**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 projevily v konstrukci stroje Short S.25. Ten byl navržen podle specifikací R.2/33, požadujících létající člen 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. Sunderlandy Mk.I byly vybaveny motory Pegasus Mk.XXII, střeleckými věžemi v přídi a zádi a otevíratelnými střelištěmi na hřbetě trupu. Bylo jich vyrobeno 90 ks, část z nich u firmy Blackburn. Verze Sunderland Mk.II dostala hřebetní střeleckou věž a silnější motory Pegasus Mk.XVIII. Společná výroba u Shortu a Blackburnu dal vzniknout 43 kusů této verze. Na některých kusech této verze byly použity první verze radarů se stromečkovitými anténami ASV Mk.II. Zkušenosti z bojiště vedly k úpravám Sunderlandu. Výroba přešla na verzi Mk.III/IIIA. Trup této verze dostal nové, aerodynamicky výhodnější stupnění kýlu, ASV radar Mk.III v kapkovitém výstupku pod křídlem. Pozdější vyrobené kusy dostaly do příde 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 nevyráběla sériově, poslední verzí 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 Sunderlandy Mk.II dostala jako první No.230 sqn. RAF v roce 1938. Na konci války se Sunderlandy létaly dvacet squadron pod velením RAF a další squadrony pod velením spojeneckým. Bojovaly od prvního dne války až do jejího konca. 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 dikobraz. Konec války neznamenal konec jejich služby. Sunderlandy RAF se mohou pochlubit mimo jiné účastí v Korejském konfliktu, Berlínském mostu nebo bojů s komunistickými bojovníky v Malajsii. 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 Sunderlandy byly přitom vyřazeny až v roce 1967!

TTD verze Mk.II

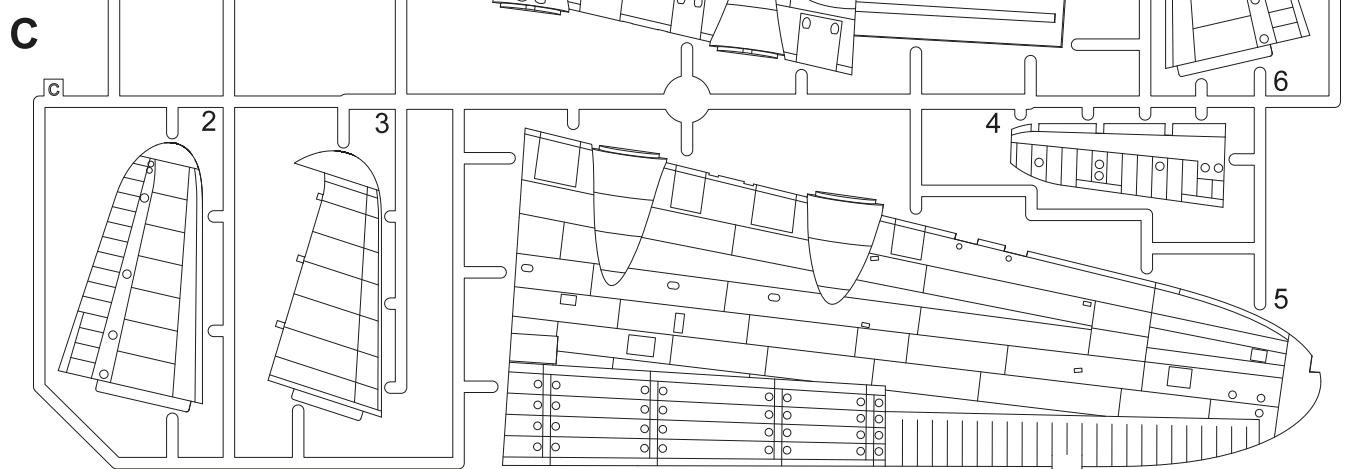
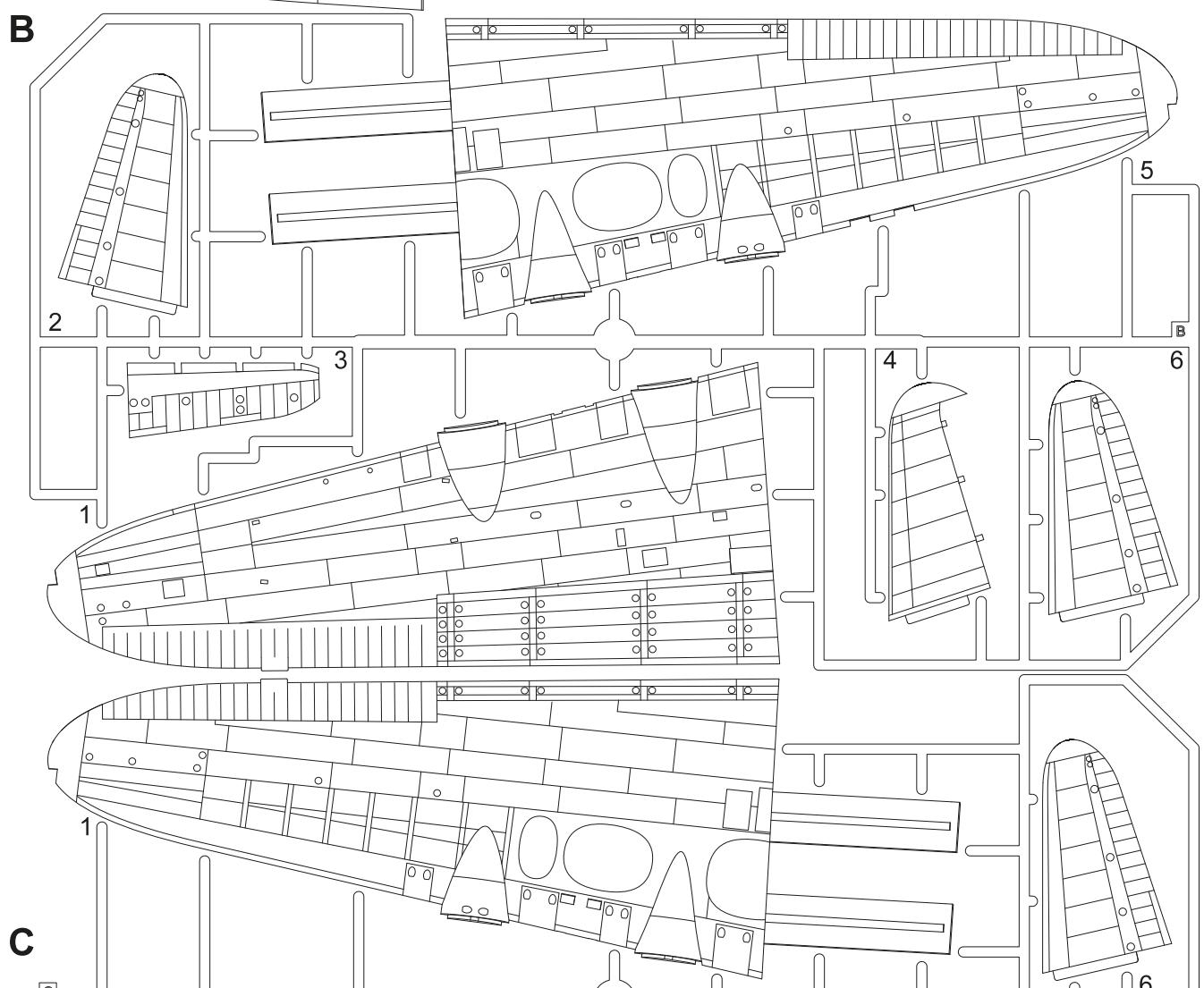
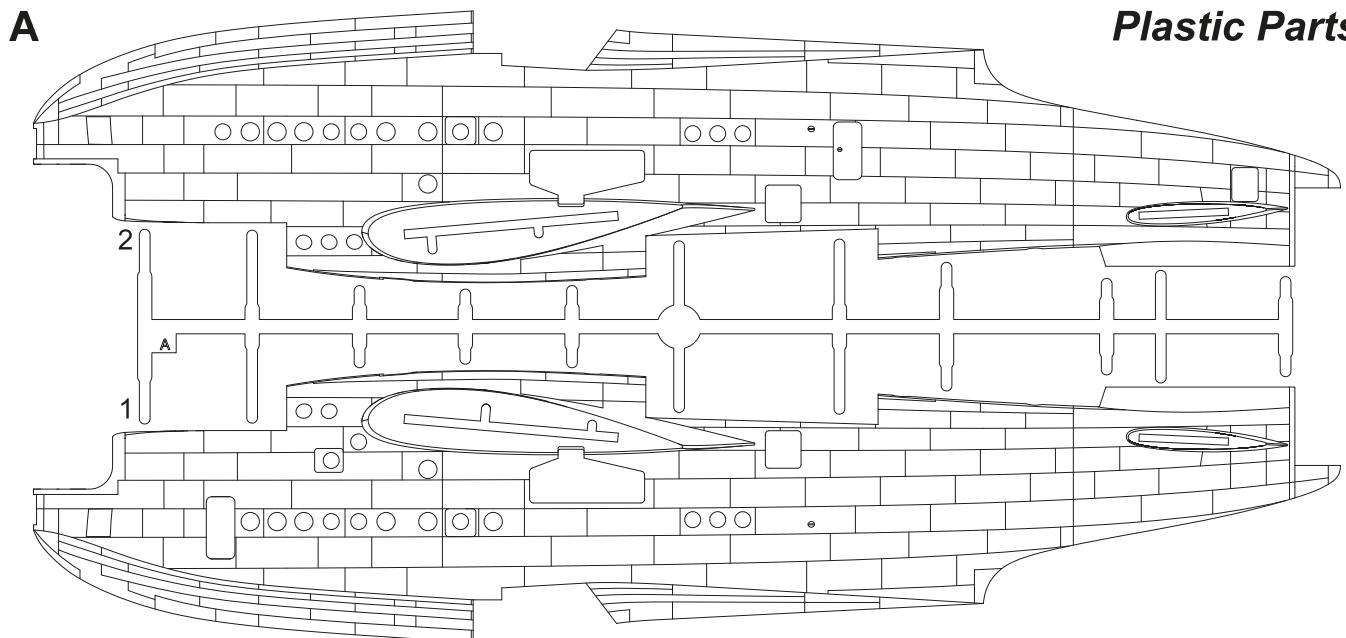
Rozpětí: 34.39 m, Délka: 26.11 m, Výška: 10.01 m, Max. rychlosť: 329 km/h v 1900 m, Operační dostup: 5243 m, Dolet: 3027 km v 1880 m, Vytrvalost: 10/21 hodin při rychlosti 260/220 km/h, Výzbroj: 2000 kg bomb či hlubiných bomb, 8x kulomet 7.7 mm

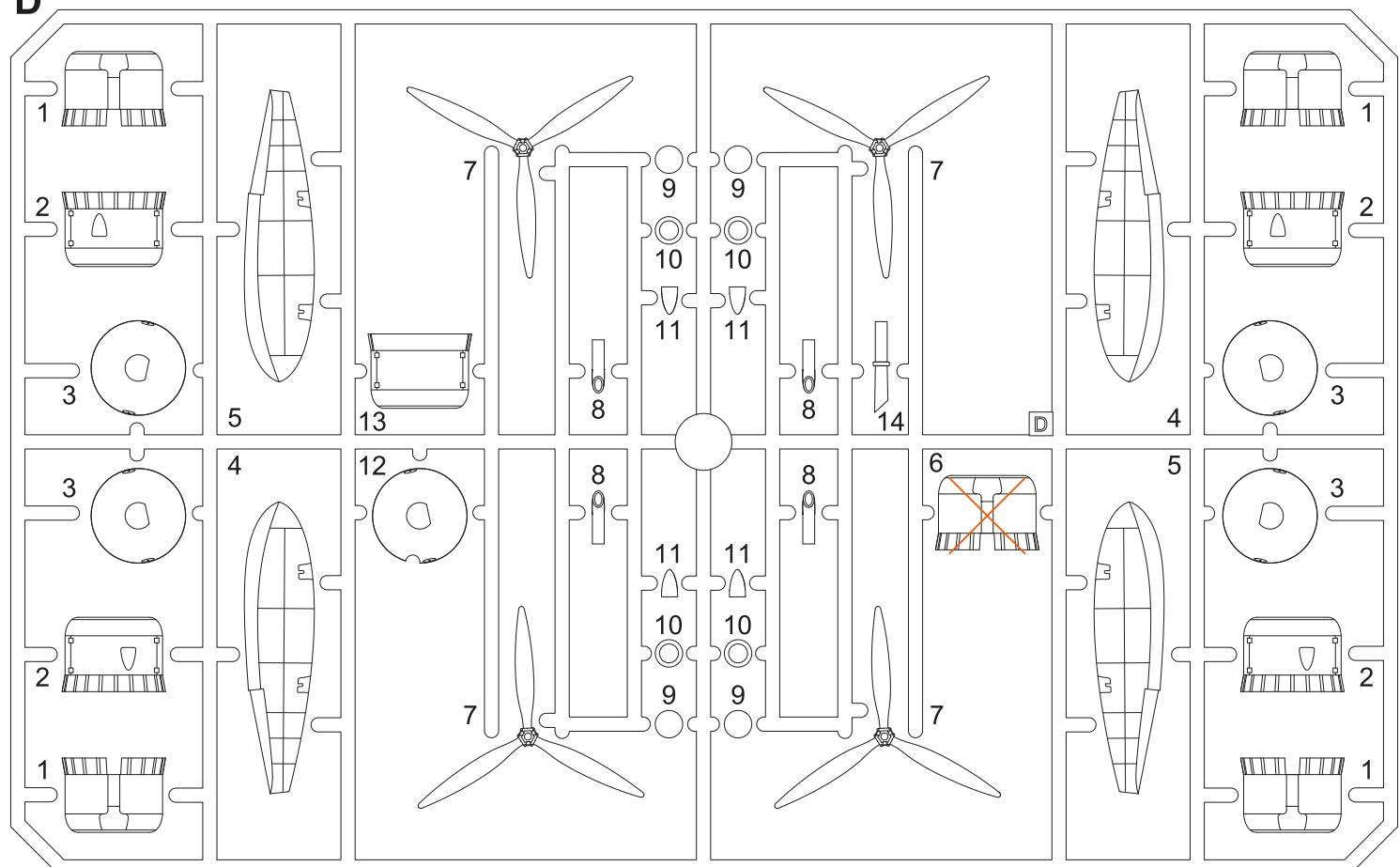
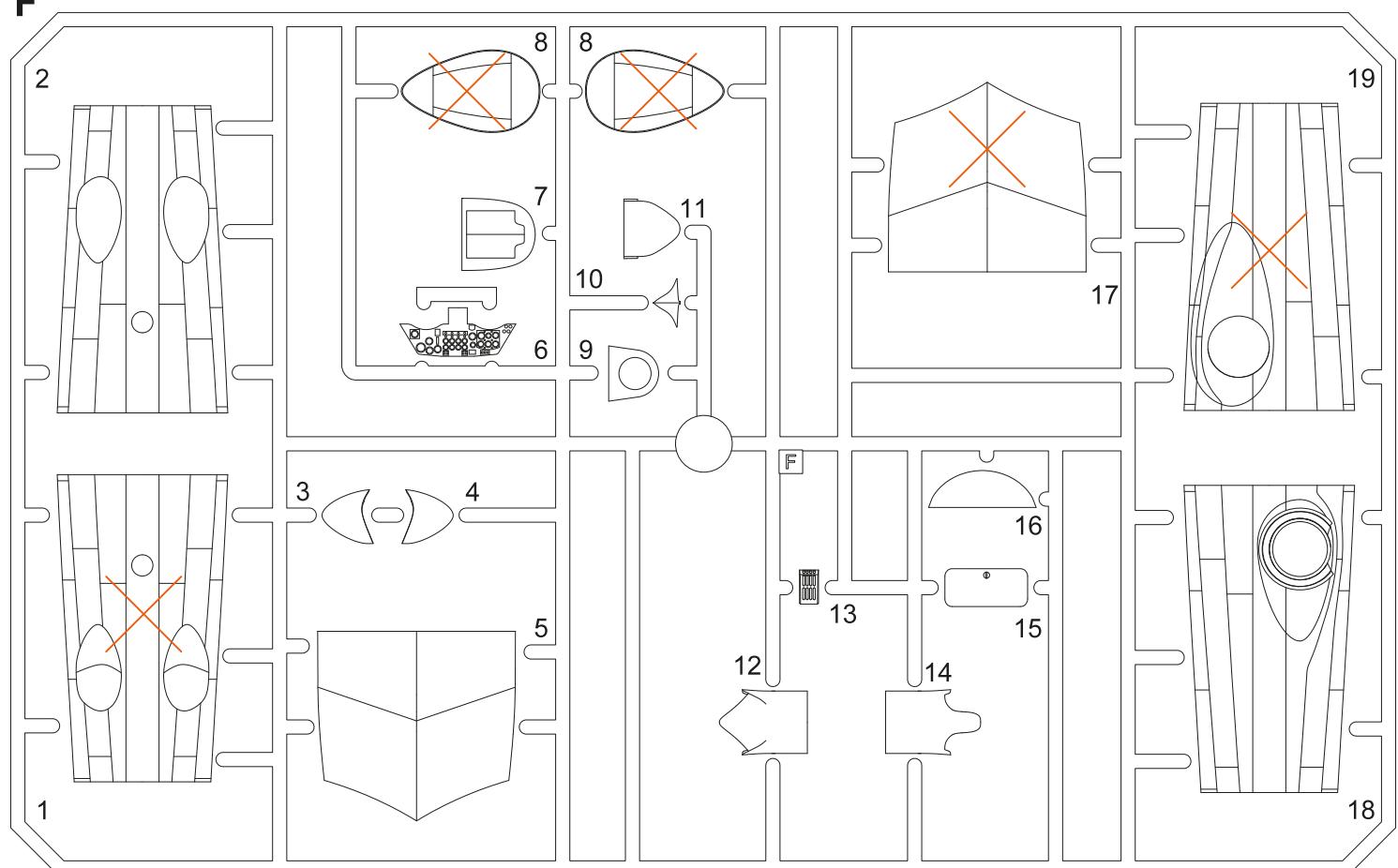
History**EN**

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.II Specification / Performance

Wingspan: 34.39 m, Length: 26.11 m, Height: 10.01 m, Max. speed: 329 kph (1900 m), Service ceiling: 5243 m, Range at cruising speed: 3027 km (1880 m), Endurance: 10/21 hours at 260/220 km/h, Offensive ordnance: 2000 kg, Defensive armament: 8x 7.7 mm



D**F****SYMBOLS**

MOŽNOST VOLBY
OPTIONAL
NACH BELIEBEN
OPTION



POUŽÍT KYANOAKRYLÁTOVÉ LEPIDLO
INSTANT CYANOACRYLATE GLUE
ZYANOAKRYLATKLEBER
COLLE CYANOACRYLAT



OHNOT
BEND
BIEGEN
BIEGEN
COURBER



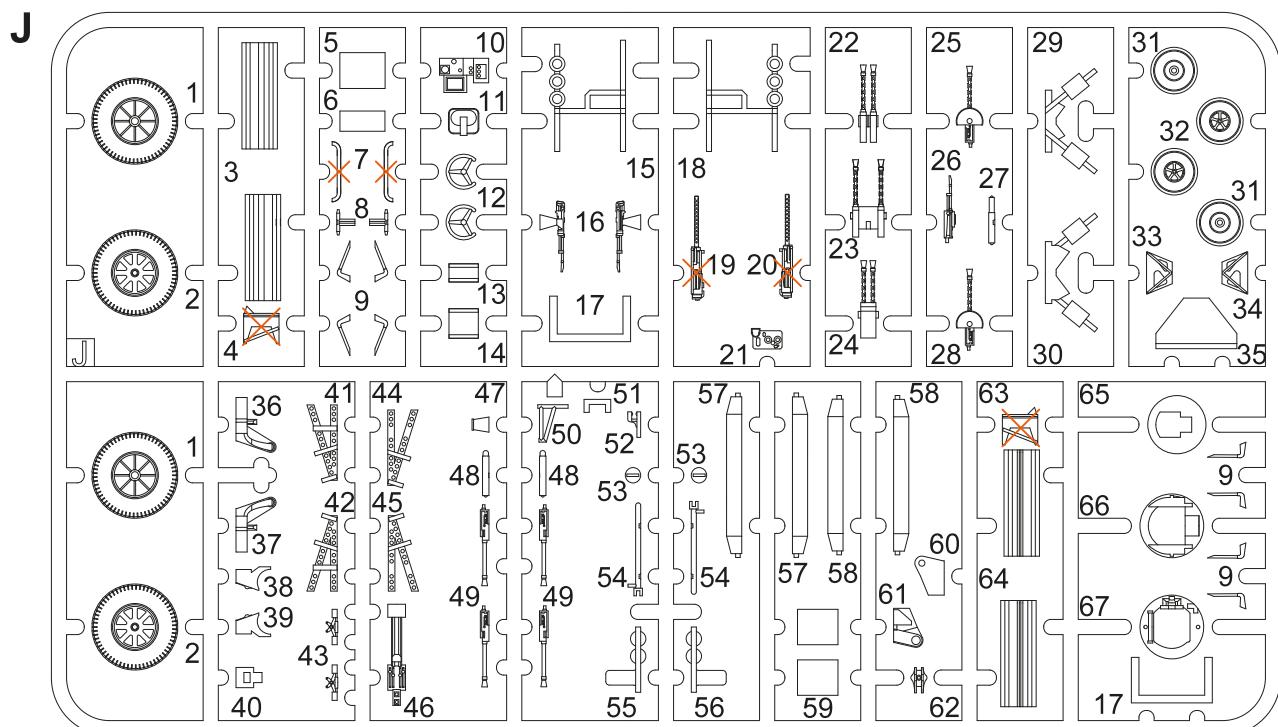
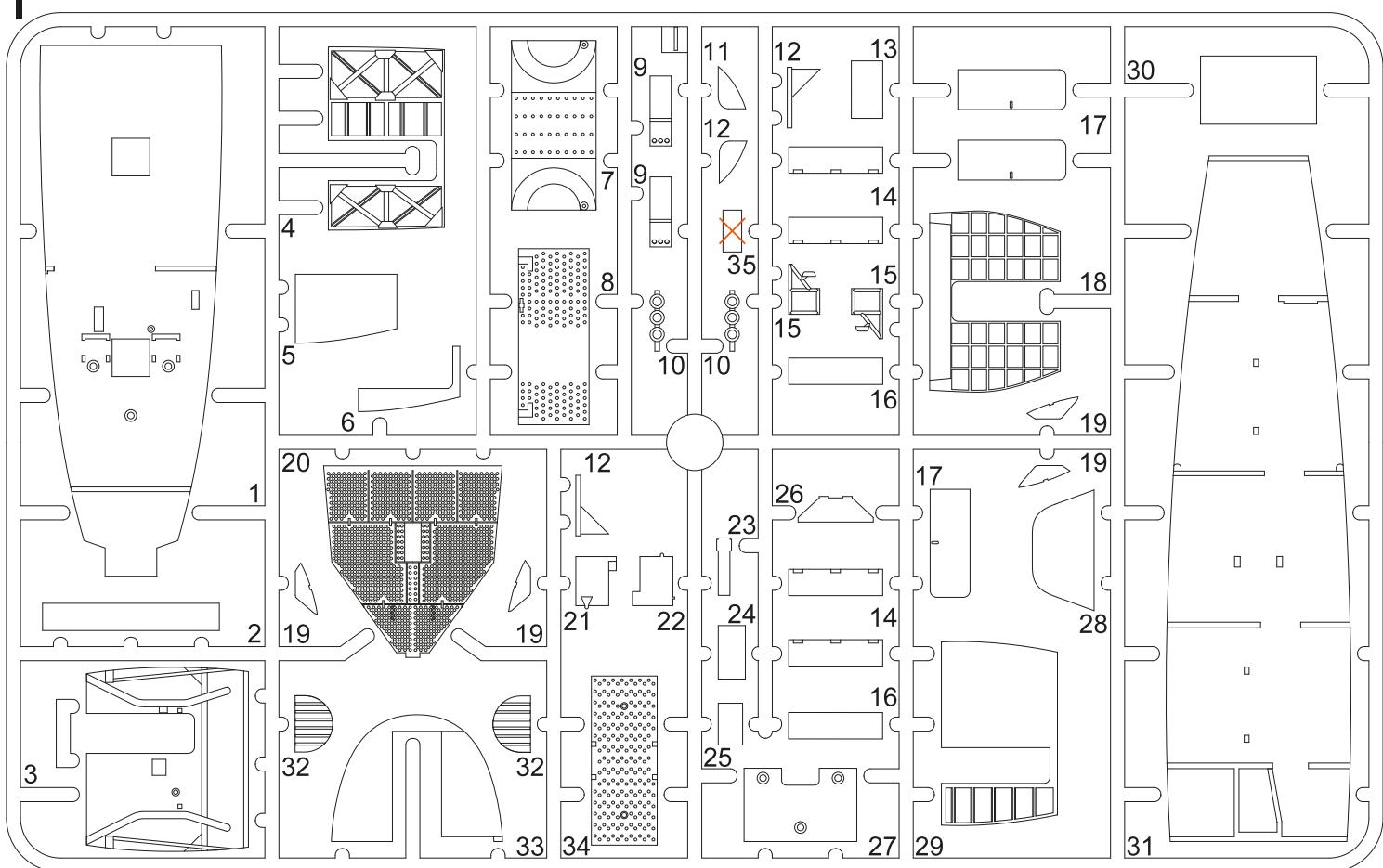
ZHOTOVIT NOVĚ
SCRATCH BUILD
FERTIGSTELLEN
ACHEVER



ŘEZAT/VRTAT
CUT OFF/DRILL
ENTFERnen
DETACHER



NATRÍT
COLOUR
FARBEN
PEINDRE



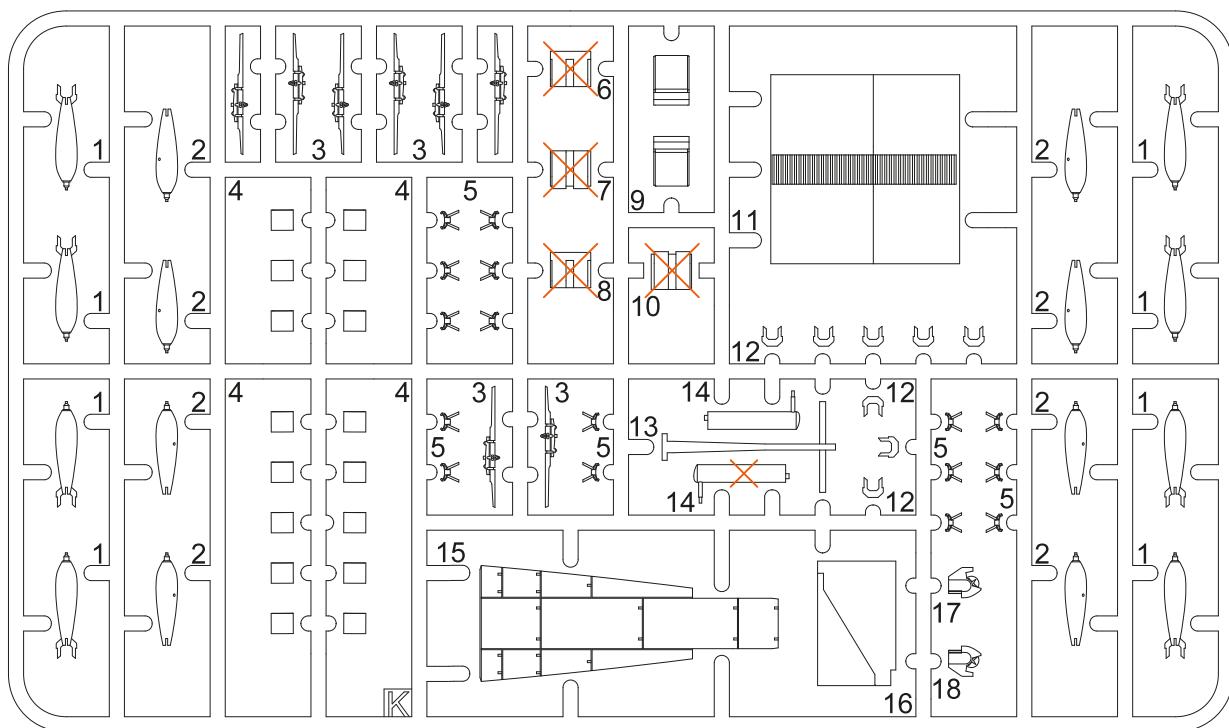
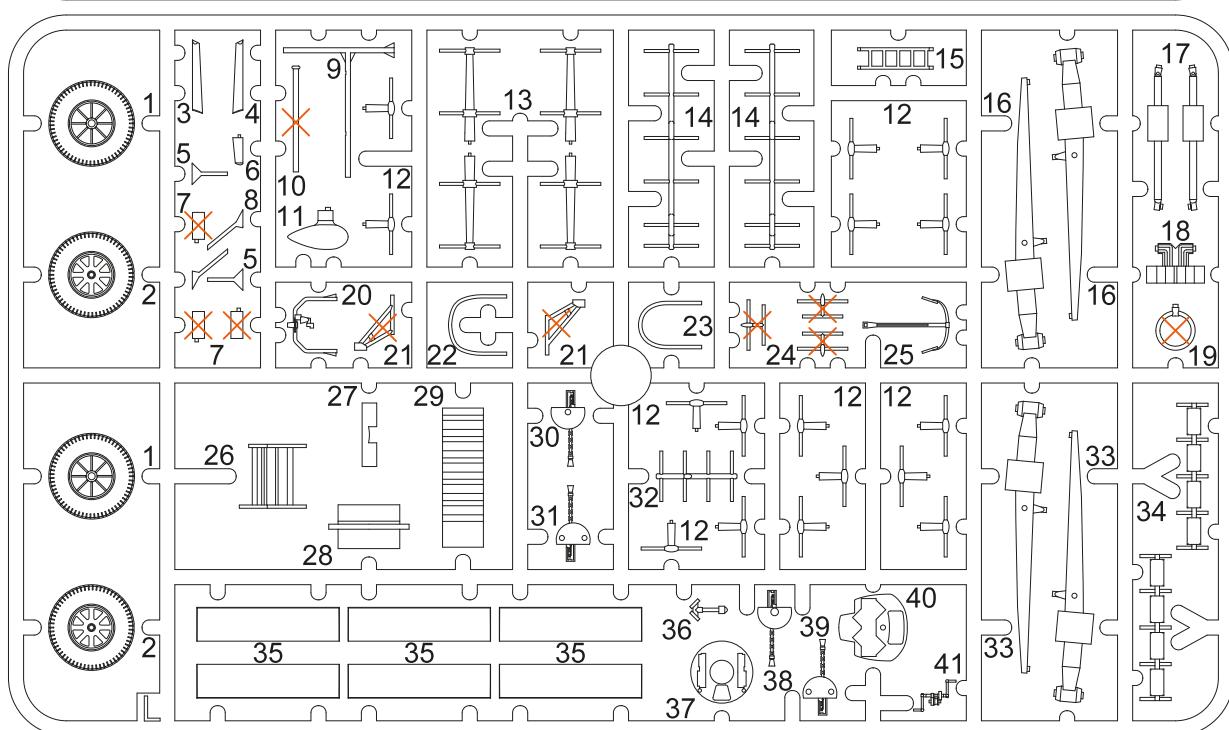
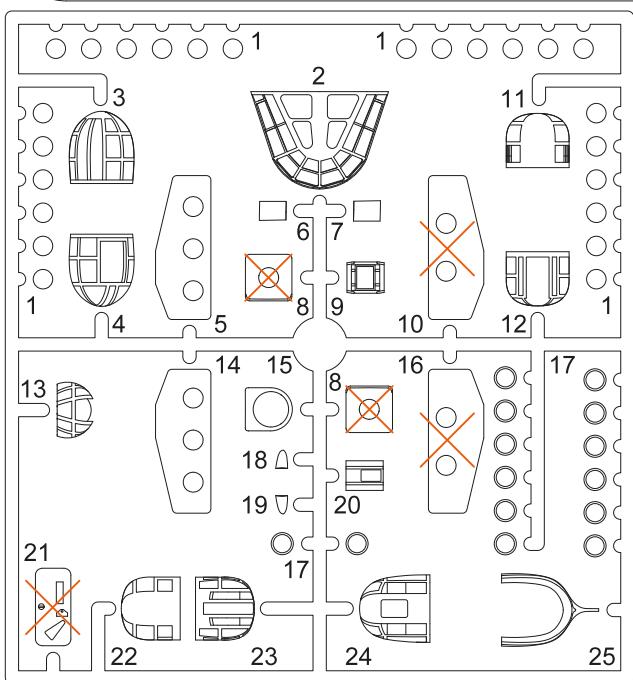
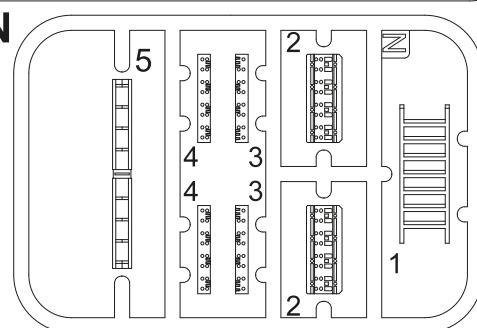
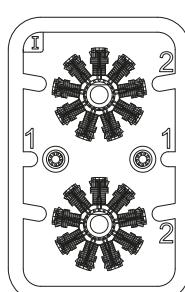
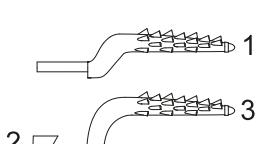
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Barvy GUNZE/ GUNZE Colour No.

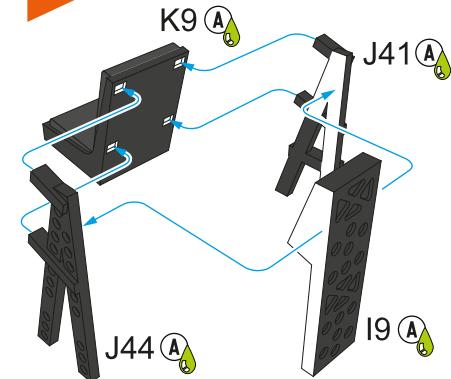
- (A) Černá/ Black
- (B) Barva pneu/ Tire Black
- (C) Tmavý kov/ Dark Iron
- (D) Hliník/ Aluminium
- (E) Inter. šedozelená/ Inter. Grey Green
- (F) Motorová šedá/ Engine Grey
- (G) Červená/ Red

- (H) H12/ C33
- (I) H77/ C137
- (J) H28/ C78
- (K) H8/ C8
- (L) C364
- (M) H339/ C339
- (N) H43/ C100
- (O) Žlutá/ Yellow
- (P) Barva plátna/ Tan
- (Q) Bílá/ White
- (R) Dřevo/ Wood
- (S) Opálený kov/ Burnt Iron
- (T) Barva kůže/ Red Brown

H4/ C4
H27/ C44
H28/ C78
H37/ C43
H76/ C61
H17/ C29

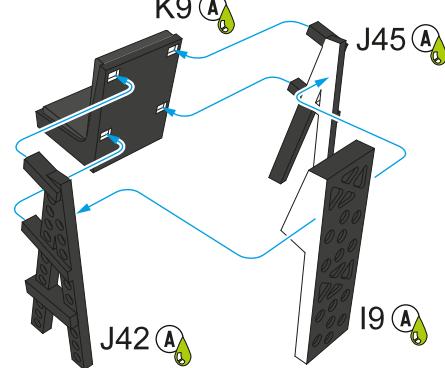
K**L****CP
(Clear Parts)****N****2x I****PUR****PRINT (P)**

STEP 1

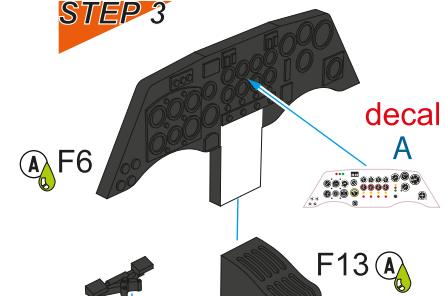


Assembly

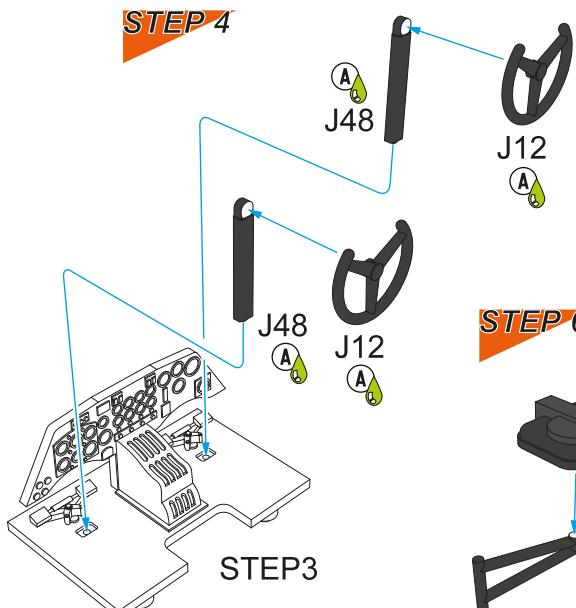
STEP 2



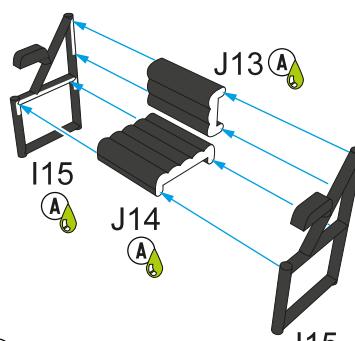
STEP 3



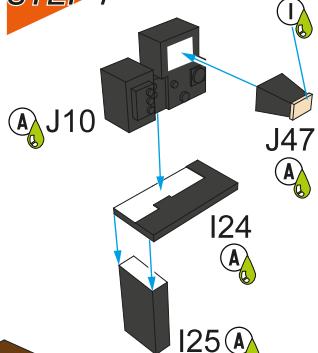
STEP 4



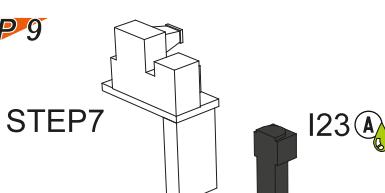
STEP 5



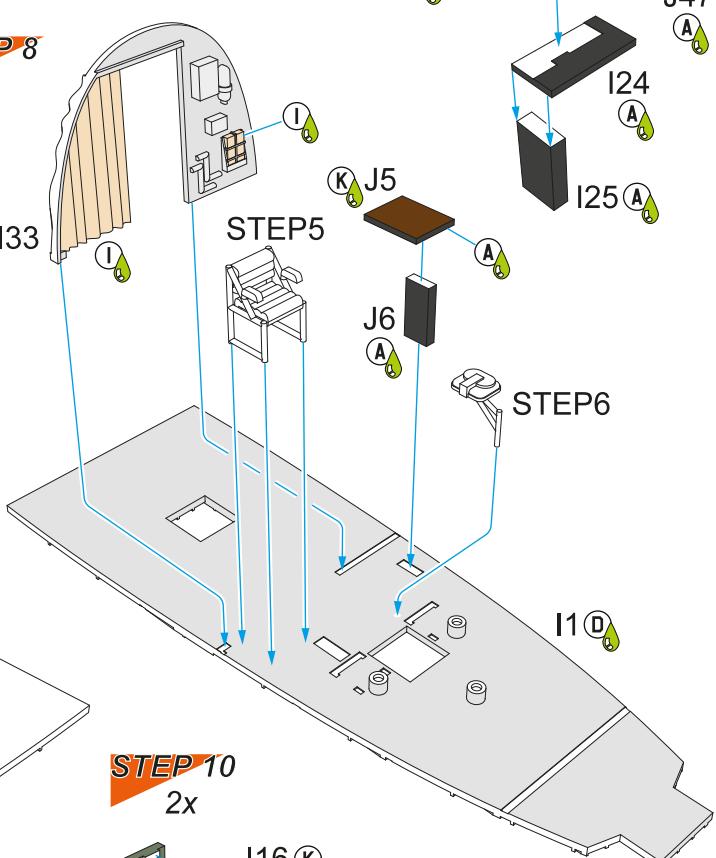
STEP 7



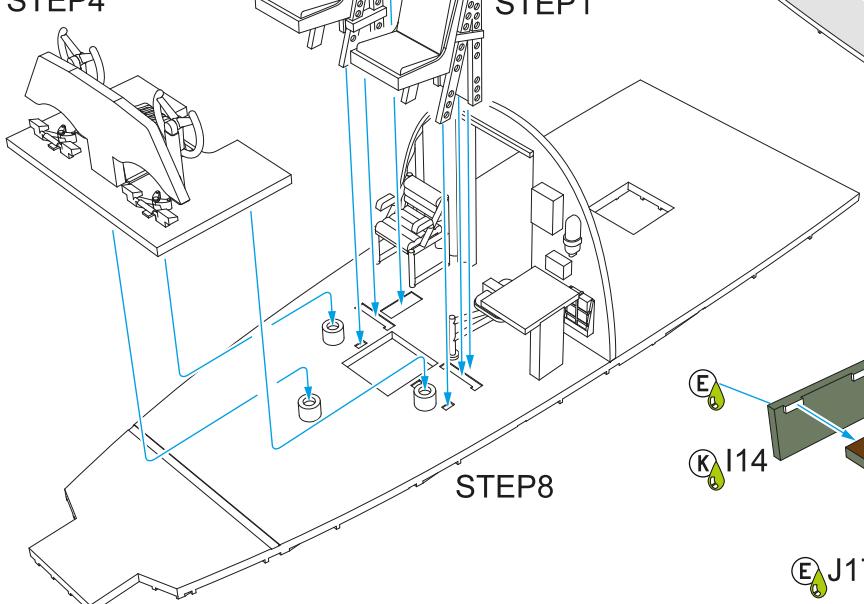
STEP 9



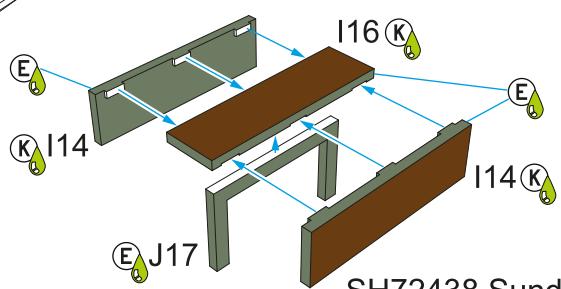
STEP 8

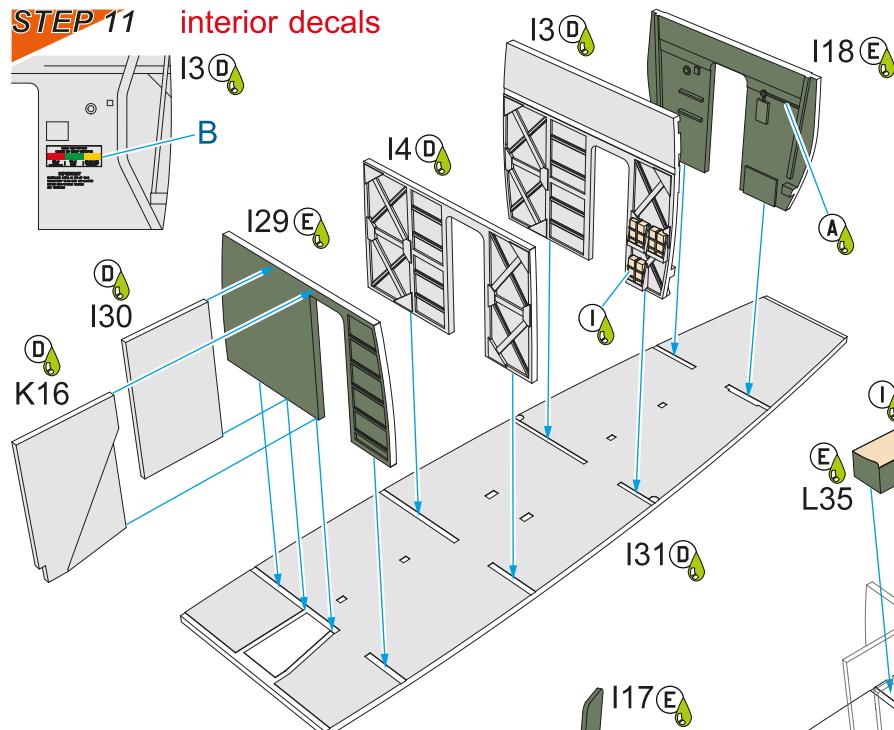
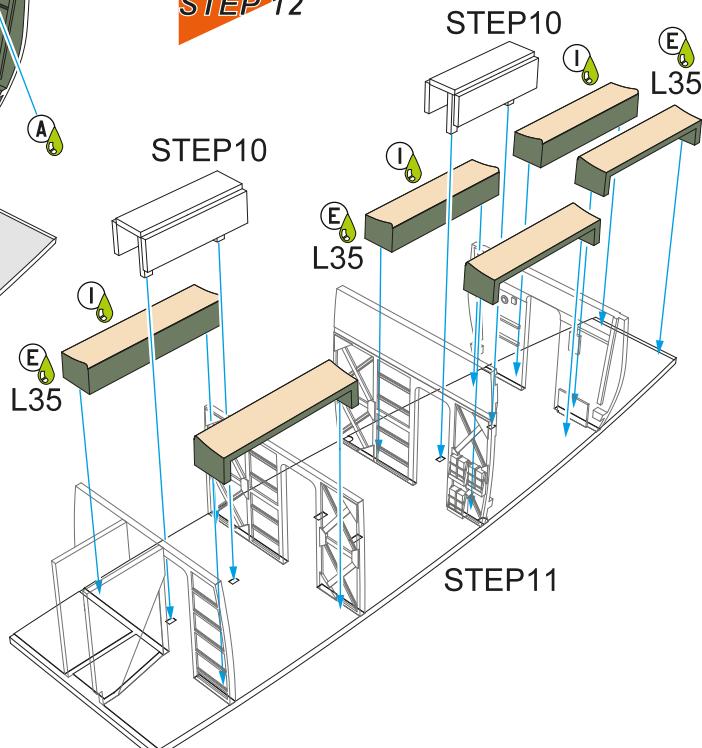
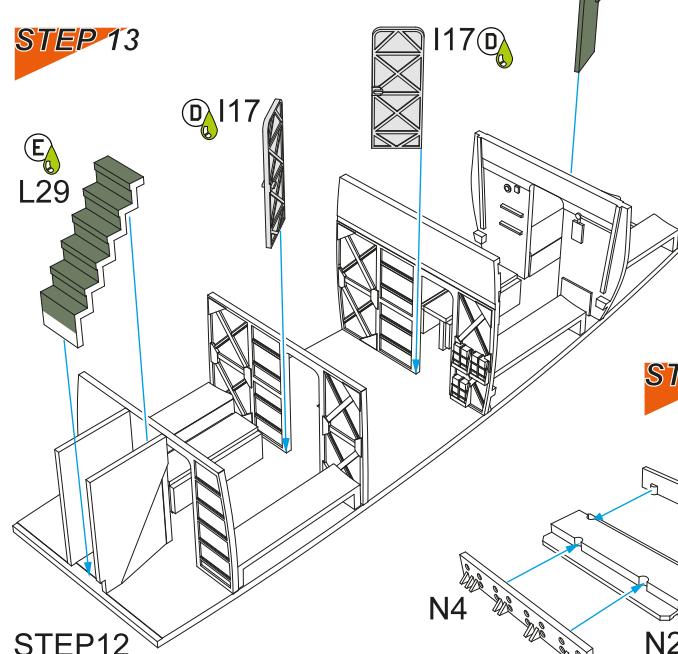
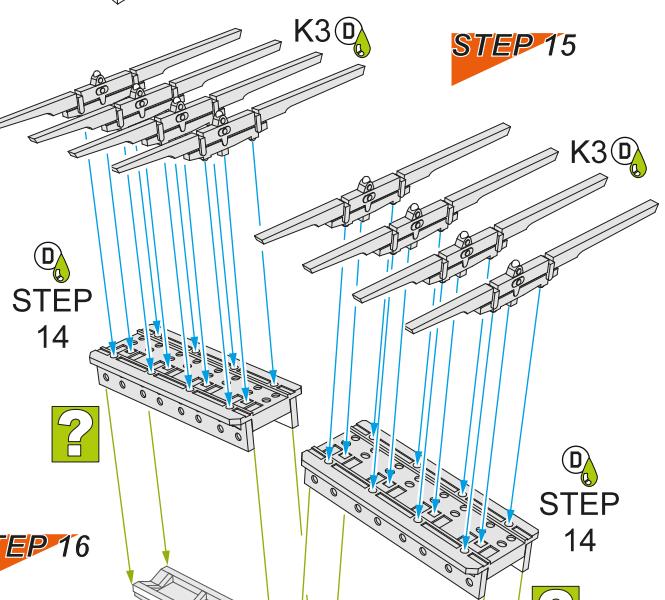
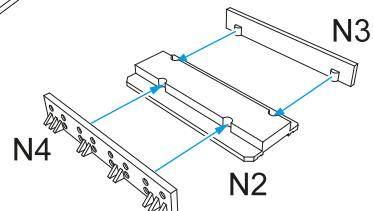
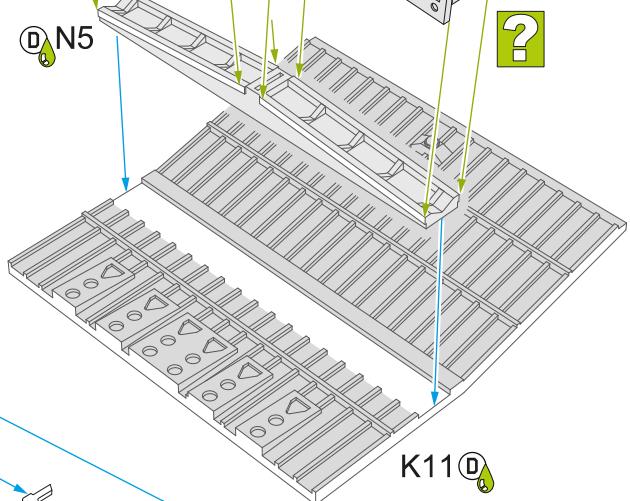
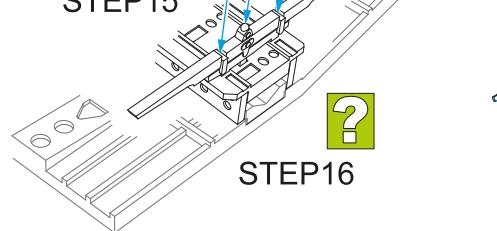
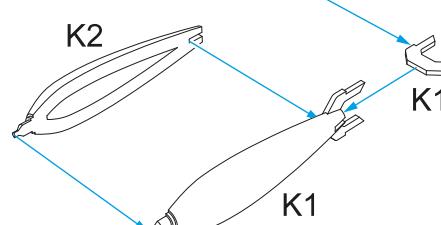


STEP 4

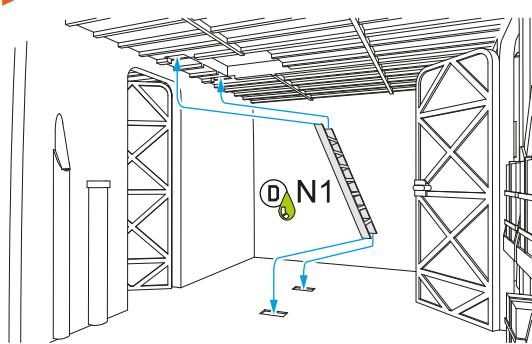


**STEP 10
2x**



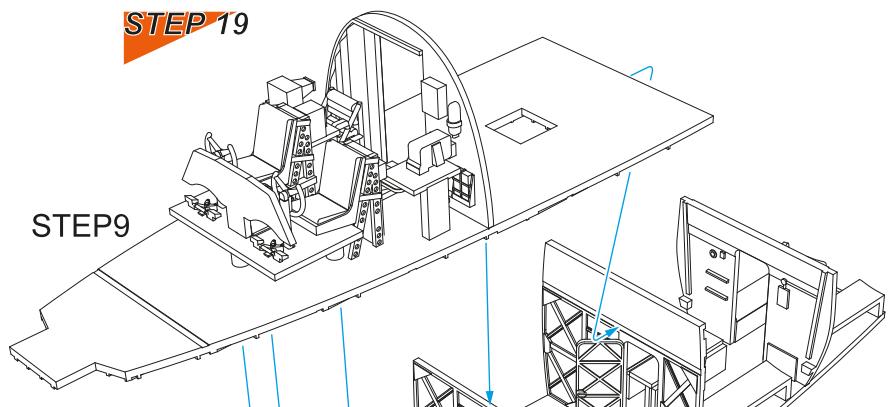
STEP 11 interior decals**STEP 12****STEP 13****STEP 14**
2x**STEP
14****STEP
16****STEP 17**8x
See
page 15**STEP 17**
8x**STEP 15****STEP 16****K1**

STEP 20



STEP19

STEP 19

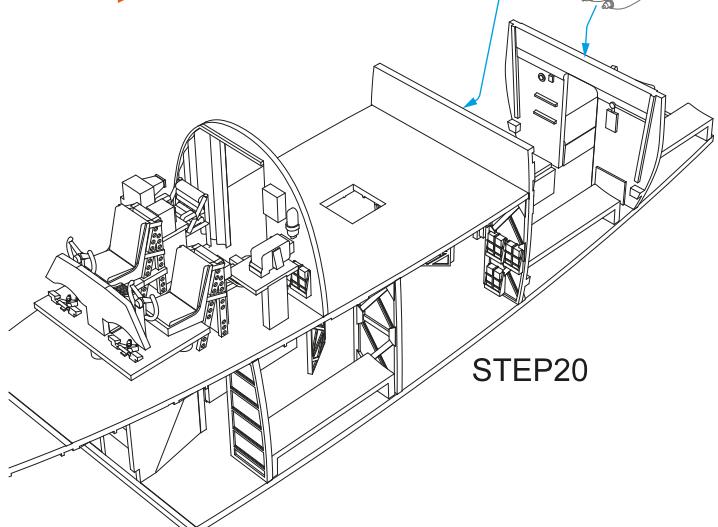


STEP 21

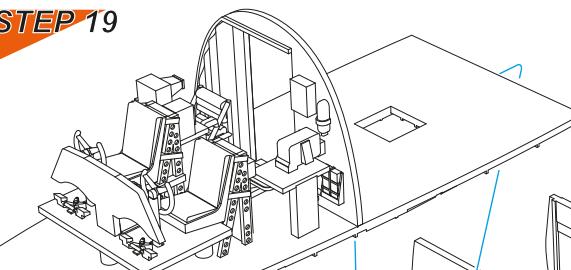
STEP16



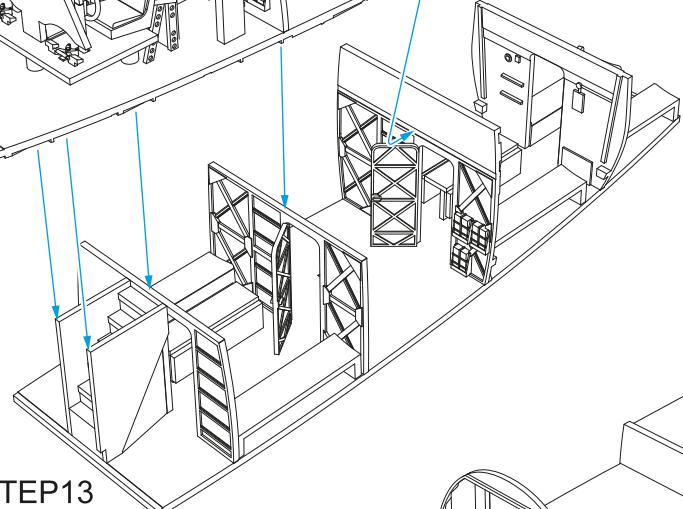
STEP18



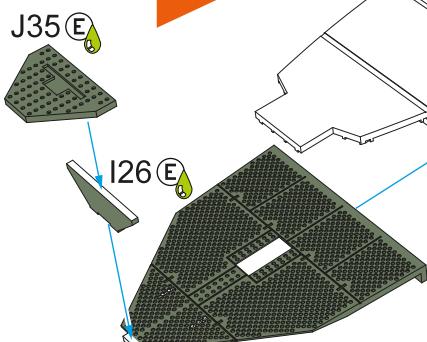
STEP20



STEP9

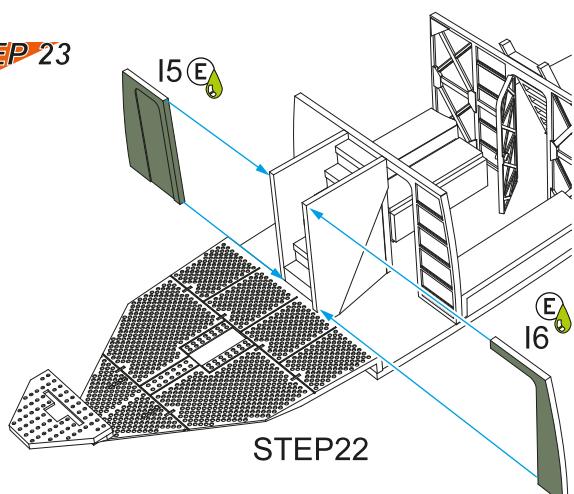


STEP 22



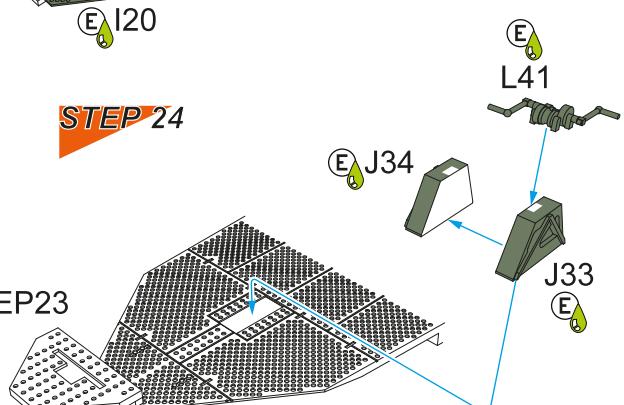
STEP21

STEP 23

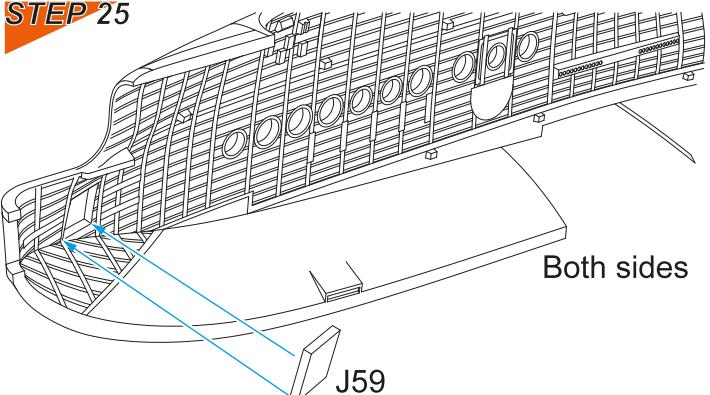


STEP22

STEP23



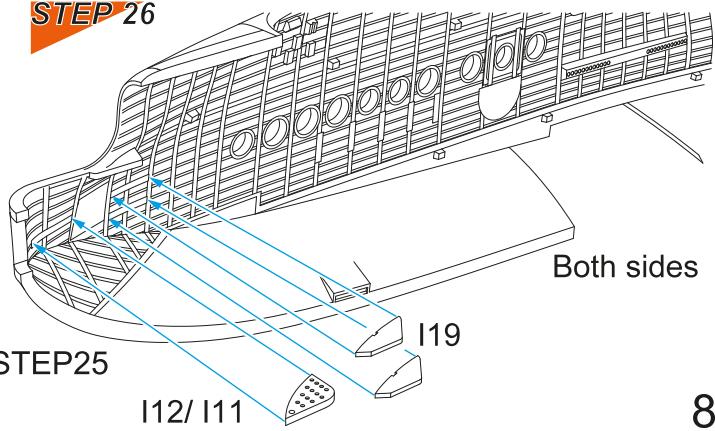
STEP 25



Both sides

J59

STEP 26



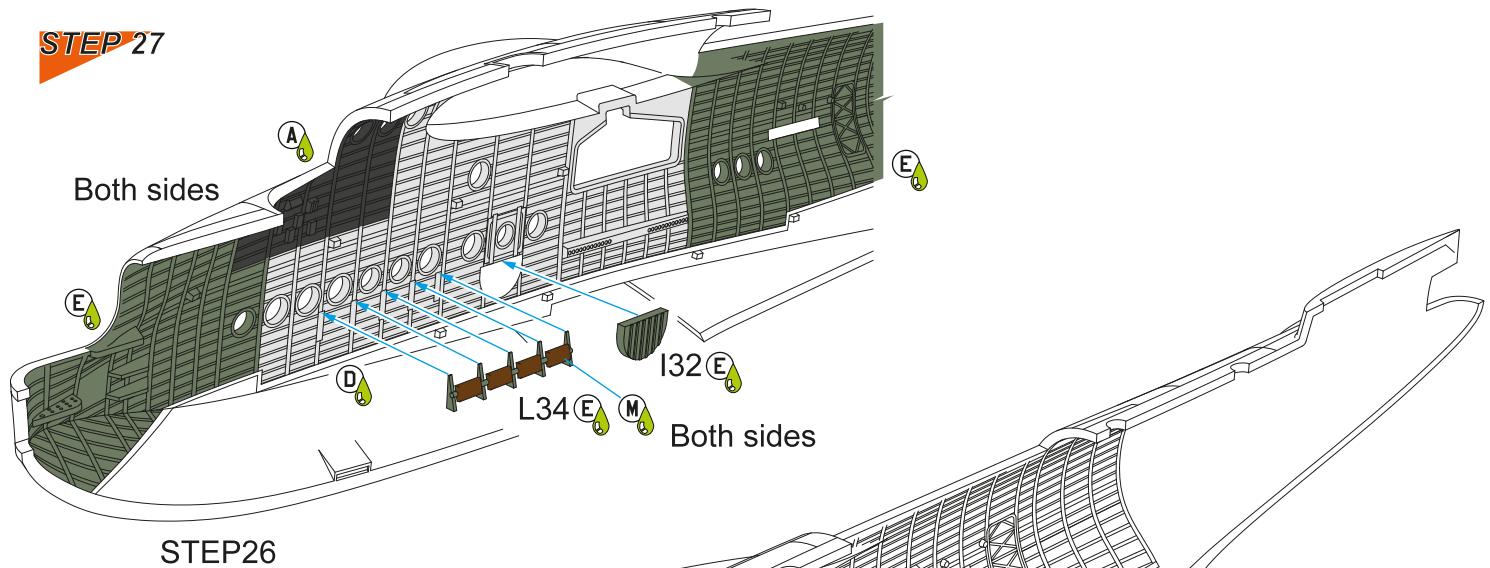
Both sides

STEP25

I12/ I11

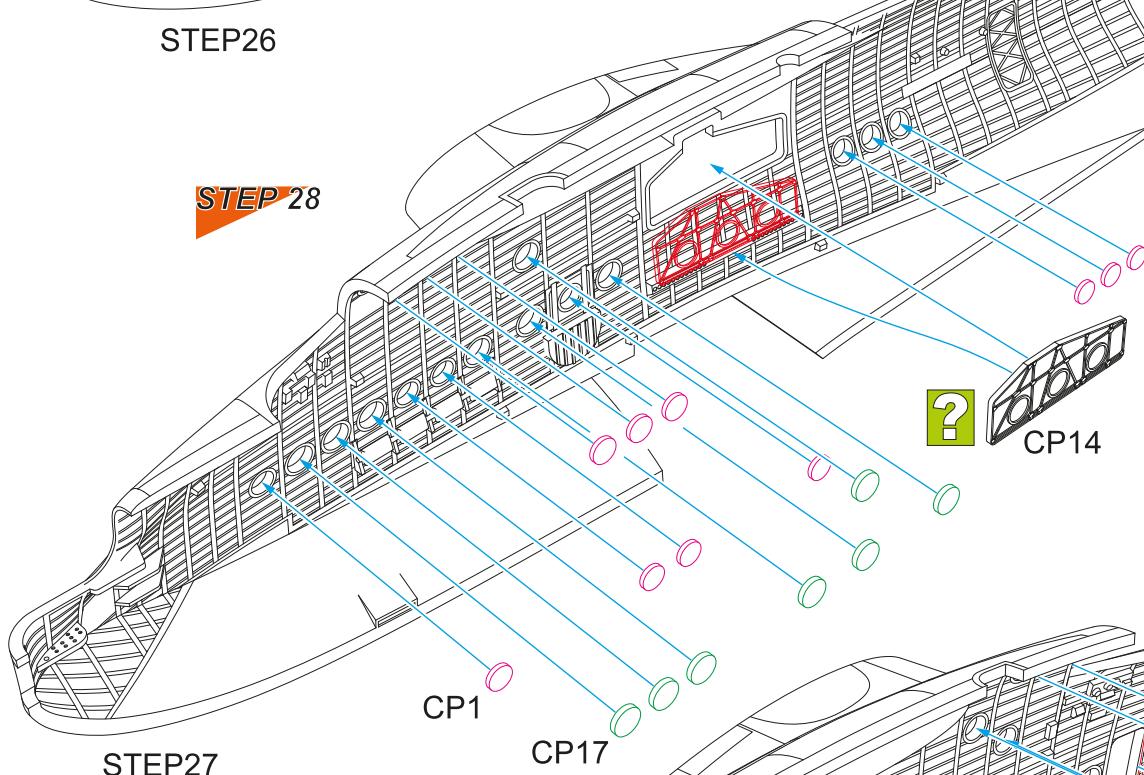
I19

STEP 27



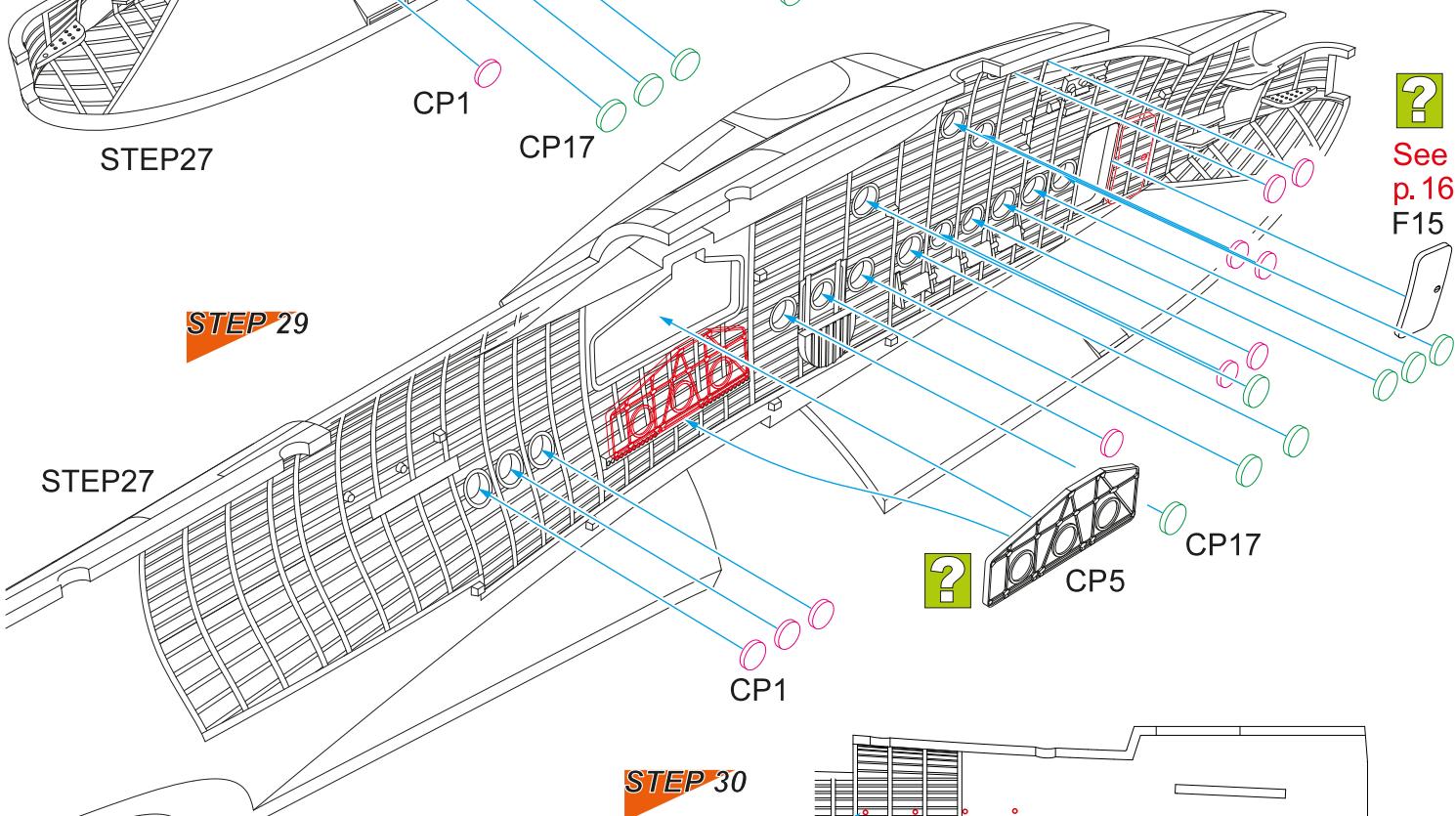
STEP26

STEP 28



STEP27

STEP 29



STEP27

STEP 30

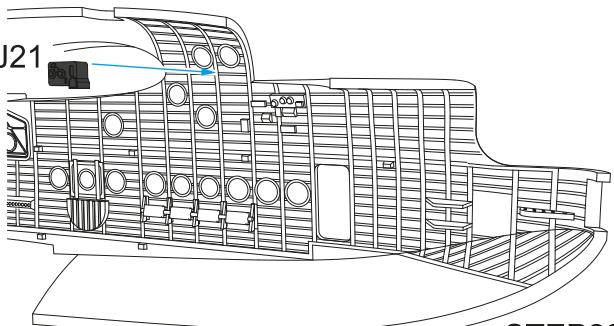
Scheme
A, B, D

Both sides
8x Ø0.6mm



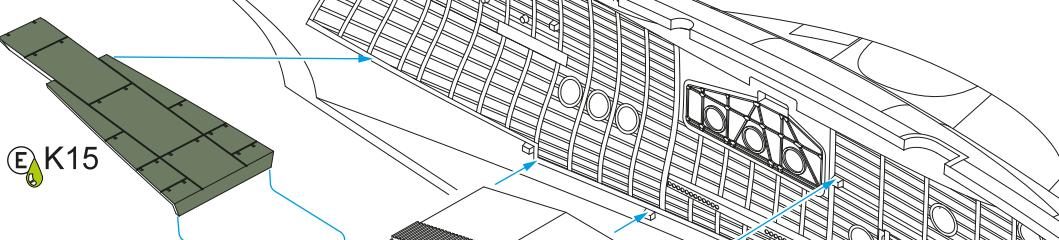
STEP 31

(A) J21



STEP29/ 30

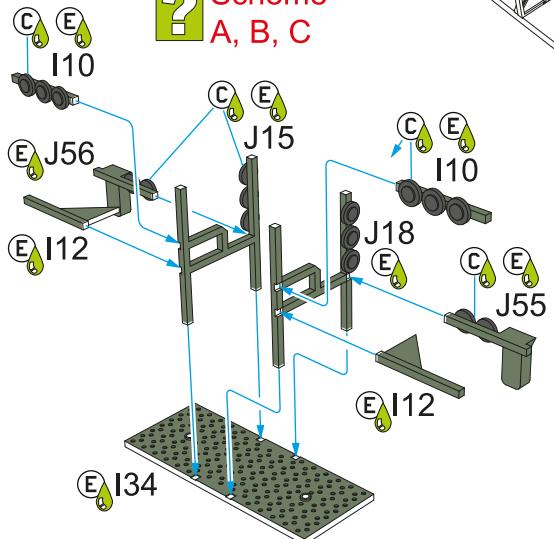
STEP 32



STEP31

STEP 33

? Scheme
A, B, C

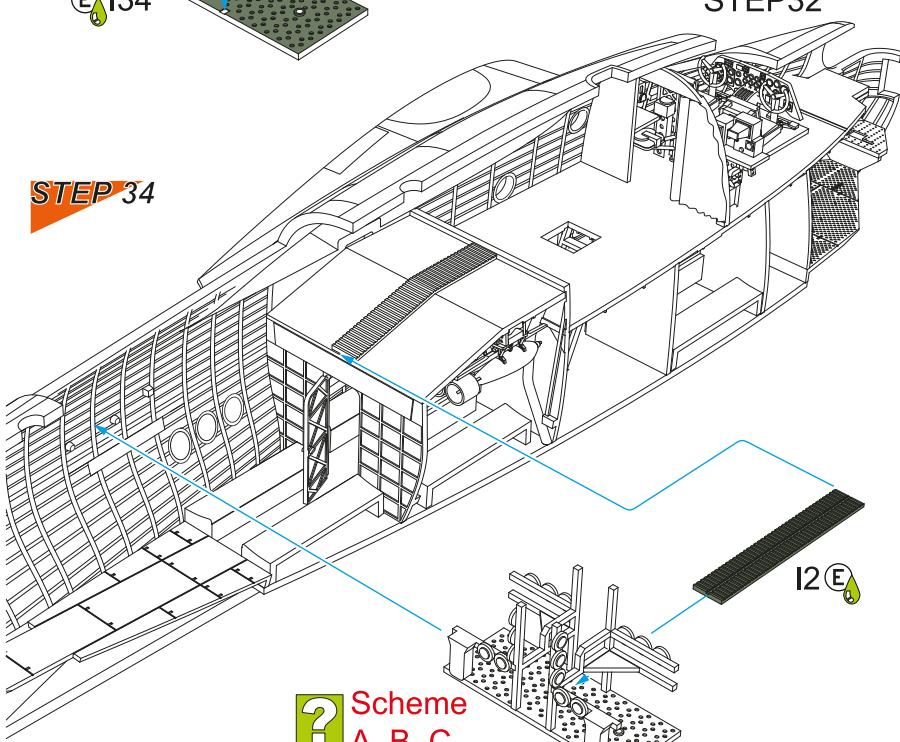


STEP24

STEP32

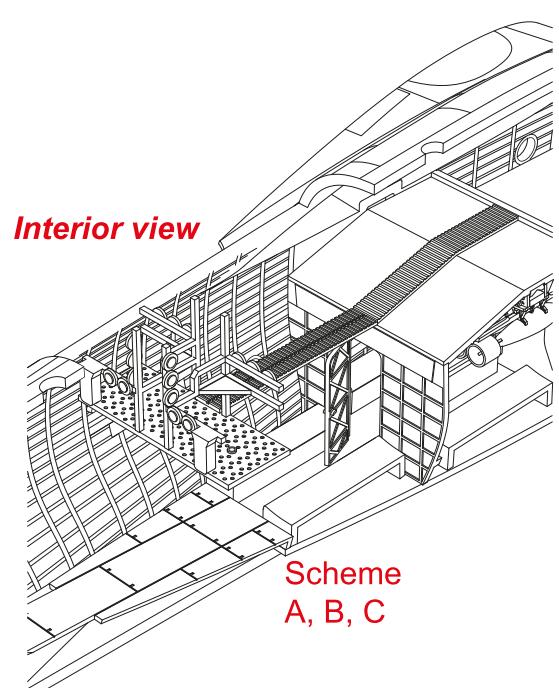
STEP 34

Interior view

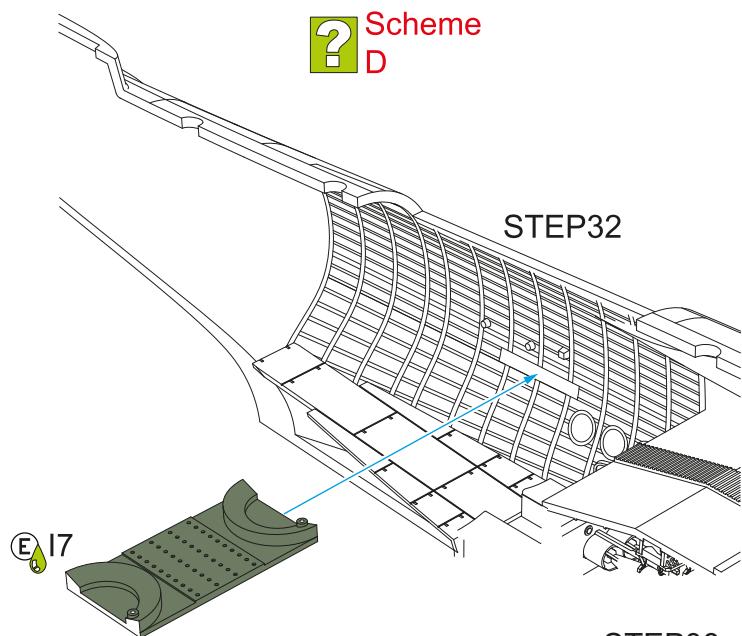


? Scheme
A, B, C

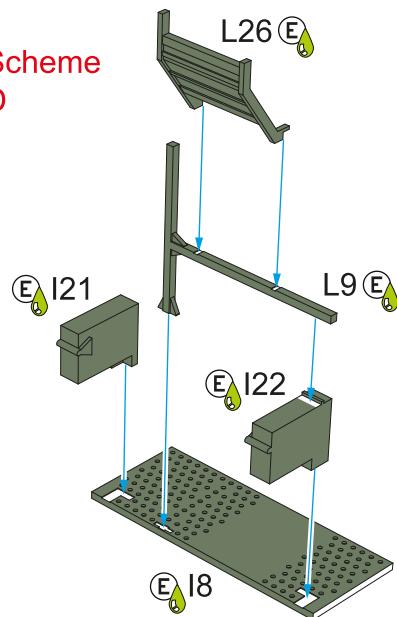
STEP33



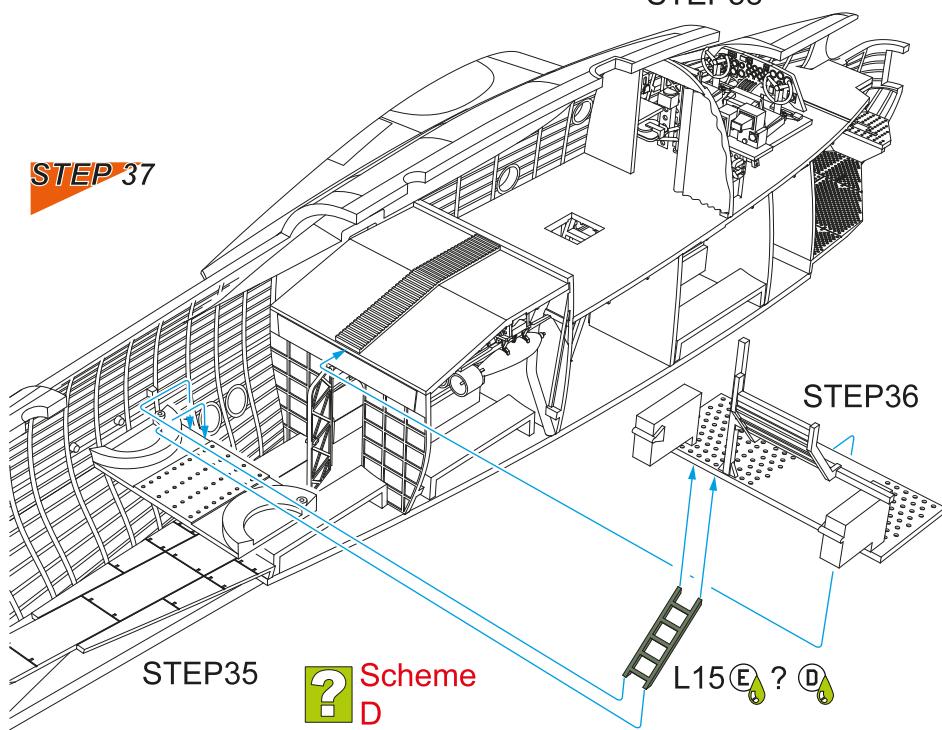
STEP 35



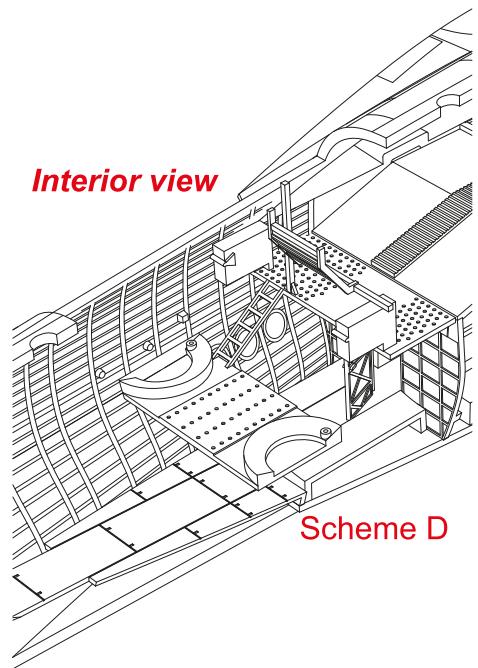
STEP 36



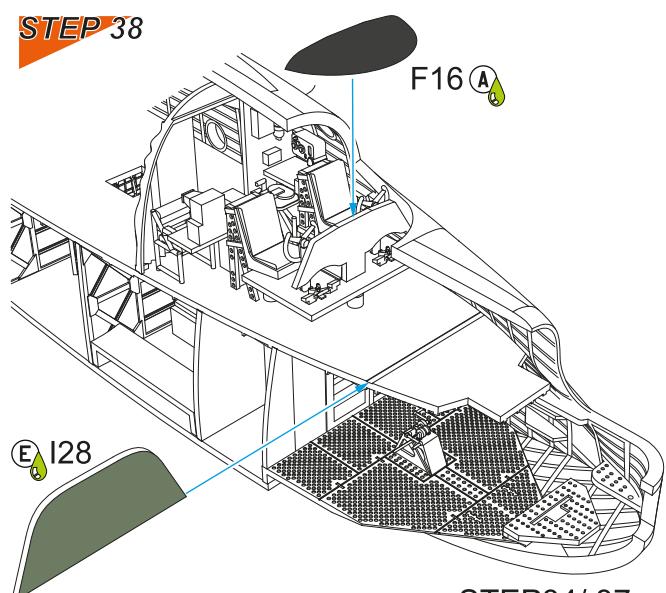
STEP 38



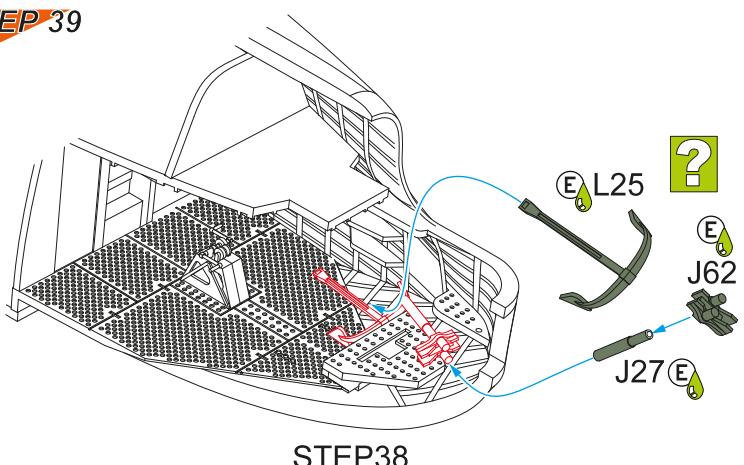
Interior view



STEP 38

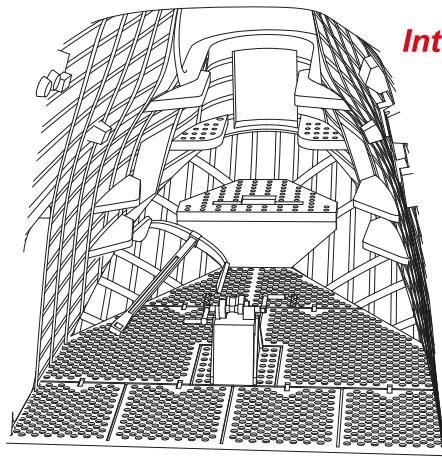


STEP 39

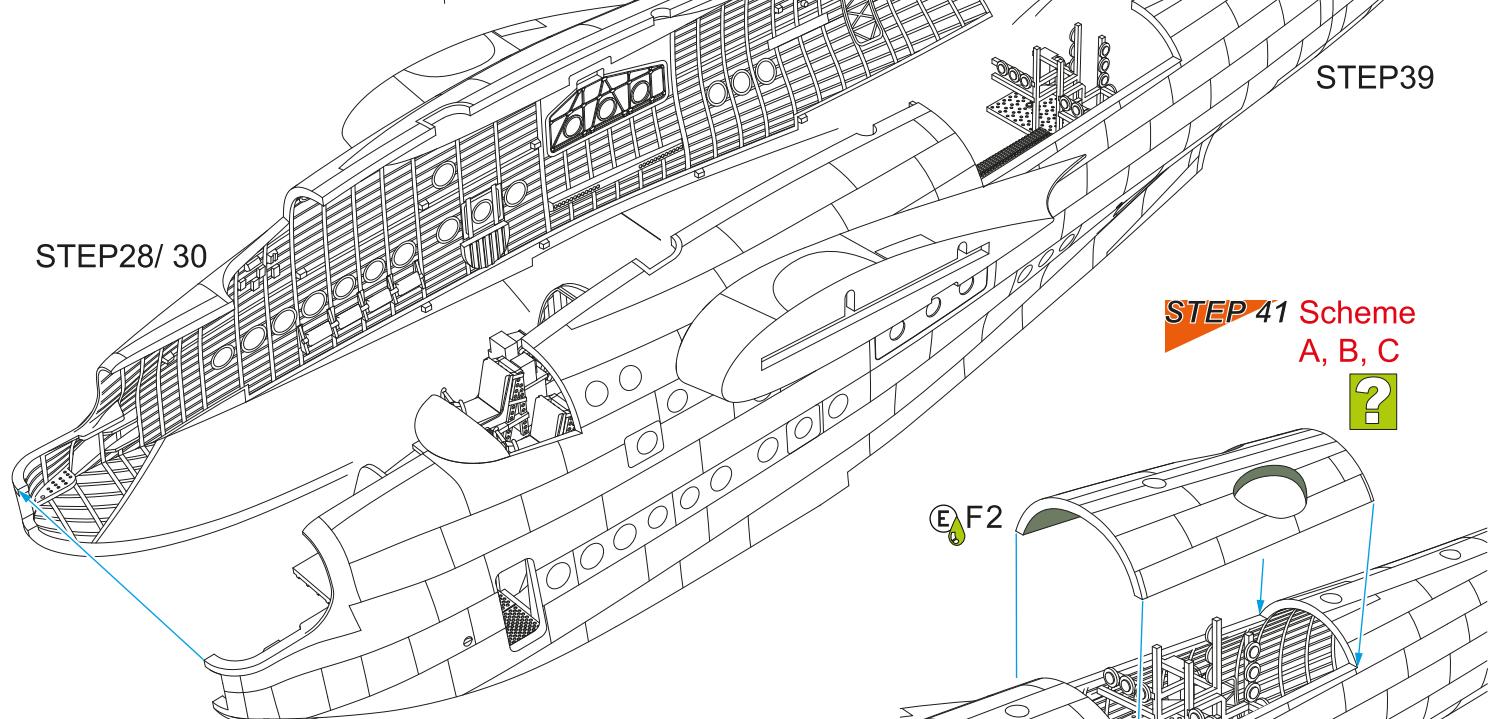


STEP34/ 37

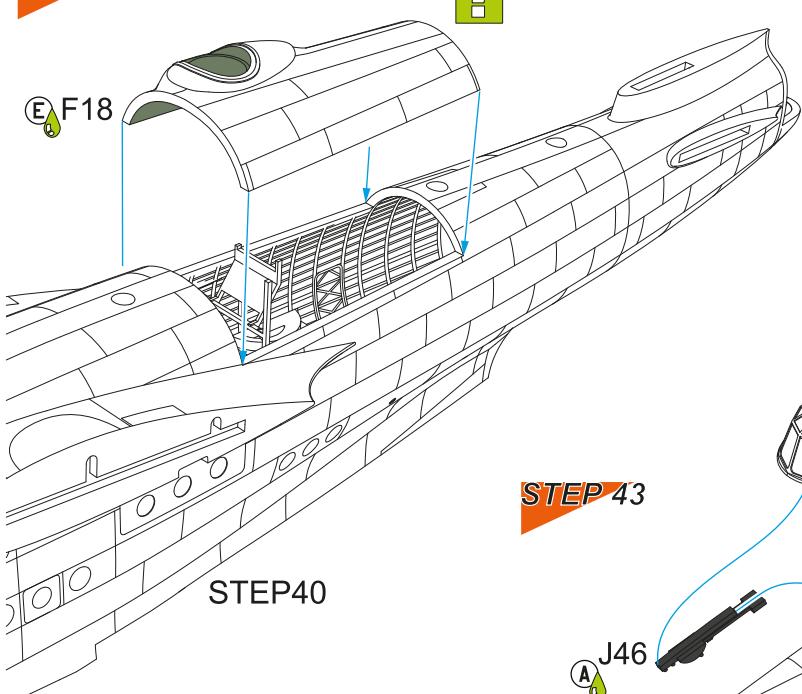
Interior view



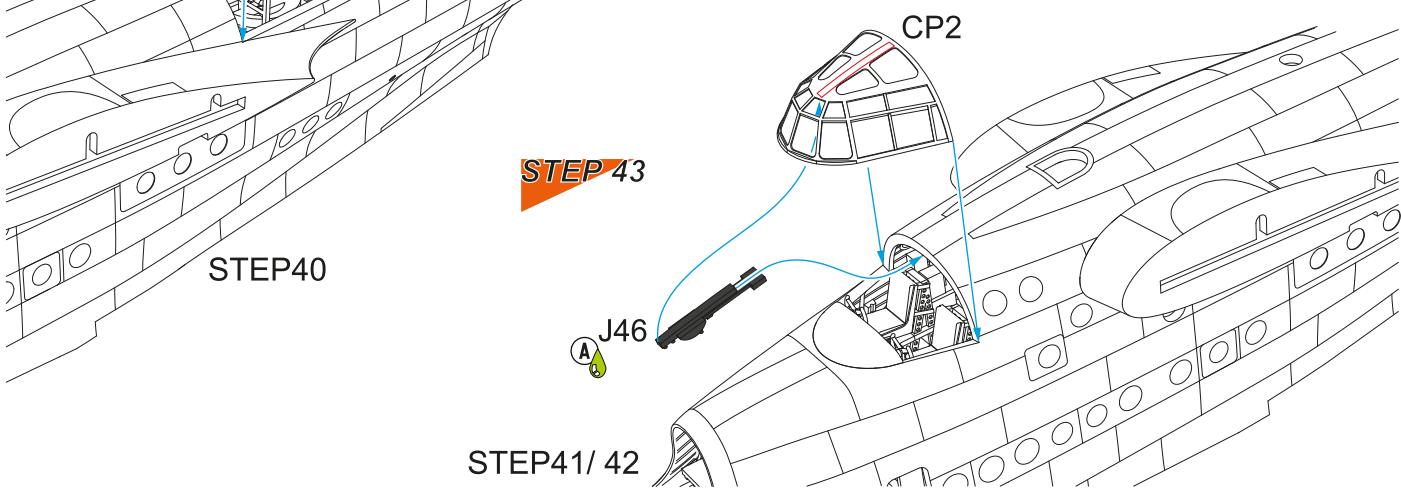
STEP40



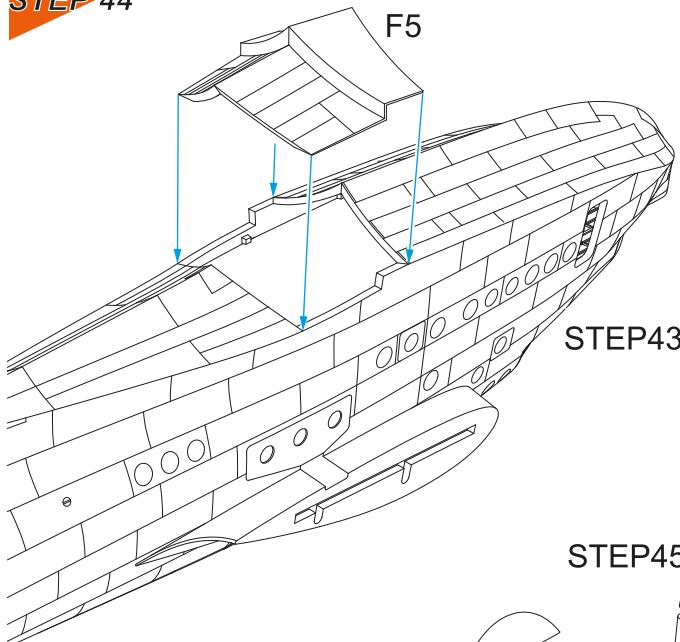
STEP 42 Scheme D



STEP 43

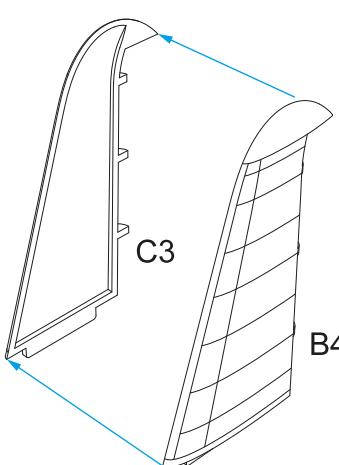


STEP 44

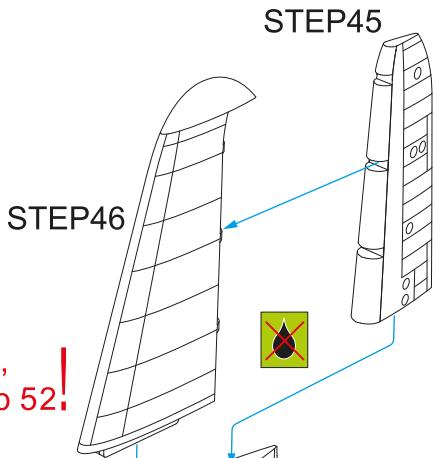


STEP 45

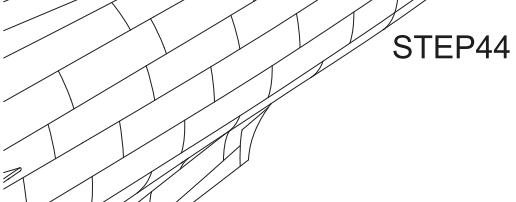
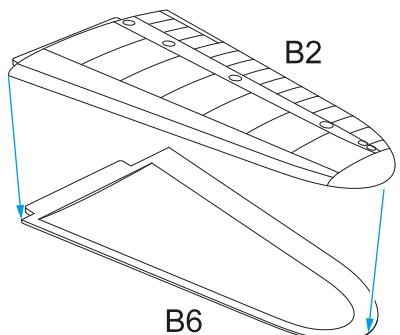
STEP 46



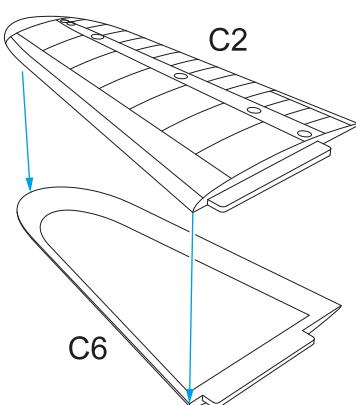
STEP 47



STEP 48



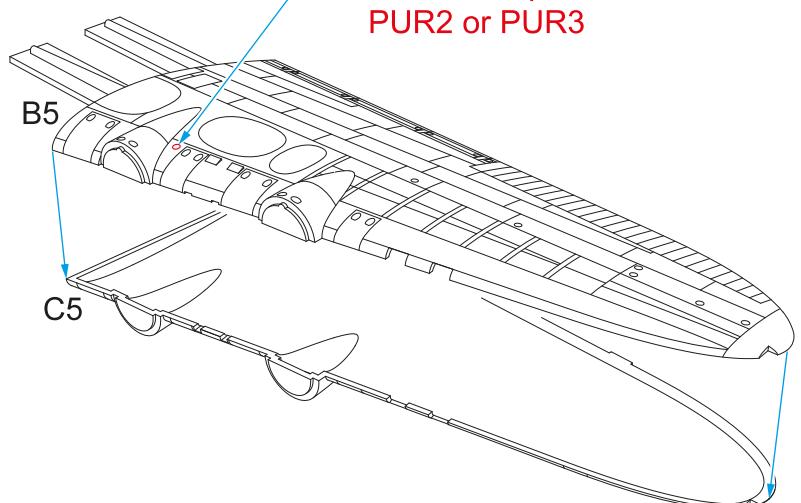
STEP 49



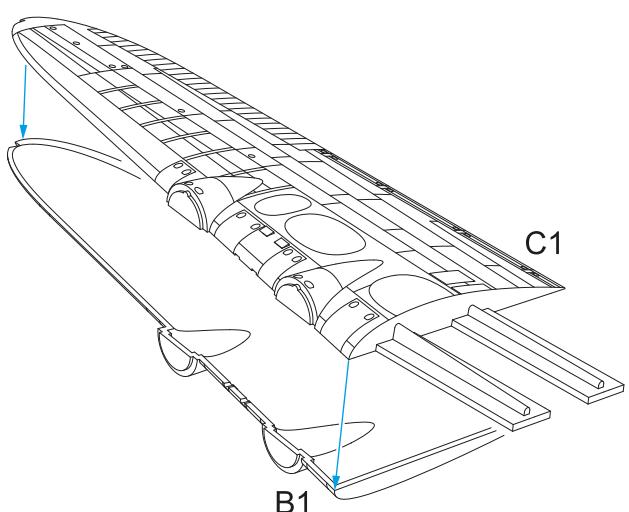
STEP 50

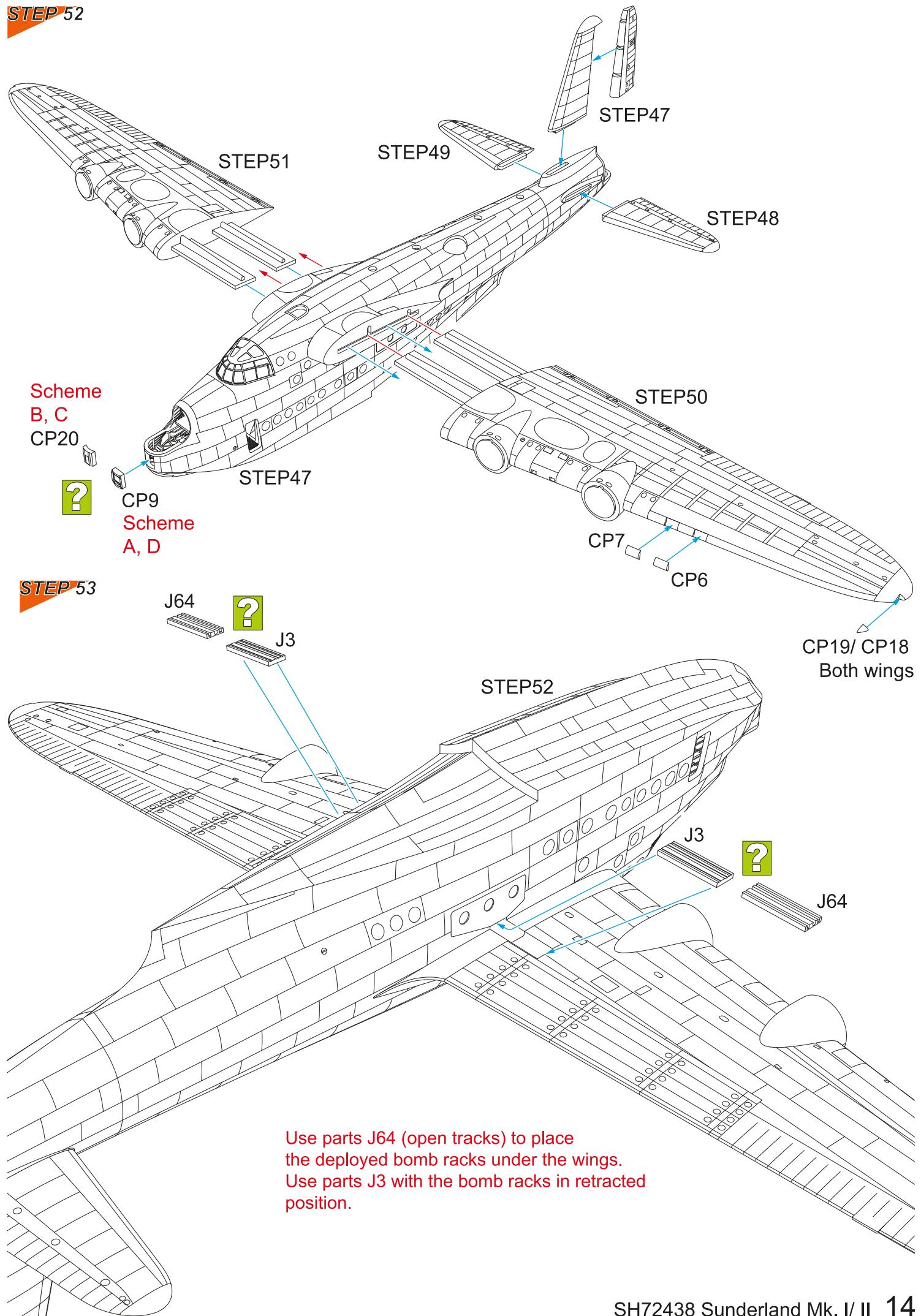


$\varnothing 2.5\text{mm} - 3.0\text{mm}$
test fit with parts
PUR2 or PUR3

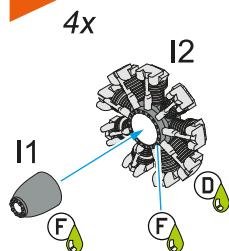


STEP 51

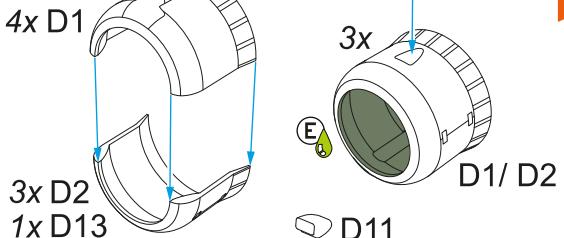




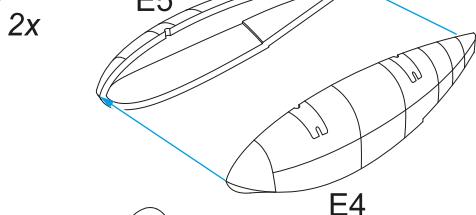
STEP 54



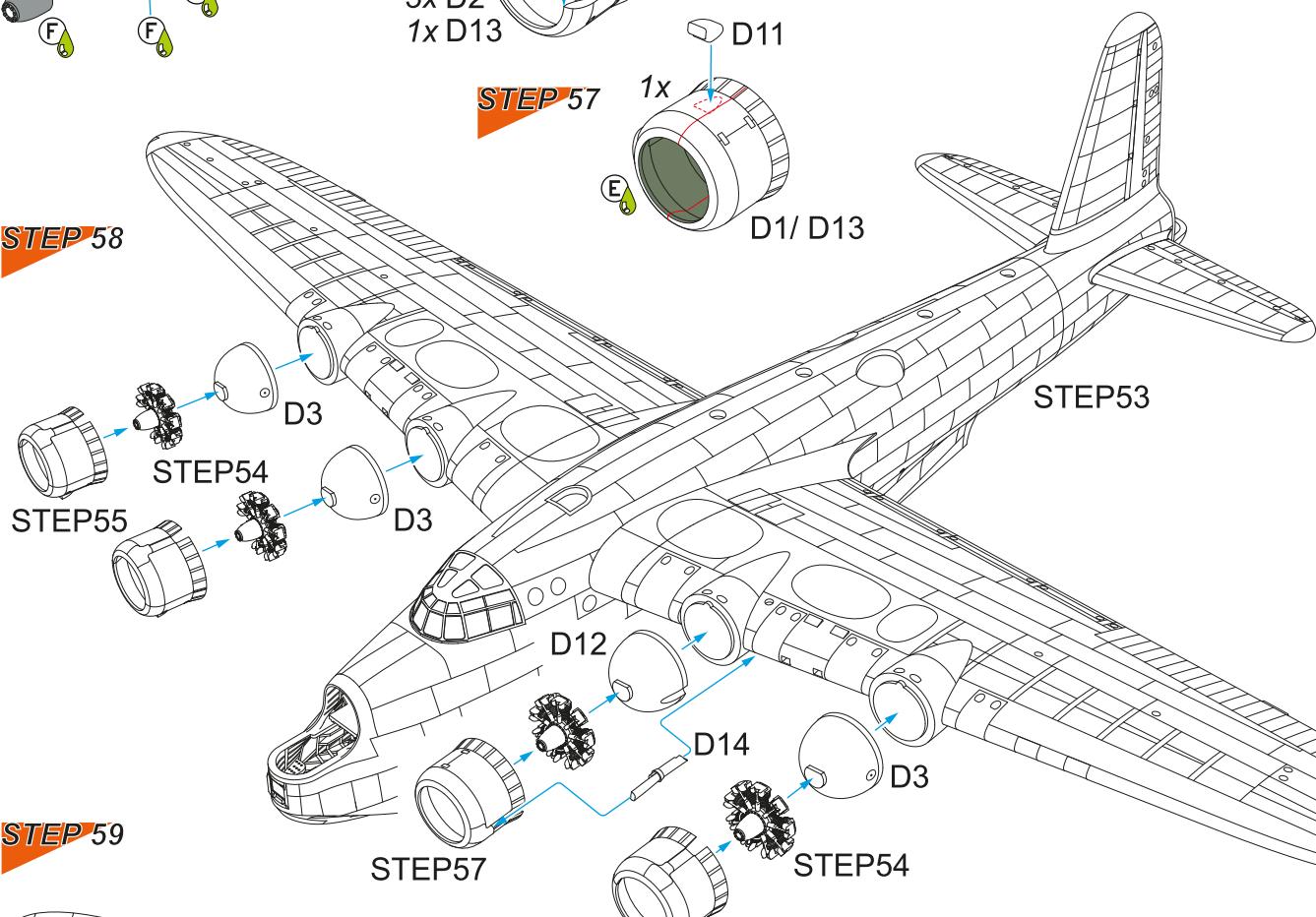
STEP 55



STEP 56



STEP 58



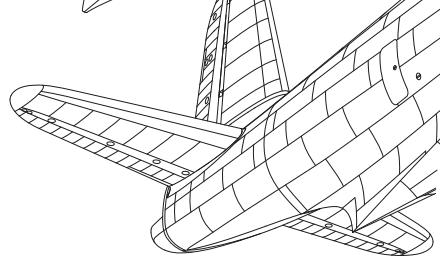
STEP 59

Both wings



STEP58

STEP56



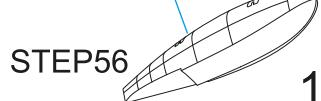
STEP18



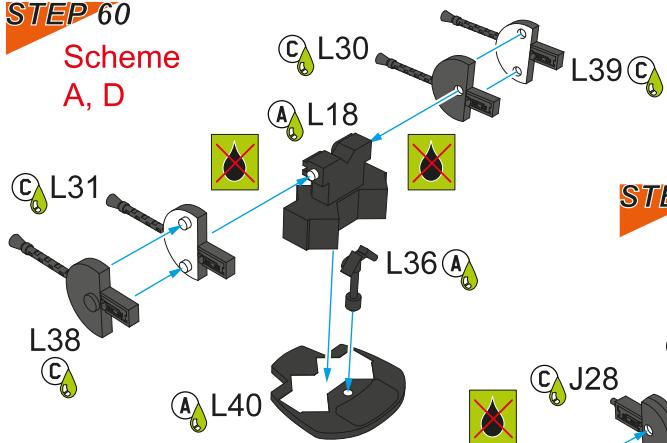
STEP18



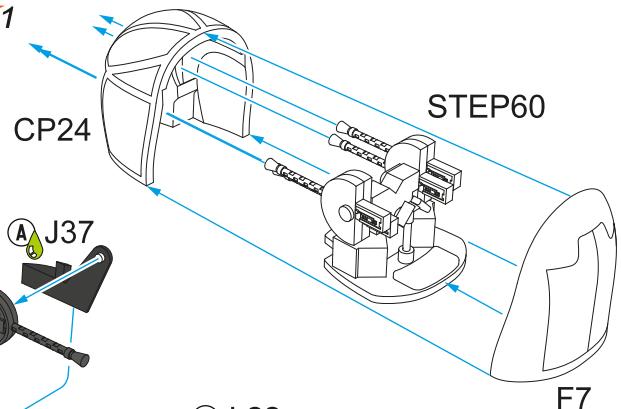
STEP56



STEP 60
Scheme
A, D

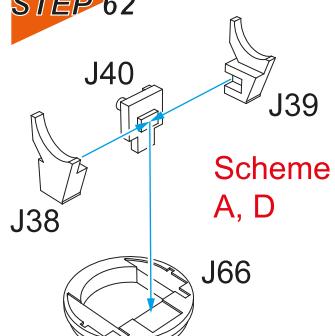


STEP 61



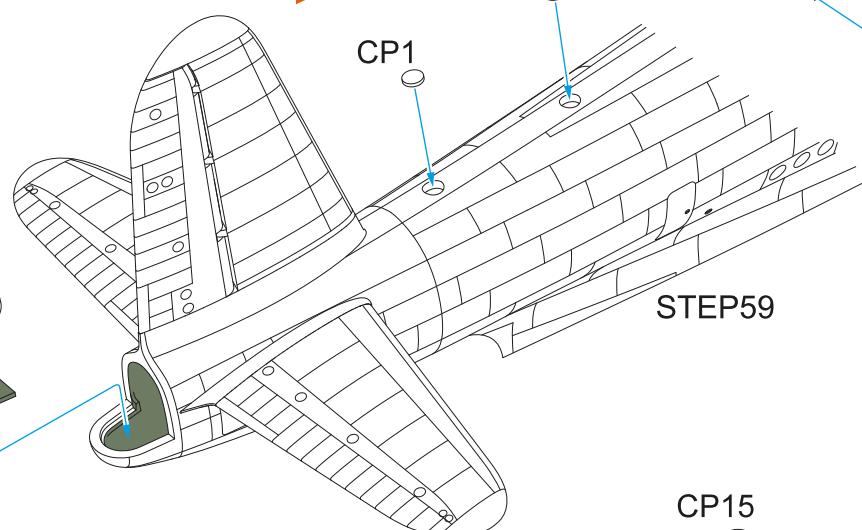
STEP60

STEP 62



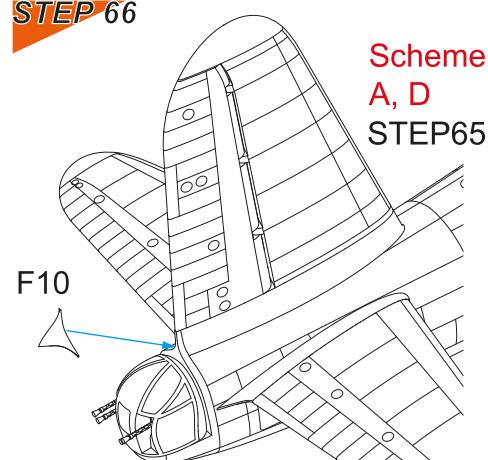
Scheme
A, D
STEP62

Scheme
A, D
STEP61



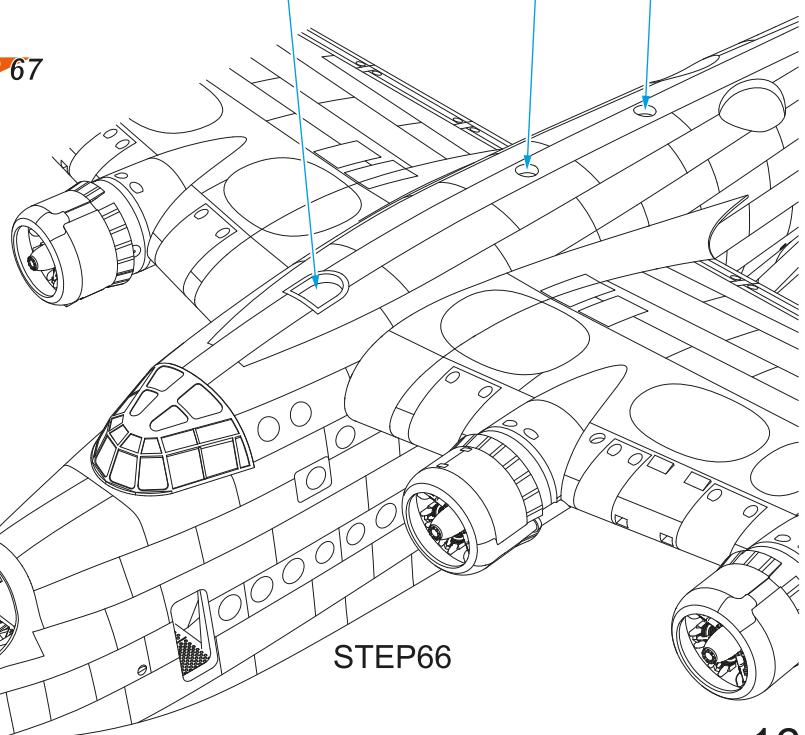
STEP59

STEP 66



Scheme
A, D
STEP65

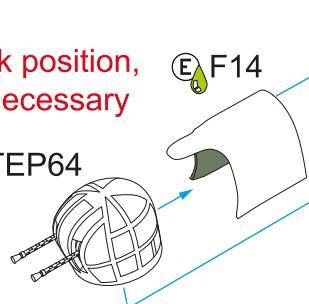
STEP 67



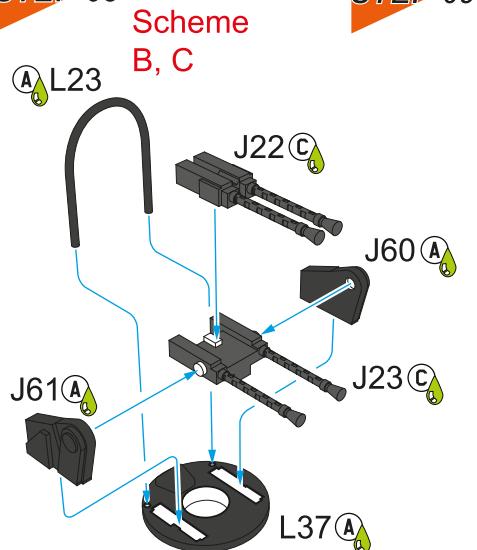
SH72438 Sunderland Mk. I / II 16

For slid-back position,
glue is not necessary

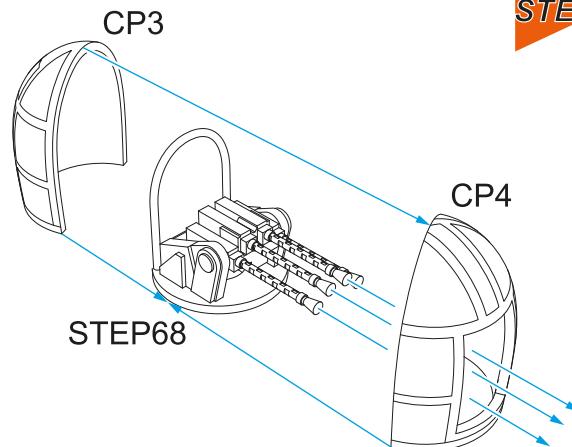
Scheme STEP64
A, D



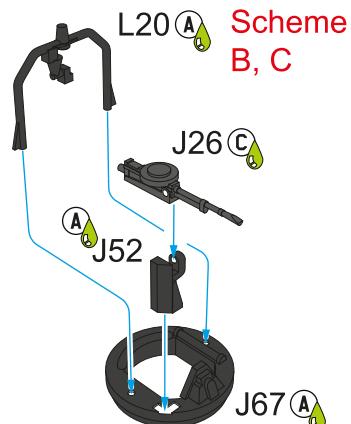
STEP 68



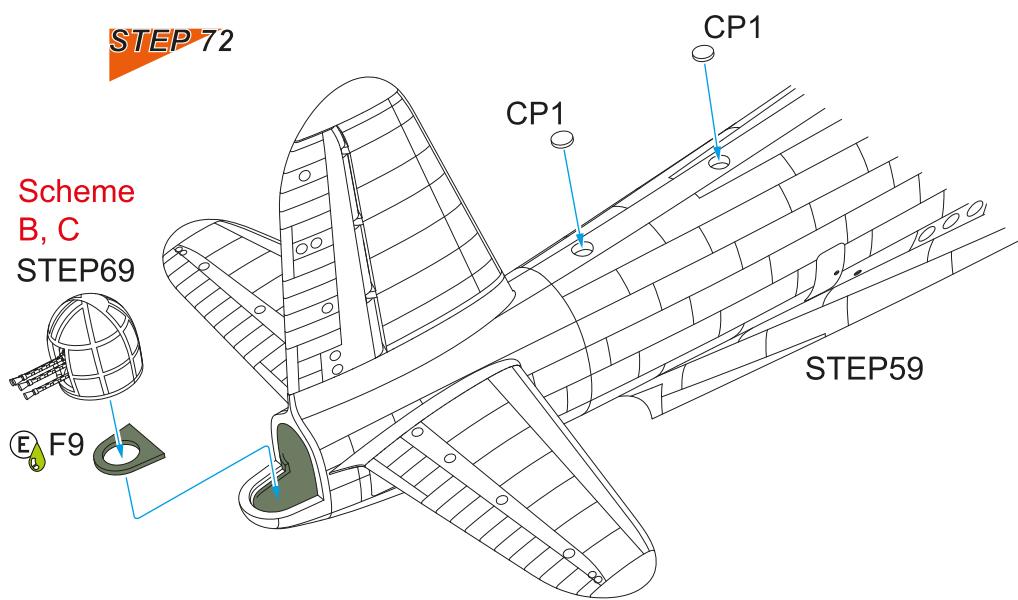
STEP 69



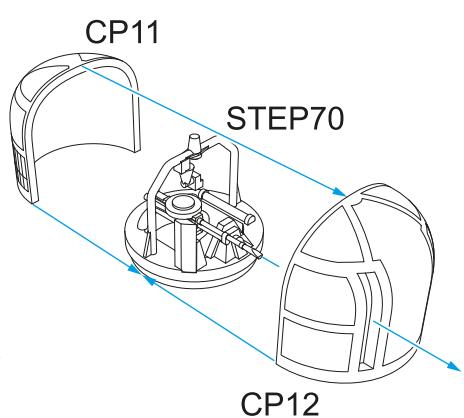
STEP 70



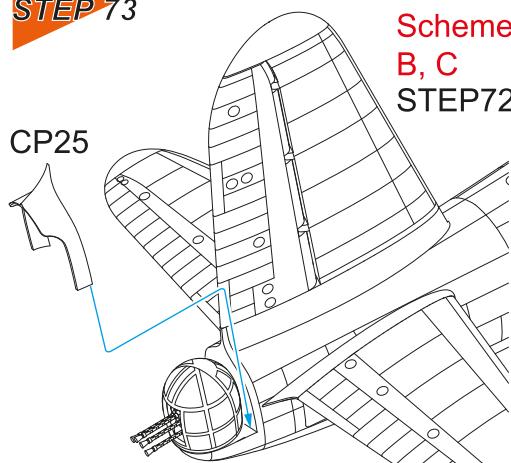
STEP 72



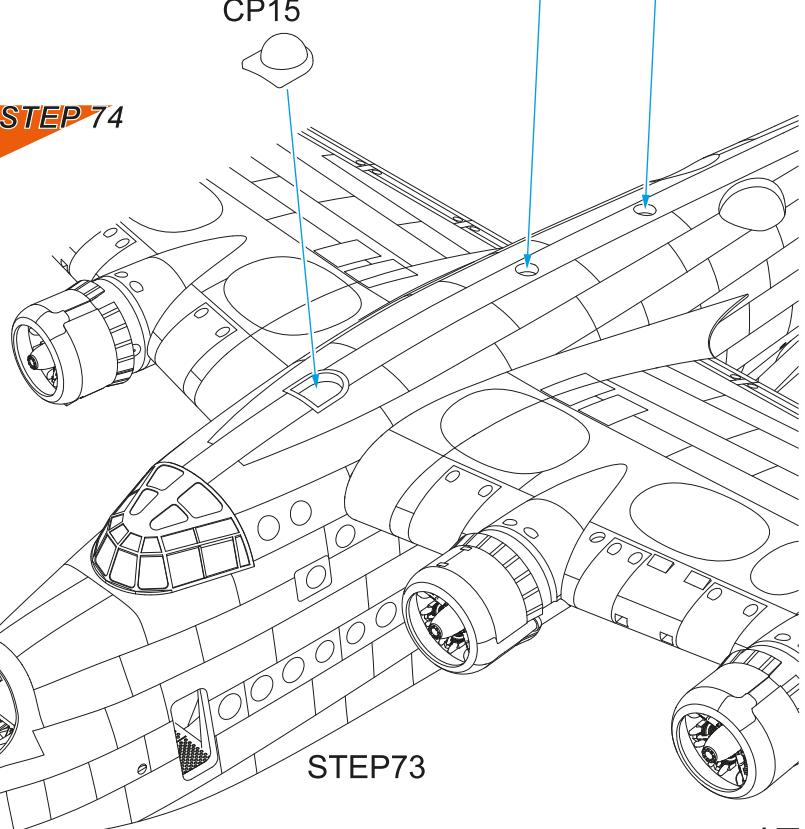
STEP 71



STEP 73

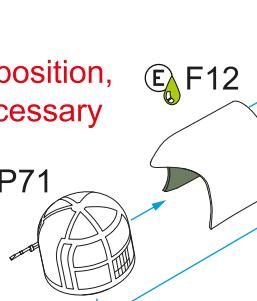


STEP 74

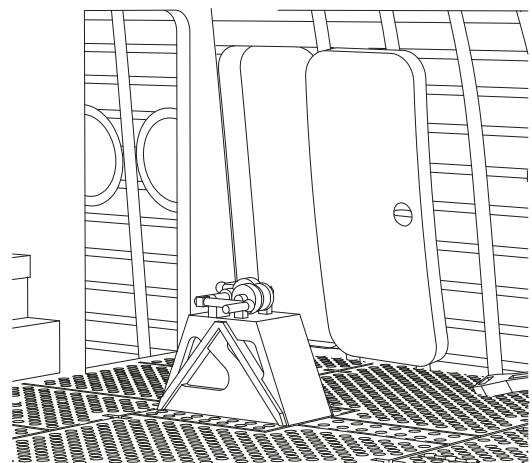


For slid-back position,
glue is not necessary

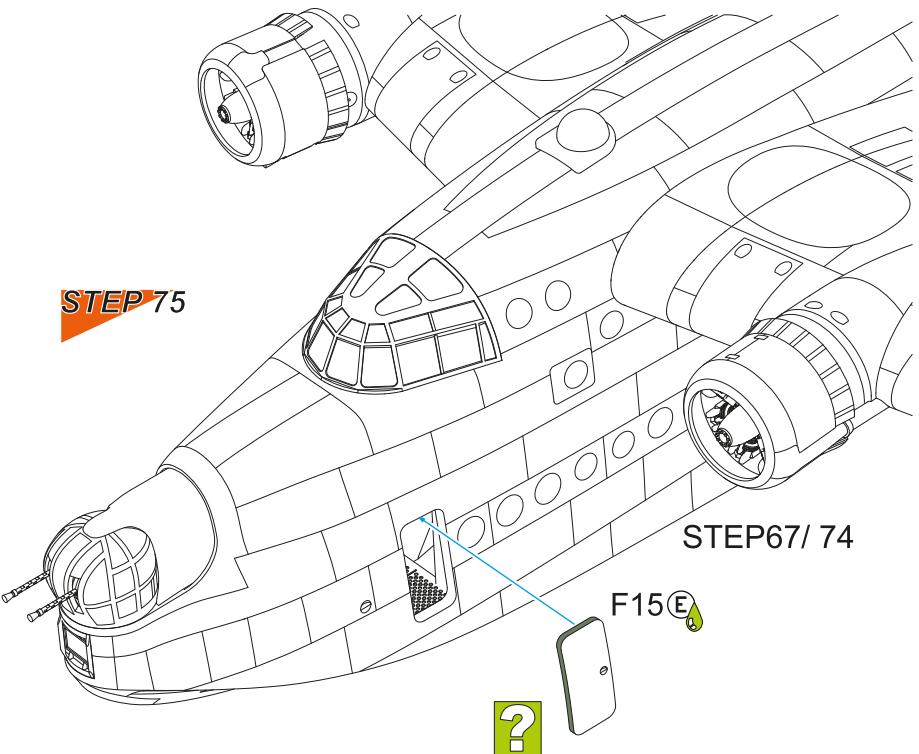
Scheme STEP 71
B, C



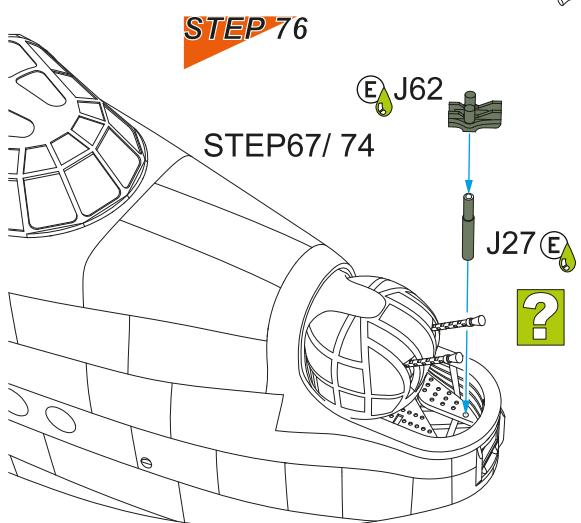
Interior view with the front door open



STEP 75



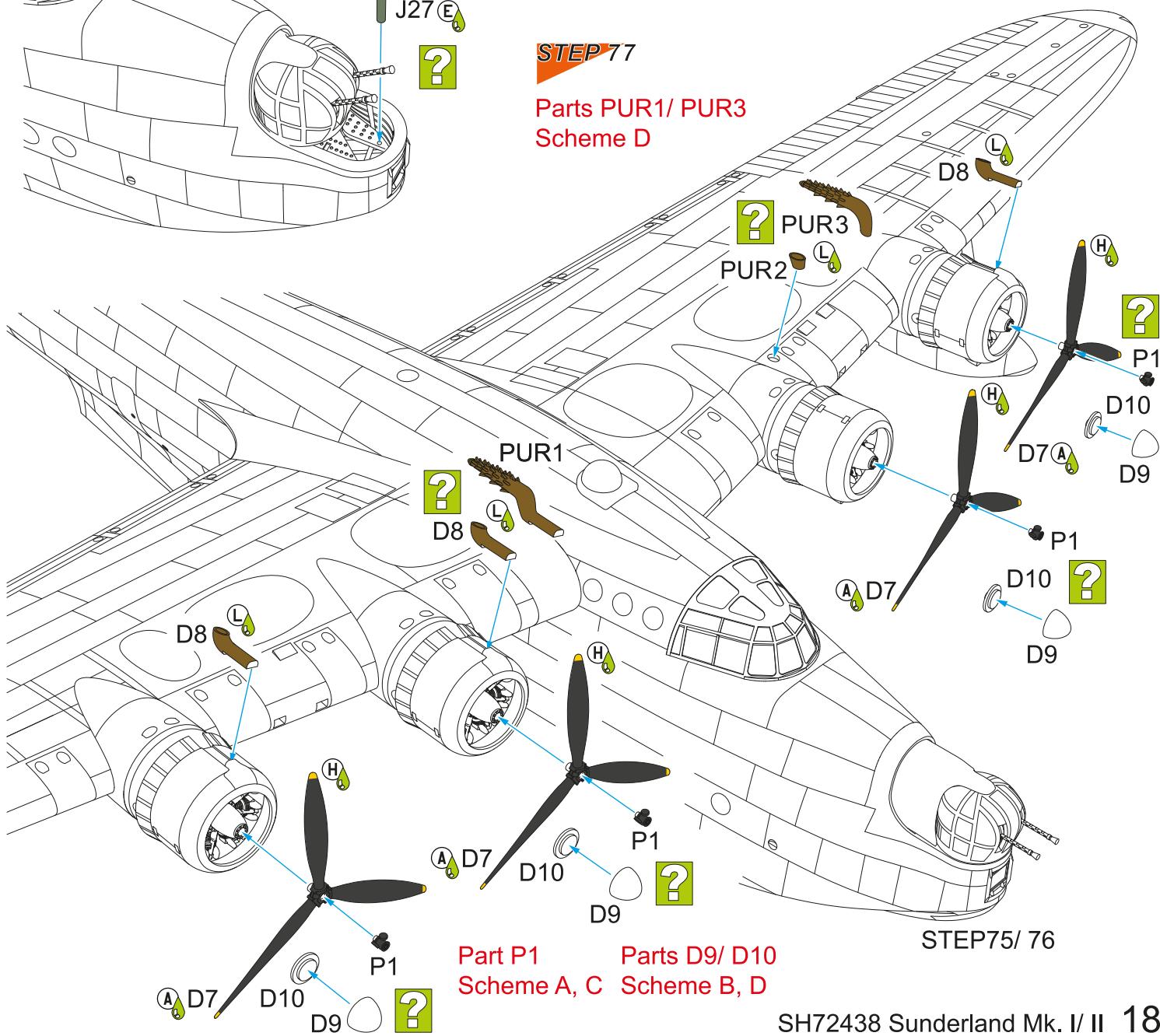
STEP67/ 74



STEP 76

STEP 77

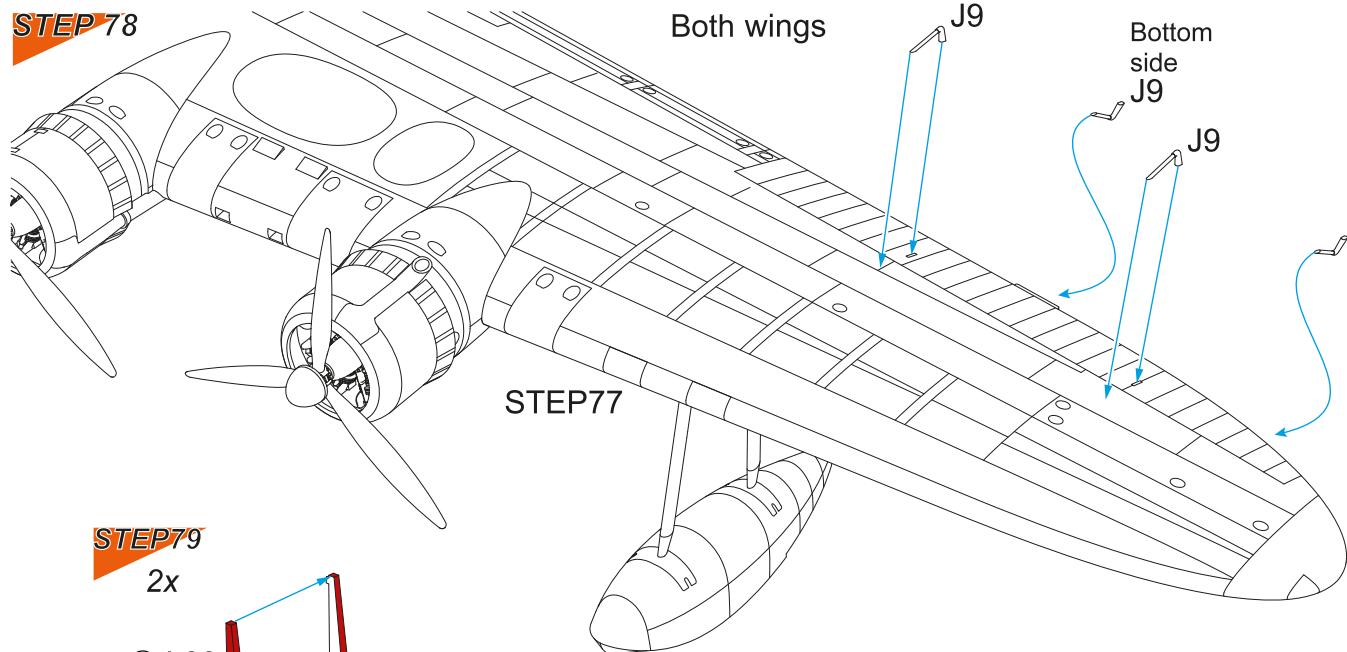
Parts PUR1/ PUR3
Scheme D



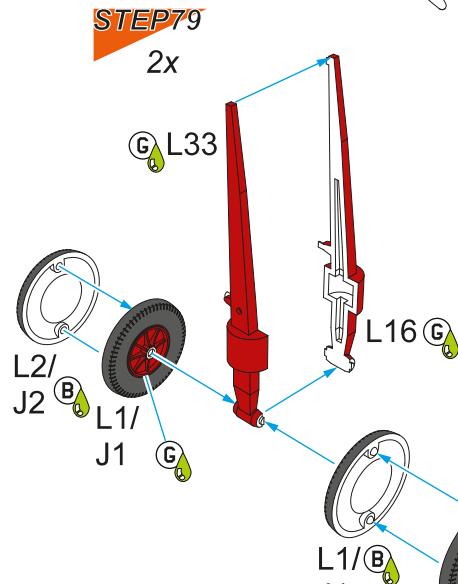
STEP75/ 76

Part P1
Scheme A, C
Parts D9/ D10
Scheme B, D

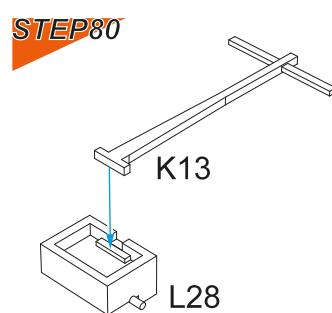
STEP78



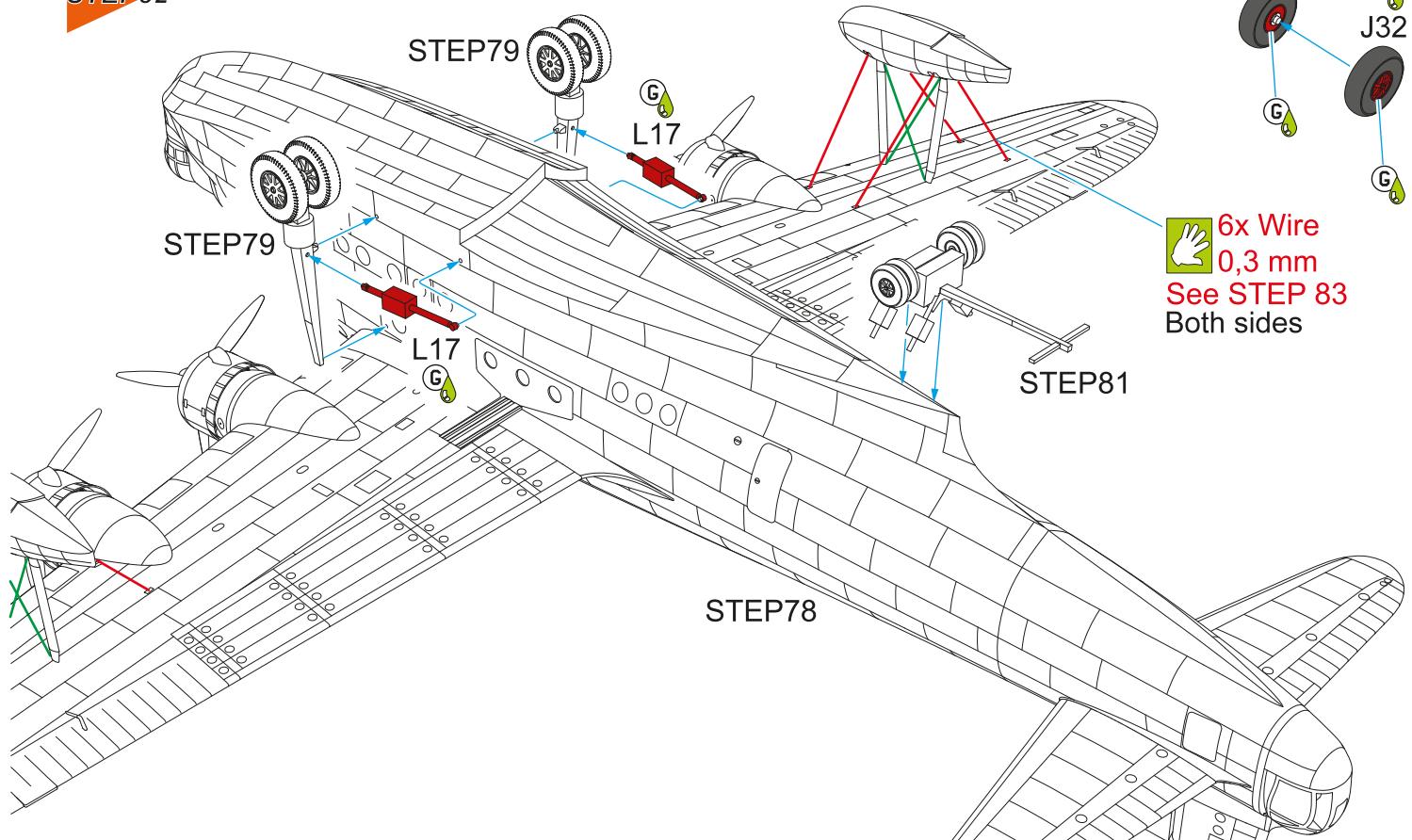
STEP77



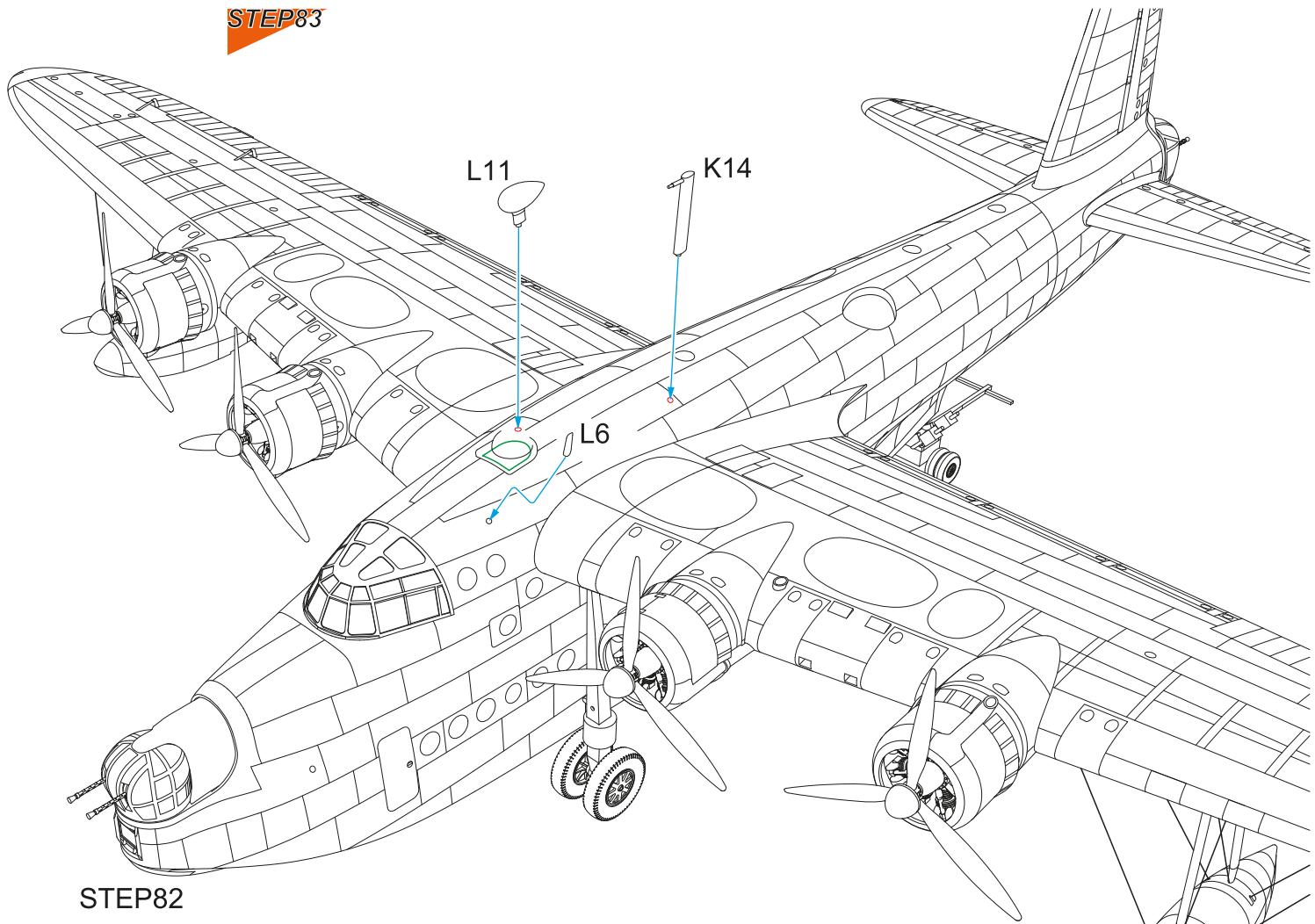
STEP81



STEP82

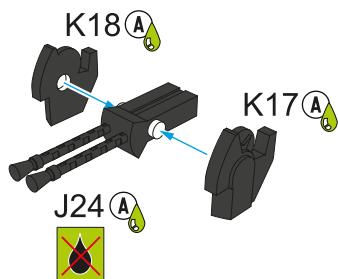


STEP83

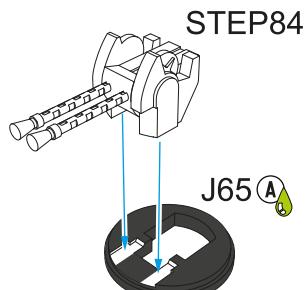


STEP82

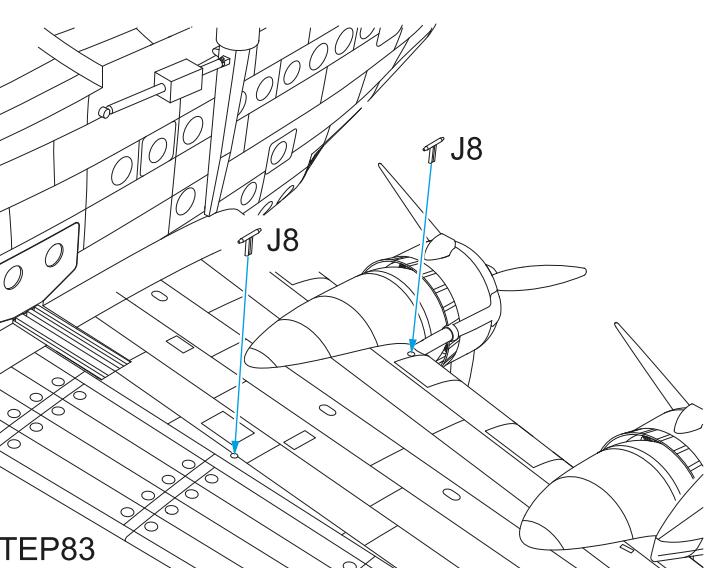
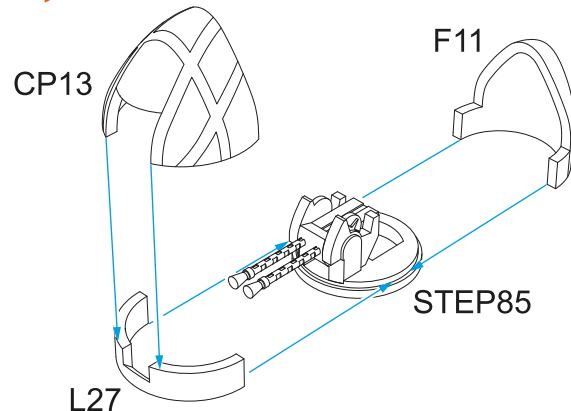
STEP84 Scheme D



STEP85

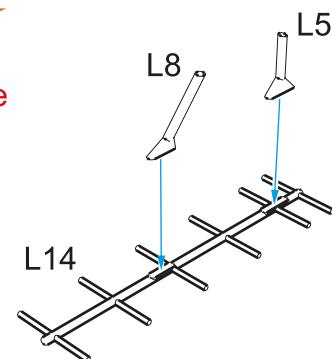


STEP86



STEP83

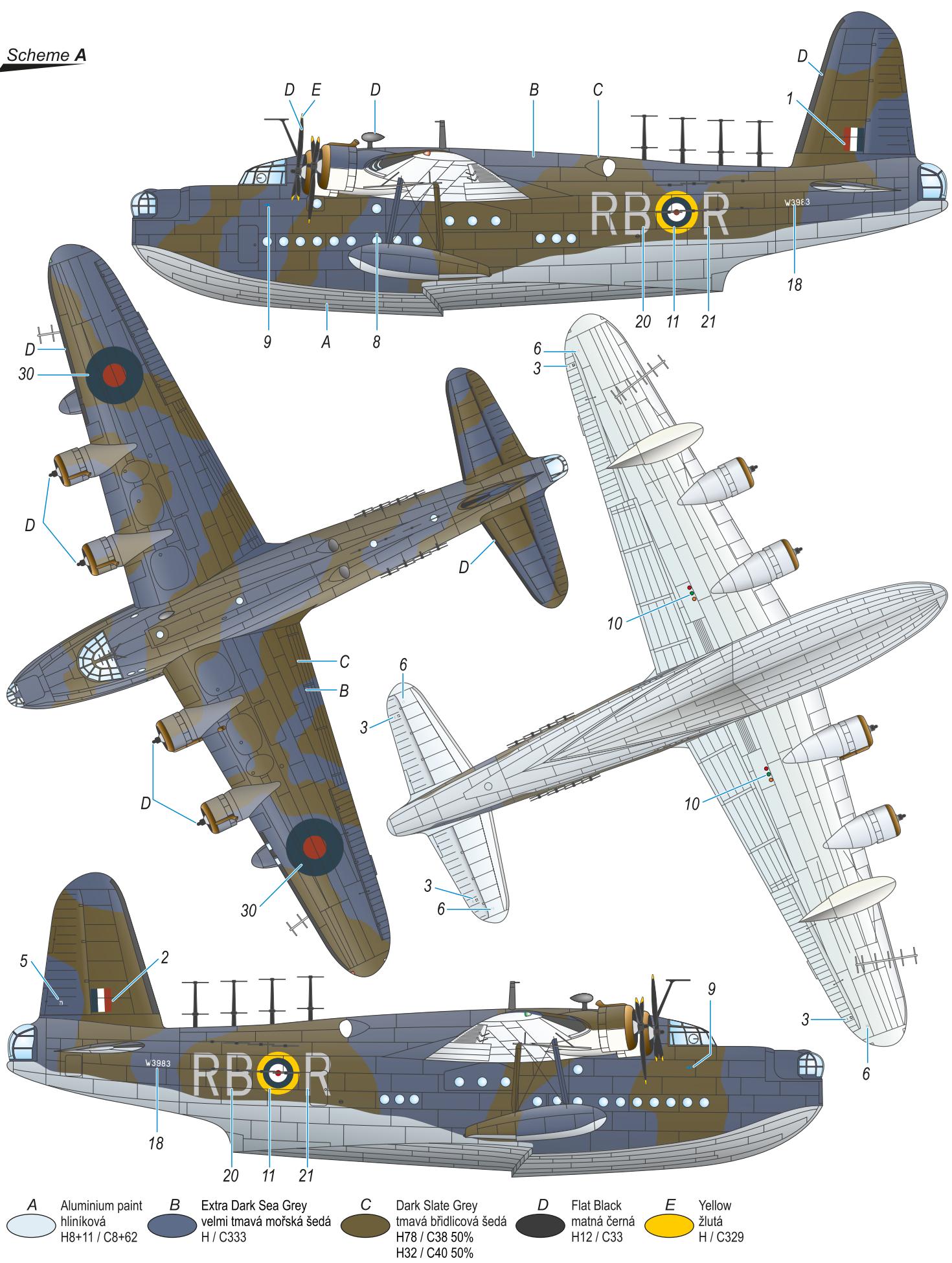
STEP88
2x
Scheme
A, B, D



Short Sunderland Mk.II, W3983/RB-R, No.10 Sqn. RAAF, based at Pembroke, Wales, latter half of 1941. On 15 May 1942, W3983 carried out an attack on a German submarine, during which it was damaged, begun to lose fuel and consequently had to emergency land on the sea. The machine was eventually towed to Gibraltar and repaired.

Short Sunderland Mk.II, W3983/RB-R, No.10 Sqn. RAAF, základna Pembroke, Wales, druhá polovina roku 1941. 15. května 1942 zaútočil W3983 na ponorku. Při útoku byl poškozen a pro nedostatek paliva přistál na moři. Byl odtažen do Gibraltaru, kde byl i opraven.

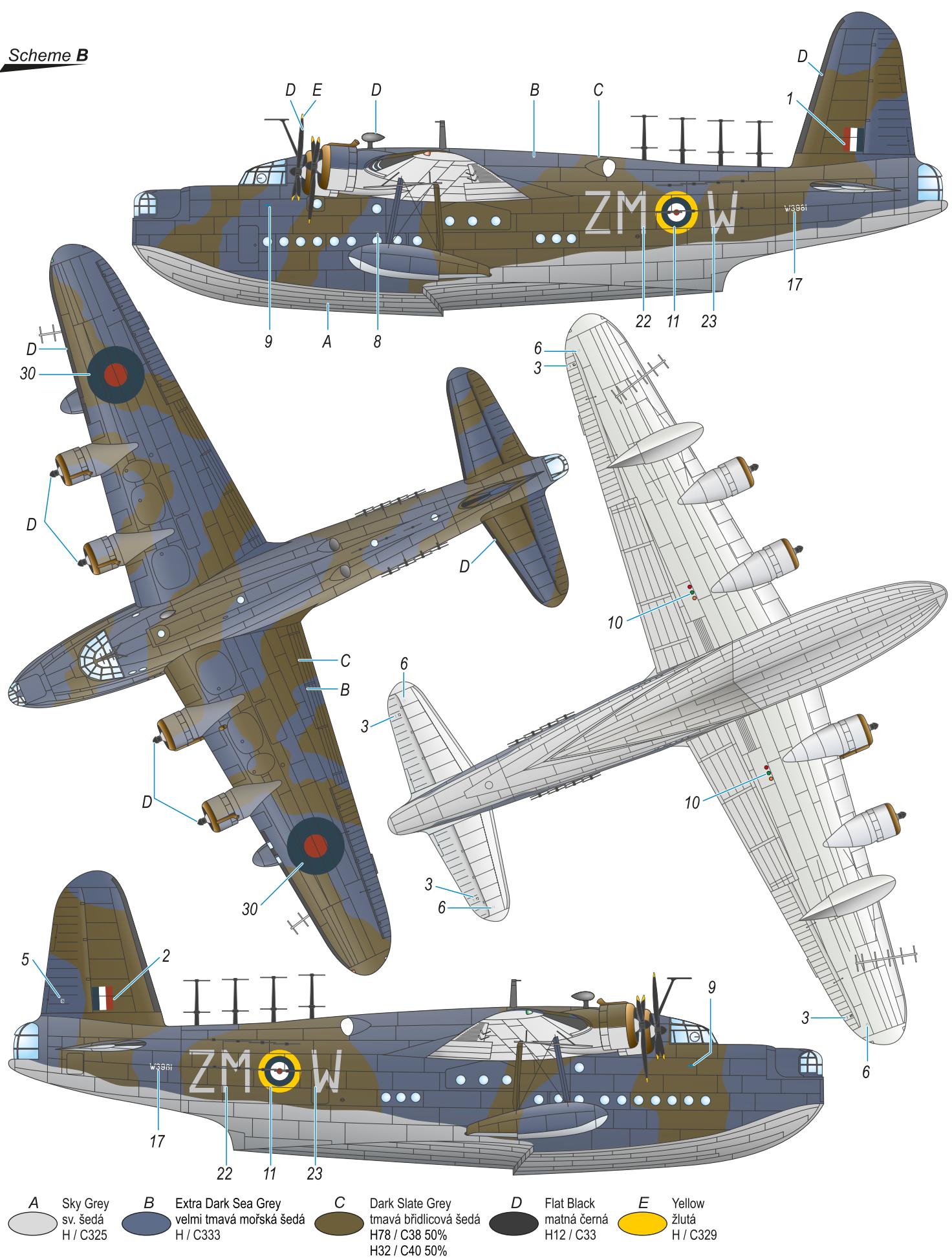
Scheme A



Short Sunderland Mk.II, W3981/ZM-W, No.201 Sqn. RAF, based at Pembroke, Wales, latter half of 1941. In December 1941, the machine was transferred to Alexandria, Egypt to perform transport duties, and returned to the UK in February the following year. On landing on 12 February 1942 its wing tip was torn off by a tree. After being repaired, W3981 went on serving to 4.(C) OTU training unit.

Short Sunderland Mk.II, W3981/ZM-W, No.201 Sqn. RAF, základna Pembroke, Wales, druhá polovina roku 1941. V prosinci 1941 byl přesunut do Alexandrie (Egypt) k transportním úkolům. V únoru 1942 se vrátil zpět. Při přistání 12 února 1942 přišel o konec křídla nárazem do stromu. Po opravě byl přesunut k cvičné jednotce 4. (C) OTU.

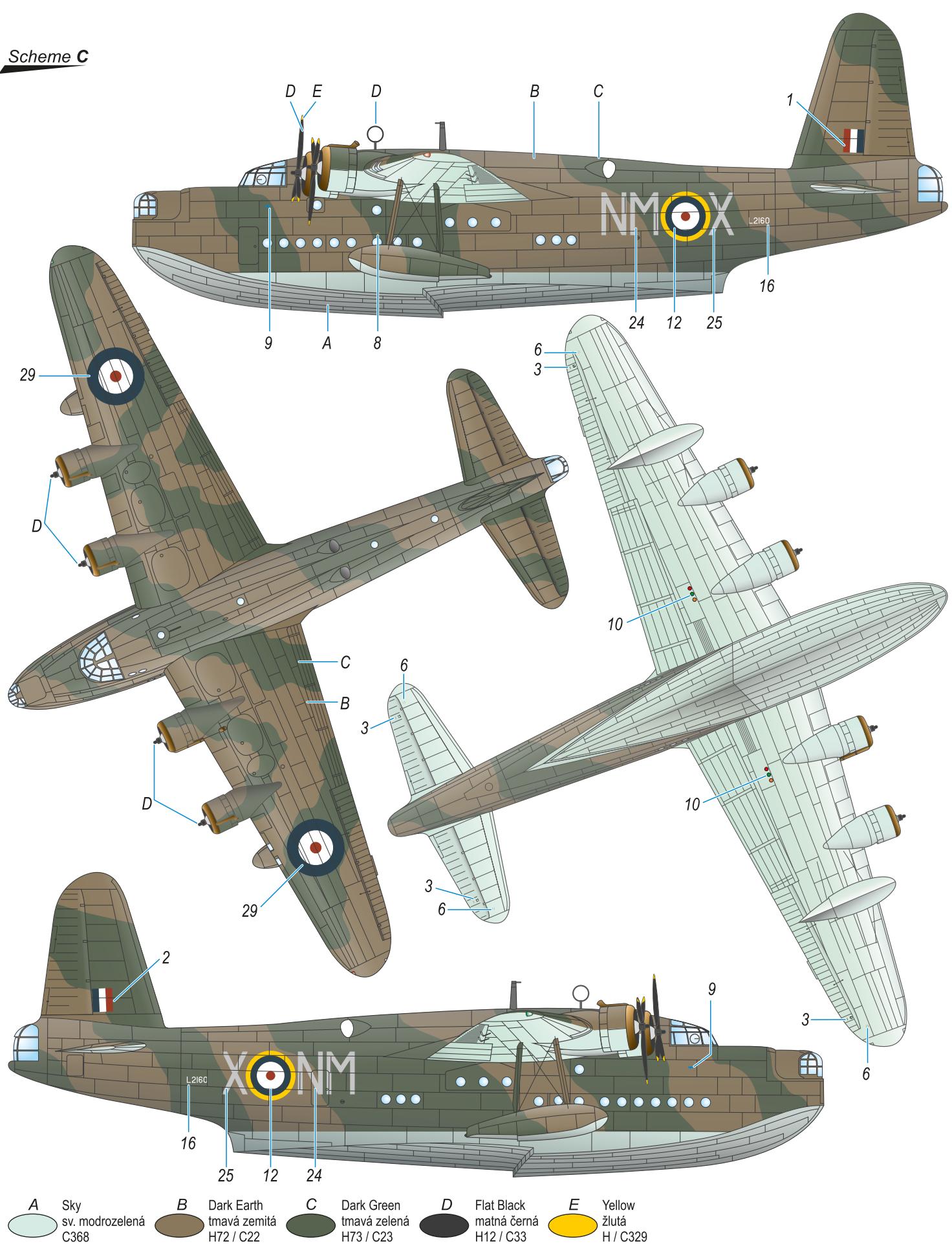
Scheme B



Short Sunderland Mk.II, L2160/NM-X, No.230 Sqn. RAF, detached at Skaramagas, Greece, April 1941. On the night of 16-17 April 1941, Sunderland L2160 took part in the evacuation of the Czechoslovak intelligence group 'Marie' from the port of Kotor, Yugoslavia.

Short Sunderland Mk.I, L2160/NM-X, No.230 Sqn. RAF, detašovaný na základně Scaramanga, Řecko, duben 1941. V noci z 16. na 17. 4. 1941 se stroj podílel na evakuaci československé zpravodajské skupiny "Marie" z jugoslávského Kotoru.

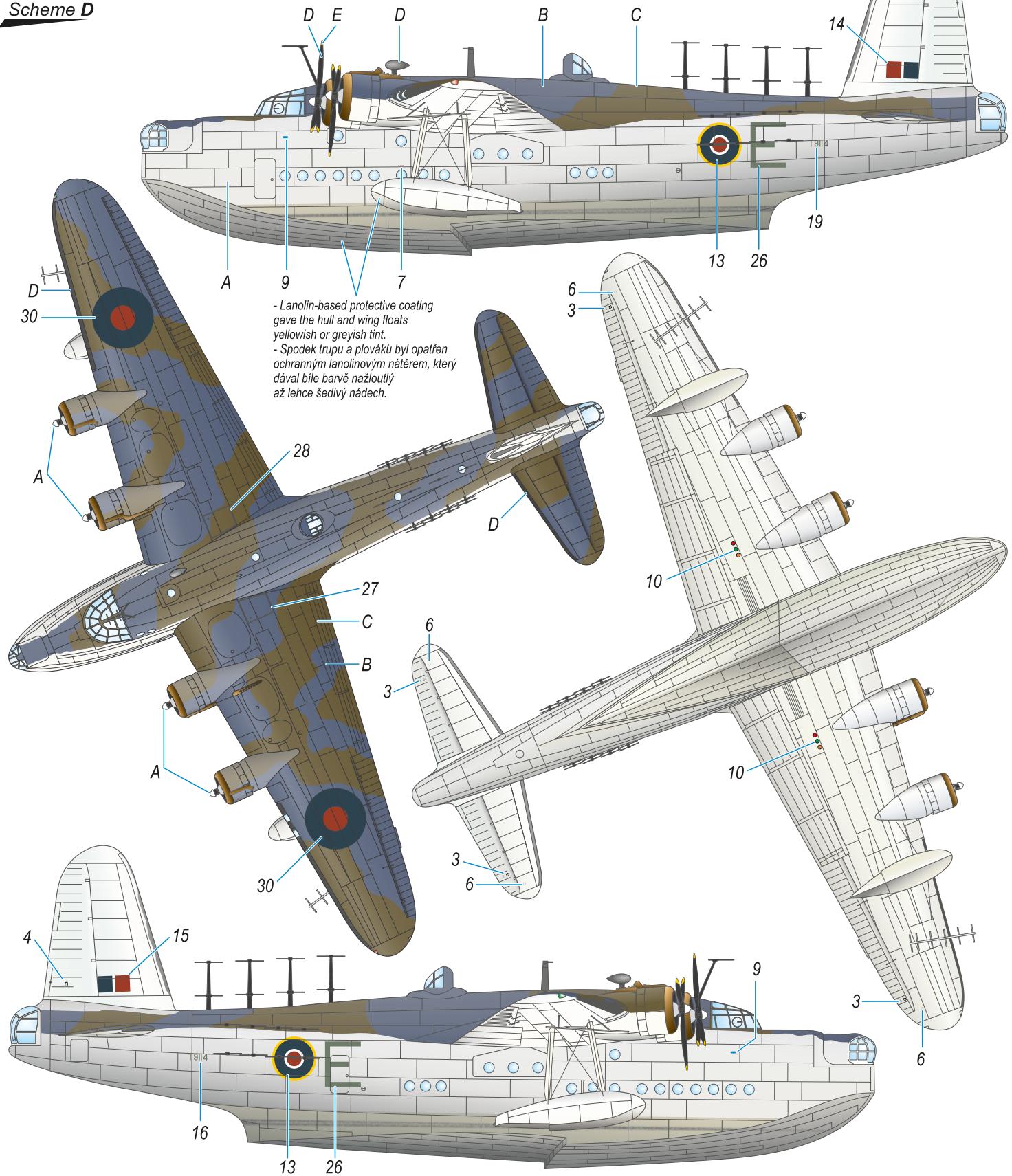
Scheme C



Short Sunderland Mk.II, T9114/E, No.461 (RAAF) Sqn. RAF, based at Pembroke, Wales, Spring 1943. On 29 May 1943, T9114 taking part in a wide scale rescue operation, sustained serious damage to its lower hull, where a huge wave made a hole seven by four feet during the attempt to take off. The rescued crews of a RAF Whitley and Sunderland JM675, which itself had crashed the day before while rescuing the Whittle crew, were eventually taken ashore by a Royal Navy destroyer. F/O Singleton, the captain of Sunderland T9114, decided not to push the luck any further and successfully landed his crippled machine on a grassy aerodrome at RAF Angley. The machine was a write-off, the crew escaped without any injury though.

Short Sunderland Mk.II, T9114/E, No.461 (RAAF) Sqn. RAF, základna Pembroke, Wales, jaro 1943. V průběhu rozsáhlé záchranné akce 29. května 1943 utrpěl vážné poškození trupu pod čarou ponoru při snaze přistát na otevřeném moři (otvor cca 2x1 metr). T9114 s osádkou F/O G. Singletona se snažil zachránit osádku sestřeleného bombardéru Whitley a osádku Sunderlandu JM675, který havaroval při předchozím pokusu nabrat trosečníky. Všechny trosečníky nakonec zachránila bojová loď Royal Navy. F/O G. Singleton neriskoval přistání na vodě a perfektně přistál na základně RAF Angle na trávě. Stroj byl odepsán, ale osádka vyvázla bez zranení.

Scheme D



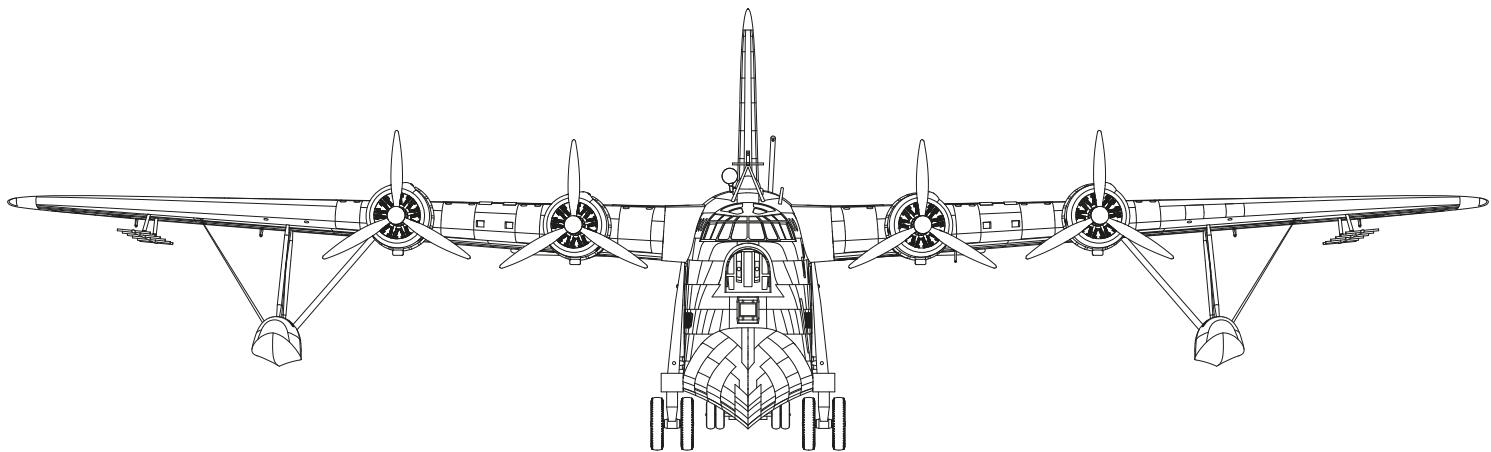
A Flat White
matná bílá
H11 / C62

B Extra Dark Sea Grey
velmi tmavá mořská šedá
H / C333

C Dark Slate Grey
tmavá břidlicová šedá
H78 / C38 50%
H32 / C40 50%

D Flat Black
matná černá
H12 / C33

E Yellow
žlutá
H / C329



Star Dust
weathering pigments

1/72
SH72453

DH.100 Vampire Mk.3 'European and American Operators'

1/72
SH72455

DH.100 Vampire FB.Mk.9 'Tropicalised Fighter-Bomber'

M72033 DH.100 Vampire Mk.3/5/9 and export variants MASK

special
MASK

1/72 SH72437



A.W. Meteor NF Mk.11 'RAF Squadrons'



1/72 SH72360

A.W. Meteor NF MK.12



A.W. Meteor NF Mk.14 'The Last of Night Fighters'

M72031 A.W. Meteor aNF Mk.11/12/13 MASK

M72027 A.W. Meteor NF Mk.14 MASK

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1/72 SH72343



Fairey Barracuda Mk.II 'Pacific Fleet'

1/72 SH72408



Fairey Barracuda Mk.III 'ASV Mk.XI Radar'

**1/72
SH72356**



Boulton Paul Balliol 'Civilian and Foreign Users'

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