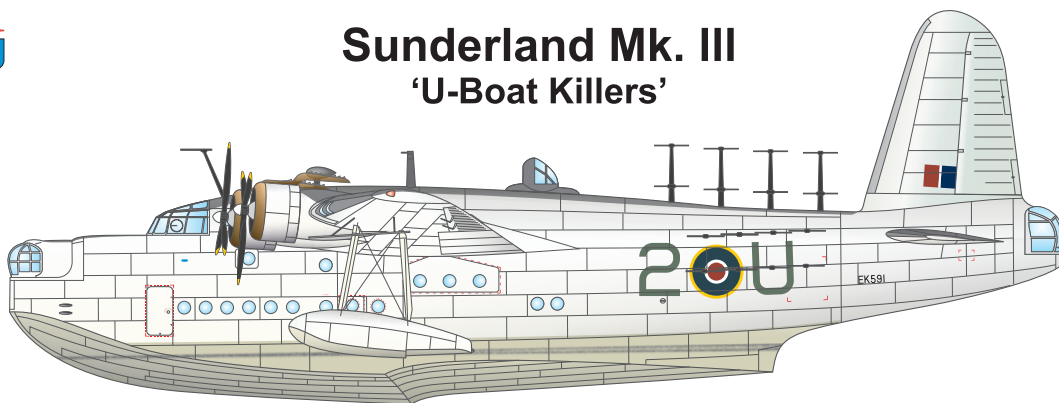




Historie

CZ

Firma Short byla jednou z největších firem, které se věnovaly vývoji a výrobě létajících člunů. Ve třicátých letech minulého století, kdy celokovové jednoplošníky začaly vytlačovat dvouplošníky, Short vyvinul několik variant civilních čtyřmotorových celokovových létajících člunů S.23, 30 a 33, souhrnně označovaných C-Class nebo Empire Class. Část z nich dostala vojenské vybavení a používaly se i bojově. Zkušenosti s výrobou a provozem těchto člunů se projevíly v konstrukci stroje Short S.25. Ten byl navržen podle specifikací R.2/33, požadujících létající člun dalekého doletu určený k protiponorkovému hlídkování a k průzkumu. Čtyřmotorový celokovový stroj, jehož první prototyp vzlétl poprvé 16. října 1937 dostal pojmenování Sunderland Mk.I. Sunderlany Mk.I byly vybaveny motory Pegasus Mk.XXII, střeleckými věžemi v předě a zádě a otevíratelnými střelišti na hřbetě trupu. Bylo jich vyrobeno 90 ks, část z nich u firmy Blackburn. Verze Sunderland Mk.II dostala hřbetní střeleckou věž a silnější motory Pegasus Mk.XVIII. Společná výroba u Shortu a Blackburnu dal vzniknout 43 kusům této verze. Na některých kusech této verze byly použity první verze radarů se stromekovitými anténami ASV Mk.II. Zkušenosti z bojišť vedly k úpravám Sunderlandu. Výroba přešla na verzi Mk.III/IIIA. Trup této verze dostal nové, aerodynamicky výhodnější stupňové křídlo, ASV radar Mk.III v kapkovitém výstupku pod křídlem. Pozdější vyrobené kusy dostaly do předě výzbroj čtyř pevných kulometů určených k boji s obsluhami protiletadlových zbraní na vynořených ponorkách. Celkem bylo vyrobeno 456 kusů trojek. Vzhledem k tomu, že zvětšená verze Sunderland Mk.IV, později přeznačená na Seaford Mk.I se nevyrobila sériově, poslední verzi Sunderlandu v sériové výrobě se stala verze Sunderland Mk.V. Dostala americké motory P&W R-1830-90B a radar ASV Mk.VIC. Výroba byla ukončena až v červnu 1946 po vyrobení 150 kusů. Sériové Sunderlany Mk.I dostala jako první No.230 sqn. RAF v roce 1938. Na konci války se Sunderlany létalo dvacet squadron pod velením RAF a další squadrony pod velením spojeneckým. Bojovaly od prvního dne války až do jejího konce. Během válečných let se nesporně osvědčily. Nasazeny byly v nad oceány od Atlantiku, přes Indický oceán až po Pacifik. Spolehlivě sloužily na chladném severu v polárních oblastech, stejně jako v tropech. Vysloužily si, pro svou obrannou výzbroj, pojmenování létající díkobraz. Konec války neznamenal konec jejich služby. Sunderlany RAF se mohou pochlubit mimo jiné účastí v Korejském konfliktu, Berlínském mostu nebo bojů s komunistickými bojovky v Malajsku. Kromě britského RAF létaly v řadách australského, novozélandského, norského, jihoafrického a kanadského letectva, francouzského a portugalského námořnictva. U většiny zahraničních uživatelů již během války. Poslední novozélandské Sunderlany byly přitom vyřazeny až v roce 1967!

TTD verze Mk.V

Rozpětí: 34,39 m, délka: 26 m, max. rychlost: 343 km/h v 1900 m, operační dostup: 5457 m, dolet 3027 km, vytrvalost: 10/21 hodin při rychlosti 260/220 km/h, výzbroj: 2250 kg bomb či hlubiných bomb, 12x kulomet 7,7 mm, 2x kulomet 12,7 mm

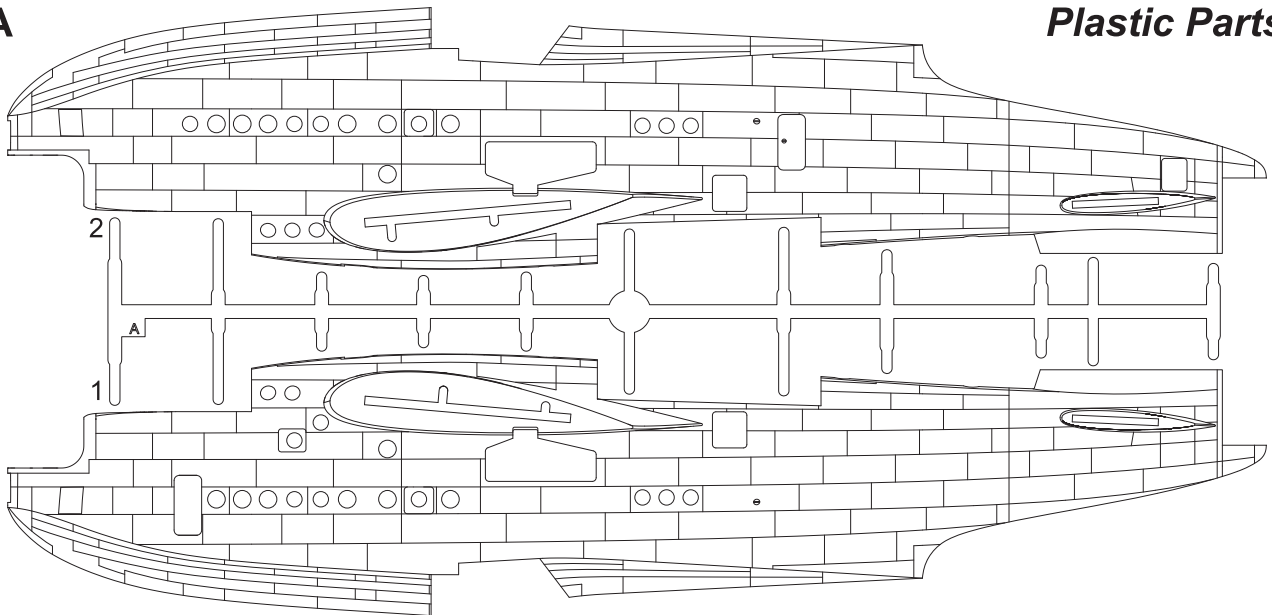
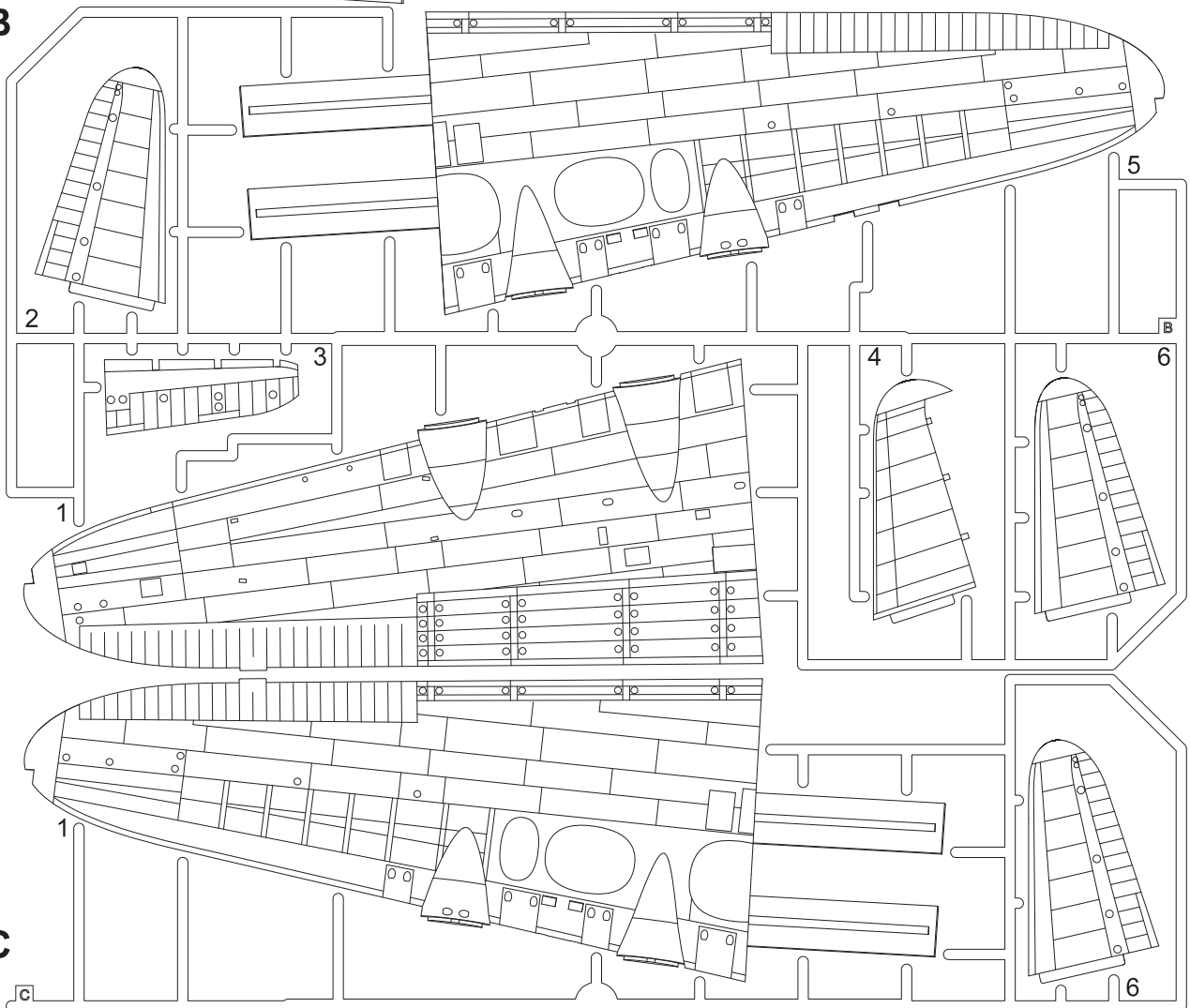
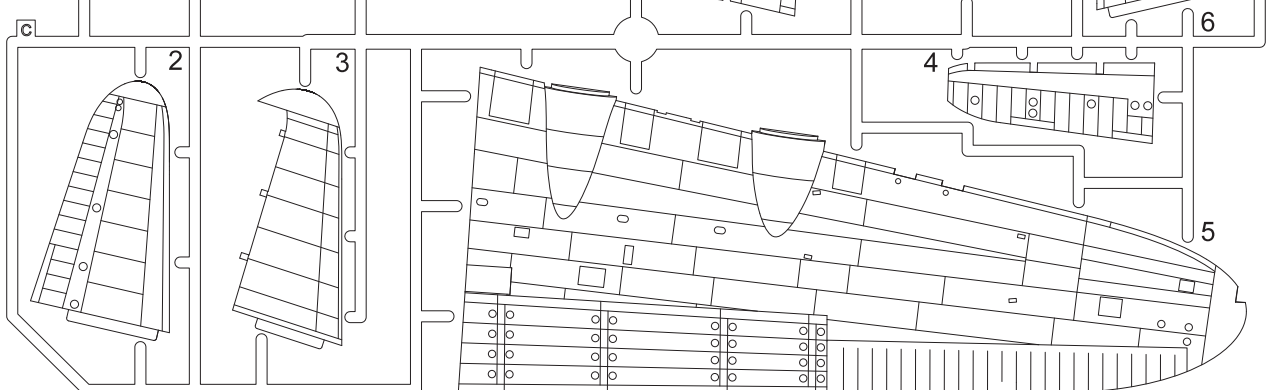
History

EN

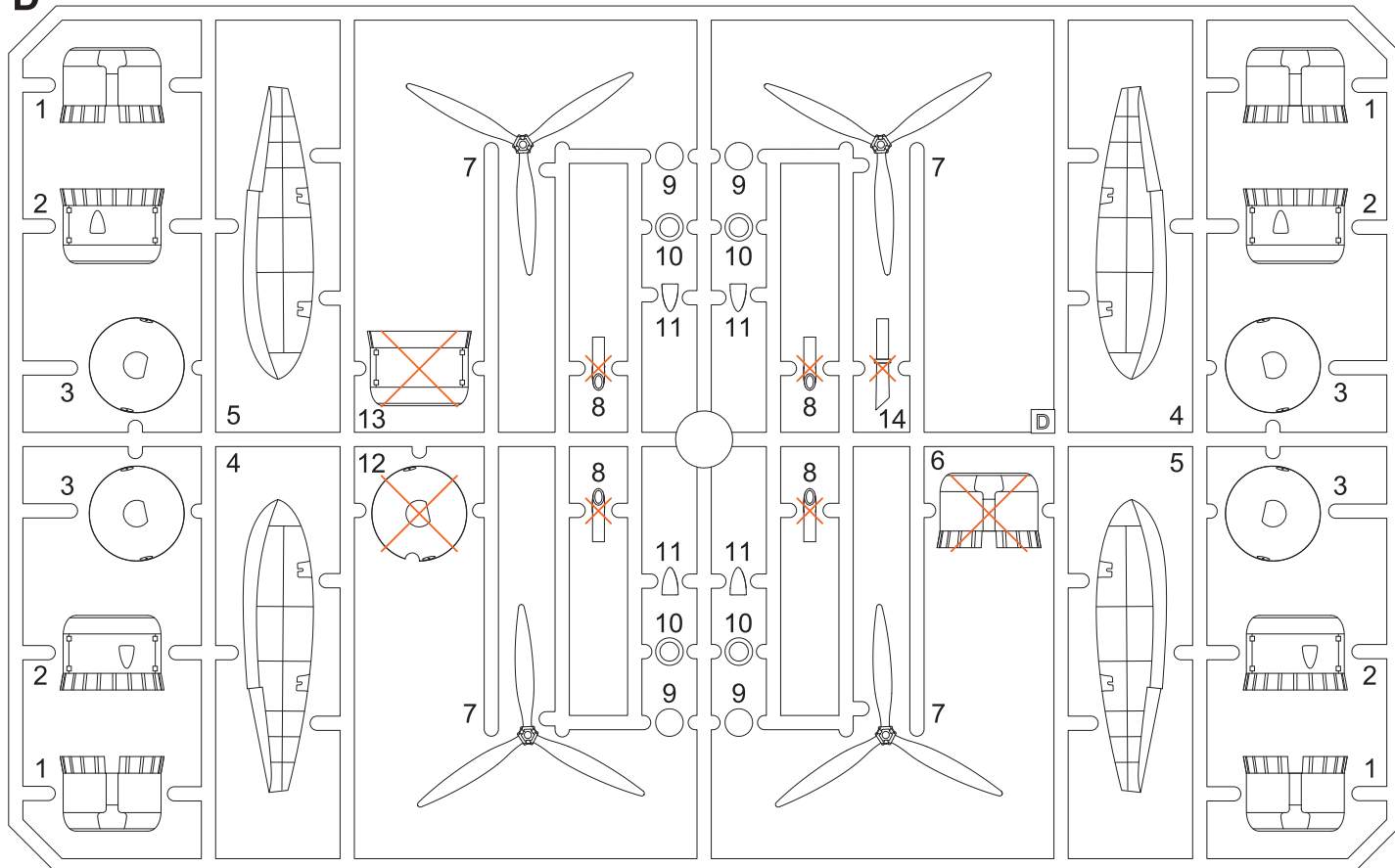
Short Brothers were one of the largest aircraft producers to undertake the development and manufacturing of multi engine flying boats. In the 1930s, when monoplanes of all metal construction were beginning to have the upper hand over biplane aircraft designs, Short Brothers developed a couple of all metal, four engine flying boats for the civilian market - these aircraft were known as the S.23, S.30 and S.33, or generally as the C-Class or Empire Class. Some of the machines were fitted with military equipment and saw service in the force. The experience gained during the production and operational service of these boats proved to be essential for the development of their successor, the Short S.25, which was designed to Specification R.2/33 that called for a long range flying boat suitable for anti submarine patrol and reconnaissance missions. The prototype of this aeroplane first took to the air on 16 October 1937 and got the name Sunderland Mk.I. The production machines were powered by Pegasus Mk.XXII engines and had gun turrets in the bow and stern and a pair of manually operated machine guns on either side of the upper fuselage. As many as ninety of them were produced, some of them at the Blackburn plant. The following variety, the Mk.II was fitted with a dorsal gun turret and more powerful engines in the shape of the Pegasus Mk.XVIII. The Short and Blackburn plants produced in total 43 airframes of this mark, some of which were experimentally equipped with the first generation of ASV Mk.II radars with an array of tree-like antennae. Combat experience gained in the field even led to a couple more improvements which enabled the production of the Mk.III/IIIA version. The hull was reshaped at the keel step and got a much smoother profile and the machines also had a new type of ASV radar fitted under their wings, where the radar dishes were placed in large teardrop-shaped housings. Later machines were even equipped with four fixed machine guns in their nose sections, which were meant to be used against anti-aircraft defence of emerged German submarines. In total, 456 of the Sunderland Mk.III were produced. A production of an enlarged variety, known as the Sunderland Mk.IV (later renamed to Seaford Mk.I) was also planned, though it never materialised. The final version of this flying boat was the Mk.V, which was powered by American P&W R-1830-90B units, used ASV Mk.VIC radar equipment and was in production until June 1946, giving in total 150 machines. The first production Mk.I machines saw operational service with No.230 Sqn of the RAF, and by the end of the War, twenty RAF units operated the Sunderland along with a few more of the Allied forces. The Sunderland proved useful for the Allied war effort right from the outset of the hostilities and remained so until the end of the conflict. These flying boats were operated over the vast expanses of the Atlantic Ocean as well as the Indian Ocean and the Pacific and proved to provide reliable service in such different environments as the cold polar areas and over the tropical seas. For their heavy armament, they got the nickname the 'Flying Porcupine'. The end of the horrible world conflict did not manage to bring the faithful service of the Sunderland to an end. These magnificent flying boats went on serving with the RAF in the Korean war, during the Berlin Airlift Operation and even fighting communist insurgents in Malaya. Besides the RAF, they flew with the Australian, New Zealandian, South African, Norwegian and Canadian air forces as well as with the French and Portuguese navies, in most cases already during the war. The last Sunderlands to fly were those operated by the RNZAF and they were struck off charge as late as 1967.

Mk.V Specification / Performance

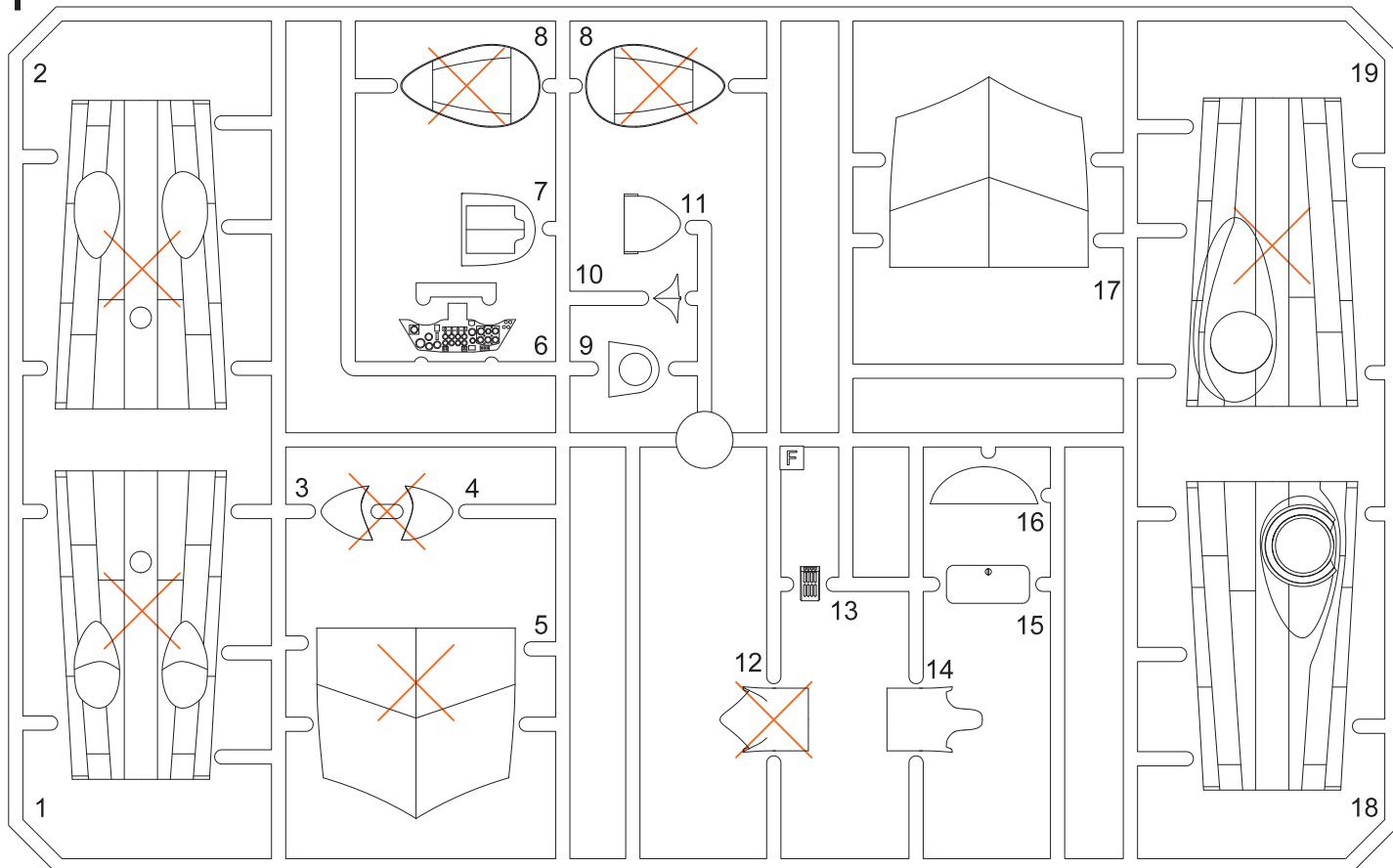
Wingspan: 34.39 m, (112ft. 9.5in) Length: 26 m, (85 ft.3.5 in) Height 10.01m (32 ft.10.5in) Max. speed: 343kph(213 mph) Service ceiling 5457m (17900 ft.) Range at cruising speed 3027 km (1880 m) Defensive armament: 12x 7.7 mm (.303 in.) 2x 12.7 mm (.5in) machine guns. Offensive ordnance 2250 kg (4960lbs)

A**Plastic Parts****B****C**

D



F



SYMBOLS



MOŽNOST VOLBY
OPTIONAL
NACH BELIEBEN
OPTION



POUŽIT KYANOAKRYLÁTOVÉ LEPIDLO
INSTANT CYANOACRYLATE GLUE
ZYANOAKRYLATKLEBER
COLLE CYANOACRYLAT



OHNOUT
BEND
BIEGEN
COURBER



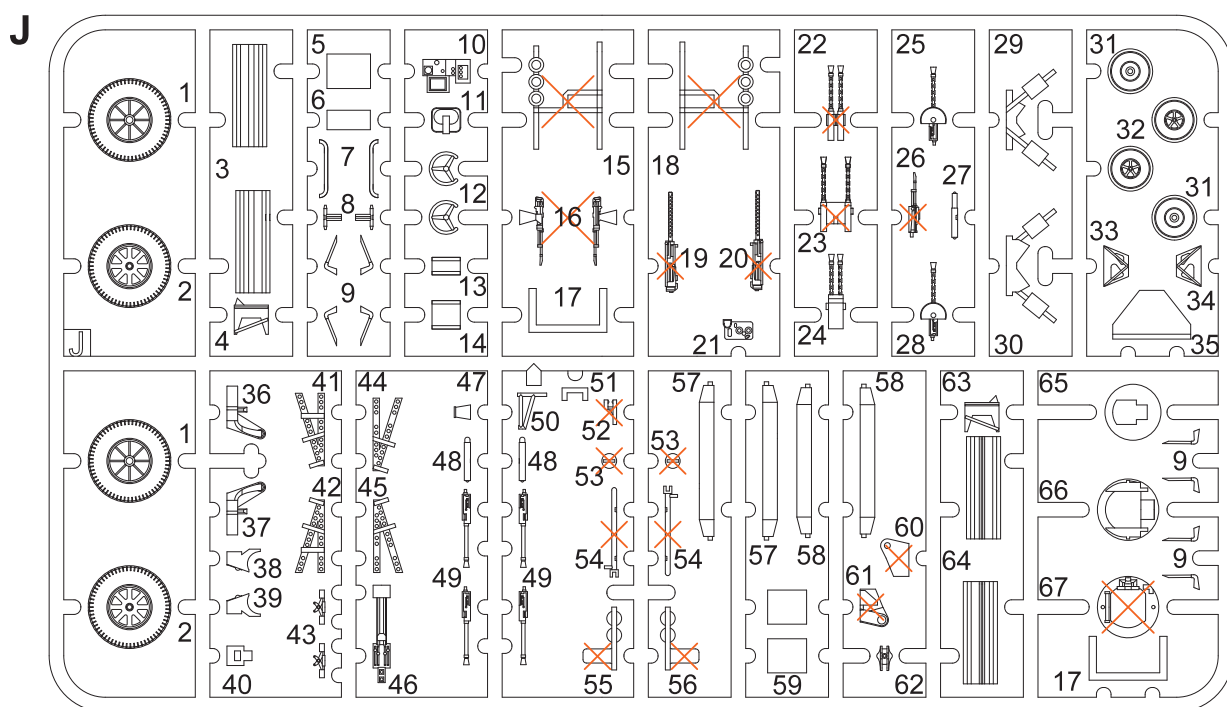
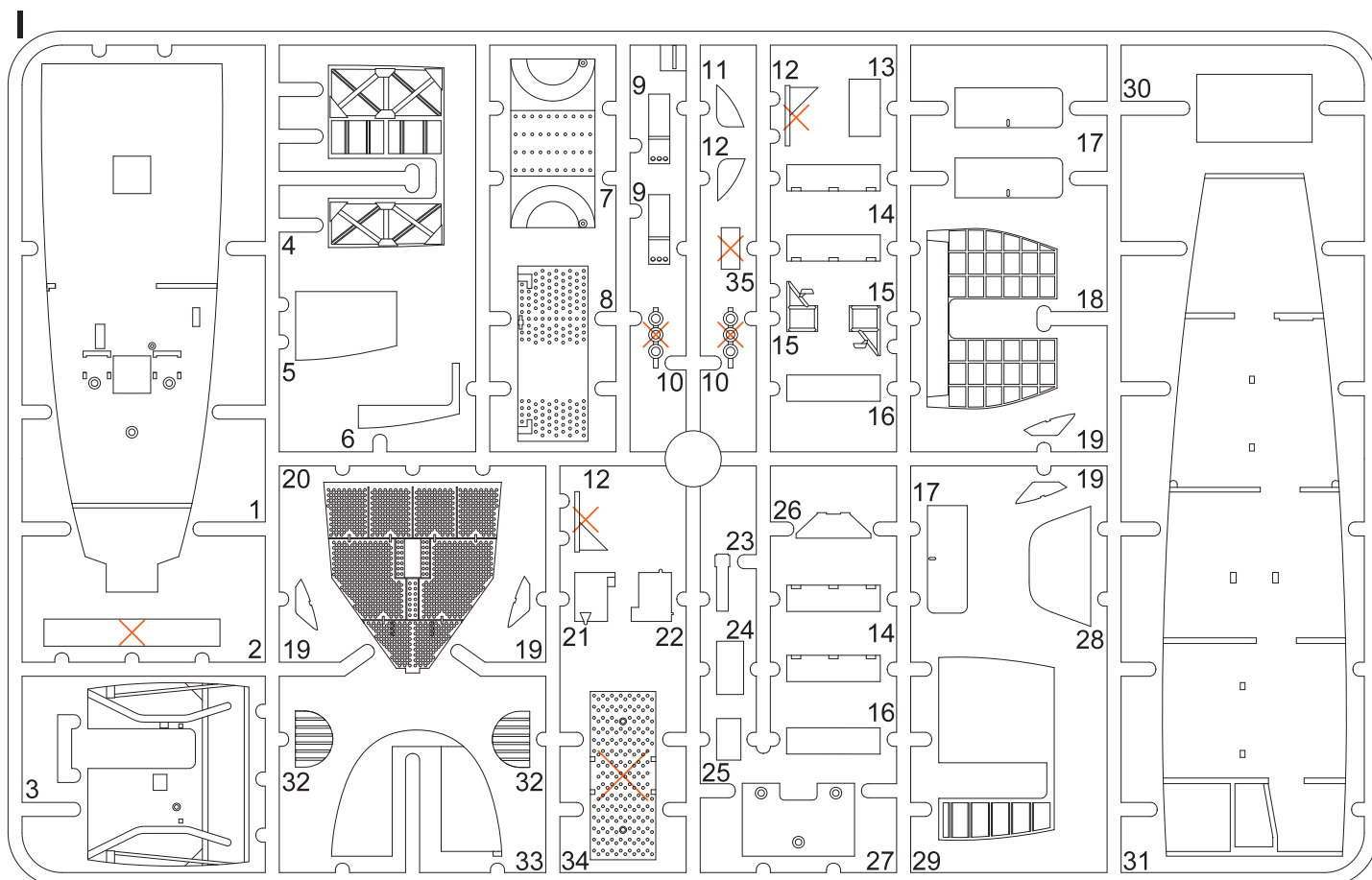
ZHOTOVIT NOVÉ
SCRATCH BUILD
FERTIGSTELLEN
ACHEVER



ŘEZAT/VRTAT
CUT OFF/DRILL
ENTFERNEN
DETACHER

GSI
colour code

NATŘÍT
COLOUR
FARBEN
PEINDRE

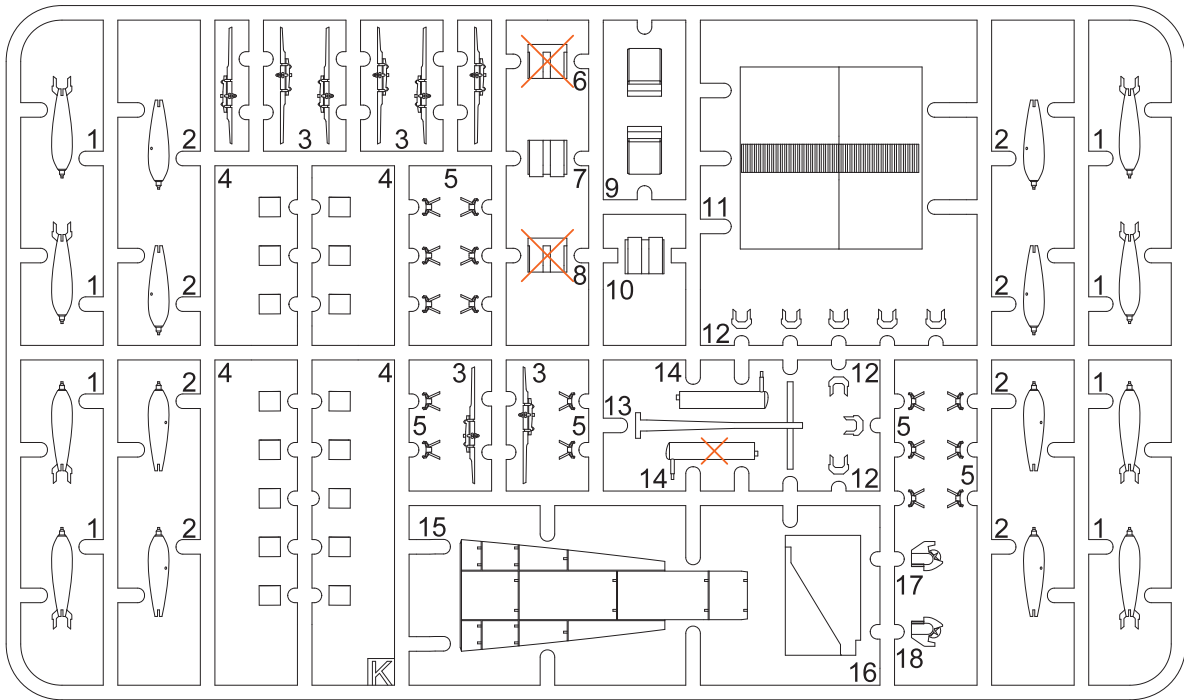


Tento díl nepoužít ✗ Do not use this part

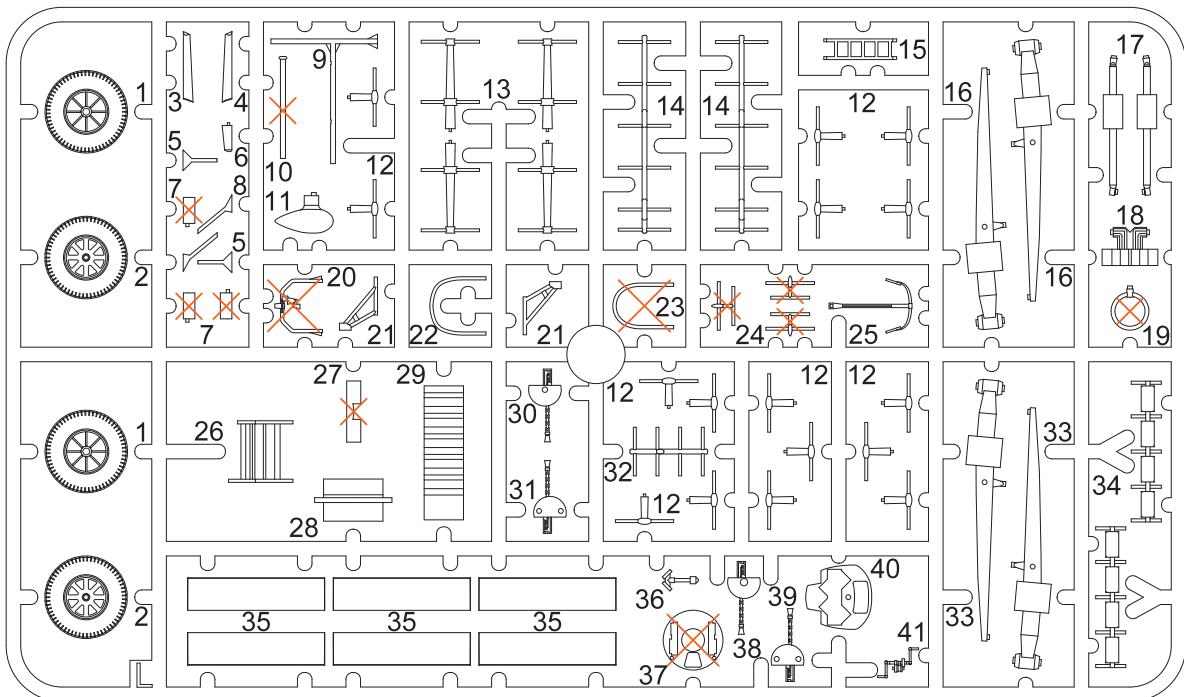
Barvy GUNZE/ GUNZE Colour No.

A Černá/ Black	H12/ C33	H Žlutá/ Yellow	H4/ C4
B Barva pneu/ Tire Black	H77/ C137	I Barva plátna/ Tan	H27/ C44
C Tmavý kov/ Dark Iron	H28/ C78	J Bílá/ White	H28/ C78
D Hliník/ Aluminium	H8/ C8	K Dřevo/ Wood	H37/ C43
E Inter. šedozelená/ Inter. Grey Green	C364	L Opálený kov/ Burnt Iron	H76/ C61
F Motorová šedá/ Engine Grey	H339/ C339	M Barva kůže/ Red Brown	H17/ C29
G Červená/ Red	H43/ C100		

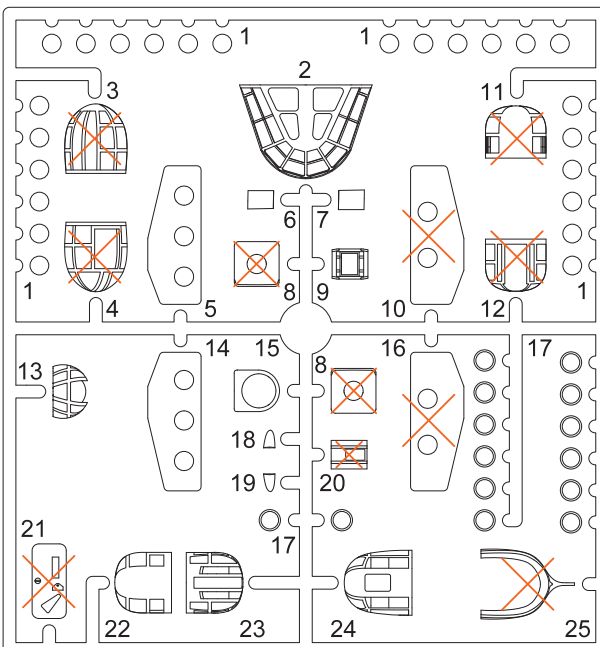
K



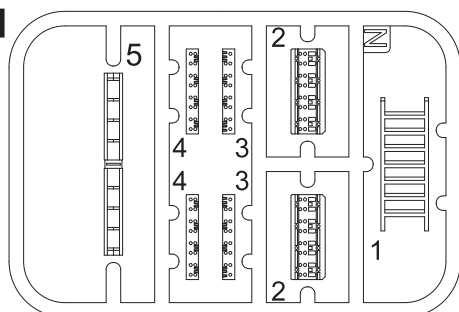
L



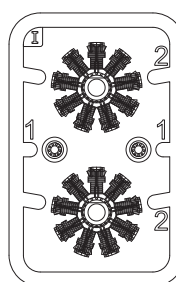
**CP
(Clear
Parts)**



N



2x I



PUR 4x

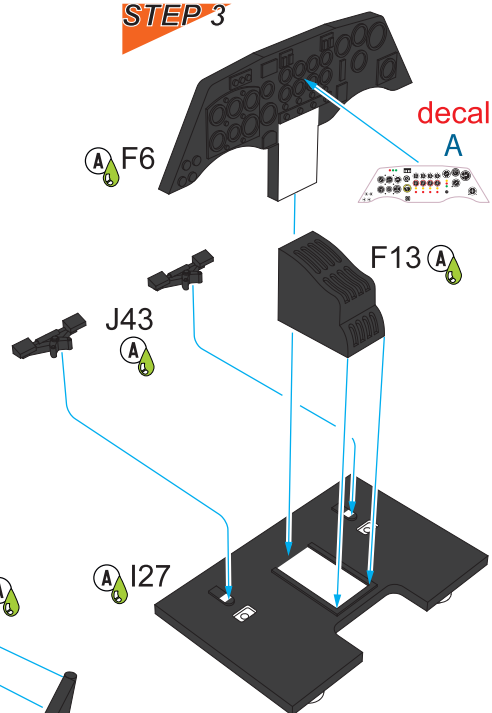
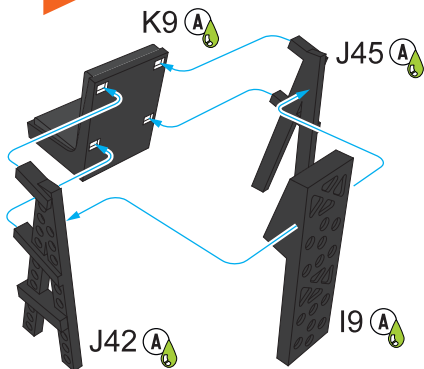
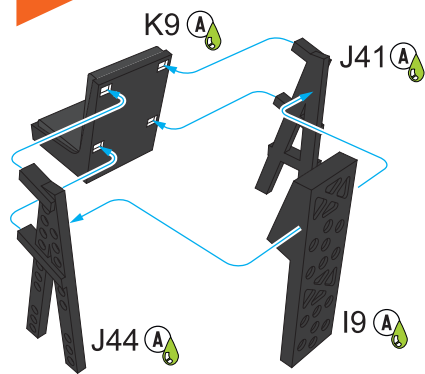


STEP 1

Assembly

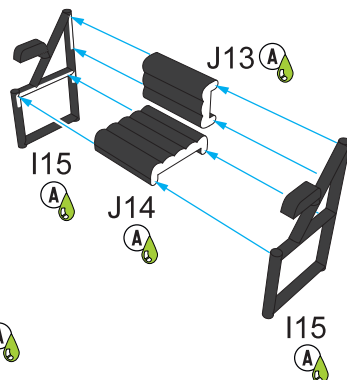
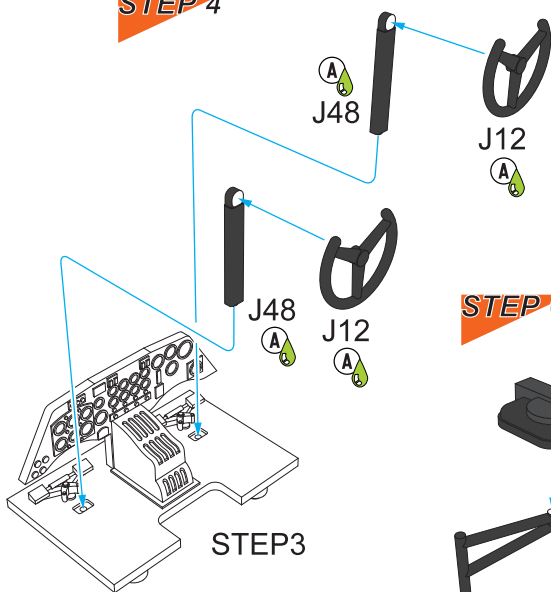
STEP 2

STEP 3



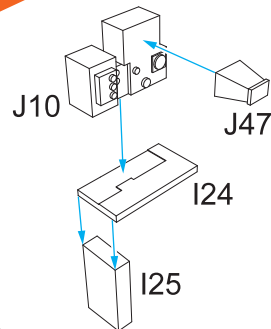
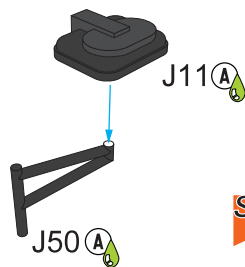
STEP 4

STEP 5



STEP 6

STEP 7



STEP 9

STEP 8

STEP 7

STEP 5

STEP 6

STEP 4

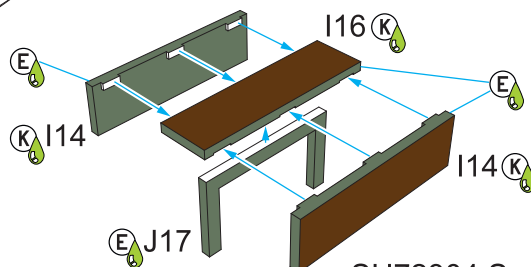
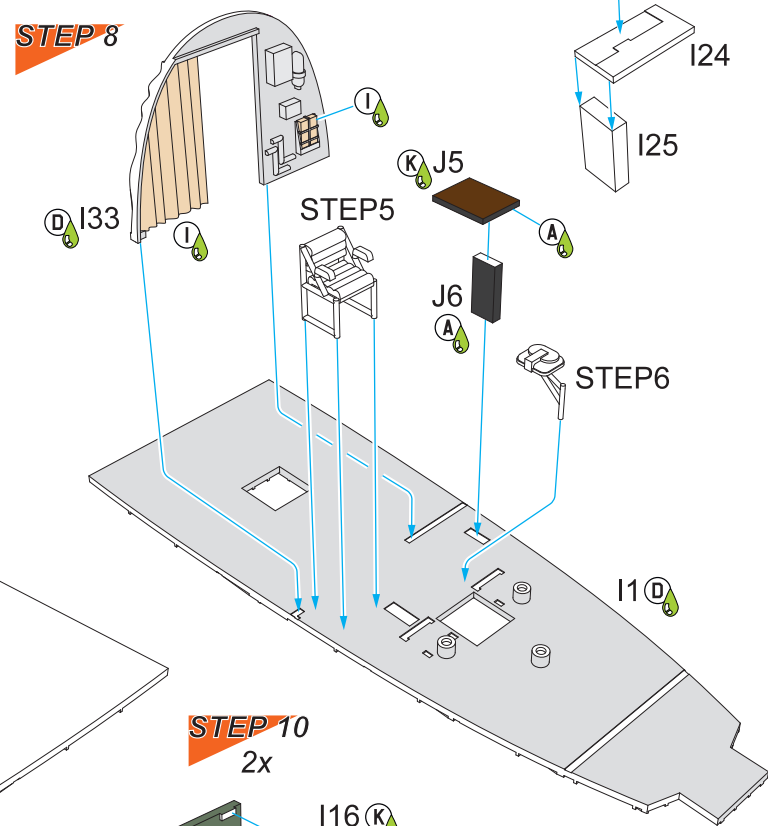
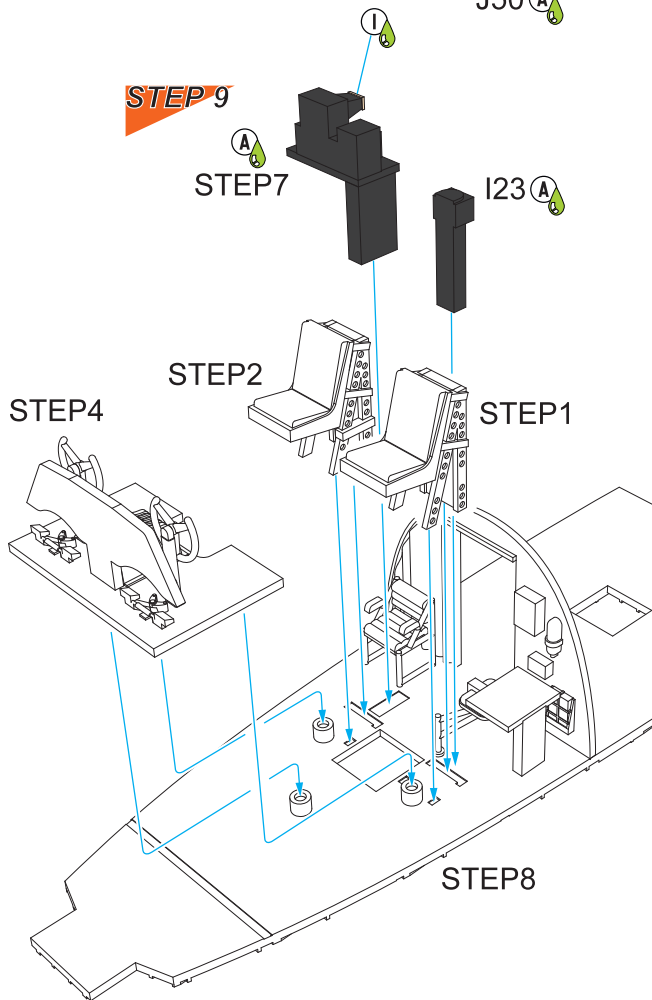
STEP 2

STEP 1

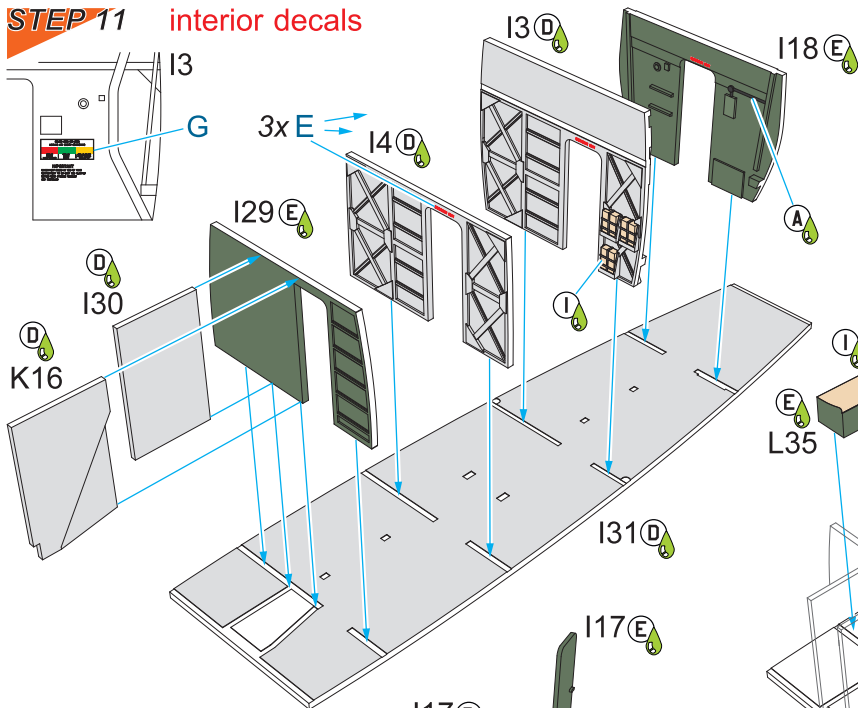
STEP 8

STEP 10

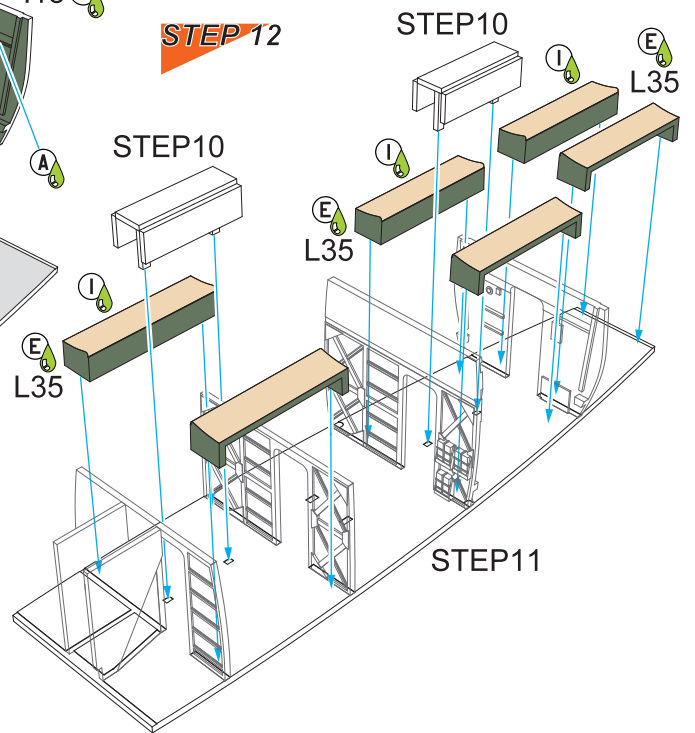
2x



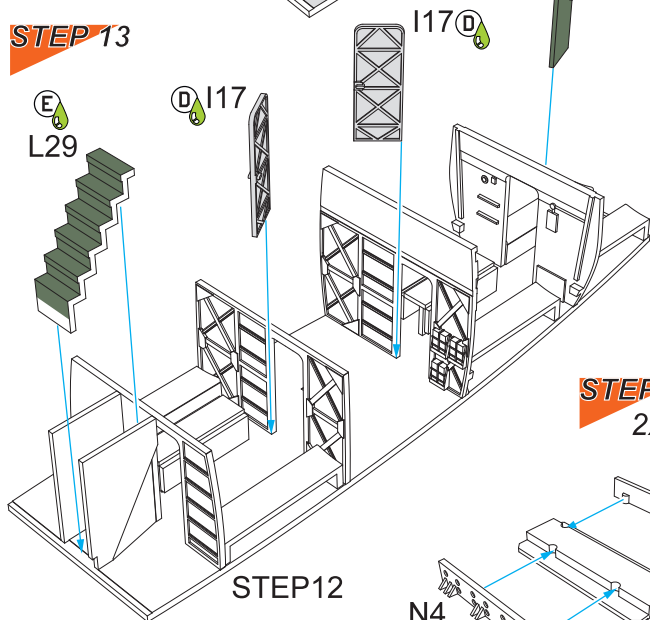
STEP 11 interior decals



STEP 12

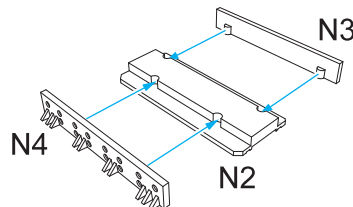


STEP 13

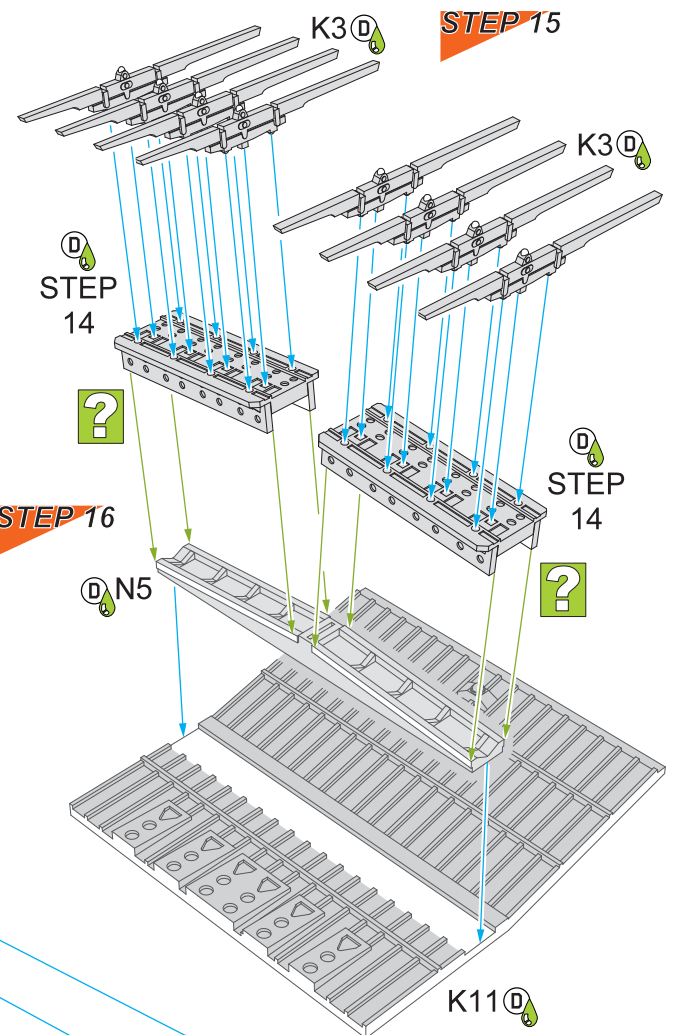


STEP 14

2x

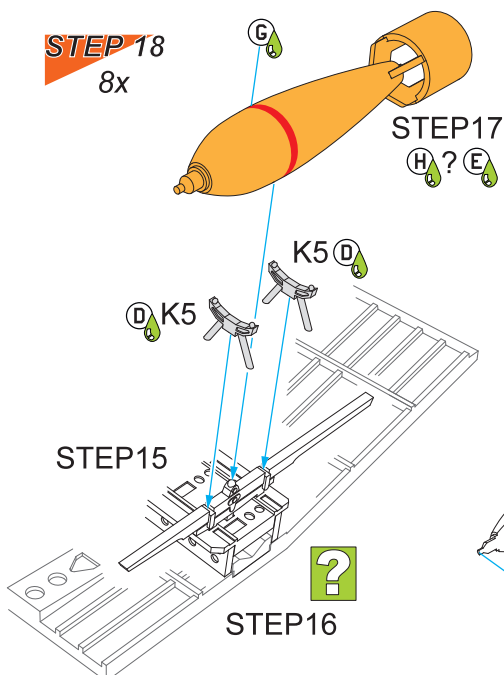


STEP 15



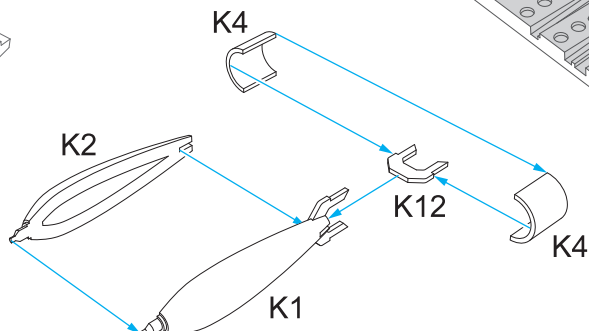
STEP 18

8x

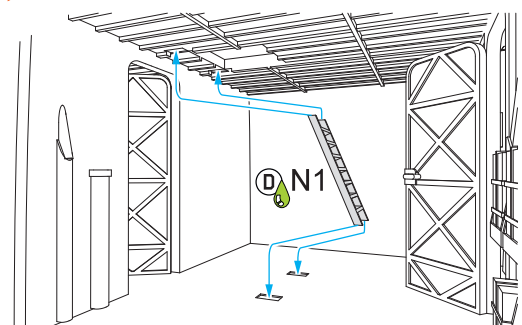


STEP 17

8x



STEP 20



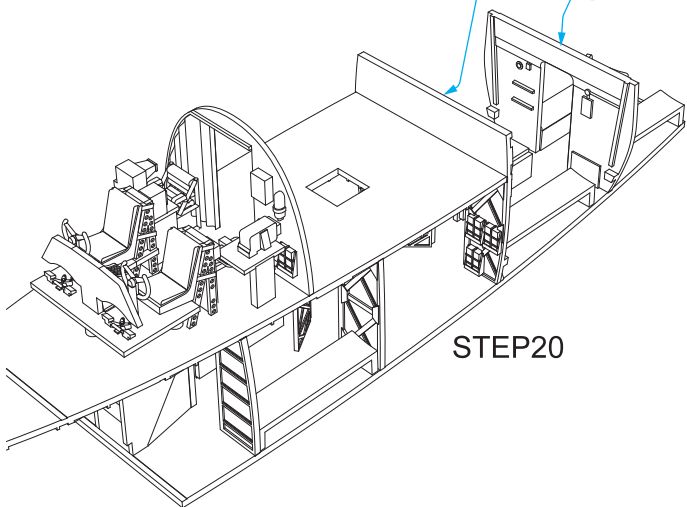
STEP19

STEP16



STEP18

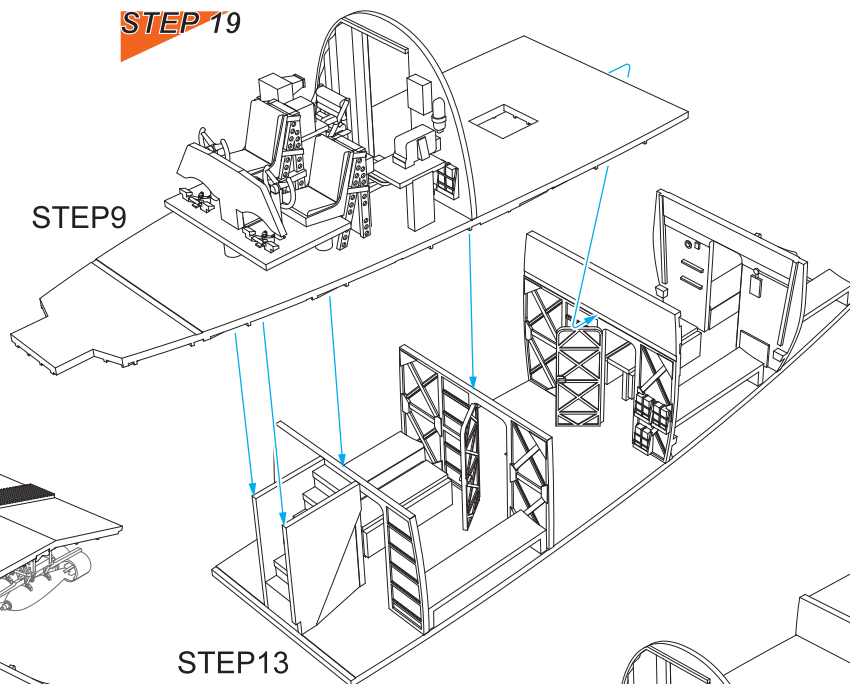
STEP 21



STEP20

STEP 19

STEP9



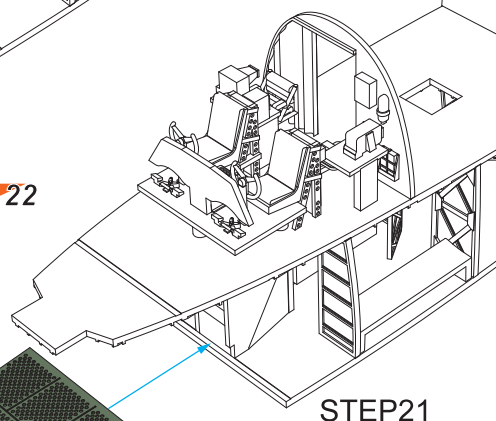
STEP13

STEP 22

J35 E

I26 E

E I20

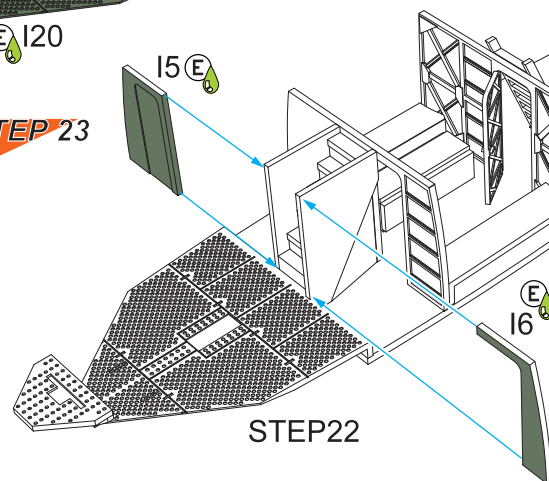


STEP21

STEP 23

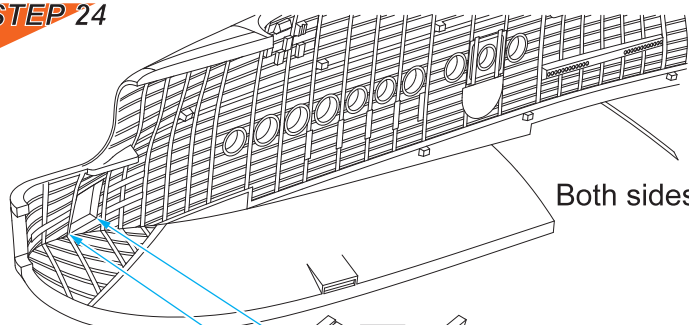
I5 E

E I6



STEP22

STEP 24



Both sides

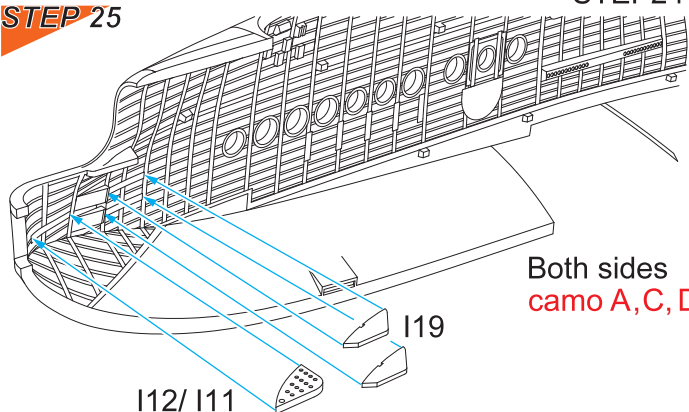
camo A,C,D K7/ K10



J59 camo B

STEP 25

STEP24



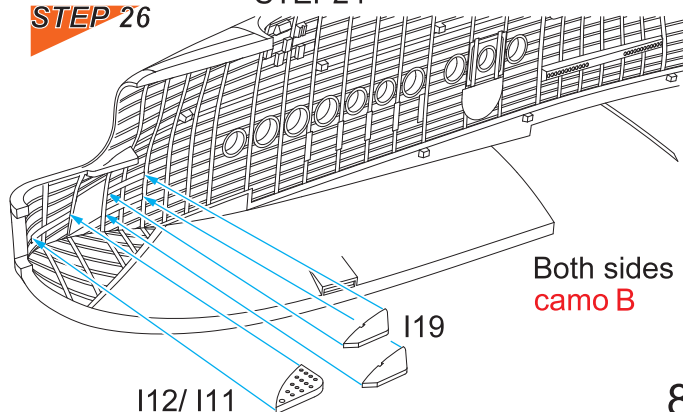
Both sides
camo A,C,D

I12/ I11

I19

STEP 26

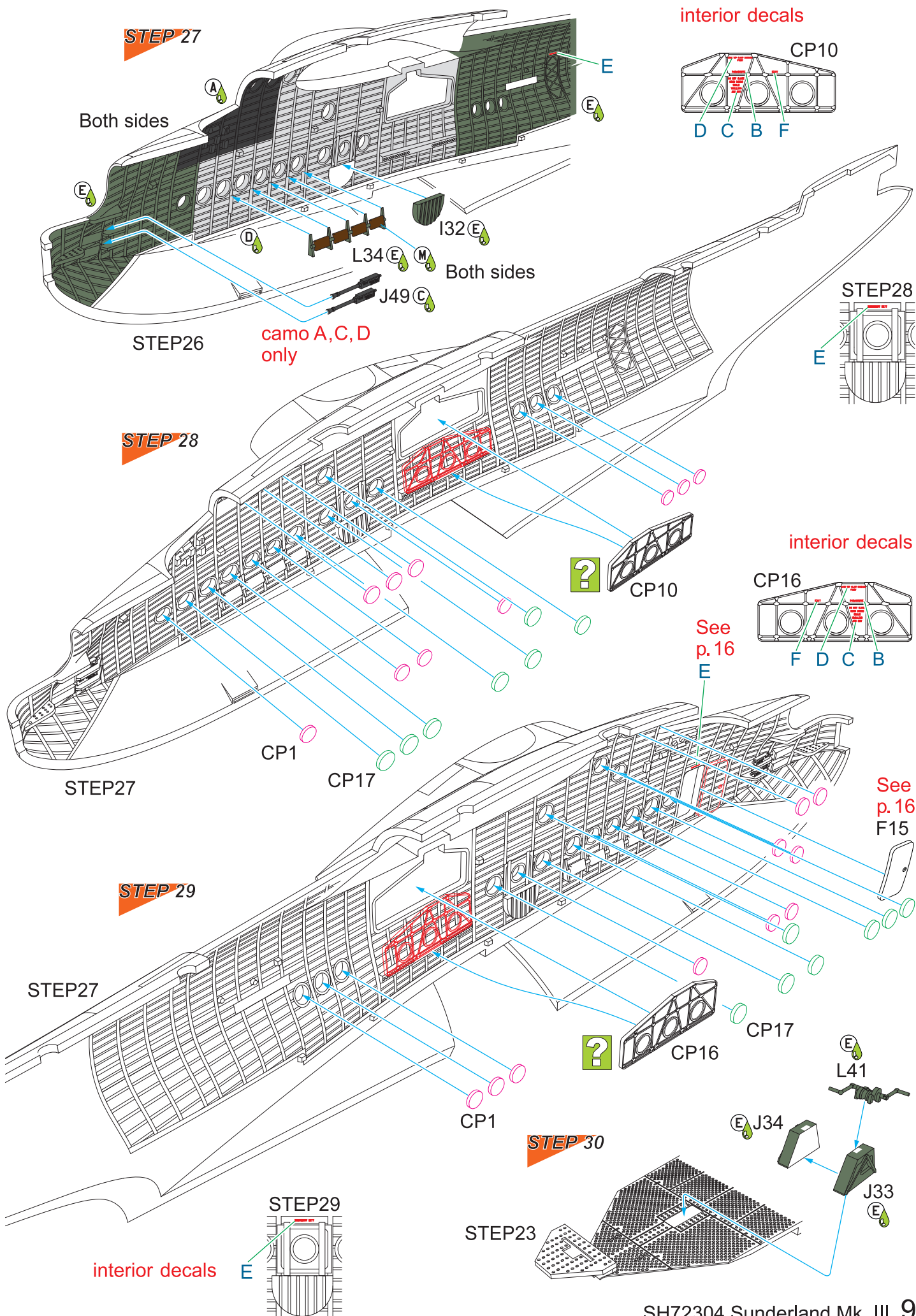
STEP24



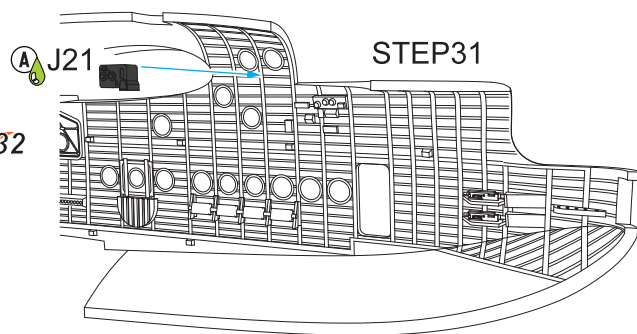
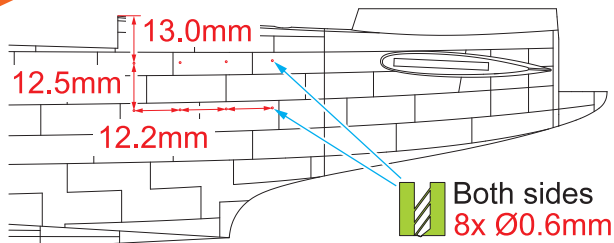
Both sides
camo B

I12/ I11

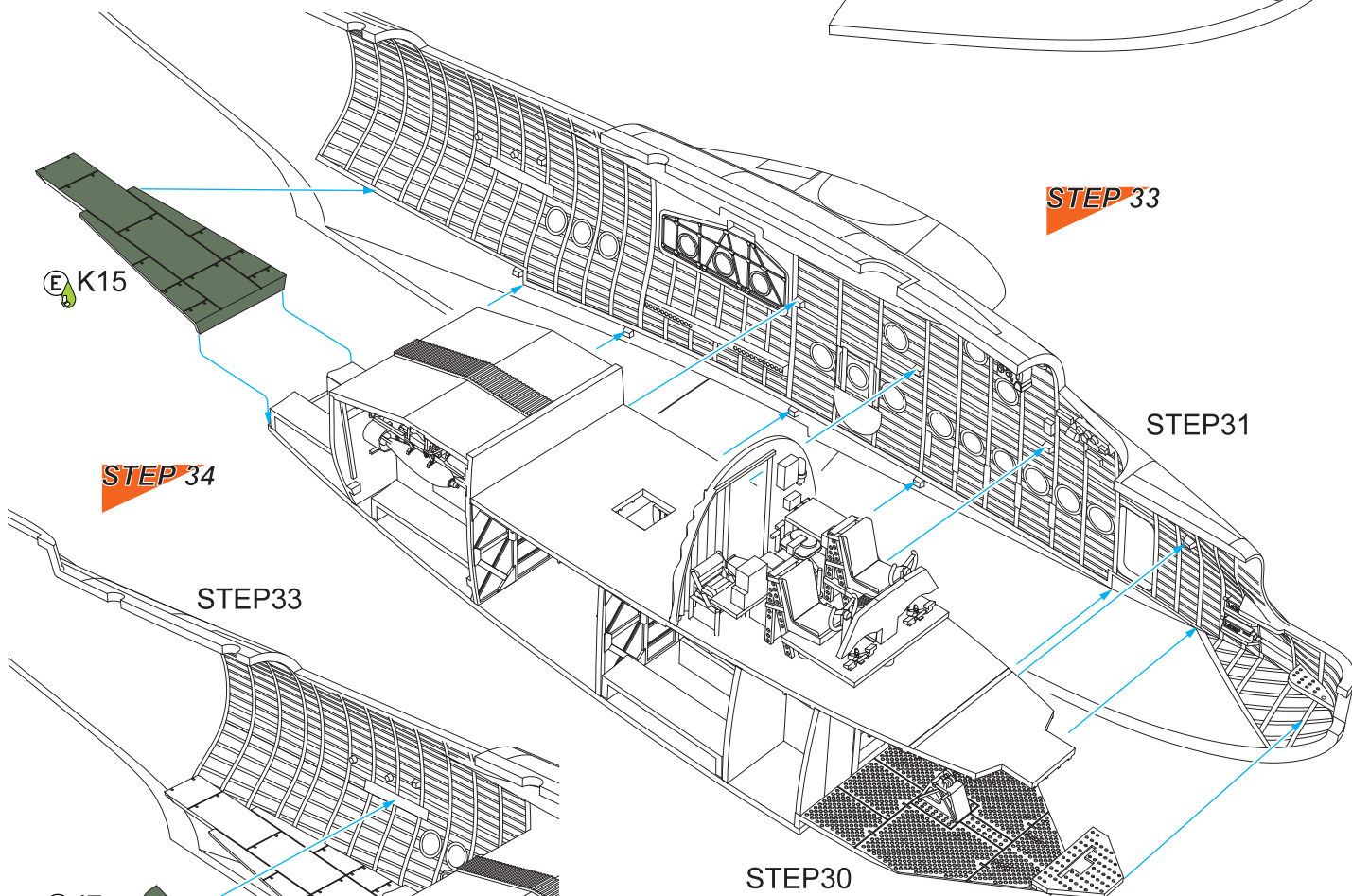
I19



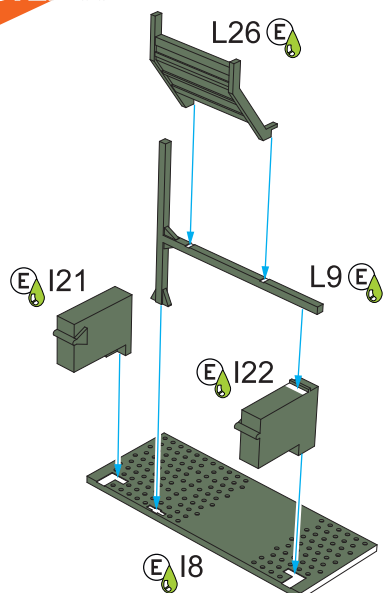
STEP 31



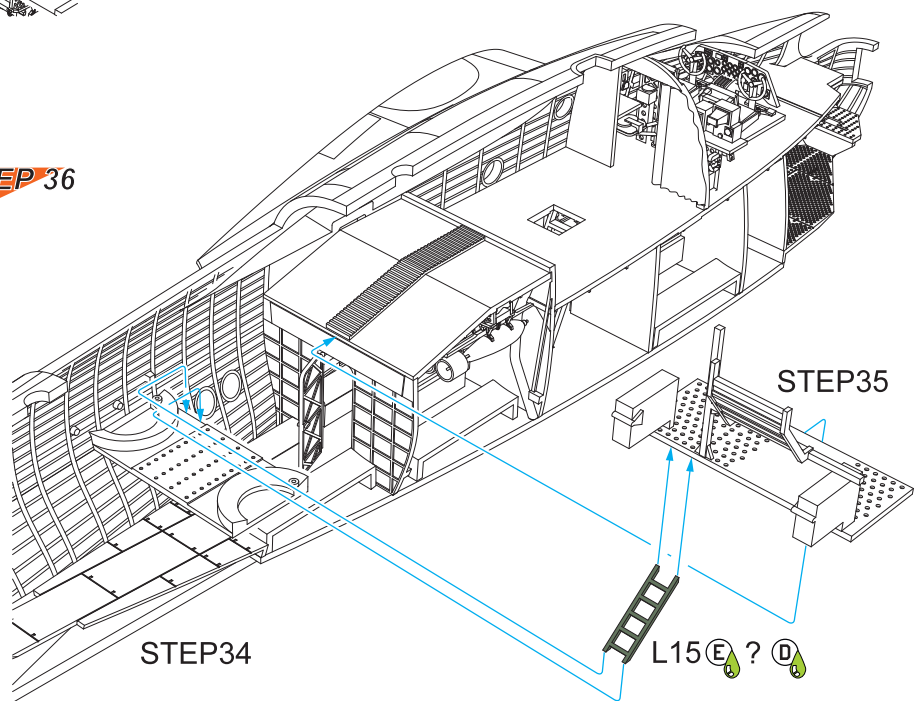
STEP 32



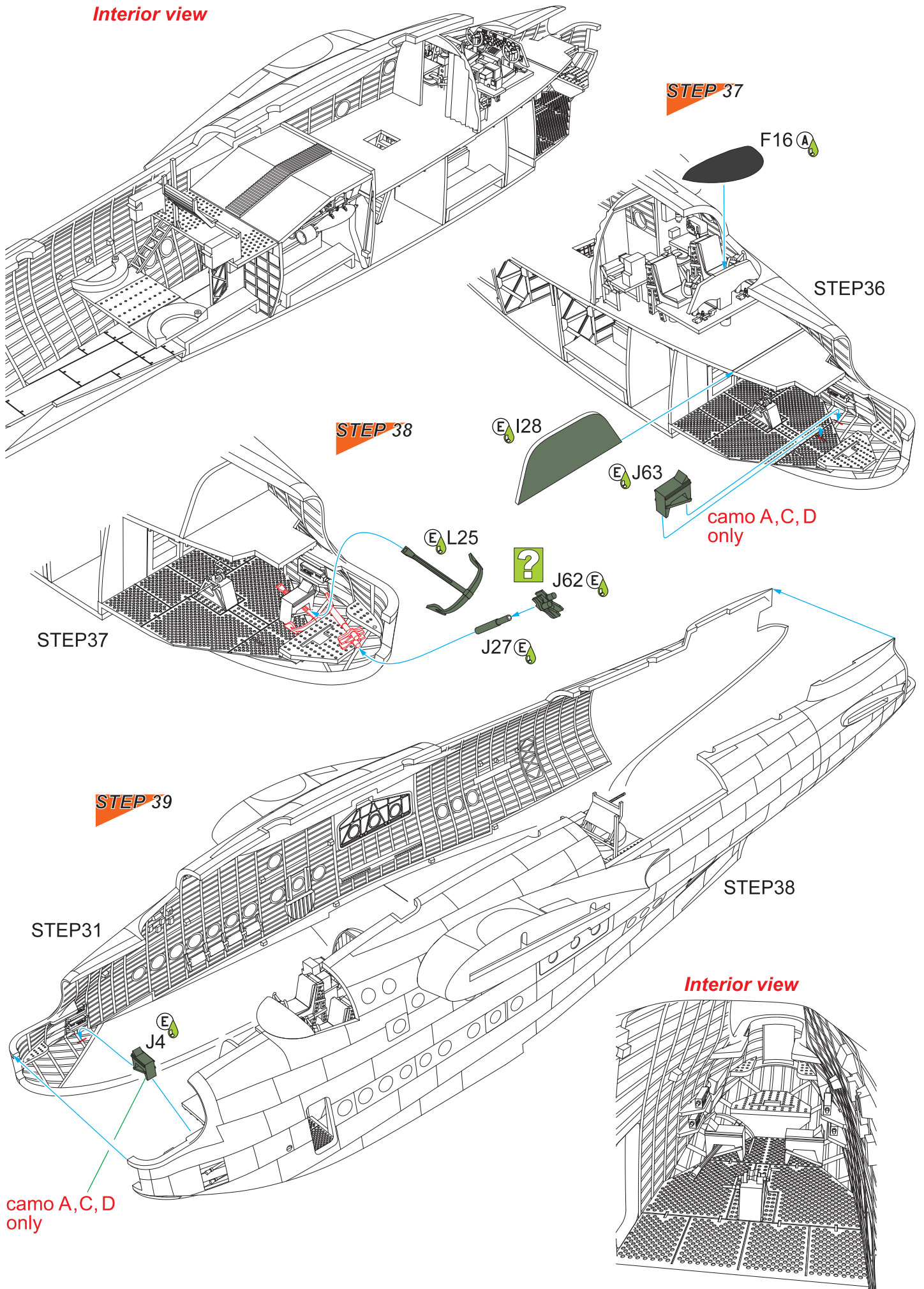
STEP 35



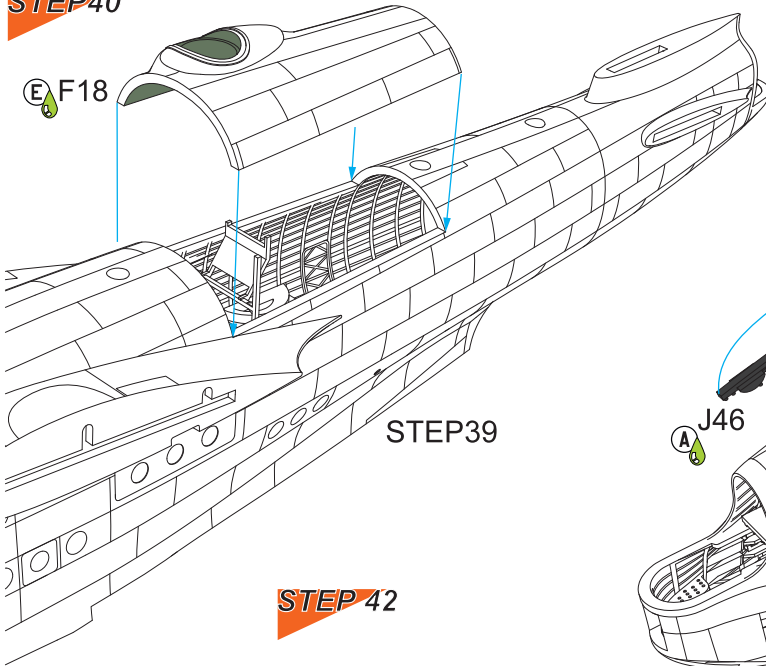
STEP 36



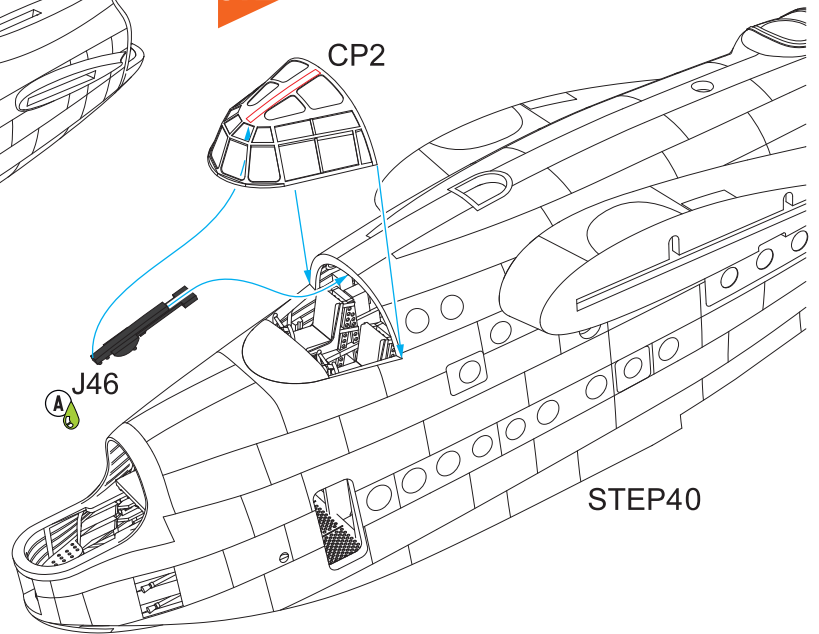
Interior view



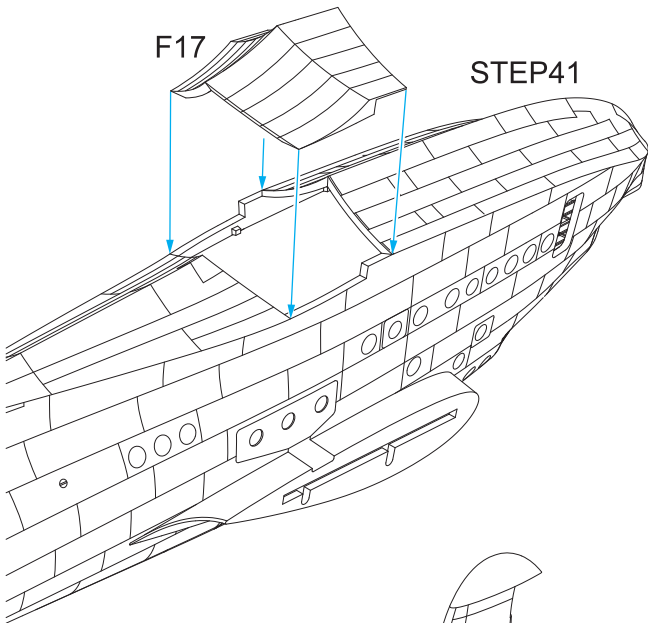
STEP 40



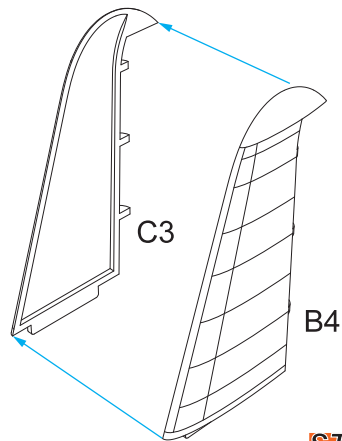
STEP 41



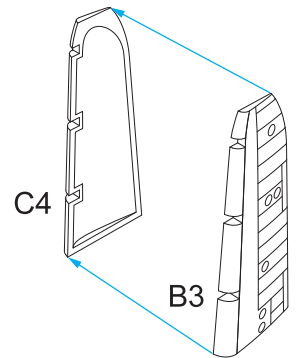
STEP 42



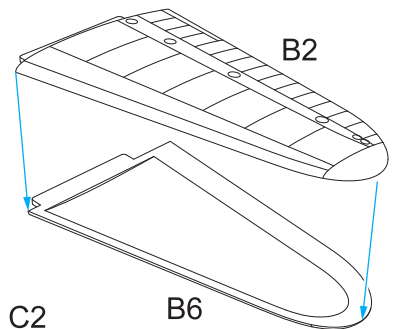
STEP 44



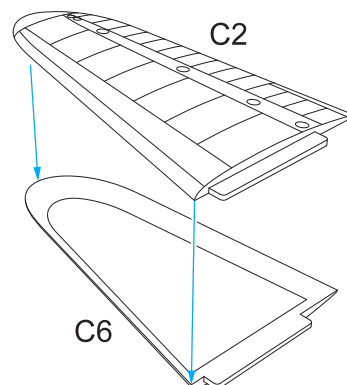
STEP 43



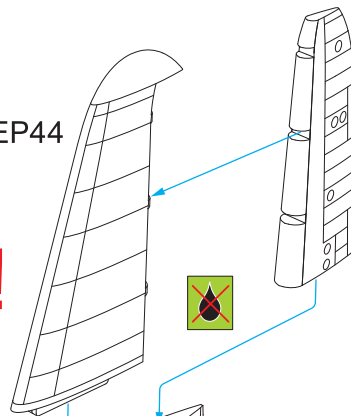
STEP 45



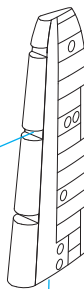
STEP 46



STEP 44

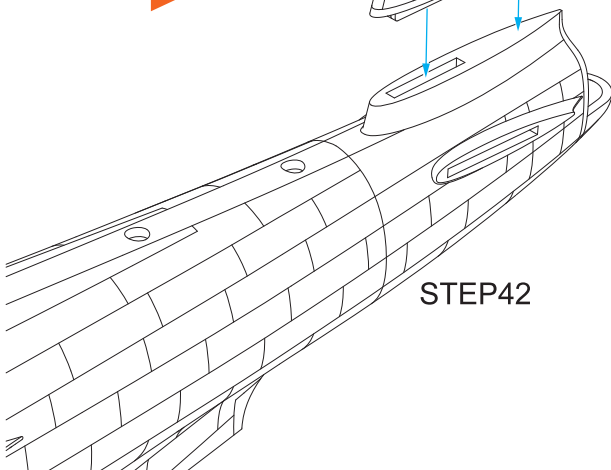


STEP 43



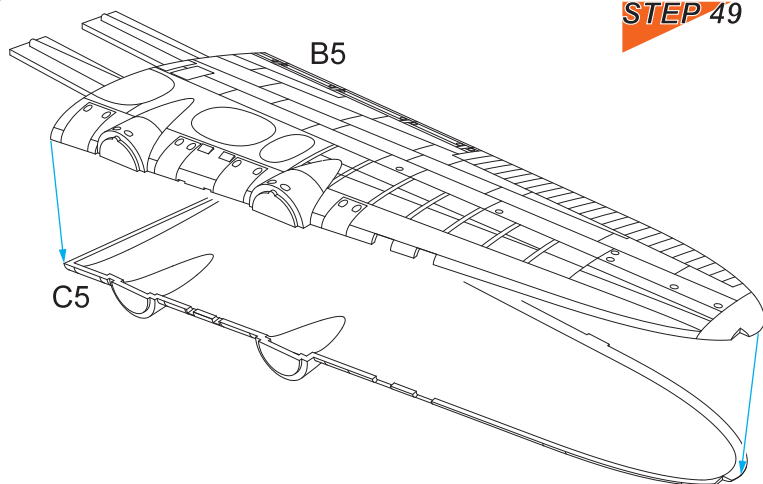
Test fit first,
glue in step 51!

STEP 47

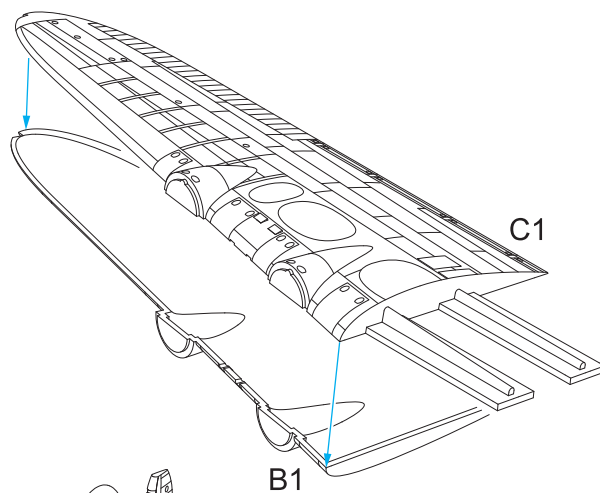


STEP 42

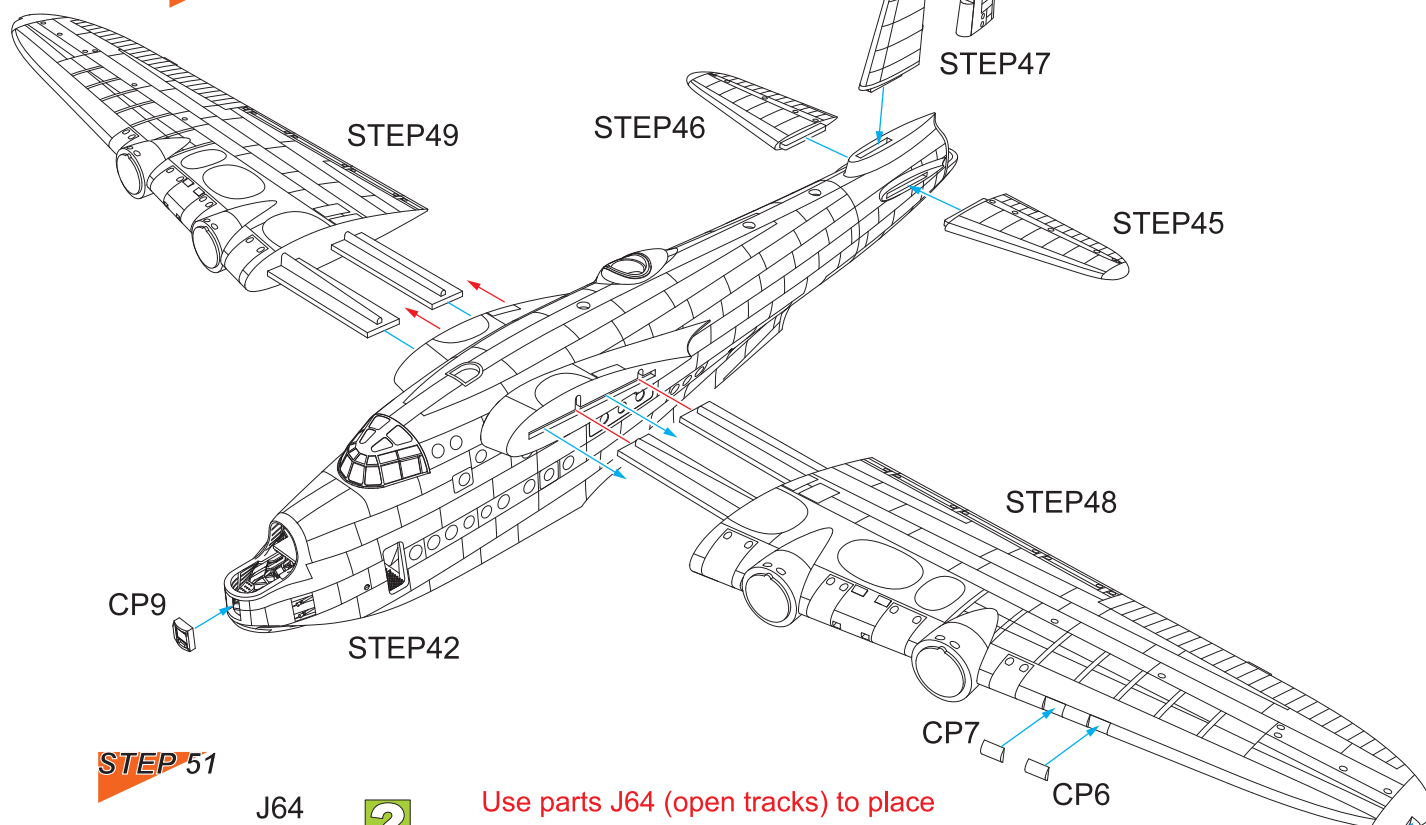
STEP 48



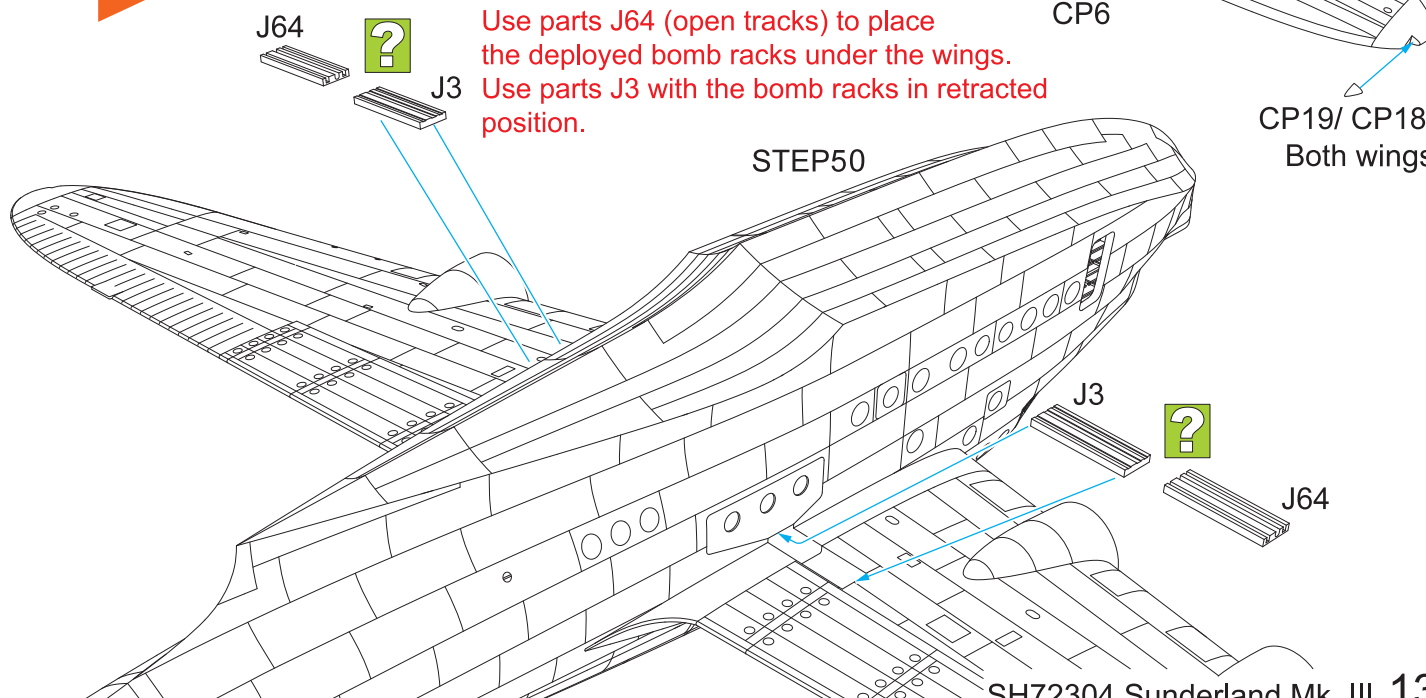
STEP 49



STEP 50



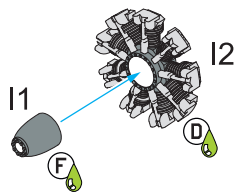
STEP 51



Use parts J64 (open tracks) to place the deployed bomb racks under the wings. Use parts J3 with the bomb racks in retracted position.

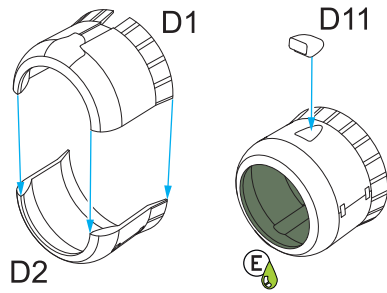
STEP 52

4x



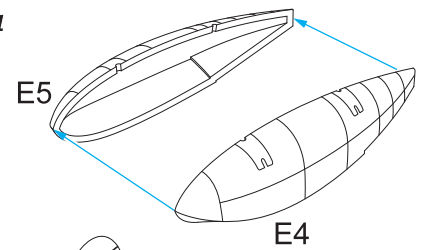
STEP 53

4x

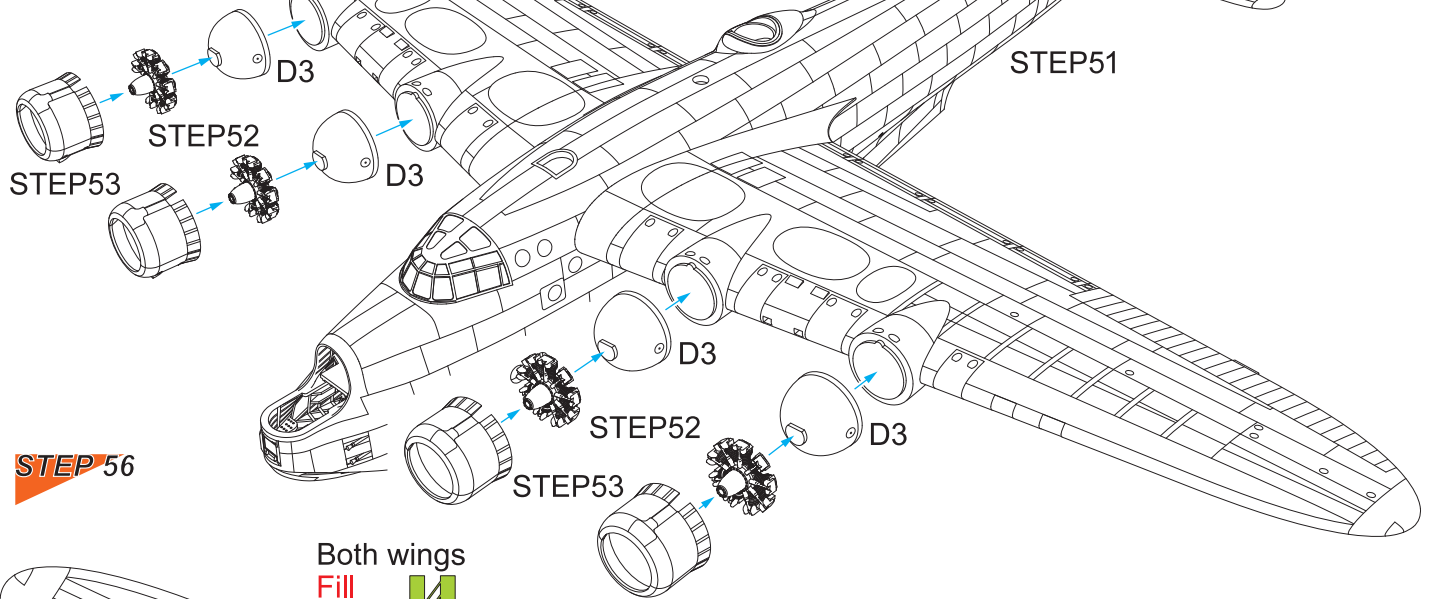


STEP 54

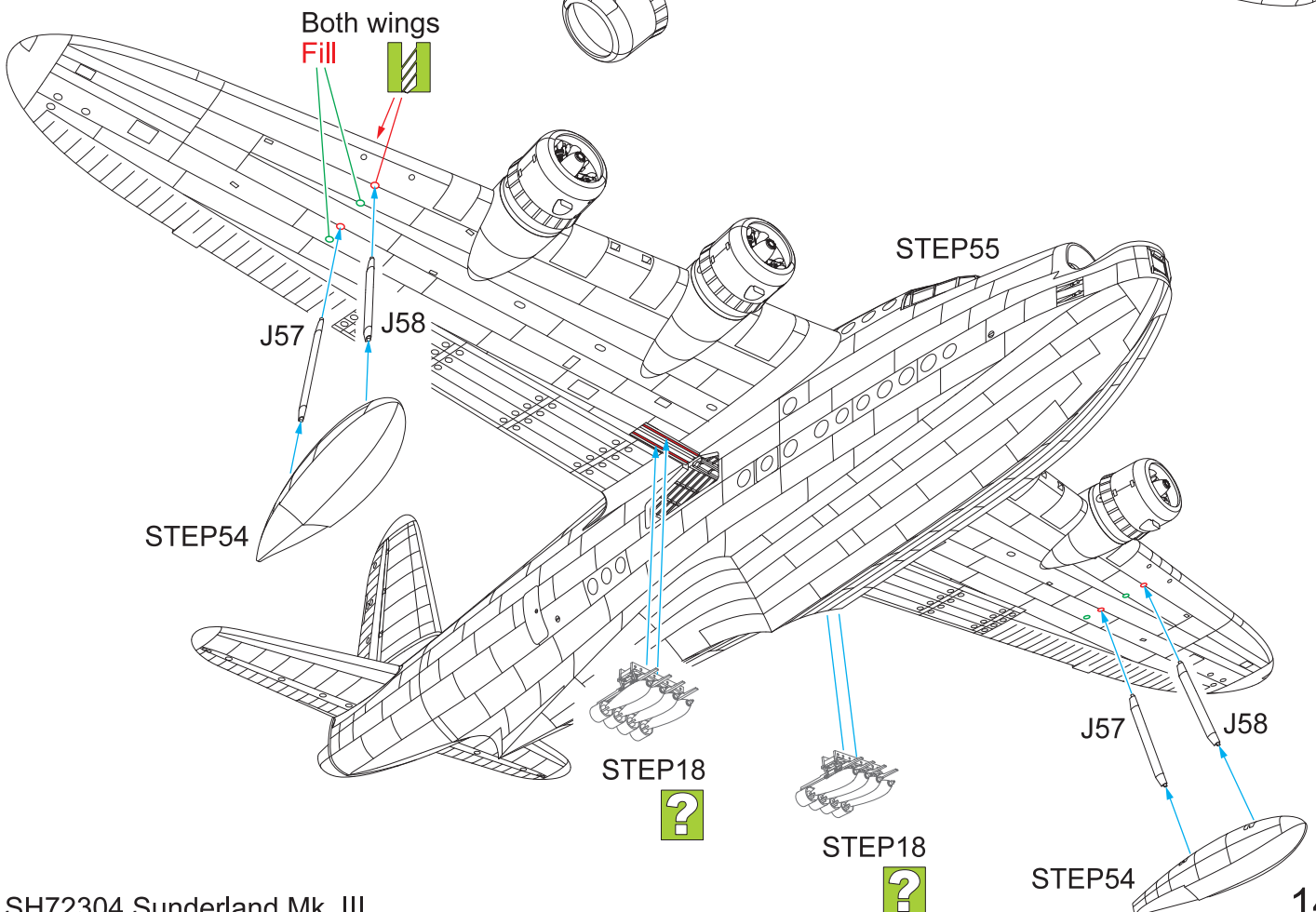
2x



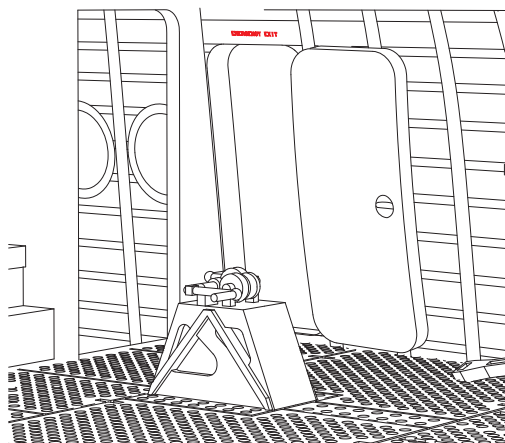
STEP 55



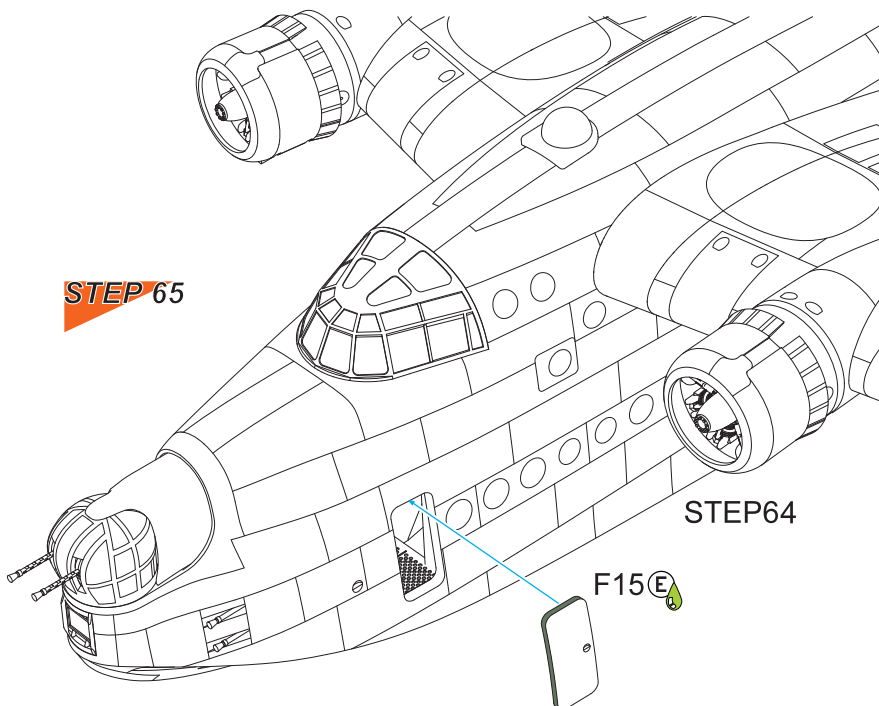
STEP 56



Interior view with the front door open

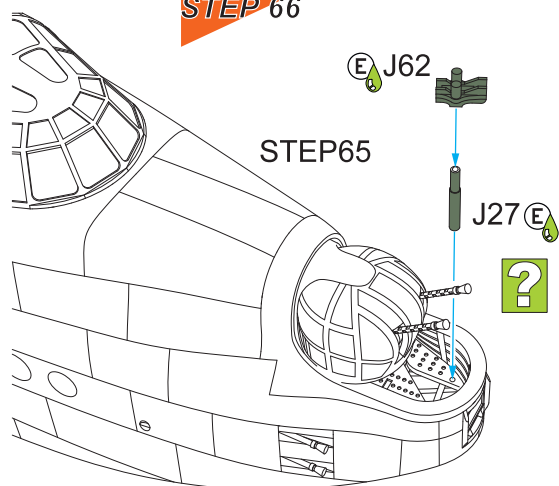


STEP 65



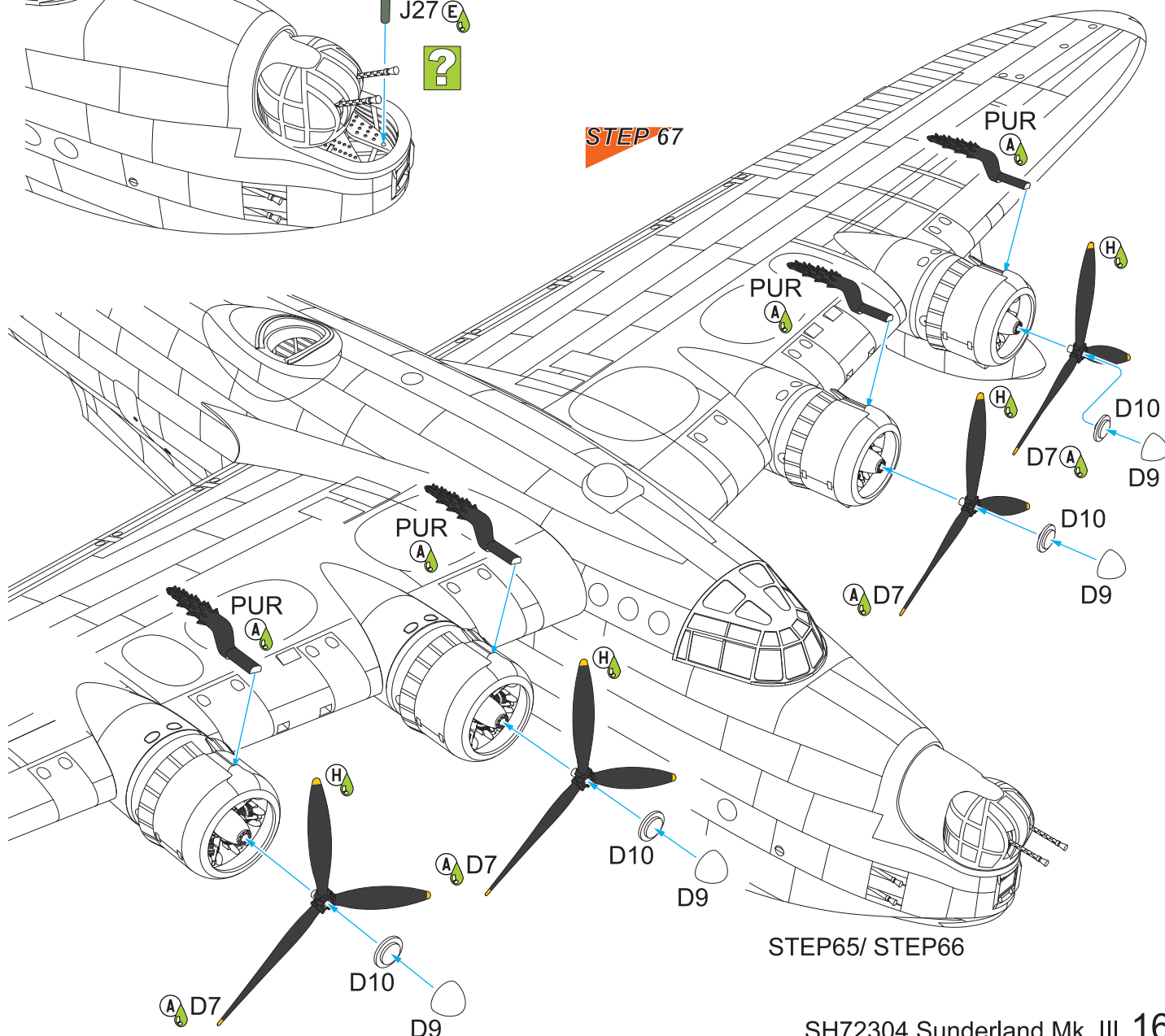
STEP 64

STEP 66



STEP 65

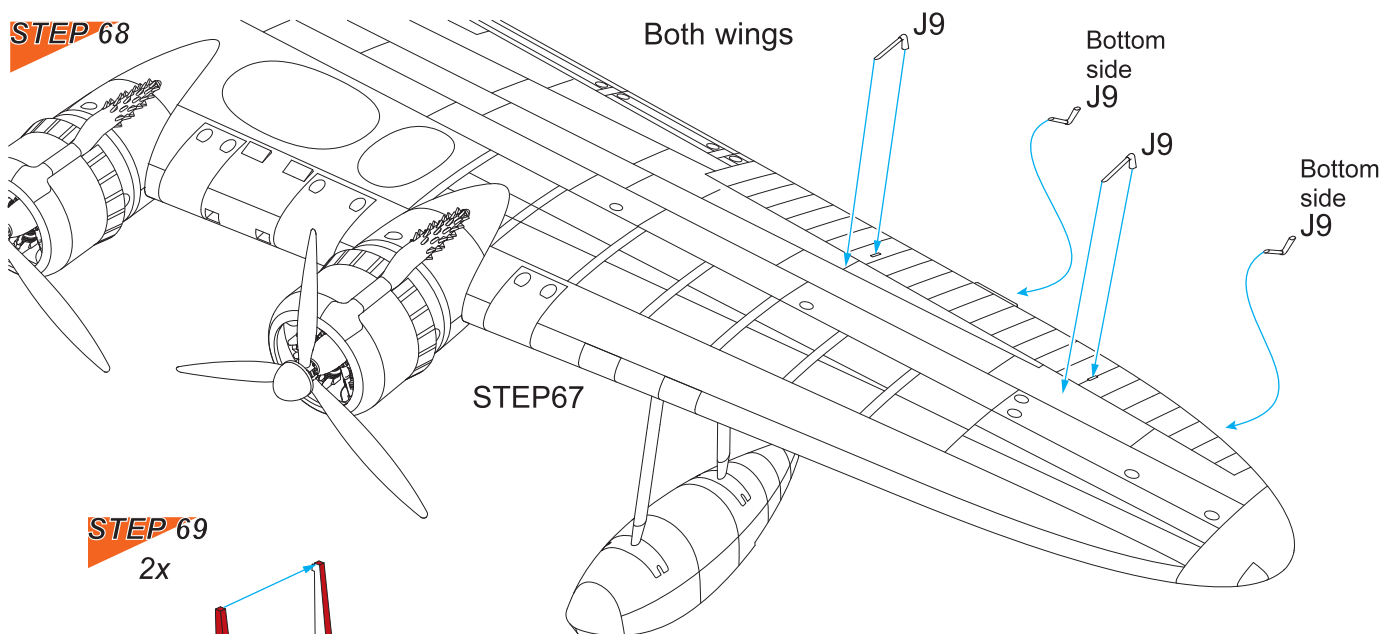
STEP 67



STEP 65/ STEP 66

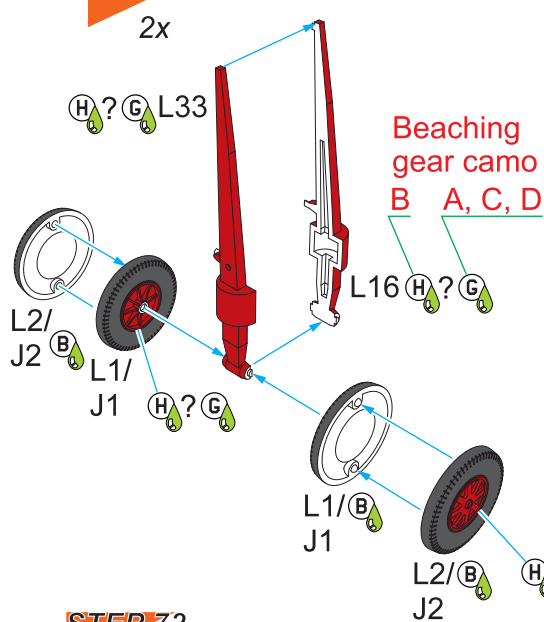
STEP 68

Both wings

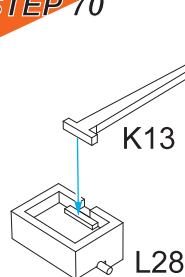


STEP 69

2x

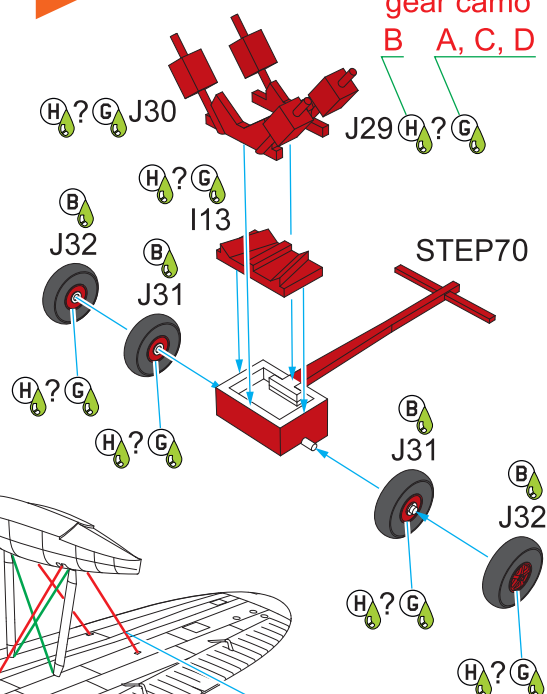


STEP 70

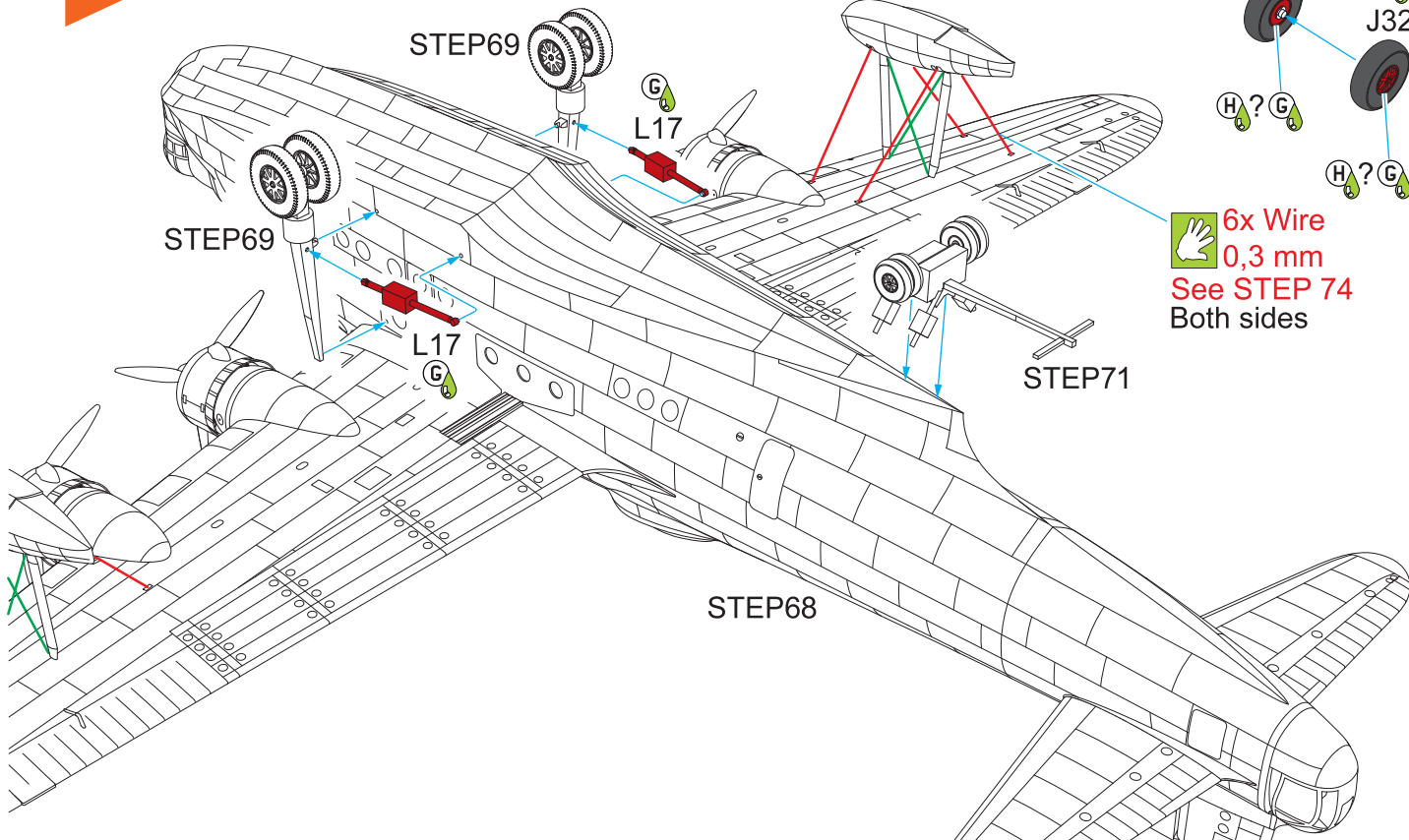


STEP 71

Beaching gear camo B A, C, D

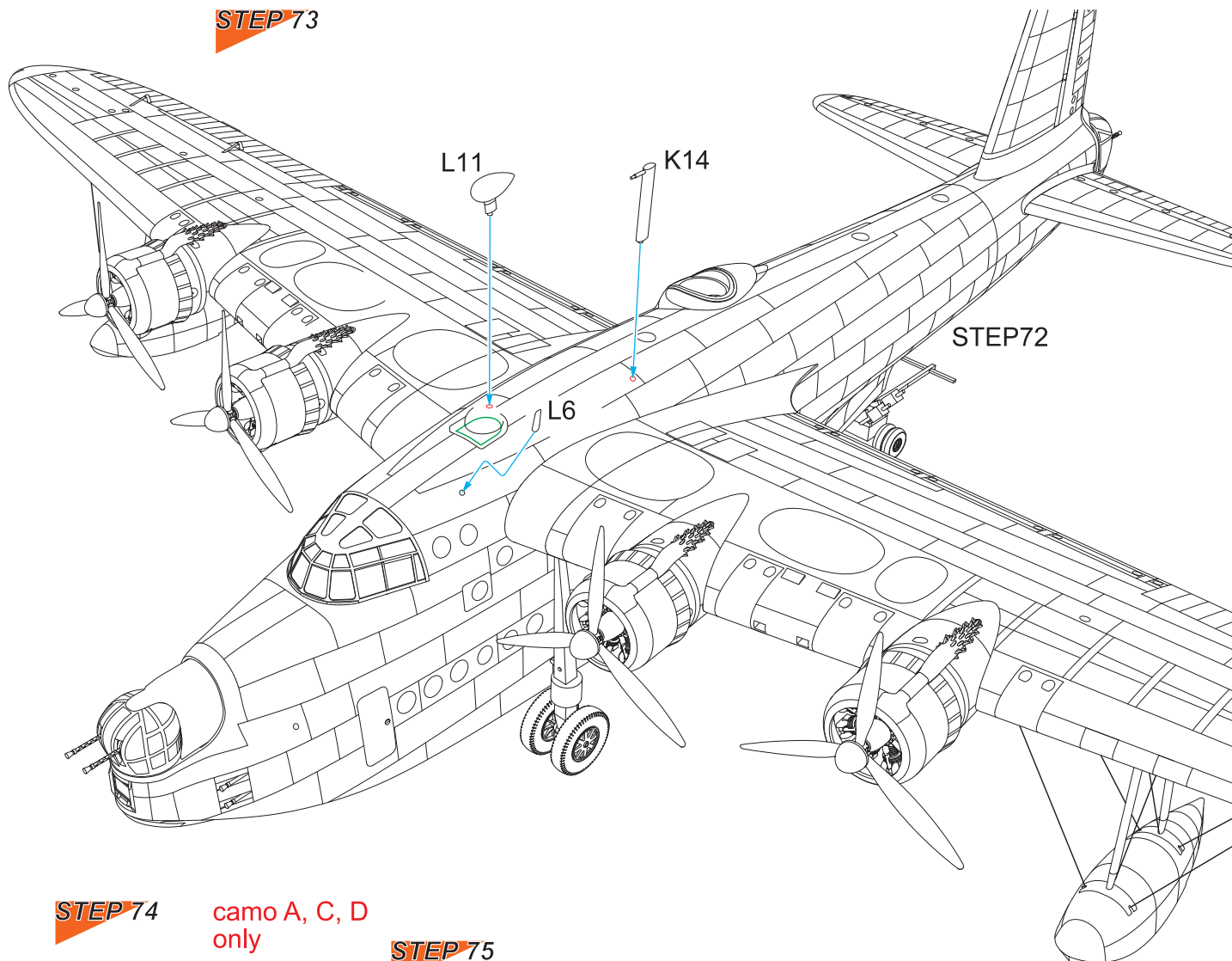


STEP 72



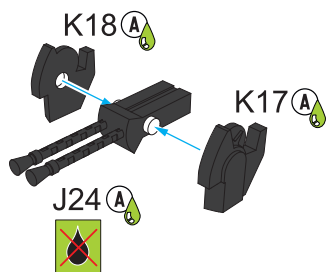
6x Wire
0,3 mm
See STEP 74
Both sides

STEP 73

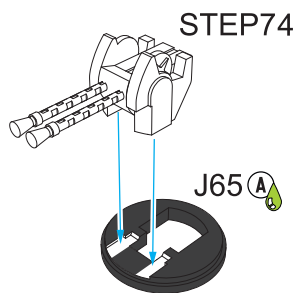


STEP 74

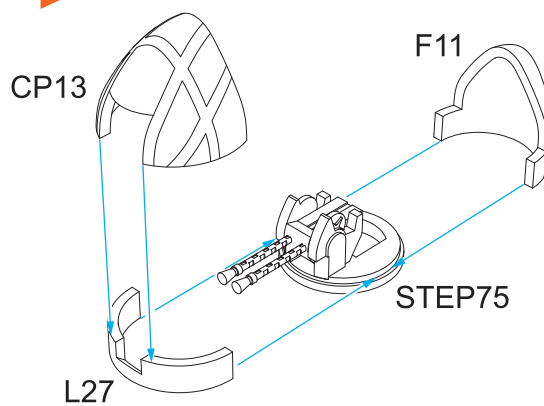
camo A, C, D only



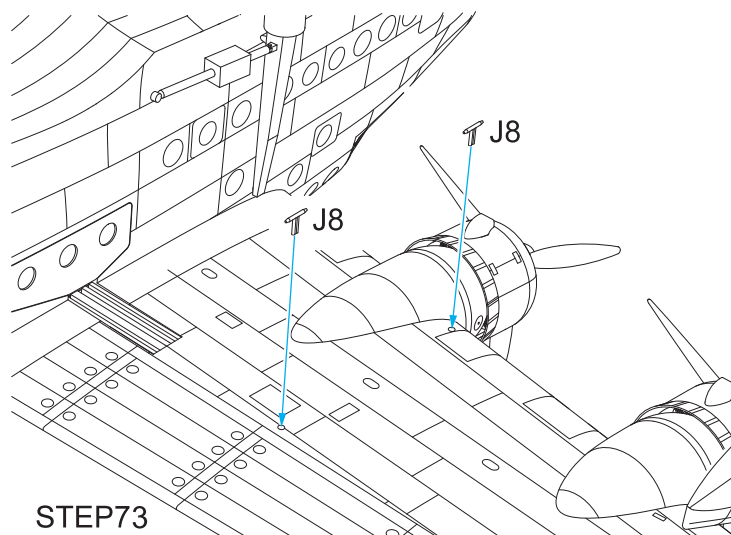
STEP 75



STEP 76

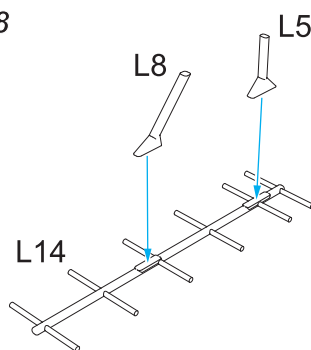


STEP 77



STEP 78

2x

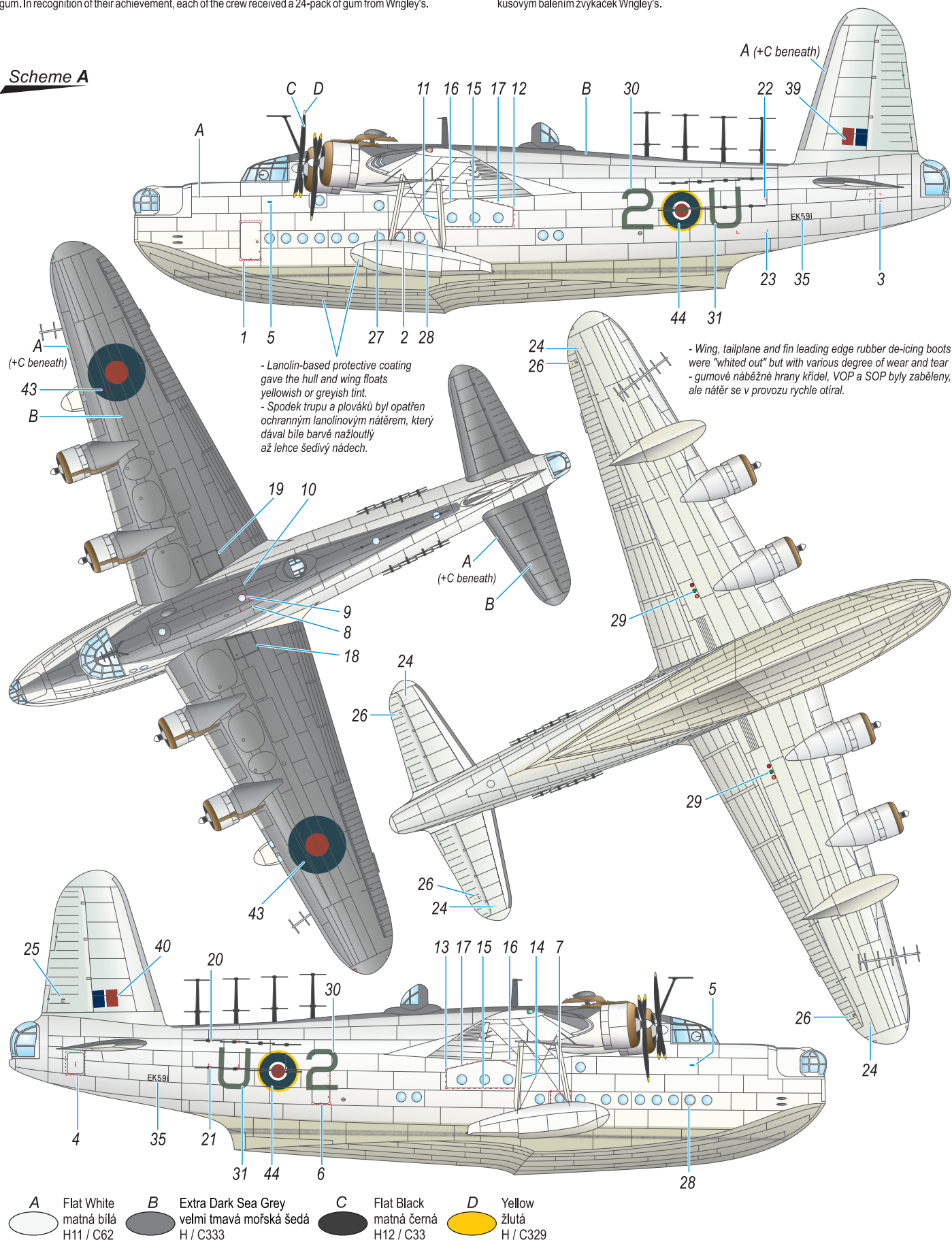


STEP73

Short Sunderland Mk.III, Blackburn built, EK591/2-U, No.422 (RCAF) Sqn. RAF, based at Castle Archdale, Northern Ireland, early to mid 1944. On 10 March, the crew of W/O Morton was sent off to patrol the area where enemy u-boats had been sighted. As the crew had only recently arrived from OTU, Morton was being screened by F/L Butler who was at the control of EK591 when U-625 submarine was spotted. The attack was successful, the submarine sunk and the crew abandoned ship, getting into one large and several small dinghies – never to be seen again, swallowed by the merciless North Atlantic. Even though the Sunderland had been hit below its waterline by a shell, the main hole was easily patched and numerous smaller holes were dealt with by the means of the crew's rations of chewing gum. In recognition of their achievement, each of the crew received a 24-pack of gum from Wrigley's.

Short Sunderland Mk.III, vyrobený firmou Blackburn, EK591/2-U, No.422 (RCAF) Sqn. RAF, základna Castle Archdale, Severní Irsko, první polovina roku 1944. Osádka W/O Mortona, čerstvě dorazivší z 422.OTU, byla vyslána 10. března 1944 na bojový let pod kontrolním vedením F/L S.W. Butlera. Ten pilotoval EK591 ve chvíli, kdy byla spatřena ponorka U-625. Útok na ponorku byl úspěšný. Ponorka byla potopena. Osádka ponorky nasedla do záchranných člunů. Zatím co osádku ponorky pohltil severní Atlantik, EK591 se šťastně vrátil zpět do Castle Archdale i přes poškození flakem ve člunové části trupu. Velké otvory se podařilo ucpat snadno a malé otvory po střepinách nakonec osádka zalepila před přistáním žvýkačkami. Každá člen osádky byl nakonec odměněn, mimo jiné, 24 kusovým balením žvýkaček Wrigley's.

Scheme A

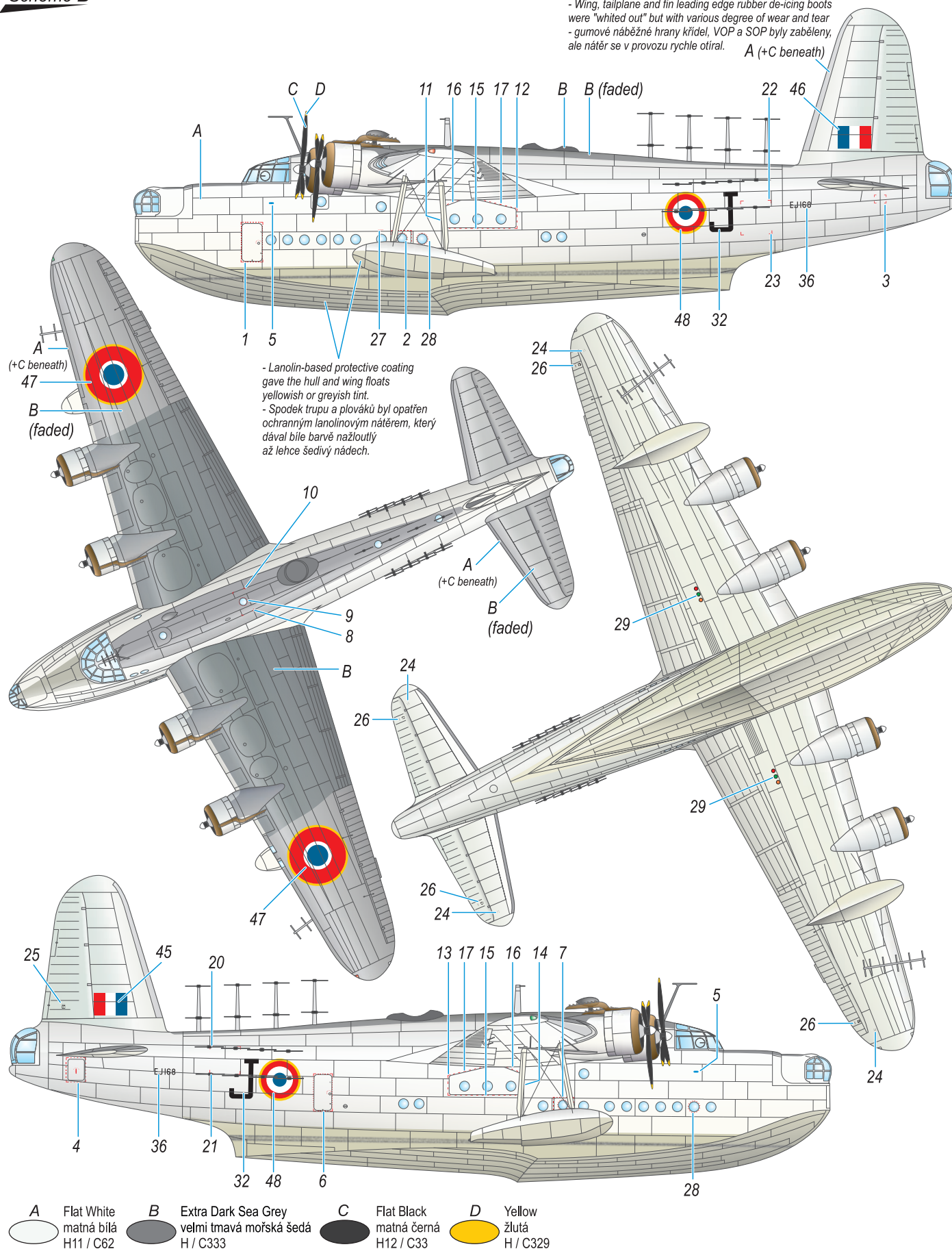


Short Sunderland Mk.III, EJ168/J, No.343 (French) Sqn. RAF, Dakar, Africa, 1944. Sunderlands of this unit usually flew with their dorsal turret removed, machine J was no exception. However, the turret fairing panels were retained.

Short Sunderland Mk.III, EJ168/J, No.343 (French) Sqn. RAF, základna Dakar, Afrika, 1944. Letoun létal, jako jiné stroje této jednotky, bez horní střelecké věže. Aerodynamické zaplechování věže přitom nebylo odstraněno.

Scheme B

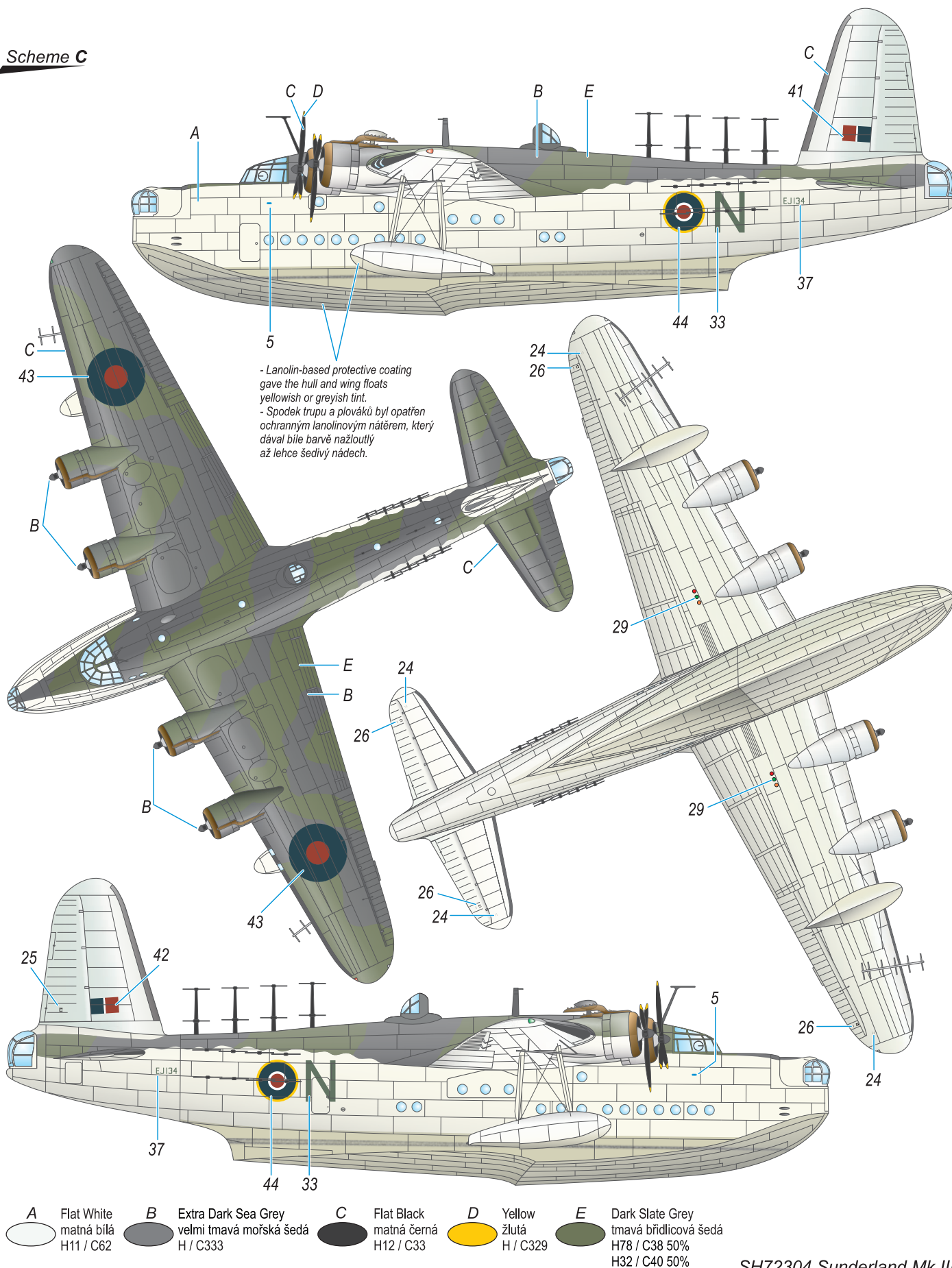
- Wing, tailplane and fin leading edge rubber de-icing boots were "whited out" but with various degree of wear and tear
- gumové náběžné hrany křídel, VOP a SOP byly zaběleny, ale nátěr se v provozu rychle otíral. A (+C beneath)



Short Sunderland Mk.III, EJ134/N, No.461 Sqn. (RAAF) RAF, Pembroke Dock, Wales, 1943. On 13 February 1943, N for 'Nuts' was attacked by two Ju 88s and two Fw 190s and was lucky to get away only being damaged. On 2 June 1943, the machine found itself under another attack from V/KG40 Junkers Ju 88s and although having shot down three of them, it did not make it home in one piece. Sgt.E.C.B. Miles had been killed during the combat and the struck Sunderland made a crash landing off Praa Sands in South Cornwall. The crew of F/L Colin B. Walker escaped from the machine and got to the shore. Abandoned EJ134 was eventually destroyed in a storm on the beach of Praa Sands.

Short Sunderland Mk.III, EJ134/N, No.461 Sqn. (RAAF) RAF, základna Pembroke Dock, Wales, 1943. N-'Nuts' vyvázl 13. února 1943 ze souboje s dvěma Junkersy Ju 88 a dvěma Focke Wulfy Fw 190 s poškozením. 2. června 1943 byl napaden osmi Junkersy Ju 88 od V/KG 40. V souboji tři z nich sestřelil. Na palubě EJ134 padl Sgt. E.C.B. Miles. Poškozený EJ134 nouzově přistál u pobřeží Praa Sands v Jižním Cornwallu. Osádka F/L Colina B. Walkera stroj opustila a uchýlila se na pevninu. Opuštěný EJ134 byl na pláži Praa Sands zničen bouří.

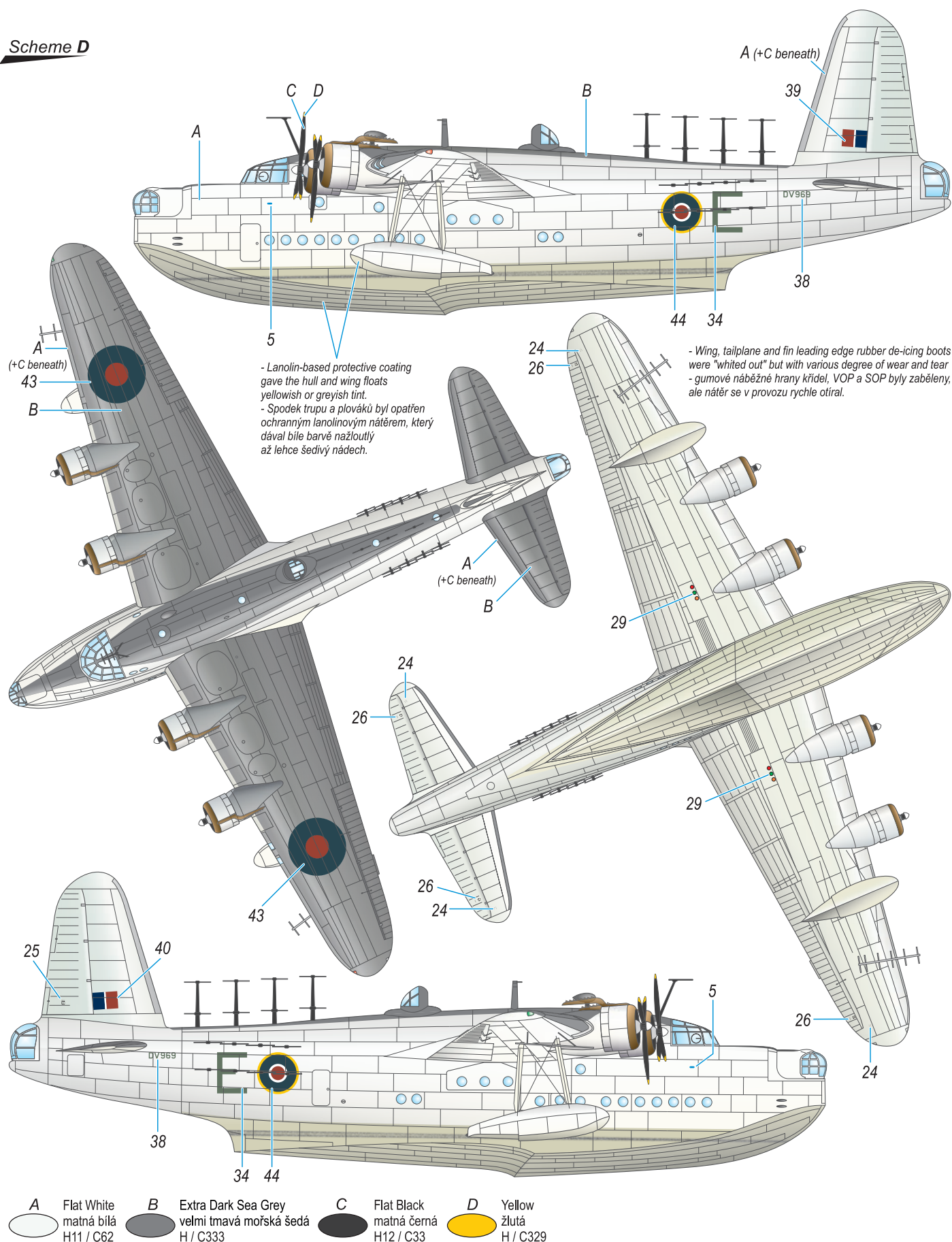
Scheme C



Short Sunderland Mk.III, DV969/E, No.10 Sqn. RAAF, Pembroke, Wales, spring 1943. On 31 May 1943, the crew of F/O Mainprice managed to sink German U-boat U-563. A month later, on 27 July 1943, the machine was engaged in a fight against four Ju 88s and survived despite being hit at least 20 times by enemy fire. Eventually, her luck had ran out on 21 September 1943 when DV969 was outnumbered by Ju 88s of V/KG40 and was shot down. The entire crew of F/O A. G. Jennison, F/O A. N. Buckland, P/O A. W. Morphet Gunson, F/O A. L. Coomes, A/Sgt J. T. Law, A/Sgt S. Ch. E. Leech, F/Sgt N. D. Kerr Swinton, F/Sgt L. E. Waddington, Sgt J. D. T. Daley, F/Sgt D. Harris, F/Sgt C. S. Cameron perished in the Bay of Biscay.

Short Sunderland Mk.III, DV969/E, No.10 Sqn. RAAF, základna Pembroke, Wales, jaro 1943. 31. května 1943 tento stroj s osádkou vedenou F/O Mainpricem potopil ponorku U-563. 27. července 1943 se ubránil útoku čtyř Junkersů Ju 88, byl přitom poškozen 20 zásahy. Šťěstí tento Sunderland opustilo 21. září 1943, kdy byl sestřelen přesilou Junkersů Ju 88 od V/KG 40. Celá osádka F/O A. G. Jennison, F/O A. N. Buckland, P/O A. W. Morphet Gunson, F/O A. L. Coomes, A/Sgt J. T. Law, A/Sgt S. Ch. E. Leech, F/Sgt N. D. Kerr Swinton, F/Sgt L. E. Waddington, Sgt J. D. T. Daley, F/Sgt D. Harris, F/Sgt C. S. Cameron zahynula v Biskajském zálivu.

Scheme D



ATTRACTIVE 1/72 SCALE MODELS

SH72217



Blackburn Skua Mk.II

SH72233



'Last of Best'
Supermarine Spitfire Mk.24

SH72268



V-156B Chesapeake Mk.I

SH72299



'Little Norway service'
N-3PB

SH72306



'Home Fleet'
Fairey Barracuda Mk.II

SH72377



Kittyhawk Mk.IA

SH72383



'RAF, RAAF and Armée de l'Air'
DH.100 Vampire Mk.I

SH72400



Vickers Vildebeest Mk.III

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