eduard

1/72 Scale Plastic Model Kit



ProfiPACK

The MiG-21 was the most-produced supersonic fighter in the World serving with more than fifty Air Forces. The MiG-21PFM was the advanced all-weather variant equipped with a radar.

The roots of MiG-21 reach back to the first half of the fifties. In 1954, when the preliminary design study Ye-1 came to its end and was quickly replaced by the reworked Ye-2 prototype. Both had a swept wing. 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.

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.

The way to the interceptor

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 the beginning of the sixties. Subsequent versions included the FL, PFM and R with production of these peaking at the end of the sixties. The third generation started production 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 designated MiG-21U, UM and US.

Production of the MiG-21 ended in 1985. The new aircraft came off production lines in Moscow, Gorky and Tbilisi, the MiG-21F-13 was also built under license in Czechoslovakia and the MiG-21FL, M and bis in India. 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.

Aces from all over the world

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 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. The top of the ladder is occupied by Nguyen Ven Coc with nine kills, followed by three eight-victory aces: Mai Van Cuong, Nguyen Hong Nhi and Pham Thanh Ngan. All of them served with 921st Air Regiment and were flying their combat missions with the MiG-21PF or PFM variants. 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 and 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 Fulcrum in eighties.

The kit: MiG-21PFM

In 1961, the MiG-21PF all-weather interceptor was introduced into production at Plant 21 in Gorky. This was a modification of the MiG-21F-13, in which the radar rangefinder was replaced by the RP-21 radar, the installation of an enlarged fuel tank in the extended dorsal fuselage behind the cabin was another change. The armament options were expanded to include RS-2US (AA-1 Alkali) anti-aircraft missiles. Soon after, work began on other improvements, most notably the blown flaps and reworked brake parachute. The Je-7SPS prototype was used for testing. The production version was designated MiG-21PFS and was put into production at Plant 21 in 1963. The Je-7SPS prototype was subsequently used to test a modified weapon system, where the RP-21 radar was supplemented with an ASP-PF optical gunsight and a Samosvet IR gunsight. The ASP-PF acquired target data from the radar, which increased the accuracy of the guided AA missiles fired on air targets as well as of attacks against ground targets using unguided missiles and bombs. In addition, the Samosvet enabled the search and targeting of air targets in night conditions. Due to the new equipment, the one-piece canopy was changed for two-piece one, which lacked 62mm armoured windshield glass. The side opening canopy got the periscope for better rearward visibility. As more space was needed for the avionics, the volume of the No. 1 fuel tank had to be reduced. The R-3S (AA-2 Atoll) anti-aircraft missile was added to the weaponry. The modified Je-7SPS prototype was redesignated Je-7M and completed on October 17, 1962. In 1964, after military examinations, the type was released for serial production under the designation MiG-21PFM. It shared a wider tail fin with the MiG-21PFS aircraft of 10th production series and later. Both also shared the code designation Izdelyie 94. Between 1963 and 1966, a total of 944 MiG-21PFMs (Fishbed F) were produced by the Plant 21, but this number includes the late series MiG-21PFS, which did not differ externally from the PFM. Virtually, all of the Gorky-built MiG-21PFMs and PFSs were reserved for the Soviet Air Force (VVS), while the aircraft for foreign customers were built at Moscow Plant No. 30.

Although the MiG-21PFM was designed primarily for air defense missions, it could also carry unguided missiles and bombs. Later, it was decided to install the Ch-66 (AS-7 Kerry) tactical air-to-ground missile with radar beam guidance. The reason for the choice of the MiG-21PFM was that it was the only combat aircraft with a radar that was present in the frontline VVS units. A good number of Soviet MiG-21PFMs were modified to carry two Ch-66s at repair plants. However, this armament reduced the performance of the aircraft, limited the flight envelope and made piloting of such an armed aircraft tricky.

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 dobře větrané místnosti. Lepidla ani barvy nepoužívejte v blízkosti otevřeného ohně. Model není určen malým dětem, mohlo by dojit k požití drobných dílů.

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

OPTIONAL VOLBA

J BEND

OHNOUT

SAND BROUSIT (§)
OPEN HOLE

VYVRTAT OTVOR

SYMETRICAL ASSEMBLY SYMETRICKÁ MONTÁŽ REMOVE

ODŘÍZNOUT

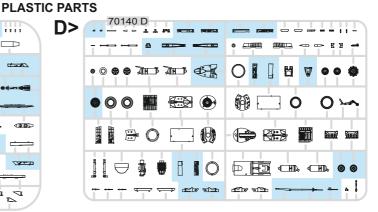
REVERSE SIDE OTOČIT

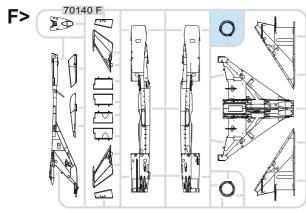


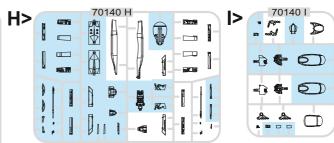
APPLY EDUARD MASK AND PAINT POUŽÍT EDUARD MASK NABARVIT



C> 70140 C











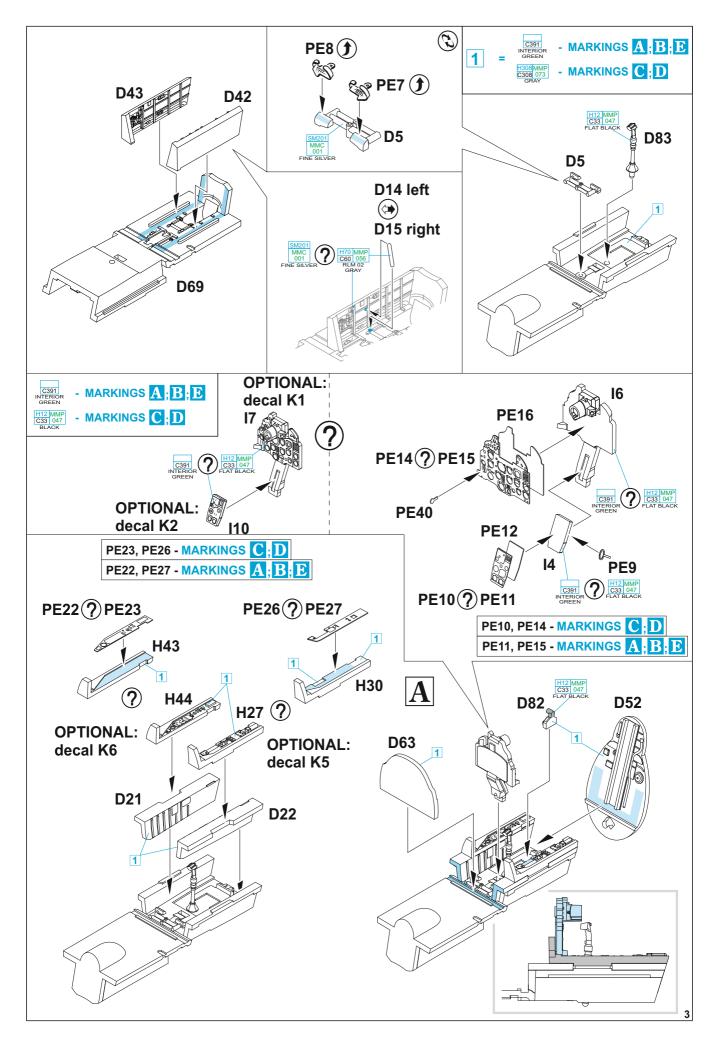
-Parts not for use. -Teile werden nicht verwendet. -Pieces a ne pas utiliser. '-Tyto díly nepoužívejte při stavbě.

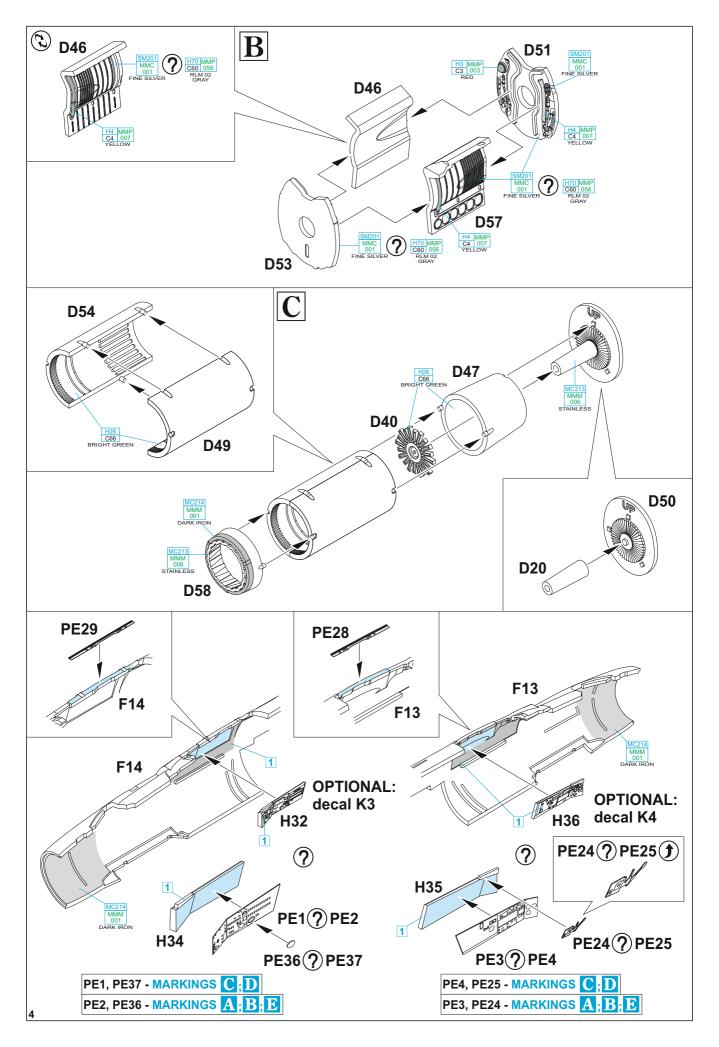
使用しない部品

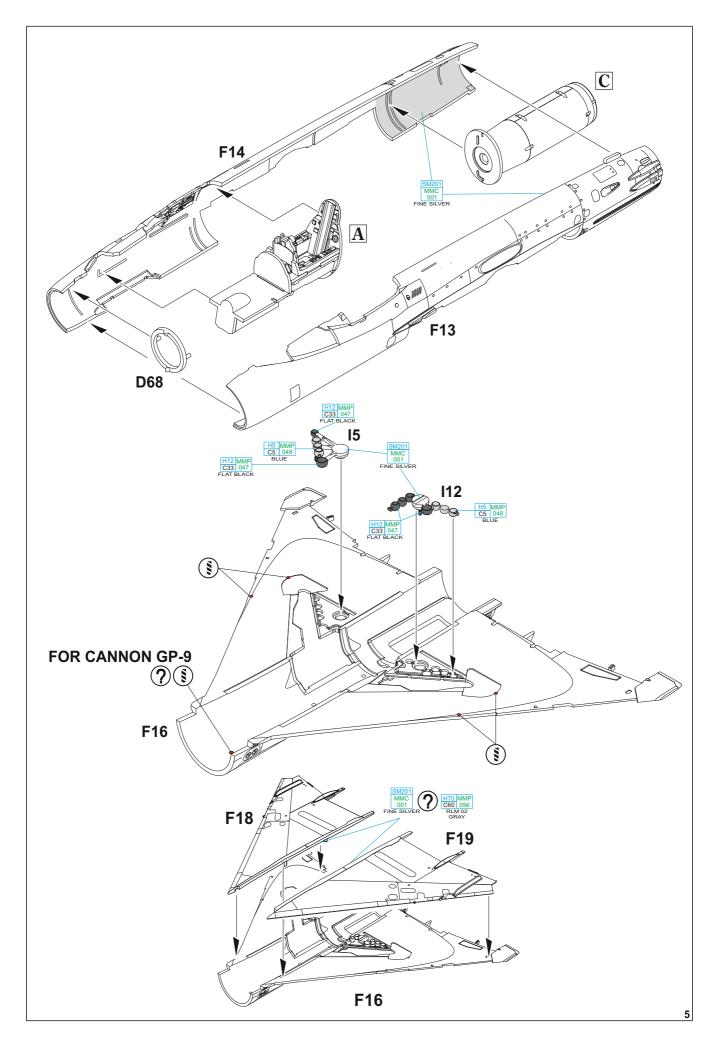
COLOURS	*	BARVY	*	FARBEN	*	PEINTURE	*	色
---------	---	-------	---	--------	---	----------	---	---

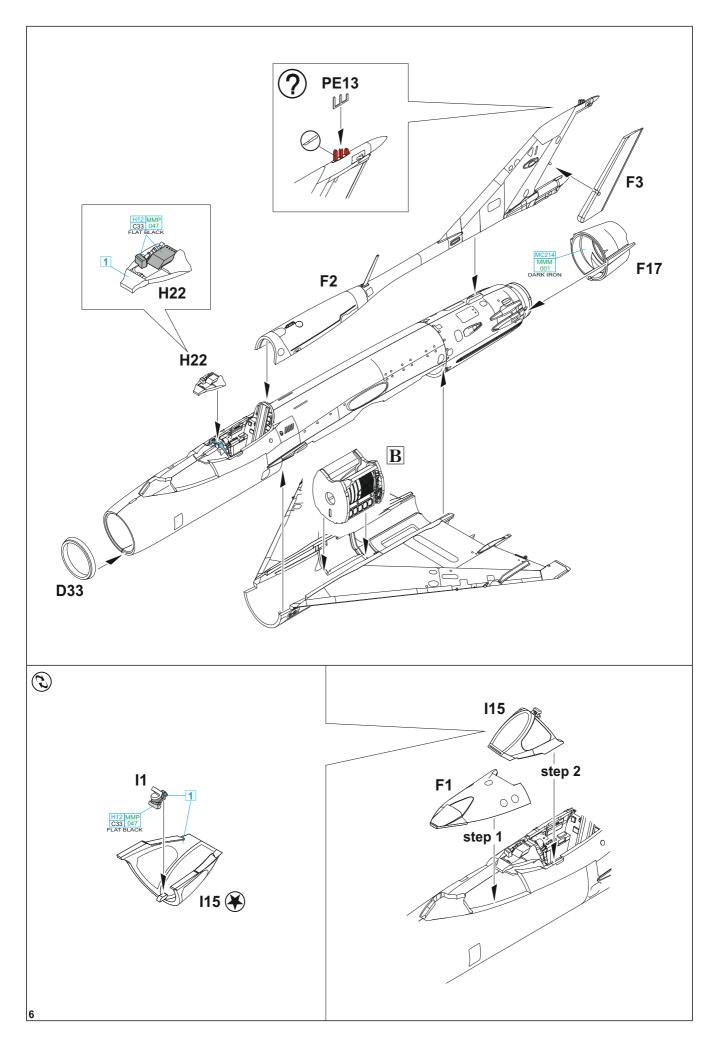
GSi Creos (GUNZE)		MISSION MODELS	
AQUEOUS	AQUEOUS Mr.COLOR		
H1	C1	MMP-001	WHITE
H3	C3	MMP-003	RED
H4	C4	MMP-007	YELLOW
H5	C5	MMP-048	BLUE
H11	C62	MMP-001	FLAT WHITE
H12	C33	MMP-047	FLAT BLACK
H15	C65		BRIGHT BLUE
H23	C79		SHINE RED
H26	C66		BRIGHT GREEN
H44	C51		FLESH
H47	C41	MMP-012	RED BROWN
H51	C11	MMP-063	LIGHT GULL GRAY
H53	C13		NEUTRAL GRAY
H66	C119	MMP-119	SAND YELLOW
H67	C115	MMP-057	LIGHT BLUE
H70	C60	MMP-056	GRAY
H72	C369	MMP-078	DARK EARTH
H77	C137	MMP-040	TIRE BLACK
H81	C55	MMP-023	KHAKI
	·		

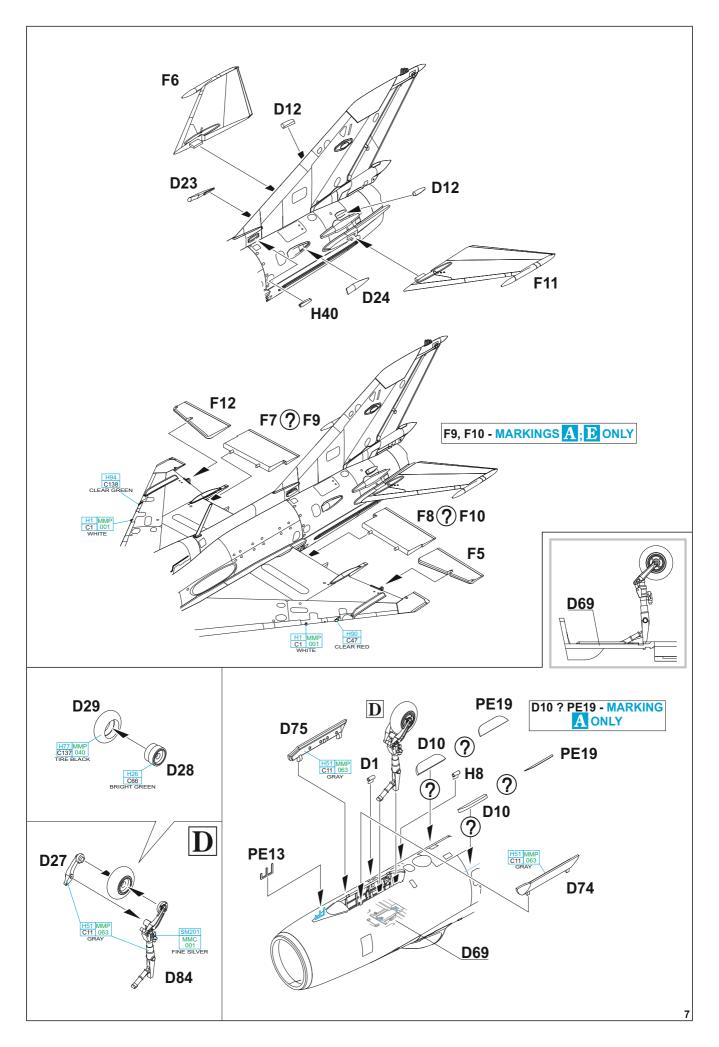
GSi Creos	(GUNZE)	MISSION MODELS	
AQUEOUS Mr.COLOR		PAINTS	
H84	C42		MAHOGANY
H90	C47		CLEAR RED
H94	C138		CLEAR GREEN
H308	C308		GRAY
H313	C313		YELLOW
H315	C315	MMP-069	GRAY
H317	C317	MMP-064	GRAY
H323	C323		LIGHT BLUE
H328	C328		BLUE
H332	C332		LIGHT AIRCRAFT GRAY
H340	C340		FIELD GREEN
H413	C113	MMP-090	YELLOW
	C391		INTERIOR GREEN
Mr.METAL COLOR		METALLICS	
MC213		MMM-006	STEEL
MC	214	MMM-001	DARK IRON
Mr.COLOR SUI	PER METALLIC	METALLICS	
SM	201	MMC-001	SUPER FINE SILVER

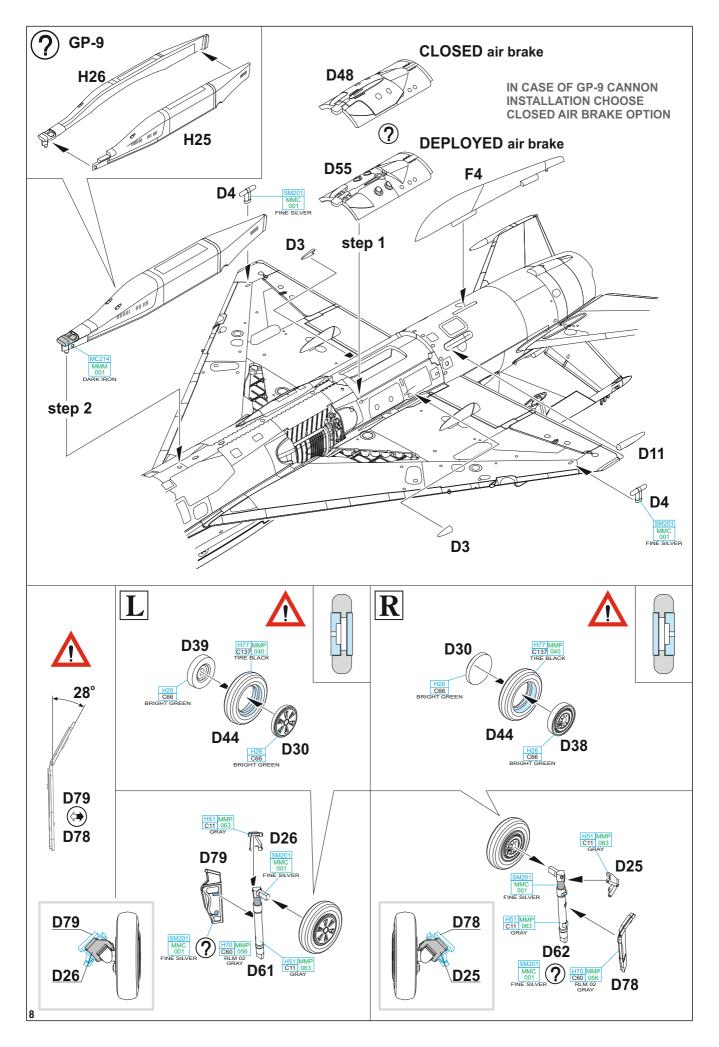


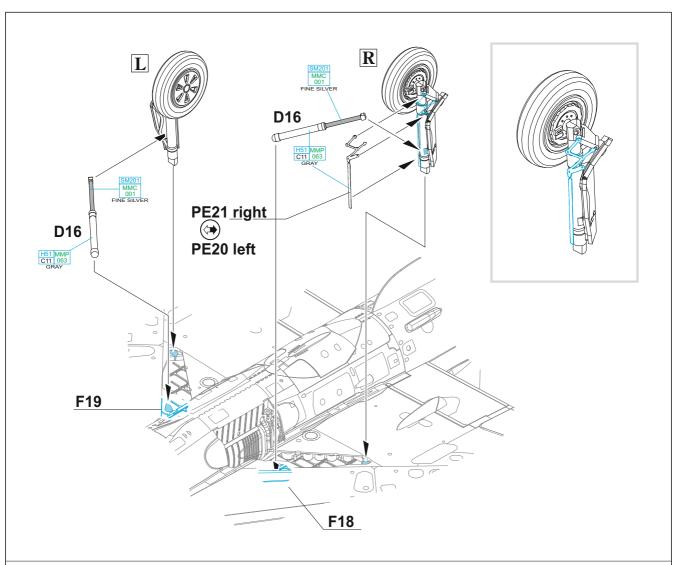


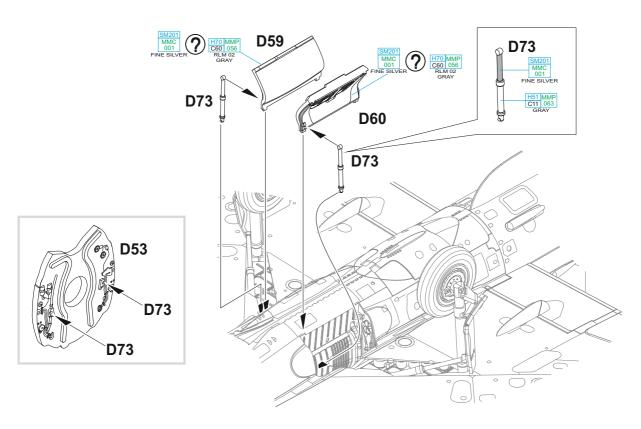


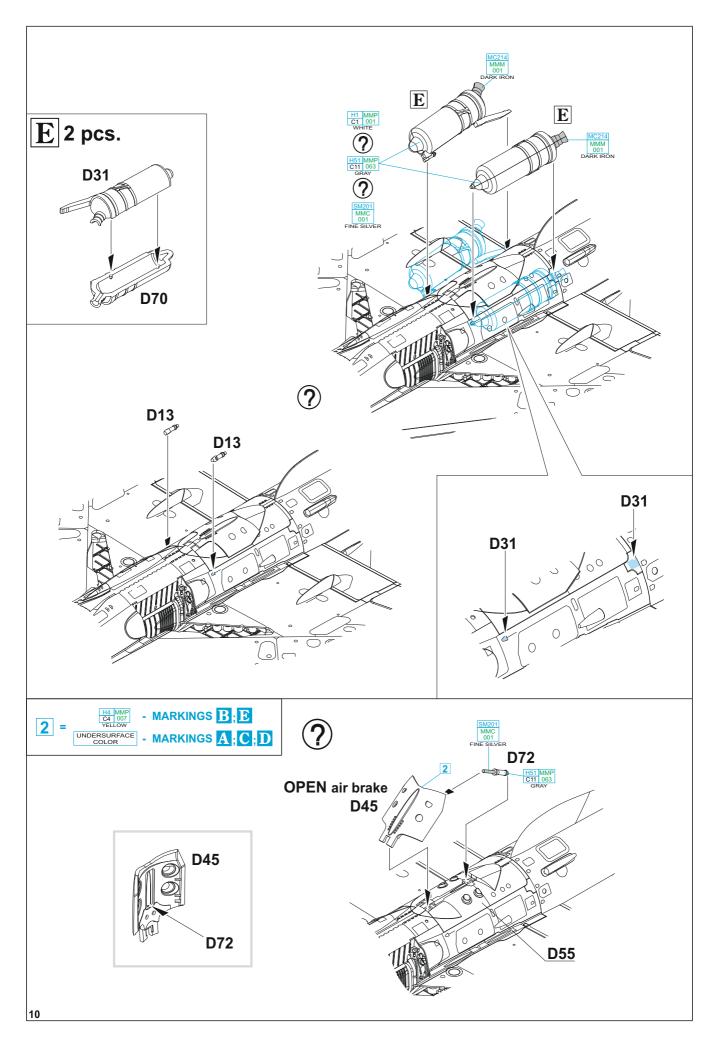


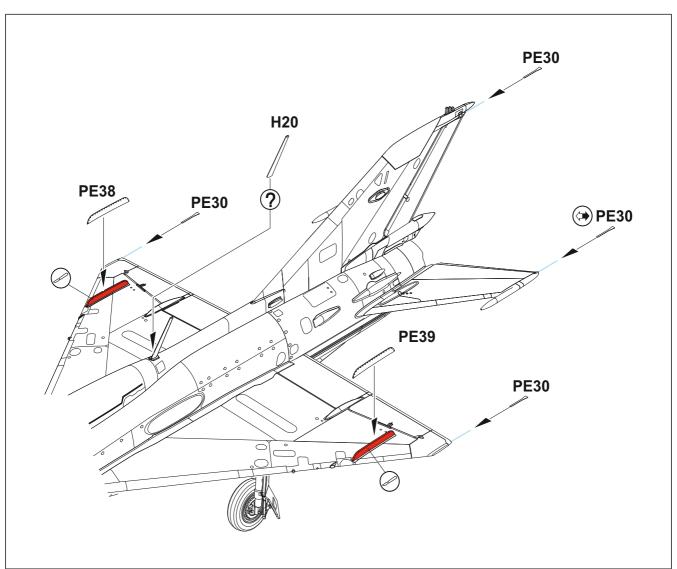


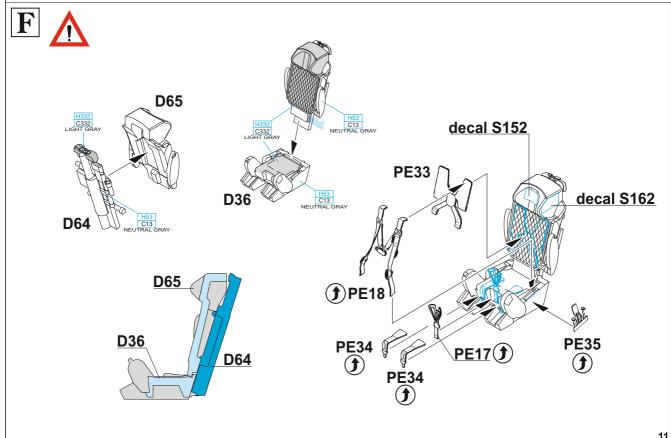


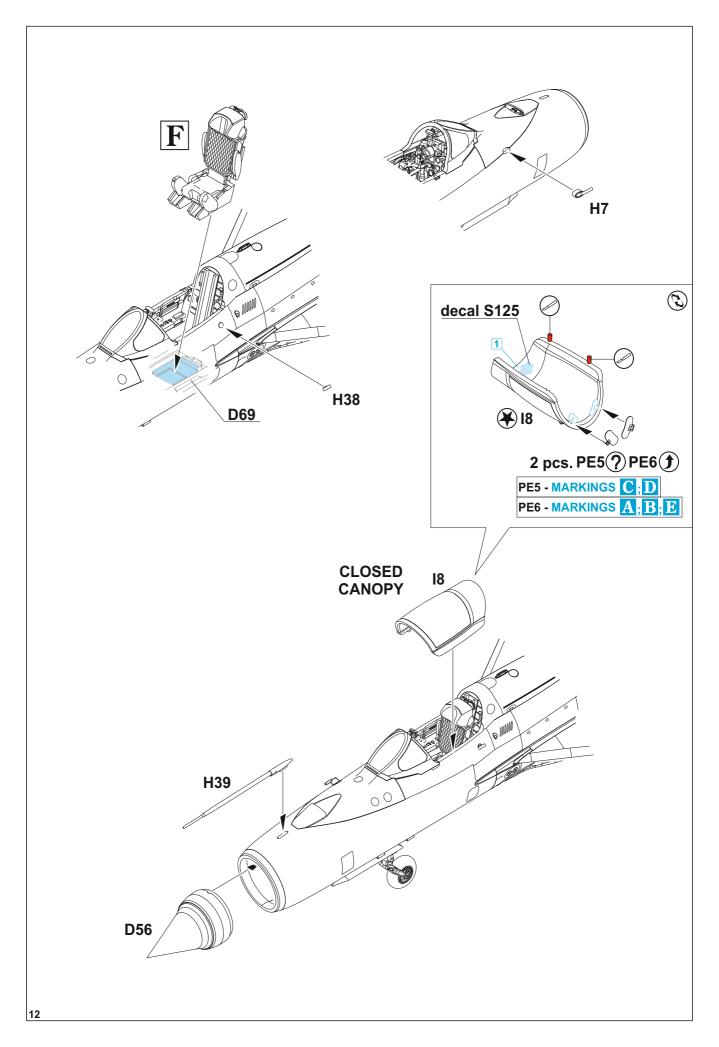


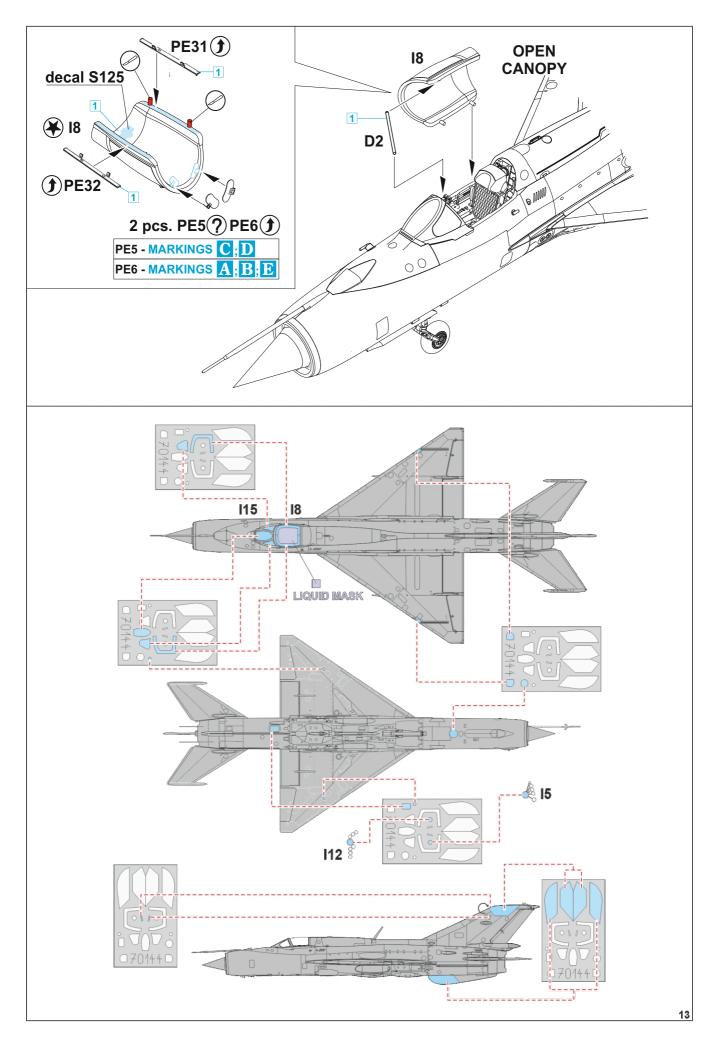


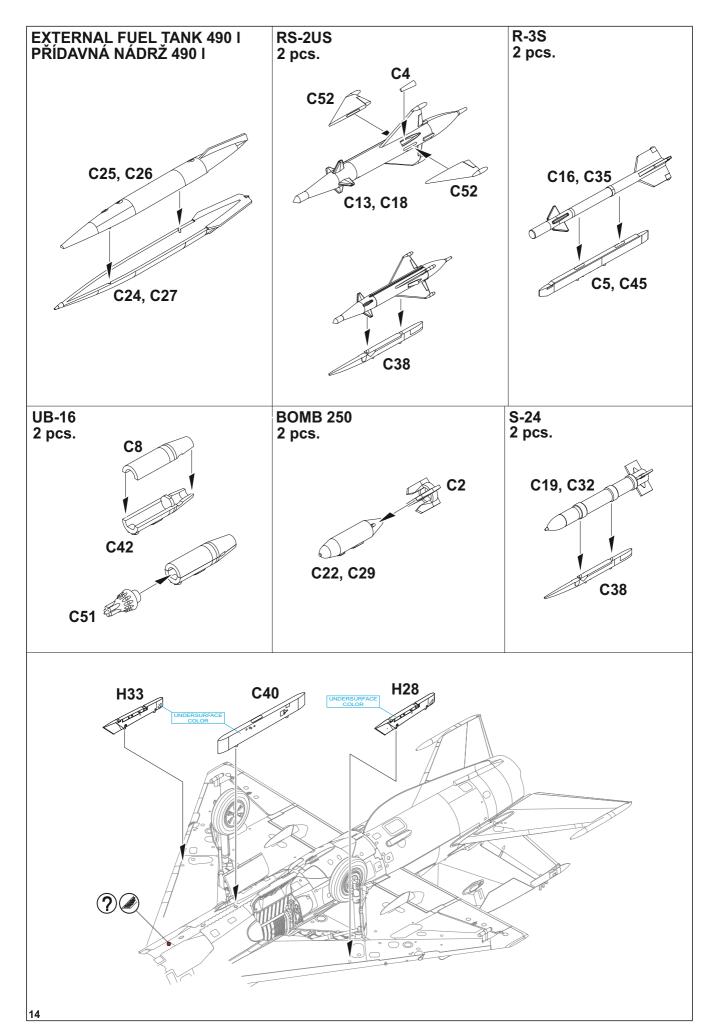






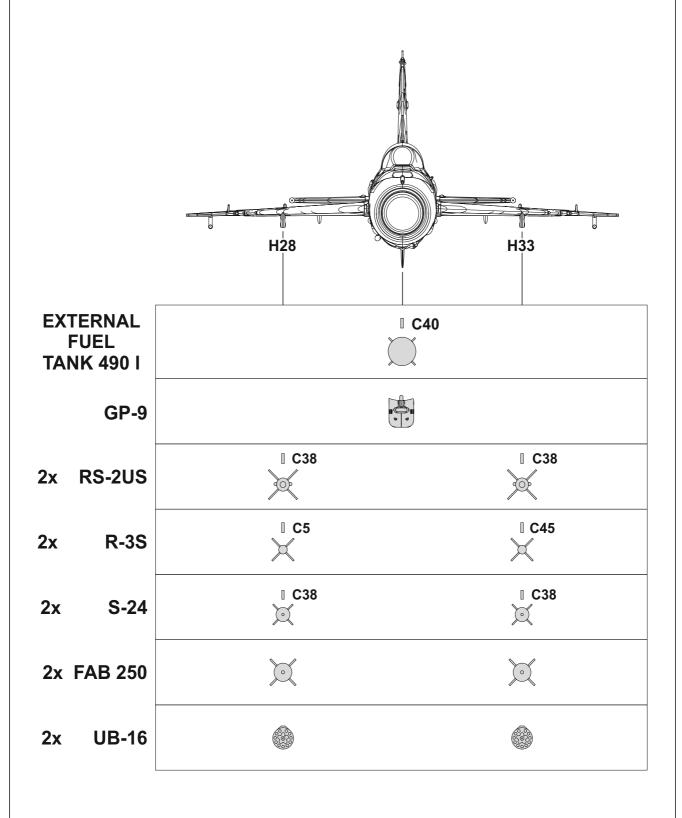






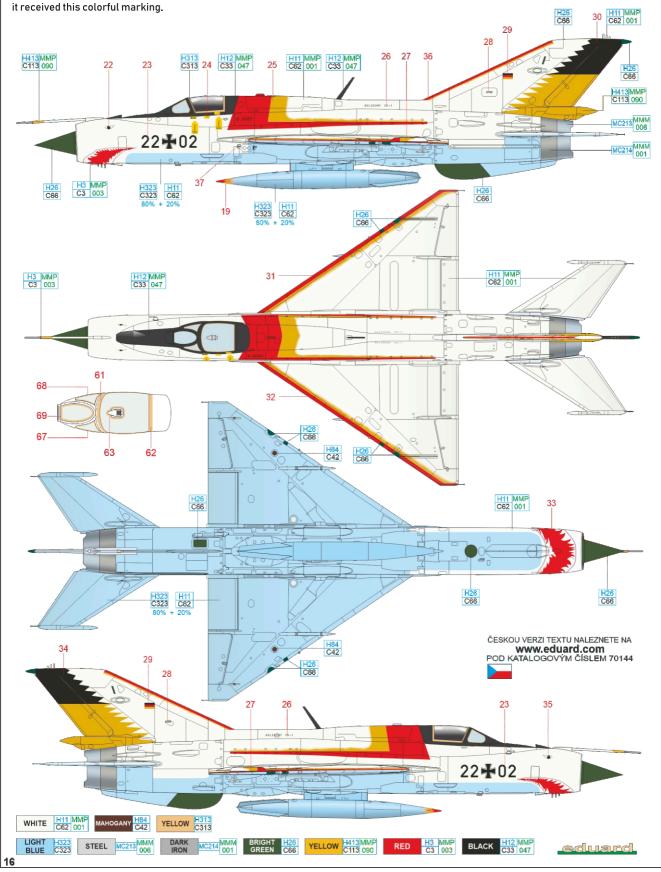
TO CHOOSE WEAPON AND EXTERNAL FUEL TANK OPTION PLEASE FOLLOW YOUR REFERENCE.

PRO VOLBU VÝZBROJE A PŘÍDAVNÝCH NÁDRŽÍ SE DRŽTE DOKUMENTACE KONKRÉTNÍHO STROJE.



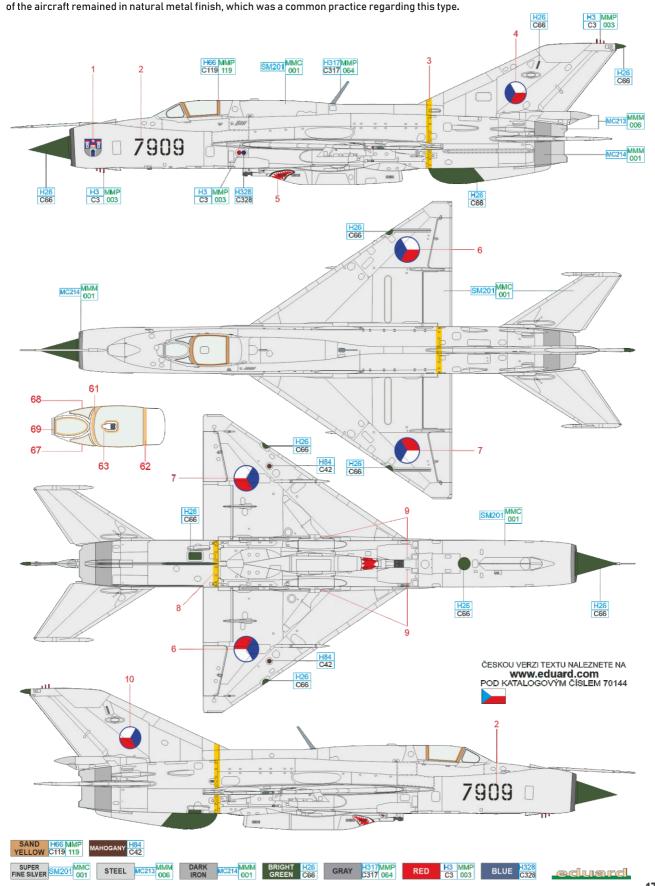
🛕 Jagdfliegergeschwader 1, Holzdorf/Drewitz Air Base, Germany, 1990–1991

This aircraft was delivered to East German Air Force (Luftstreitkräfte und Luftverteidigung der Deutschen Demokratischen Republik) in January 1968. It was given tactical number 441 and was assigned to JG 8 (Fighter Squadron No. 8). During its service it was also serving with JG 3 and JG 1. In 1990, after the reunification of Germany, with the new designation 22+02 and repainted in the anniversary colors, it was flown together with other JG 1 aircraft to Drewitz base, where it awaited its end. It was scrapped in November 1992. The upper and side surfaces were painted white, while the lower surfaces remained in light grey-blue. The white paint was complemented by distinctive elements of yellow and red, and a shark's mouth was added to the nose. The aircraft was called Der weiße Hai (the White Shark) after it received this colorful marking.



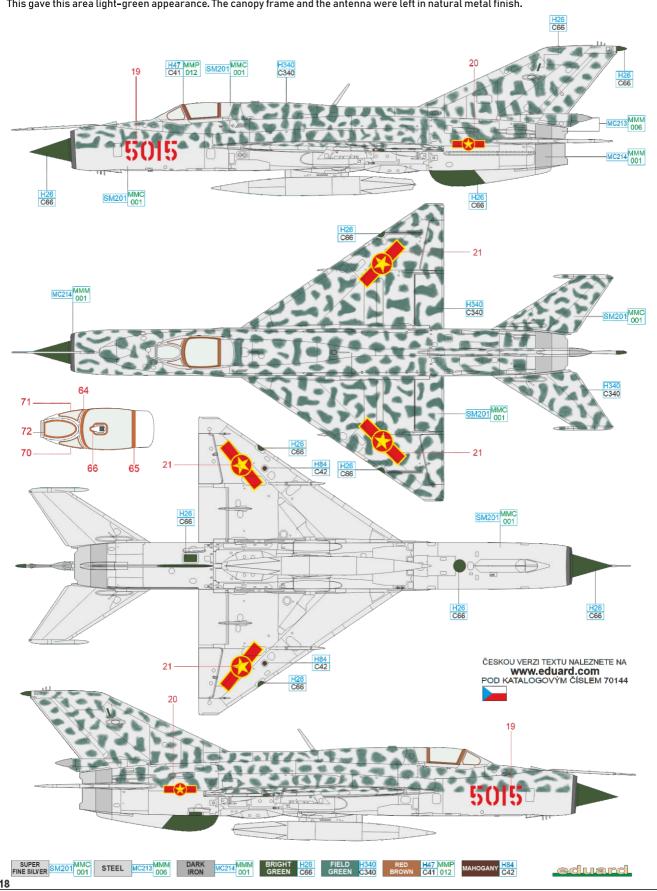
No. 7909, 11 Fighter Air Regiment, Czechoslovak Air Force, Žatec airfield, Czech and Slovak Federative Republic, March 1991

No. 7909 MiG-21PFM was delivered to Czechoslovakia on January 29, 1969. At the beginning of its service it was assigned to 9 slp (9th Fighter Air Regiment); from April 1973 served with 1 slp. From December 1982 onwards this aircraft was flown by 11 slp. It was put out of operation in March 1991 and consequently flown to the disposal site at the Vodochody airfield on March 20, 1991. The coat of arms of Žatec town was painted on the nose, the yellow band on the tail identified the aircraft which was to be put out of operation. The rest of the aircraft remained in natural metal finish which was a common practice reparding this type.



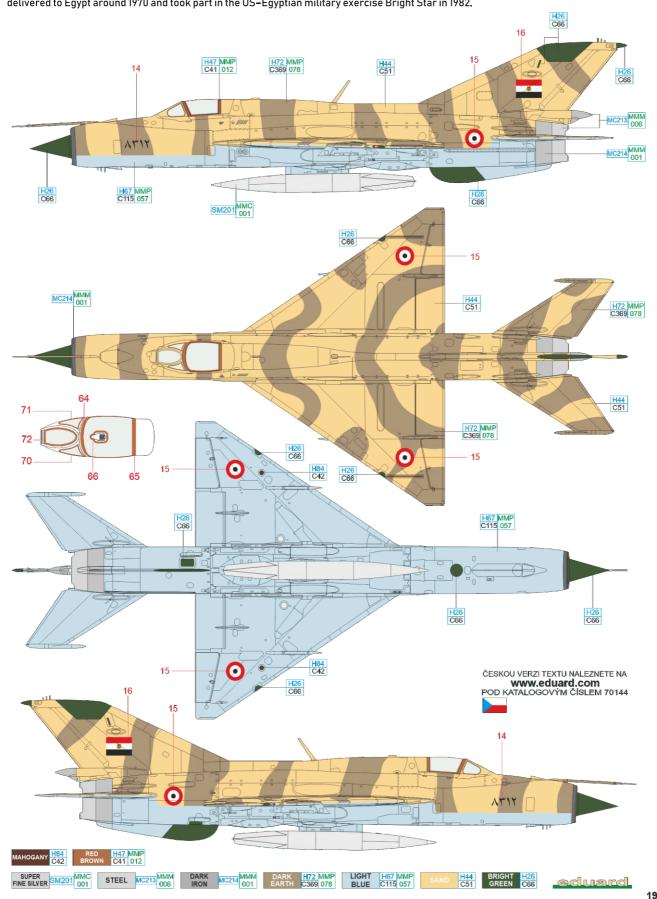
C 921 Fighter Regiment, Vietnamese People's Army Air Force, Noi Bai airfield, Democratic Republic of Vietnam, 1968

This aircraft was flown by 921 Fighter Regiment "Sao Do" (Red Star) in 1968. The first examples of MiG-21PFM were delivered to this unit during that year. Some sources say that this particular aircraft was flown by Nguyen Van Coc, a fighter ace credited with nine kills. The B&W photos of this aircraft can be interpreted in several ways. One of the theories says that green splotches were sprayed on the upper sides. The splotches were not sharp-edged, and the surrounding area was also covered by the thin layer of the green color. This gave this area light-green appearance. The canopy frame and the antenna were left in natural metal finish.



Egyptian Air Force, Inshas air base, Arab Republic of Egypt, early 80's

This aircraft is one of the few MiG-21PFMs flown by Egyptian Air Force following the Six-Day War. Prior to this Arab-Israeli conflict, total of 235 various MiG-21s were delivered to Egypt but only about ten of them survived the war. The first and surprising Israeli aerial attack on Egyptian airbases on June 5, 1967, known as the Operation Moked, cost Egyptians about 90 of their MiG-21s itself. This aircraft was delivered to Egypt around 1970 and took part in the US-Egyptian military exercise Bright Star in 1982.



No. 4410, 11 Fighter Air Regiment, Czechoslovak Air Force, Žatec airfield, Czech and Slovak Federative Republic, spring 1990

MiG-21PFM No. 4410 can be rightfully considered the most colorful aircraft of this type serving with the Czechoslovak Air Force. The aircraft was delivered to Czechoslovakia in November 1966 and served first with 9 slp (9th Fighter Air Regiment), later with 8 slp and, finally, with 11 slp. There the 4410 received the painting on the ridge and vertical tail surfaces made in blue, white and red, i.e., in the national colors on the occasion of the honorary title "Invasion" bestowed on the unit on May 5, 1991. Later, the diagonal stripes behind the cockpit received white, five-pointed stars. The yellow band around the fuselage was an indication that this aircraft was to be scrapped and the only flight to be done in this form occurred on March 19, 1993. That was the day the aircraft was flown to Vodochody airfield to the storage place.

