

INFO **EDUARD**

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STŘÍBRNÉ ŠÍPY

eduard

INFO **EDUARD**

ČÍSLO 52

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Editorial and Graphics - Marketing department, Eduard - Model Accessories, Ltd.

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Col. Milan Simr

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November 2014



EDITORIAL

Well, guys, who visited e-day last weekend will surely agree that was the best e-day ever. If you think I'm like a wine producer highlighting each branch of wine like the best, well, take it that, add some traditional weaknesses like the darkness in some corners or the car exhaust smell and you do have a very traditional mix of minds about the e-day. We will fight with the darkness adding more lights next year, what to do with exhaust is unclear, probably nothing is possible except move the show, what we don't want, at least not for the next year. The main entrance jam was successfully eliminated, some lines were in Eduard stand especially



morning, which was caused by the Silver Arrows run in Saturday morning. Silver Arrows were great, with great response from modelers, our personal help by the Silver Arrow corner was welcomed and useful. The sales was nice, the first batch was mostly done in two hours, than we re-supplied everything available from our home base, and it was then enough until end of the show. I'm pretty sure it was fun for eve-

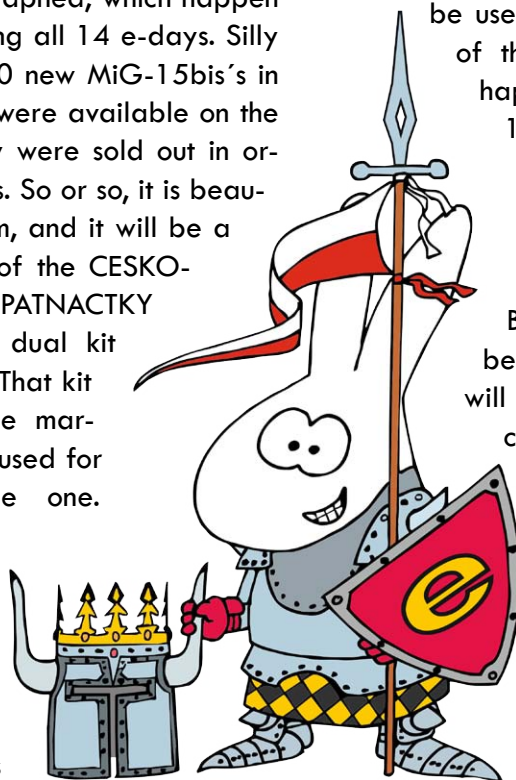


ryone who was there and who bought the kit, mixing his own, often unique, mix of the versions. Also the meeting with the author of the book and with the MiG pilots was a pleasant event, as well as the Pot or all the workshops, there was nothing boring. The biggest surprise for me was how many rabbits were sketched by Jan Bobek on the show - 90 pictures during two days, and 10k CZK fundraised for the war veterans fund. Our team was finely photographed, which happen first time during all 14 e-days. Silly was that 1000 new MiG-15bis's in 1/144 scale were available on the entrance, they were sold out in order of minutes. So or so, it is beautiful small gem, and it will be a perfect part of the CESKO-SLOVENSKÉ PATNACTKY 1/144 scale dual kit in December. That kit will follow the marking schemes used for 1/72nd scale one. For more information and plenty of pictures check the e-day section in today's newsletter. So e-day is gone, let's concentrate on the other events. The first on



is the IRON BUNNY, the contest of the four-members teams in 24 hours build of the model. Which kit will be use is secret until start of the fight, which will happen on October 16th, 2014 in Bublava by Sokolov, Czech Republic.

The second event will be NOVEMBERFEST on November 28, 2014. There will be just marginal changes in the days schedule comparing it with last year one, we can't keep the store and sales department due it was moved out of company, but, the store will be accessible on Friday afternoon, and there will be even a shuttle available



on the track Obrnice – Most - Obrnice. The ticket will be more expensive this year, sorry for this, but it was necessary, trust me.

Concerning new releases, the Silver Arrows are number one in October. The related products helping the owners will be released even in the closest months, like the separate stencils for all the version, There will be Siemens Schuckert D.III released in November, MiG-21PF and re-edition of the Good Morning, Da Nang in December, the first F-104G will follow in January and Yak-1/1b in the Limited Edition in 1/48th scale comes in February together with Avia B-534 in 1/72nd scale. You can easily see there are plenty of new kits to be released and to look forward to them. Right now, read and study our newsletter and find all these exciting news.

Keep modelling!

Vladimir Sulc



M4A1 Sherman

1/35 **ProfiPACK**
edition



- ⊗ ProfiPACK edition, Cat. No. 3716
- ⊗ plastic parts Asuka / Tasca
- ⊗ photo-etched sets

recommended:

eduard
BRASSIN

- ⊗ M2 Browning 1/35 (Brassin)
Cat. No. 635001

BUY M4A1 Sherman 1/48



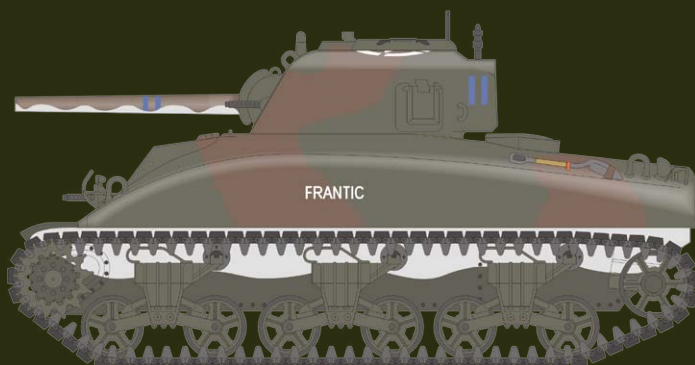
66th Armored Regiment, 2nd Armored Division, June, 1944



5th Army, Italy, Summer, 1944



3rd Battalion, 66th Armored Regiment, 2nd Armored Division,
Normandy, June, 1944



13th Armored Regiment, 1st Armored
Division, Anzio, Italy, March, 1944

WEEKEND

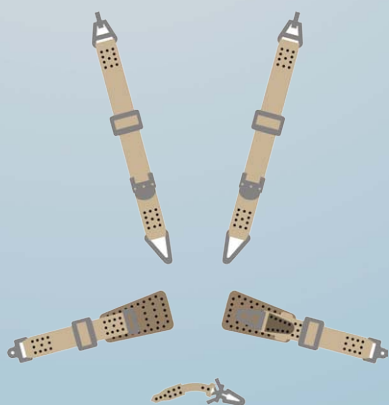
edition

190A-8

1/48, Cat. No. 84120



- 2 markings
- SUPERFABRIC seatbelts



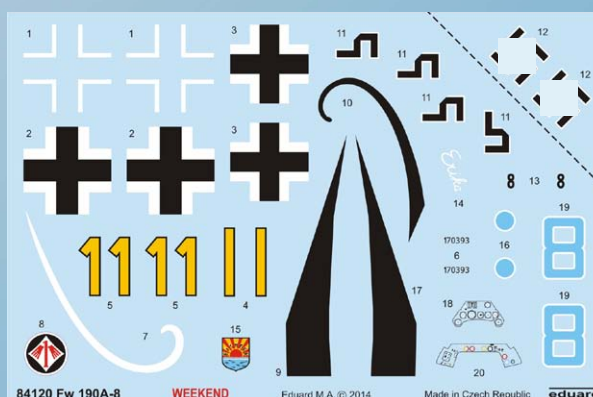
BUY 190A-8 1/48



Alfred Bindseil, 6./JG 1, Störmede, Germany, Spring 1944



'Erika', IV./JG 5, Herdla, Norway, Spring, 1945



RECOMMENDED:

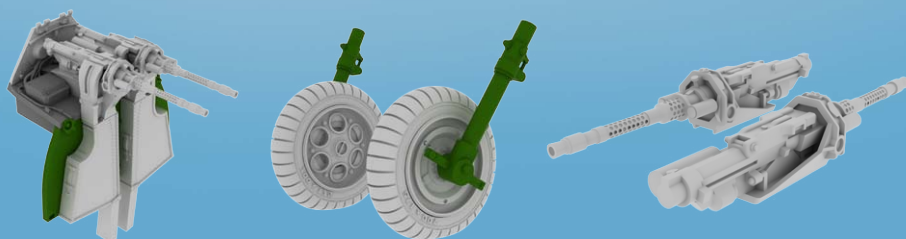
648065 MG 131 for Fw 190 (Brassin)

648070 MG 131 mount for Fw 190A/F (Brassin)

648152 Fw 190 wheels early (Brassin)

D48012 Fw 190A stencils (decals)

BIG4874 Fw 190A-8 1/48 (PE-sets BIGED)



MiG-15

1/72, Cat. No. 7423

WEEKEND
edition

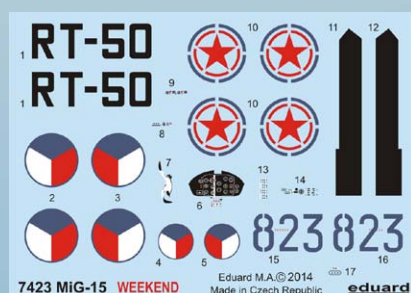


- 2 markings
- SUPERFABRIC seatbelts

MiG-15, 3rd Squadron of the 47th pzlp (Recce Regiment),
Mlada airbase, Czechoslovakia, 1954 – 1957



MiG-15, c/n 108023, 176th IAP, Antung Air Base, Korea, April 1951



BUY MiG-15 1/72

RECOMMENDED:

672021 MiG-15 airbrakes (Brassin)

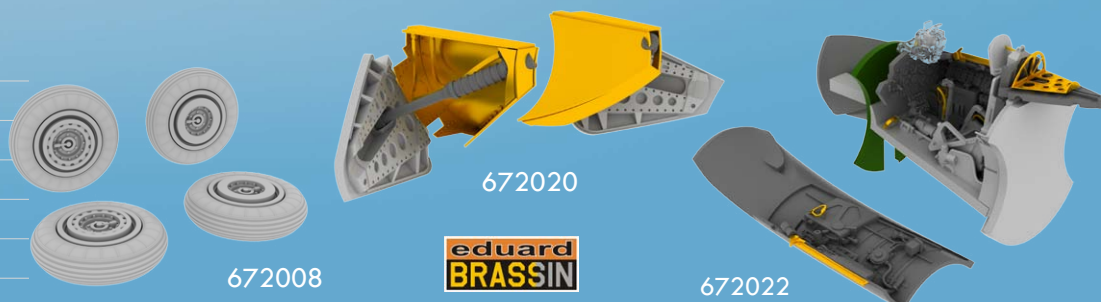
672022 MiG-15 cockpit (Brassin)

672008 MiG-15 seat (Brassin)

672007 MiG-15 wheels (Brassin)

72575 MiG-15/ MiG-15bis exterior (fotolept)

72574 MiG-15 landing flaps (fotolept)



LIMITED EDITION 1/48

Cat. No. 1187



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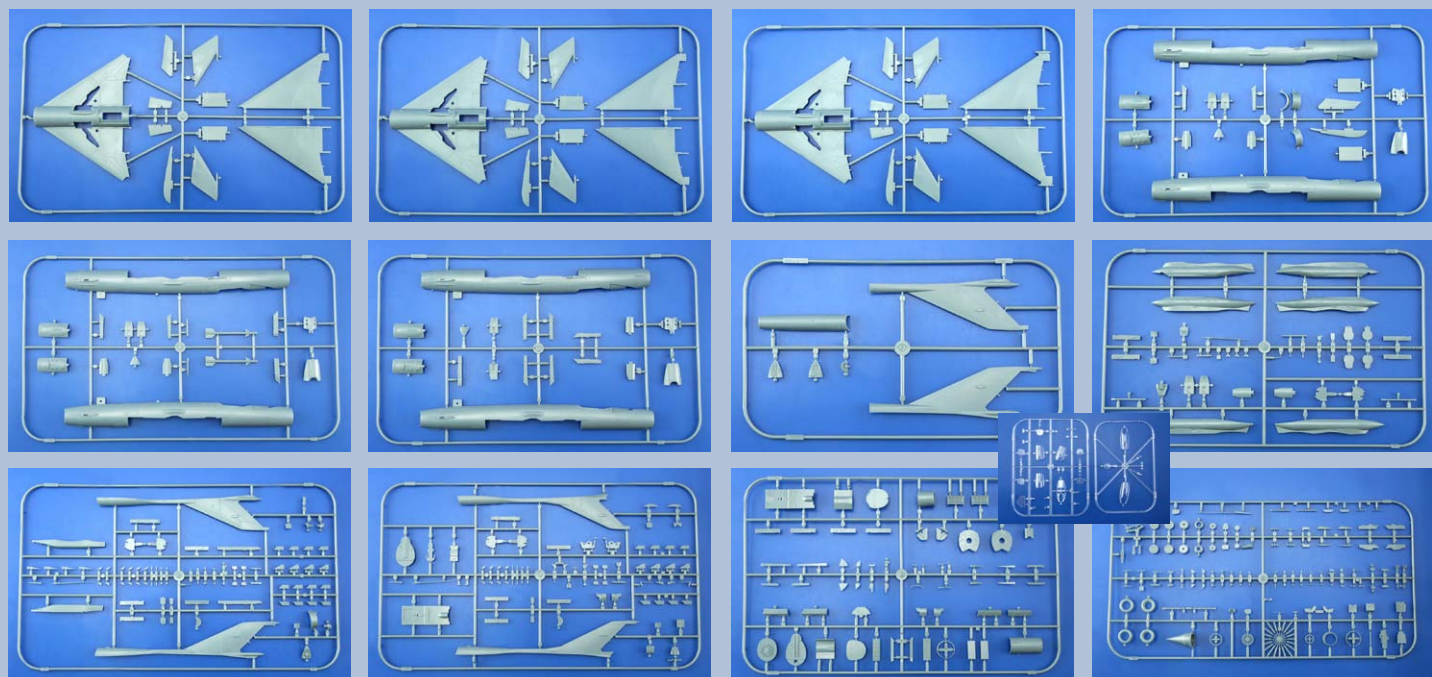
Exclusive Limited Edition of MiG-21PF, PFM, R in 1/48 scale. Completely new release of sprues for for MiG-PF variant.

- plastic parts: Eduard
- No. of decal options: 32
- Decals: Cartograf, stencils - Eduard
- PE parts: yes, color
- painting mask: yes
- book (in Czech, 88 pages) about MiG-21 PF, PFM and R by Martin Janousek
- full color instructions

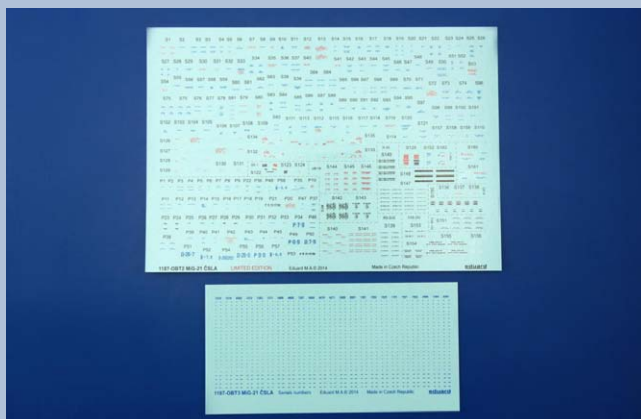
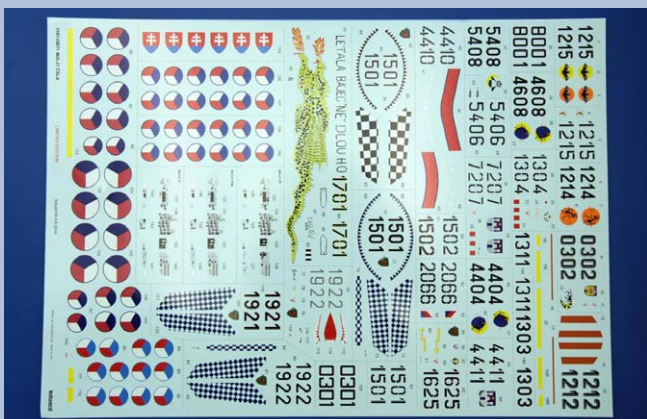


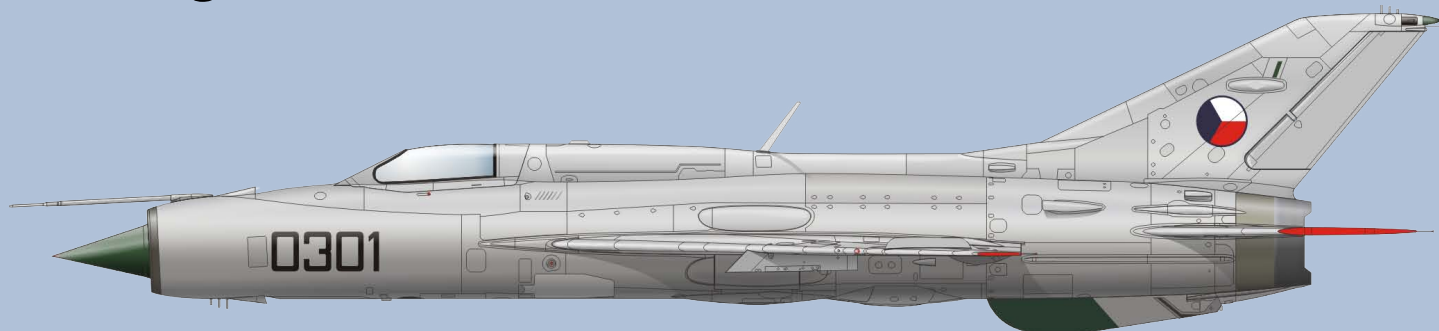
BUY Stříbrné šípy 1/48

sprues

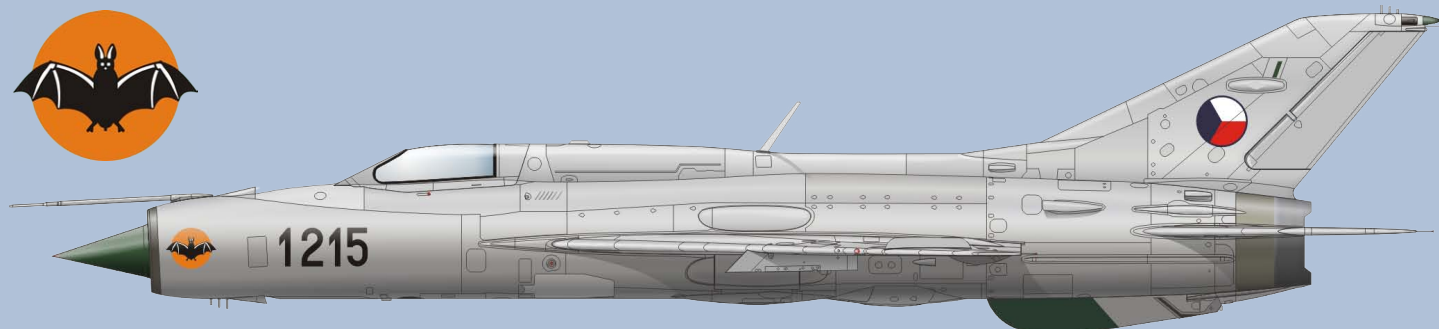


decals

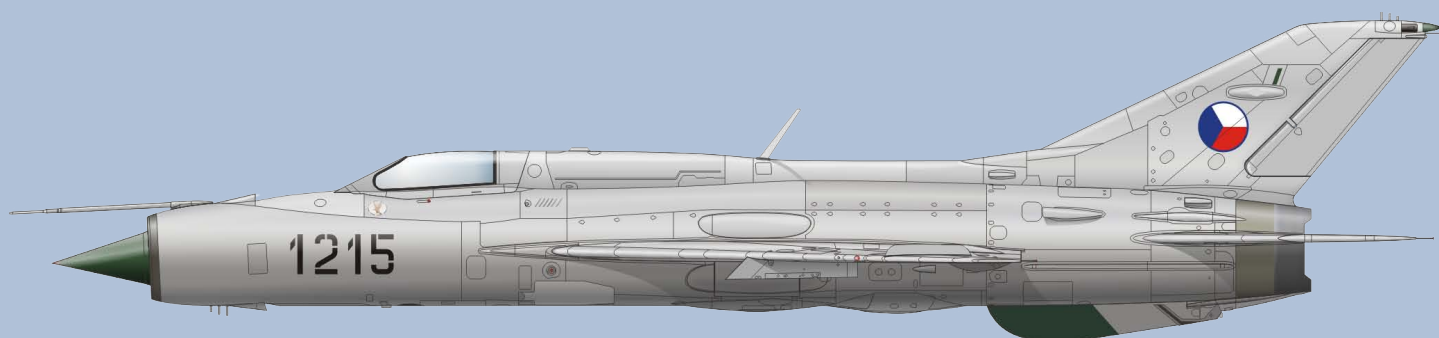




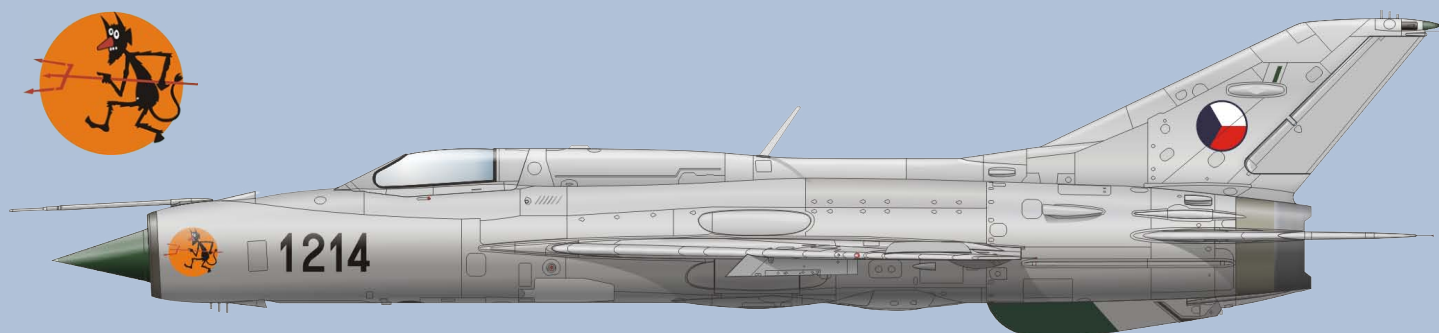
1. MiG-21PF, 0301, 1. slp, České Budějovice, June/July, 1971



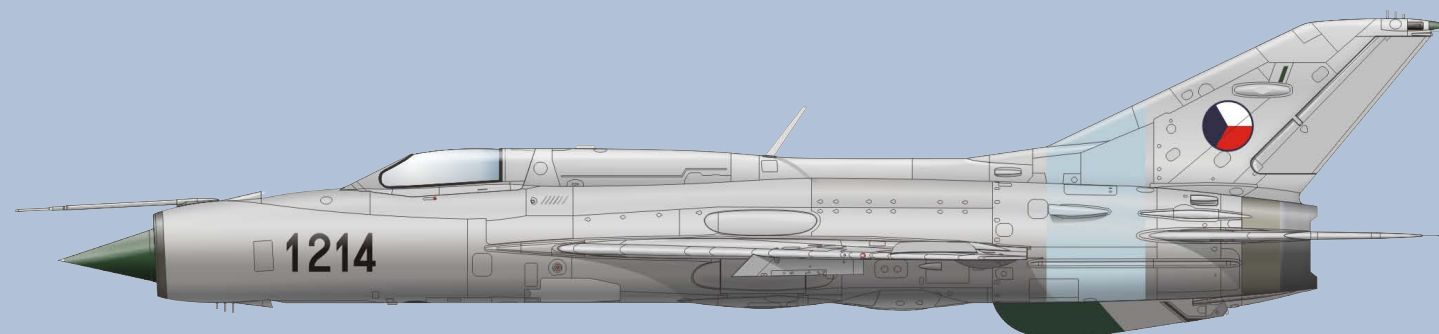
2. MiG-21PF, 1215, 1. slp, 2. letka, České Budějovice, 1968 - 1969



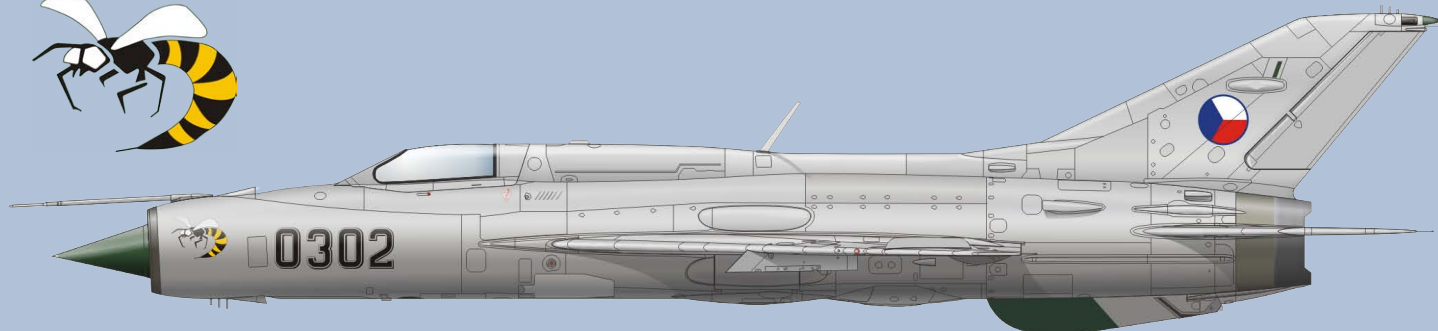
3. MiG-21PF, 1215, 8. slp, 3. letka, Brno, Spring 1989



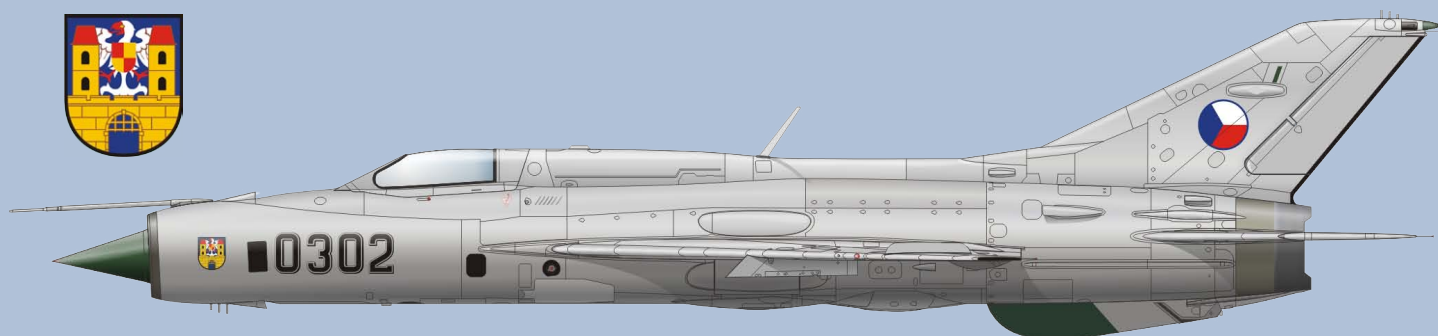
4. MiG-21PF, 1214, 1. slp, 2. letka, České Budějovice, 1969 - 1970



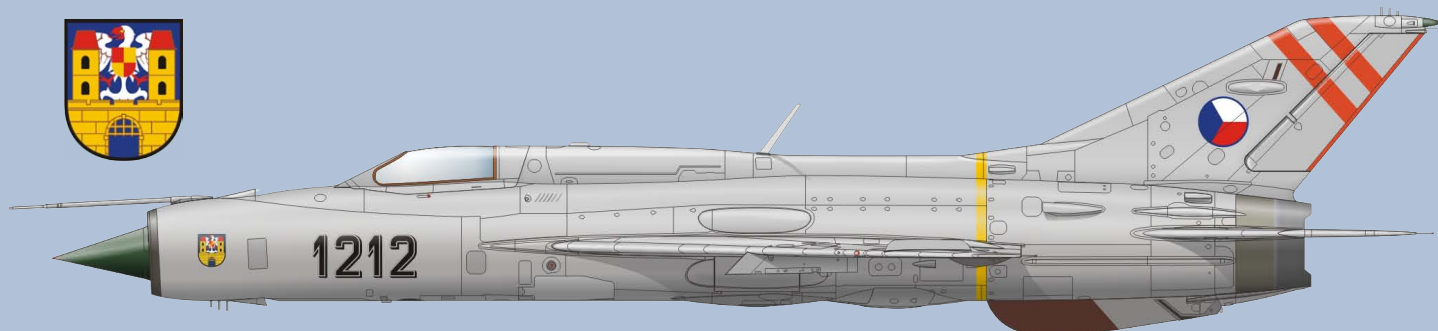
5. MiG-21PF, 1214, 1. slp, 2. letka, Všechno u Tábora, June/July, 1971



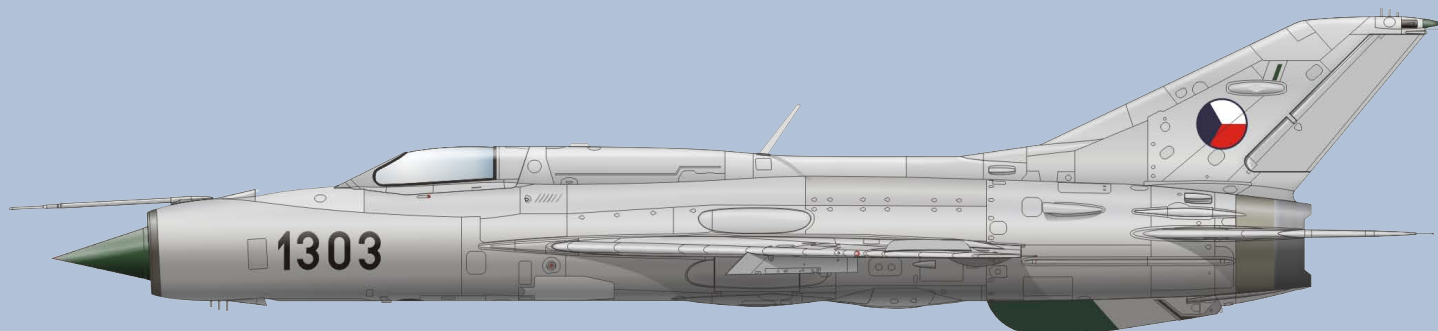
6. MiG-21PF, 0302, 9. slp, 2. letka, Bechyně, 1986



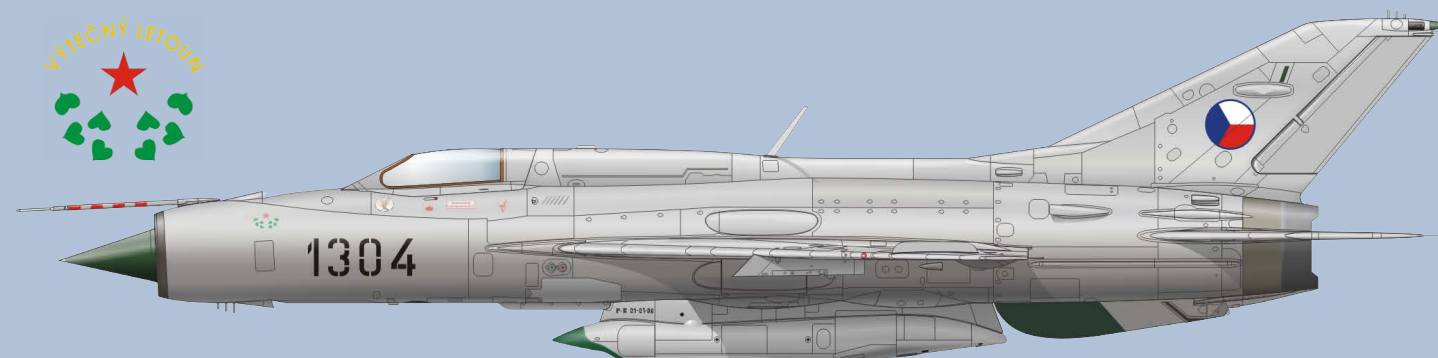
7. MiG-21PF, 0302, 9. slp, 2. letka, Bechyně, 1988



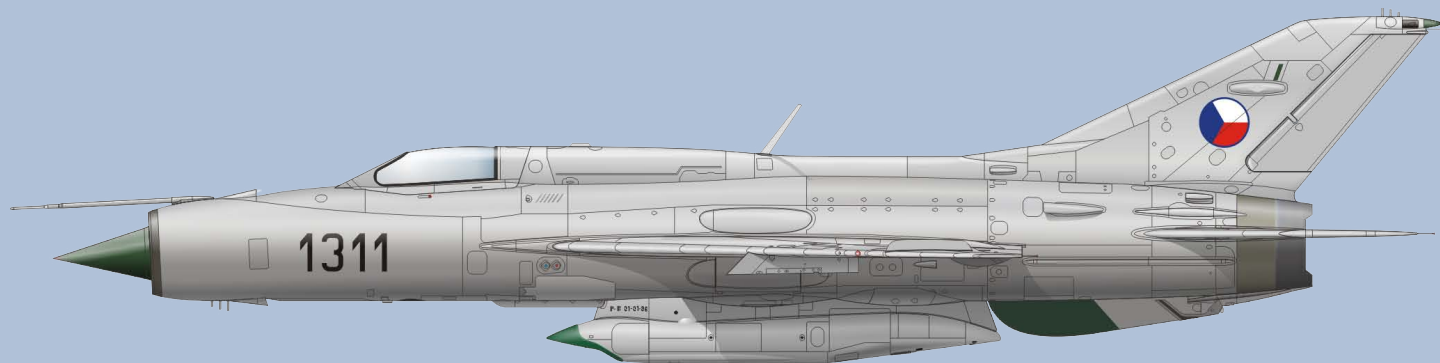
8. MiG-21PF, 1212, 1. slp, 2. letka, Bechyně, 1988



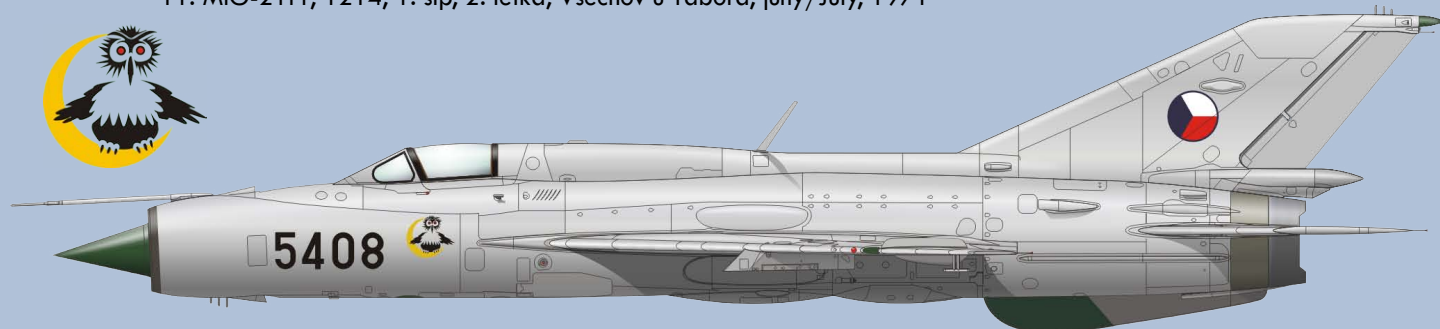
9. MiG-21PF, 1303, 11. slp, 3. letka, Žatec, 1968



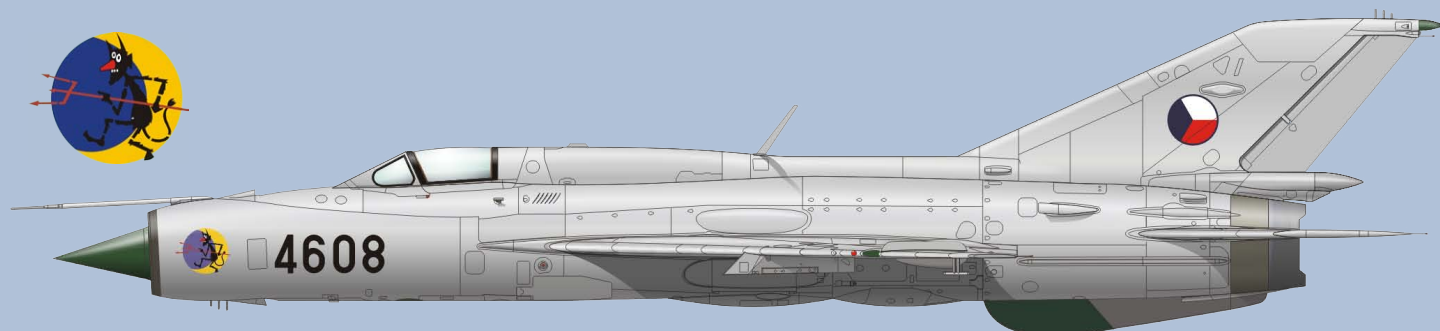
10. MiG-21PF, 1304, 8. slp, 2. letka, Brno, Spring 1989



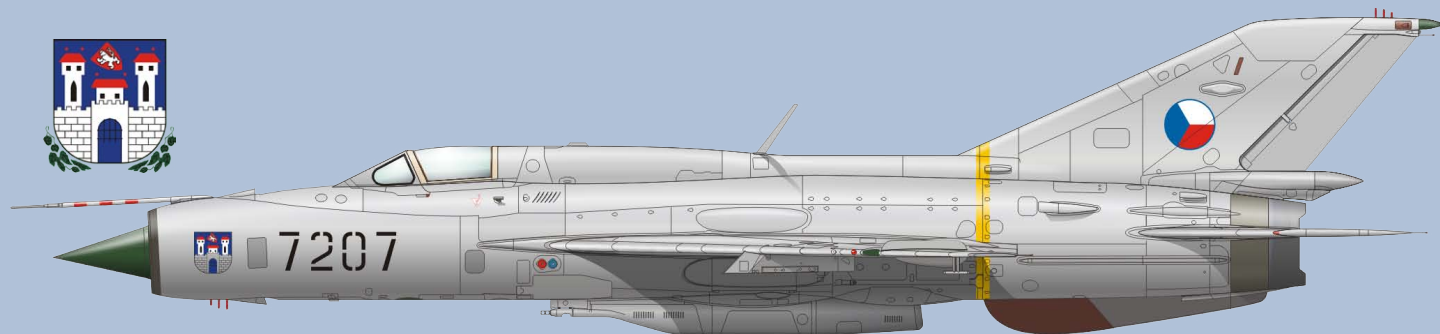
11. MiG-21PF, 1214, 1. slp, 2. letka, Všechnov u Tábora, juny/July, 1971



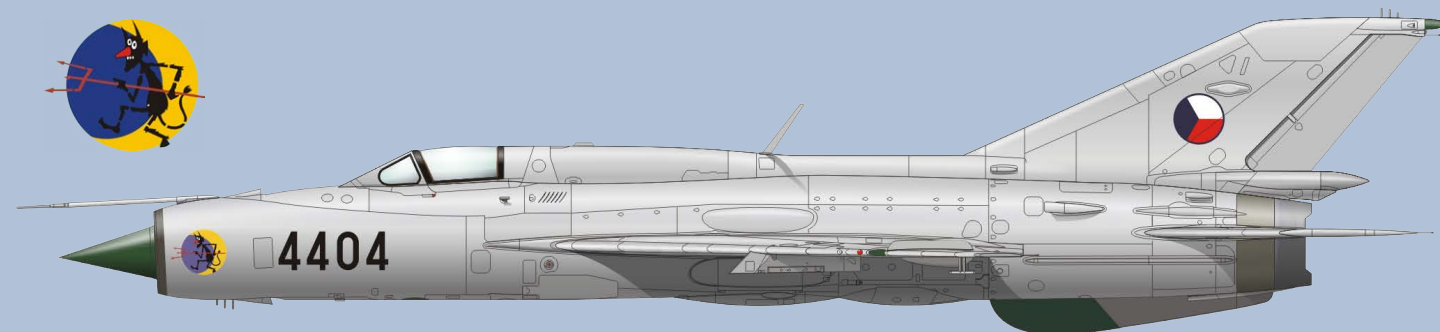
12. MiG-21PFM, 5408, 1. slp, 3. letka, České Budějovice, 1968 - 1969



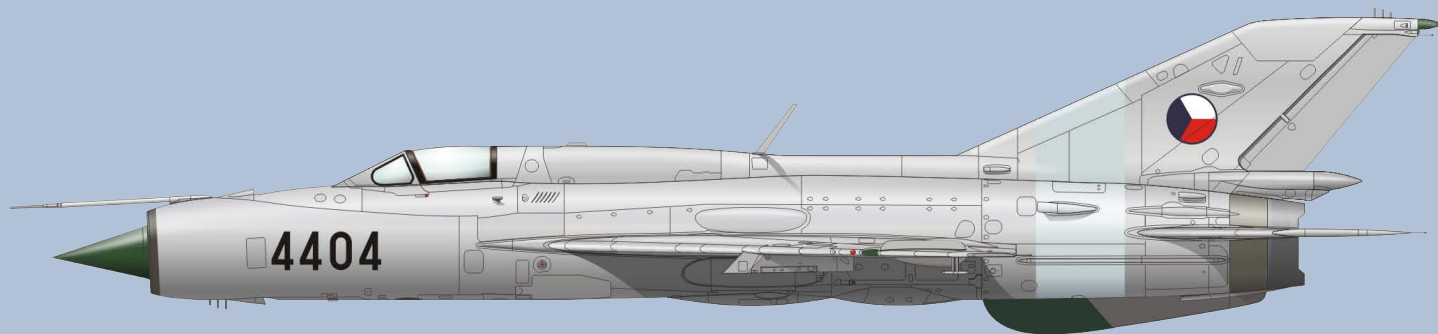
13. MiG-21PFM, 4608, 1. slp, 3. letka, České Budějovice, 1969 - 1970



14. MiG-21PFM, 7207, 11. slp, 3. letka, Žatec, 1987 - 1991



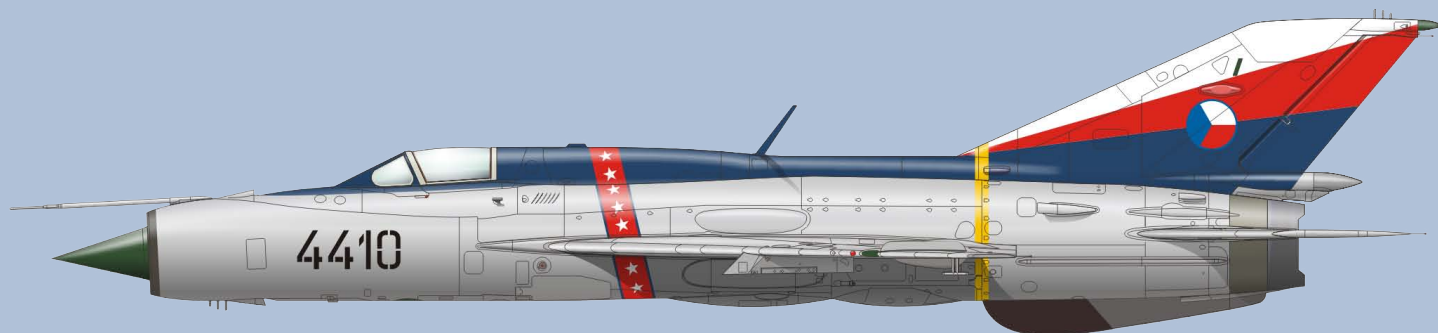
15. MiG-21PFM, 4404, 1. slp, 3. letka, České Budějovice, 1969 - 1970



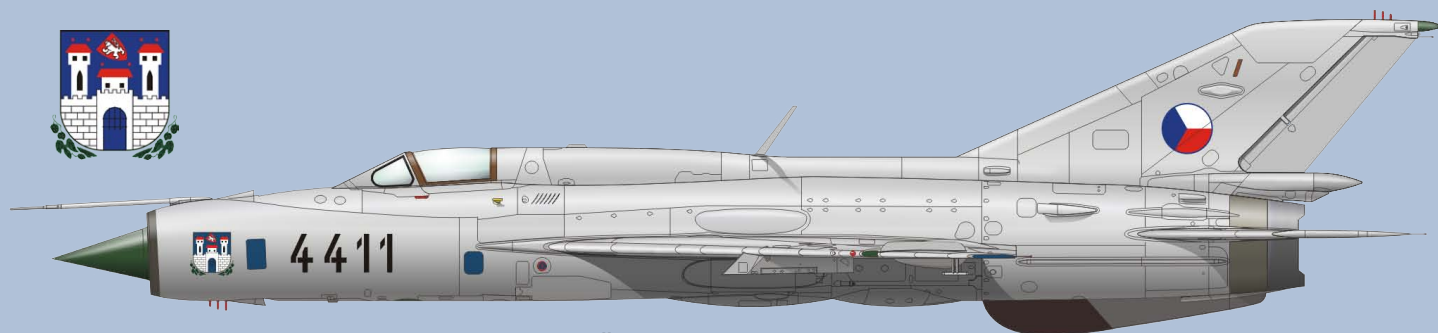
16. MiG-21PFM, 4404, 1. slp, 3. letka, Všechny u Táboru, Juny/July, 1971



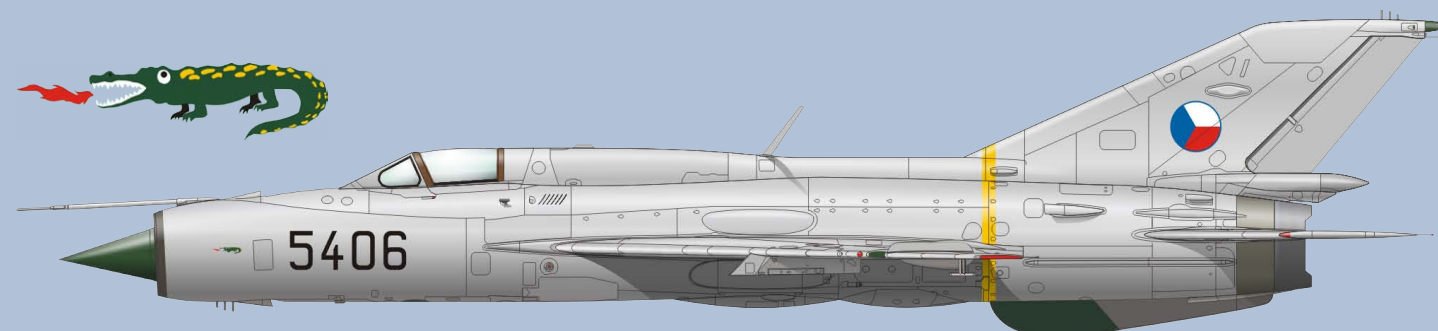
17. MiG-21PFM, 4410, 11. slp, 3. letka, Žatec, Spring, 1990



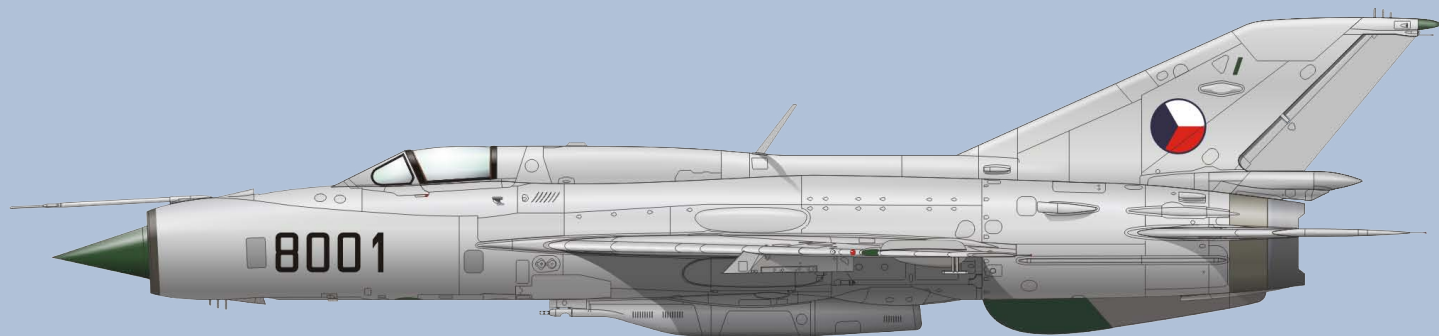
18. MiG-21PFM, 4410, 11. slp, 3. letka, Žatec, Spring 1990



19. MiG-21PFM, 4411, 11. slp, 2. letka, Žatec, 1987 - 1991



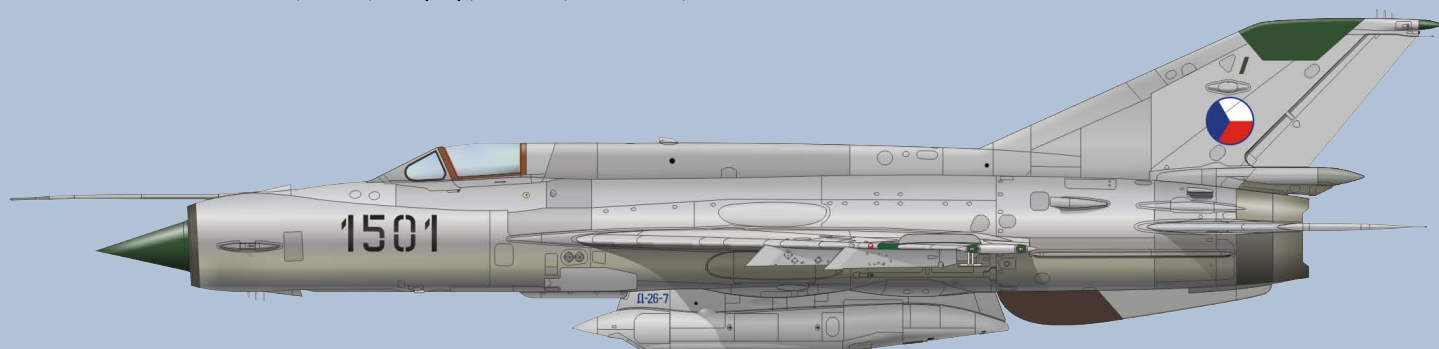
20. MiG-21PFM, 5406, 8. slp, 1. letka, Brno, Autumn 1987



21. MiG-21PFM, 8001, 9. slp, 3. letka, Bechyně, 1968



22. MiG-21R, 1501, 47. pzlp, 1. letka, Pardubice, 1969 - 1975



23. MiG-21R, 1501, 47. pzlp, 1. letka, Pardubice, 1976



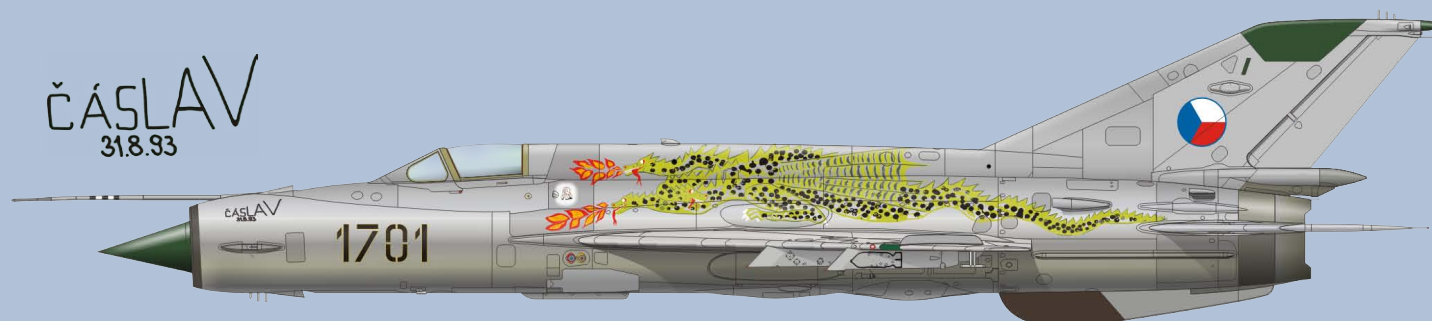
24. MiG-21R, 1501, Letecký zkušební odbor (Air Testing Department), Čáslav, 1994



25. MiG-21R, 1502, 3. sbolp, 2. letka, Malacky, Spring 1993



26. MiG-21R, 1625, 28. sbolp, 3. letka, Čáslav, Spring, 1994



27. MiG-21R, 1701, 28. sbolp, 3. letka, Čáslav, 31 August 1993



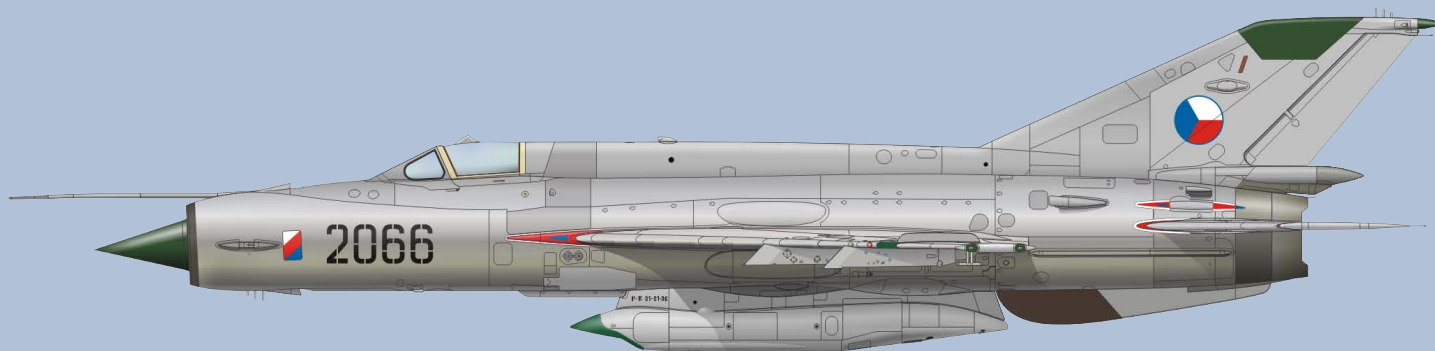
28. MiG-21R, 1921, 47. pzlp, 1. letka, Pardubice, 1969-1975



29. MiG-21R, 1922, 47. pzlp, 1. letka, Pardubice, 1969-1975



30. MiG-21R, 1922, 47. pzlp, 2. letka, Hradec Králové, Summer, 1992



31. MiG-21R, 2066, 28. sbolp, 3. letka, Čáslav, Spring 1994



32. MiG-21R, 1922, 3. sbolp, 2. letka, Malacky, Summer, 1994

book



STŘÍBRNÉ ŠÍPY

by Martin Janoušek

MiG-21 PF/PFM/R in Czech Service

(full color, 88 pages, in Czech language)

**BOOK IS NOT AVAILABLE
SEPARATELY!**



A)
1187



BASIC SCALE KIT STŘÍBRNÉ ŠÍPY
cat. no. 1187

- plastic parts for 1 scale kit (either MiG-21PF or PFM or R)
- photo-etched details for 1 scale kit (either MiG-21PF or PFM or R)
- painting mask (MiG-21PF/PFM/R) for 1 scale kit
- decals for 32 marking options PF/PFM/R, stencils
- instruction sheet & marking options schemes
- publication Stříbrné šípy (does not contain bombs and missiles plastic parts)

B)
8244X



OVERTREES MiG-21PF
cat. no. 8244X

- plastic parts for 1 scale kit (MiG-21PF)
- bombs and missiles plastic parts

Packed in white box

C)
8239X



OVERTREES MiG-21PFM
cat. no. 8239X

- plastic parts for 1 scale kit (MiG-21PFM)
- bombs and missiles plastic parts

Packed in white box

D)
8243X



OVERTREES MiG-21R
cat. no. 8243X

- plastic parts for 1 scale kit (MiG-21R)
- bombs and missiles plastic parts
- sprue with reconnaissance containers

Packed in white box

E)
8245X



OVERTREES MiG-21 SMALL PARTS
cat. no. 8245X

- sprues with small parts for 1 scale kit
(not possible to build complete kit from these sprues)

Packed in white box

F)
8246X



OVERTREES MiG-21 BOMBS & MISSILES,
cat. no. 8246X

- sprues with bombs and missiles plastic parts

Packed in white box

X)
1159X



STŘÍBRNÉ ŠÍPY - EMPTY BOX
cat. no. 1159X

(DOESN'T CONTAIN plastic parts nor photo-etched parts)

Contains:

- decal sheet with 32 marking options PF/PFM/R, stencils
- instruction sheet & marking options schemes
- painting mask (MiG-21PF/PFM/R)
- publication Stříbrné šípy

Packed in full color box

Q)
8236 LEPT

MiG-21PF
PE-set
OVERLEPT

MiG-21**PF**
photo-etched parts,
cat. no. 8236 PE set

S)
8239 LEPT

MiG-21PFM
PE-set GREY
OVERLEPT

MiG-21**PFM**
(for grey interior)
photo-etched parts,
cat. no. 8239 PE set

U)
1187-MASK

MiG-21
PF/PFM/R
MASK

MiG-21**PF/PFM/R**
painting mask
cat. no. 1187-MASK

R)
8237 LEPT

MiG-21PFM
PE-set
OVERLEPT

MiG-21**PFM**
photo-etched parts,
cat. no. 8237 PE set

T)
8238 LEPT

MiG-21R
PE-set
OVERLEPT

MiG-21**R**
photo-etched parts,
cat. no. 8238 PE set

eduard

Basic examples of component combination

A
1187



= option to build one complete scale kit of MiG-21 PF or PFM or R (plastic parts, photo-etched parts and painting mask), with decal sheet for 32 marking options, the instruction sheet and the publication, without bombs and missiles plastic parts

A
1187

E
8245X

E
8245X

R
8238 LEPT

T
8237 LEPT



+



+



+



+



= option to build three complete scale kits of MiG-21 PF, PFM and R, with decal sheet for 32 marking options, the instruction sheet and the publication, without bombs and missiles parts (parts can be optionally purchased (F))

X
1159X

B
8244X

C
8239X

D
8243X

Q
8236 LEPT

R(S)
8237 LEPT
(8239 LEPT)

T
8237 LEPT



+



+



+



+



+



+



= best option of using the EMPTY box with plastic and photo-etched parts and painting mask for all three MiG-21 variants
 = three complete scale kits (MiG-21 PF, PFM and R) including the bombs and missiles plastic parts, with decal sheet for 32 marking options, the instruction sheet and the publication

X
1159X

D
8243X

T
8237 LEPT



+



+



= plastic and photo-etched parts for one complete scale kit of **MiG-21R**, including mask, decal sheet for 32 marking options, instruction sheet and publication

X
1159X



+

B
8244X



+

Q
8236 LEPT



= plastic and photo-etched parts for one complete scale kit of **MiG-21PF**, including painting mask, decal sheet for 32 marking options, instruction sheet and publication

X
1159X



+

C
8239X



+

R
8237 LEPT



= plastic and photo-etched parts for one complete scale kit of **MiG-21PFM** with **green interior**, including painting mask, decal sheet for 32 marking options, instruction sheet and publication

X
1159X



+

C
8239X



+

S
8239 LEPT



= plastic and photo-etched parts for one complete scale kit of **MiG-21PFM** with **grey interior**, including painting mask, decal sheet for 32 marking options, instruction sheet and publication

recommended:

BRASSIN	648026	MiG-21 wheels
	648030	MiG-21 seat late
	648031	MiG-21 seat early
	648049	MiG-21 wheel wells
	648080	MiG-21 undercarriage legs BRONZE
	648110	MiG-21 PFM wheels
	648111	MiG-21 PFM interior
	648117	MiG-21 PF/PFM exhaust nozzle
	648129	MiG-21 R interior
	648144	MiG-21 PF interior
	648145	MiG-21 PF ejection seat
	648146	MiG-21 PF/PFM/R airbrakes
	648185	MiG-21 PFM interior - grey
	SIN64810	MiG-21 PFM 1/48
	SIN64815	MiG-21 PF/PFM/R WEAPONS SET
PE-SETS	48783	MiG-21 PFM
	48790	MiG-21 PFM accessories
	49658	MiG-21 PFM interior
	49655	MiG-21 PFM Weekend
	48794	MiG-21 R exterior
	48704	MiG-21 ladder
	49065	MiG-21 KM-1 seatbelts FABRIC
MASKS	EX403	MiG-21 PFM Weekend 1/48
	EX337	MiG-21 MF 1/48 Weekend



T-SHIRT

LIMITED EDITION

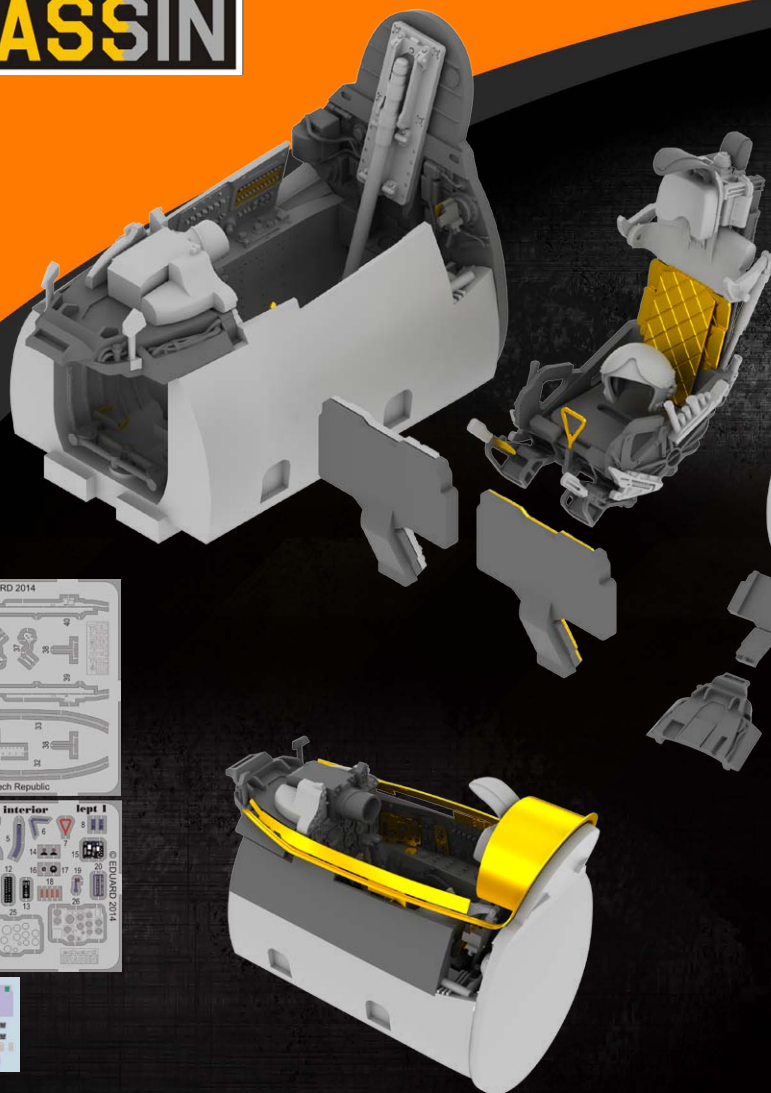
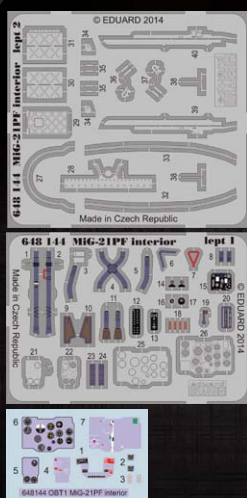
FULLCOLOR ARTWORK COTTON T-SHIRT (BY REZAVA VRTULE)
(SIZE: M, L, XL, XXL, XXXL)

WITH KIT No. 1187 ON EDUARD STORE ONLY!

648144
MiG-21PF interior
1/48 Eduard

Detailed cockpit for MiG-21PF in 1/48 by Eduard. Contains cockpit with the side panels, seat, 3 versions of dashboard, gunsight made of clear resin, pedals, rudder, ZSh-5 helmet. Photo-etched details and decals included.

RECOMMENDED FOR
STŘÍBRNÉ ŠÍPY

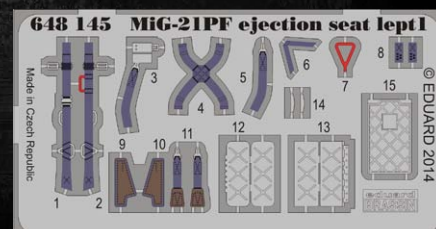
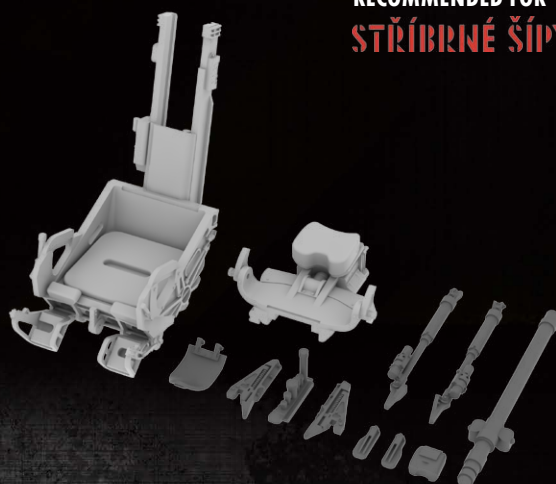
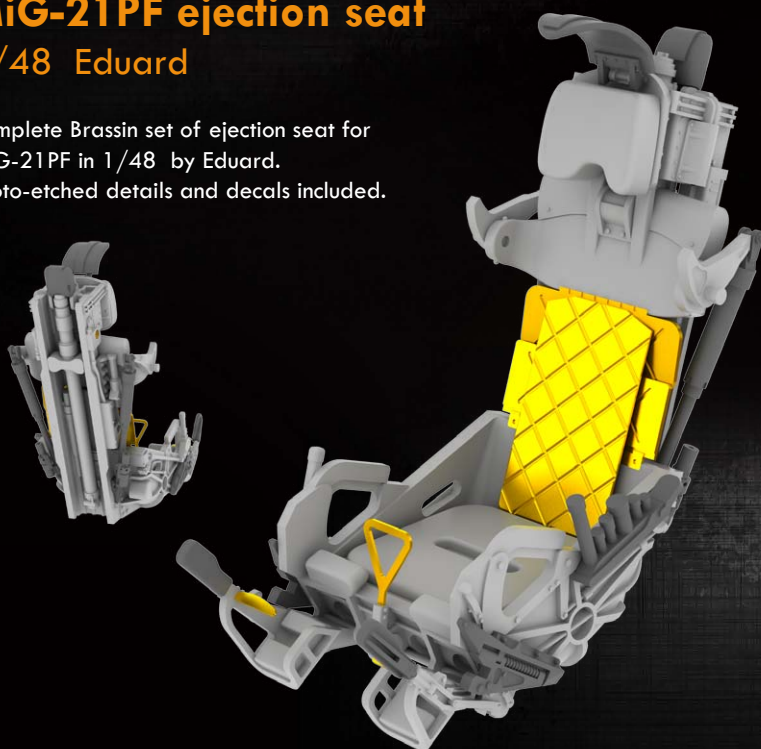


BUY MiG-21PF interior 1/48

648145
MiG-21PF ejection seat
1/48 Eduard

Complete Brassin set of ejection seat for MiG-21PF in 1/48 by Eduard. Photo-etched details and decals included.

RECOMMENDED FOR
STŘÍBRNÉ ŠÍPY



BUY MiG-21PF ejection seat 1/48

648146

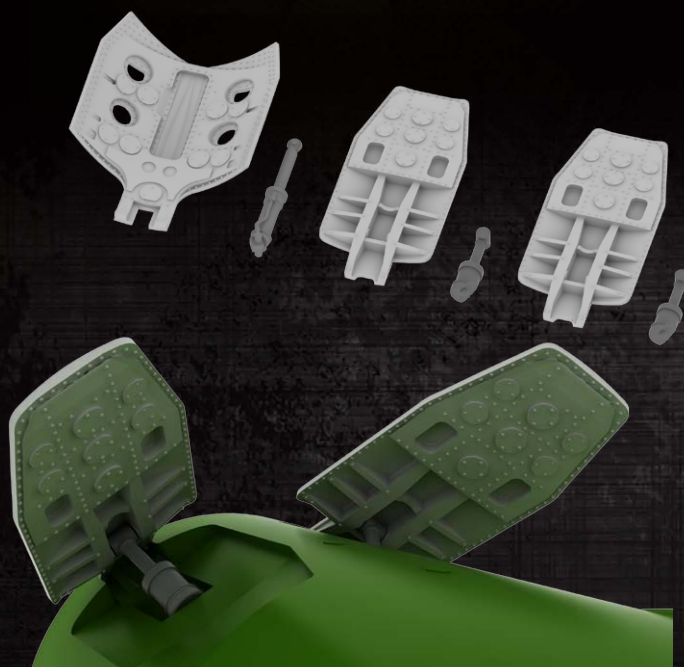
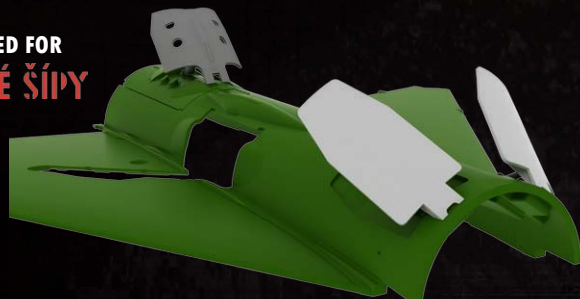
MiG-21PF/PFM/R airbrakes

1/48 Eduard

Detail set of airbrakes for MiG-21PF/PFM/R
1/48 by Eduard. Contains complete airbrakes
with hydraulics.

Photo-etched details and decals included.

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BUY MiG-21PF/PFM/R airbrakes 1/48

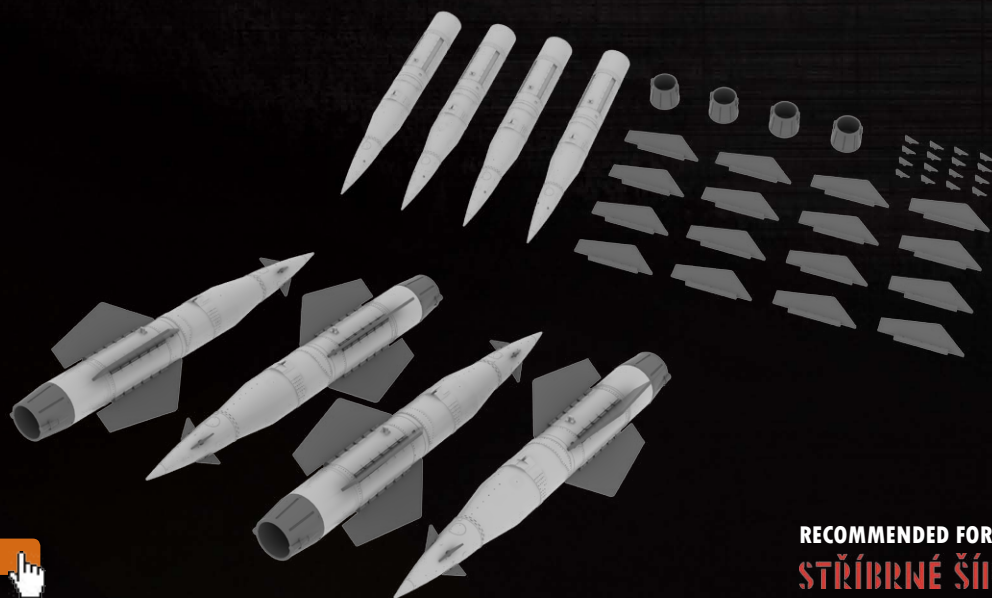
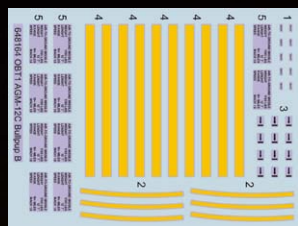
648164

AGM-12C Bullpup B

1/48

Brassin set of 4 air-to-ground AGM-
-12C Bullpup B rockets in 1/48.

Decals included.



BUY AGM-12C Bullpup B 1/48

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648173

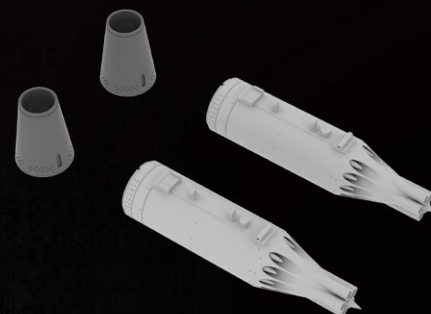
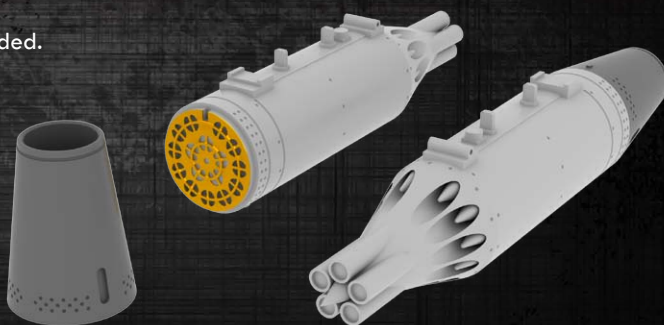
UB-16 rocket launcher

1/48

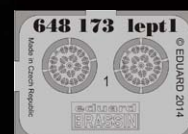
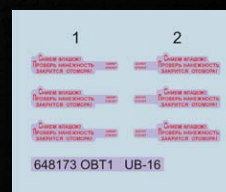
Brassin set of 2 pieces of UB-16 rocket launchers
in 1/48.

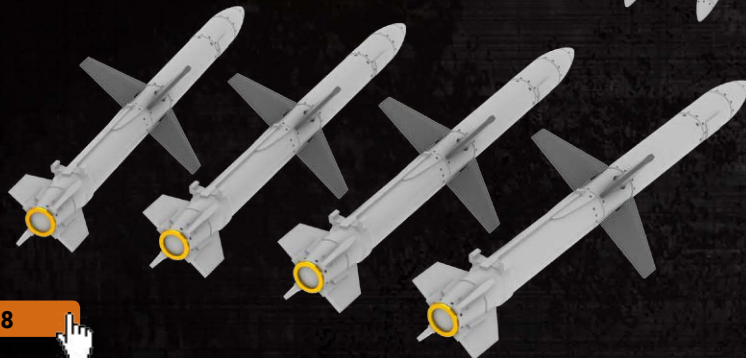
Photo-etched details included.

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BUY UB-16 rocket launcher 1/48





BUY AGM-45 Shrike 1/48

672046 —
C-47 wheels
 1/72 Airfix

672046



BUY C-47 wheels 1/48

672047 **F-16CJ Block 50 ejection seat**
1/72 Tamiya

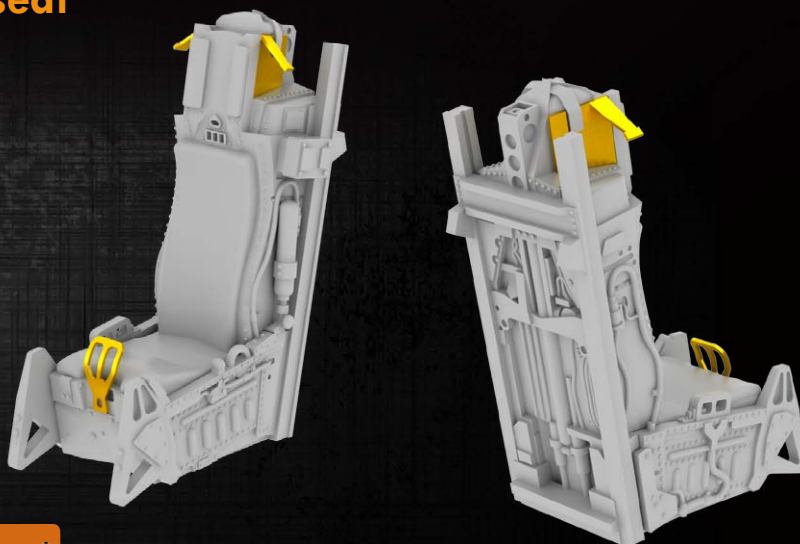
672 047 lept 1

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1 2 3 4 5 6 7

eduard
BRASS N



BUY F-16CJ Block 50 ejection seat 1/72

SIN64815

MiG-21PF/PFM/R WEAPONS SET**1/48**

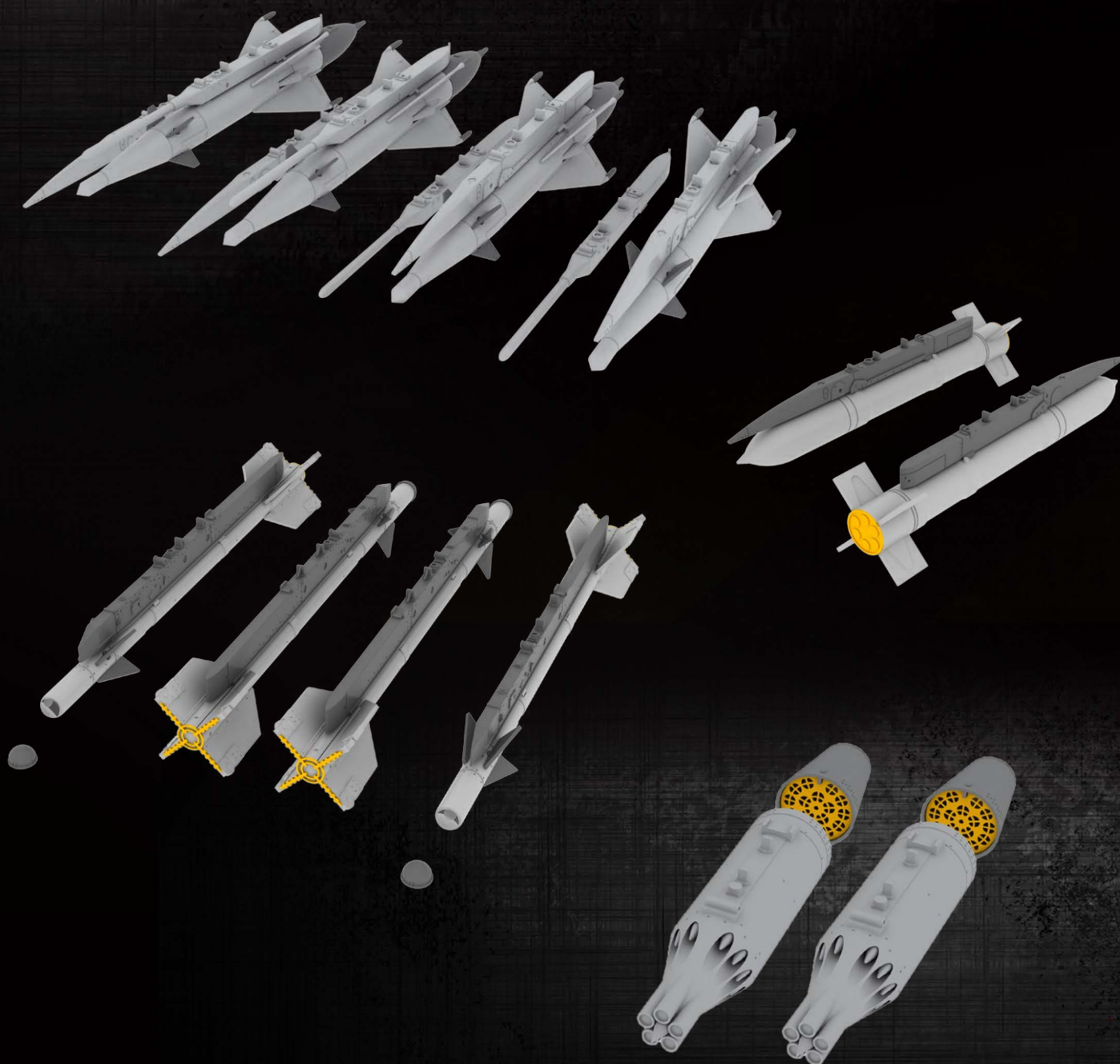
Collection of 4 individual weapon sets for MiG-21PF/
PFM/R in 1/48.

- RS-2US / AA-1 Alkali (4 pieces)
- R-3S / AA-2 Atoll-A (4 pieces)
- S-24 rocket (2 pieces)
- UB-16 rocket launcher (2 pieces)

All sets included in this BIG SIN are available separately,
but with every BIG SIN set you save up to 30%.



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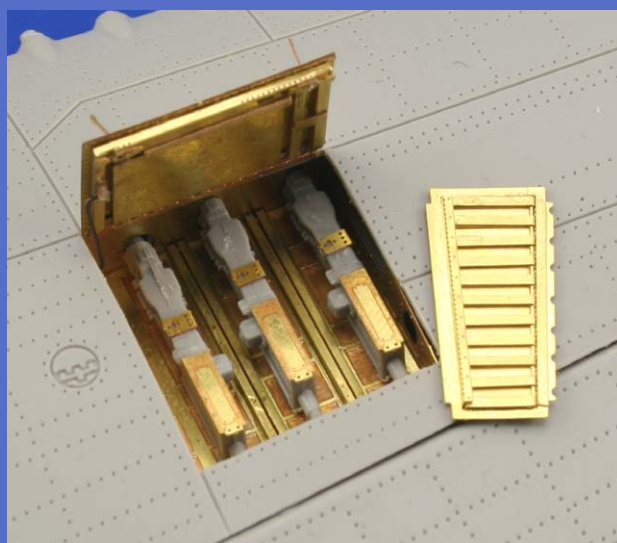
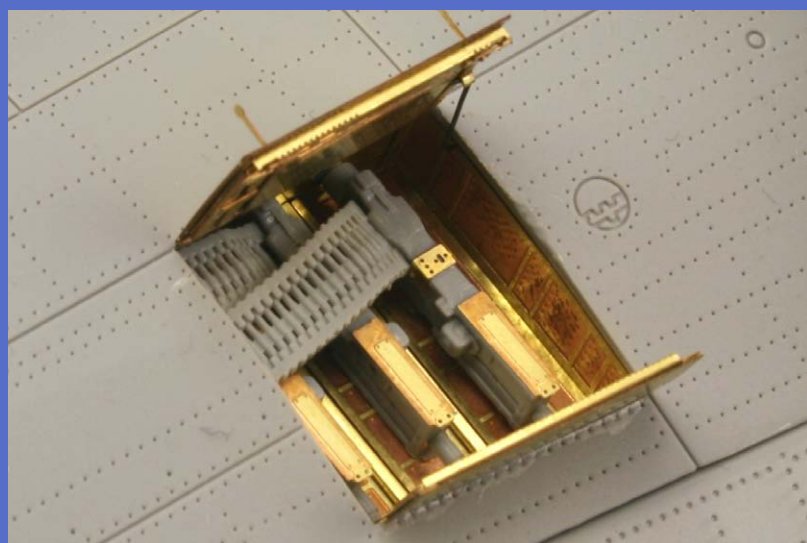
BUY MiG-21PF/PFM/R WEAPONS SET 1/48



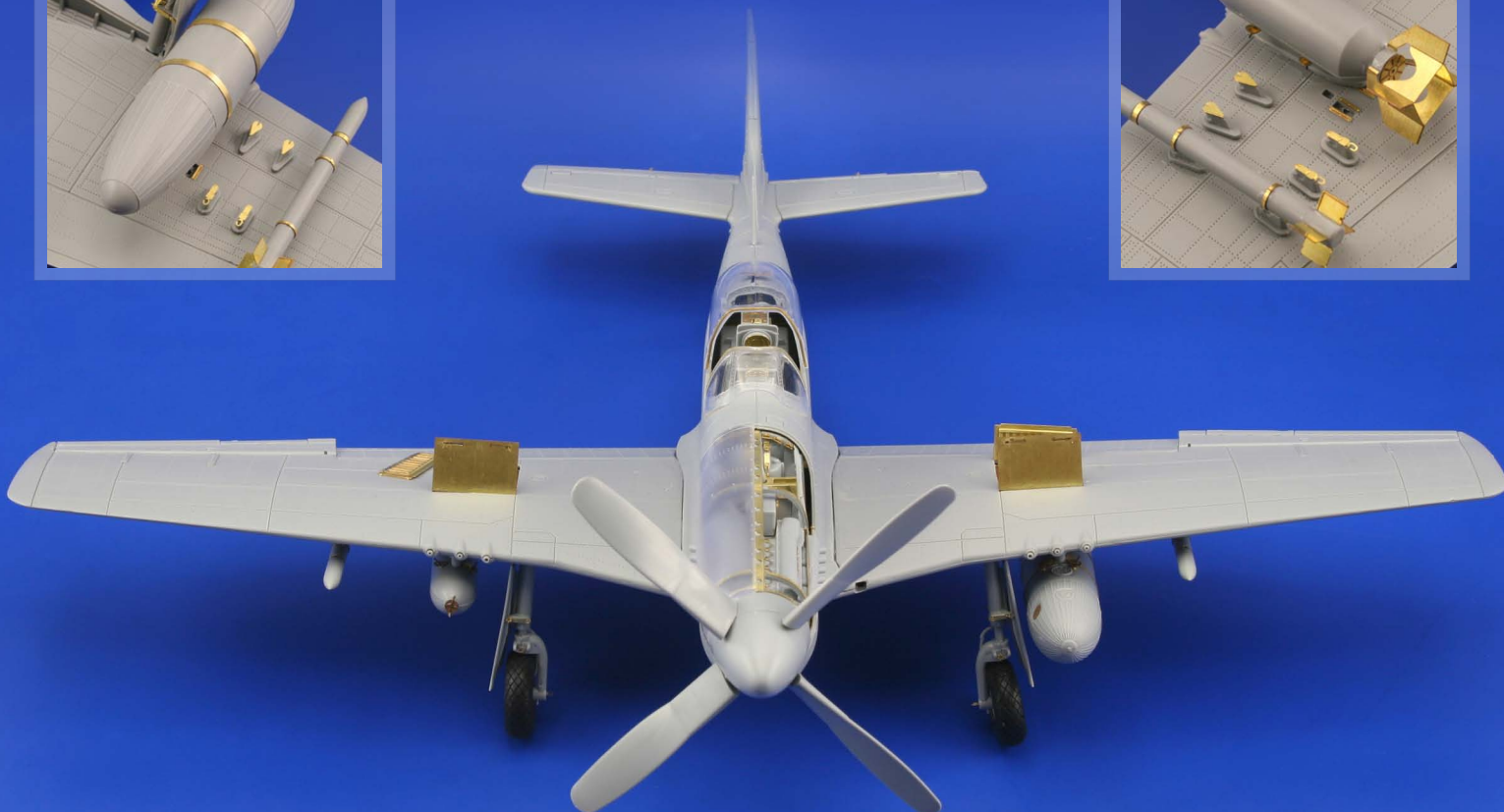
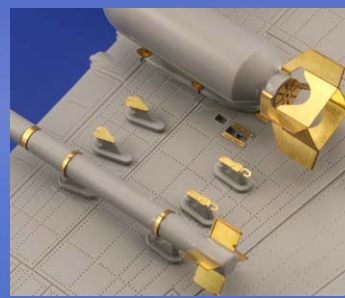
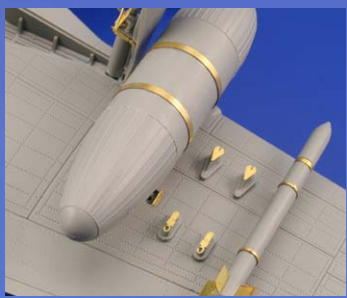
PHOTO-ETCHED SETS AND MASKS

SELECTED

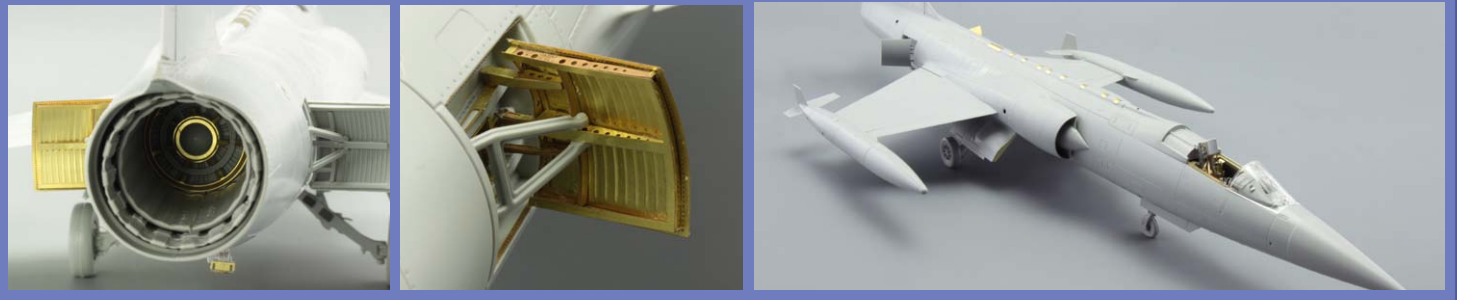
P-51K wings armament 1/32 Dragon (32361)



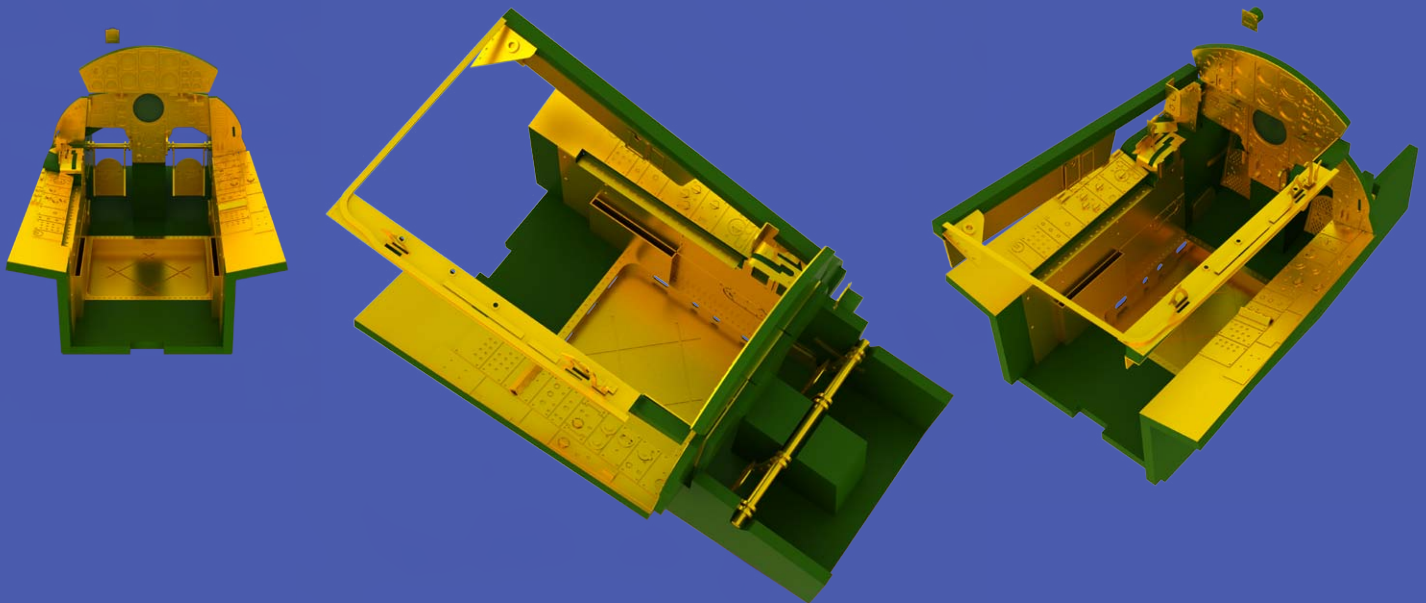
P-51K exterior 1/32 Dragon (32362)



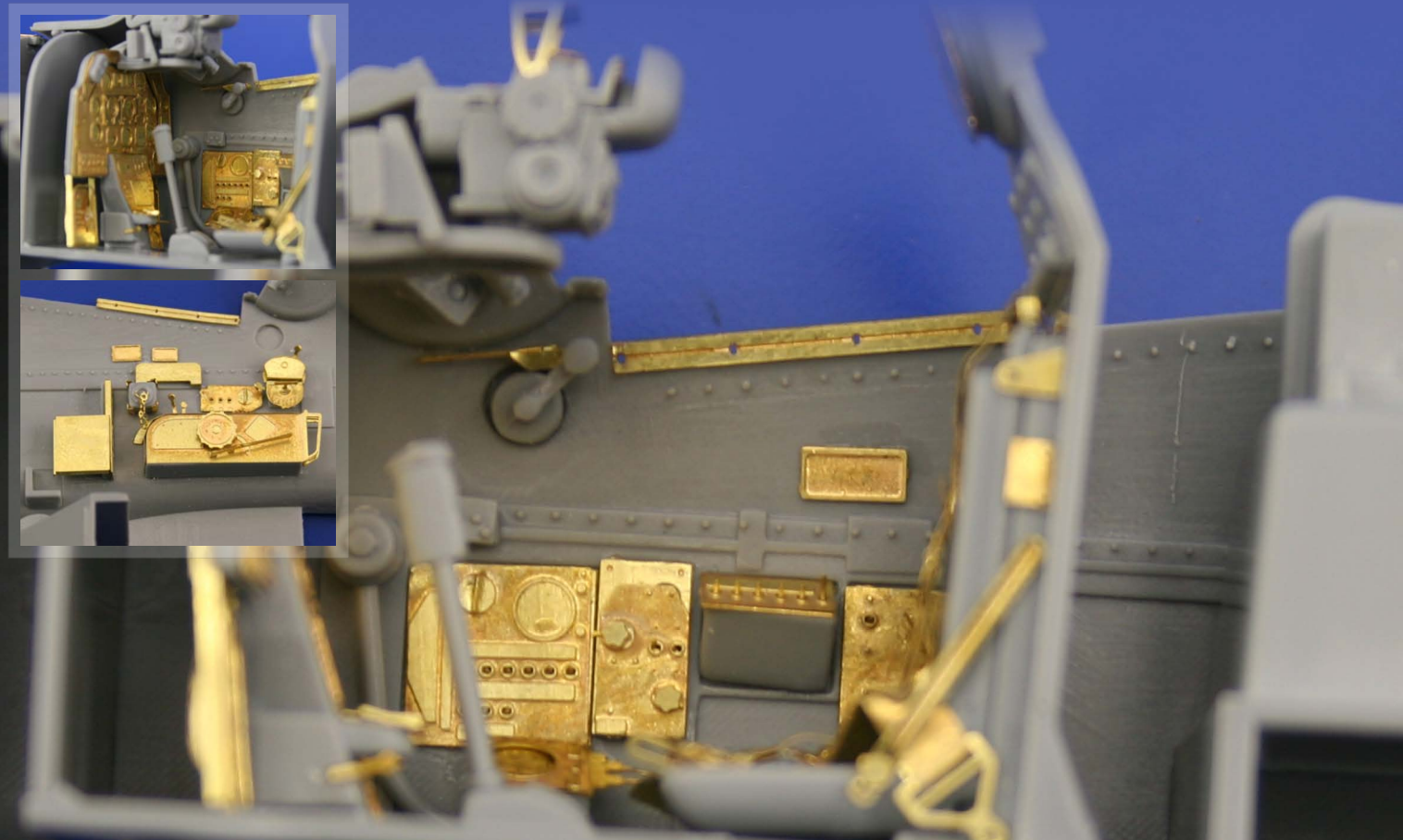
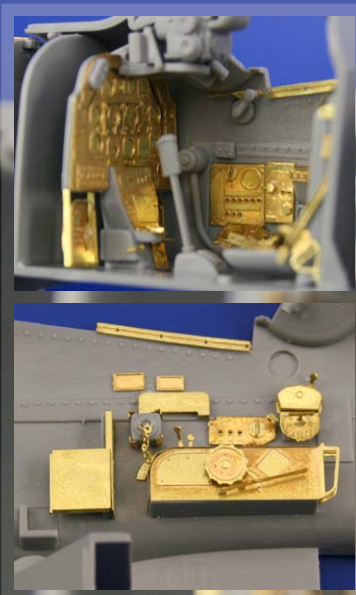
F-104C exterior 1/32 Italeri (32363)



F-104C interior S.A. 1/32 Italeri (32819)



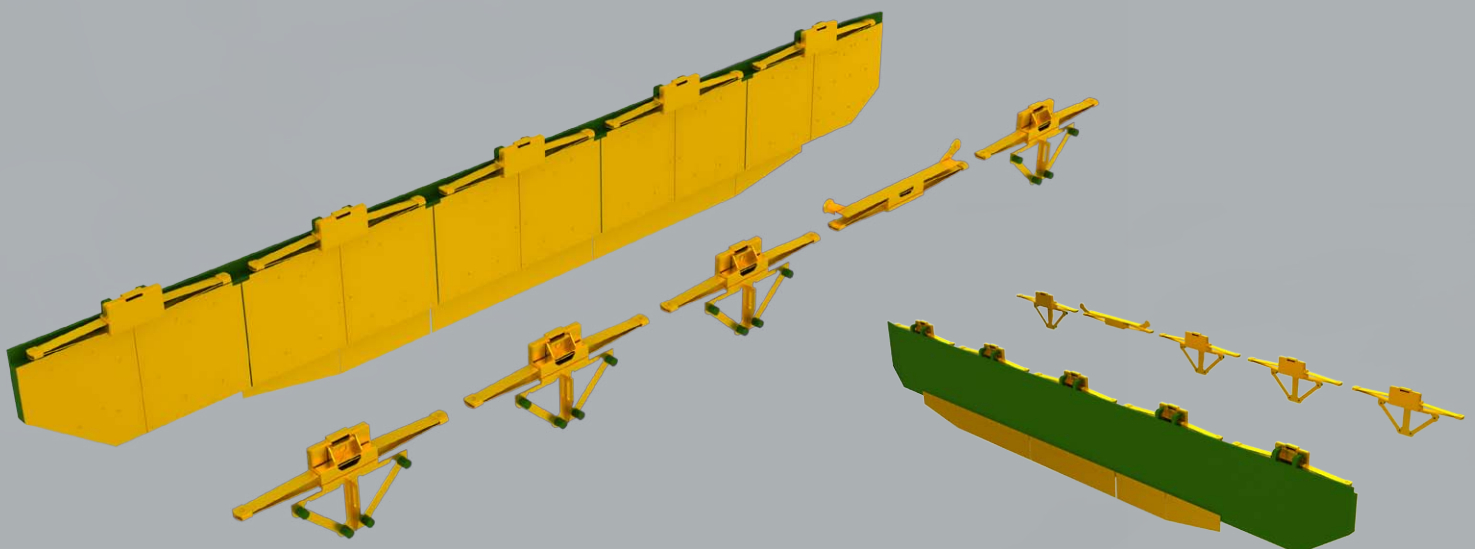
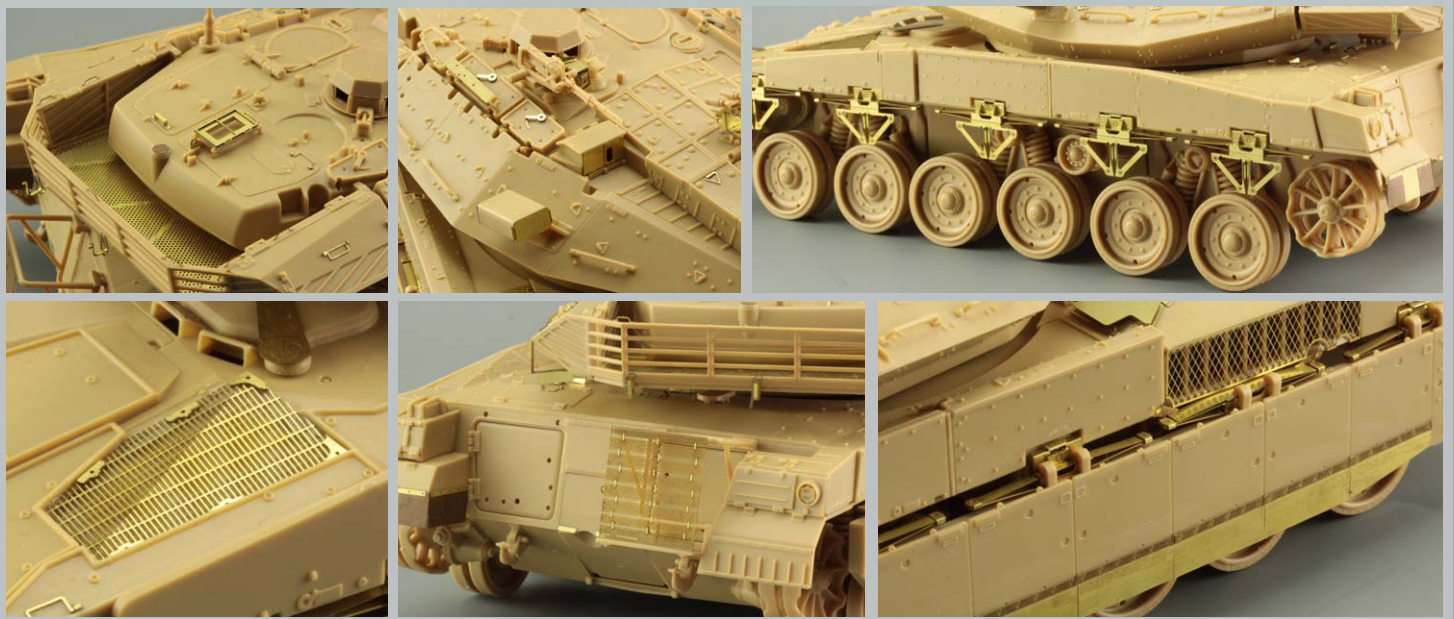
P-51K interior S.A. 1/32 Dragon (32821)



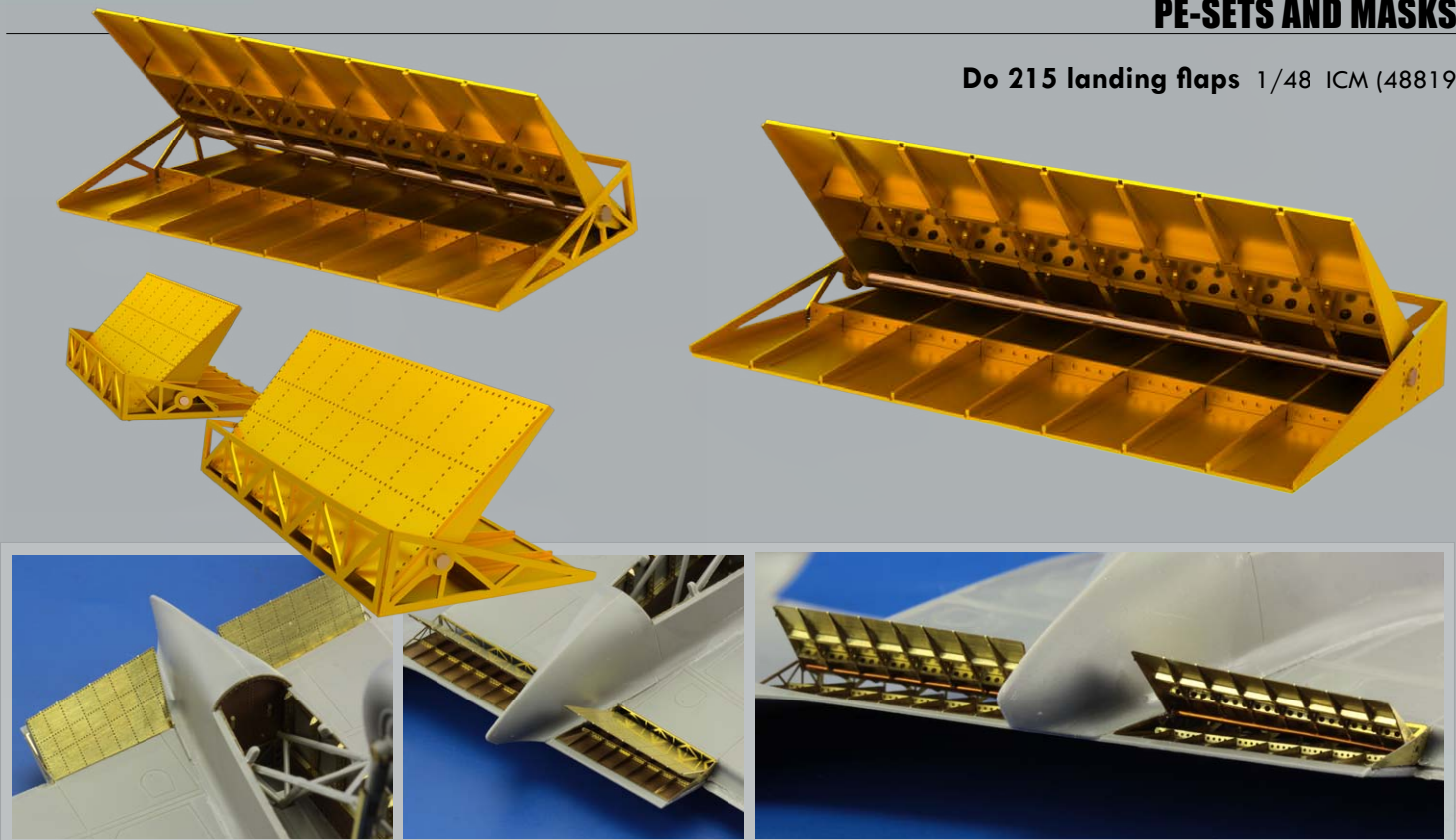
Merkava IID 1/35 Academy (36279)



Merkava IID armour shields
1/35 Academy (36280)



Do 215 landing flaps 1/48 ICM (48819)



EMB-314 Super Tucano exterior 1/48 Hobby Boss (48820)



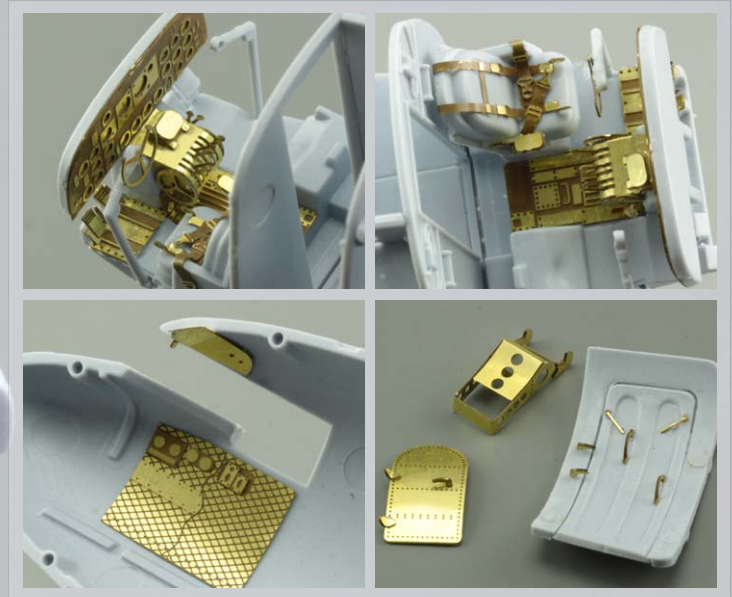
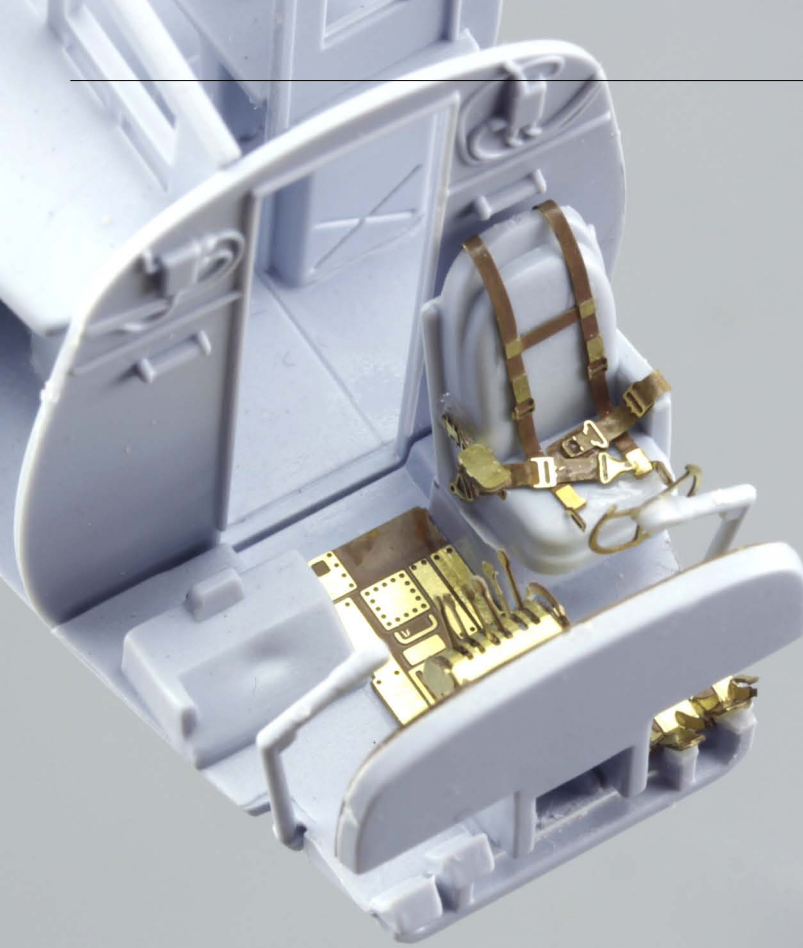
USS MISSOURI

USS Missouri part 7 - superstructure

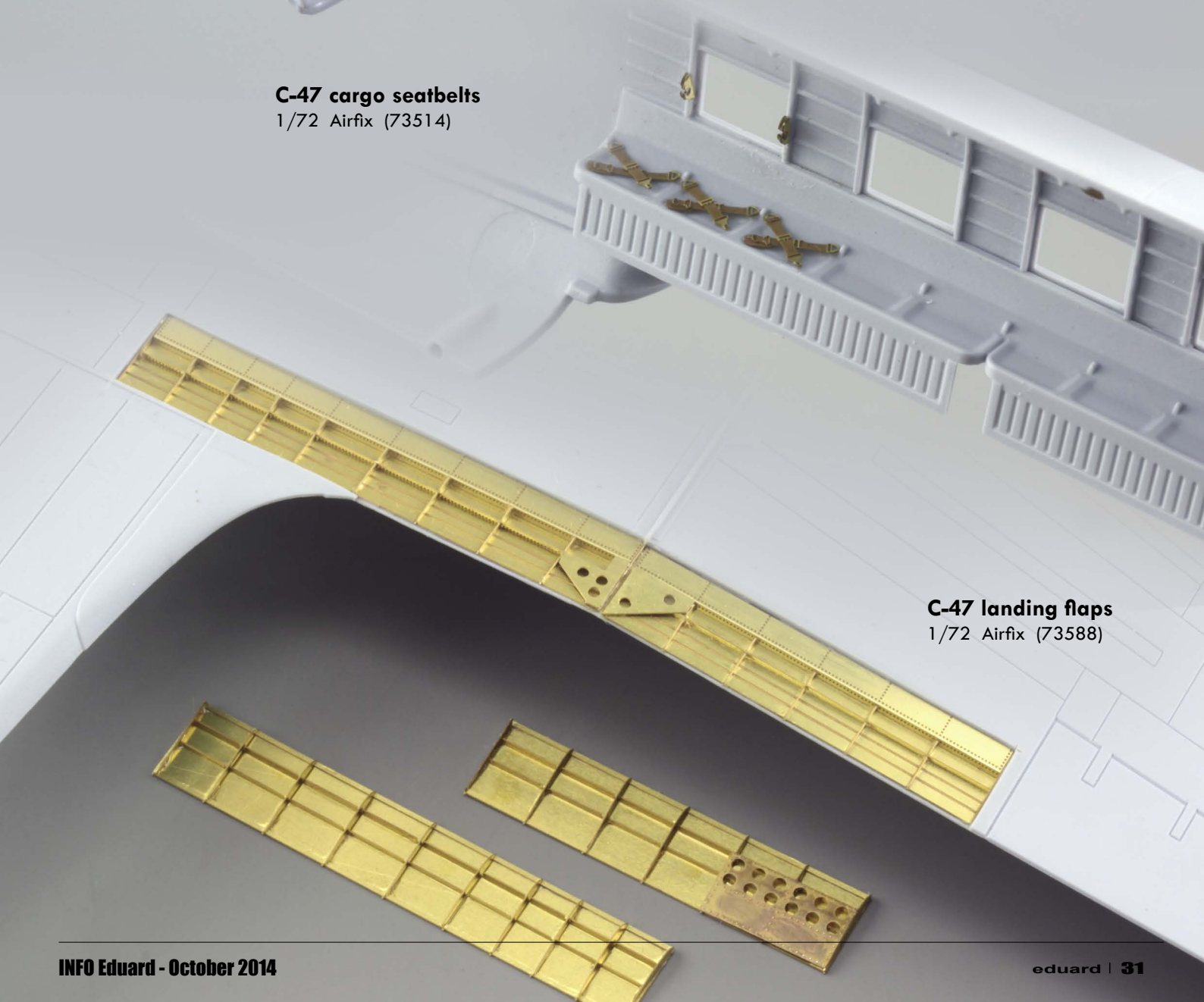
1/200 Trumpeter (53123)



C-47 interior S.A. 1/72 Airfix (73513)



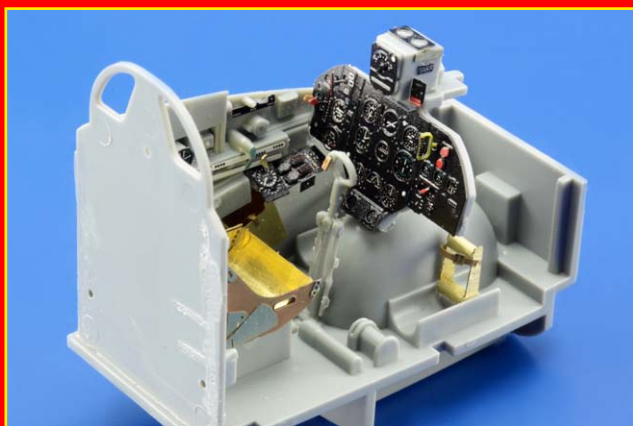
C-47 cargo seatbelts
1/72 Airfix (73514)



C-47 landing flaps
1/72 Airfix (73588)

BIG ED

All sets included in this BIG ED are available separately, but with every BIG ED set you save up to 30%.



32804 Gloster Meteor F.4 interior S.A. (BIG3341)



32354 T-6 exterior/ landing flaps (BIG3342)



72576 PBM-5/PBM-5A exterior (BIG7288)

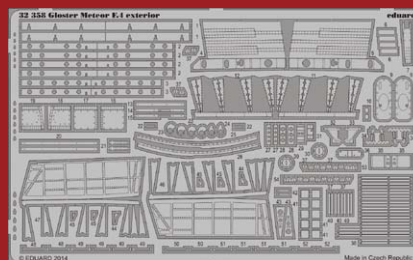
BIG3341 GLOSTER METEOR F.4 1/32 HKM

BIG3342 T-6G 1/32 KTH

BIG7288 PBM-5/PBM-5A 1/72 MIN

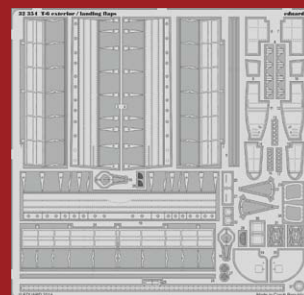
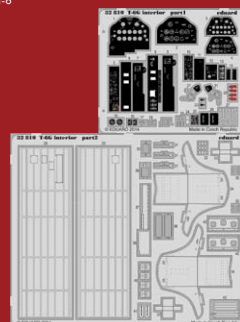
BIG3341 GLOSTER METEOR F.4 1/32 HKM

32358 Gloster Meteor F.4 exterior
32804 Gloster Meteor F.4 interior S.A.
32816 Gloster Meteor seatbelts
JX169 Gloster Meteor MK4



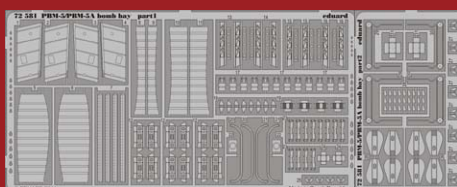
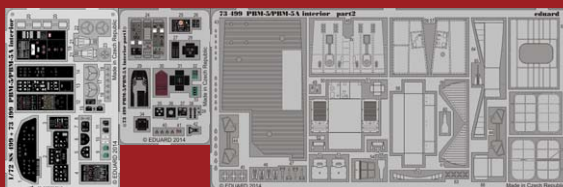
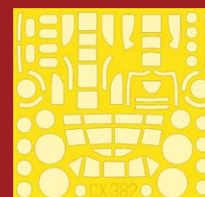
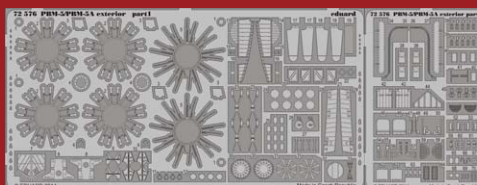
BIG3342 T-6G 1/32 KTH

32354 T-6 exterior/ landing flaps
32810 T-6G interior S.A.
32814 T-6 seatbelts
JX165 T-6



BIG7288 PBM-5/PBM-5A 1/72 MIN

72576 PBM-5/PBM-5A exterior
72581 PBM-5/PBM-5A bomb bay
73499 PBM-5/PBM-5A interior S.A.
73504 PBM-5/PBM-5A seatbelts
CX382 PBM-5/PBM-5A



KITS

3716	M4A1 Sherman	1/35	ProfiPACK
84120	Fw 190A-8	1/48	Weekend
7423	MiG-15	1/72	Weekend
1187	Stříbrné šípy	1/48	Limited Edition

PHOTO-ETCHED SETS

32361	P-51K wings armament	1/32	Dragon
32362	P-51K exterior	1/32	Dragon
32363	F-104C exterior	1/32	Italeri
32819	F-104C interior S.A.	1/32	Italeri
32821	P-51K interior S.A.	1/32	Dragon
32824	F-104 C1 seatbelts	1/32	Italeri
36279	Merkava IID	1/35	Academy
36280	Merkava IID armour shields	1/35	Academy
48819	Do 215 landing flaps	1/48	ICM
48820	EMB-314 Super Tucano exterior	1/48	Hobby Boss
48821	S-30M-2 Flanker exterior	1/48	Academy
48823	La-5FN upgrade set	1/48	Eduard
49694	S-30M-2 Flanker interior S.A.	1/48	Academy
53123	USS Missouri part 7 - superstructure	1/200	Trumpeter
53125	USS Missouri part 9 - ladders	1/200	Trumpeter
72588	C-47 landing flaps	1/72	Airfix
73513	C-47 interior S.A.	1/72	Airfix
73514	C-47 cargo seatbelts	1/72	Airfix

ZOOMS

33140	F-104C interior S.A.	1/32	Italeri
33141	P-51K interior S.A.	1/32	Dragon
FE694	S-30M-2 Flanker Interior S.A.	1/48	Academy
FE692	MiG-21R Weekend	1/48	Eduard
SS513	C-47 interior S.A.	1/72	Airfix

MASKS

CX375	MiG-15 Weekend	1/72	Eduard
CX398	Blenheim Mk.I	1/72	Airfix
CX399	F-35	1/72	Hasegawa
CX400	F-15C MSIP II	1/72	Academy
CX401	C-47	1/72	Airfix
EX437	S-30M-2 Flanker	1/48	Academy
EX439	Bf 109E-1/E-3	1/48	Eduard
JX173	P-51K	1/32	Dragon
JX174	F-104C	1/32	Italeri

BIG ED

BIG3341	GLOSTER METEOR F.4	1/32	HK Models
BIG3342	T-6G	1/32	Kittyhawk
BIG7288	PBM-5/PBM-5A	1/72	Minicraft

BRASSIN

648144	MiG-21 PF interior	1/48	Eduard
648145	MiG-21 PF ejection seat	1/48	Eduard
648146	MiG-21 PF/PFM/R airbrakes	1/48	Eduard
648164	AGM-12C Bullpup B	1/48	
648173	UB-16 rocket launcher	1/48	
672044	AGM-45 Shrike	1/72	
672046	C-47 wheels	1/72	Airfix
672047	F-16CJ Block 50 ejection seat	1/72	Tamiya

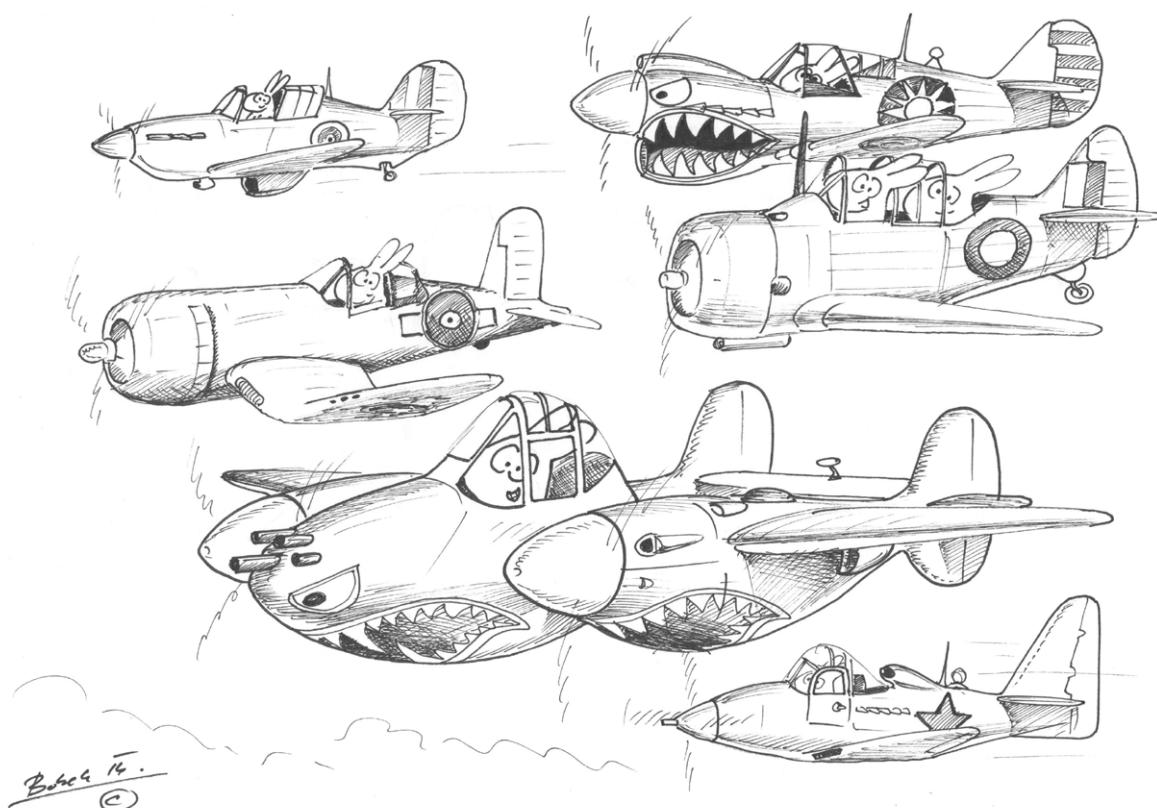
BIGSIN

SIN64815	MiG-21 PF/PFM/R WEAPONS SET	1/48	Eduard
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BUY / e-shop Eduard



E-BUNNY'S SQUAT



An Excerpt from the publication 'Stribrne Sipy' (Silver Arrows) by Martin Janousek, containing the chapter 'MiG-21R in Czechoslovakia: A Photo-Reconnaissance MiG-21R Pilot's Perspective', by Col. Milan Simr



FLYING THE MiG-21R

Milan Simr

Flying the MiG-21R in the former Czechoslovakia tended to be a very specific thing to do, given the type's specialized function. Much of the reconnaissance duties took place at low to ground level altitudes and included a preferably undetected arrival to confirm location and activity of the target and a subsequent pass or two to capture photo images, a quick radio update and an equally rapid and hidden egress to base. This was typically followed by an examination of the film where the captured images were transferred onto transparencies indicating co-ordinates and then were transmitted to other services for further use.

The duties that were placed on the pilots were typically one of two types. He could be called on to confirm existing information, for example to confirm weather or not an item of interest was in a given location, confirmation of troop movements, troop expansions and so on. In such cases, the pilot would prepare maps of areas of interest, plan a viable entry route and an exit strategy, as well as planning any parts of the mission that would be affected by existing counter-air defenses in the area that would have a bearing on waypoints and points at which the cameras would be switched on.

A more labor intensive type of mission involved reconnaissance flights that were ordered from 'higher up', where the pilot sat mission ready and received an approximate location that needed to be swept. Flight specifics were then determined by the pilot based on available information.



Among such missions was a maneuver that involved consecutive 360 degree turns, with each subsequent rotation covering an adjacent block of the search area. Another variation on the theme was a combing procedure, that involved a straight flight over a given timespan, followed by a 180 degree turn and a straight return over a flight path shifted

by half the diameter of the turn.

All of the duties fell within strict time norms. Also strictly adhered to were co-ordinates called out during the flight where the pilot was required to report 'what he saw, how much of it he saw, and in what state he saw it in'. (especially significant in cases of the feared Lance missiles, where it needed to be known if these were in firing position or not, if they are being moved, and so on.) Naturally, keeping in mind the constant threat of eavesdropping, communications were helped along with secret codes where every piece of equipment was allocated its own two-digit code number. All of these things had to be done by the pilot alone, since there was no one else in the cockpit. He had to have his bearings straight, keep an eye on the terrain below him, write down radio communications, and monitor the minimum required reconnaissance speed of 600km/h. Navigational aids were not very sufficient in the MiG-21R, and included just a clock, a compass, and, of course, a map. We didn't envision digital maps or GPS in our wildest dreams. The aircraft received no navigational upgrades from their arrival in the sixties and only received AoA equipment. It's interesting that the MiG-21Rs remained in natural metal throughout their careers, something that always allowed them to be easily spotted by fighters during exercises. At the time when tactical reconnaissance aircraft in the West were being camouflaged, including undersurfaces, our unit only initially had one 'Black Mary', an aircraft with the number 2101, the only Czechoslovak Air Force MiG-21 camouflaged grey-black, undersides included. A second 'Black Mary' followed later, numbered 1922, but that one had its undersurfaces left in natural metal. Near their service lives, another camouflaged aircraft appeared, in an MF style brown/green scheme numbered 1501.

On a number of occasions it happened that a pilot would inadvertently get lost along the western border behind the 'little hills', so it quickly became apparent to me why all of our classrooms were adorned with posters of castles, palaces and towns. Their various characteristics making identification easier could really get you out of a sticky situation.

The most interesting duties were reconnaissance strike missions. During these missions, targets were dispatched using S-5 57mm unguided rockets fired from UB-16 pods, or parachute retarded bombs. These latter weapons were released 90m altitude to give the pilot time to clear the blast area.

Missions were typically flown in pairs in a loose formation so that even the second pilot could search for targets, and on occa-

Milan Simr in MiG-21R '2101'

(photo - M. Simr)

sions where it was the second pilot to spot the point of interest first, he took on the role of lead aircraft.

Another type of reconnaissance mission involved searching out enemy radar sites and their areas of operation. This was done using detection equipment in Type R Containers. Their routes were strictly planned and determined, and led across radio-navigational stations at airfields (these being placed 4km ahead of the airfields and were part of the landing in poor weather system). During the flight itself, which was flown in the area of 4,000m altitude, the pilot would record on an on-board microphone flight data. Among the data recorded were course, altitude, deviations from the compass, course corrections based on drift angles, and so on. The data that was obtained served to plot the actual flight path and specialists were able to determine the approximate locations of the radar locations beyond our borders as far as hundreds of kilometers.

The MiG-21R was powered by the older and less productive R-11 engine. Furthermore, underslung reconnaissance containers and full 490l tanks on outboard pylons did little to enhance the flight characteristics. When hard maneuvering was required, or air to air combat capability was required, then there would always be a clean MiG-21R involved, with nothing underslung. Maneuvering air combat was not flown with reconnaissance MiG-21Rs configured for the role, as it was with fighters, and the only thing that was trained was attacks from the rear hemisphere, or guiding to the target using radar. The capture of targets using radar was not particularly dazzling, but interception and flying with the radar on was more of a training exercise in familiarization. For these duties, MiG-21MAs were used, which our unit had at our disposal.

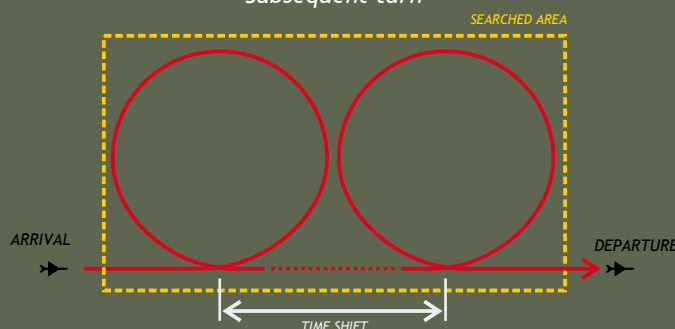
The majority of MiG-21Rs carried the reconnaissance Type D or Type R pods, and pilots were allocated a specific aircraft by the unit CO on a daily basis. In the event of a scramble alarm, pilots ran to the apron, mounted their aircraft, and radioed in their readiness to take-off. At that point, pilots were allowed to get out of their aircraft, and a determination could be made of how closely and effectively prescribed procedures were followed in maintaining combat readiness. Flying was organized in cycles that included two days of flying and one day of other training. At times, especially in times of crisis, flying would also be conducted on weekends. Due to the breakup of Czechoslovakia, a portion of the MiG-21Rs found themselves in Slovakia. After the disbandment of the only reconnaissance asset at Hradec Kralove in 1993, the MiG-21Rs were transferred to the base at Caslav, where they were rapidly wound down after their long careers.

Recon tactics variants

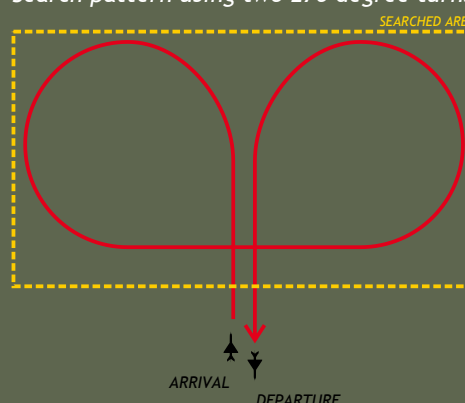
Combing operation utilizing 180 degree turns



Subsequent turn



Search pattern using two 270 degree turns



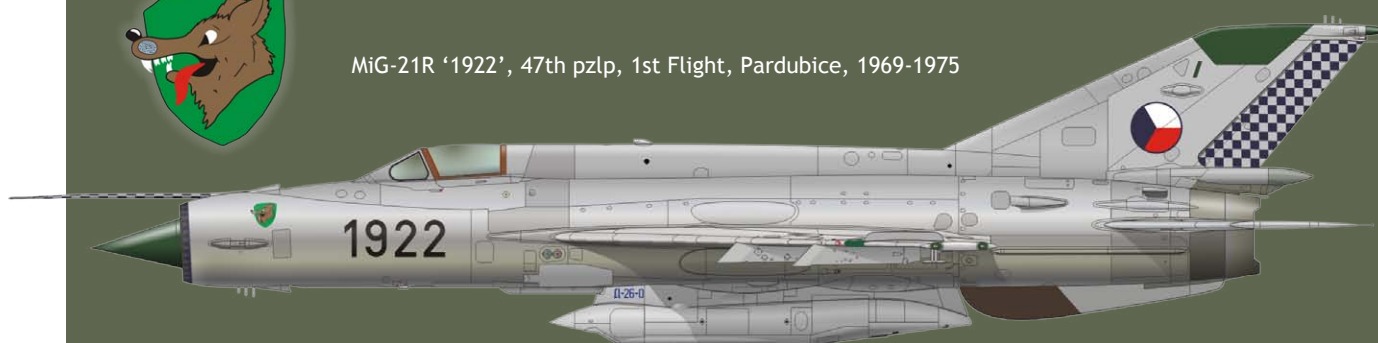
'Black Mary', MiG-21R '1922'
(photo - 4+)



This photograph from the end of the sixties/beginning of the seventies shows some of the technical details of the MiG-21R. At the top of the winscreen, the recce container control panel can be seen. The AoA sensor on the front below the unit badge appeared on the MiG-21R, and the MiG-21PFM did not have these. The pitot tube does not have the DUAS vanes at its front, these not appearing until the M versions. Members of the ground crew are observing an Mi-4 in flight with interest. In the background, an Il-28R or RT can be seen, and their service with the CSLA at that time was in the process of winding down.



MiG-21R '1922', 47th pzlp, 1st Flight, Pardubice, 1969-1975



MiG-21R, fuselage code '1922'. Note the size and position of the national markings. The unit insignia on the nose and dark blue elements date this photo in the first half of the seventies, when the 47th pzlp was based at Pardubice. The aircraft carries the typical combination of a reconnaissance container (specifically the Type D here) and two 490 l drop tanks.





Captain Michal Curgali in front of '1922'. This photograph also hails from Pardubice in the first half of the seventies. In behind, there are concrete panels that served as the structure for aircraft shelters. The inboard pylons are configured to carry bombs. MiG-21R '1922' was accepted by the Czechoslovak Air Force on April 28, 1970. It served its entire career with the 47th pzlp and after the breakup of Czechoslovakia, it was transferred to the Slovak side.

Commemorative photo of MiG-21R '1922' with Major Roth on the right. The dark blue checkerboard on the rudder was sprayed directly onto the metal. The front part of the canopy carries two small rear view mirrors. Aircraft up to code '1704' and aircraft coded '1919' to '1922' did not have, same as the MiG-21PFM, the rear view mirror (periscope type), but later, during overhauls, they received copies for the MiG-21MF with the opening for the mirror assembly. However, the mirrors were never installed, and they were typically faired over. Aircraft coded '1824' and on, in other words, aircraft built in 1970, did have the mirrors fitted as did the later MiG-21MFs.



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photo: Kateřina Borecká, Petr Chmelík

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simulators



discussion with MiG-21 pilots



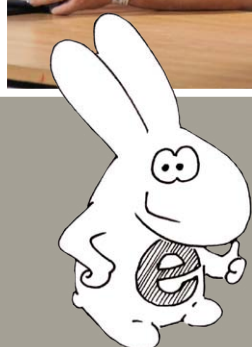
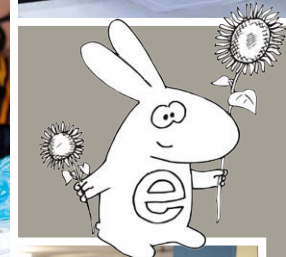
Jaroslav Palečný



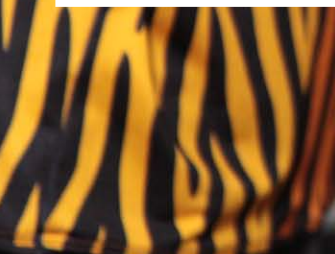
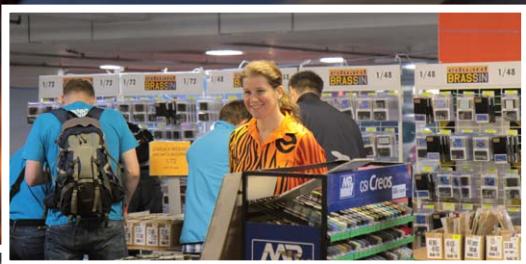
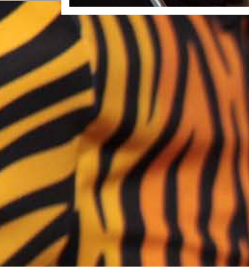
Karel Pádár



Jan Bobek



kotel with Alfred Riedel





DANGER ZONE



built by Jan Novotný

Danger Zone 1/48 - 161147 (TARPS), VF-31
Tomcatters, USS John F. Kennedy, 1984

BUY Danger Zone 1/48





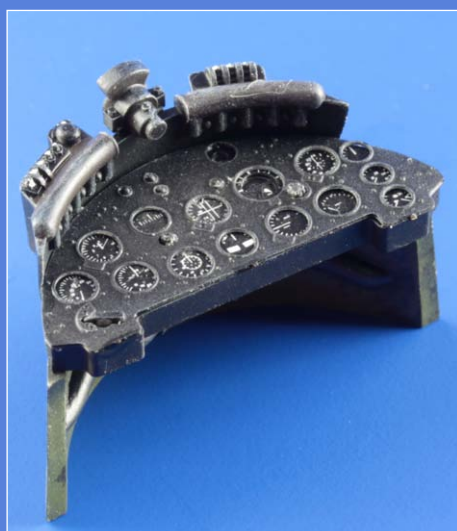
F4U-1 cockpit 1/32 Tamiya

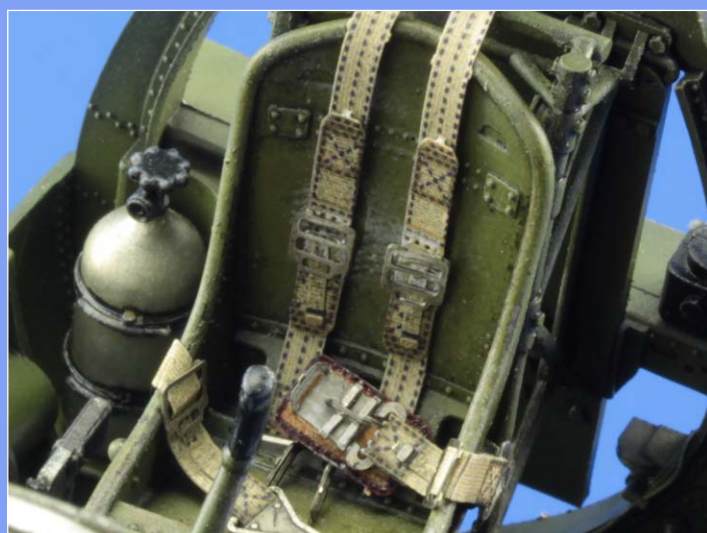
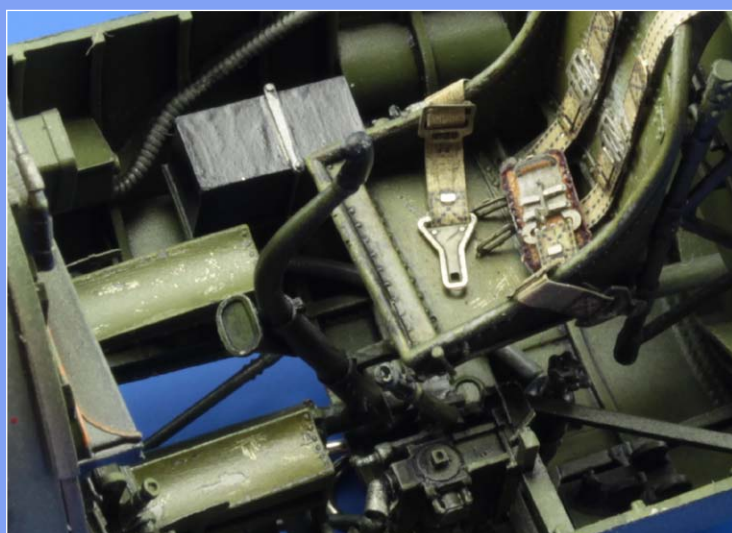
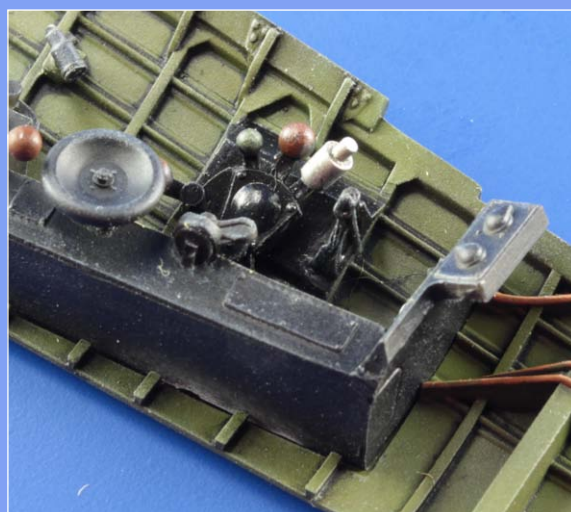
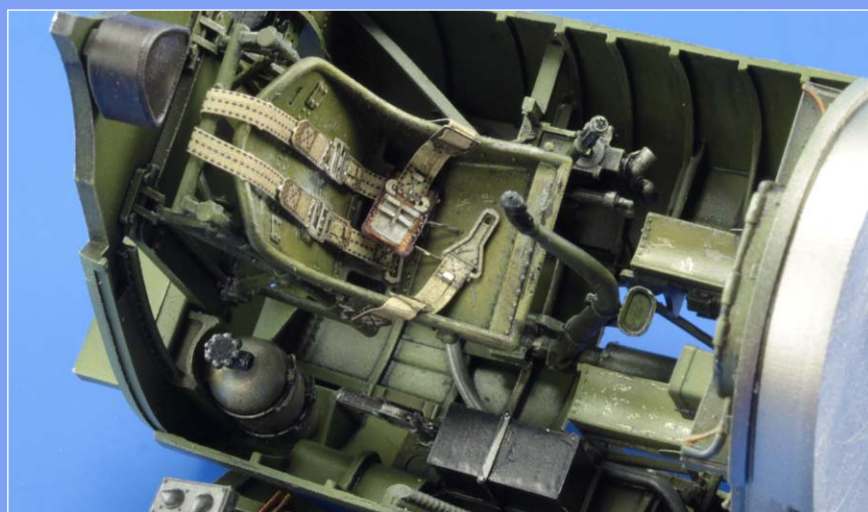
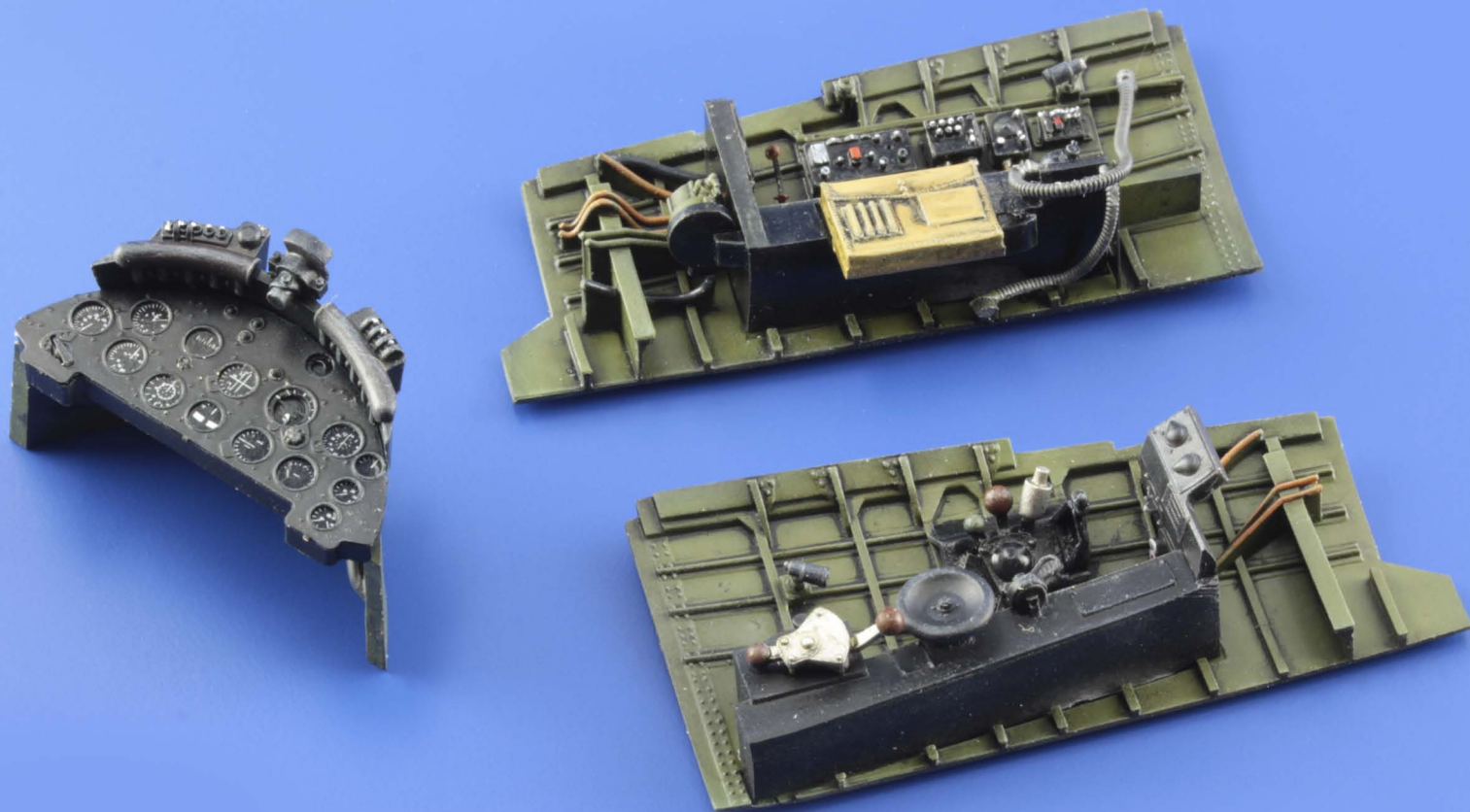


Detailed Brassin cockpit for 1/32 F4U-1. Gunsight made from clear resin. Fabric seatbelts. Photo-etched details and decals included.

built by Petr Zatléřpálek

BUY F4U-1 cockpit 1/32





BIG ED (November)

- BIG3343 A-1H 1/32 Trumpeter
- BIG49111 TORNADO IDS 1/48 Revell
- BIG7289 SUNDERLAND Mk.III 1/72 Italeri
- BIG5325 USS MISSOURI PART I. 1/200 Trumpeter
- BIG5326 USS MISSOURI PART II. 1/200 Trumpeter

ON APPROACH

BRASSIN



(November)

624001
Typhoon wheels
1/24 Airfix

635003
Bren Mk.I
1/35

648138
F-4B exhaust nozzles
1/48 Academy

648139
F-4B ejection seats late
1/48 Academy

648166
SSW D.III engine
1/48 Eduard

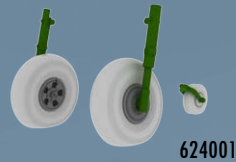
648167
AGM-78 Standard ARM
1/48

648177
SSW D.III guns
1/48 Eduard

648185
MiG-21PFM interior – grey
1/48 EDUARD

672041
AGM-12B Bullpup A
1/72

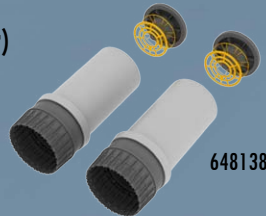
672053
German Submarine 10,5cm gun
1/72 Revell



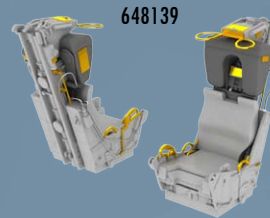
624001



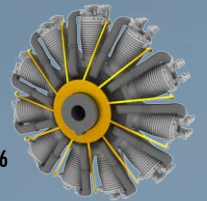
635003



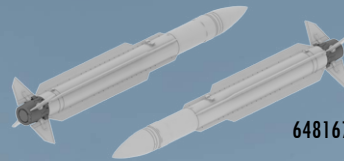
648138



648139



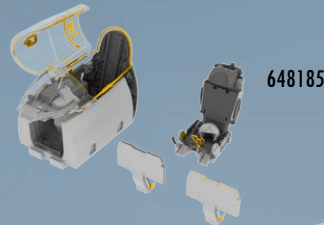
648166



648167



648177



648185



672041



672053

KITS (November)



8203
Bf 110E
1/48 ProfiPACK
REEDITION

7425
La-7
1/72 Weekend



8256
SSW D.III
1/48 ProfiPACK

PE-SETS (November)

PE-SETS

32820	F-104C electronic equipment	1/32	Italeri
32822	F-104C gun bay	1/32	Italeri
32823	F-104A interior S.A.	1/32	Italeri
36285	Achzarit basket	1/35	Meng
36286	Achzarit TOGA armour	1/35	Meng
36289	M4A1 Deep Wading Kit	1/35	Eduard
48822	Spitfire Mk.V landing flaps	1/48	Airfix
48824	Typhoon Mk.Ib Bubbletop landing flaps	1/48	Italeri/Hasegawa
49684	Typhoon Mk.Ib Bubbletop	1/48	Italeri/Hasegawa
49695	Spitfire Mk.Vb interior S.A.	1/48	Airfix
49070	SSW D.III seatbelts FABRIC	1/48	Eduard
72587	C-47 exterior	1/72	Airfix
72589	Blenheim Mk.I exterior	1/72	Airfix

72590	C-47 surface panels	1/72	Airfix
72591	Blenheim Mk.I landing flaps	1/72	Airfix
72592	Blenheim Mk.I bomb bay	1/72	Airfix
73507	F-35A S.A.	1/72	Hasegawa
73512	Blenheim Mk.I interior S.A.	1/72	Airfix
73515	F4U-1A S.A.	1/72	Revell

ZOOMS

33142	F-104A interior S.A.	1/32	1/32	Italeri
FE684	Typhoon Mk.Ib Bubbletop interior S.A.	1/48	1/48	Italeri/Hasegawa
FE695	Spitfire Mk.Vb interior S.A.	1/48	1/48	Airfix
SS515	F4U-1A S.A.	1/72	1/72	Revell
SS520	La-7 Weekend	1/72	1/72	Eduard

36289
M4A1 Deep Wading Kit
1/35 Meng



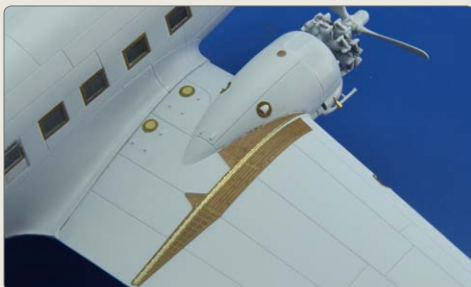
48822 Spitfire Mk.V landing flaps
1/48 Airfix



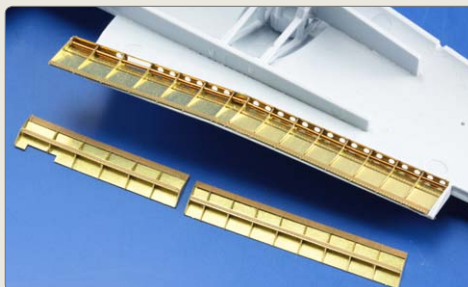
49695 Spitfire Mk.Vb interior S.A.
1/48 Airfix



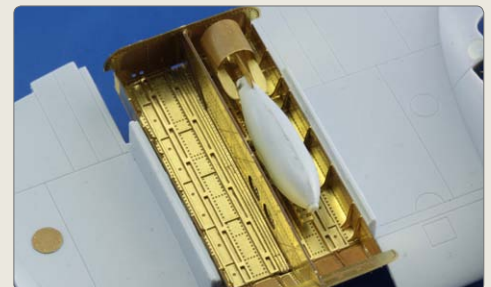
72587 C-47 exterior
1/72 Airfix



72590 C-47 surface panels
1/72 Airfix



72591 Blenheim Mk.I landing flaps
1/72 Airfix



72592 Blenheim Mk.I bomb bay
1/72 Airfix

KPM AVZO Cheb lädt Sie herzlich ein

Jiří Vojta Memorial

14. internationales Treffen der Plastikmodellierer

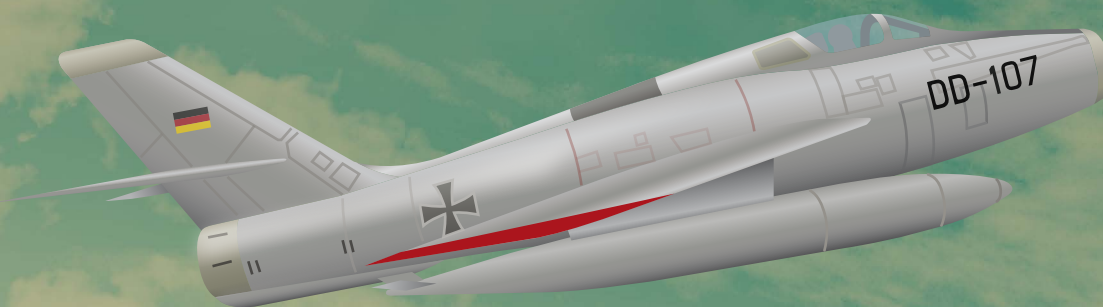
Die Veranstaltung findet unter der Schirmherrschaft
des Bürgermeisters der Stadt Cheb,
RNDr. Pavel Vanoušek, statt.

1. 11. 2014

Kulturzentrum Svoboda Cheb

8:00 – 16:00

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