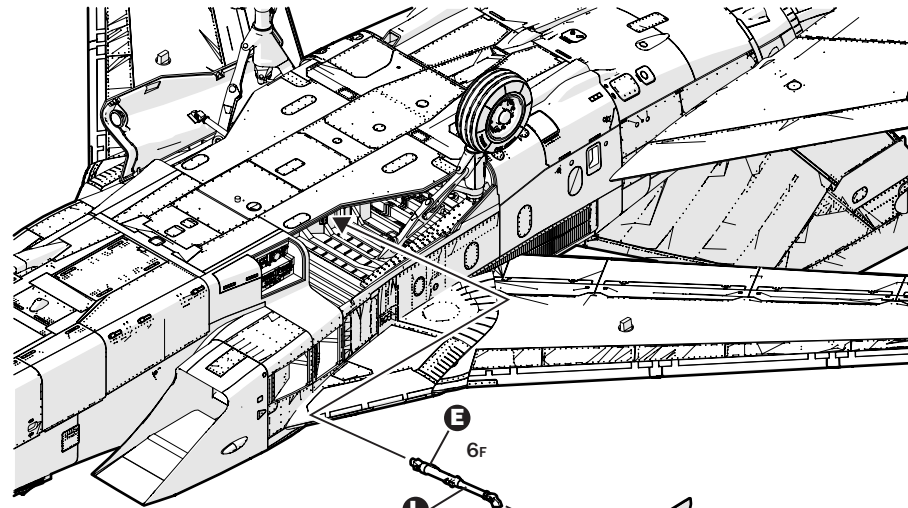




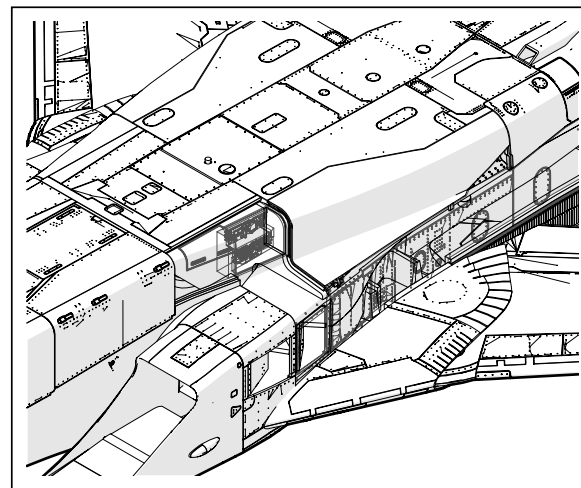
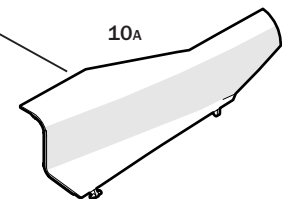
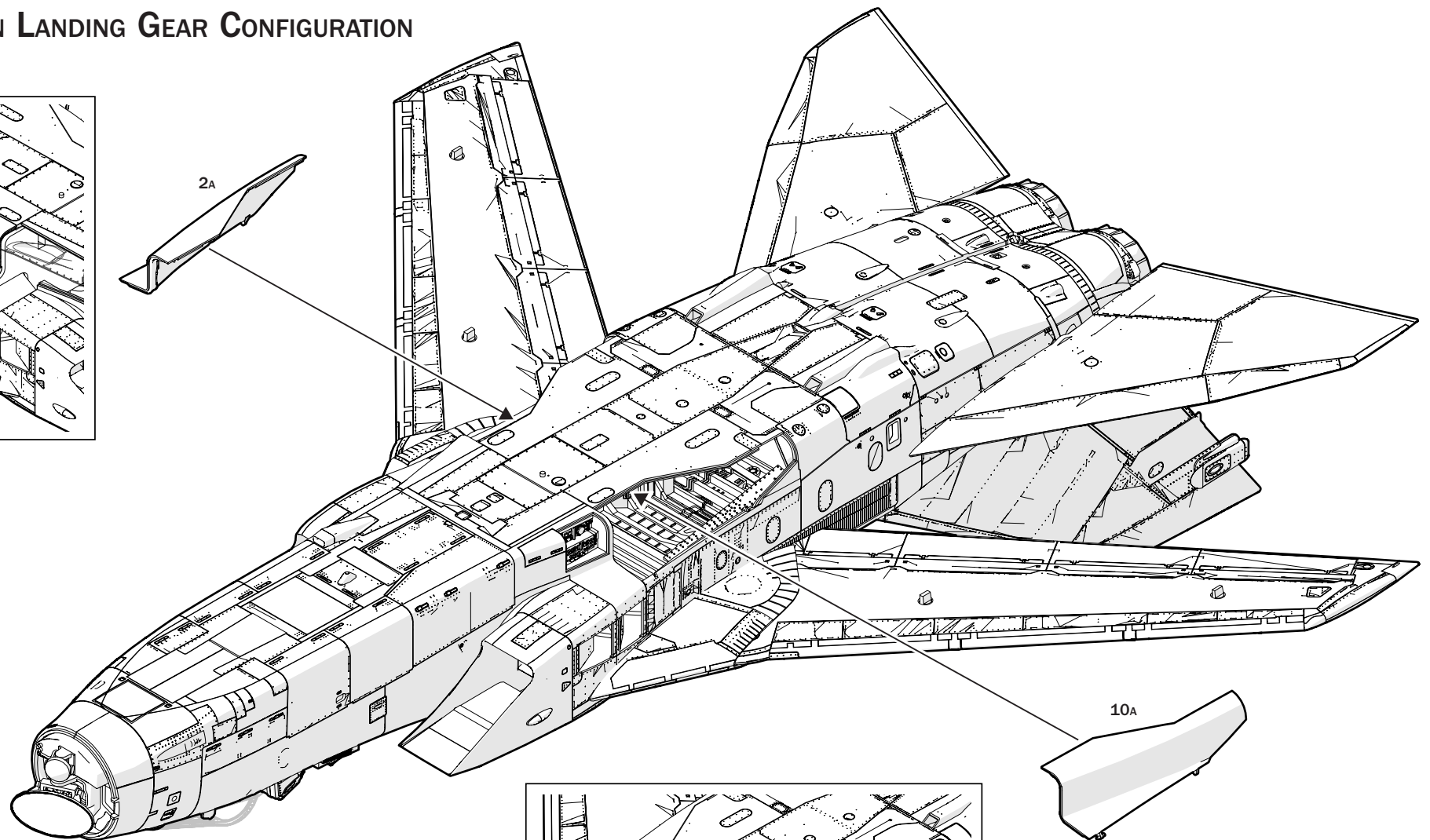
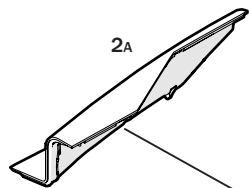
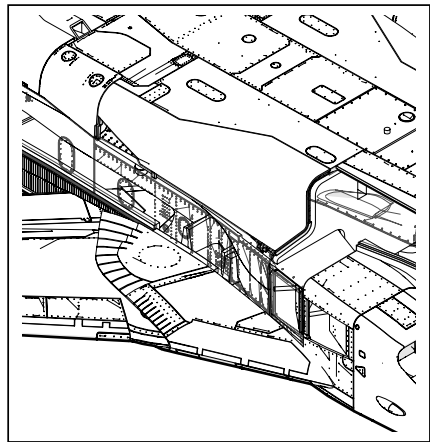
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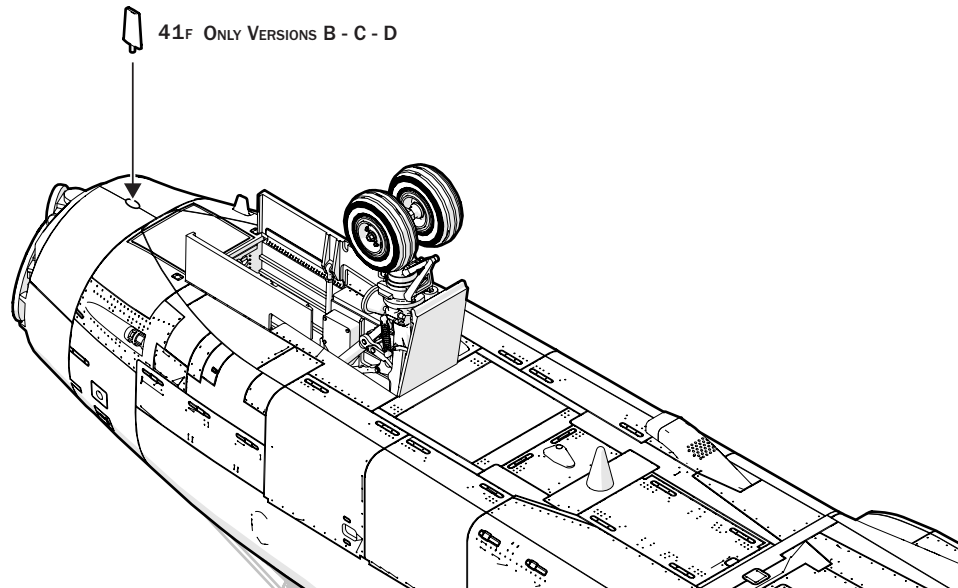
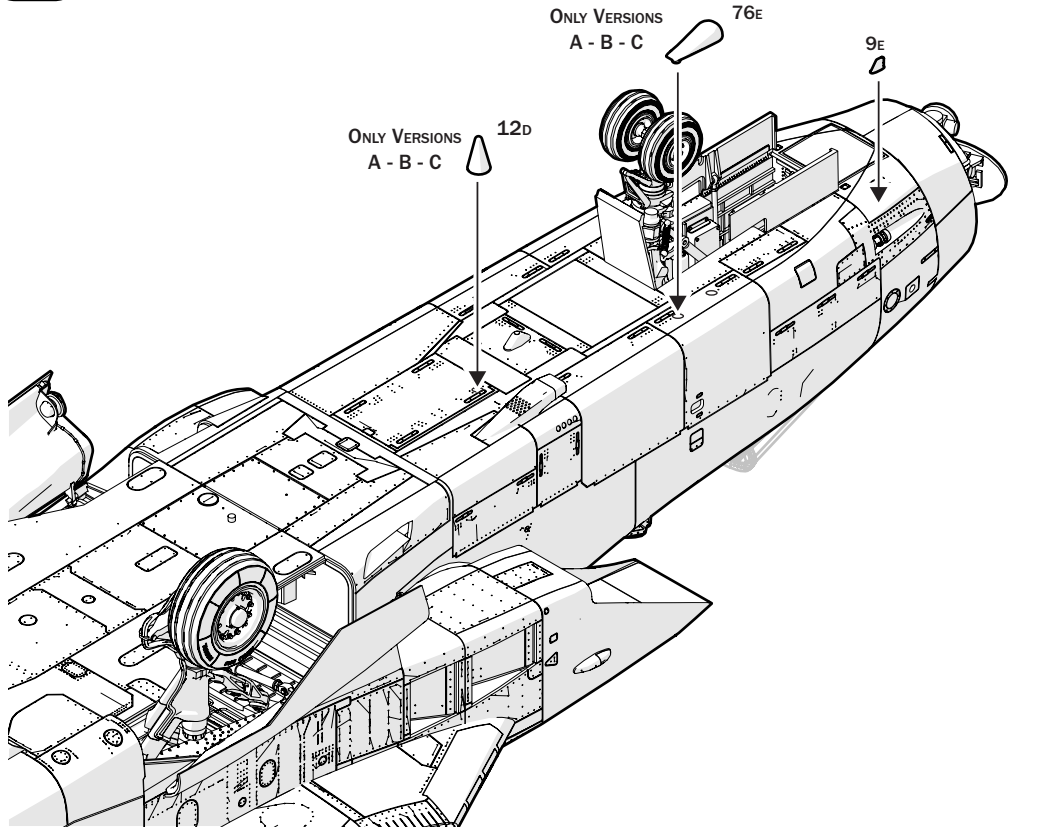
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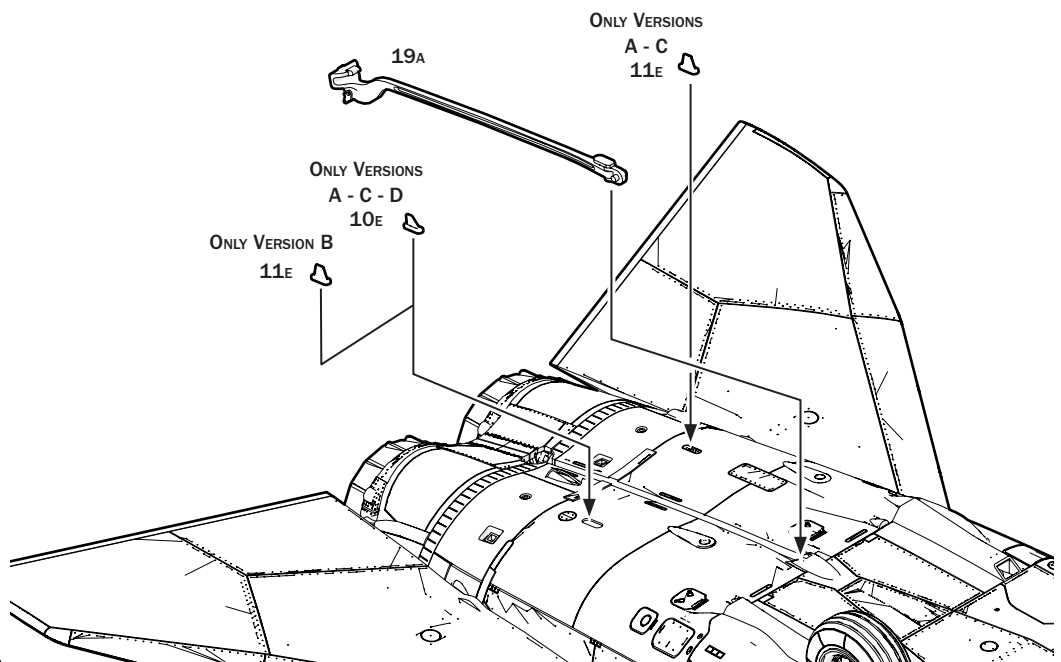
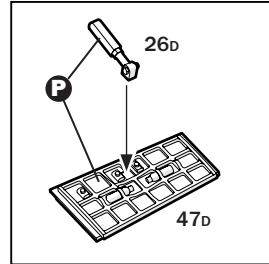
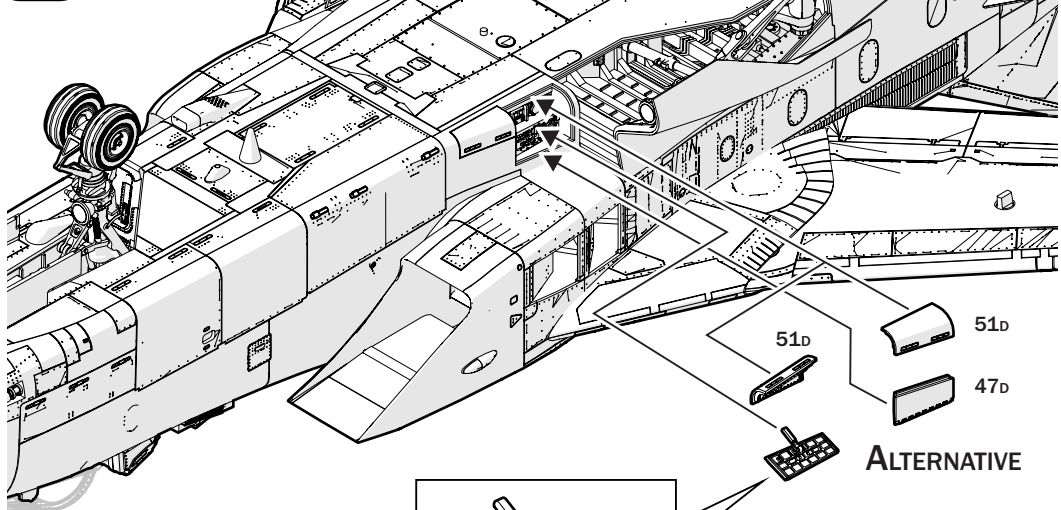
**49** CLOSED MAIN LANDING GEAR CONFIGURATION

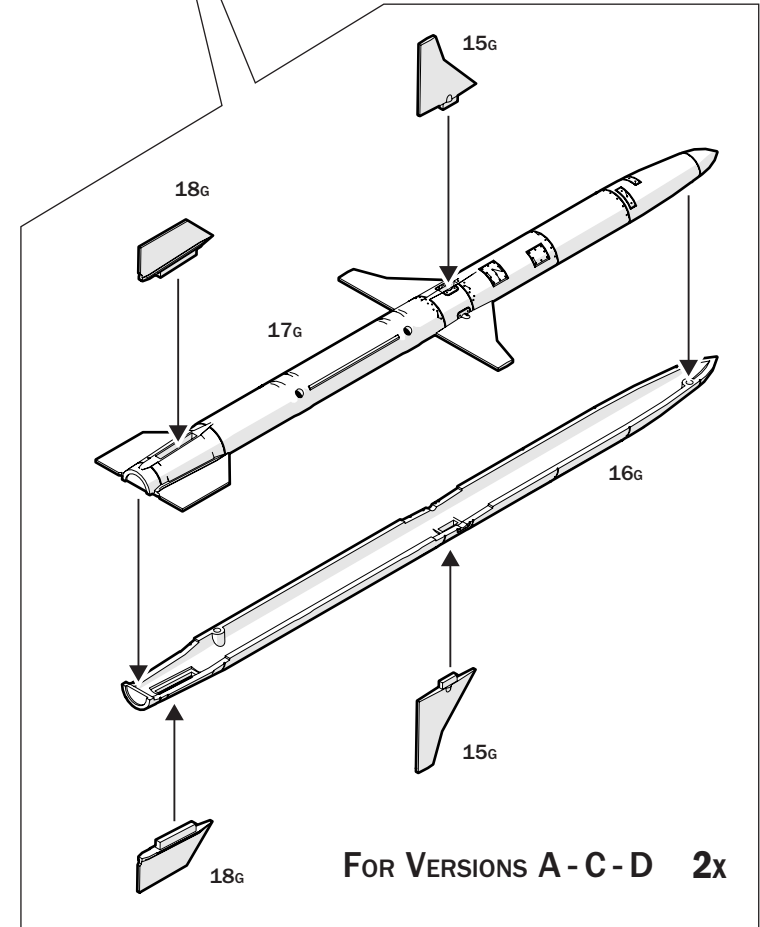
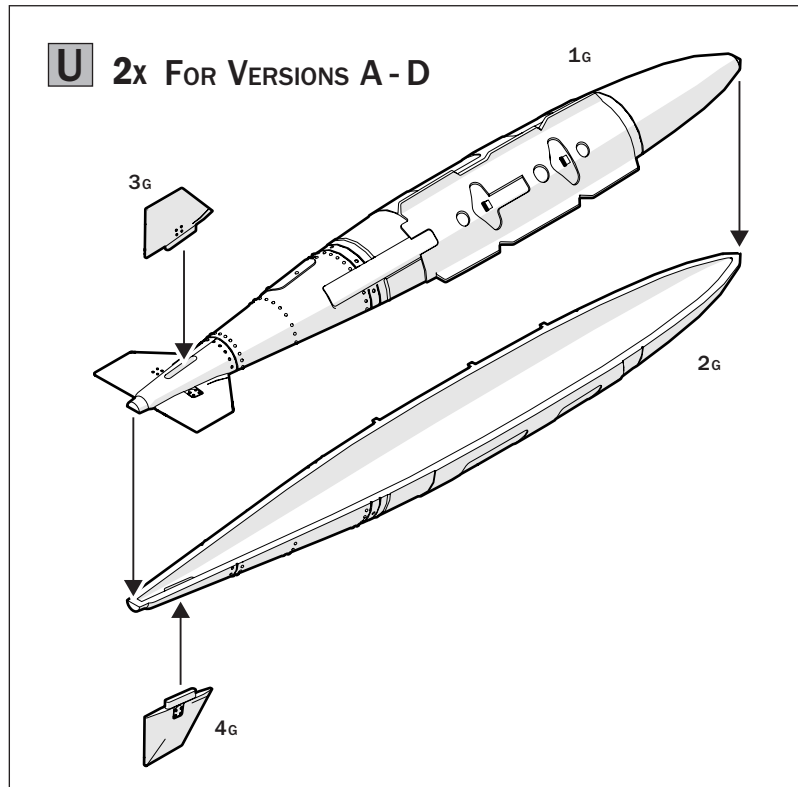
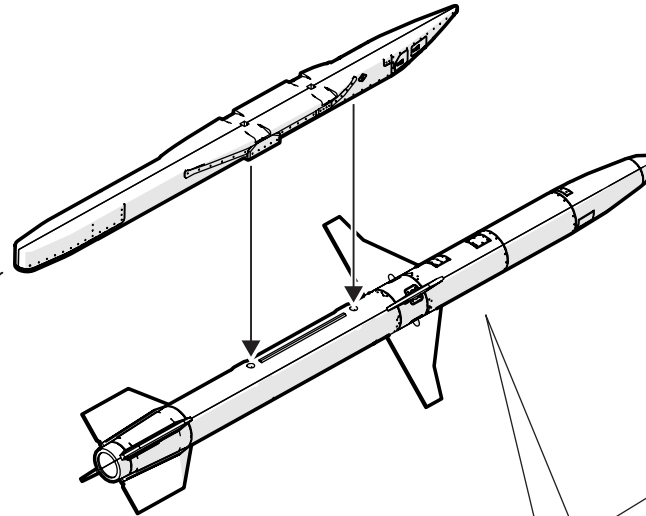
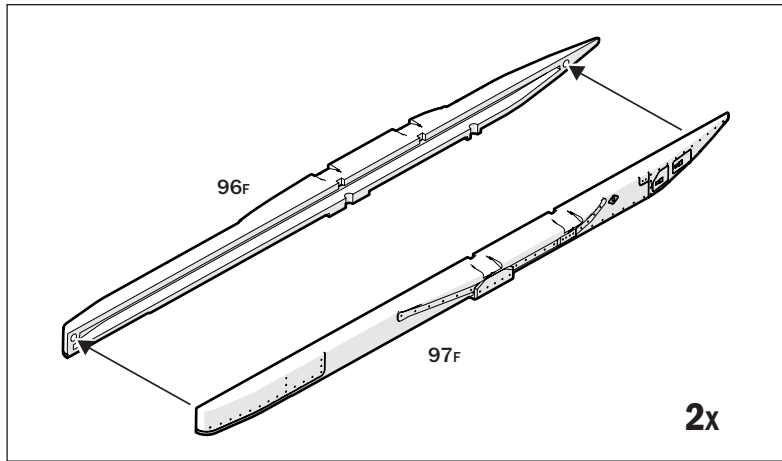


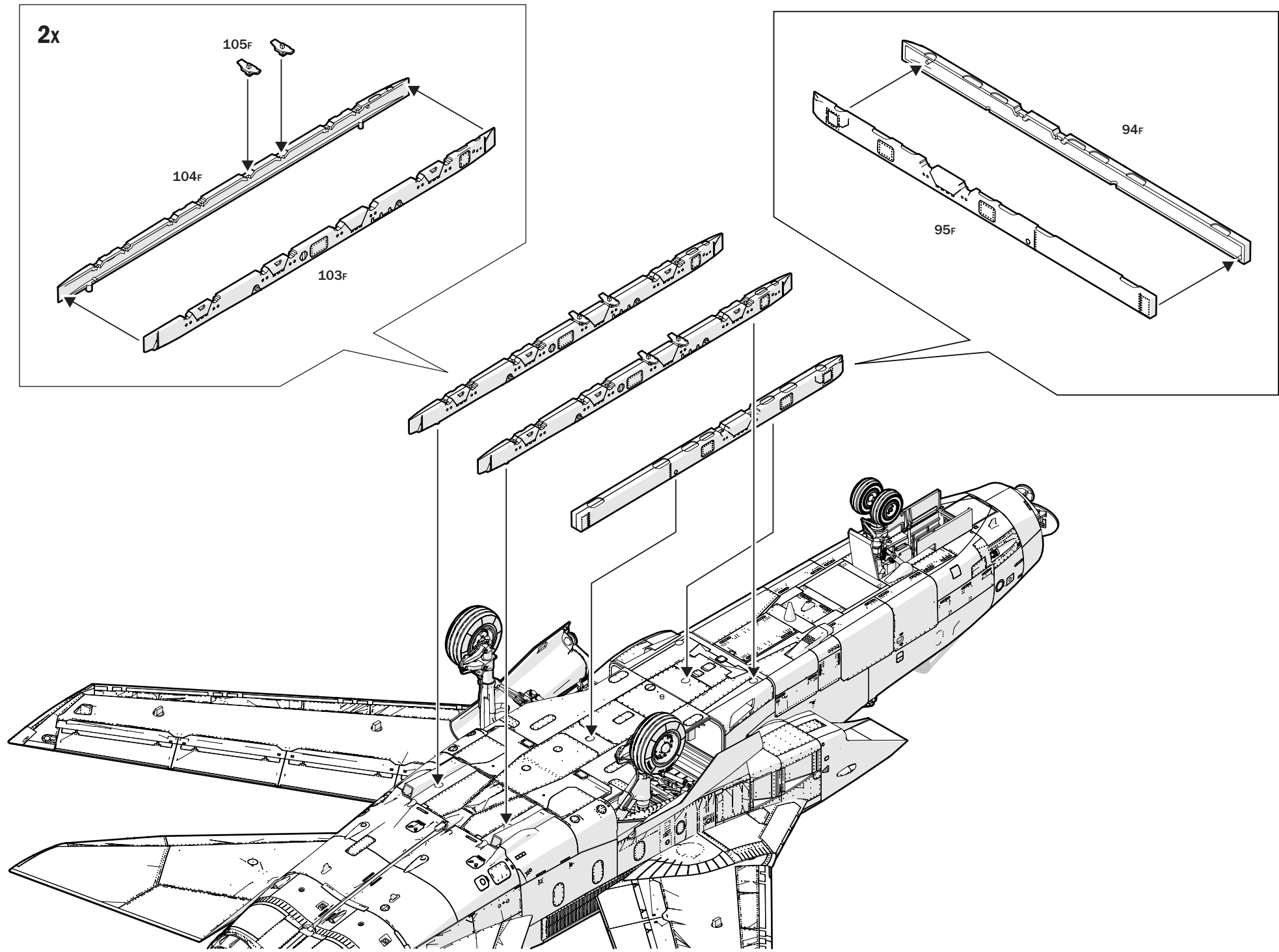
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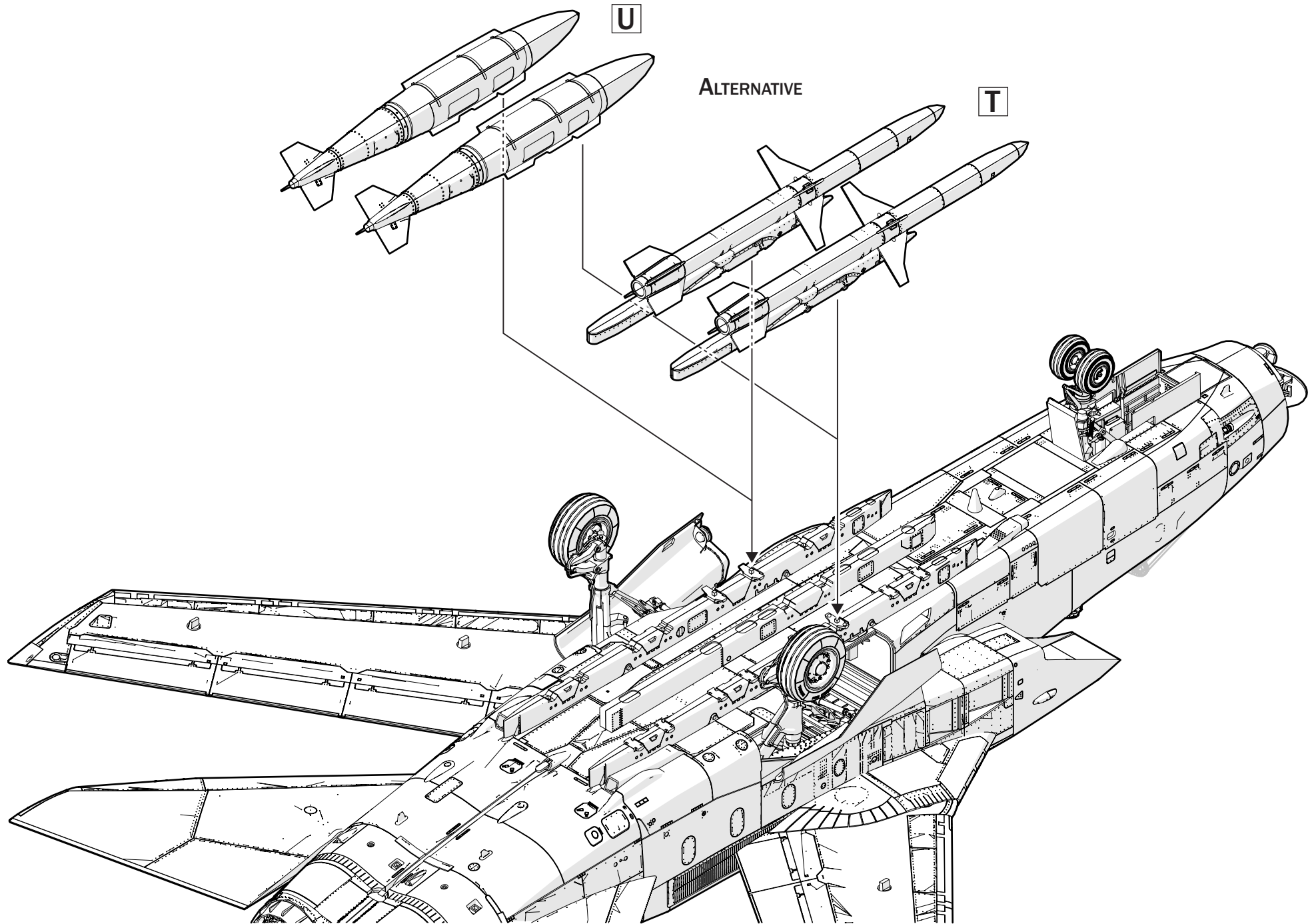
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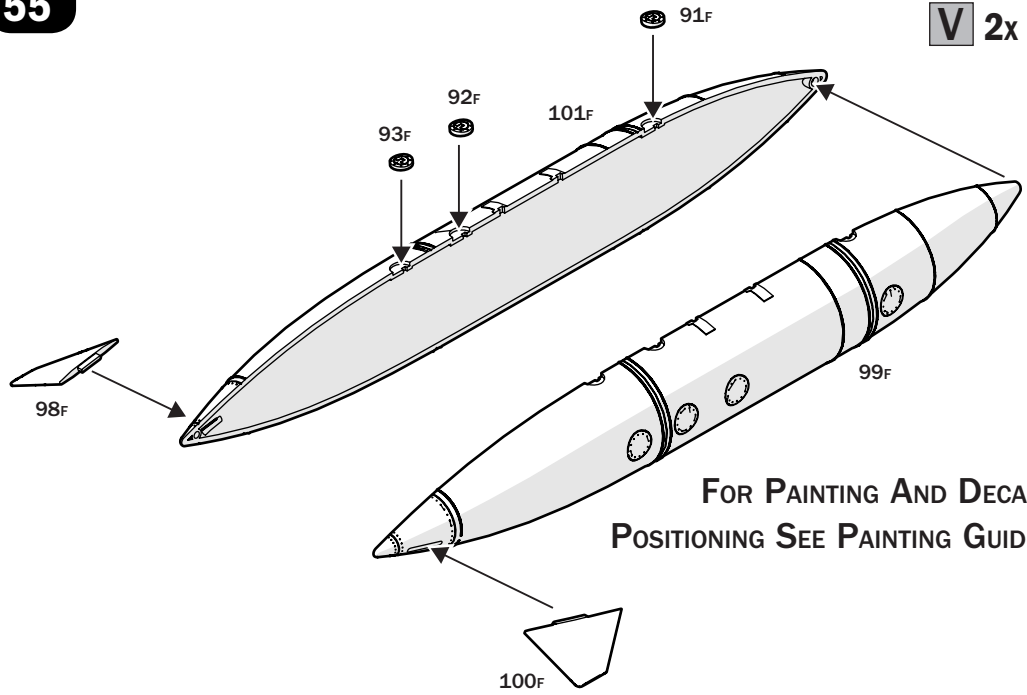








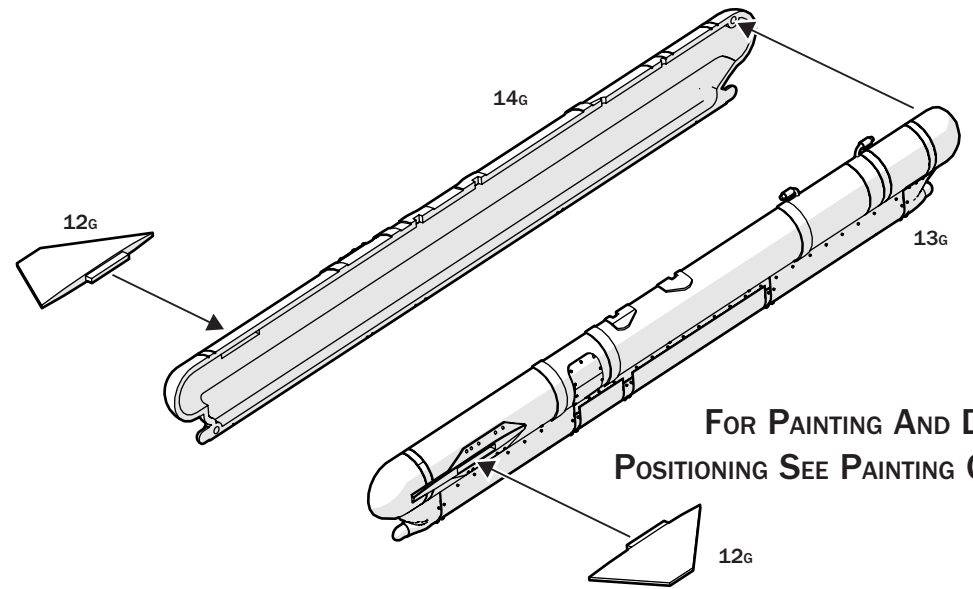




**FOR PAINTING AND DECAL  
POSITIONING SEE PAINTING GUIDE**

**ONLY FOR VERSION D**

**W 2x**

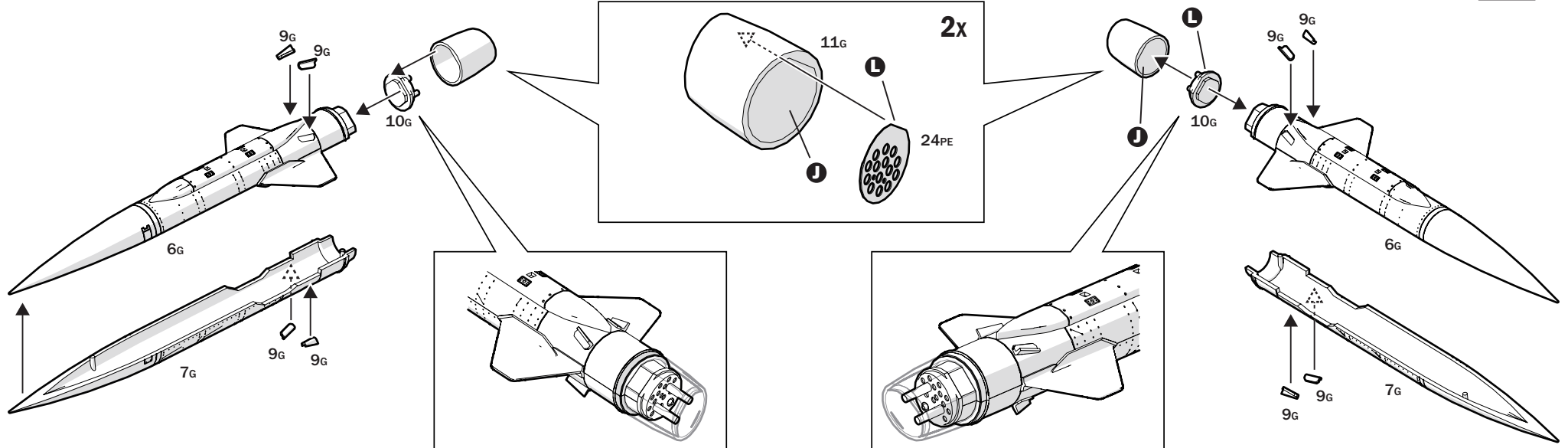


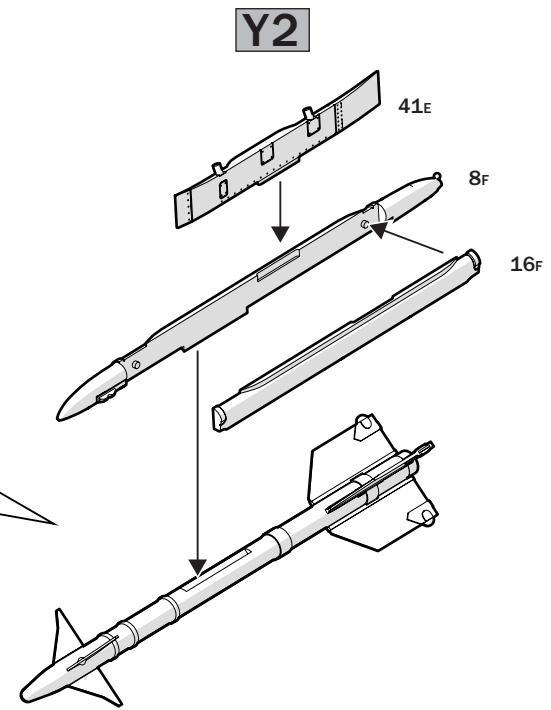
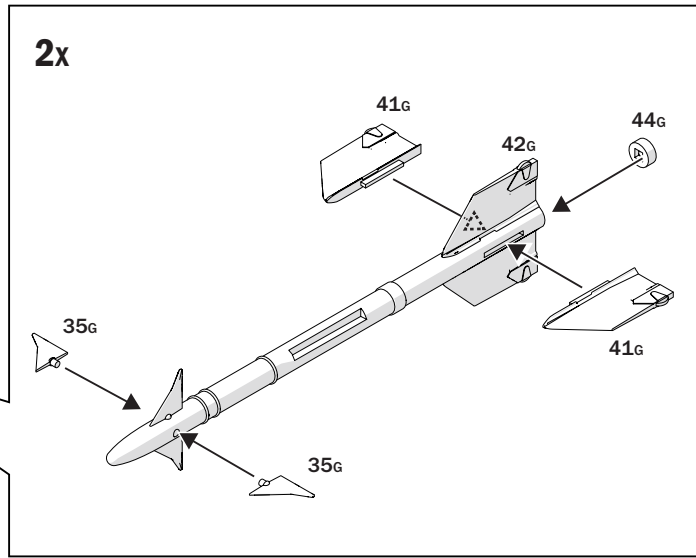
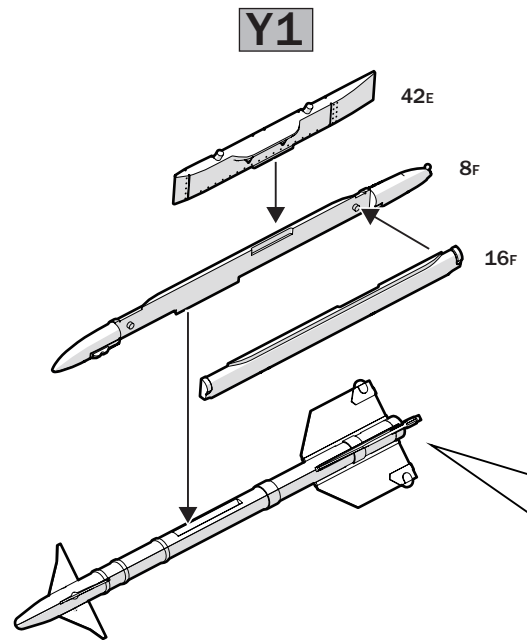
**FOR PAINTING AND DECAL  
POSITIONING SEE PAINTING GUIDE**

**X1 RIGHT SIDE**

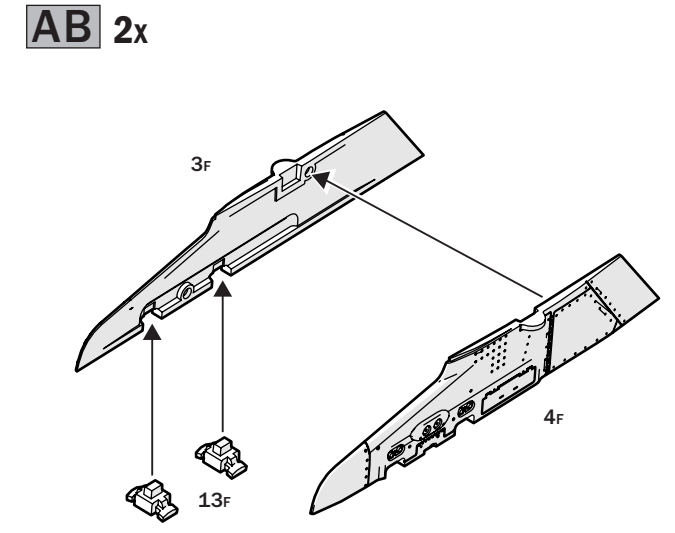
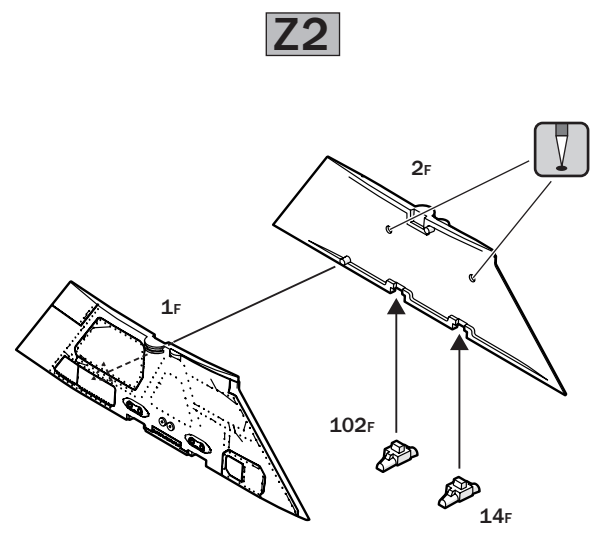
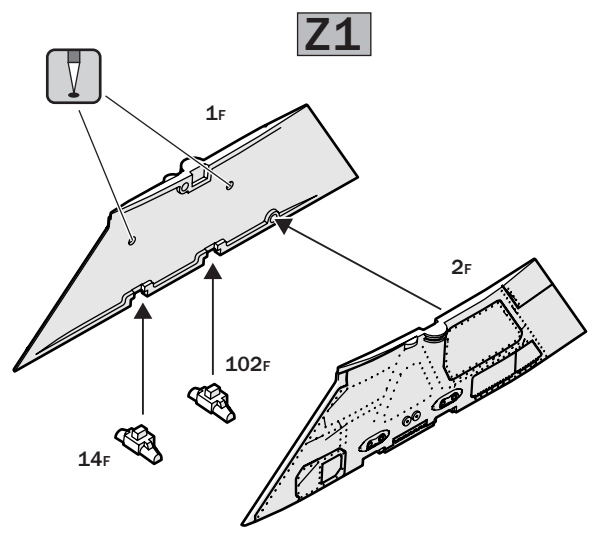
**FOR VERSIONS A - B - C**

**LEFT SIDE X2**



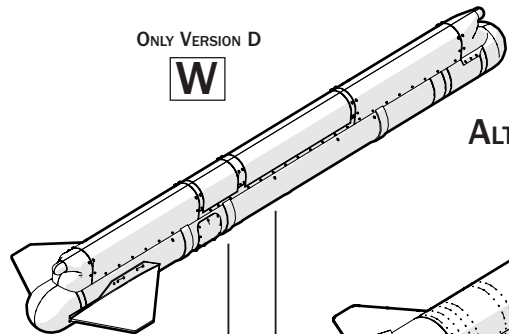


FOR PAINTING AND DECAL  
POSITIONING SEE PAINTING GUIDE

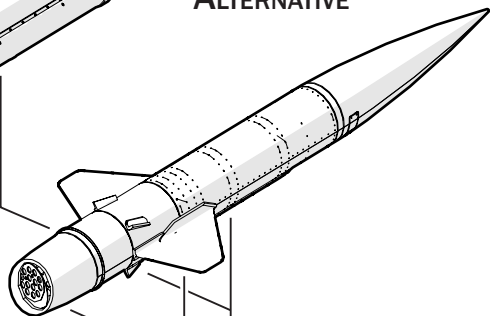


ONLY VERSION D

W

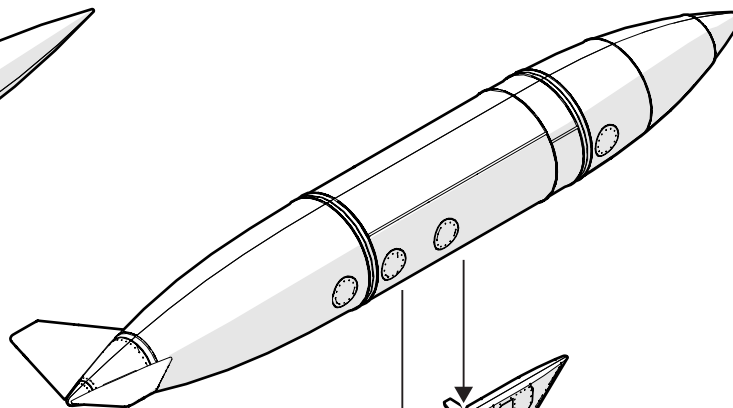


ALTERNATIVE



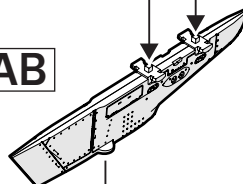
VERSIONS A - B - C

X1

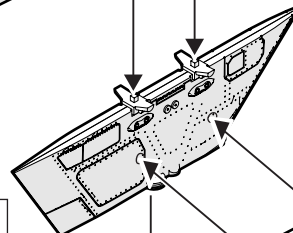


V

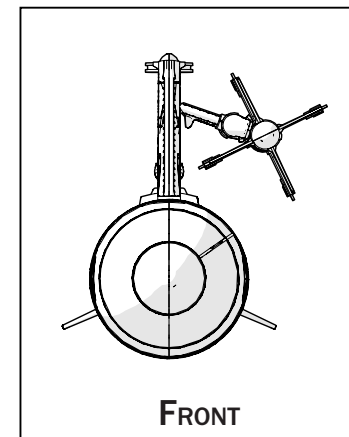
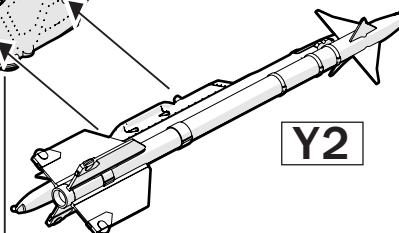
AB



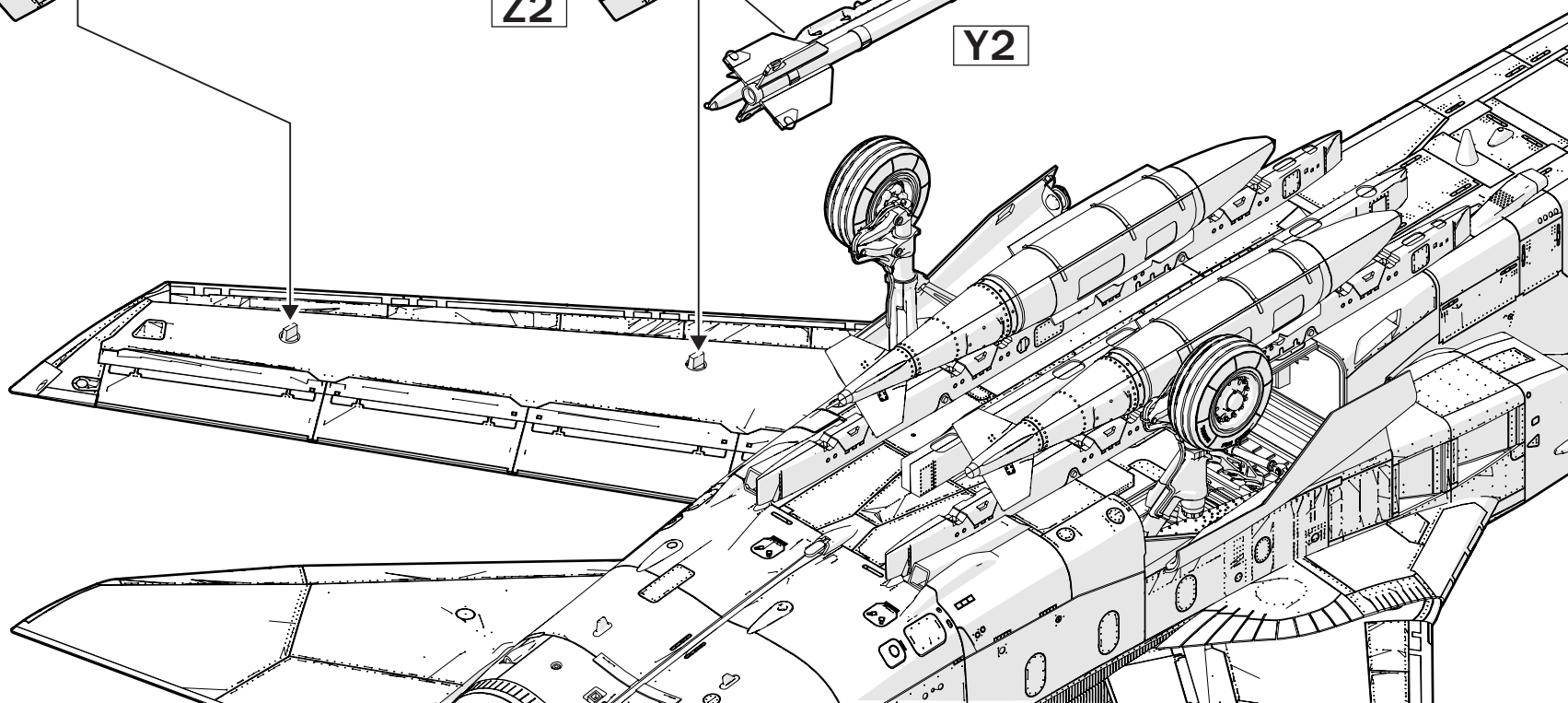
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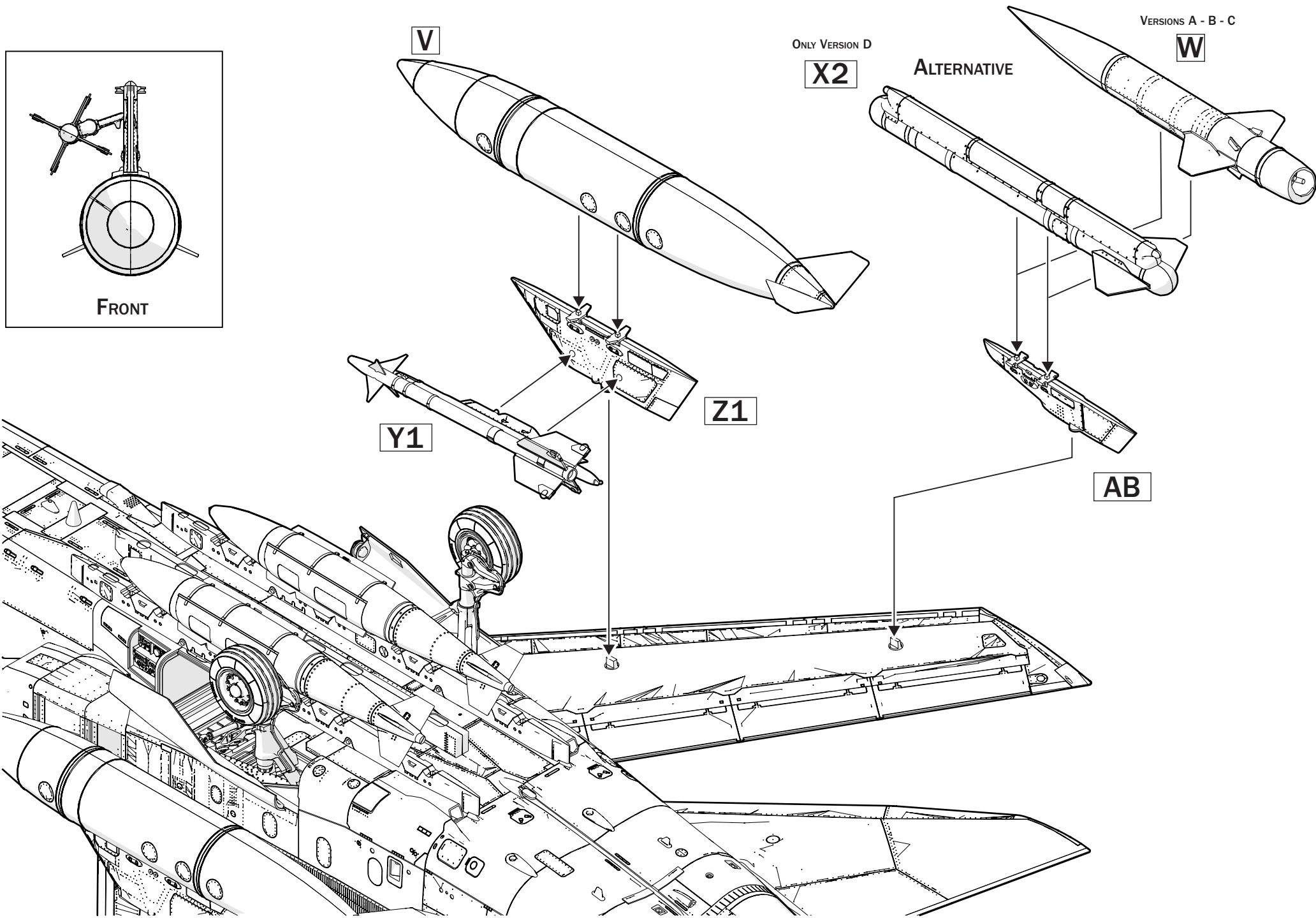
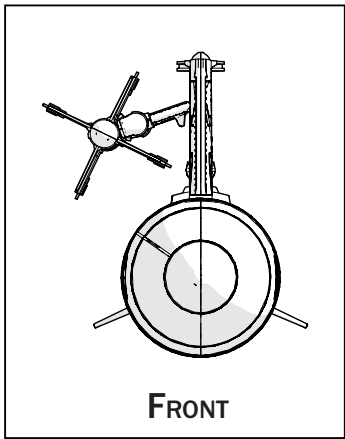


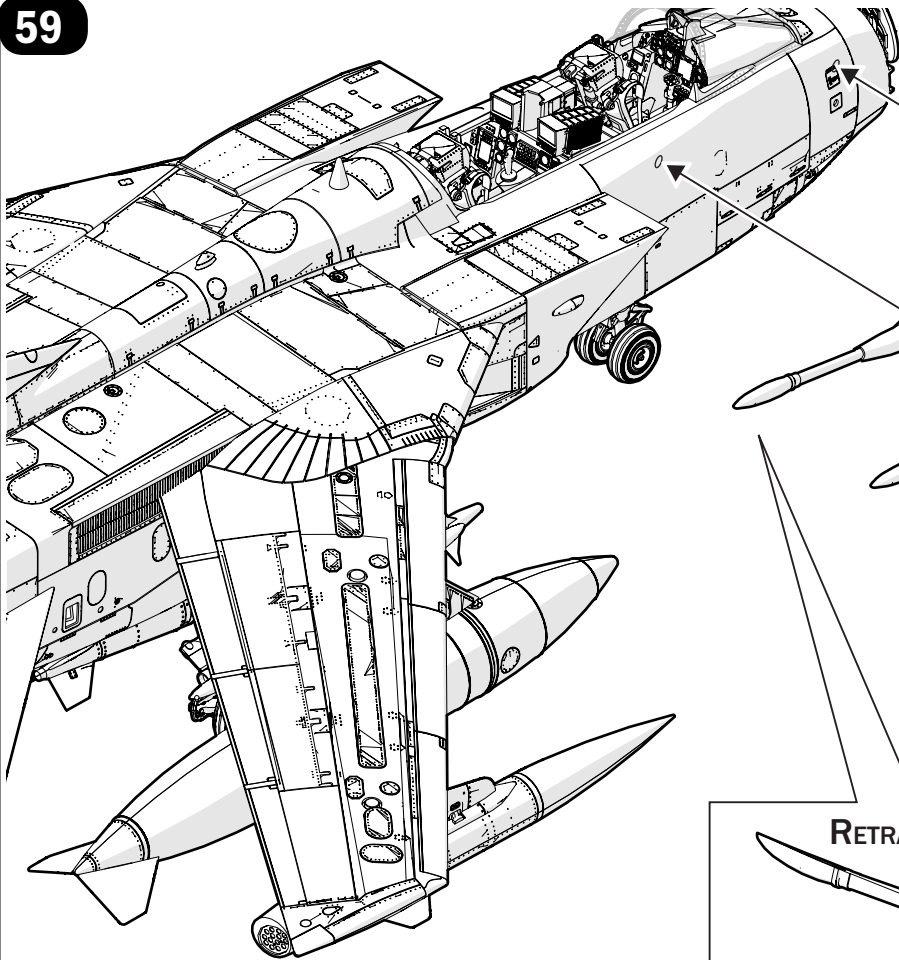
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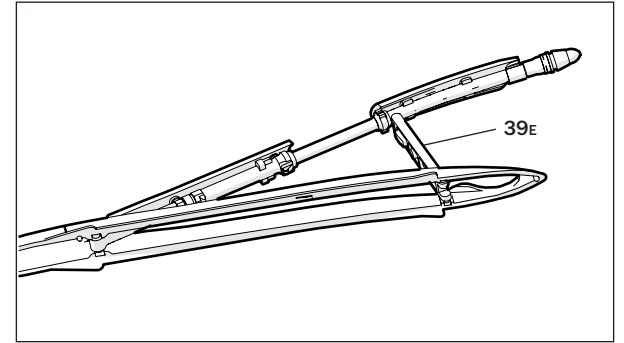
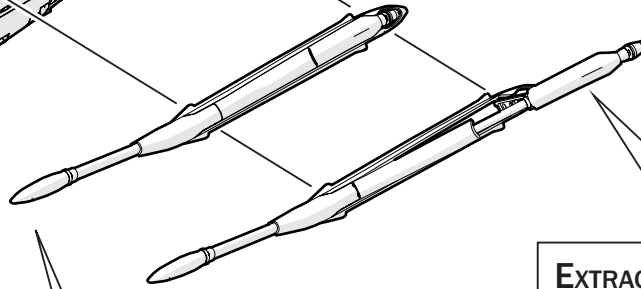
FRONT



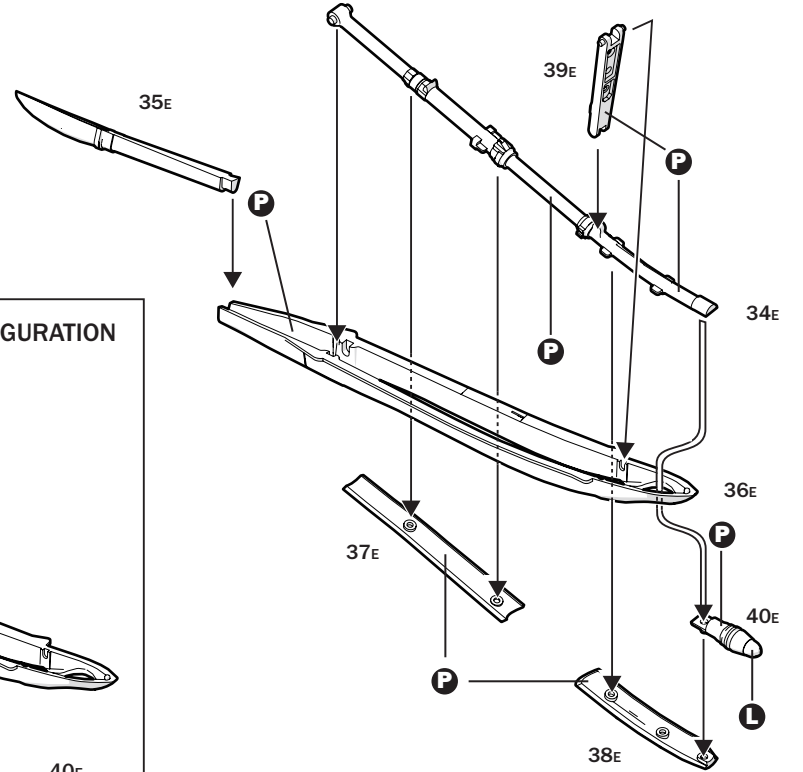




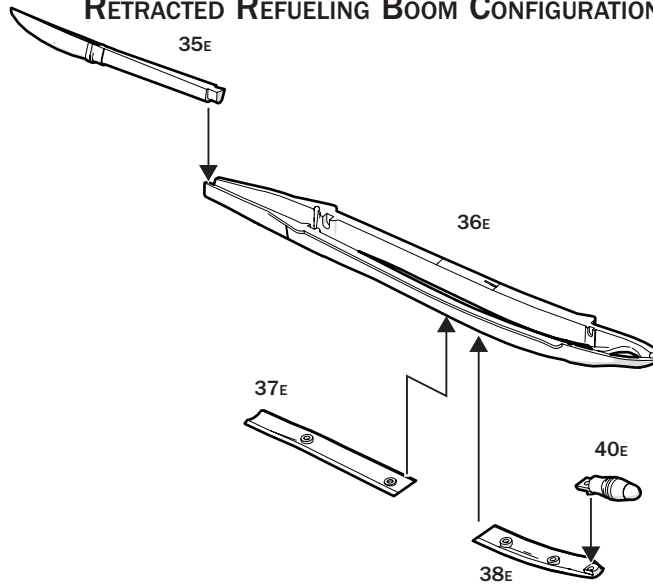
ALTERNATIVE

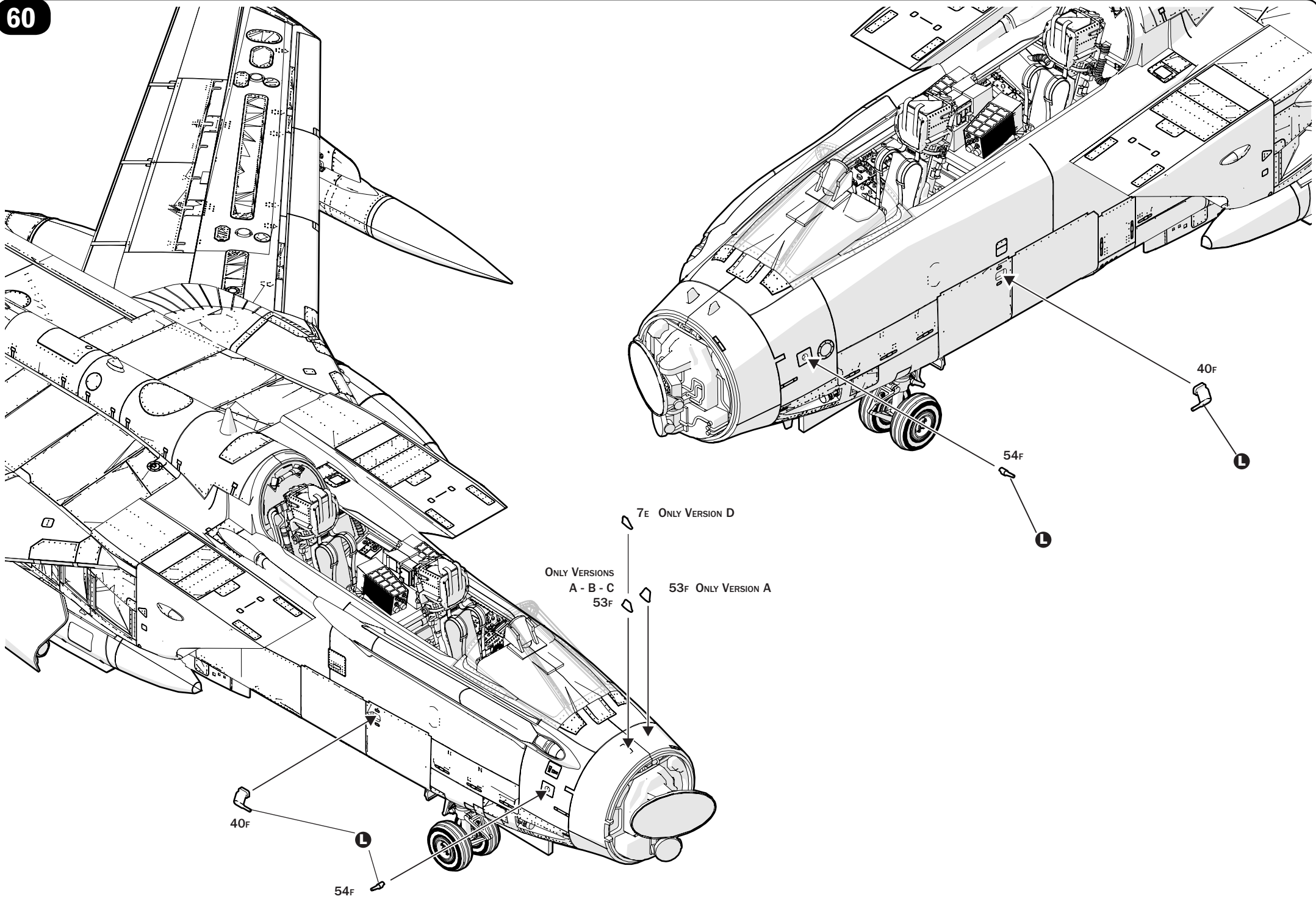


EXTRACTED REFUELING BOOM CONFIGURATION

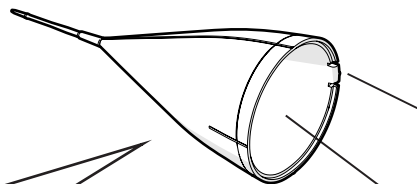
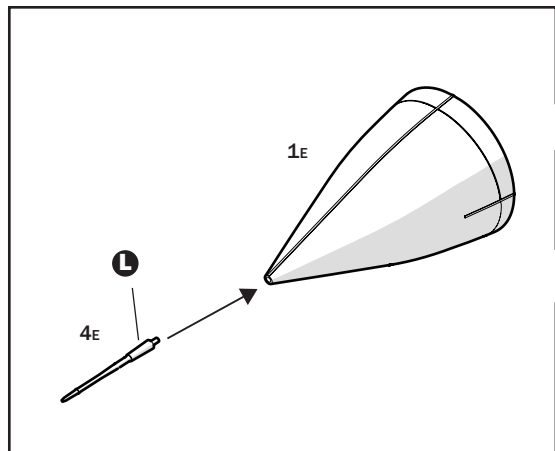
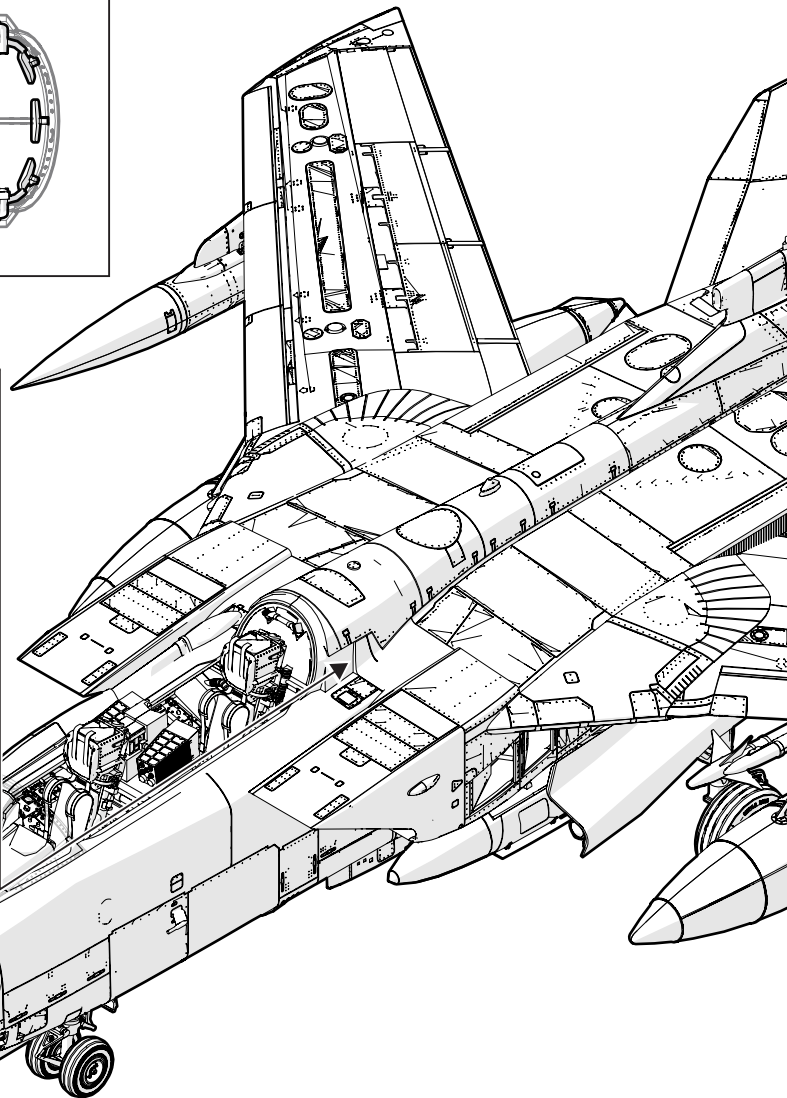
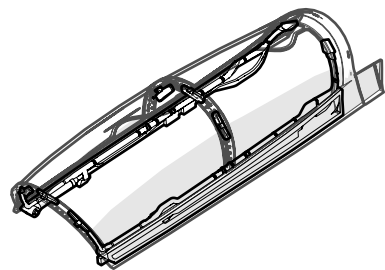
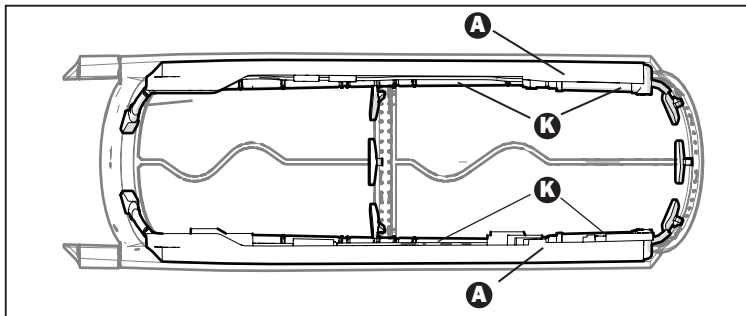
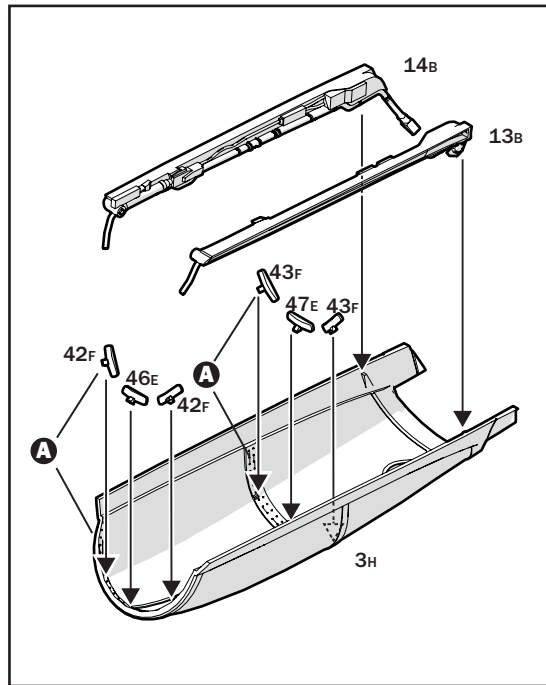


RETRACTED REFUELING BOOM CONFIGURATION

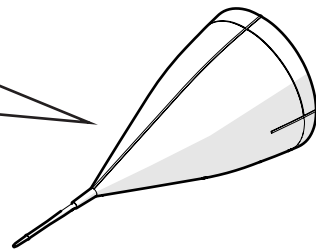




CLOSED CANOPY CONFIGURATION

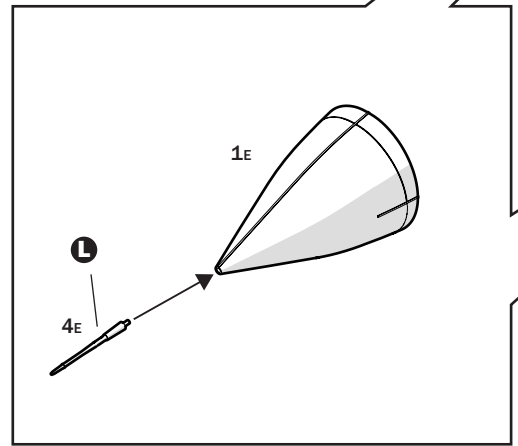
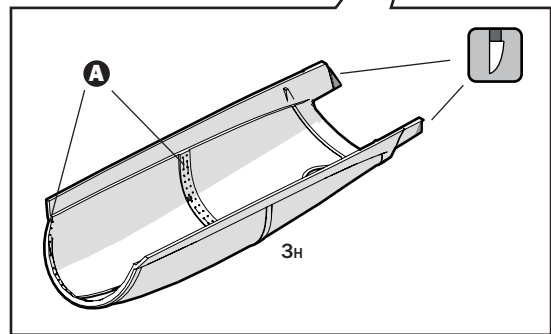
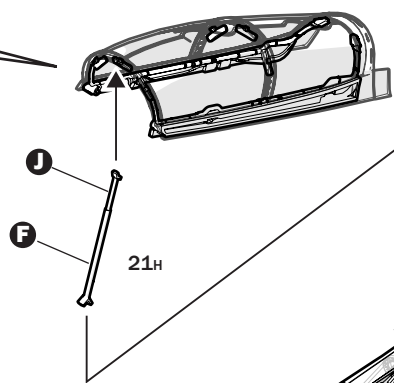
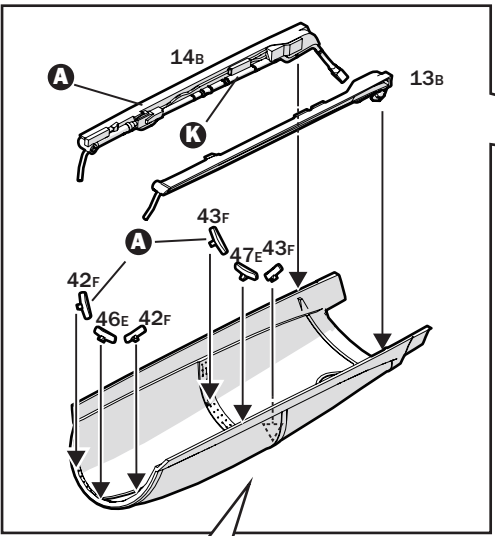


ALTERNATIVE





OPENED CANOPY CONFIGURATION



ALTERNATIVE

