MiG-21R

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1/72 Scale Plastic Model Kit



item No. 70147

ProfiPACK edition

MiG-21 was the worldwide most-produced supersonic fighter and served with more than fifty Air Forces over four continents. Its continuous development lasted for nearly three decades as design bureau of Mikoyan and Gurevitch tried follow the needs of many different users.

The MiG-21 was one of many aircraft of the Mikoyan-Gurevich design bureau which were integrated not only into the Soviet Air Force (VVS – Voyenno-vozhdushnye sily), but also into the Air Forces of all members of the Warsaw Pact and also of many allied client states. Its predecessors included such notable types as the MiG-15, MiG-17 and the supersonic MiG-19.
The roots of MiG-21 project reach back to the first half of the fifties. In 1954, the preliminary design study Ye-1 came to its end and was quickly replaced by the heavily reworked Ye-2 prototype. Both had a swept wing and the first MiG design to feature the delta wing was the Ye-4 prototype, which took to the air for the first time on June 16, 1955. It was also demonstrated a year later at the Moscow airfield Tushino.
The new aircraft with the MiG-21 designation was the first successful Soviet design integrating fighter and interceptor characteristics. It was also quite light Mach 2 aircraft, although the long-lasting development was adding weight gradually. The design featured sleek fuselage with the front air intake and shock cone. This feature later limited future development due to the very small space available for the radar.

Cold War warrior

The first of the new line to enter production was the MiG-21F, which together with the MiG-21P and MiG-21F-13 represented the first generation of this line. These versions were in production through the end of the fifties and at the beginning of the sixties. Subsequent versions included the PF, FL, PFM and R with production of these peaking at the end of the sixties. The production of third generation started in 1968 and included the most advanced versions of MiG-21 like the M, SM, MF, SMT or bis among others. Simultaneously, two-seat training versions were also produced and designated as MiG-21U, UM and US.
Production of the MiG-21 ended in 1985. The new aircraft came off Soviet production lines in Moscow, Gorky and Tbilisi, the MiG-21F-13 was also built under the license in Czechoslovakia and the MiG-21FL, M and bis were built in India by Hindustan Aeronautics Ltd. The Soviet Union produced 10,645 examples of all versions, 194 were built in Czechoslovakia and 657 in India. That counts 11,496 aircraft produced. NATO assigned it the reporting name "Fishbed", while the Soviet pilots called it "Balalaika" due to the shape resembling it with the popular Russian musical instrument.

Aces from Asia, Middle East or Africa

Outside of the Soviet Union, the type flew with a long list of nations on four continents (Europe, Asia, Africa and South America) and participated in many conflicts and wars. The most remarkable combat use includes the Vietnam war, the Indo-Pakistan wars, the Cuban participation in Angola and in the Arab world's attempts to eliminate Israel. It is no wonder there were many pilots achieving their ace status flying one or more variants of MiG-21.

Thanks to the high volume of use and intensive combat actions, the Vietnamese pilots are topping the list of aces of MiG-21 with Nguyen Van Coc with 9 kills as the most successful among them followed by three eight-victory aces Mai Van Cuong, Nguyen Hong Nhi and Pham Thanh Ngan. From the other nations the Syrian pilots Bassam Hamshun and Majid Zugbi both achieved seven kills flying MiG-21MF, while Adeeb Al-Jarf had the same score with MiG-21FL. Egyptian pilots Ali Vajai, Sami Marei and Sami Marei scored five times.
In the interceptor role the MiG-21 served with the Soviet Union and other nations of the Warsaw Pact into the eighties when it began to be replaced by the MiG-23 in seventies and MiG-29 in eighties.

This kit: MiG-21R

The MiG-21R was a dual-purpose tactical reconnaissance and interceptor aircraft developed from the PFM version. It was designed for photo-reconnaissance tasks from medium and high altitudes and was also capable to detect enemy radar positions in all weather conditions. The MiG-21R was to replace already obsolete Il-28R, Yak-27R and MiG-19R reconnaissance aircraft. Therefore, in October 1963, OKB MiG was tasked to develop a design for a reconnaissance modification of the MiG-21PFS interceptor. The main change of the new version was the provision and necessary equipment to carry newly developed reconnaissance containers. Furthermore, the forward fuselage tank No. 1 was removed and a significantly enlarged tank (510 litres instead of 170 litres) was installed in the larger and bulkier fuselage ridge. This change increased the total amount of fuel carried in the internal tanks to 2,800 litres.
The wing was strengthened, and an additional pair of underwing racks were fitted. Additional PTB-490 tanks or selected armament could be carried on the outer racks. In terms of equipment, the original single-channel autopilot was replaced by a three-channel unit (AP-155) and the SPO-3R Sirena-3 warning system was installed. The cockpit cover was fitted with a TS-27AMS periscope for better rear view (all aircraft manufactured after 1969).
Three containers with different reconnaissance equipment were prepared for the new MiG-21R. Type D container was equipped with cameras for daytime photo reconnaissance, container N was capable of night photo reconnaissance (in combination with a flare dispenser) and container R was designed for radio-electronic reconnaissance. The MiG-21R thus became the first Soviet aircraft capable of performing both types of tasks: photographic reconnaissance (FOTINT) and electronic reconnaissance (ELINT). With the reconnaissance container removed, the MiG-21R was a full-blown frontline fighter or fighter-bomber.
The No. 21 plant in Gorky was tasked with production of MiG-21R and 448 of these aircraft were produced there between 1965 and 1971. The last series were produced as the MiG-21RF, powered by the more powerful R-13-300 engine from the MiG-21SM/MF version.

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ATTENTION ✶ UPOZORNĚNÍ ✶ ACHTUNG ✶ ATTENTION ✶ 注意

Carefully read instruction sheet before assembling. When you use glue or paint, do not use near open flame and use in well ventilated room. Keep out of reach of small children. Children must not be allowed to suck any part, or pull vinyl bag over the head.

Před započetím stavby si pečlivě prostudujte stavební návod. Při používání barev a lepidel pracujte v dobre větrané místnosti. Lepidla ani barvy nepoužívejte v blízkosti otevřeného ohně. Model není určen malým dětem, mohlo by dojít k požití drobných dílů.

INSTRUCTION SIGNS ✶ INSTR. SYMBOLY ✶ INSTRUKTION SINNBILDEN ✶ SYMBOLES ✶ 記号の説明

OPTIONAL
VOLBA

BEND
OHNOUT

SAND
BROUSIT

OPEN HOLE
VYVRTAT OTVOR

SYMETRICAL ASSEMBLY
SYMETRICKÁ MONTÁŽ

REMOVE
ODŘÍZNOUT

REVERSE SIDE
OTOČIT

APPLY EDUARD MASK
AND PAINT
POUŽÍT EDUARD MASK
NABARVIT

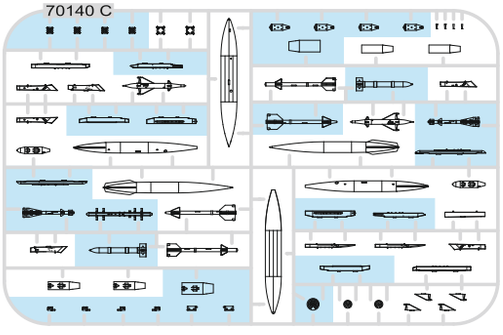
PLEASE, CHECK THE LATEST VERSION OF THE INSTRUCTIONS ON www.eduard.com

PARTS ✶ DÍLY ✶ TEILE ✶ PIÈCES ✶ 部品

PLASTIC PARTS

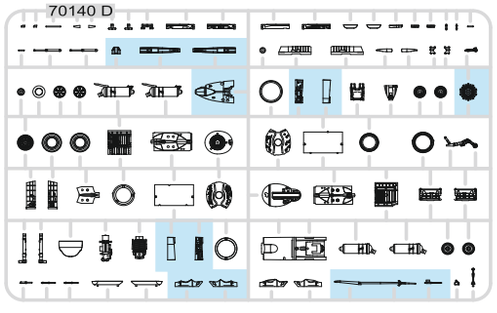
C>

70140 C



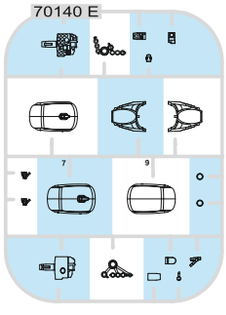
D>

70140 D

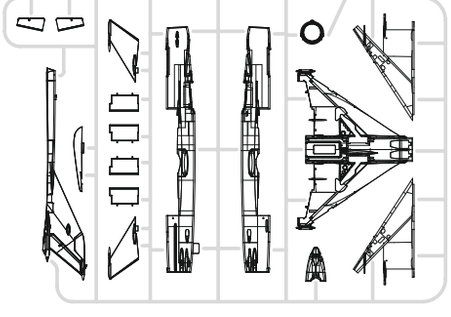


E>

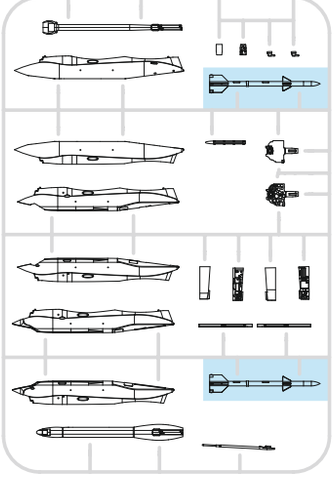
70140 E



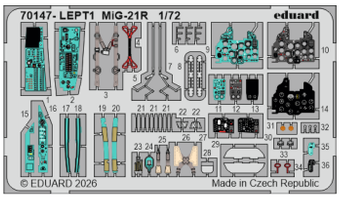
M>



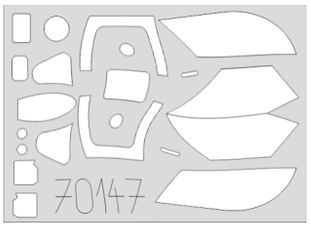
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PE - PHOTO ETCHED DETAIL PARTS



eduard MASK

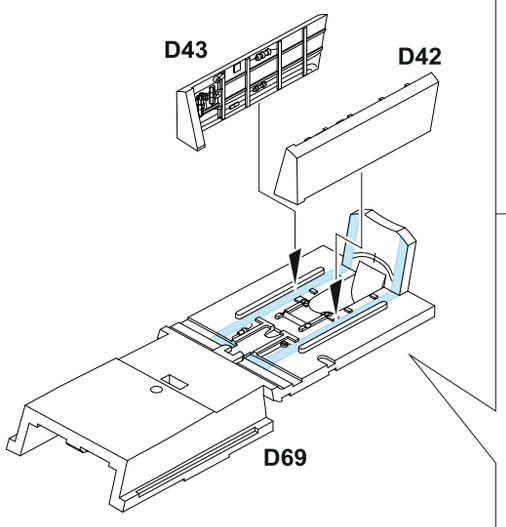


-Parts not for use. -Teile werden nicht verwendet. -Pièces à ne pas utiliser. -Tyto díly nepoužívejte při stavbě. - 使用しない部品

COLOURS ✶ BARVY ✶ FARBEN ✶ PEINTURE ✶ 色

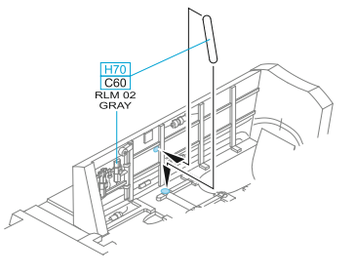
GSi Creos (GUNZE)		
AQUEOUS	Mr.COLOR	
H1	C1	WHITE
H2	C2	BLACK
H3	C3	RED
H4	C4	YELLOW
H5	C5	BLUE
H11	C62	FLAT WHITE
H12	C33	FLAT BLACK
H15	C65	BRIGHT BLUE
H26	C66	BRIGHT GREEN
H27	C44	TAN
H37	C43	WOOD BROWN
H47	C41	RED BROWN
H51	C11	LIGHT GULL GRAY
H53	C13	NEUTRAL GRAY
H65	C18	BLACK GREEN
H67	C115	LIGHT BLUE
H70	C60	GRAY
H76	C61	BURNT IRON

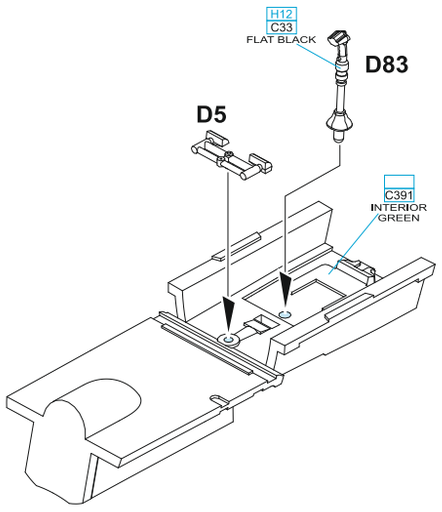
GSi Creos (GUNZE)		
AQUEOUS	Mr.COLOR	
H77	C137	TIRE BLACK
H81	C55	KHAKI
H84	C42	MAHOGANY
H90	C47	CLEAR RED
H94	C138	CLEAR GREEN
H302	C302	GREEN
H303	C303	GREEN
H314	C314	BLUE
H323	C322	LIGHT BLUE
H324	C324	LIGHT GRAY
H332	C332	LIGHT AIRCRAFT GRAY
H422	C122	LIGHT GREEN
	C391	INTERIOR GREEN
Mr.COLOR SUPER METALLIC		
SM201		SUPER FINE SILVER
SM204		SUPER STAINLESS
SM206		SUPER CHROME SILVER
SM212		ALUMINIUM



D14 port side

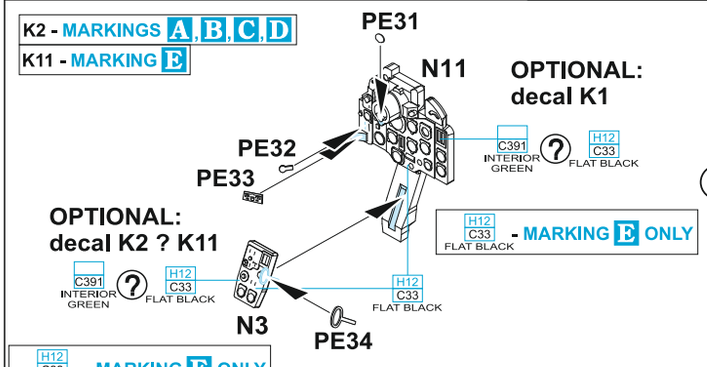
D15 starboard





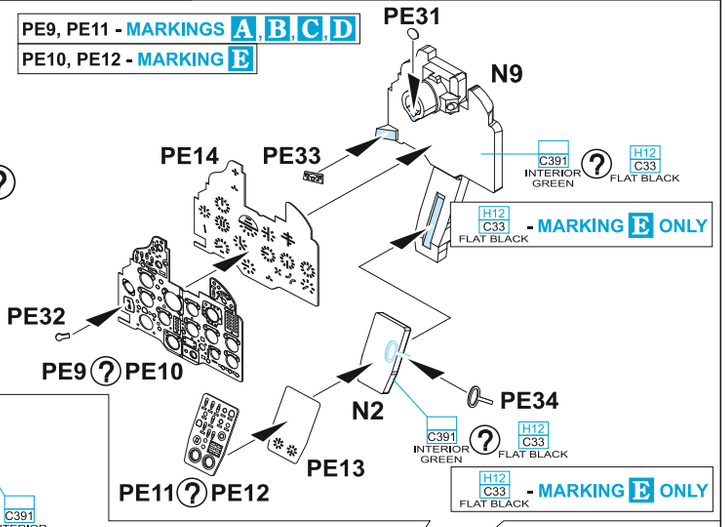
K2 - MARKINGS A, B, C, D

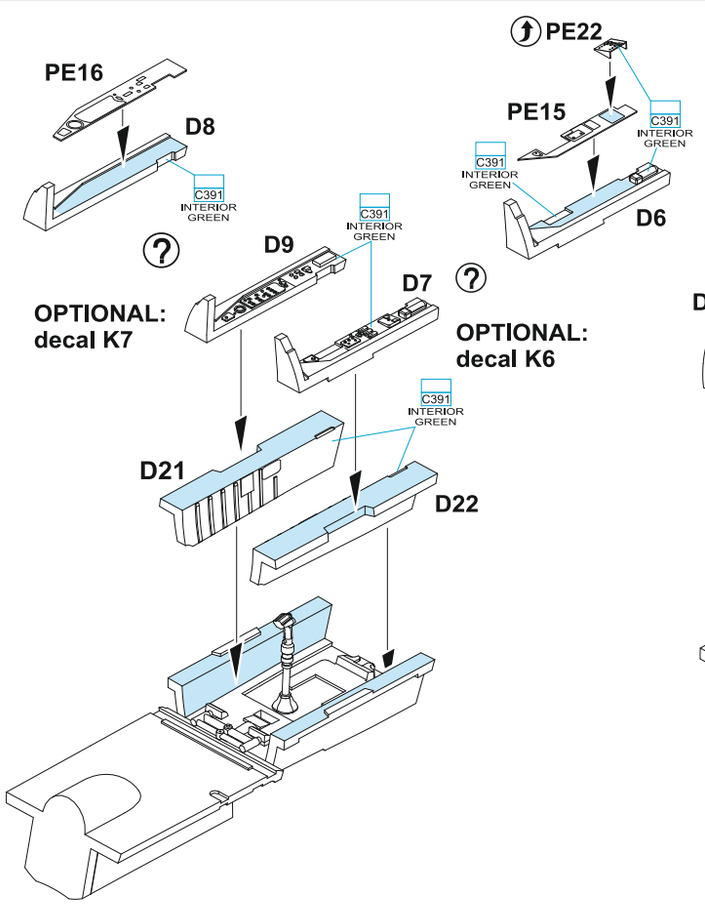
K11 - MARKING E

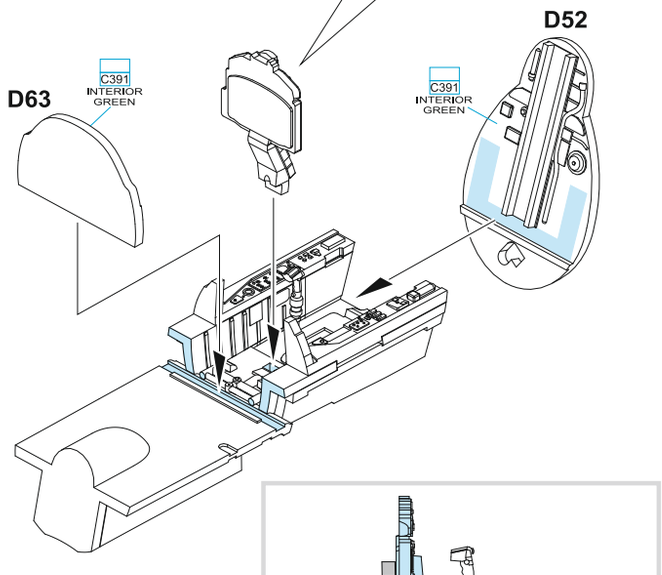


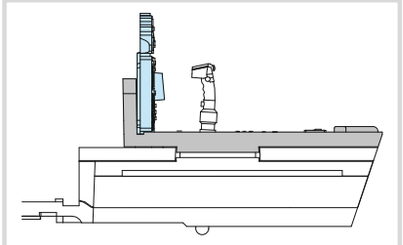
PE9, PE11 - MARKINGS A, B, C, D

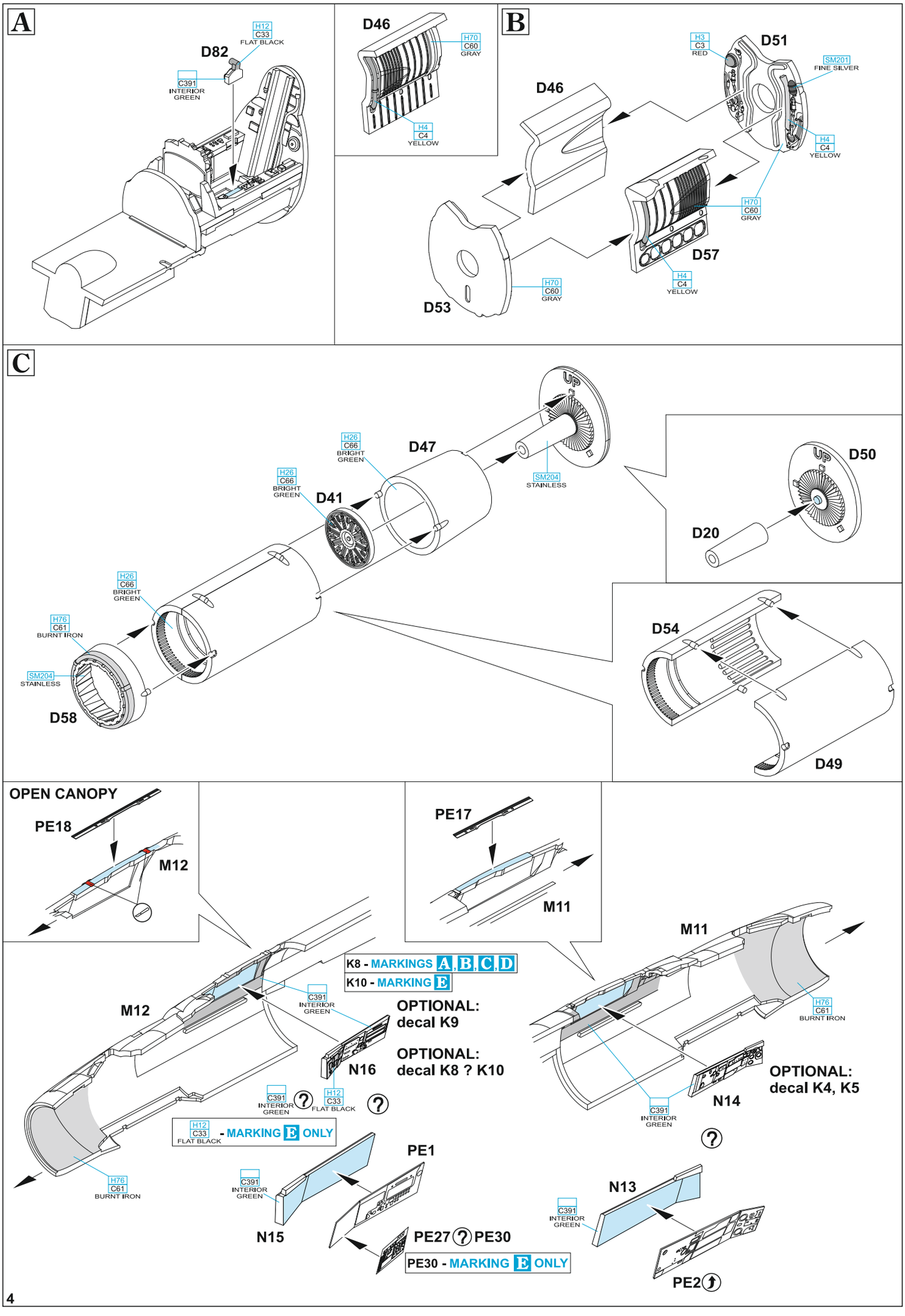
PE10, PE12 - MARKING E

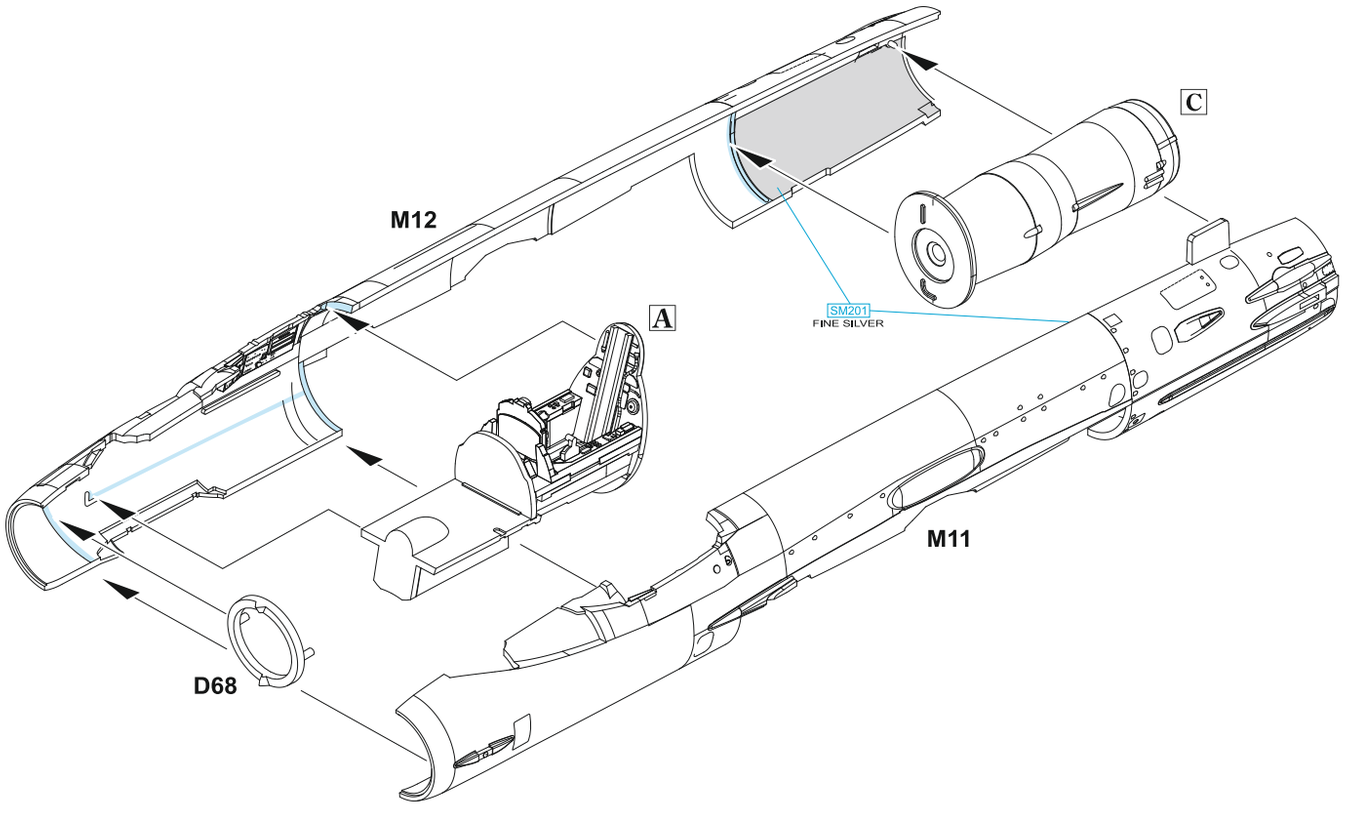


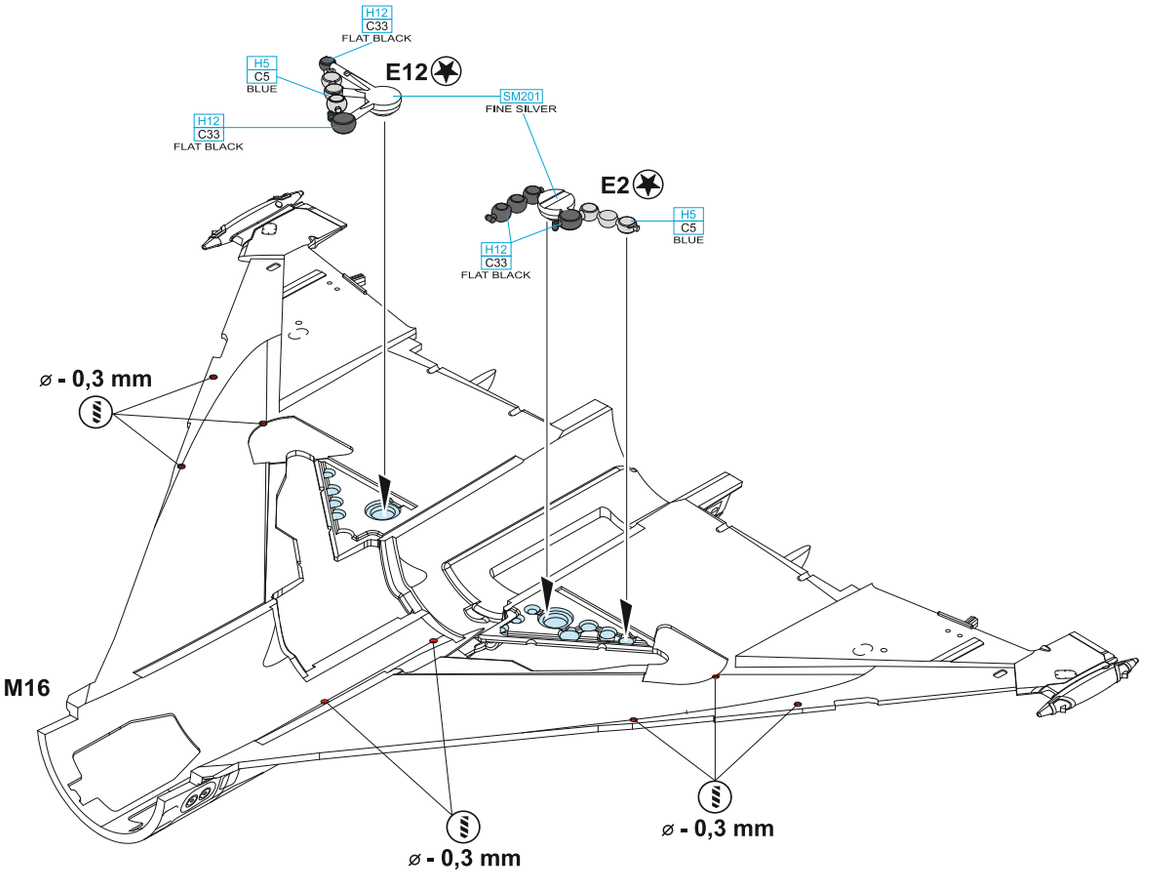


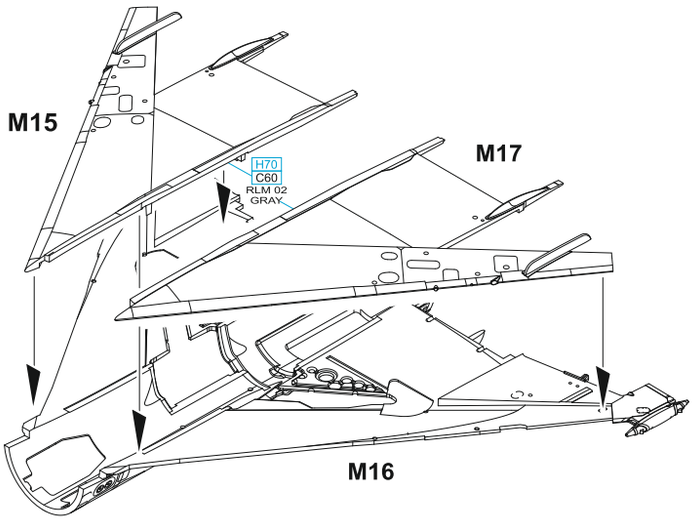


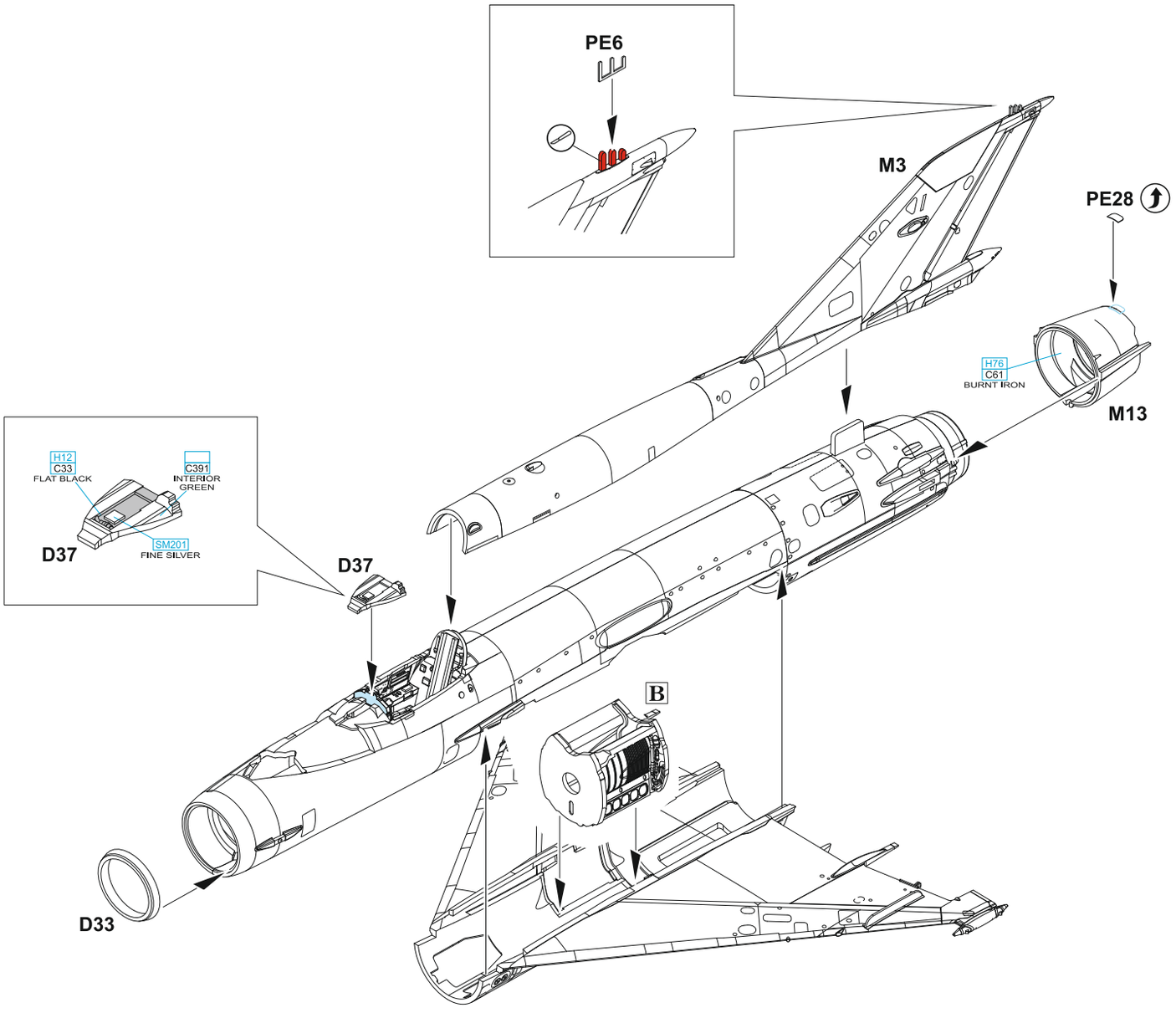


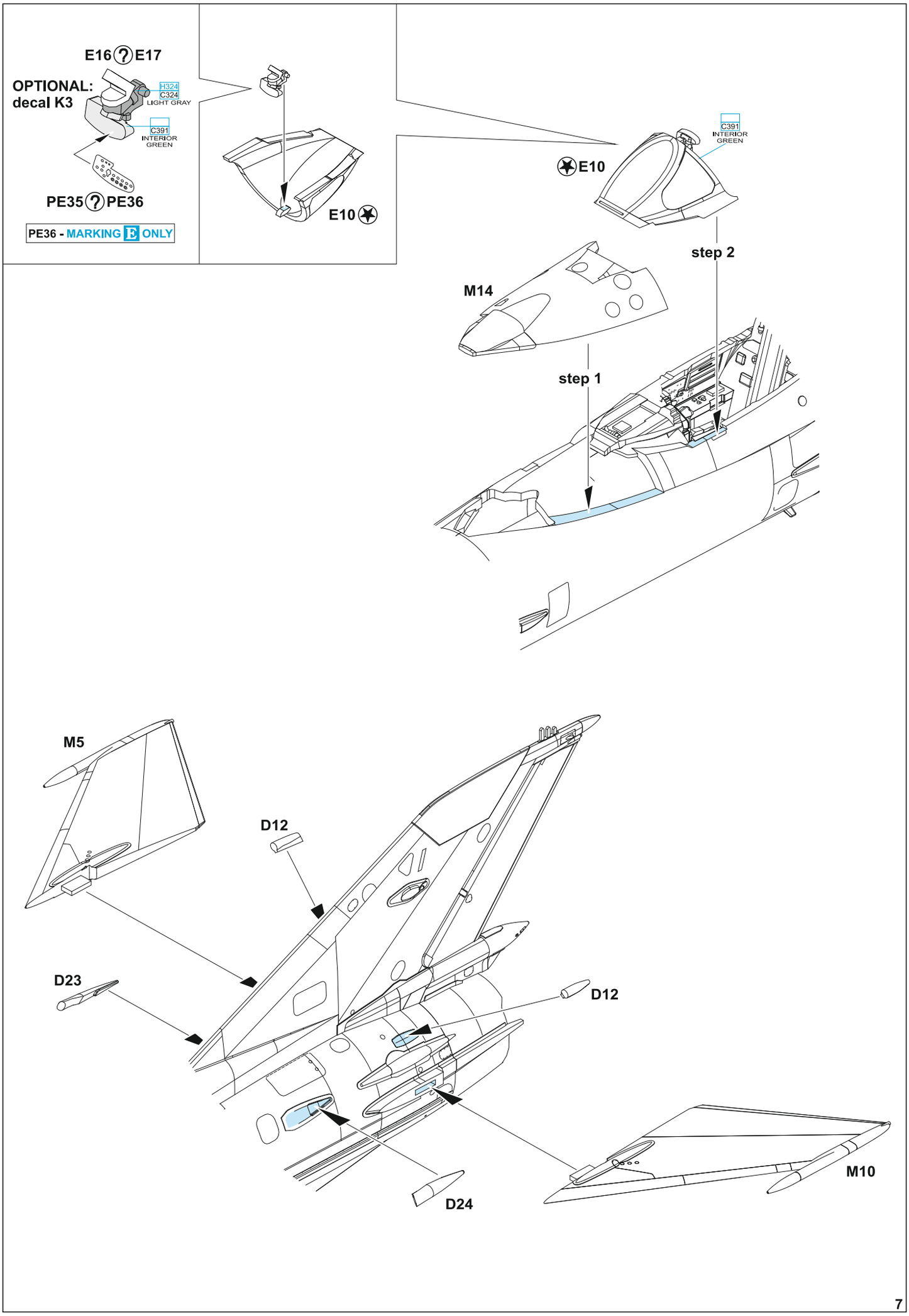

A
D82
H12
C33
FLAT BLACK
C391
INTERIOR
GREEN
D46
H70
C60
GRAY
H4
C4
YELLOW
B
D51
H3
C3
RED
SM201
FINE SILVER
D46
H4
C4
YELLOW
H70
C60
GRAY
D57
H4
C4
YELLOW
H70
C60
GRAY
D53
C
D47
H26
C66
BRIGHT
GREEN
SM204
STAINLESS
D41
H26
C66
BRIGHT
GREEN
H26
C66
BRIGHT
GREEN
H76
C61
BURNT IRON
SM204
STAINLESS
D58
D50
D20
D54
D49
OPEN CANOPY
PE18
M12
PE17
M11
K8 - MARKINGS A, B, C, D
K10 - MARKING E
M12
C391
INTERIOR
GREEN
OPTIONAL:
decal K9
N16
OPTIONAL:
decal K8 ? K10
C391
INTERIOR
GREEN
?
H12
C33
FLAT BLACK
?
H12
C33
FLAT BLACK
- MARKING E ONLY
H76
C61
BURNT IRON
PE1
C391
INTERIOR
GREEN
N15
PE27 ? PE30
PE30 - MARKING E ONLY
M11
H76
C61
BURNT IRON
OPTIONAL:
decal K4, K5
N14
C391
INTERIOR
GREEN
?
N13
C391
INTERIOR
GREEN
PE2


M12
C
A
SM201
FINE SILVER
M11
D68

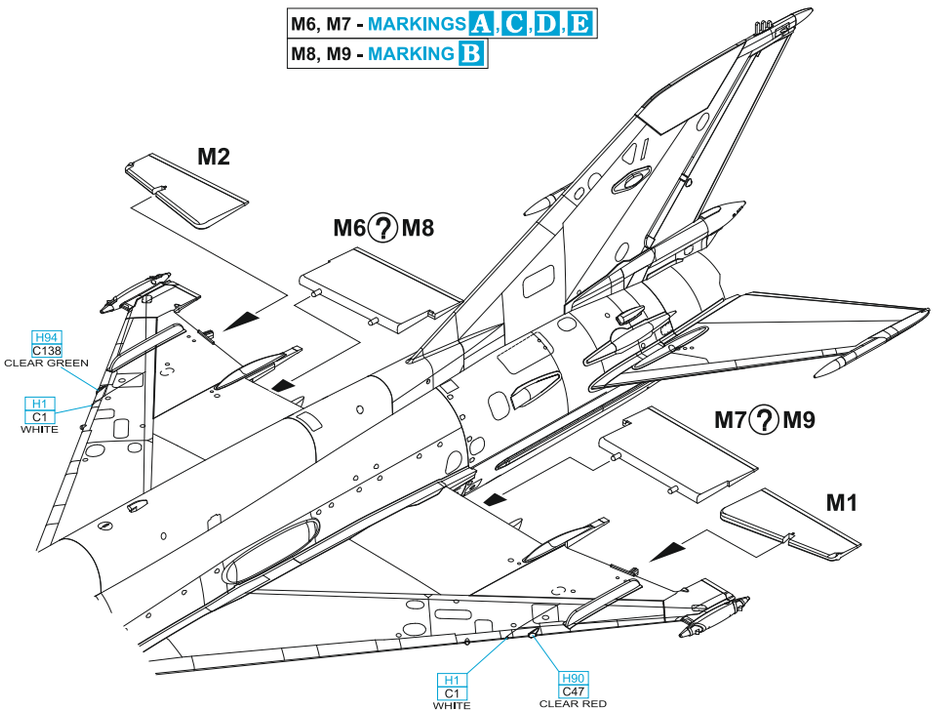

H12
C33
FLAT BLACK
H5
C5
BLUE
E12
SM201
FINE SILVER
H12
C33
FLAT BLACK
E2
H5
C5
BLUE
H12
C33
FLAT BLACK
⌀ - 0,3 mm
M16
⌀ - 0,3 mm
⌀ - 0,3 mm

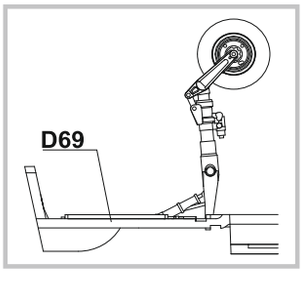

M15
M17
H70
C60
RLM 02
GRAY
M16


PE6
M3
PE28
H76
C61
BURNT IRON
M13
H12
C33
FLAT BLACK
C391
INTERIOR
GREEN
SM201
FINE SILVER
D37
D37
B
D33

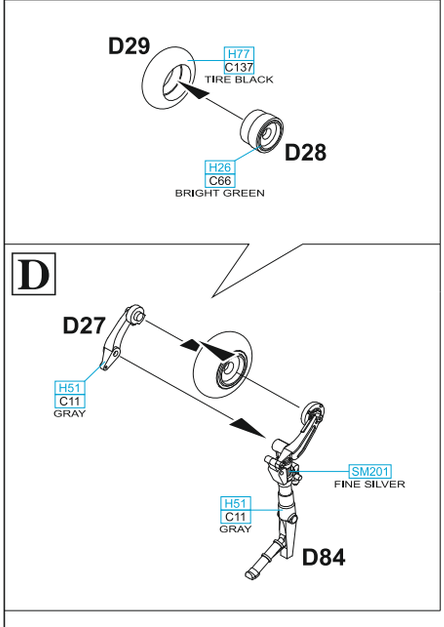

E16 ? E17
OPTIONAL:
decal K3
H324
C324
LIGHT GRAY
C391
INTERIOR
GREEN
PE35 ? PE36
PE36 - MARKING E ONLY
E10
C391
INTERIOR
GREEN
E10
step 2
M14
step 1
M5
D12
D23
D12
D24
M10

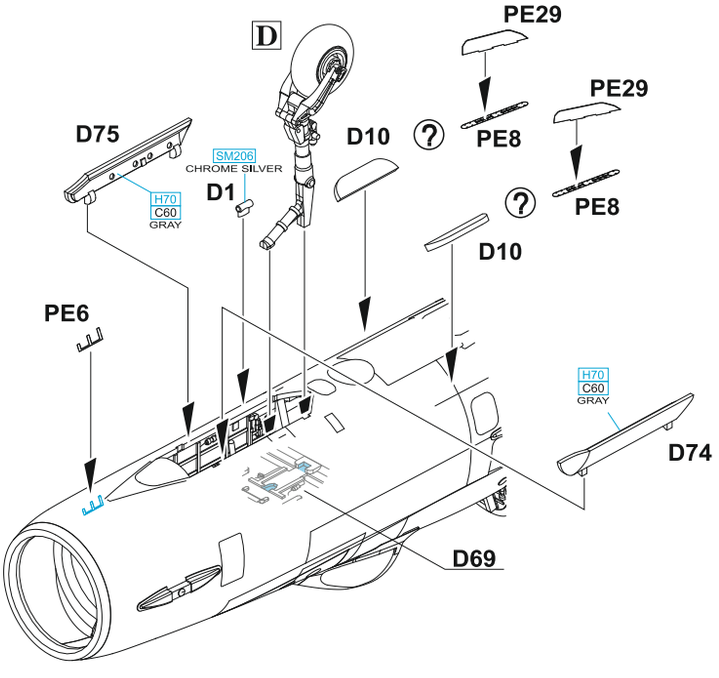
M6, M7 - MARKINGS A, C, D, E
M8, M9 - MARKING B

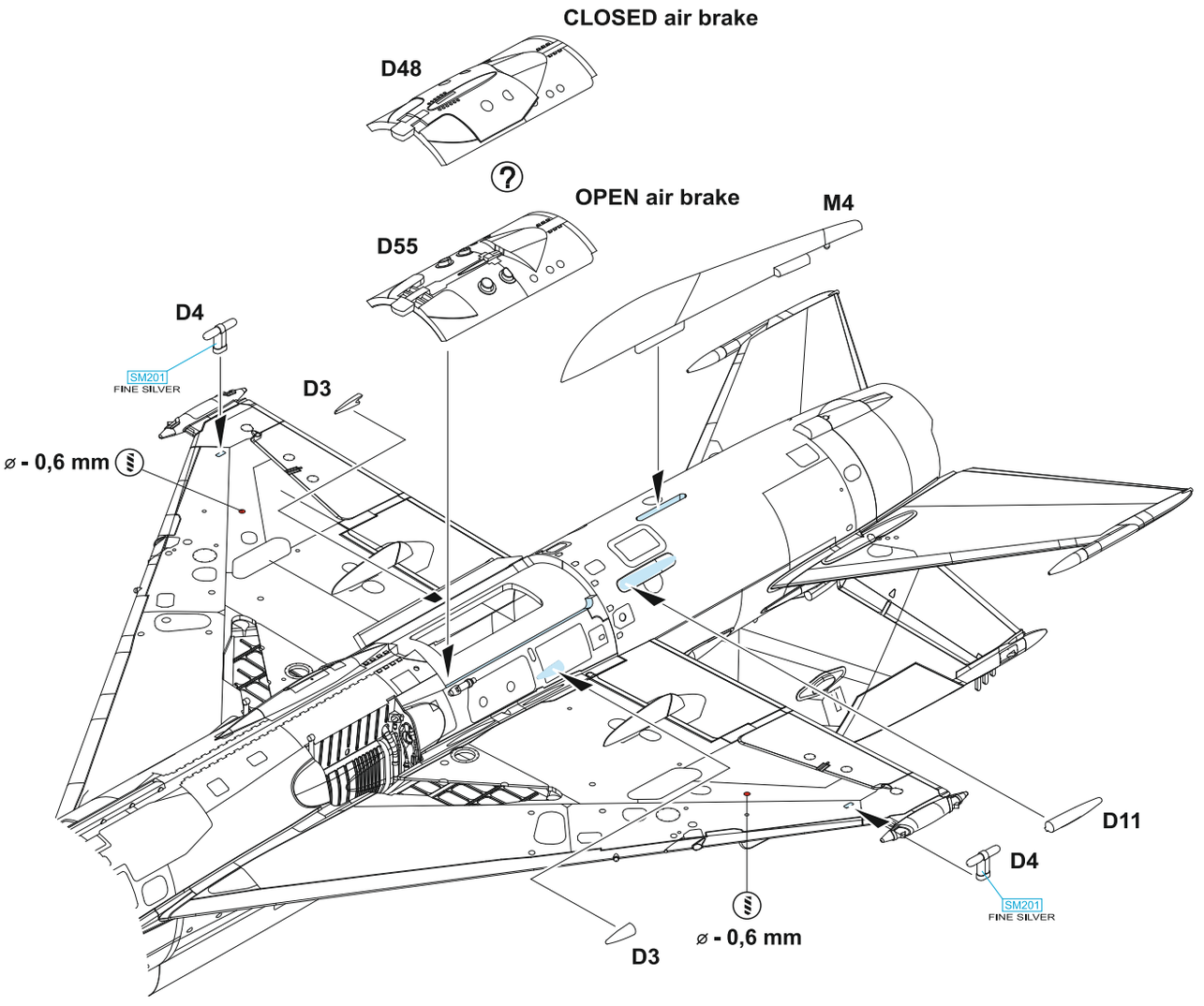


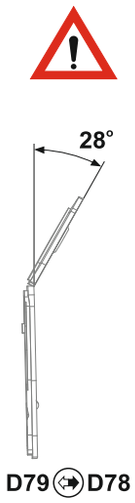


D10,PE8,PE29 - MARKINGS C, E ONLY

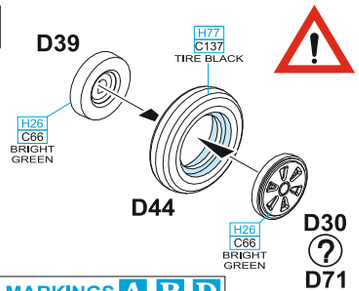






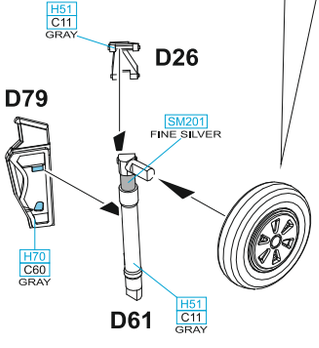


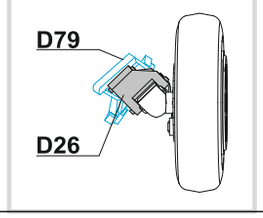
E



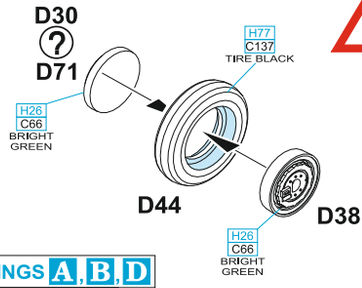
D30 - MARKINGS A, B, D

D71 - MARKINGS C, E



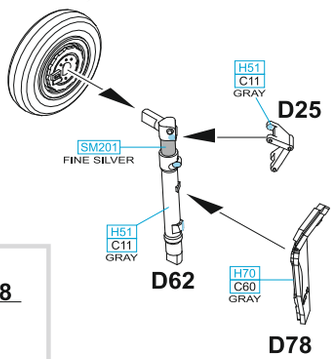


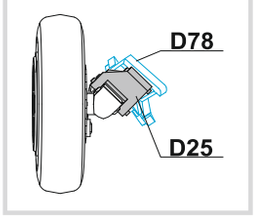
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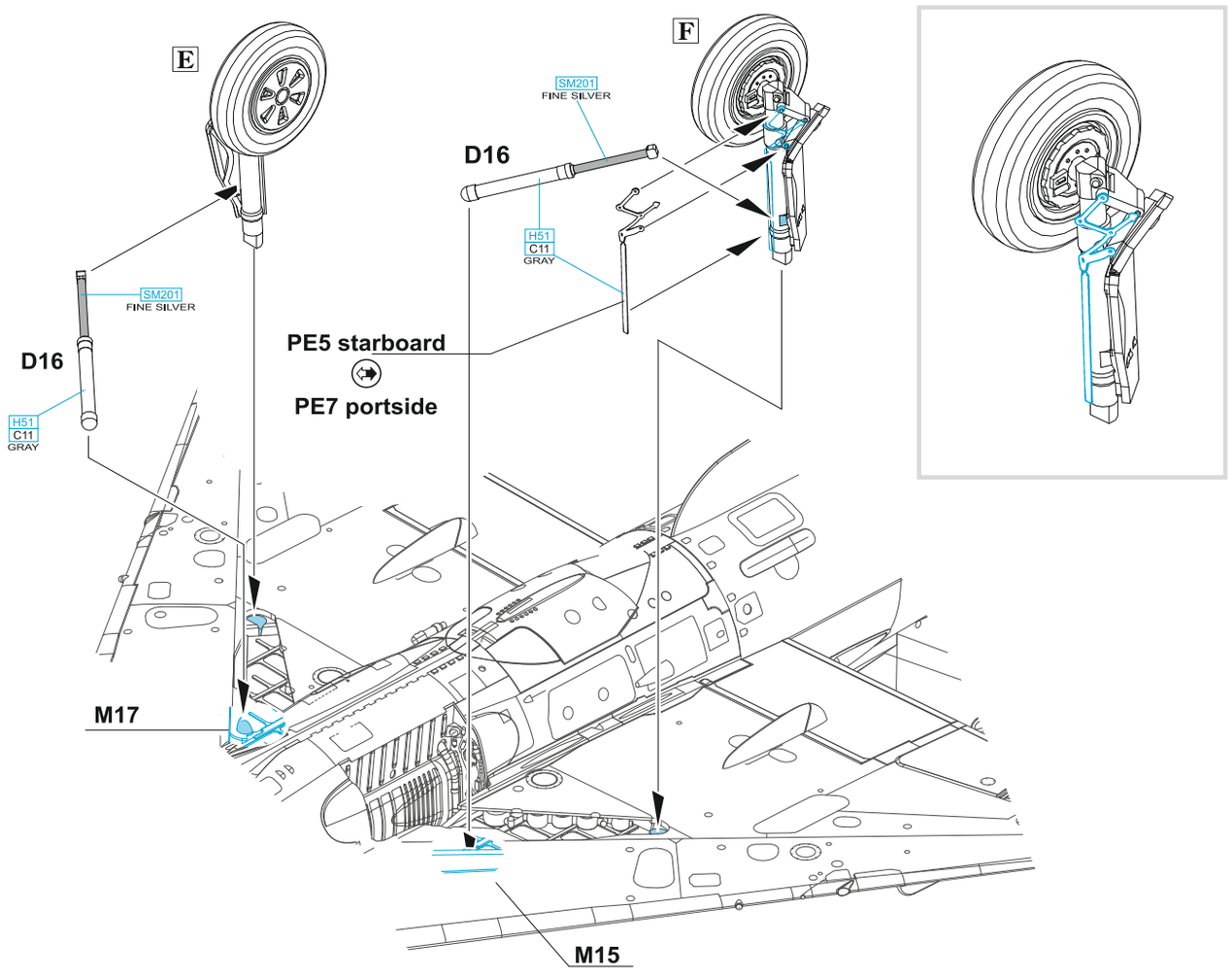


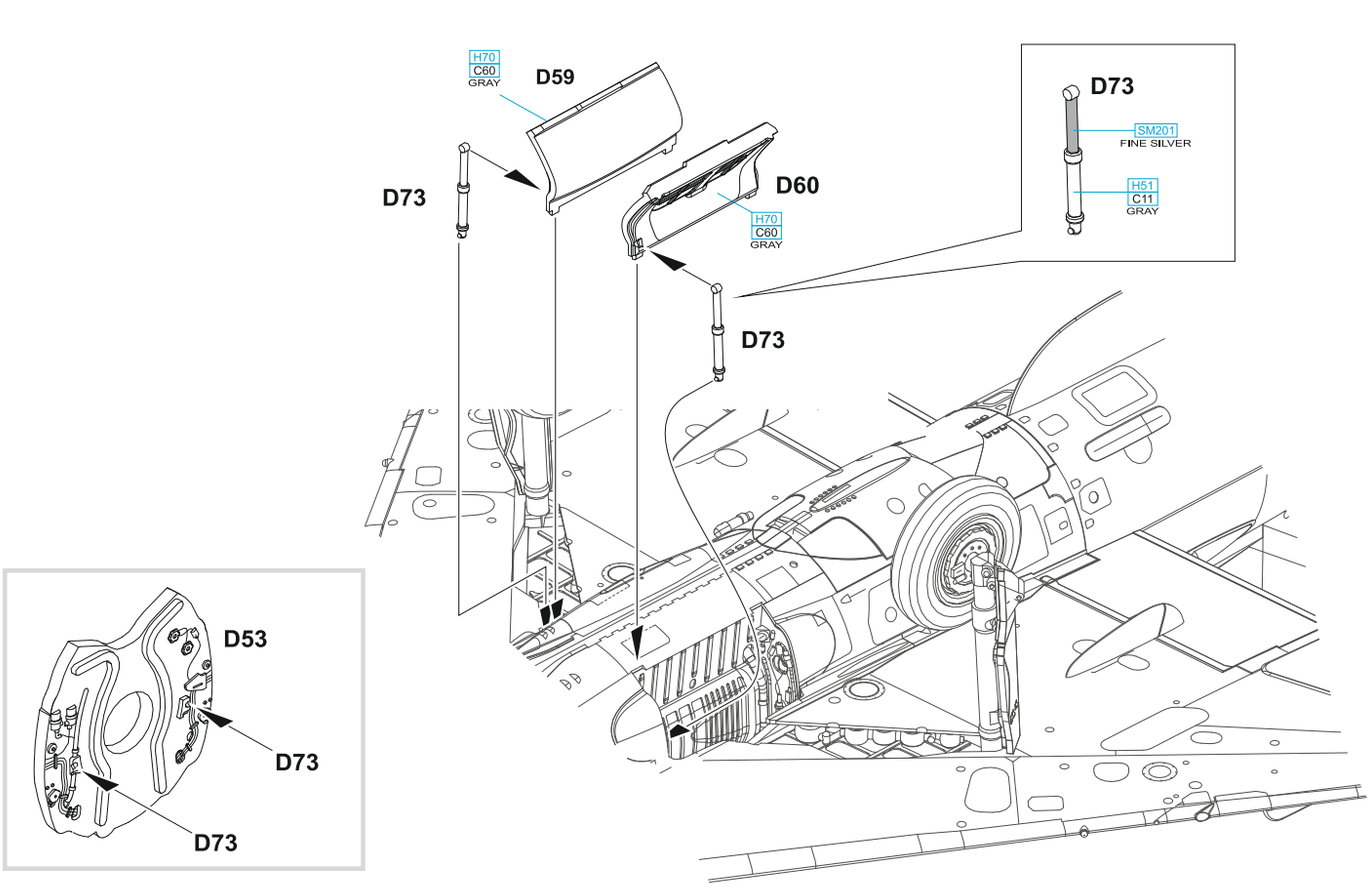
D30 - MARKINGS A, B, D

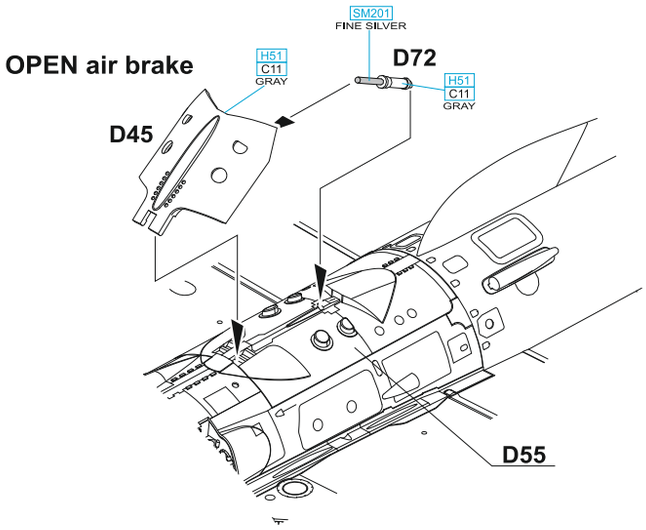
D71 - MARKINGS C, E

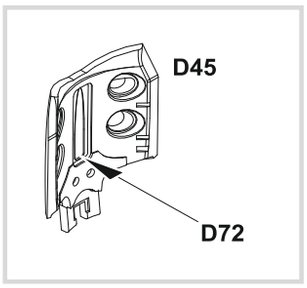


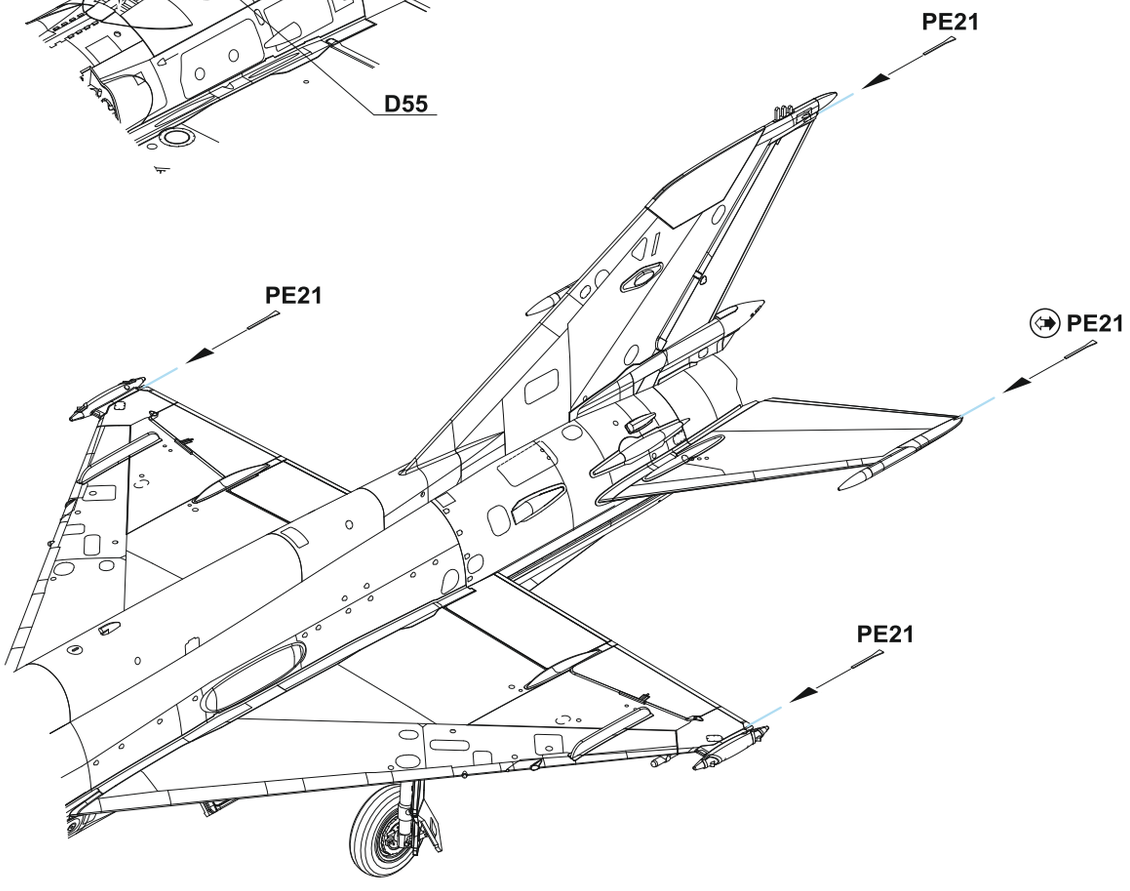



E
F
SM201
FINE SILVER
D16
H51
C11
GRAY
PE5 starboard
PE7 portside
M17
M15

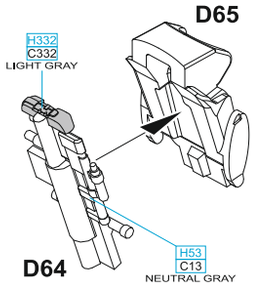

H70
C60
GRAY
D59
D73
D60
SM201
FINE SILVER
H51
C11
GRAY
D53
D73
D73

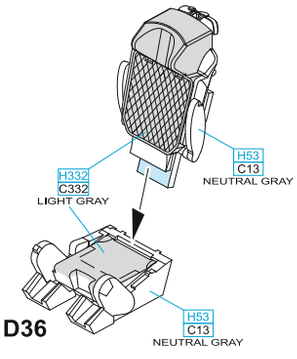

OPEN air brake
SM201
FINE SILVER
H51
C11
GRAY
D72
H51
C11
GRAY
D45
D55

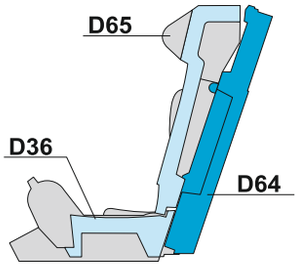

D45
D72

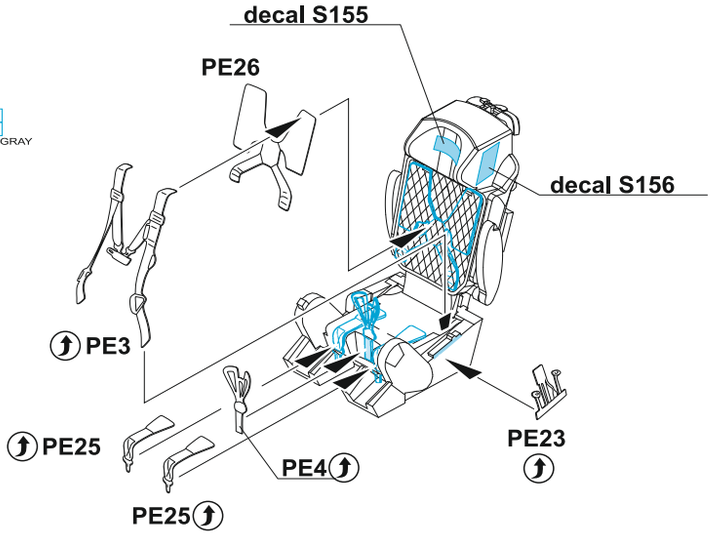

PE21
PE21
PE21
PE21

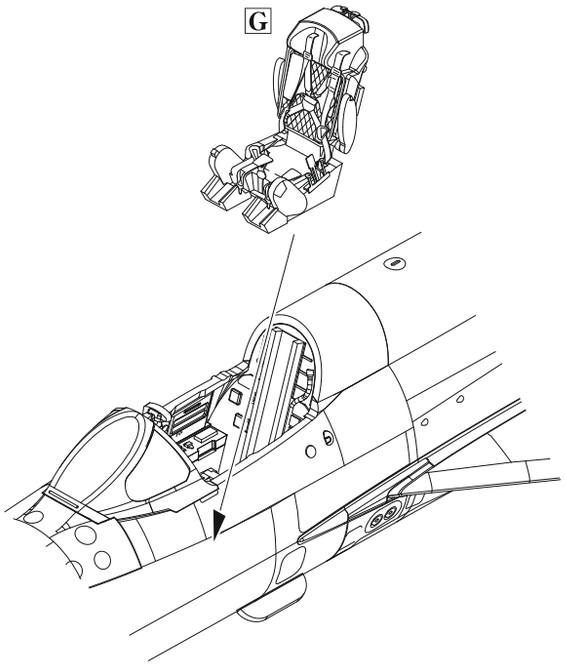
G

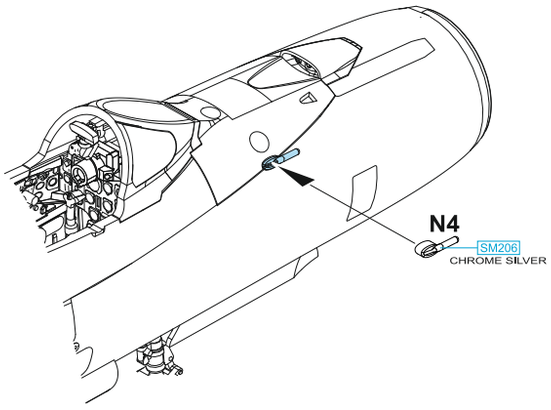

D65
H332
C332
LIGHT GRAY
D64
H53
C13
NEUTRAL GRAY

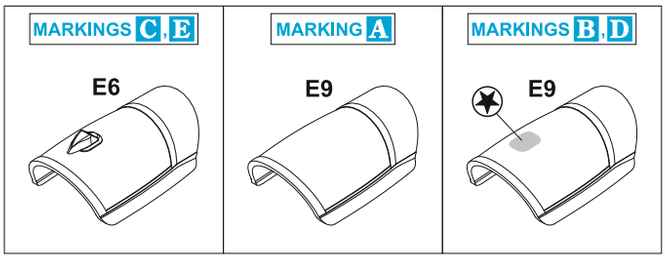

H53
C13
NEUTRAL GRAY
H332
C332
LIGHT GRAY
D36
H53
C13
NEUTRAL GRAY

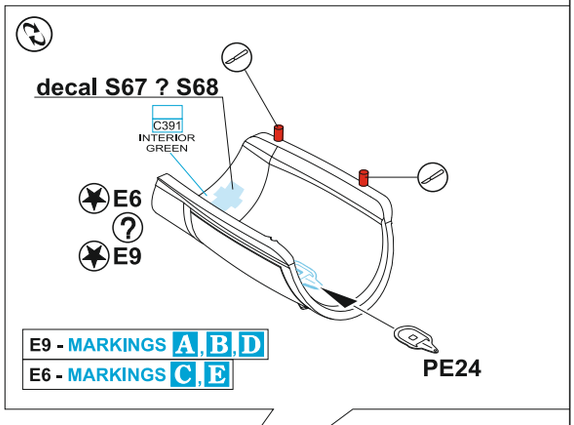

D65
D36
D64

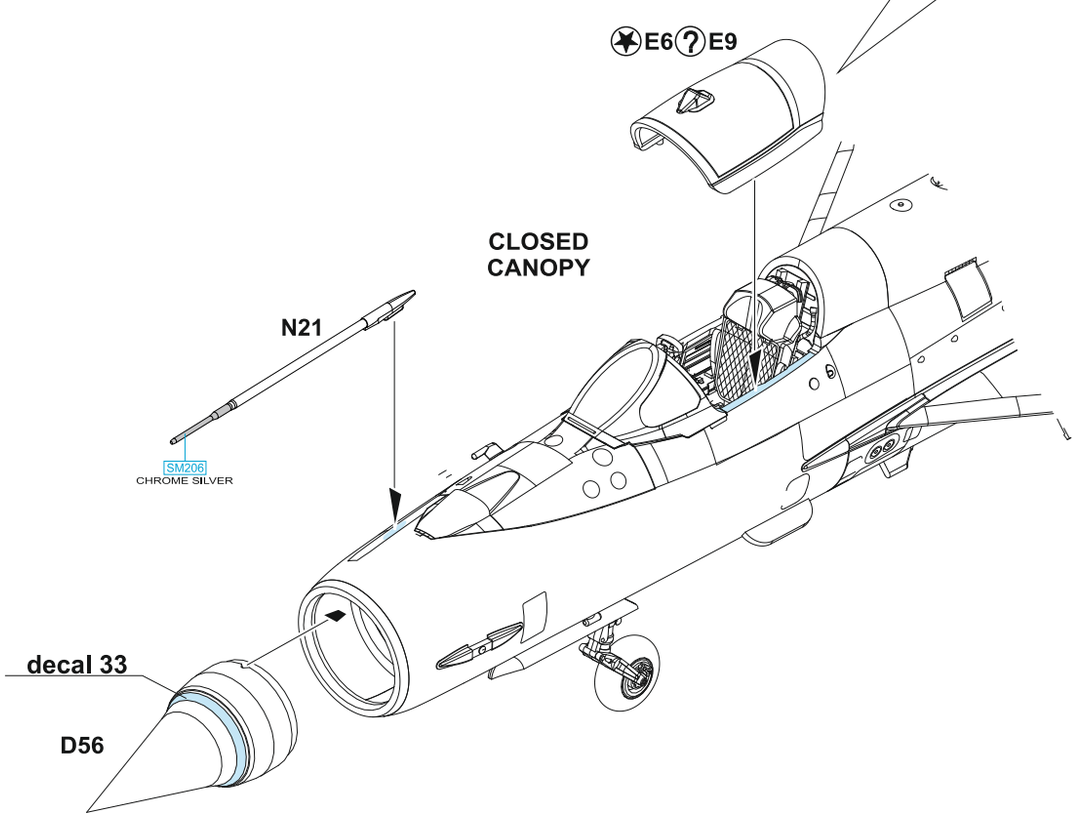

decal S155
PE26
decal S156
PE3
PE25
PE4
PE23
PE25

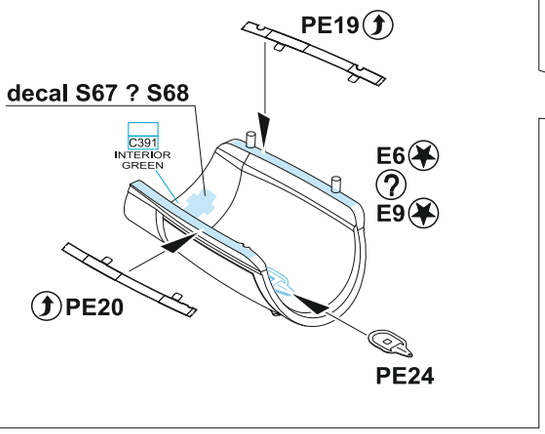

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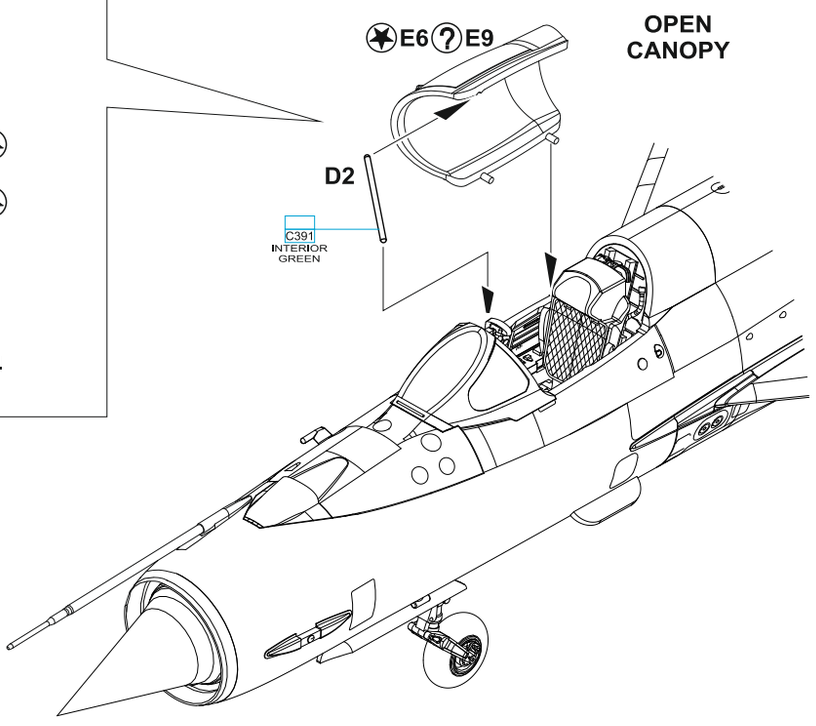

N4
SM206
CHROME SILVER


MARKINGS C,E
E6
MARKING A
E9
MARKINGS B,D
E9

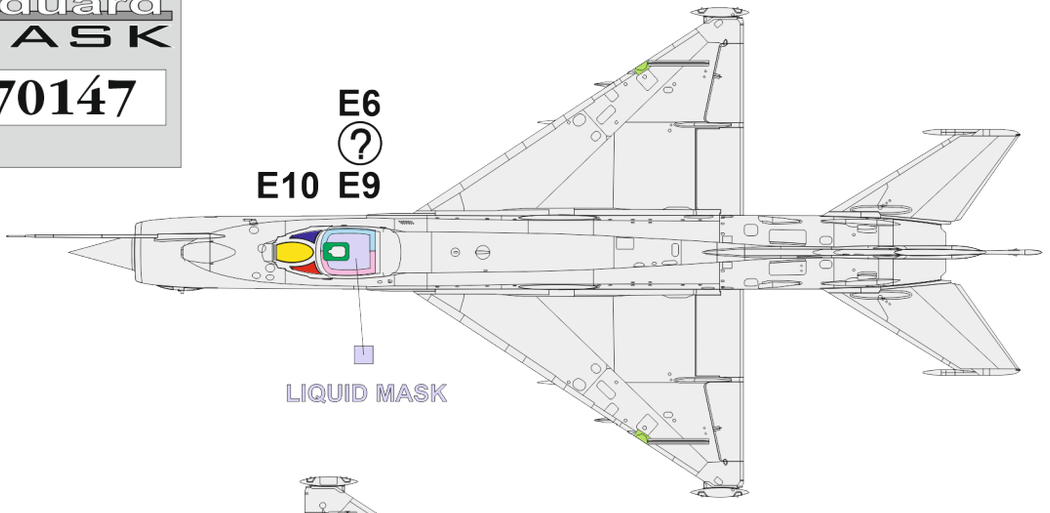

decal S67 ? S68
C391
INTERIOR
GREEN
E6
E9
E9 - MARKINGS A,B,D
E6 - MARKINGS C,E
PE24

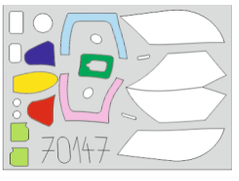

E6 E9
CLOSED
CANOPY
N21
SM206
CHROME SILVER
decal 33
D56

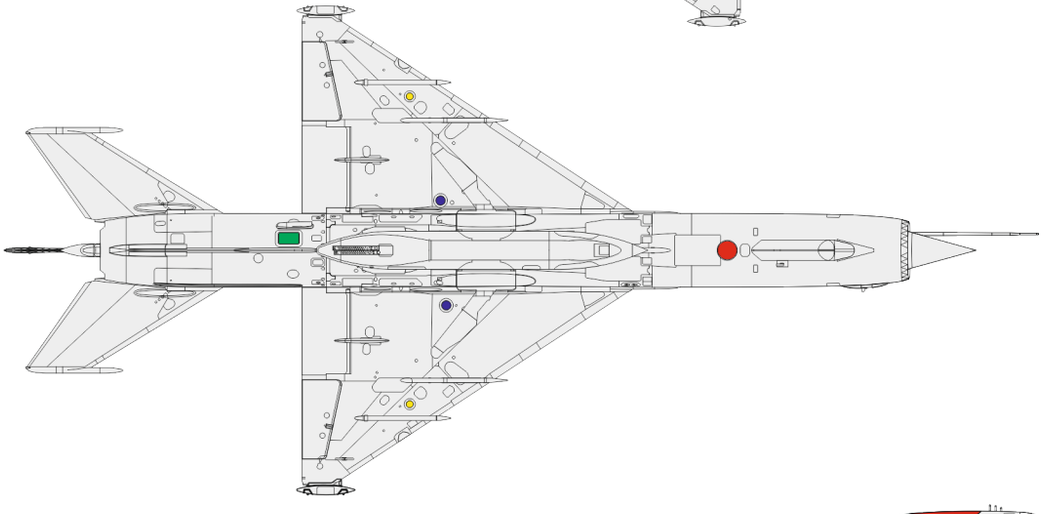


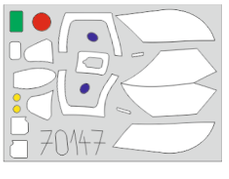


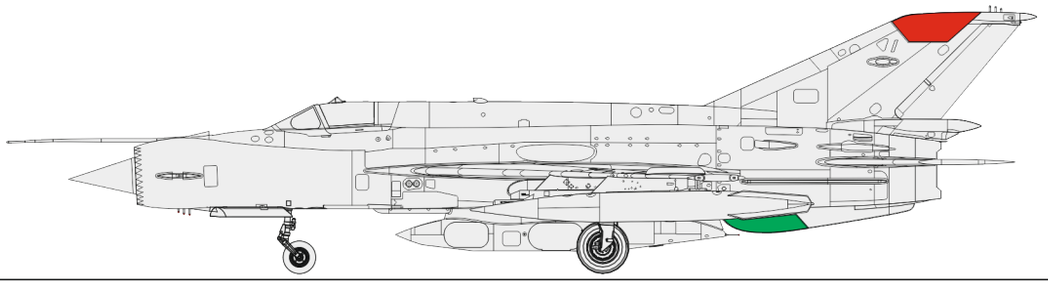
eduard
MASK
70147

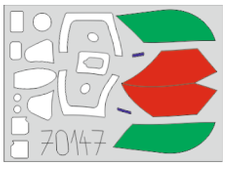




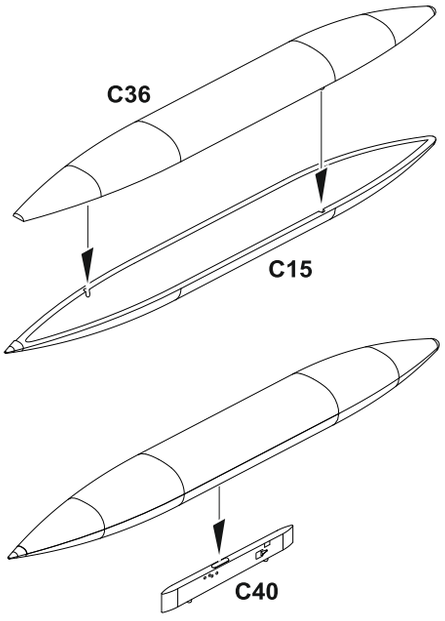






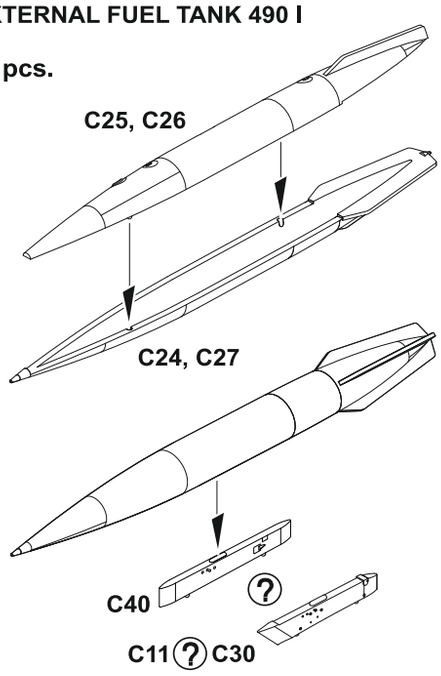


EXTERNAL FUEL TANK 800 l



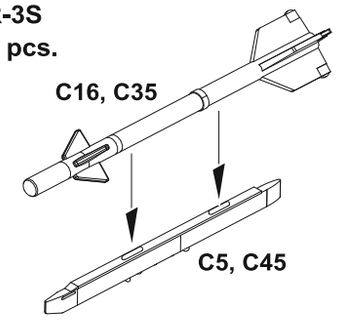
EXTERNAL FUEL TANK 490 l

2 pcs.



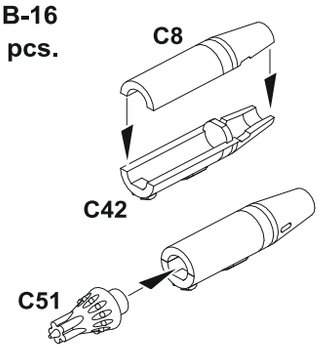
R-3S

2 pcs.



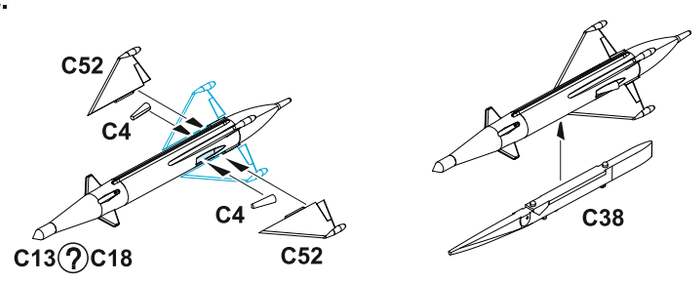
UB-16

2 pcs.



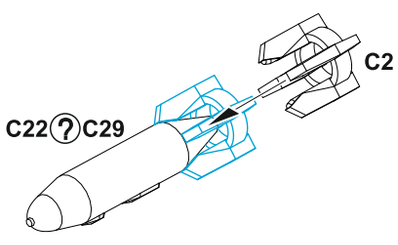
RS-2US

2 pcs.

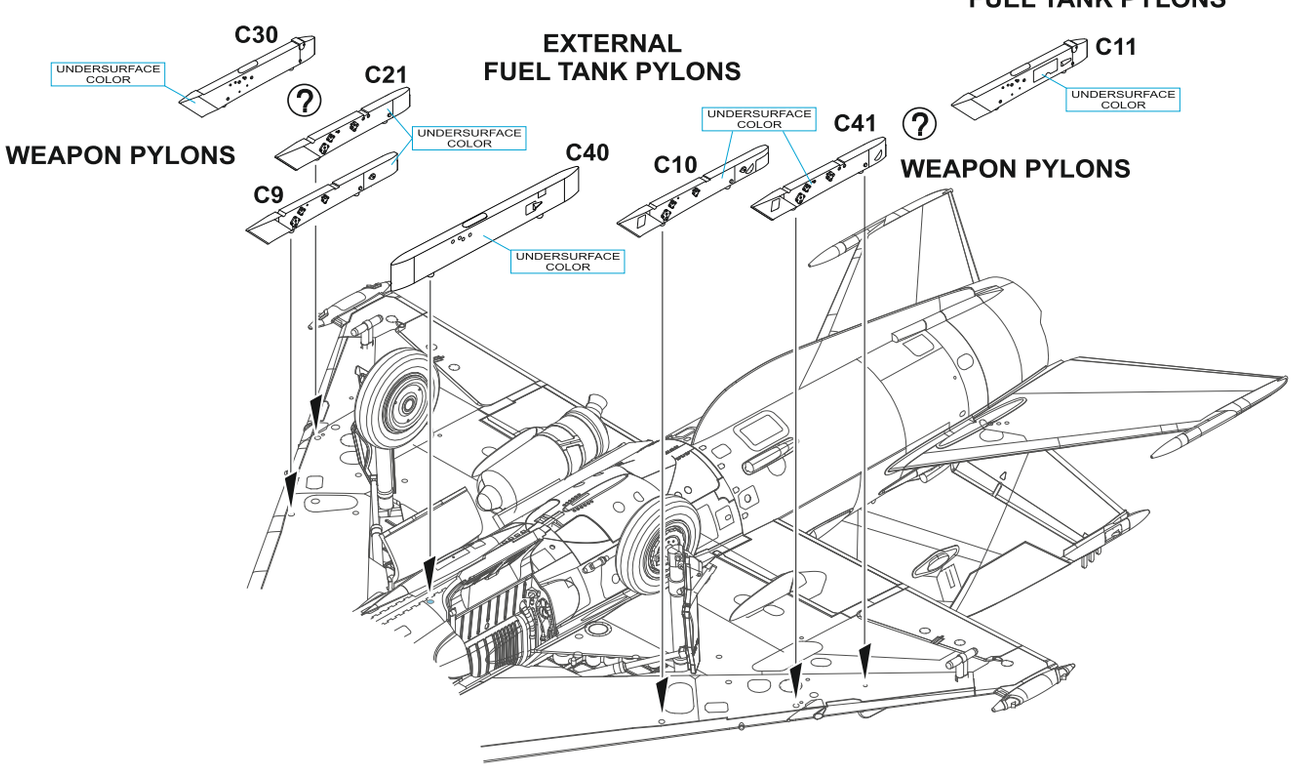


FAB 250

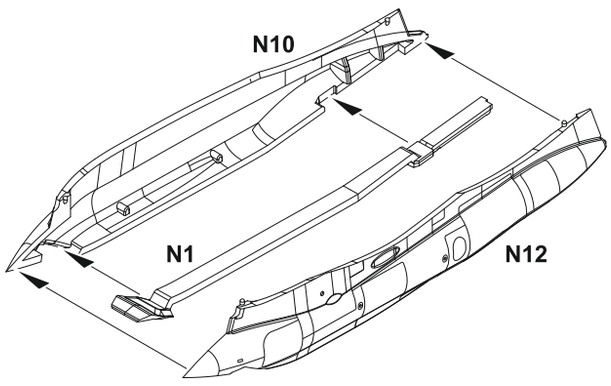
2 pcs.



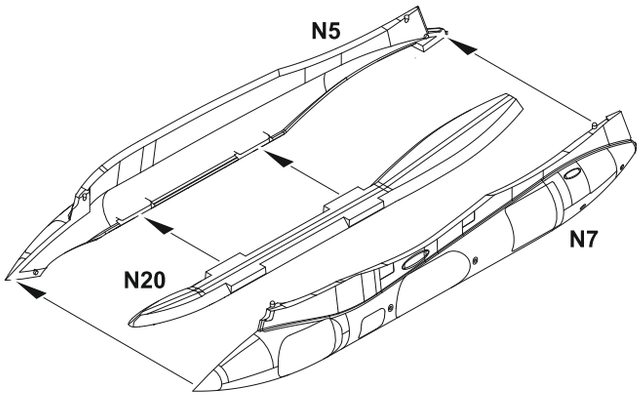
EXTERNAL FUEL TANK PYLONS



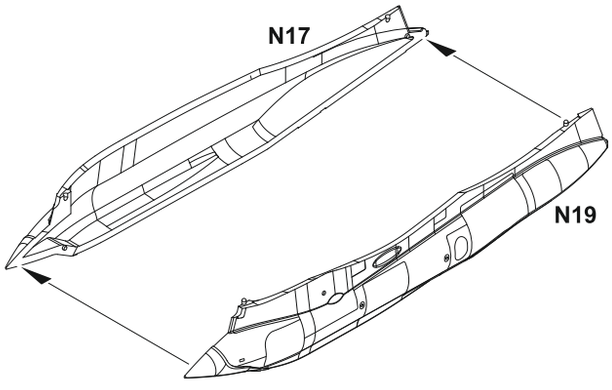
H MARKINGS B, C ONLY

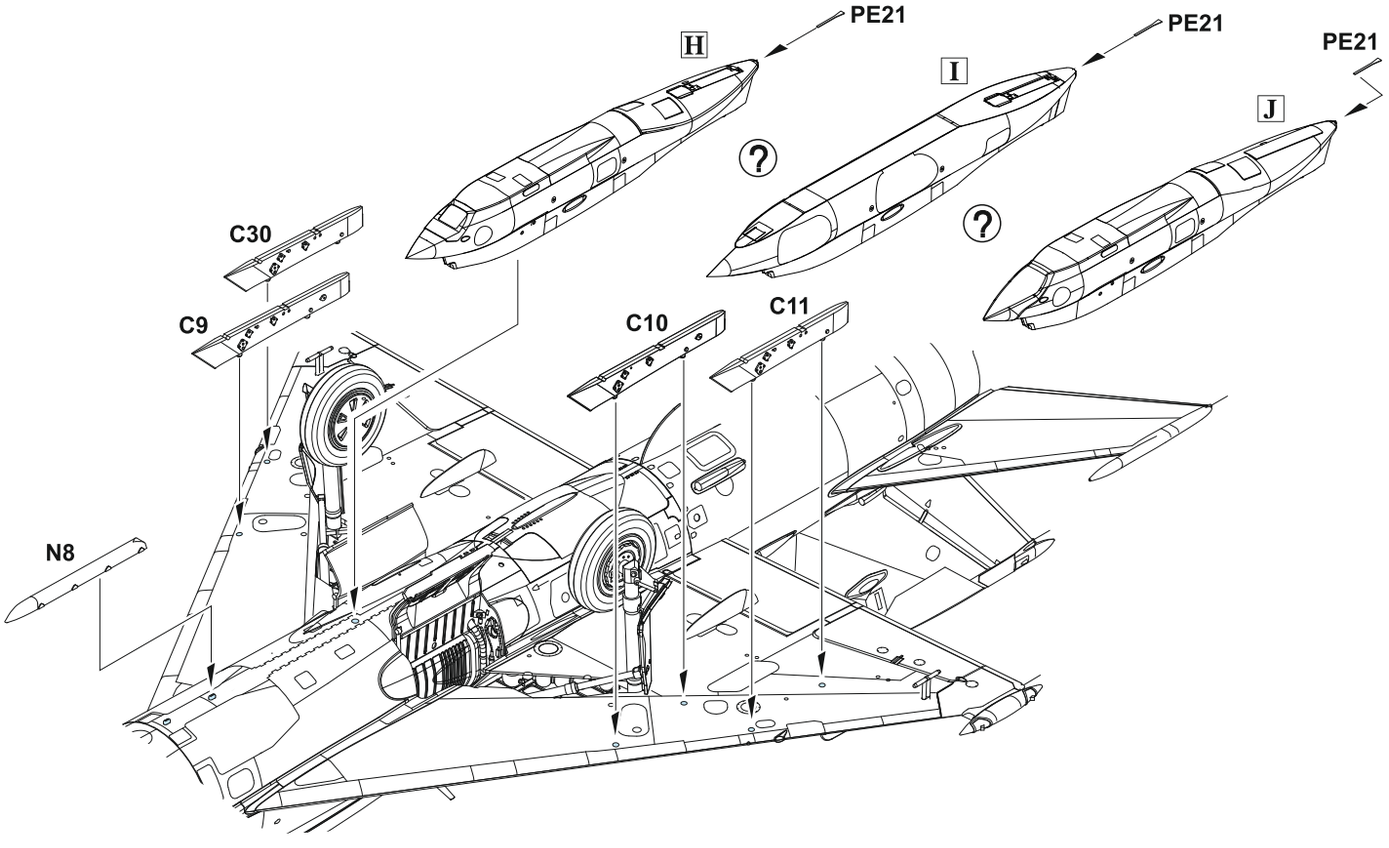


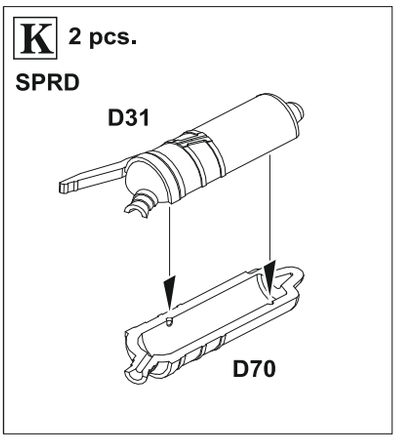
I MARKINGS A, D ONLY



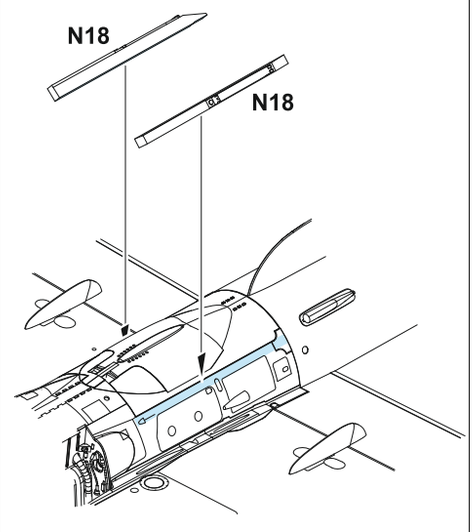
J MARKING E ONLY



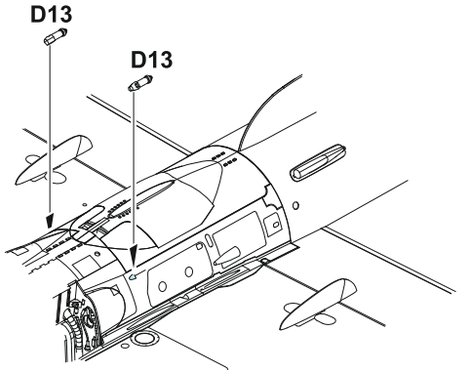




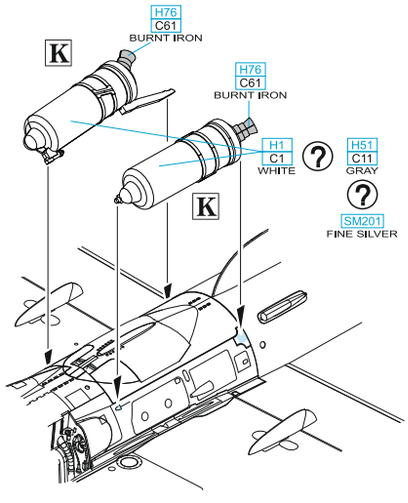
MARKING C ONLY ?



MARKINGS A,B,E

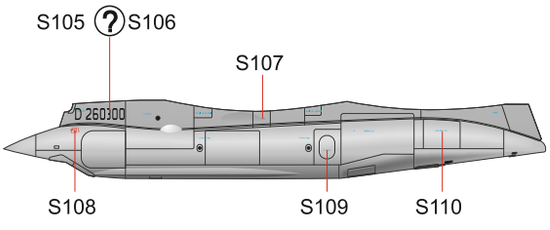


MARKING D

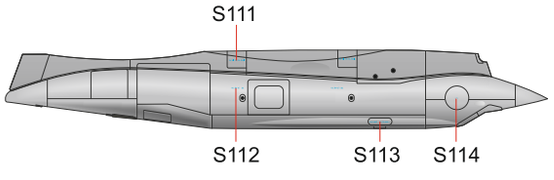


MiG-21R

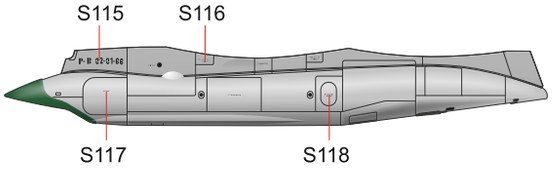
STENCILING POSITIONS

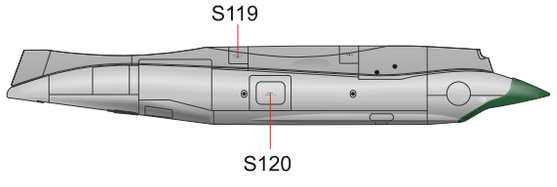


Type D pod
(Czech stencils)

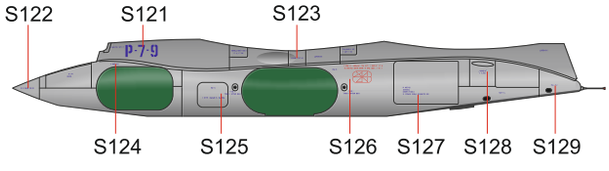


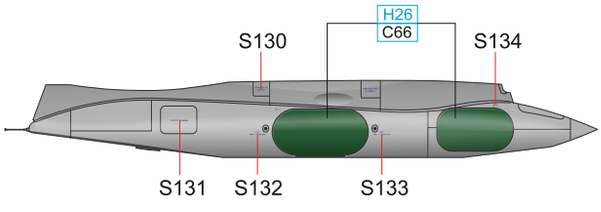
Type R-V pod / Type D pod
(Russian stencils)



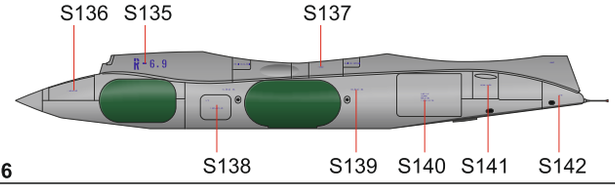


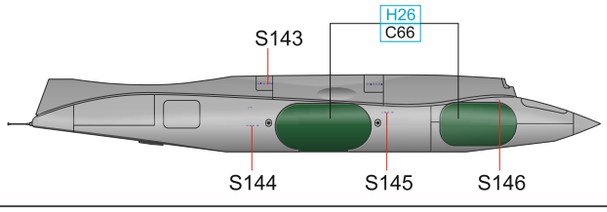
Type R pod
(Russian stencils)

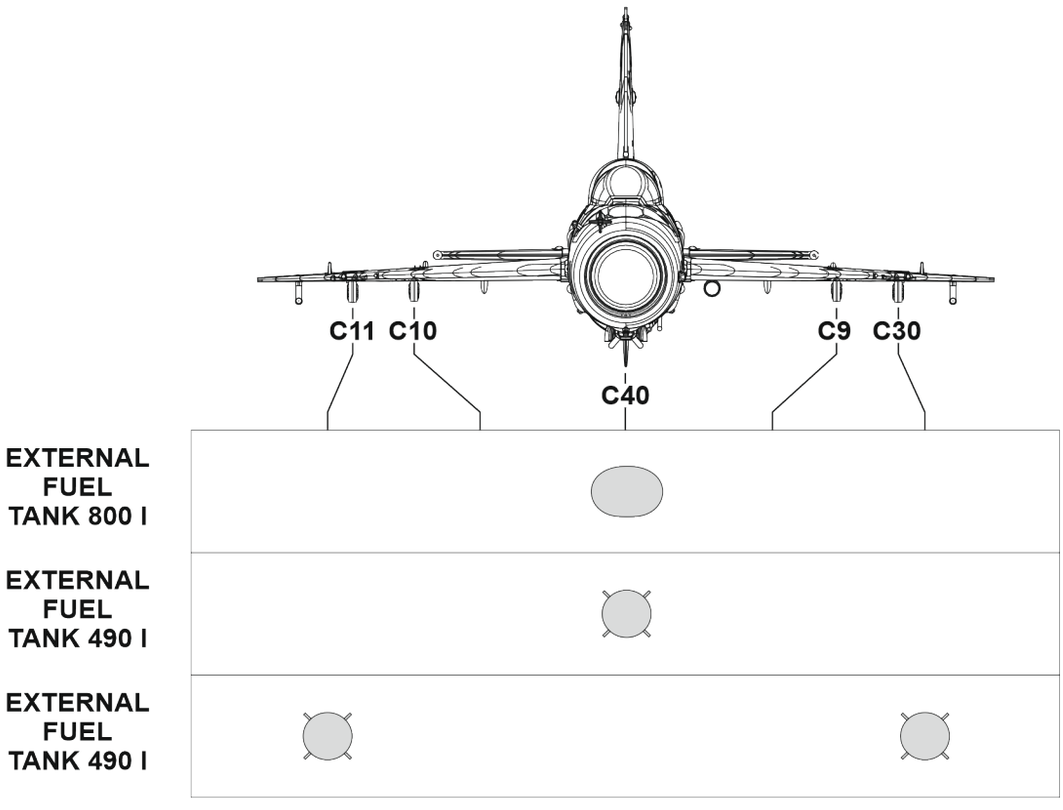




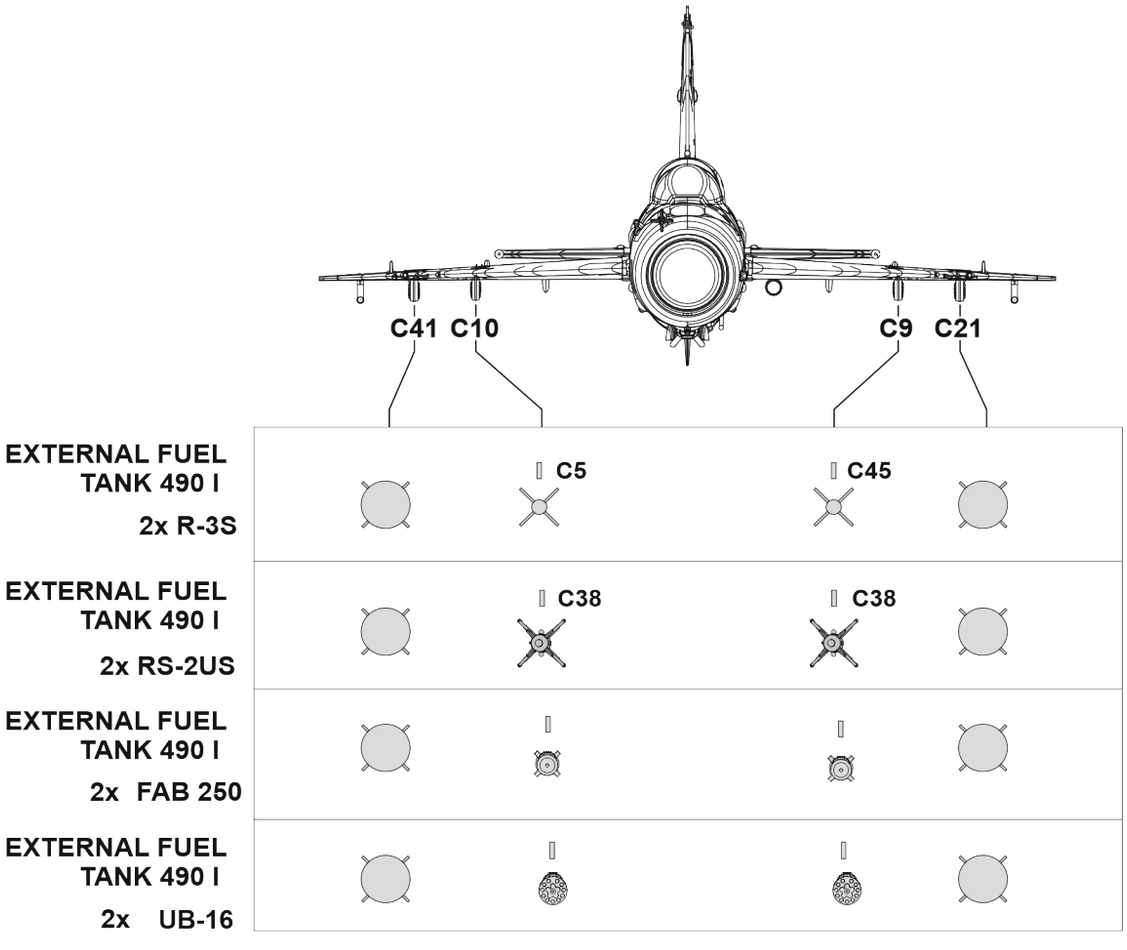
Type R pod
(Czech stencils)



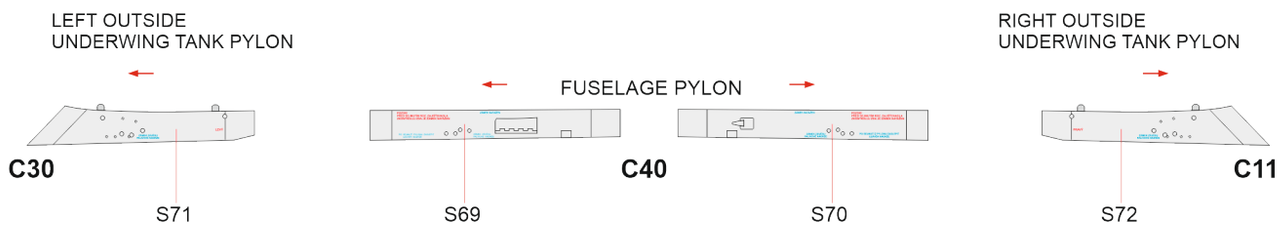




TYPICAL ARMAMENT FOR QUICK REACTION ALERT DUTY

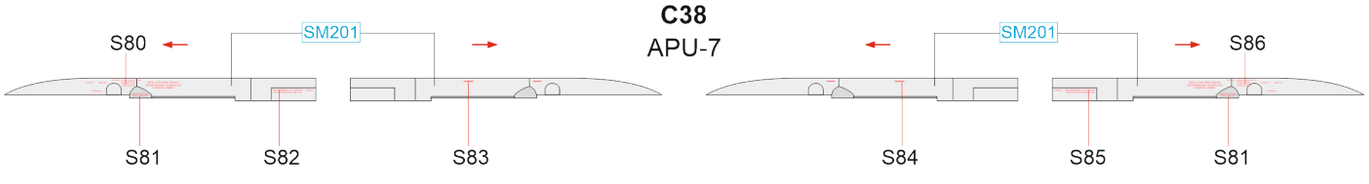


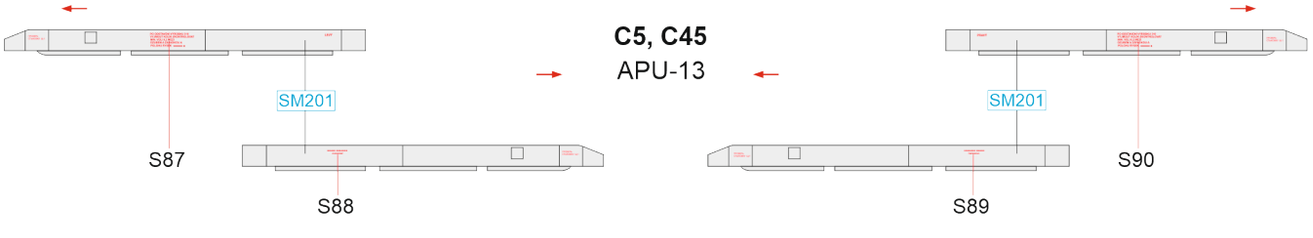
TO CHOOSE WEAPON AND EXTERNAL FUEL TANK OPTION PLEASE FOLLOW YOUR REFERENCE.


LEFT OUTSIDE
UNDERWING TANK PYLON
RIGHT OUTSIDE
UNDERWING TANK PYLON
FUSELAGE PYLON
C30
C40
C11
S71
S69
S70
S72

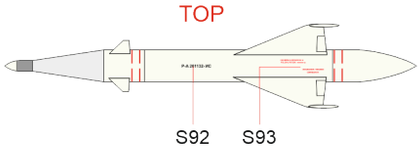

LEFT OUTSIDE PYLON
C21
RIGHT OUTSIDE PYLON
C41
S7
S73
S75
S75
S74
S7

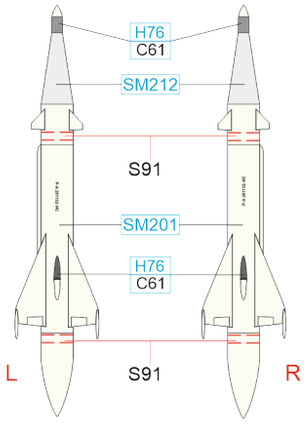

LEFT INSIDE PYLON
C9
RIGHT INSIDE PYLON
C10
S7
S76
S77
S78
S79
S7


C38
APU-7
S80
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S86
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S82
S83
S84
S85
S81

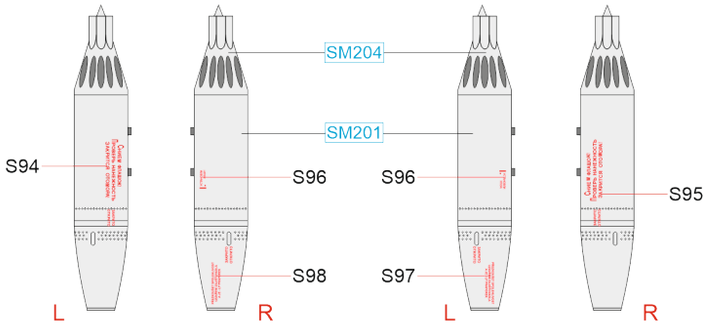

C5, C45
APU-13
SM201
SM201
S87
S88
S89
S90

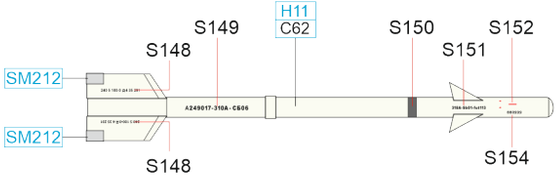
RS-2US



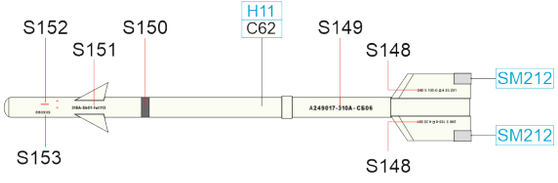


UB-16

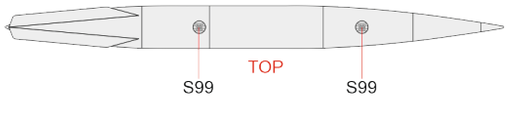


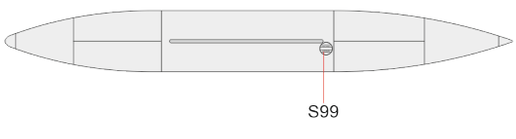


R-3S

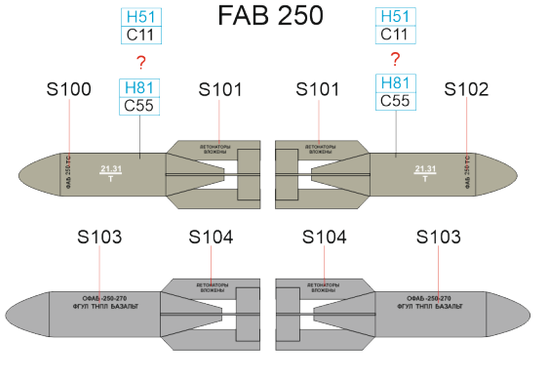


Tanks



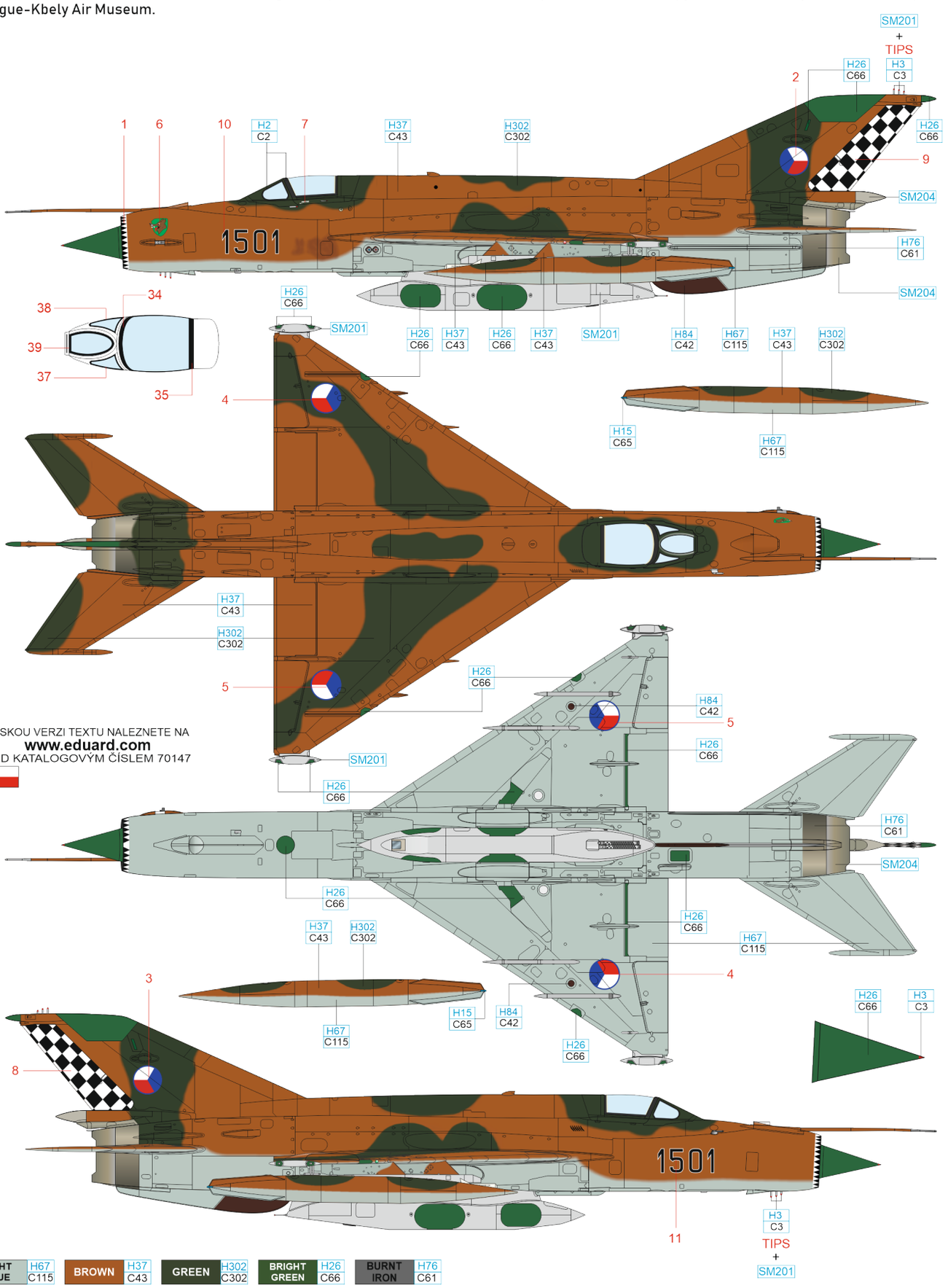


FAB 250



A Air Test Department, Czech Air Force, Čáslav Air Base, Czech Republic, 1994

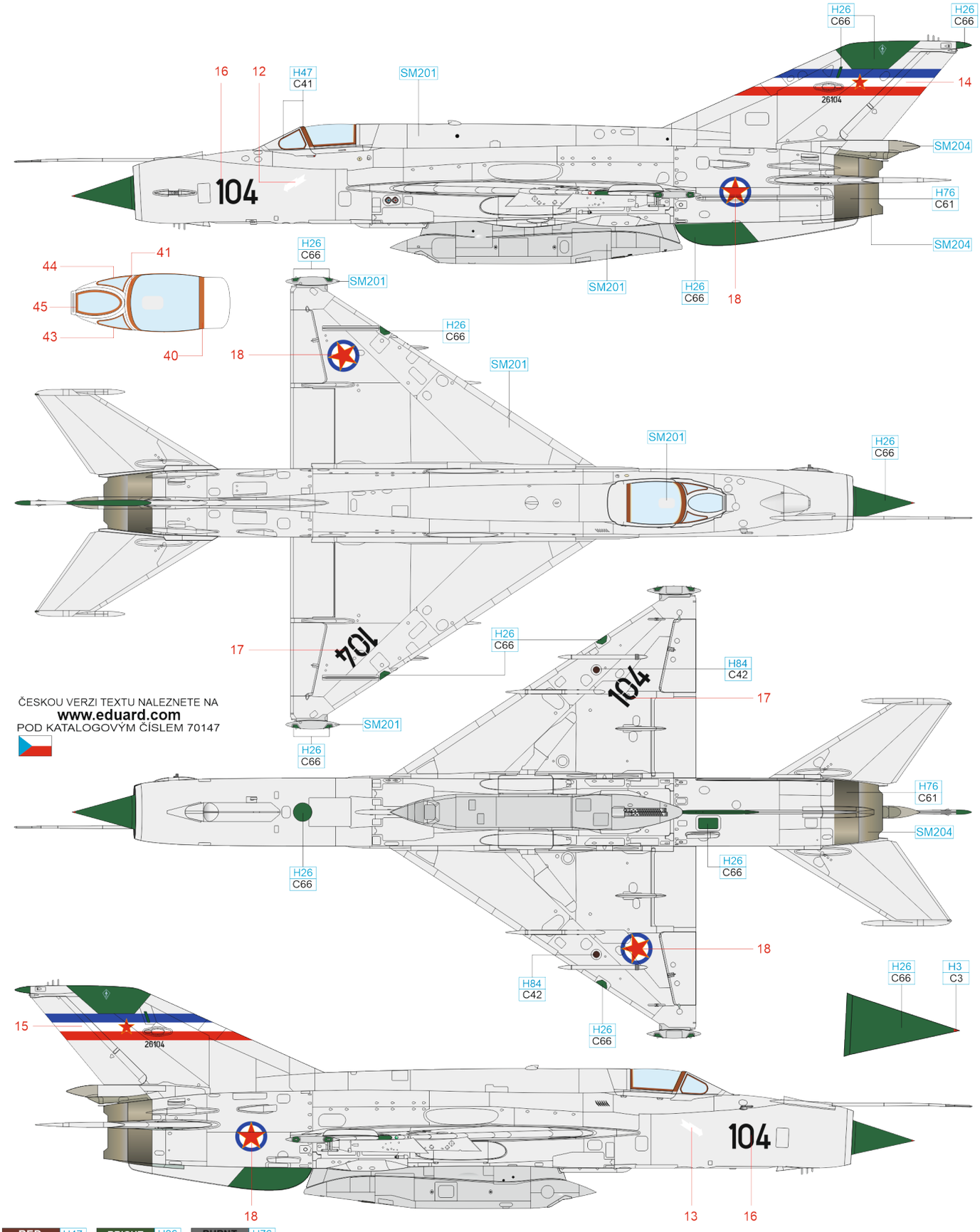
The appearance of the MiG-21R No. 1501 (s/n 94R001501) changed many times during its service in the Czechoslovak and Czech Air Force. Delivered in natural metal finish, it served in that form until general overhaul when a green and brown camouflage was applied. The black and white checkerboard on the rudder and triangles on the nose were painted afterwards. The aircraft was delivered to Czechoslovakia in January 1969 and was flown by the 47th Reconnaissance Air Regiment till 1993. In 1994, after overhaul, it was flown by the 28th Fighter-Bomber Air Regiment for a short period and then used by the Air Test Department (also known as 'Stress Flight') during late 1994 and 1995. The 47th Recce Air Regiment unit badge – a jackal head – is painted on the port side of the nose. The nickname of ground personnel member DOKTOR is painted on the canopy frame. Currently, the aircraft is preserved in Prague-Kbely Air Museum.



LIGHT BLUE	H67 C115	BROWN	H37 C43	GREEN	H302 C302	BRIGHT GREEN	H26 C66	BURNT IRON	H76 C61
MAHOGANY	H84 C42	BLACK	H2 C2	BRIGHT BLUE	H15 C65	RED	H3 C3	SUPER STAINLESS	SM204
SUPER FINE SILVER	SM201								

B 353 izviđačka eskadrila (353rd Reconnaissance Air Squadron), Ratno vazduhoplovstvo i protivvazdušna odbrana, Zelyava Air Base, Yugoslavia, 1971

The Yugoslav Air Force purchased a dozen MiG-21Rs from the Soviet Union. These were delivered either in 1968 or 1969 and served under the local type designation L-14I. The first user of Aircraft 26104 was the 126 Reconnaissance Squadron that flew all of the Yugoslav MiG-21Rs. This Squadron was a part of the 204 Fighter Air Regiment. The next users of this aircraft were the 352 and 353 Reconnaissance Squadrons, before it was scrapped at Kraljevo. The white lightning appeared on the nose during "Sloboda" military exercise in 1971.

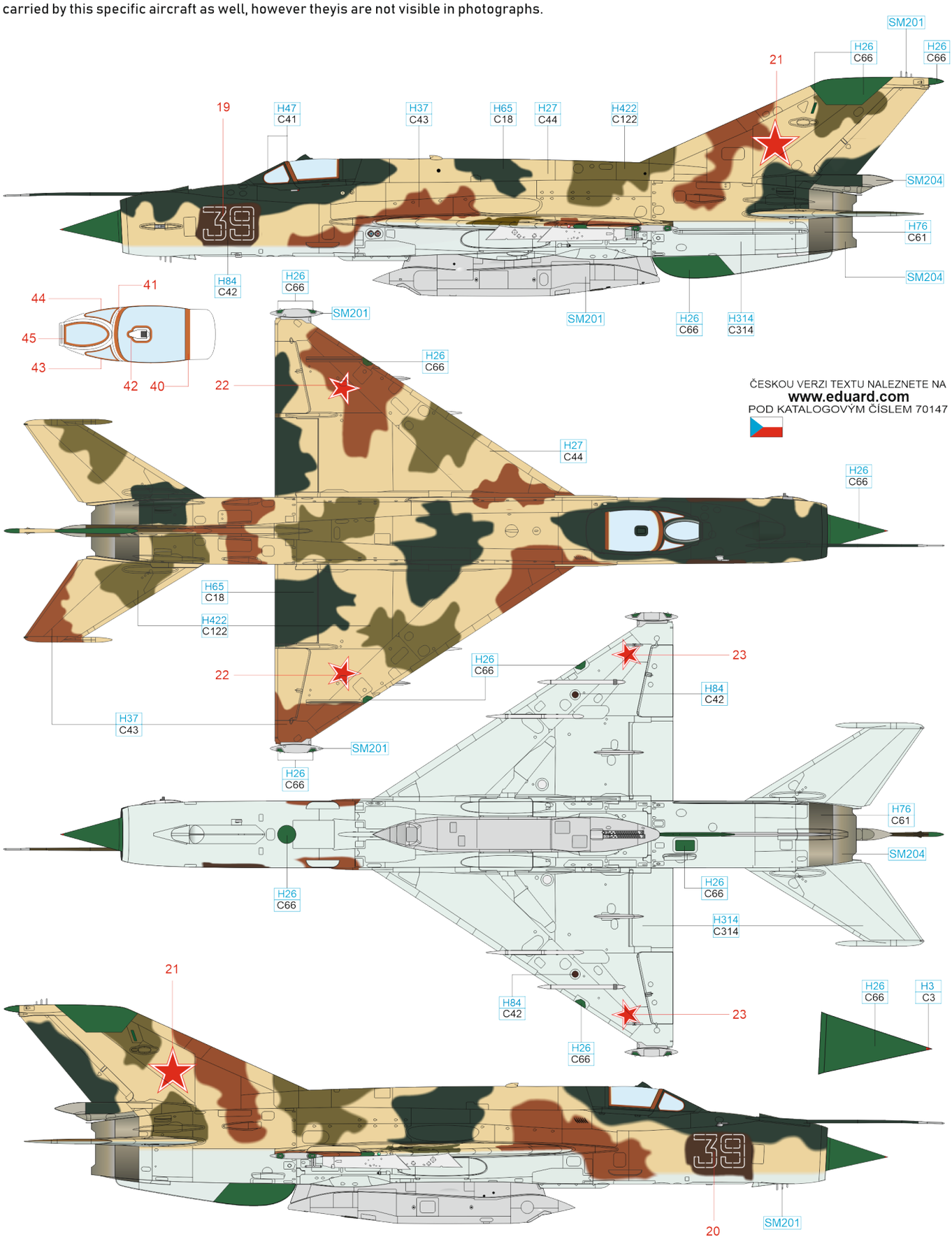


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RED BROWN	H47 C41	BRIGHT GREEN	H26 C66	BURNT IRON	H76 C61		
MAHOGANY	H84 C42	RED	H3 C3	SUPER STAINLESS	SM204	SUPER FINE SILVER	SM201

C 263 Independent Reconnaissance Air Squadron, Soviet Air Force, Kabul Airfield, Afghanistan, 1981

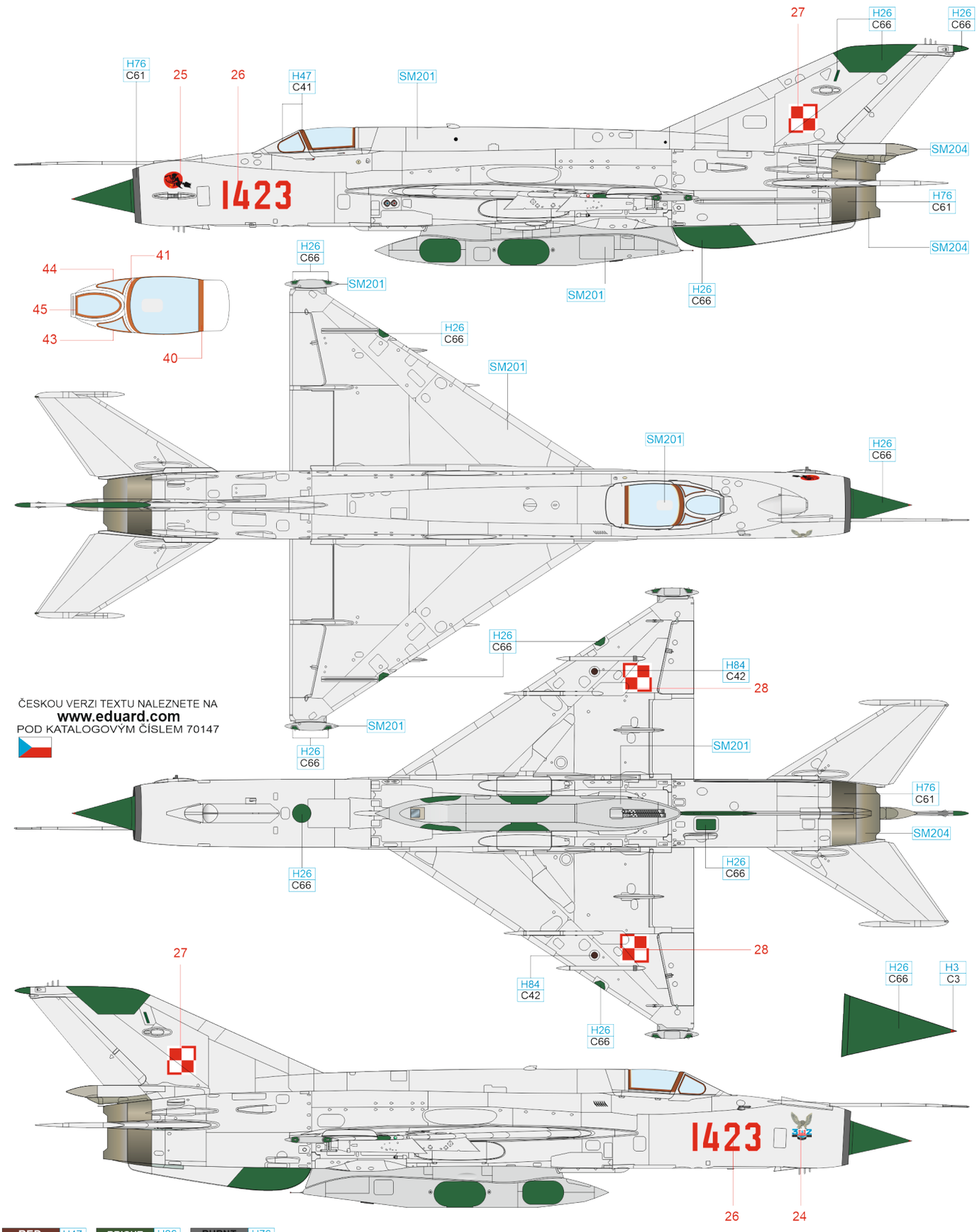
Following the Soviet invasion of Afghanistan, recce aircraft appeared at local airfields. The 263 Independent Reconnaissance Air Squadron (ORAE) moved to Afghanistan in early January 1980 and found its home at Bagram and Kandahar air bases. The squadron began to fly their aircraft from Kabul in late April 1980 and stayed there till 1984. The MiG-21R depicted was one of the recce aircraft that operated from this air base. The camouflage scheme was created to match the appearance of the local landscape. Many Soviet aircraft flown in Afghanistan were equipped with chaff and flare dispensers. These could be carried by this specific aircraft as well, however theyis are not visible in photographs.



TAN	H27 C44	LIGHT GREEN	H422 C122	RED BROWN	H47 C41	BROWN	H37 C43	BRIGHT GREEN	H26 C66	BURNT IRON	H76 C61				
LIGHT BLUE	H314 C314	GREEN	H65 C18	MAHOGANY	H84 C42	RED	H3 C3	SUPER STAINLESS	SM204	SUPER FINE SILVER	SM201				

D 32 Tactical Reconnaissance Air Regiment, Wojska Lotnicze i Obrony Powietrznej, Sochaczew-Bielice Air Base, Poland, early 1980s

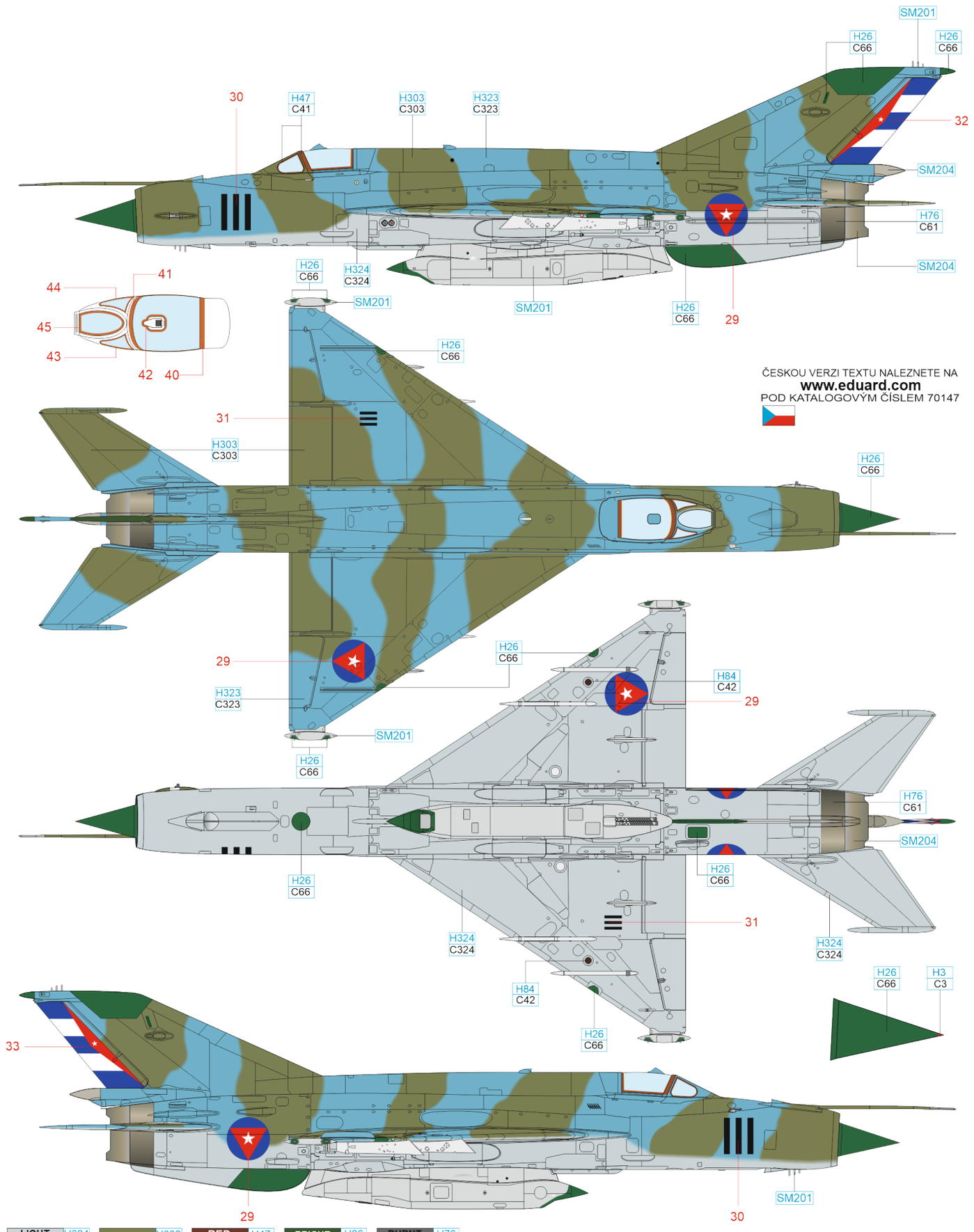
MiG-21R s/n 94R011423 was delivered to Poland on September 29, 1968, along with another "R". These two unit were the first MiG-21Rs to arrive in Poland. The aircraft No. 1423 was flown by the 41 Fighter Air Regiment based at Malbork Air Base. Short period of time., On July 8, 1969, the aircraft was overhanded to the 21st Tactical Reconnaissance Air Regiment and moved to Sochaczew. From December 1982, it entered the inventory of the 2nd Squadron, 32 Tactical Reconnaissance Air Regiment. Service with this unit was symbolized by the squadron badge on the port side of the nose, while the starboard side sports the 32 Tactical Reconnaissance Air Regiment unit badge. This aircraft is preserved at the air museum in Drzonow, Poland.



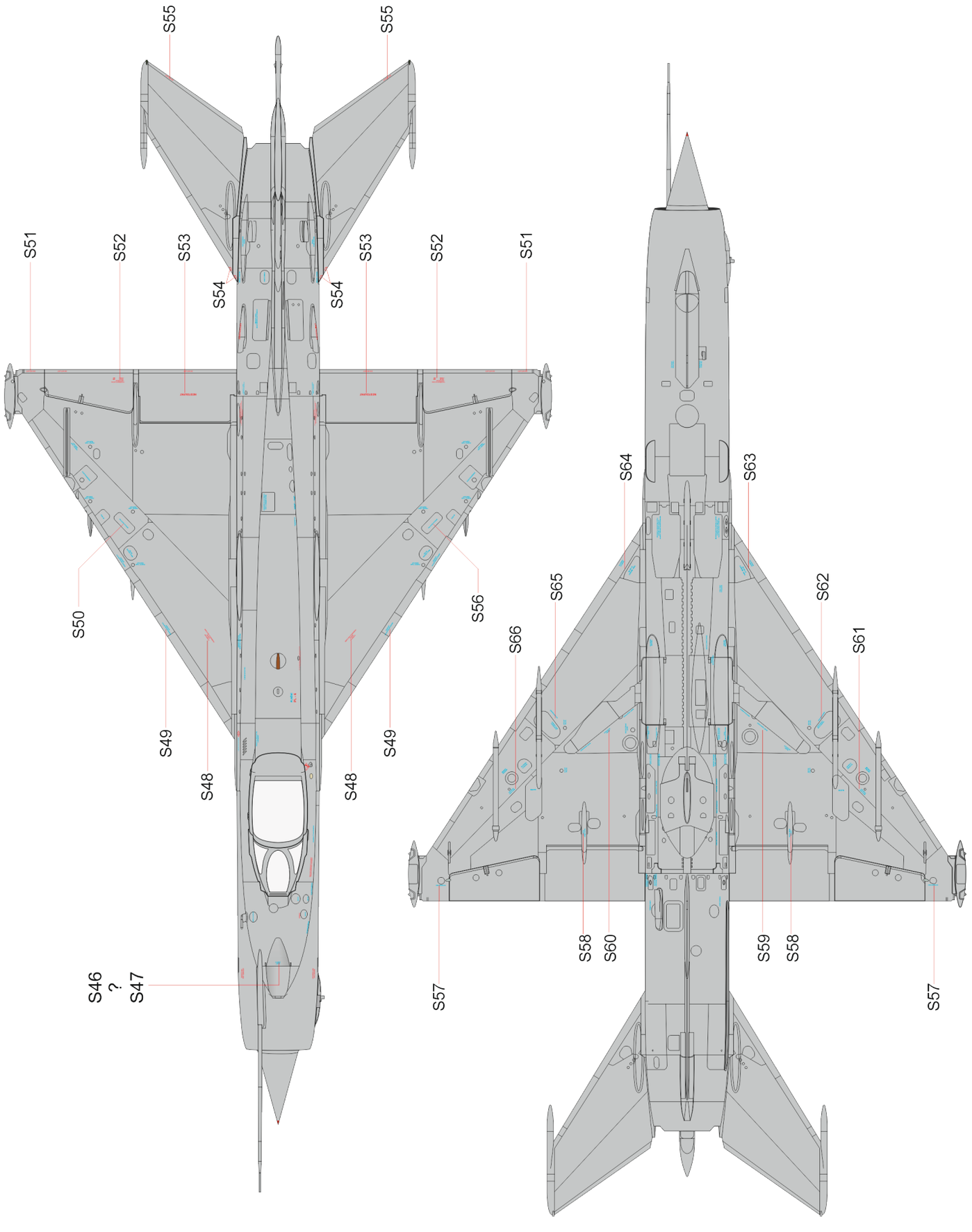
RED BROWN	H47 C41	BRIGHT GREEN	H26 C66	BURNT IRON	H76 C61		
MAHOGANY	H84 C42	RED	H3 C3	SUPER STAINLESS	SM204	SUPER FINE SILVER	SM201

E Defensa Anti-Aérea y Fuerza Aérea Revolucionaria, Cuba, 1980s-1990s

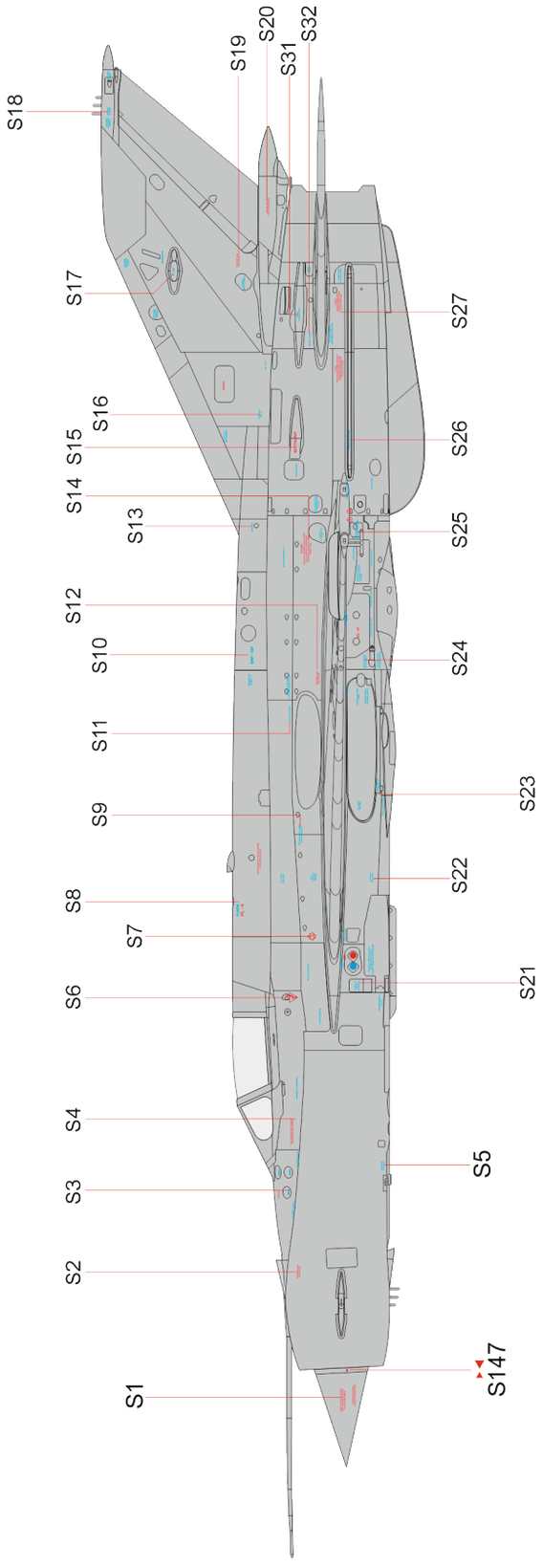
The Cuban Air Force obtained twelve MiG-21Rs in total. These were delivered from the Soviet Union and put into service in 1968. Aircraft No. 111 can be seen at the air museum in Havana. The green and blue camouflage scheme was recently seen on Cuban Air Force aircraft. The instrument panel of this MiG is painted black despite the specification calling for turquoise. Cuban MiG-21Rs were typically armed with two R-3S missiles mounted along with recce pod and two external 490l fuel tanks.

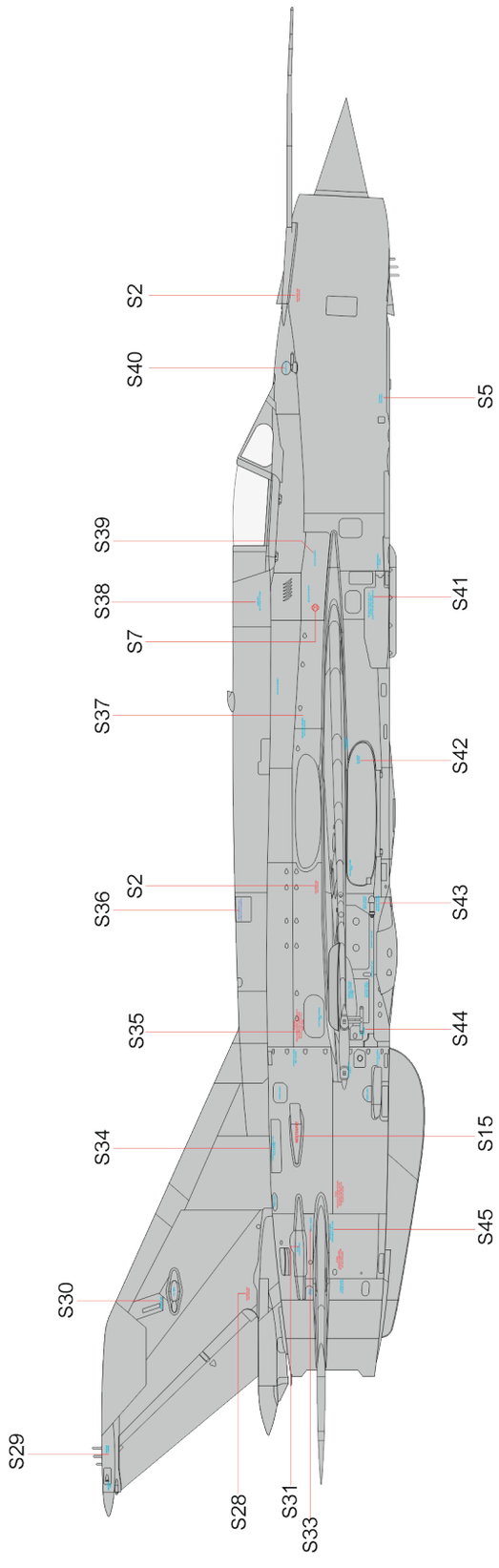


LIGHT GRAY	H324 C324	GREEN	H303 C303	RED BROWN	H47 C41	BRIGHT GREEN	H26 C66	BURNT IRON	H76 C61
LIGHT BLUE	H323 C323	MAHOGANY	H84 C42	RED	H3 C3	SUPER STAINLESS	SM204	SUPER FINE SILVER	SM201


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Pro letouny kamuflované jsou určeny popisky červené a modré, pro letouny v barvě kovu použijte popisky červené a černé.
Red and blue stencils for camouflaged aircraft, black and red for grey metal aircraft.





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NOTES

Eduard goodies for MiG-21R 1/72

672104	R-3S / AA-2 Atoll-A (Brassin)
672191	RS-2US missiles for MiG-21 (Brassin)
672218	MiG-21 F.O.D. (Brassin)
672381	MiG-21 wheel bays PRINT (Brassin)
672417	MiG-21 seat PRINT (Brassin)
672418	MiG-21 seat w/ integral belts PRINT (Brassin)

