

SAAB AJ 37 Viggen 'Strike Fighter'

Historie

CZ

SAAB 37 Viggen je letoun, který předběhl svou dobu. Neortodoxní řešení, zvolená jeho konstruktéry, nejen umožnily Viggenu splnit požadavky na něj kladené, ale v některých parametrech je předčít. Švédské letectvo objednalo Viggen v několika verzích, s tím, že základní provedení letounu tvořilo univerzální platformu, která doplněná o speciální vybavení, umožňovala použití v několika rolích.

První ze sedmi stavěných prototypů vzletl 8. února 1967, řízen pilotem E. Dalsrömem. Pohon zajišťoval motor Volvo RM8, licenční civilní motor Pratt & Whitney JT8D doplněný o přídavné spalování a obraceče tahu. To, stejně jako koncepce dvojitých delta křídel přispívalo k vynikajícím vlastnostem Viggenu při startech a přistáních na malých přistávacích plochách. Pro lepší manipulaci s letouny po přistání umístění do hangáru či jejich lepšímu zamaskování při operacích z nestandardních ploch dostal Viggen sklopnu svislou ocasní plochu. Elektronické vybavení bylo ve své době jedno z nejlepších na světě. Viggen byl první stroj se zabudovaným počítačem s integrovanými obvody. Do výzbroje švédského letectva byla jako první zařazena verze AJ 37 Viggen, kterou postupně následovaly verze SK 37 - dvoumístný cvičný stíhací letoun, SF 37 - průzkumná verze s fotografickými přístroji v upravené přidi, SH 37 - protilodní verze s odlišným elektronickým vybavením a protilodní výzbrojí. Po cca deseti letech od zařazení první verze byla vyrobena druhá generace Viggenu, stíhací verze JA 37. Ta dostala modernizované elektronické vybavení a silnější motor v nepatrně prodlouženém trupu. Modernější elektronické vybavení dostaly i starší verze, přestavbou vznikaly stroje AJS 37, případně ASFS a ASHS 37. Část dvoumístných cvičných strojů byla přestavěna na verzi pro výcvik elektronického boje SK 37E. Švédské letectvo vyřadilo poslední Viggeny v roce 2007. Export Viggenu se nezdařil, většinou z politických důvodů. Mezi největší zájemce patřila např. Indie, ale zájem projevovaly i skandinávské země či Japonsko.

délka: 16,30 m, rozpětí: 10,60 m, max. rychlosť: 2145 km/h, dolet standardní: 1000 km/maximální: 2000 km, dostup: 18 300 m, rychlosť stoupání: 100 m/s

History

GB

The SAAB AJ 37 Viggen was an aircraft ahead of its time. Its designers used an unorthodox construction which enabled the plane to meet all requirements which had been laid on it and in some parameters even surpass them. The Swedish Air Force ordered several various versions of the Viggen jet fighter, its basic design formed an universal platform which, using a specialized equipment, enabled the plane to be used for different roles.

The first of seven prototypes took off for its maiden flight on February 8, 1967 with E.Dalsröm at the controls. The aircraft was powered by Volvo RM8 turbofan, a licence-built variant of Pratt & Whitney JT8D with an afterburner and thrust-reverser which, in addition to a double-delta wing design, enhanced the aircraft's performance during the take-offs and landings on short airstrips. The tailfin was designed as foldable to make it easier to store in hangars, it also helped with handling the aircraft after the landing and with hiding at the emergency airstrips. The avionics of the type was one of the best in the world in the time, Viggen was the first type to be equipped with a computer with integrated circuits.

The first version of the Viggen which saw service with the Flygvapnet was the AJ 37 strike fighter, followed consequently by the SK 37 two-seat trainer, SF 37 reconnaissance version with cameras in redesigned nose section and anti-shipping SH 37 with different avionics and equipped with anti-shipping weapons. Ten years after the first version of the SAAB had entered service, a second generation of the Viggen came into being, which was the JA 37 fighter version. More modern avionics was used and also a more powerful engine in a slightly longer fuselage. The earlier versions became to be equipped with the modernised avionics too and this way the AJS 37, respectively ASFS and ASHS 37 versions were created. Some of the two seat airframes were converted to the SK 37 E electronic warfare trainers.

The last of the Viggens were phased out in 2007. Mainly for political reasons, no Viggen has ever been exported to another countries, although India, Japan and Scandinavian countries showed some interest in the type.

Lenght: 16.30 m, Wingspan: 10.60 m, Max. speed: 2,145 km/h, Standard Range: 1,000 km/ Max. Range: 2,000 km, Ceiling: 18,300 m, Rate of Climb: 100 m/s

Plastic Parts

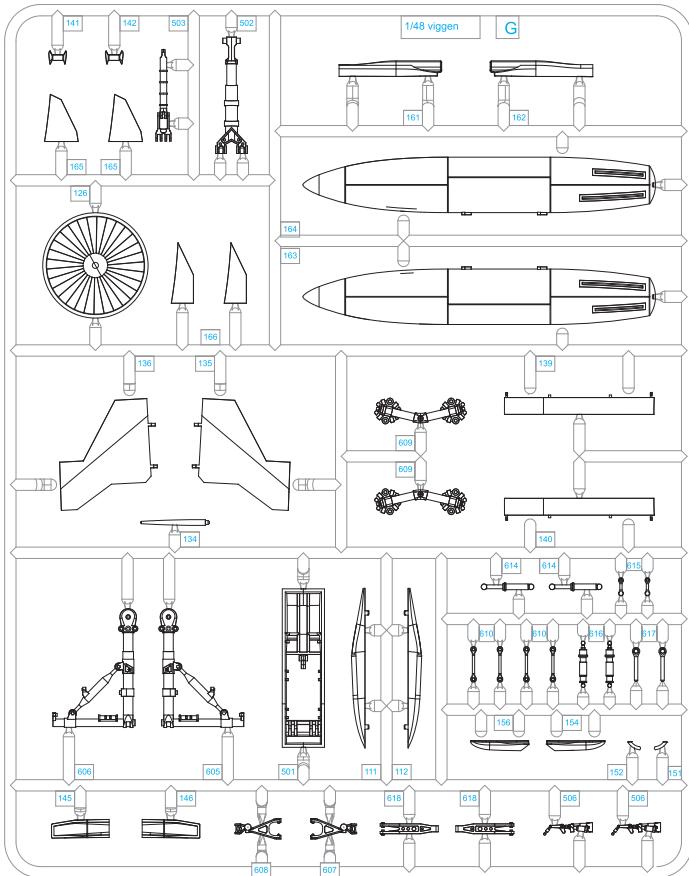
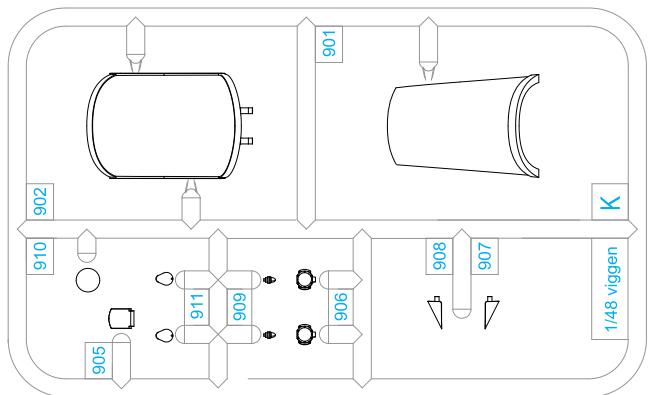
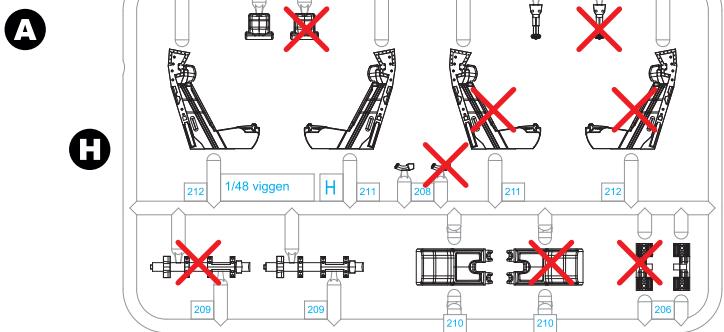
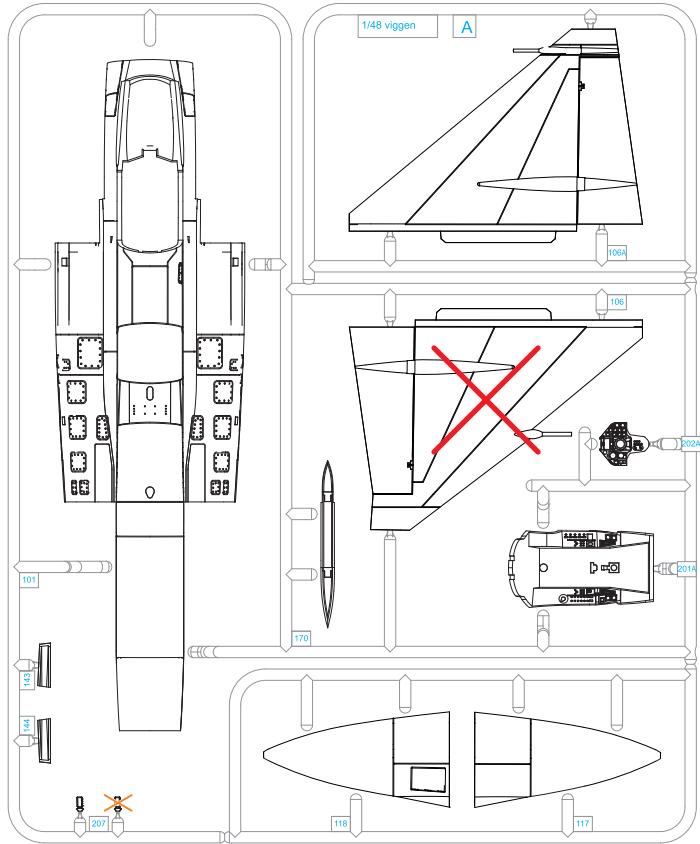
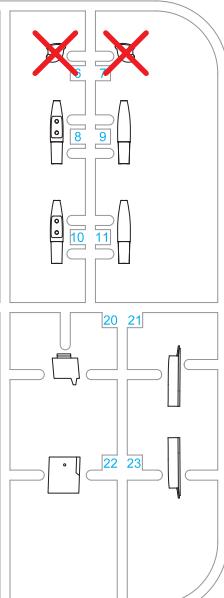
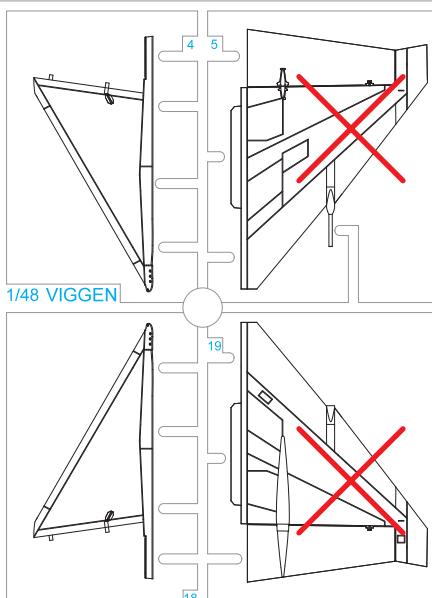
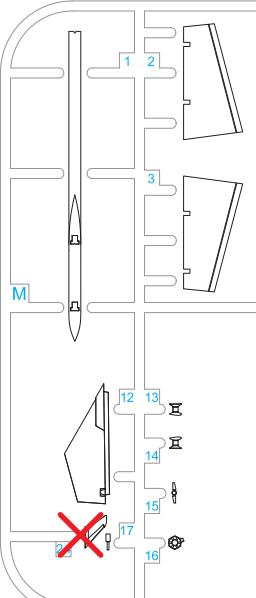
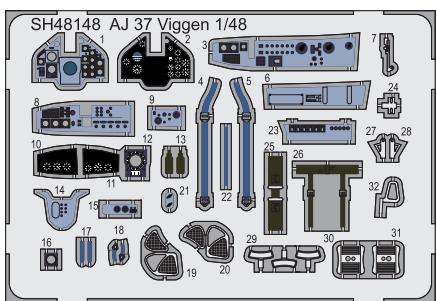


Photo-Etched Parts PE1-PE32



- Tento díl nepoužít
Do not use this part

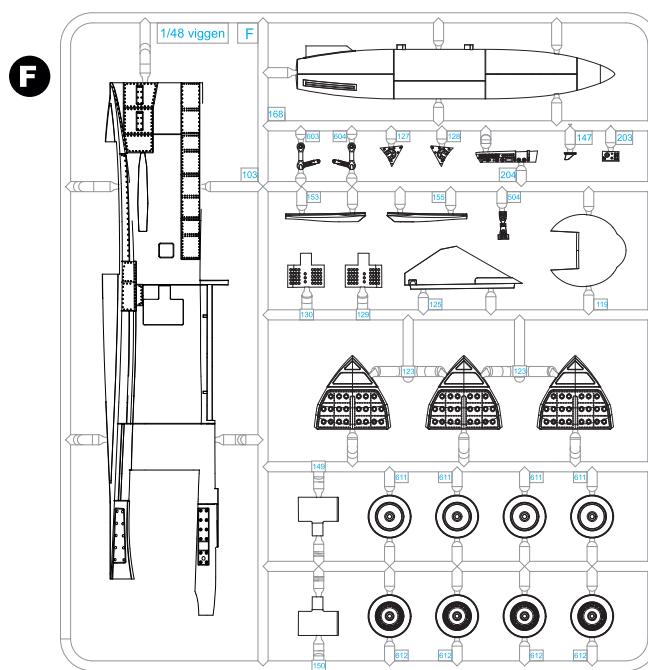
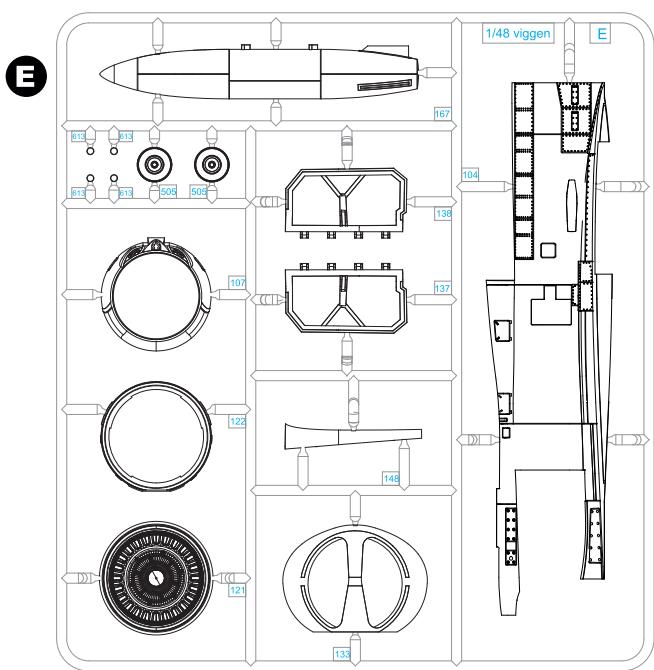
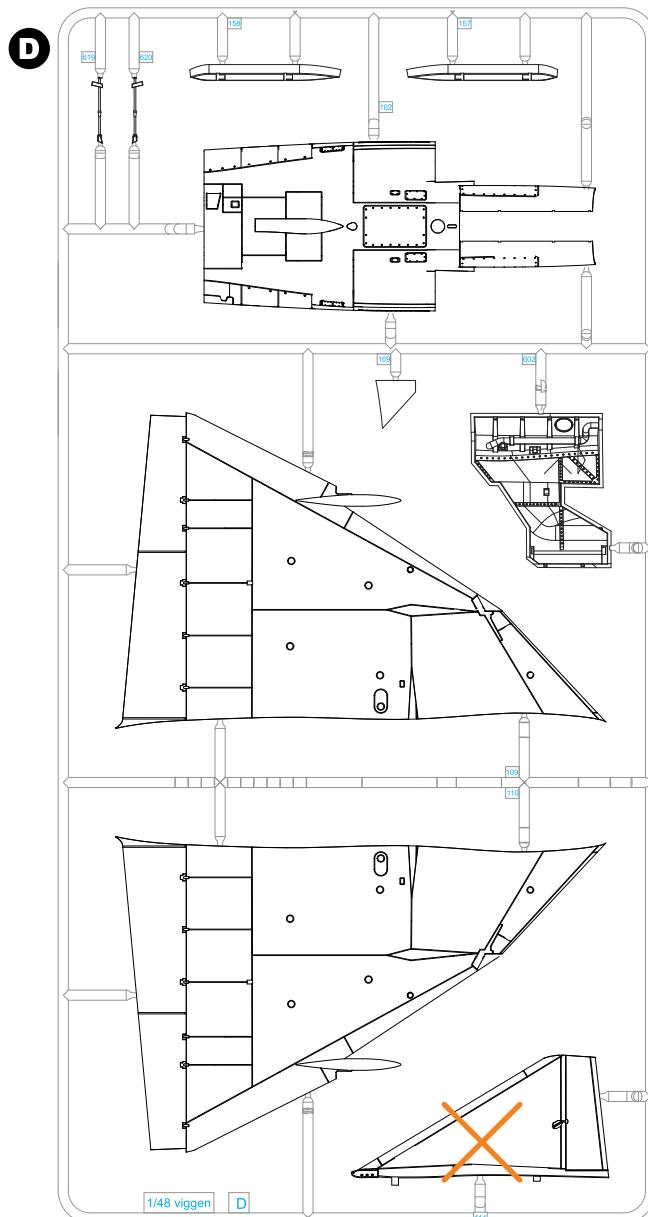
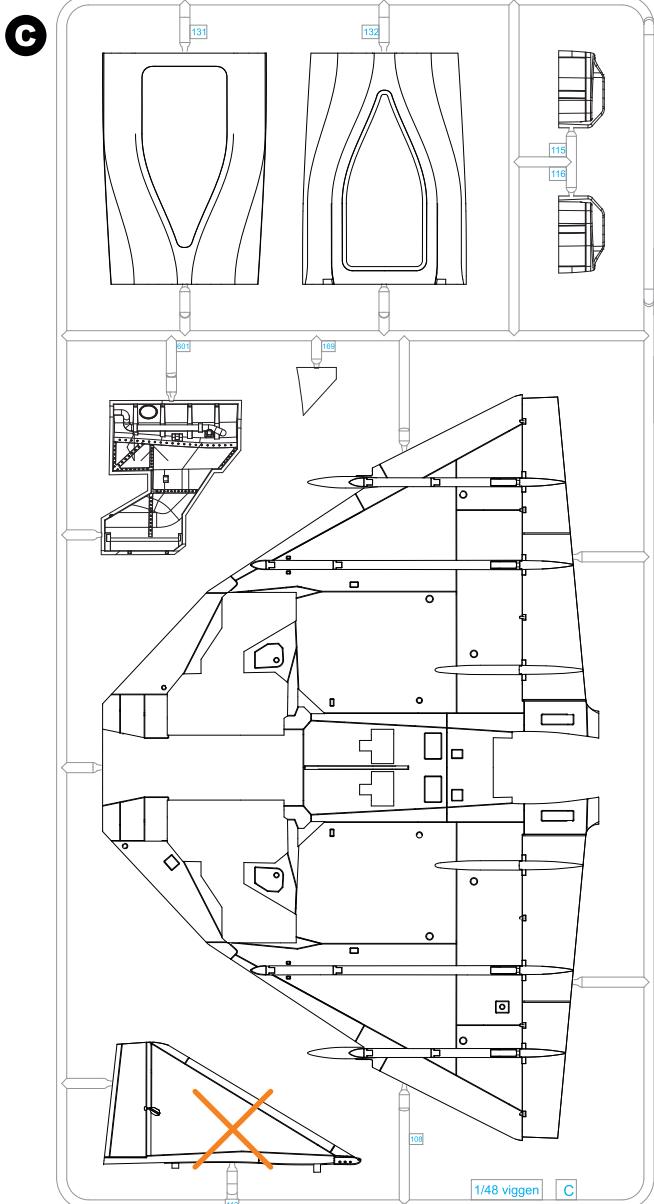
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SYMBOLS



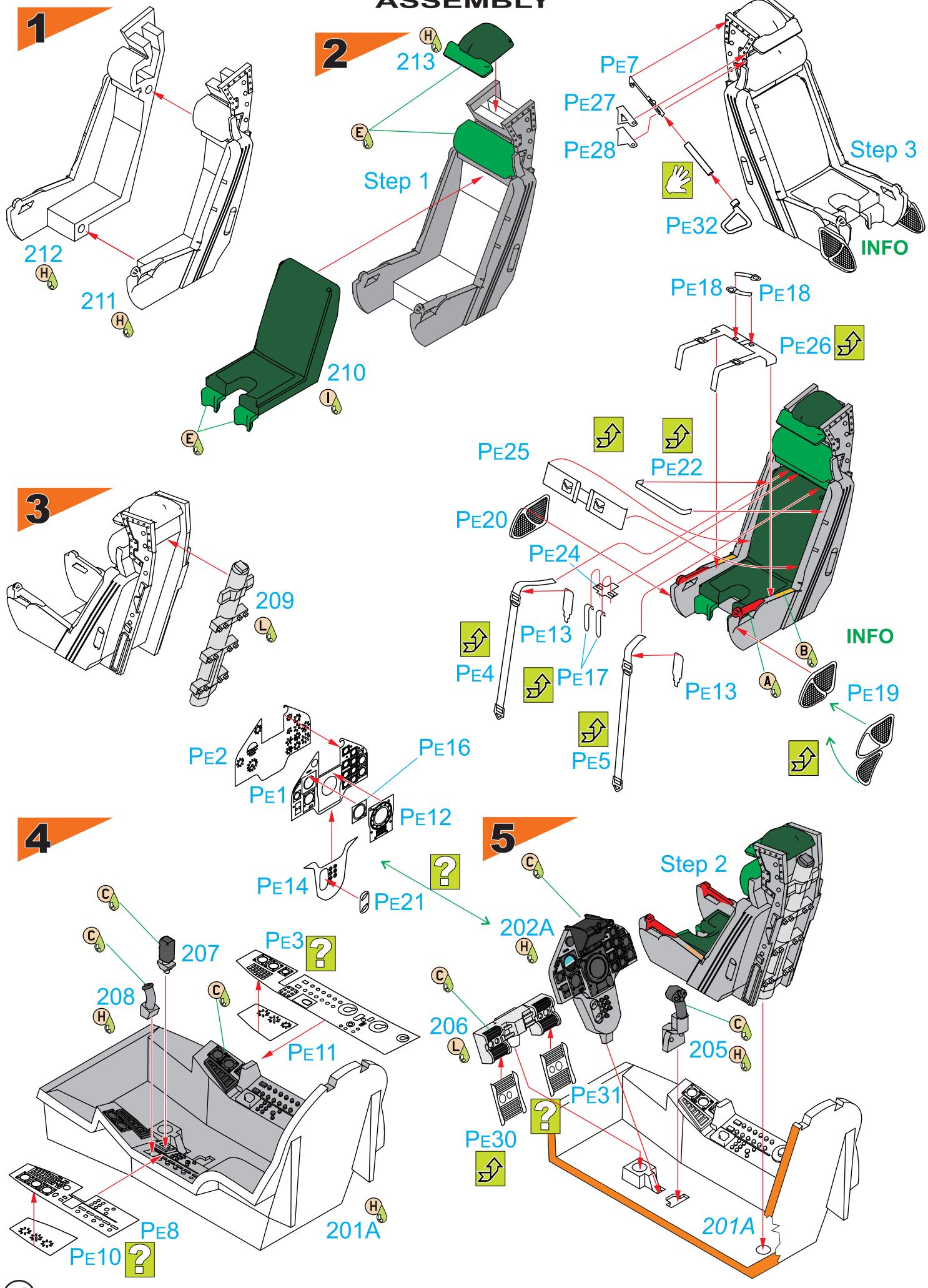
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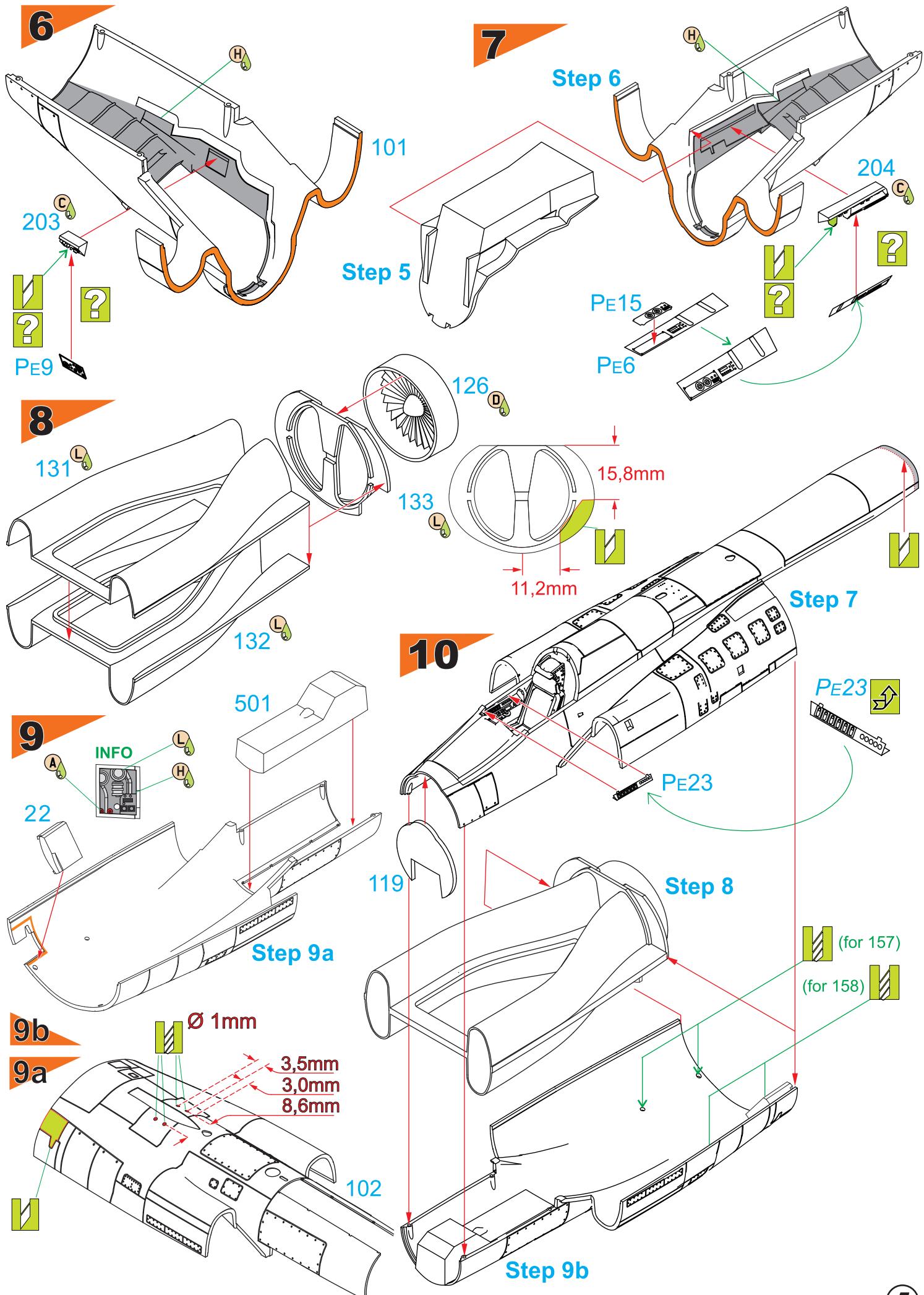
SH48216 SAAB AJ 37 Viggen 'Strike Fighter'

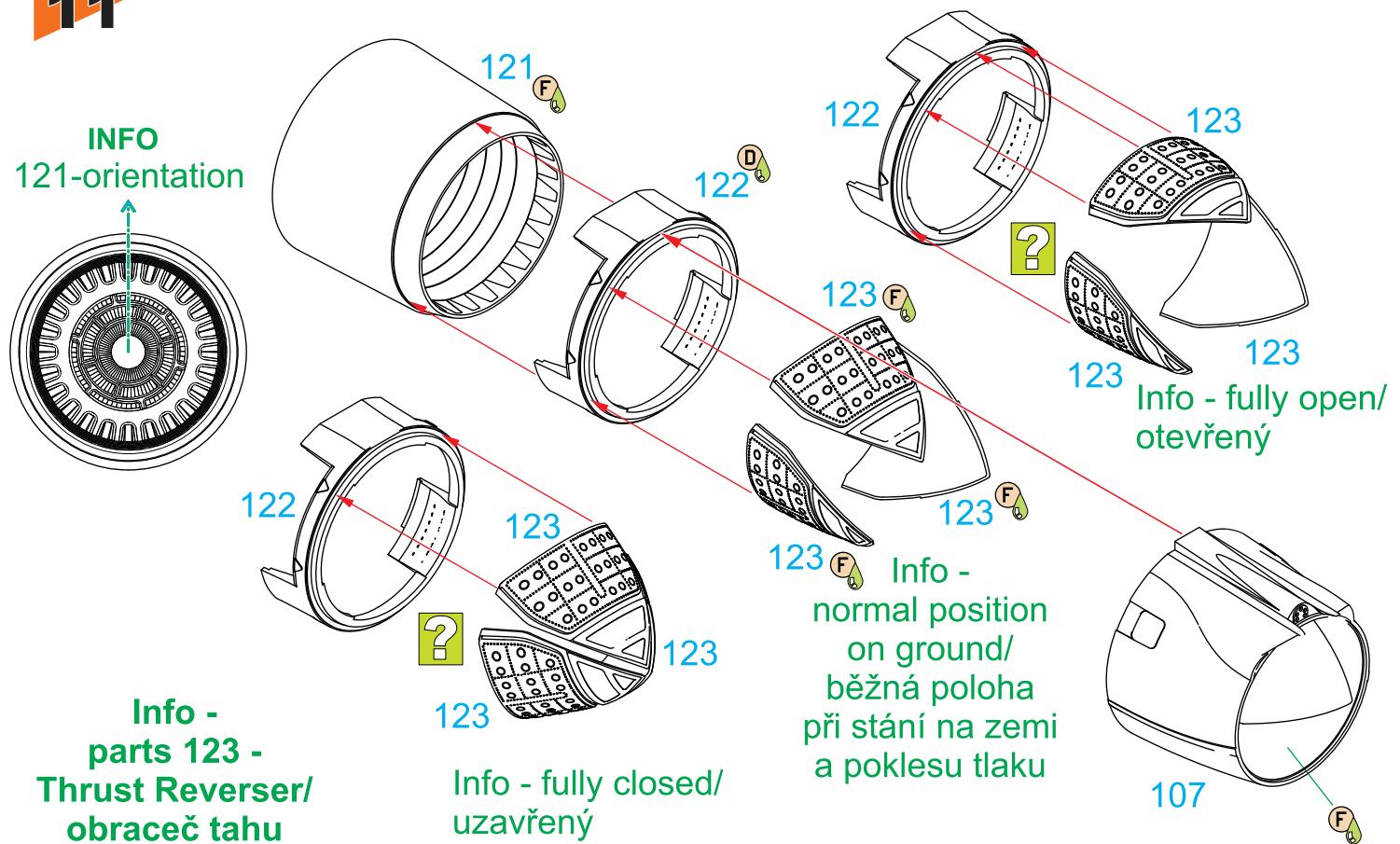
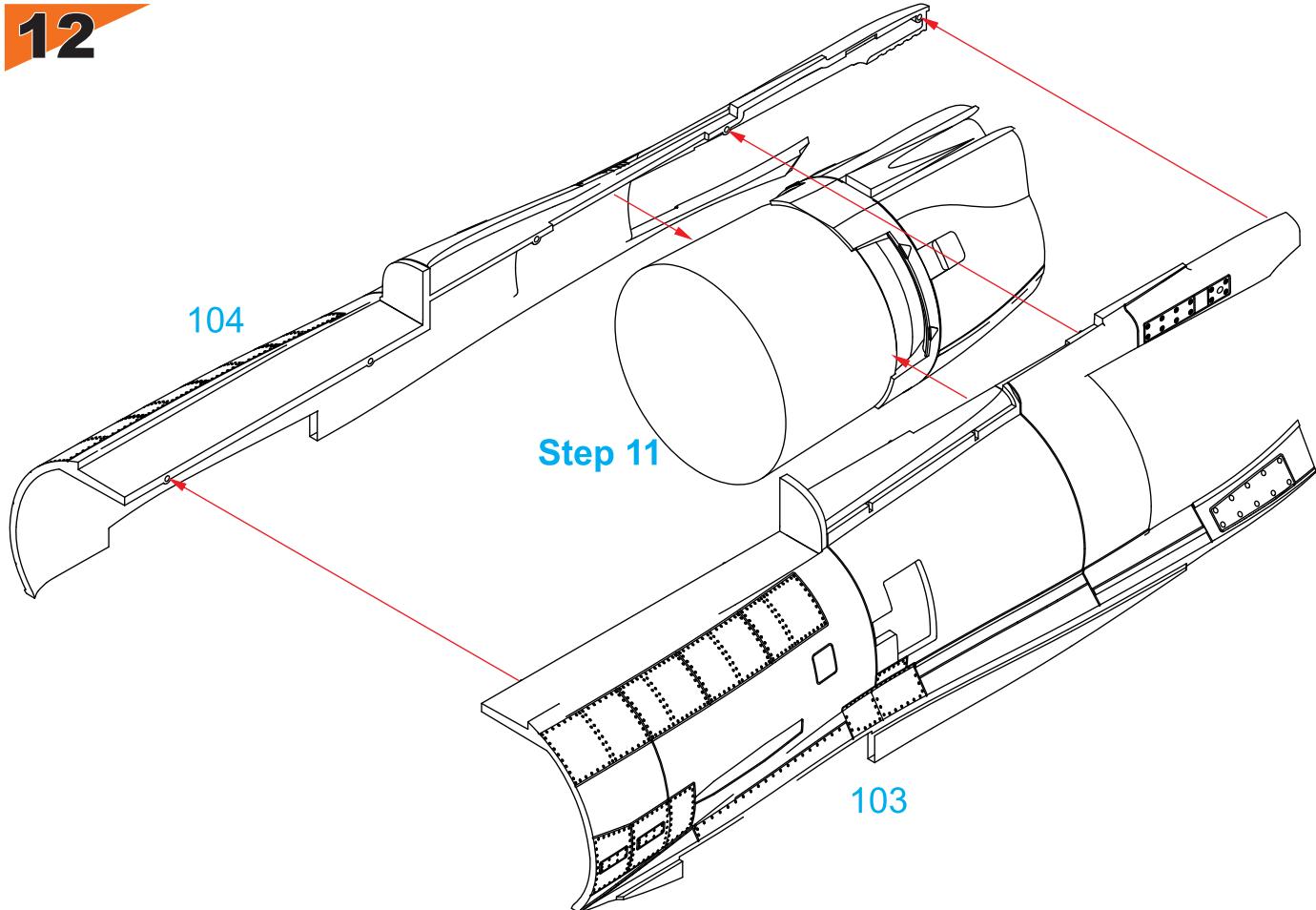


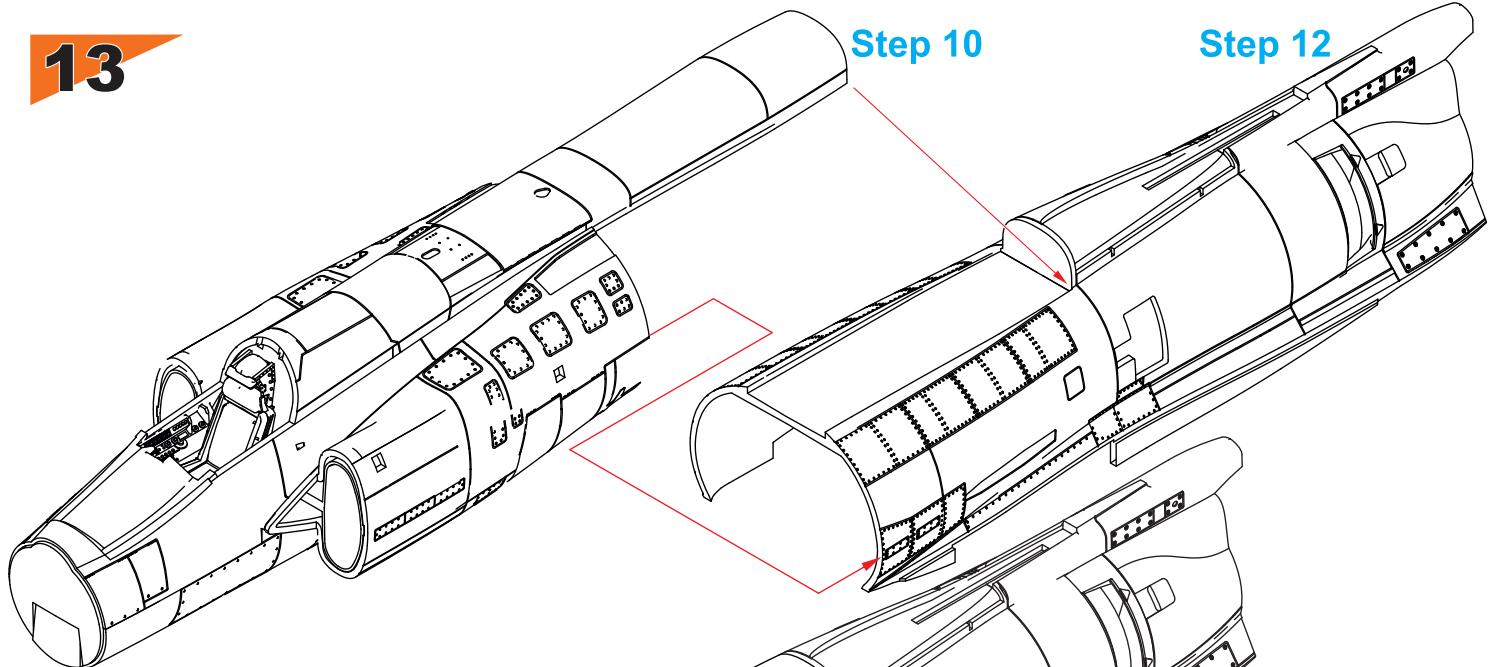
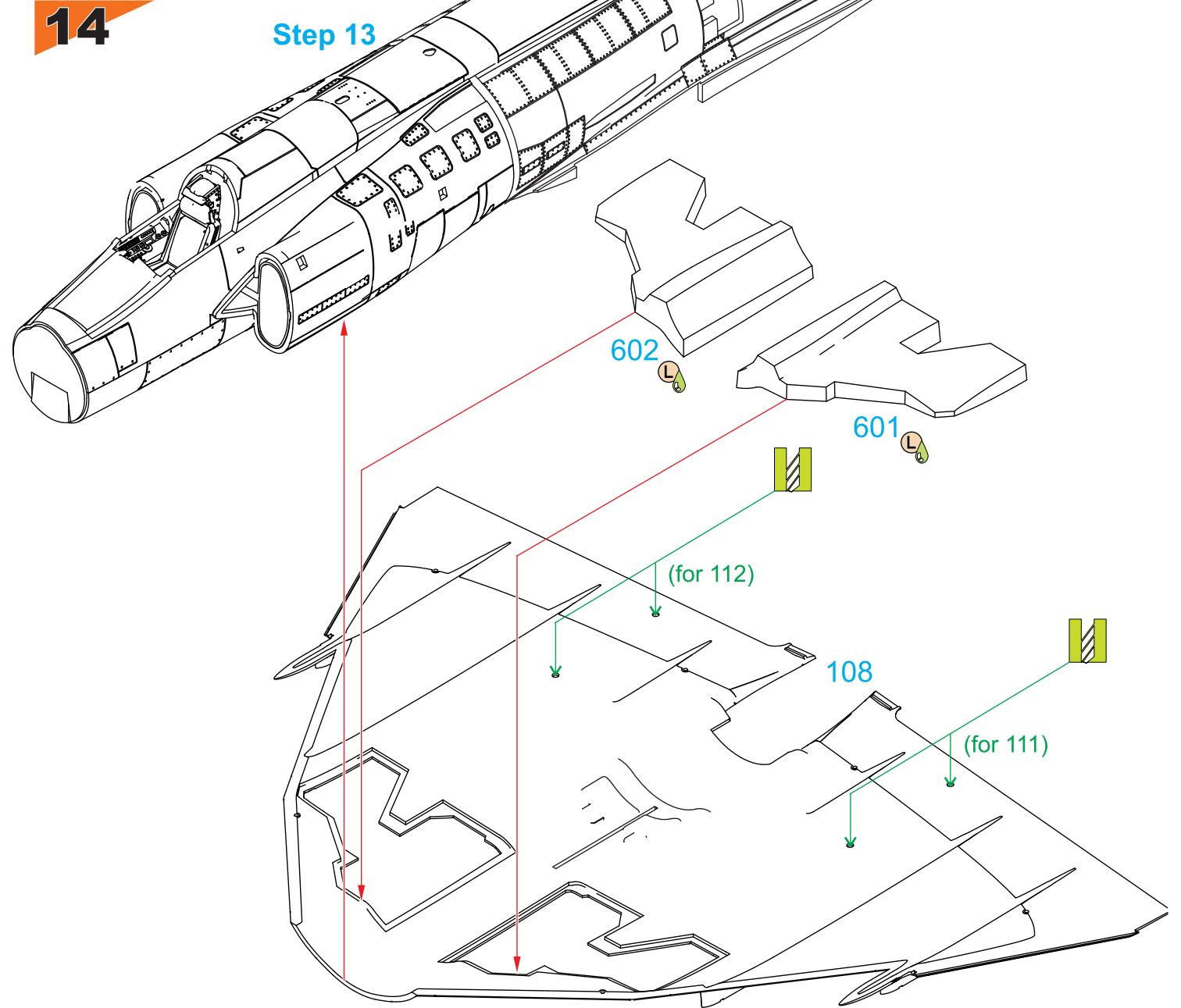
A	Červená/ RED	H3/C3	F	Opálený kov/ BURNT IRON	H76/C61	K	Tm. zelená/ DARK GREEN	H309/ C309	P	Titan/ TITANIUM	SM05
B	Žlutá/ YELLOW	H4/C4	G	Černá pneum./ TIRE BLACK	H77/C137	L	Hliník/ ALUMINIUM	MC218	Q	Červenohnědá/ RED BROWN	H47/ C41
C	Černá/ BLACK	H12/C33	H	Šedá/ GREY	H308	M	Sv. zelená/ LIGHT GREEN	H58/ C27	R	Čirá modrá/ CLEAR BLUE	H93/ C50
D	Ocel/ STEEL	H18/C28	I	Sv. zelená/ LIGHT GREEN	H319	N	Sv. hnědá/ TAN	H310/ C310	S	Čirá červená/ CLEAR RED	H90/ C47
E	Zelená/ BRIGHT GREEN	H26/C66	J	Sv. šedá/ LIGHT GREY	H338	O	Hliník/ ALUMINIUM	SM01	Barvy GUNZE/ GUNZE Colour No.		

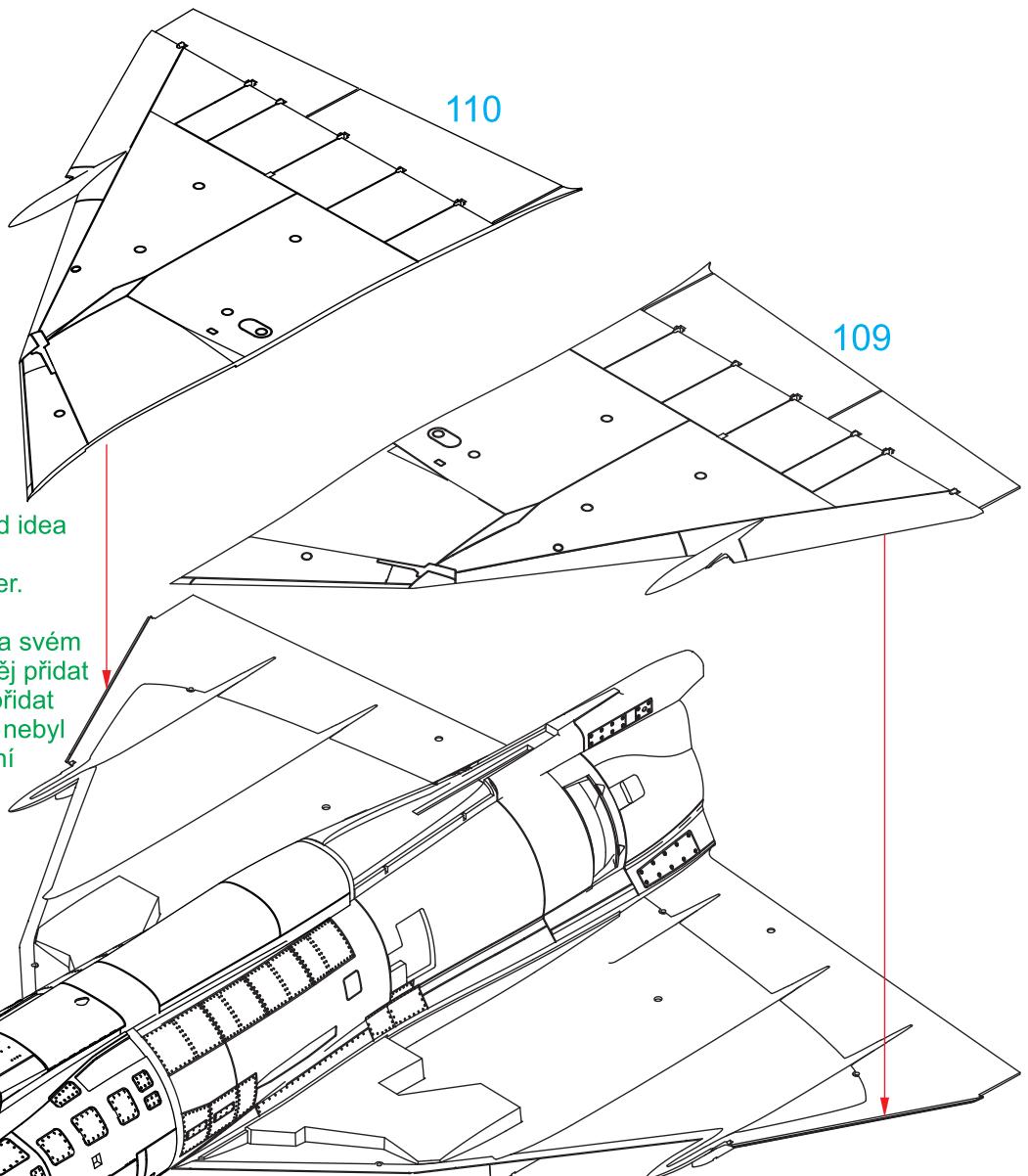
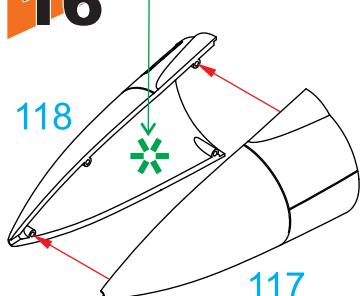
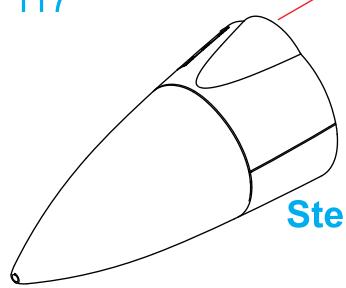
ASSEMBLY



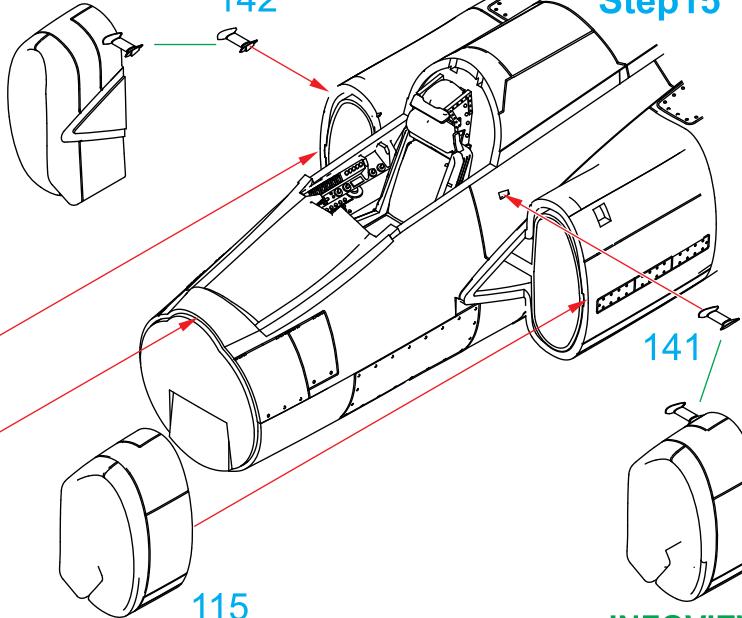


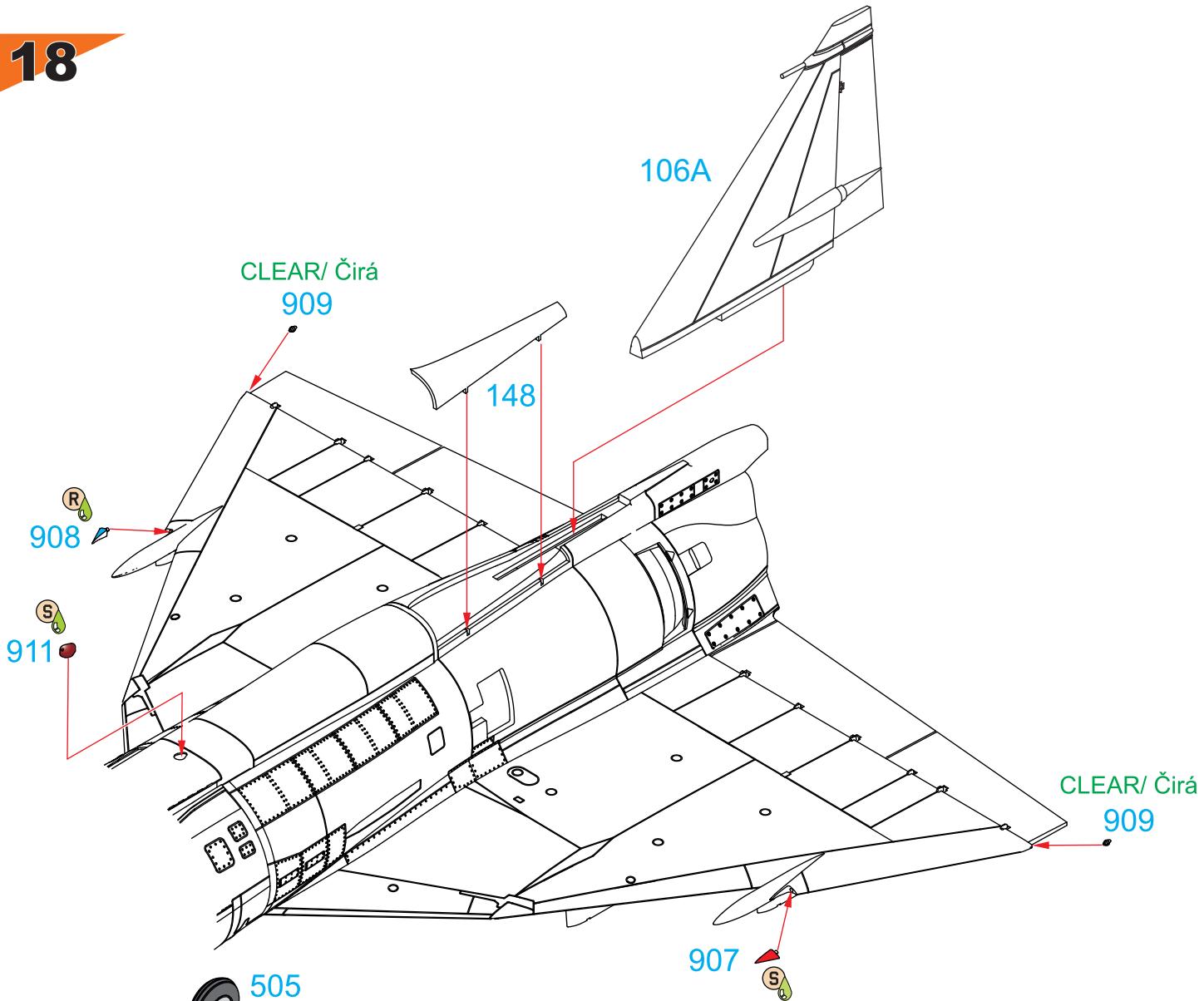
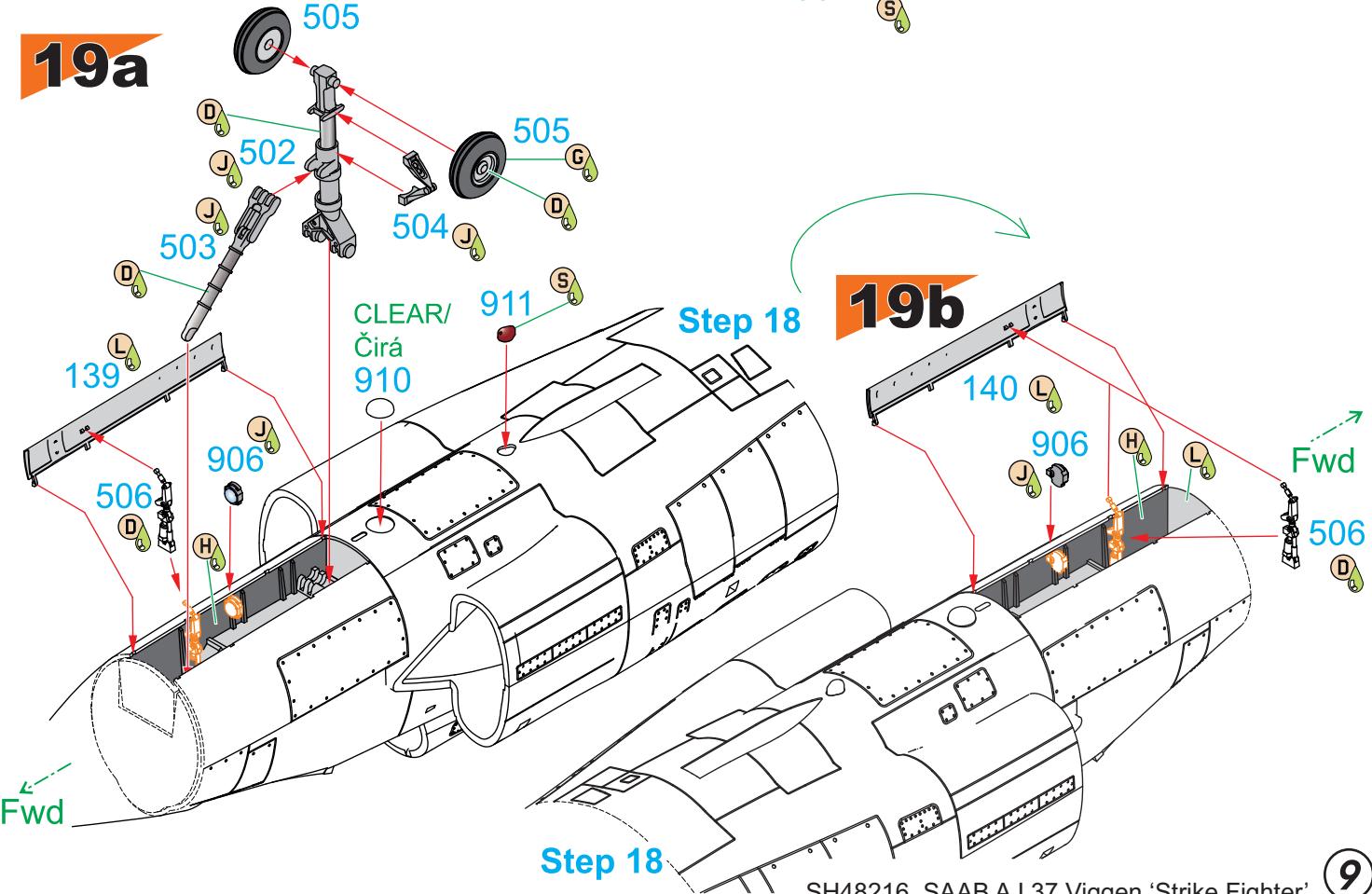
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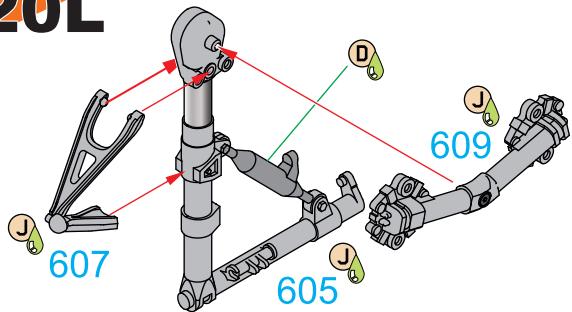
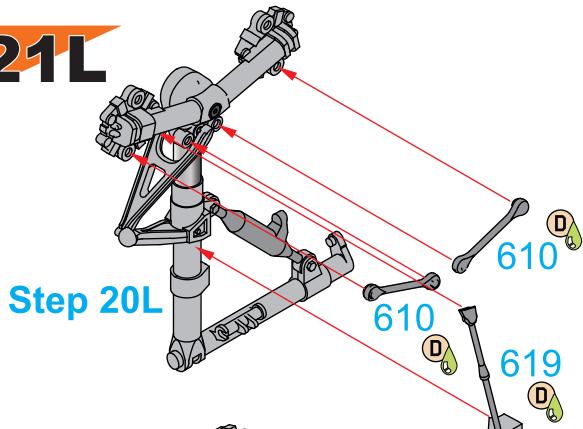
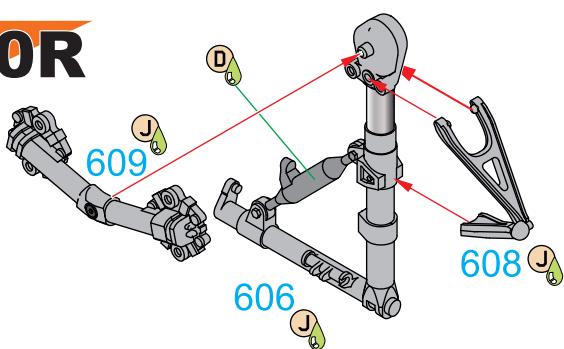
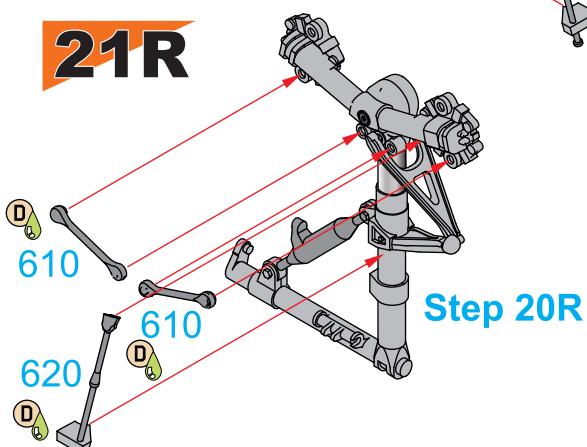
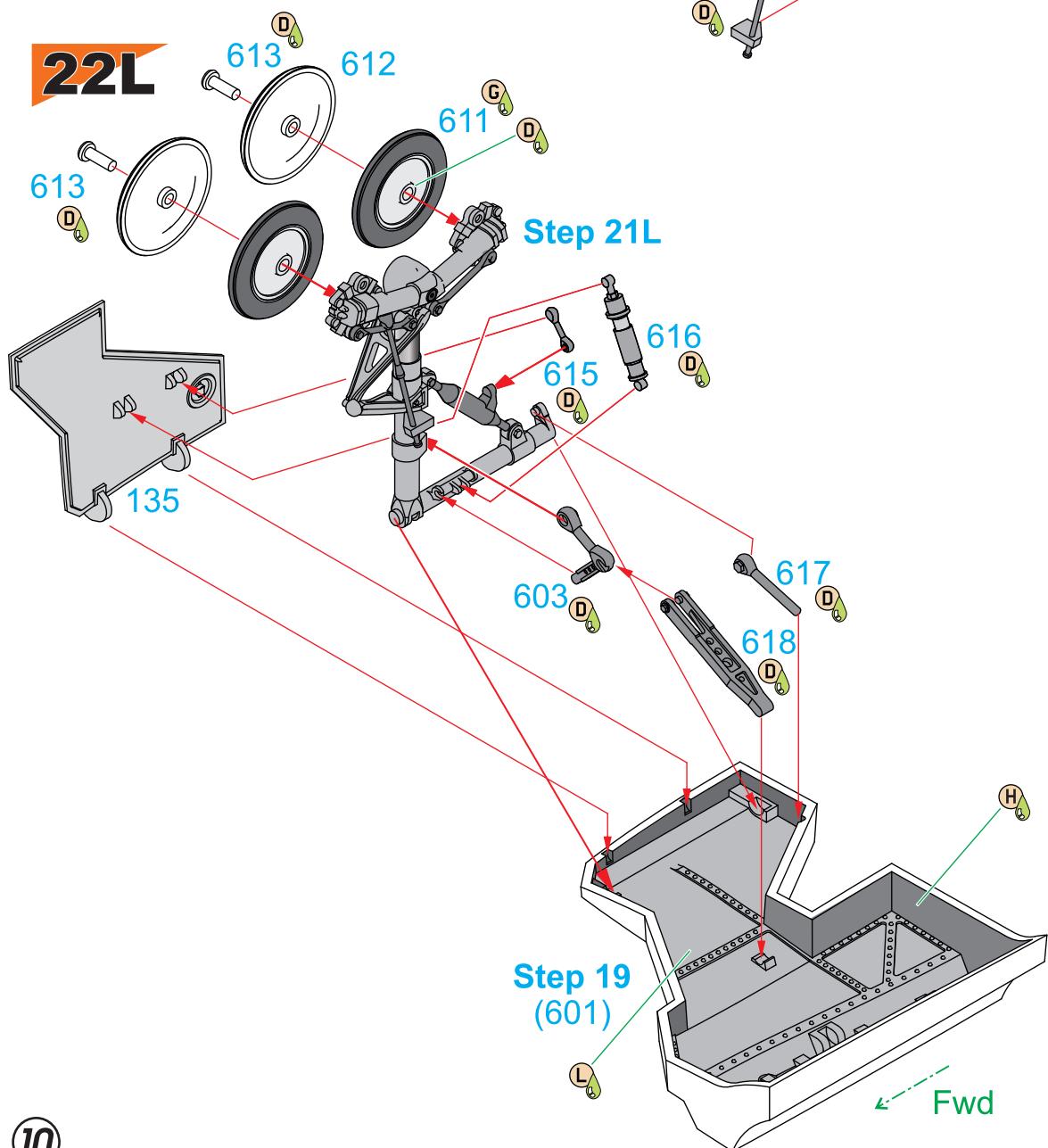
13**14**

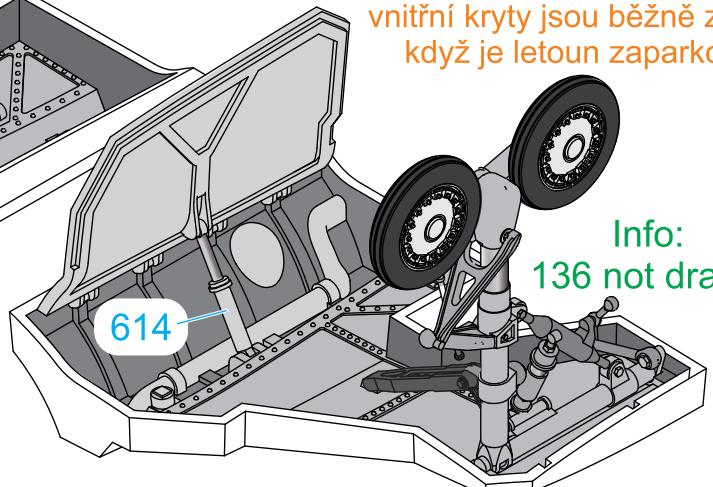
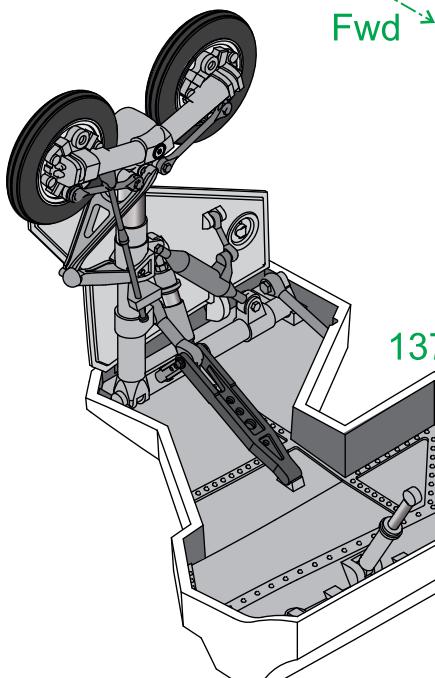
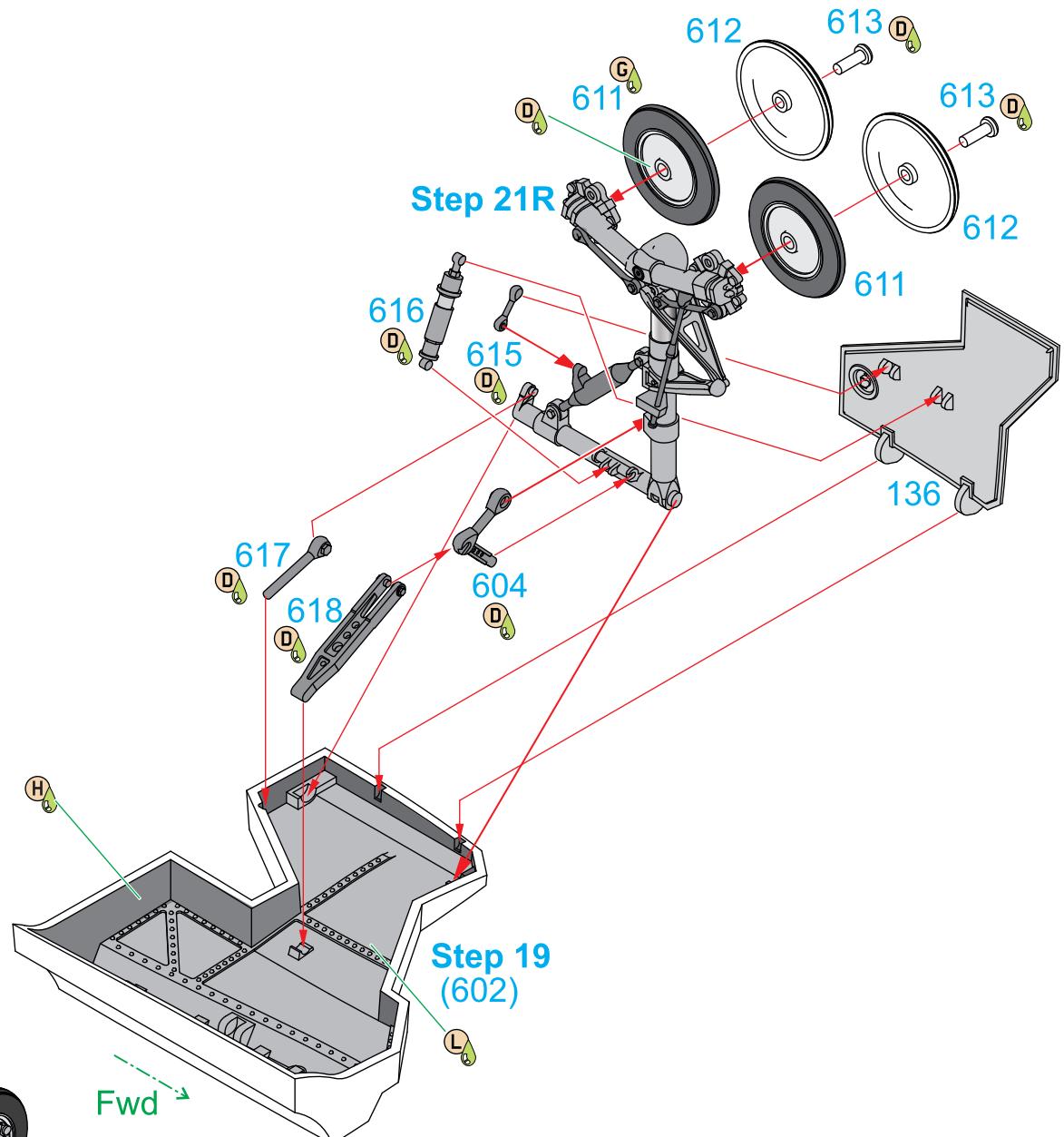
15**16****17****Step16****INFOVIEW**

142

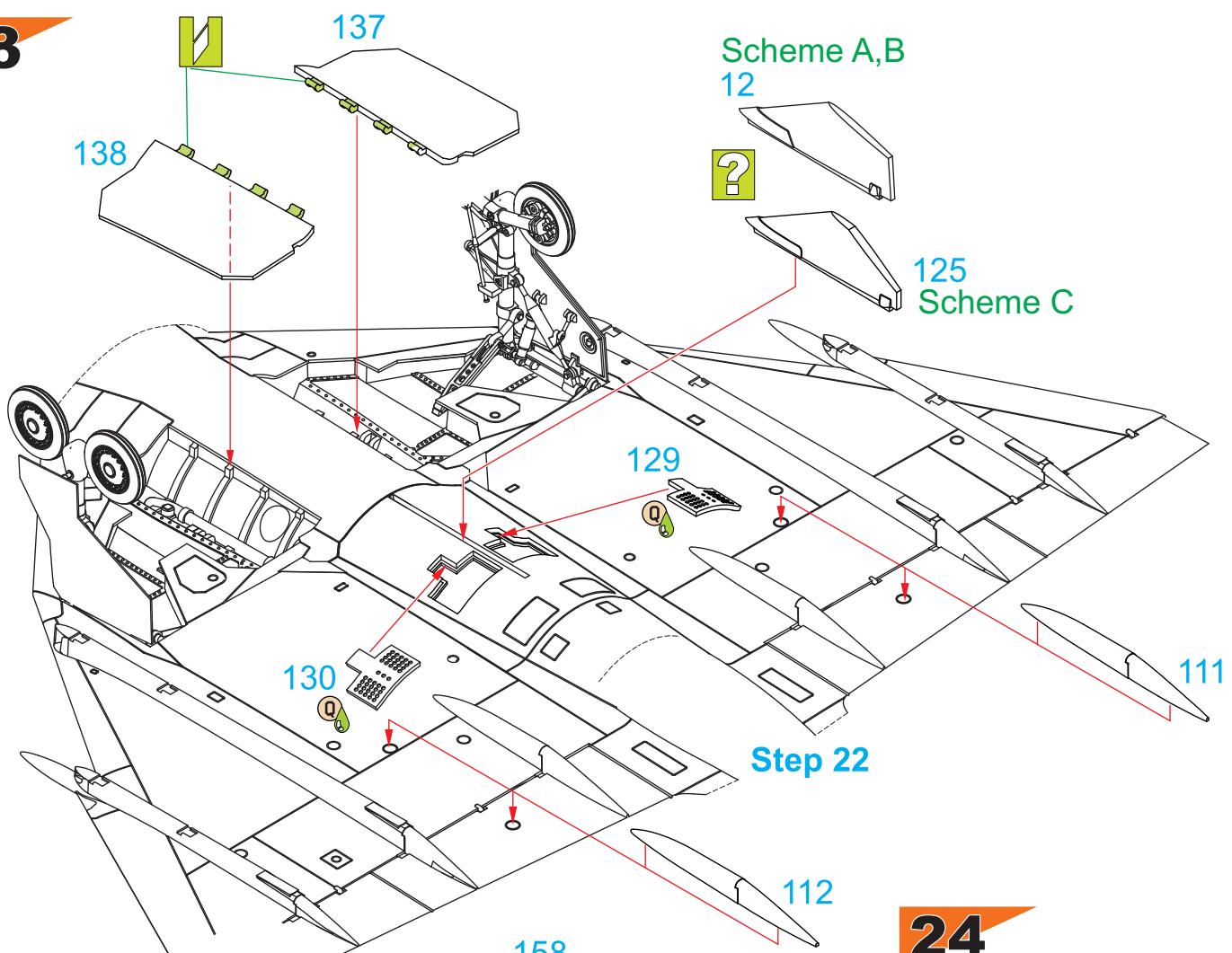
Step15**INFOVIEW****8**

18**19a**

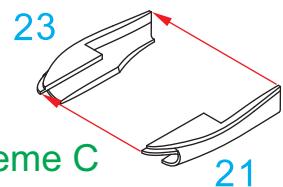
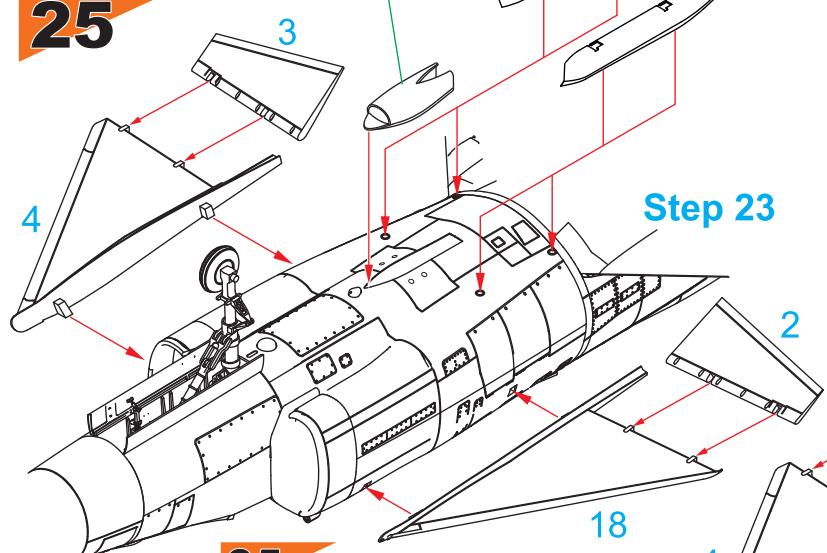
20L**21L****20R****21R****22L**

**INFO**

Info:
138 in open position -
Inner doors were normally closed
when aircraft was parked/
vnitřní kryty jsou běžně zavřené,
když je letoun zaparkován

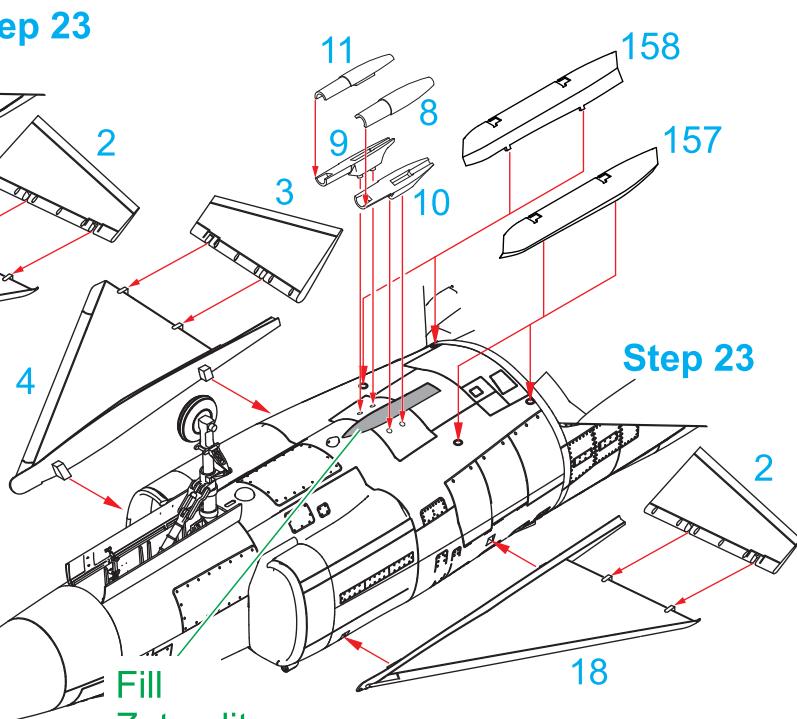
23Scheme A,B
12

125 Scheme C

24Scheme C
Step 24**25****25a**

Scheme C

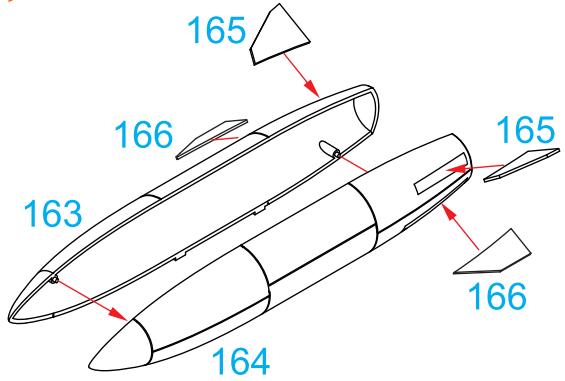
Scheme A,B

25bFill
Zatmelit**12**

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26

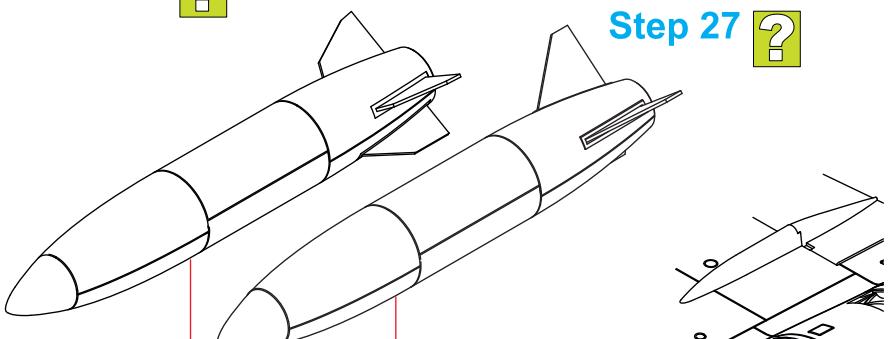
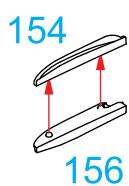
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Step 26

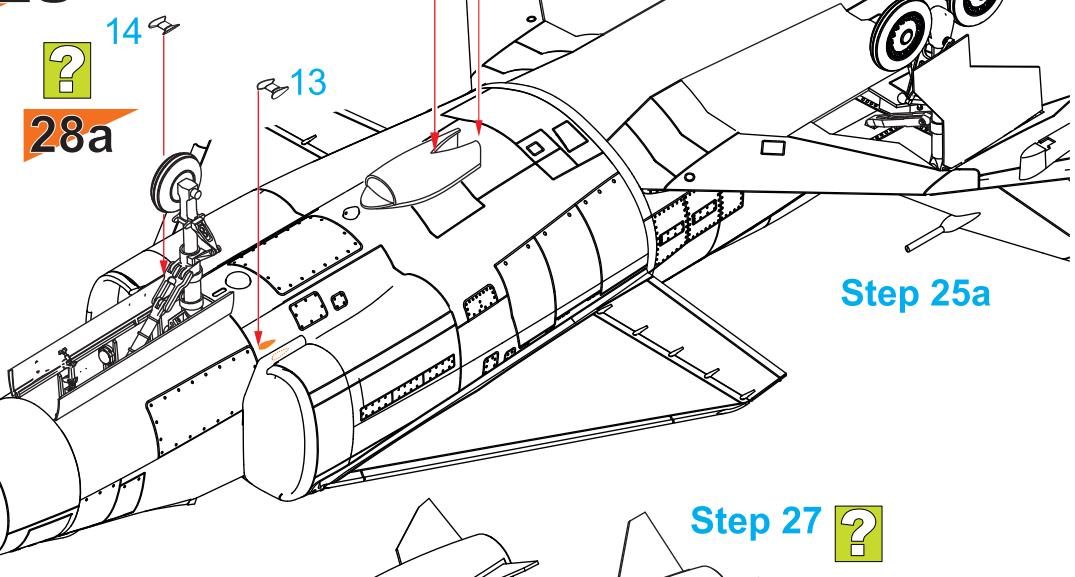
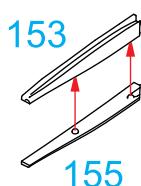
Step 27

?

**29****28**

?

28a

**30**

Step 25a

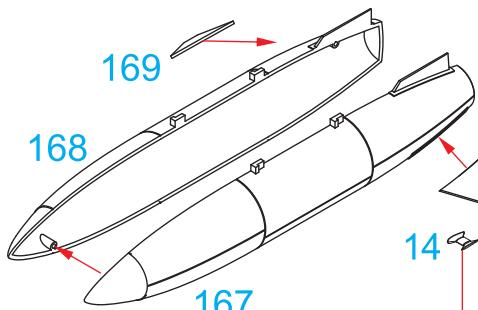
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Step 27

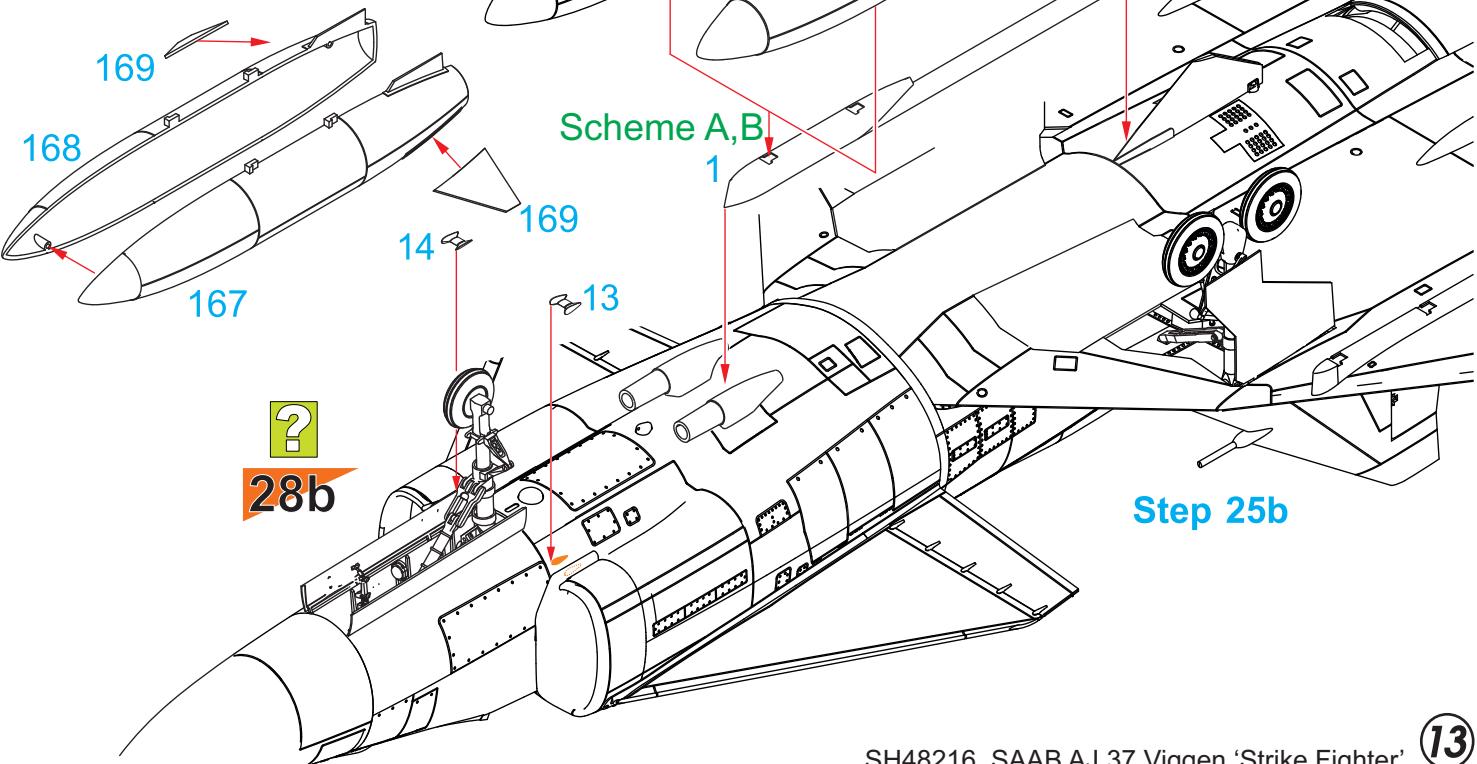
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27

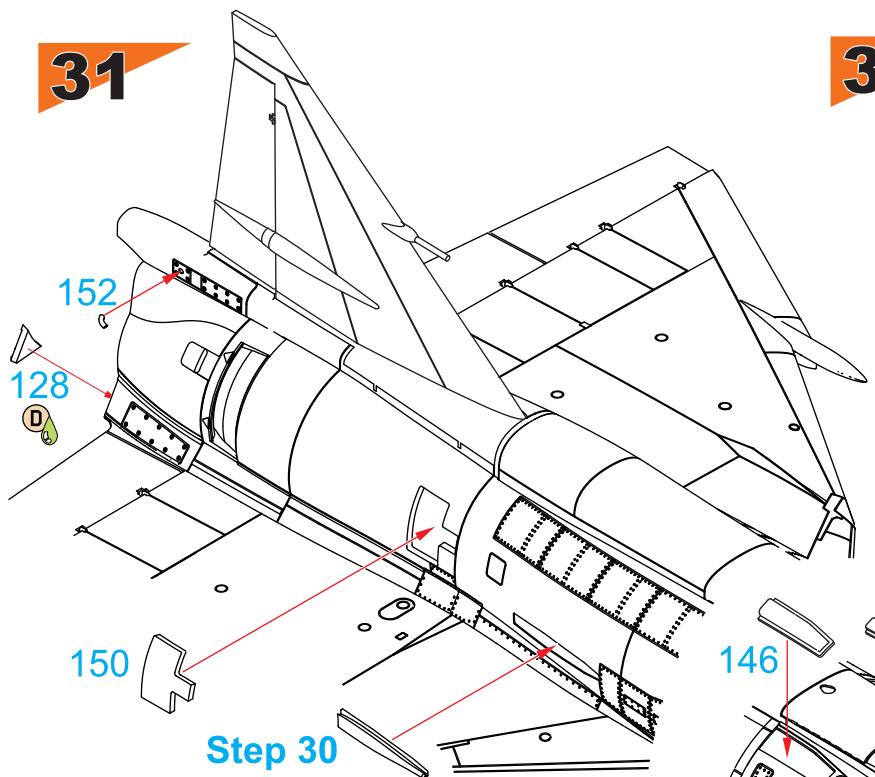
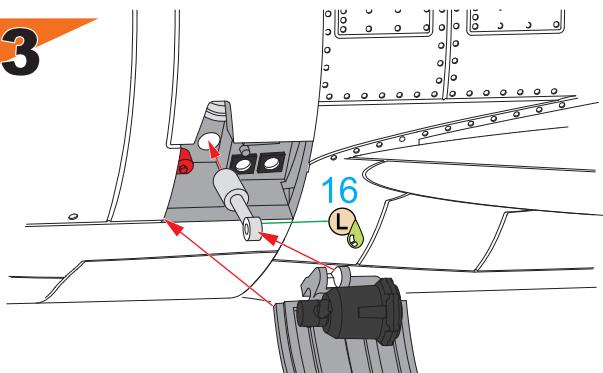
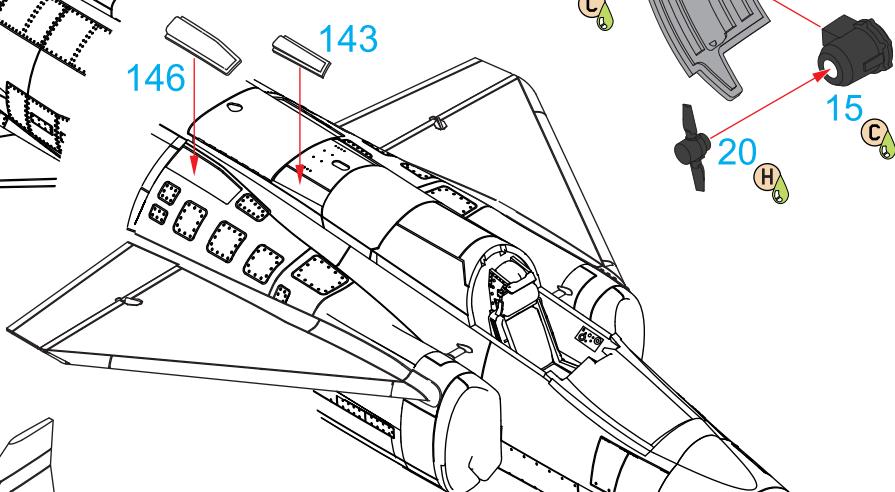
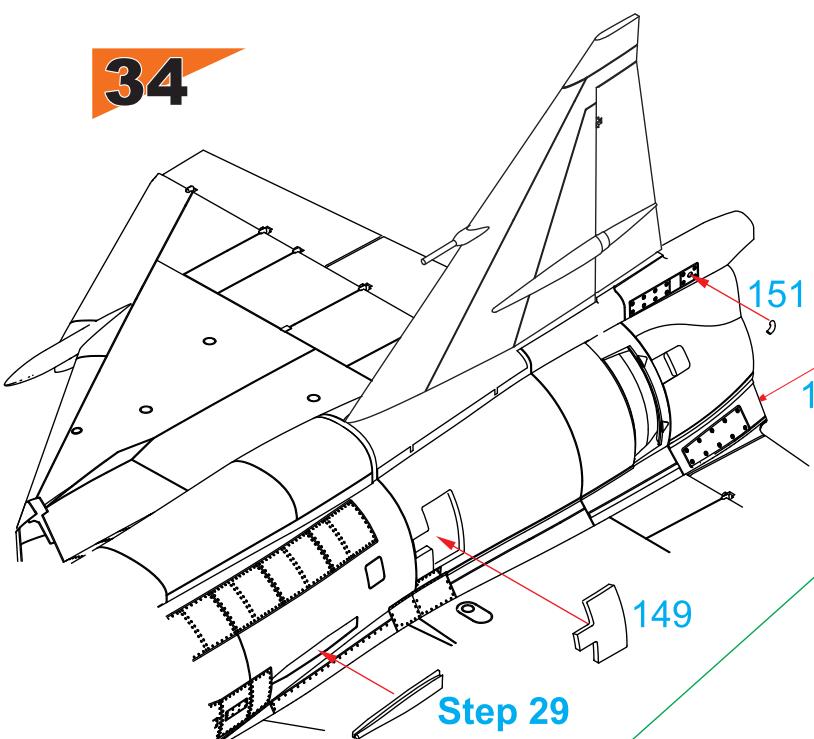
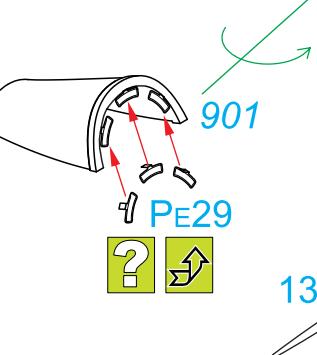
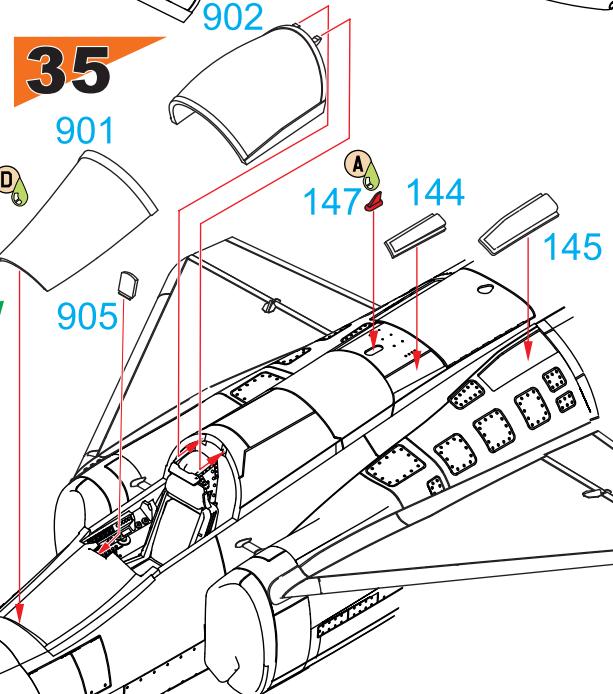
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Scheme A,B



Step 25b

31**33****32****34**Canopy open
902**35**

134

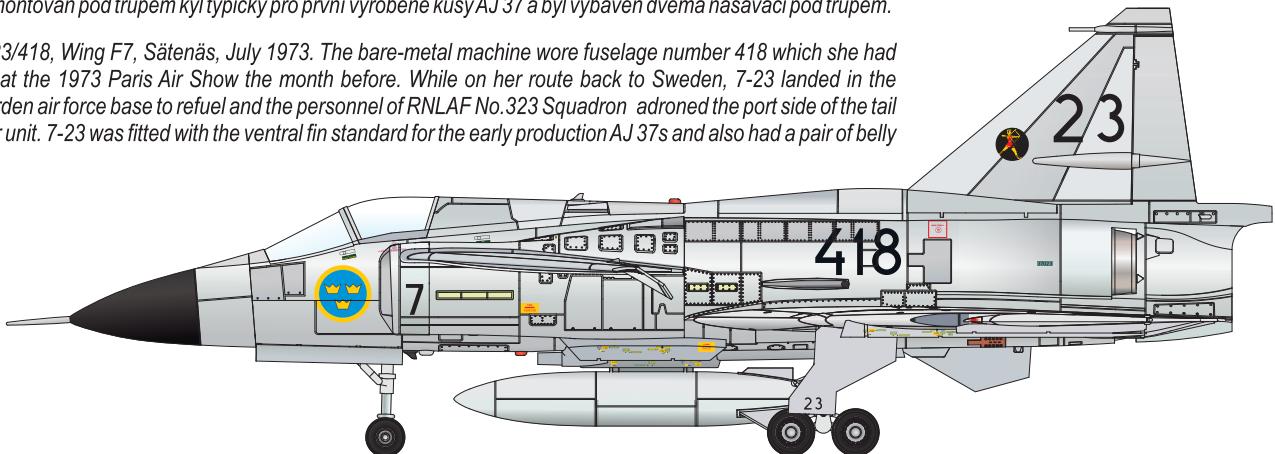
14

SH48216 SAAB AJ 37 Viggen 'Strike Fighter'

AJ-37 Viggen 37023/7-23/418, Wing F7, základna Sätenäs, červenec 1973. Stroj létající v barvě kovu nesl na trupu číslo 418, které dostal pro předvádění na Paris Air show 1973 o měsíc dříve. Při návratu do Švédska přistál 7-23 na holandské základně Leeuwarden pro doplnění paliva. Příslušníci tamější No.323 Squadron RNRAF ozdobili levou stranu SOP 7-23 znakem své squadrony. 7-23 měl namontován pod trupem kýl typický pro první vyrobené kusy AJ 37 a byl vybaven dvěma nasávači pod trupem.

AJ-37 Viggen 37023/7-23/418, Wing F7, Sätenäs, July 1973. The bare-metal machine wore fuselage number 418 which she had got for her appearance at the 1973 Paris Air Show the month before. While on her route back to Sweden, 7-23 landed in the Netherlands on Leeuwarden air force base to refuel and the personnel of RNRAF No.323 Squadron adroned the port side of the tail fin with the badge of their unit. 7-23 was fitted with the ventral fin standard for the early production AJ 37s and also had a pair of belly air intakes.

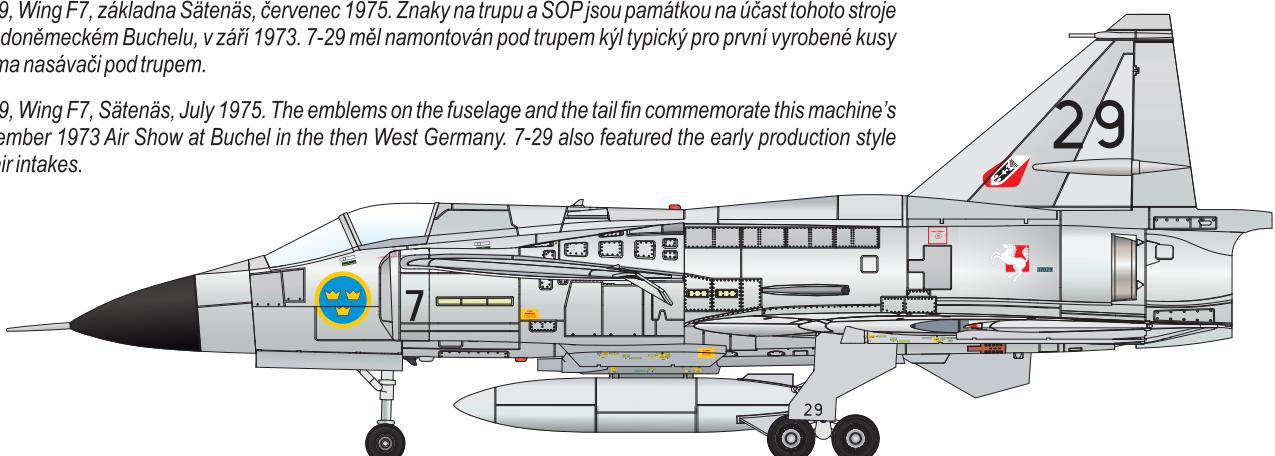
Scheme A



AJ-37 Viggen 37029/7-29, Wing F7, základna Sätenäs, červenec 1975. Znaky na trupu a SOP jsou památkou na účast tohoto stroje na Air show v tehdy západoněmeckém Buchelu, v září 1973. 7-29 měl namontován pod trupem kýl typický pro první vyrobené kusy AJ 37 a byl vybaven dvěma nasávači pod trupem.

AJ-37 Viggen 37029/7-29, Wing F7, Sätenäs, July 1975. The emblems on the fuselage and the tail fin commemorate this machine's appearance at the September 1973 Air Show at Buchel in the then West Germany. 7-29 also featured the early production style ventral fin and two belly air intakes.

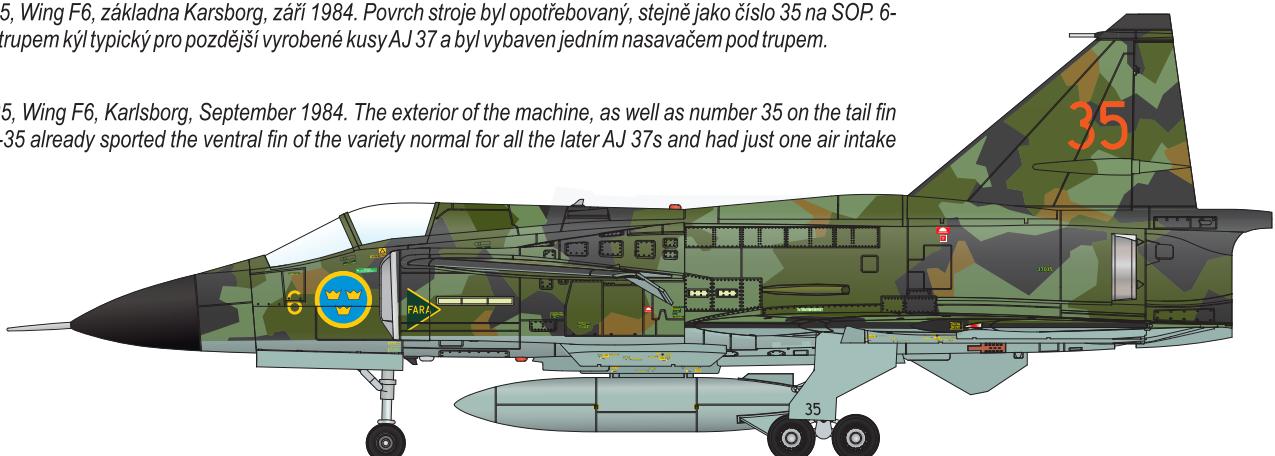
Scheme B



AJ-37 Viggen 37035/6-35, Wing F6, základna Karsborg, září 1984. Povrch stroje byl opotřebovaný, stejně jako číslo 35 na SOP. 6-35 měl namontován pod trupem kýl typický pro pozdější vyrobené kusy AJ 37 a byl vybaven jedním nasávačem pod trupem.

AJ-37 Viggen 37035/6-35, Wing F6, Karlsborg, September 1984. The exterior of the machine, as well as number 35 on the tail fin are rather worn down. 6-35 already sported the ventral fin of the variety normal for all the later AJ 37s and had just one air intake under her belly.

Scheme C



Star Dust
weathering pigments



The Razor Saw with Handle (cat. n. H1010) is a great tool for cutting both plastic and resin. CMK also offers a wide variety of coarse/medium/fine saws.

H1000 Ultra smooth and extra smooth saw
(2 sides – 70 teeth / 42 teeth) 1 pc

H1001 Ultra smooth saw
(both sides – 70 teeth / 70 teeth) 1 pc

H1002 Very smooth saw
(both sides – 42 teeth / 42 teeth) 1 pc

H1003 Smooth saw
(both sides – 31 teeth / 31 teeth) 1 pc

H1004 Ultra smooth and extra smooth saw
(2 sides – 70 teeth / 42 teeth) 5 pcs

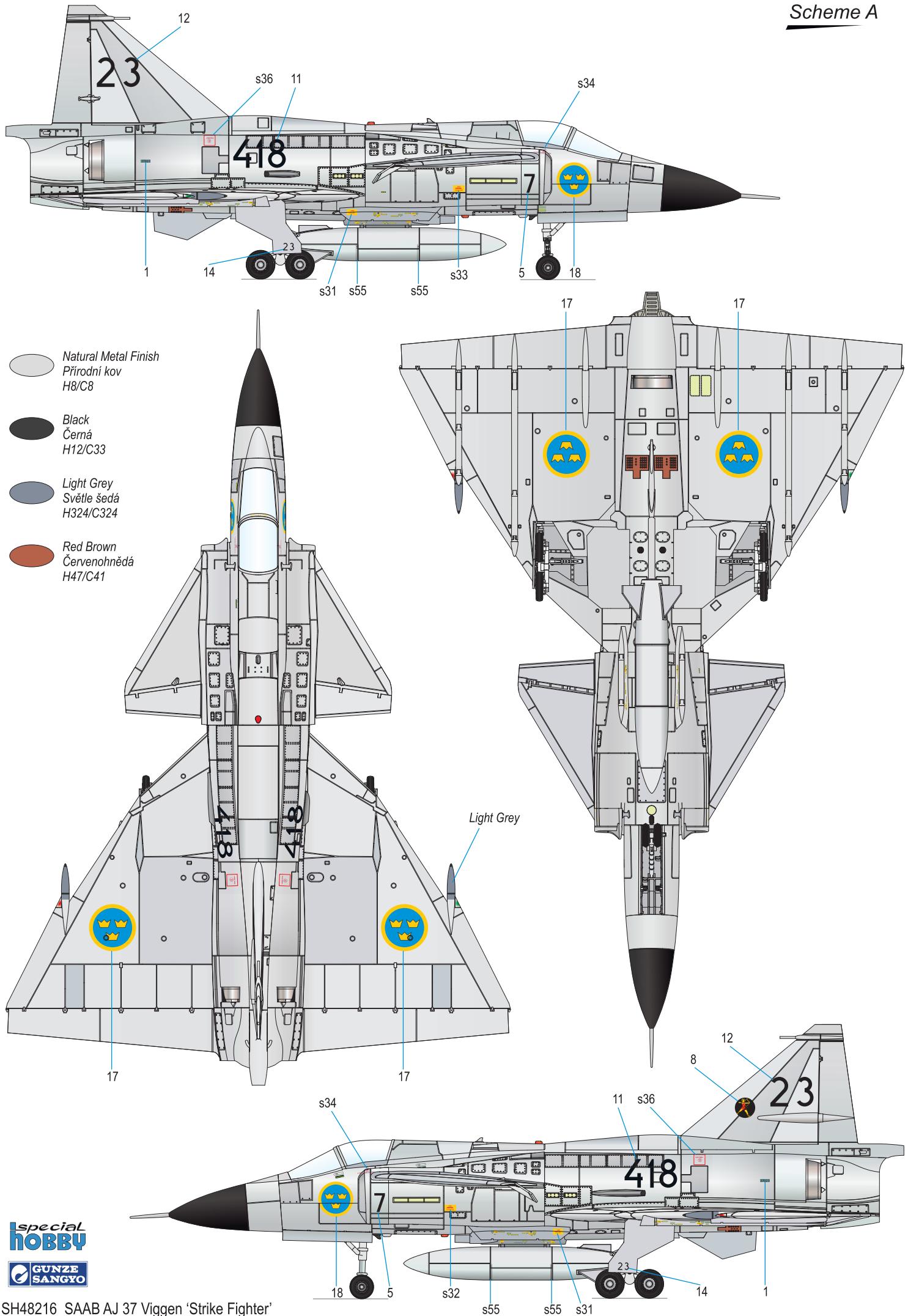
H1005 Ultra smooth saw
(both sides – 70 teeth / 70 teeth) 5 pcs

H1006 Very smooth saw
(both sides – 42 teeth / 42 teeth) 5 pcs

H1007 Smooth saw
(both sides – 31 teeth / 31 teeth) 5 pcs

H1010 Razor Saw with Handle

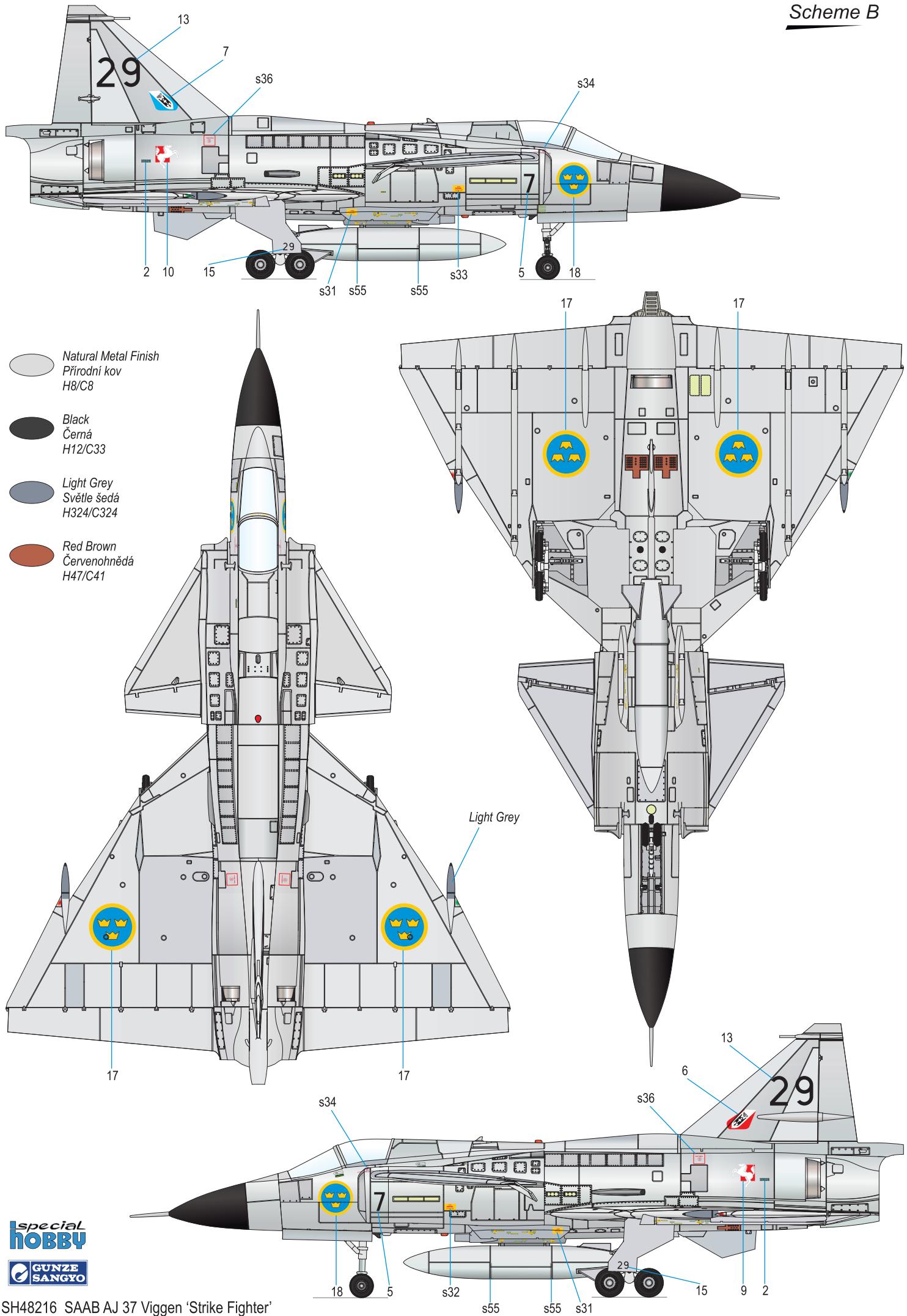
Scheme A

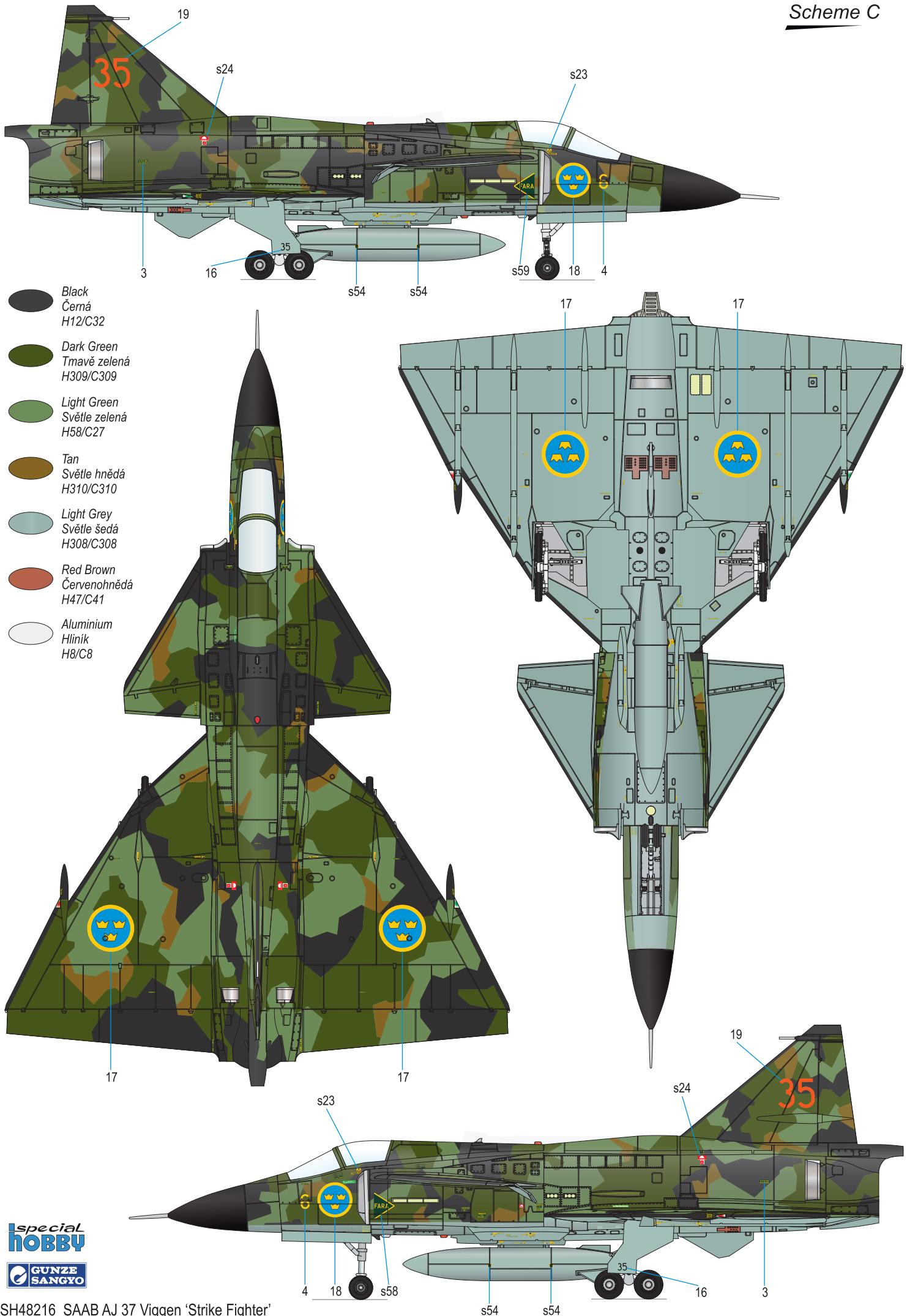


special
HOBBY

GUNZE
SANGYO

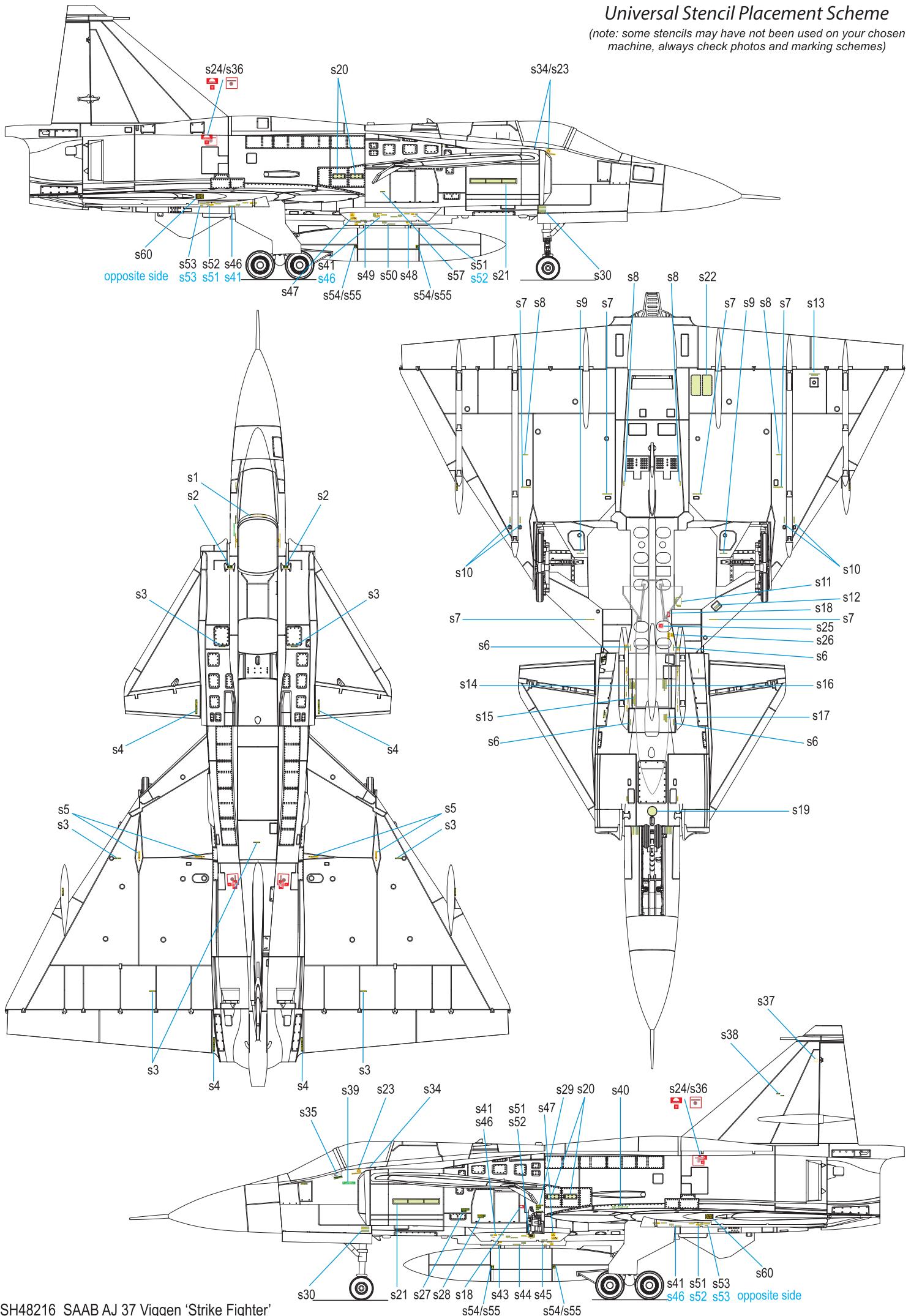
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Universal Stencil Placement Scheme

(note: some stencils may have not been used on your chosen machine, always check photos and marking schemes)



VIGGEN CMK RESIN SETS for Special Hobby kits



4310
Bofors m/70
Rocket pod (2 pcs)



4385
AJ/SK/SH-37 Viggen
Control Surfaces

Q48219
Viggen
Ejection
Seat



Q48220
SAAB 37 Viggen
Air Brakes Set



Q48221
SAAB 37 Viggen
Wheels



Q48350
SAAB 37 Viggen
Thrust Reverser



F48350
SK-37/SK-37E
Viggen Instructor/
Operator (seated
in rear cockpit)



F48360
Viggen Ground
Crew (2 figs.)



F48351
AJ-37/JA-37
Viggen Pilot
Climbing Ladder
into Cockpit

1/48
SH48202



**special
MASK**

M48005 AH-1G Cobra MASK

AH-1G Cobra 'Spanish & IDF/AF Cobras'