INFO EDUARD

VOL 14, May 2015

ISSUE 58

price US $ 0.00

GOOD EVENING DA NANG!

HISTORY

INTERMEDIATE RANGE BALLISTIC MISSILE R-3

BUILT

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F-4 seats 1/48
diorama 1/35

BRASSIN

F4U-1A cockpit 1/32
B.534 bombs & racks 1/72
Fw 190 undercarriage legs BRONZE 1/32

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INFO EDUARD

ISSUE 59

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

May 2015

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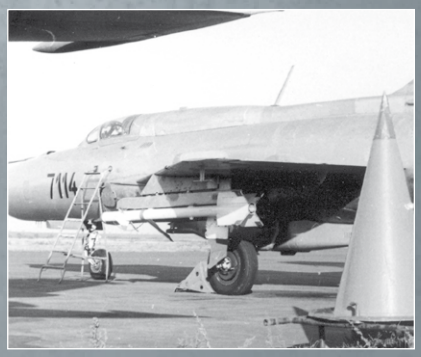
June 2015



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EDITORIAL

For the recent Mosonmagyarovar show, we prepared the new, and even for us ‚difficult to get at the moment' plastic for the new 1/72 scale UTI MiG-15. I also brought along newly printed decals for the pending Royal Class edition of the MiG-15 and was fully prepared for any discussions generated by the new model, and set it all out in plain view by the cash registers. The assembled test shot.....well, that I forgot at home. Fortunately, when something else required my attention, someone liberated the items of my ownership. It wouldn't appear so much as a ‚crime of opportunity', since not only were the ones on open display taken, but also four other sets that were packaged individually and placed nearby. On the one hand, the culprit freed me of my duty to stand there with the items and strike up conversations about them, but on the other hand, this was a serious blow. It was on my mind through the entire event. When, last year, someone did the same with my built Gustav, I was not all that disturbed by the incident. Actually, I saw an entertainment component to it, not to mention the fact that it occurred at the end of the show. The model fulfilled its mission, and owed me nothing. I hope that in the future, I will be able to avoid such incidents. Although traditions tend to be good things, it would seem that some others might be best discarded. To top it off, someone also swiped the sheet for Czechoslovak UTIs at the end of the show.

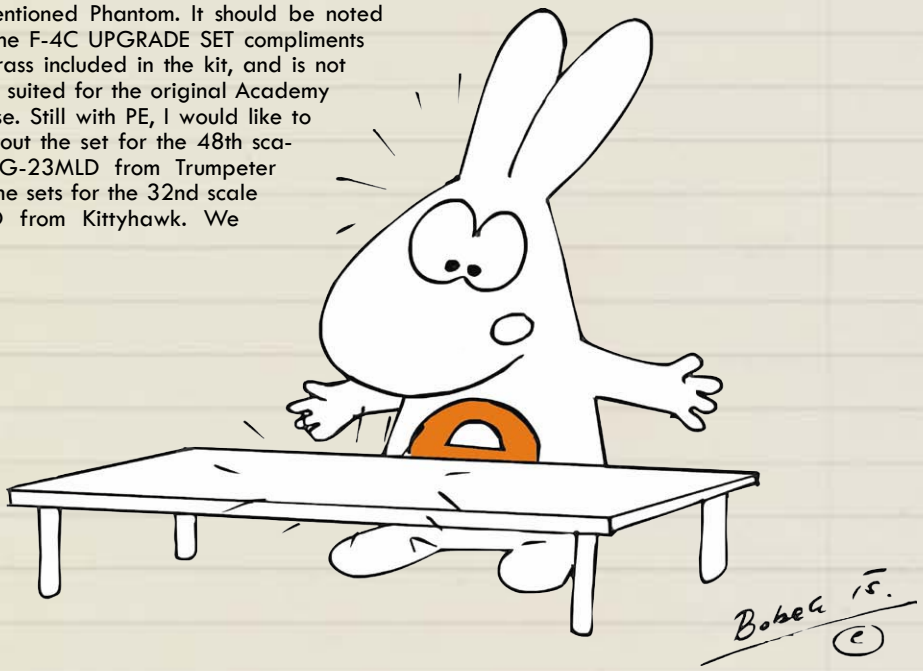
In this newsletter, you can get a glimpse of the marking options for the UTIs in the Royal Class boxing, as well as those of the other versions. The Royal Class kit will be out in June, and will include a total of four kits: one of each of the MiG-15, MiG-15bis, MiG-15bisSB and the UTI MiG-15. If that is not enough, and given the markings options offered in the kit, that is a distinct possibility, there will be the Overtrees option available through June and July covering all of the versions. The Overtrees concept is celebrating its fourth year since being introduced, when the first, for the MiG-21MF hit the store in March, 2011. They very quickly became a popular item, but they are available only for a limited time, typically a month after the release of the original ProfiPACK or Royal Class version of the kit. The reason is that from a logistical point of view, these kits are difficult to put together and maintain in stock. In July, we will be witness to a unique situation, when the entire month will see several tens of Overtree type kits on offer at the same time. The OVERWOOD MONTH event will begin on our e-shop www.eduard.cz on July 1st and will go on till the 31st of that month. Overtrees will not be available for all of our kits, but will for most. July will be an interesting month in any case. Besides what's already been mentioned, we are preparing a Dual Combo kit of the Spitfire Mk.XVI in 1/48th scale, A Limited Edition ‚Vietnam Scooters' in the same scale, who's base kit is made up of the Hasegawa A-4E/F Skyhawk within an Eduard release, and a 1/72nd scale Weekend Edition Avia B.534III. The Spitfire Mk.XVI Dual Combo kit will be that way to cover both the classic high back kit, and also the bubble canopy version. The marking options are extremely attractive for both versions, and for our Czech and Slovak modelers, it will be interesting to note that we are attempting to determine the look of the aircraft flown by Sq.Ldr. Otto Smik in which he flew his final, fateful mission

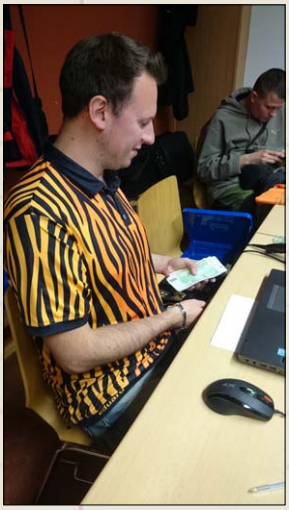
June's selections are also very good. Besides the aforementioned MiG-15 Royal Class kit, we will be offering another reboxing of the well respected and liked Airacobra, this time as a Limited Edition kit dubbed ‚Guadalcanal Airacobras'. This will also be a Dual Combo kit, because once again, I'd venture to say that the marking options chosen will render both sets of parts used, and used well. The ProfiPACK line will be represented by a 1/48th scale Fokker E.III, and the Weekend line by the MiG-21MFN, which is a Czech version of the -21, and in this case, with an unconventionally wider decal sheet.

Today's newsletter is naturally concerned with May's releases, first and foremost, which is capable of giving the items being prepared for June and July a run for their money. The main star is the 48th scale F-4C Phantom II as the subject of the Limited Edition kit ‚Good Evening Da Nang!' I consider the highlight of this kit to be the marking options, not to mention that the Academy plastic and Brassin resin components more than pull their weight as well. The Phantom is a good companion piece to the Weekend Edition MiG-21PF. There are two May ProfiPACK kits, the I-16 Type 24 in 1/48th and the Junkers J.1 in 1/72. These are versions of older kits that have been sold out for years. Within the ranks of photoetched brass you will find two new sets for the above mentioned Phantom. It should be noted that the F-4C UPGRADE SET compliments the brass included in the kit, and is not really suited for the original Academy release. Still with PE, I would like to point out the set for the 48th scale MiG-23MLD from Trumpeter and the sets for the 32nd scale F-86D from Kittyhawk. We also have new Brassin sets covering the Tamiya F4U-1A, wheels and brass landing gear legs for the Fw 190A/F from Revell, also in 1/32nd scale, bombs and racks for our B.534, and also other sets, including BIGSIN FOR Tamiya's F-16C in 1/72nd. Not to be missed are the BIG ED sets that cover the 32nd scale F4U-1A, 48th scale Fw 190A-8 (Eduard), Tornado (Revell) and Whirlwind (Trumpeter), and the 72nd scale MiG-15 (Eduard). Naval subjects are represented by the 1/200 scale Hornet.

We have completed our revisions to the Bf 109G-6 in 1/48th scale. Over the course of May, we will introduce you to the kit via our Facebook page, which will no doubt turn out to be a good reason to watch the page. And with that, my friends, I wish you an inspirational read of the current newsletter, pleasurable modeling, and enjoyable experiences concerning all the many events planned to commemorate the 70th anniversary of the end of the war in Europe!

Happy Modeling!
Vladimir Sulc





MiG-21MF

LOKSCHUPPEN

4605

JAN BOBEK'S RABBIT-HUTCH

Or collection in favor of the Czechoslovak veterans from WW2

Since the time I have been drawing bunnies and writing articles for Eduard (formerly I wrote for REVI and HPM) , I got used to two things.

One is that people confuse me with Honza Bobek from HGW (and not only strangers, but also our mutual friends!!), who also cooperates with Eduard… so you can surely imagine how funny situations occasionally arise, especially in the accounting department of Eduard.

Secondly, people think I can draw virtually anything.

Few times already, I was „speedpainting" bunnies for Eduard and Eduard customers. For example during the Eduard open door event (Novemberfest) and also at the IPMS NATS in Virginia in 2014, but here only for the BFC members (it was a surprise prepared for them and they were thrilled).

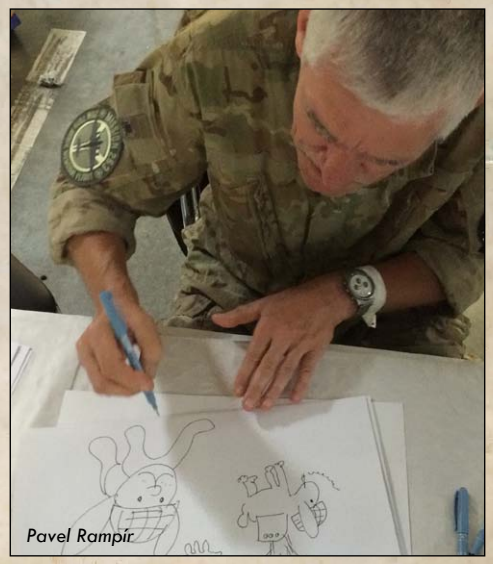
People want me to draw all sorts of things. And I can draw many topics, but some need a bit of preparation, after all, I am not a walking encyclopedia. I remember, for example, a very specific wish: „ draw me a rabbit riding a giraffe" .. or even better „ draw me a chihuahua .. without the rabbit" !! This task simply could not have been done without a picture the customer had to find in his smartphone.

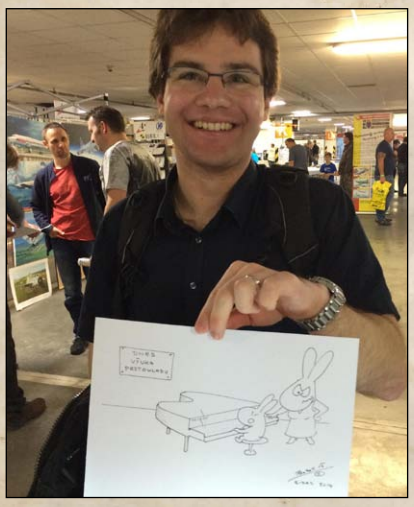
So when Eduard wanted to include bunny drawing at E-day event 2014, there have been several ideas on the table how to handle this. Draw the rodents only for BFC members .. or turn this opportunity into something beneficial. Some time ago, I managed to persuade the publicist and my friend Pavel Vančata to lead a section in REVI about Czechoslovak pilots in Foreign Service. And in case of Eday 2014, I had similar thoughts – towards our veterans.

I suggested, that there would be a voluntary fee for every bunny drawing, which will then be passed to „Ceskoslovenska obec legionarska" (association of Czechoslovak Foreign Service soldiers) to be used in favor of the Czechoslovak WW2 veterans. Eduard agreed. A banner has been made and „Jan Bobek´s rabbit-hutch" was born. My friends, aviation artists Pavel Rampír and Vláda Urbanek curiously waited for the results (from their nearby stands). Not to be forgotten, Jan Zdiarsky from Eduard brought a mysteriously looking old wooden chest, in which the voluntary fees have been gathered and the veterans from the association also agreed to this whole idea.

To begin with, I drew a czech-english poster in the bunny collection theme, and soon I had

Vladimír Urbánek


Pavel Rampír



a queue of people waiting for their chance to have a rabbit by their own wish and another bunch of people watching what is going on. A two day marathon started. I was only able to pop to the toilet few times or get myself a bit of food. At the end of those two days, I finished eighty fairly detailed drawings and nearly ten thousand CZK (nearly 500USD) in the chest. It was more than I hoped for. Amongst the favourite „customers" were little boys who have come up with a clear vision of what should be in their picture. They knew that Mustang or Spitfire should be the winner and they emptied their entire allowance into the chest. I don't care how much it was, but these boys gave the veterans all they had. This was really an amazing feeling.

Of course, many adults came as well, often Czech people, and there was time for a chat during the work. I have also noticed some people only passed by and contributed to the collection. I would like to thank to all of them. But there were also a lot of foreigners, our Slovak brothers, also British, Germans, Poles, Hungarians, Russians and Kazakhs. I hope I have not forgotten anybody. And here I would especially like to point out one of the Russian modellers who came with a blueprint of Il-2 Sturmovik , explaining that his grandfather flew this aircraft and asking me to draw a composition with rabbits flying on top Sturmovik, releasing carrot rockets towards Tiger tanks. I am not sure what would have his granddad said to this, but me and the Russian modeller as well really liked it and even made a photo together. He then helped me with the communication with another Russian visitors interested in our bunnies.

Finally, I have contributed to the collection too. I forced Vlada Urbanek and Pavel Rampir (using only a slight force), to draw their own rabbits and under the oath that they will never be shown to anybody, they devoted them to me. For those commemorative artworks I paid the fee into the chest and now I have those unique pieces in my collection. This event even inspired Vláda Urbanek to a similar charitable action of his own.

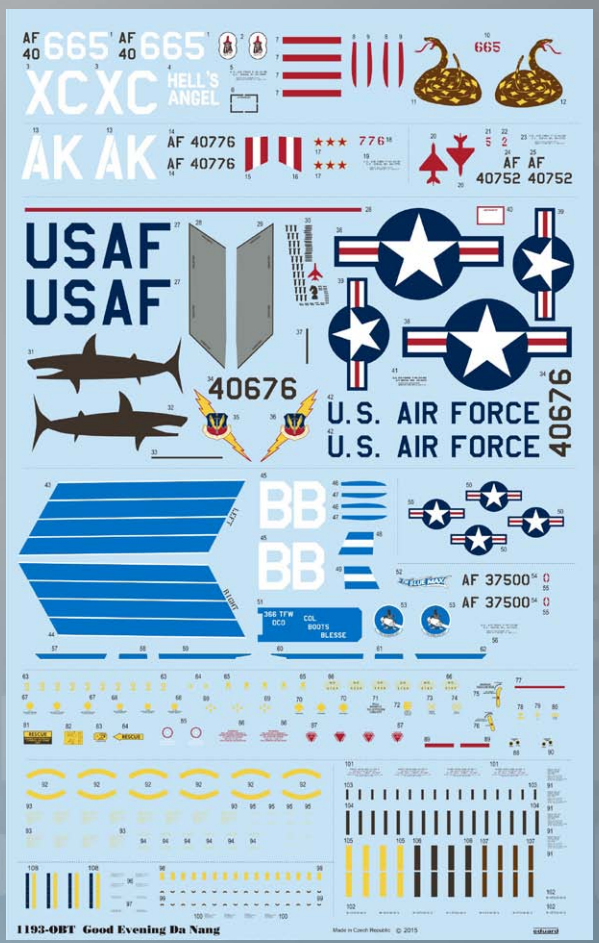
After the event, I was tired, my hands were shaking, but I was very happy. The collection was then passed on to the veteran association together with a poster and a small presentation. Special thanks goes to the leaders of this association, mainly to Filip Prochazka and Milan Mojzis. The whole amount from this collection will go to the war veterans fund from which it will be used for purchase of necessary things for men and woman, who fought for us 70 years ago. Meeting cpt(ret.) Milan Mojzis was surprising for us, thanks to his connection to our recently deceased colleague Petr Stepanek. Both gentlemen were together in the same tank crew within the active reserves of Czech army.

LIMITED EDITION
1/48
Cat. No. 1193

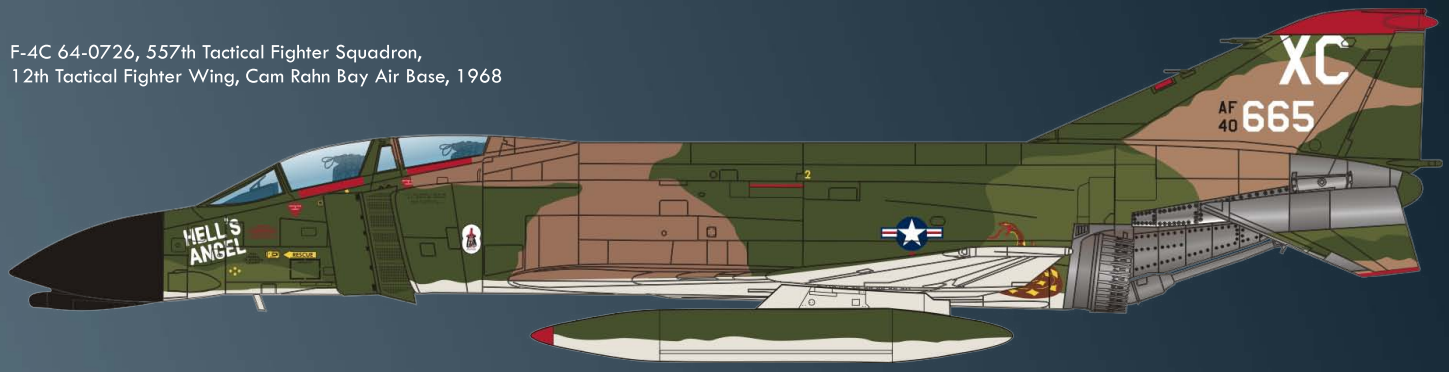
GOOD EVENING DA NANG!

BUY Good Evening Da Nang 1/48

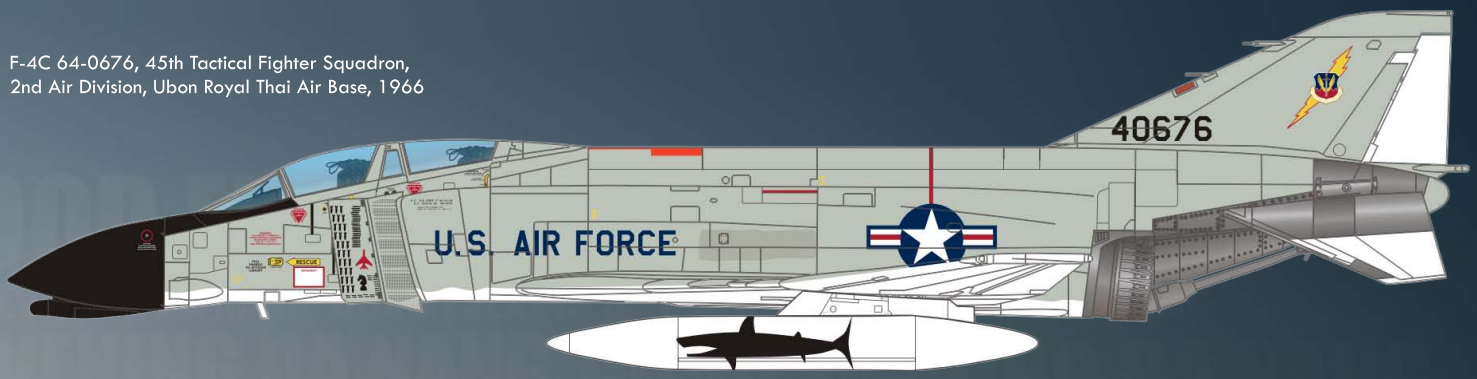
- Large decal sheets for 5 colorful markings of Vietnam War era F-4s
- Eduard Brassin seats, wheels and exhaust nozzles
- Color photo-etched detailing parts and painting mask



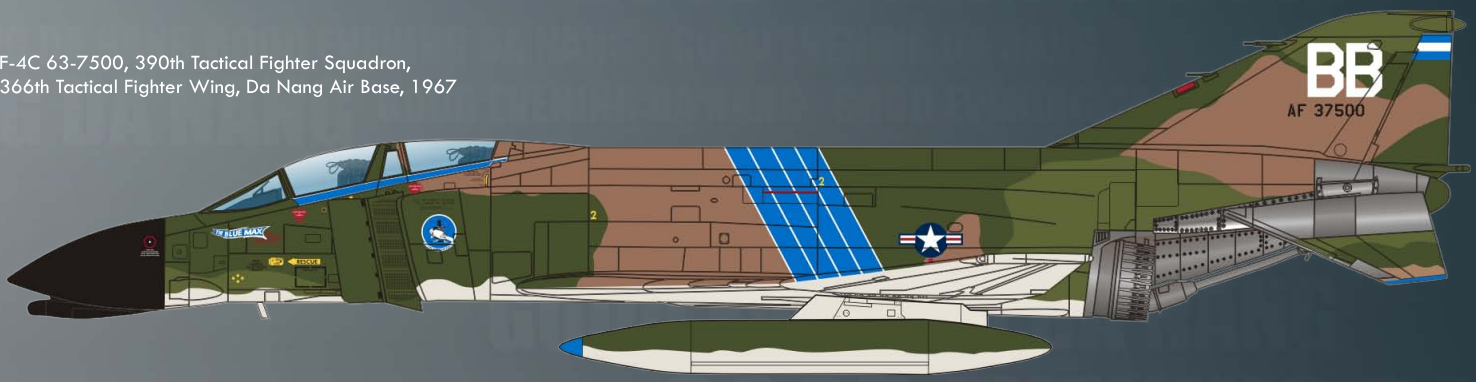
F-4C 64-0726, 557th Tactical Fighter Squadron,
12th Tactical Fighter Wing, Cam Rahn Bay Air Base, 1968



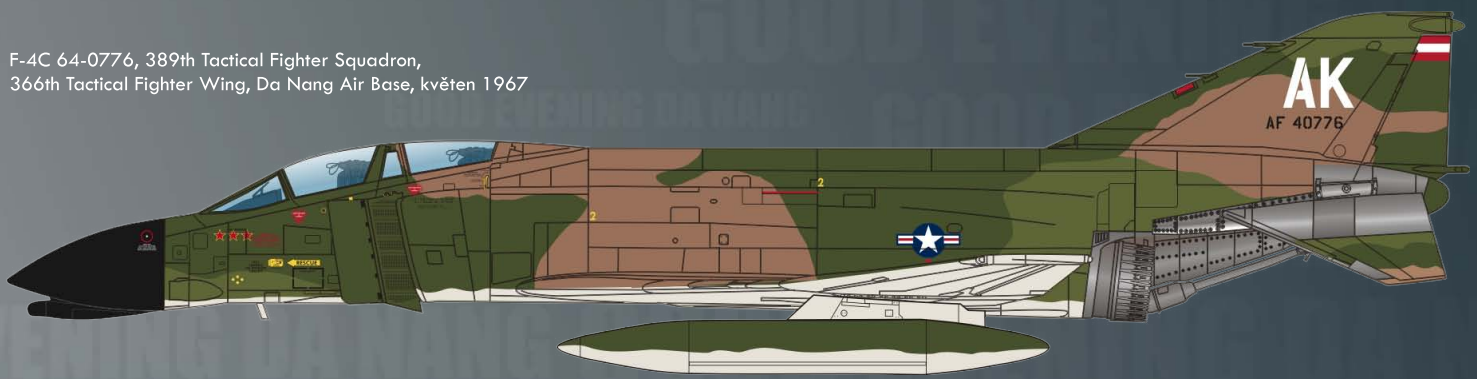
F-4C 64-0676, 45th Tactical Fighter Squadron,
2nd Air Division, Ubon Royal Thai Air Base, 1966



F-4C 63-7500, 390th Tactical Fighter Squadron,
366th Tactical Fighter Wing, Da Nang Air Base, 1967



F-4C 64-0776, 389th Tactical Fighter Squadron,
366th Tactical Fighter Wing, Da Nang Air Base, květen 1967



F-4C 64-0752, 480th Tactical Fighter Squadron,
35th Tactical Fighter Wing, Da Nang Air Base, 1967

REEDITION

I-16 type 24

1/48, Cat. No. 8149

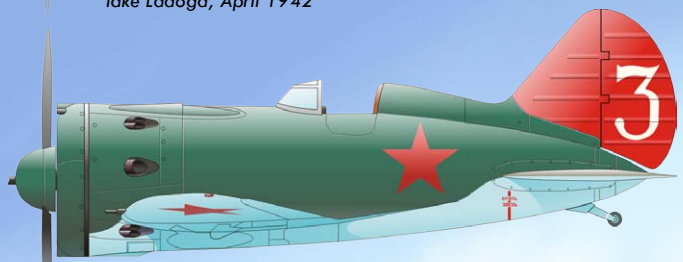
- 4 markings
- Eduard decals
- photo-etched set and painting mask

BUY I-16 type 24 1/48

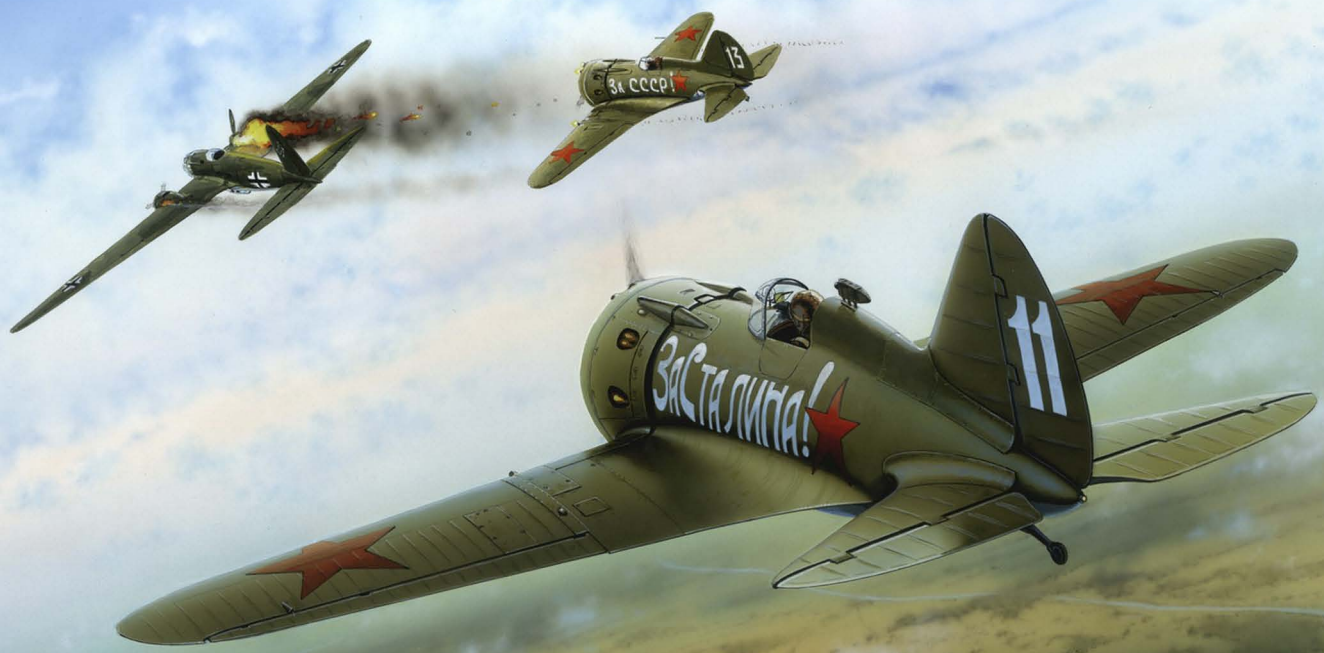
Boris F. Safonov, 72. SAP, Northern fleet, Summer 1941

Genadij Tsokolajev, 4.GIAP, Baltic fleet, lake Ladoga, April 1942

Lt. Krichevskiy, 254. IAP, Leningrad front, 1942



Lev L. Shestakov, 69. IAP, Odessa, Summer 1941



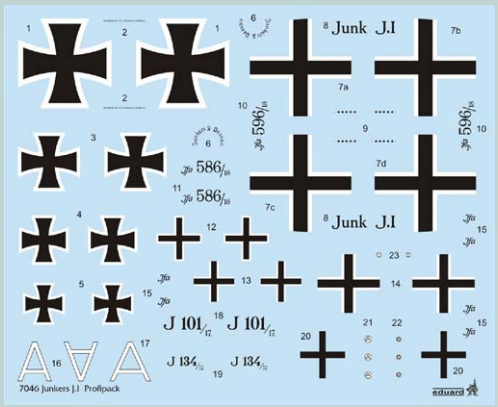
REEDITION

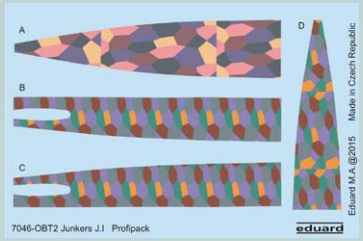
Junkers J.I

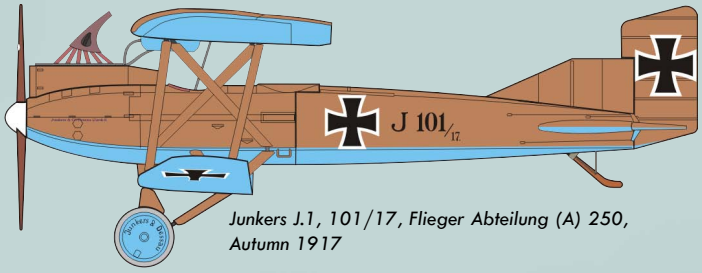
1/72, Cat. No. 7046

- 4 markings
- Eduard decals
- photo-etched set

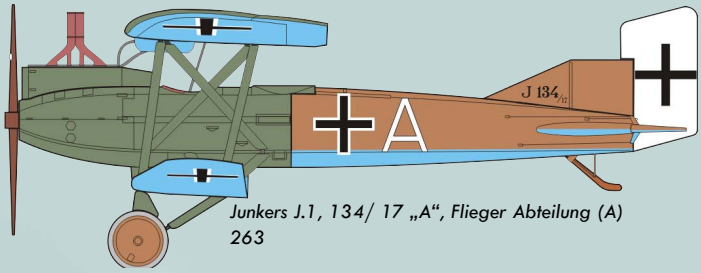
BUY Junkers J.I 1/72



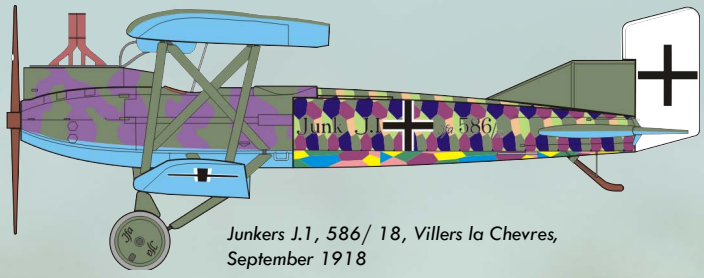




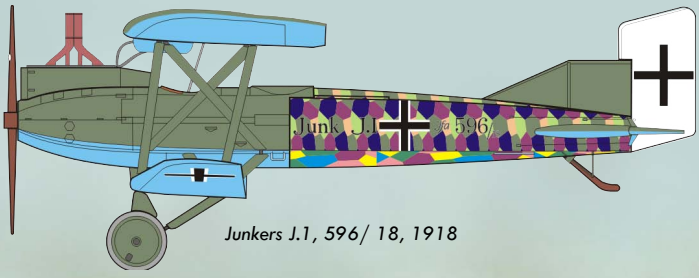
Junkers J.1, 101/17, Flieger Abteilung (A) 250, Autumn 1917



Junkers J.1, 134/ 17 „A“, Flieger Abteilung (A) 263



Junkers J.1, 586/ 18, Villers la Chevres, September 1918

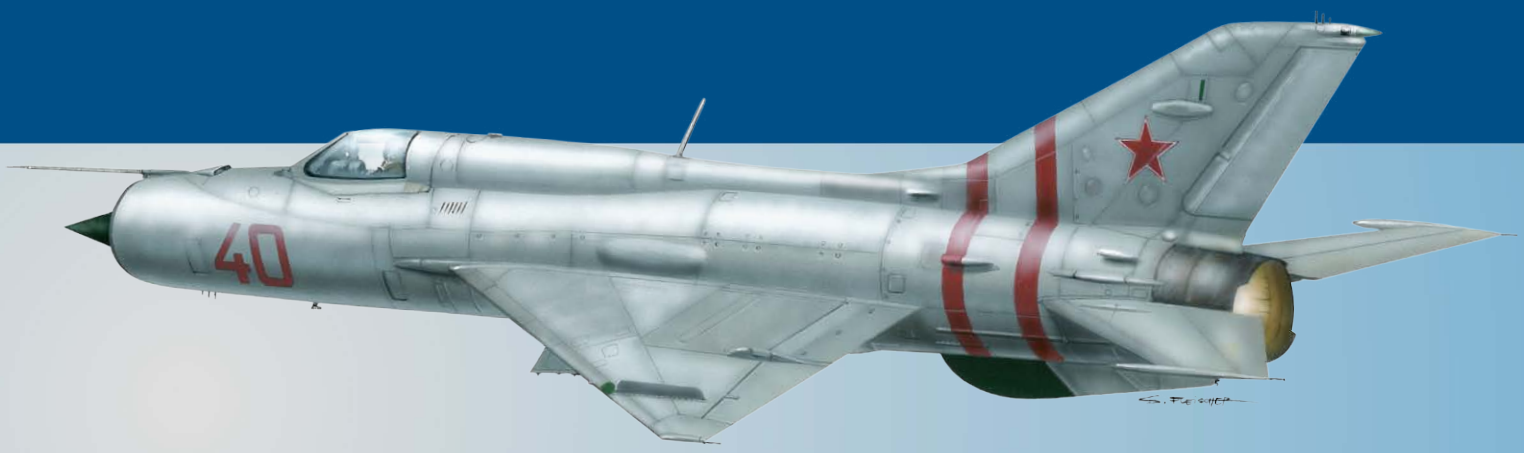


Junkers J.1, 596/ 18, 1918

MiG-21PF

1/48, Cat. No. 84127

WEEKEND edition



- 2 markings
- Eduard decals
- SUPERFABRIC seatbelts

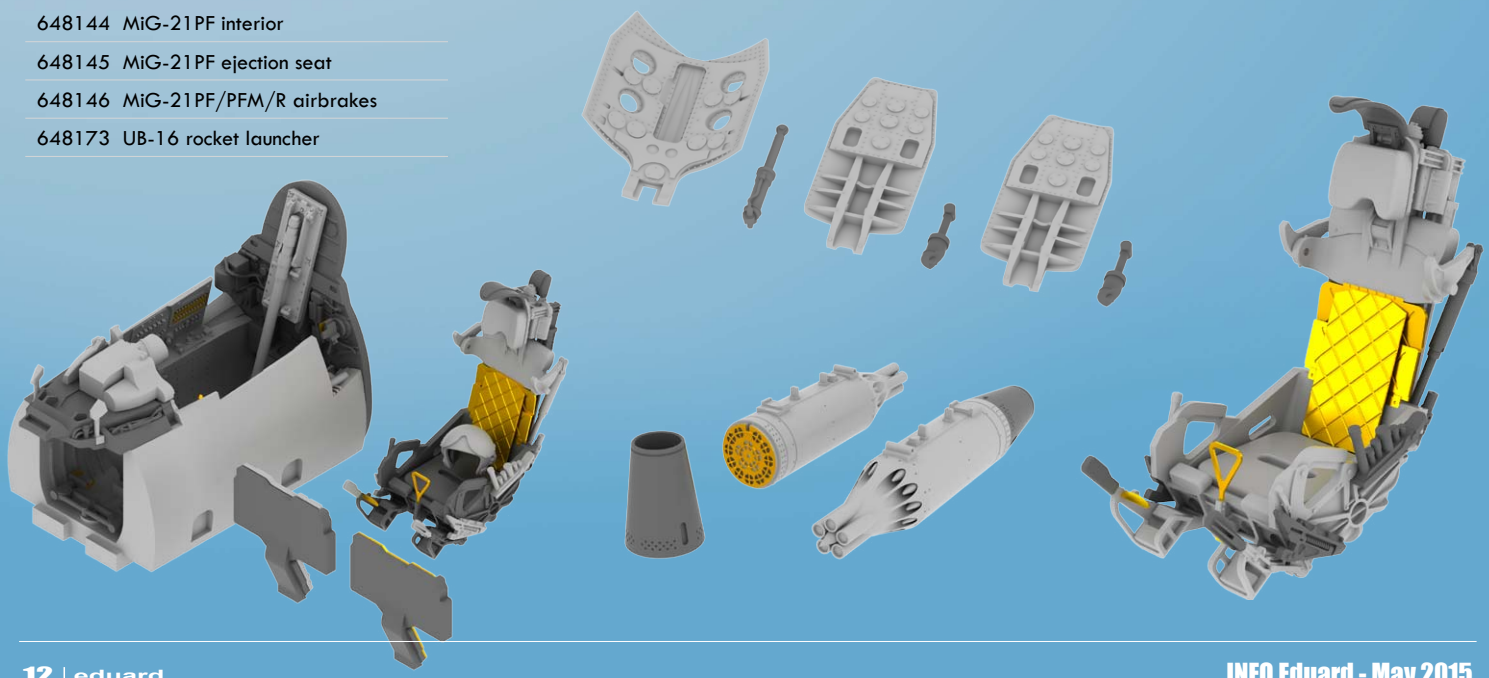
BUY MiG-21PF 1/48

Soviet Air Force, Ceske Budejovice Air Base, Czechoslovakia, late August, 1968

Serial Number 761008, Jagdfliegergeschwader 2, German Democratic Republic, Trollenhagen Air Base,

RECOMMENDED:

648144	MiG-21PF interior
648145	MiG-21PF ejection seat
648146	MiG-21PF/PFM/R airbrakes
648173	UB-16 rocket launcher

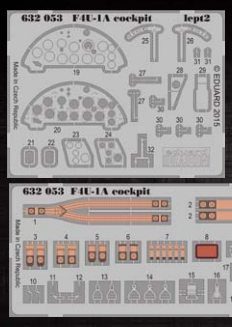


eduard BRASSIN

632053
F4U-1A cockpit
1/32

Brassin cockpit set for F4U-1A in 32nd scale by Tamiya.

Set contains:
- resin: 51 parts
- decals: yes
- photo-etched details: yes (color)



BUY F4U-1A cockpit 1/32

632057
Fw 190 undercarriage legs BRONZE
1/32 Revell

Brassin set of bronze legs for Fw 190 in 32nd scale by Revell. Set includes 2 bronze legs and 2 resin wheel bay doors.

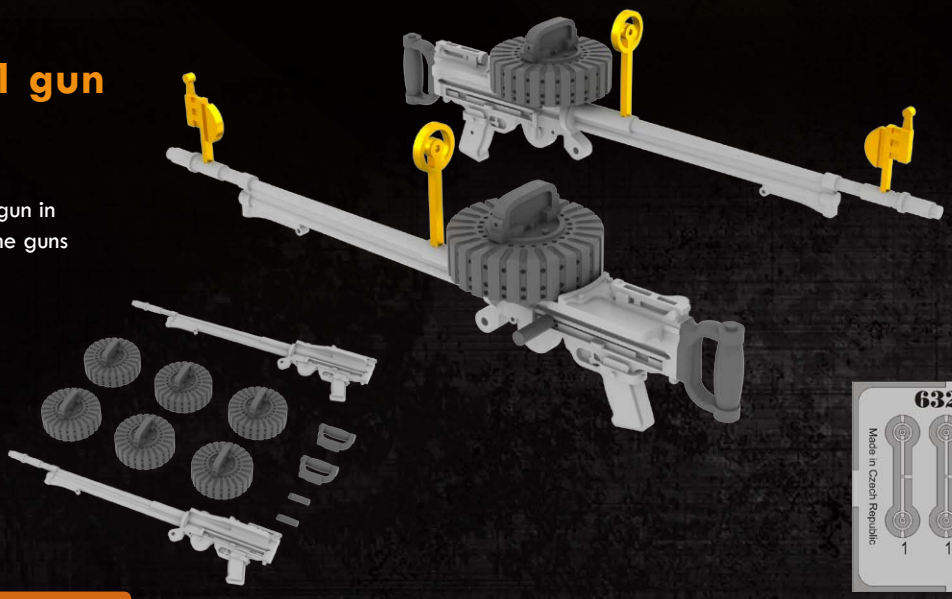
Set contains:
- resin: 2 parts
- bronze: 2 parts
- decals: no
- photo-etched details: no

BUY Fw 190 undercarriage legs BRONZE 1/32

632054
Lewis Mk.III WW1 gun
1/32 Hasegawa

Brassin set of Lewis Mk.III WW1 gun in 32nd scale. Set contains 2 machine guns and 6 magazines.

Set contains:
- resin: 12 parts
- decals: no
- photo-etched details: yes
- painting mask: no



BUY Lewis Mk.III WW1 gun 1/32

632055
Fw 190F-8 wheels
1/32 Revell

Brassin wheels for Fw 190F-8 in 32nd scale by Revell. Set contains 2 main wheels and 1 tail wheel.

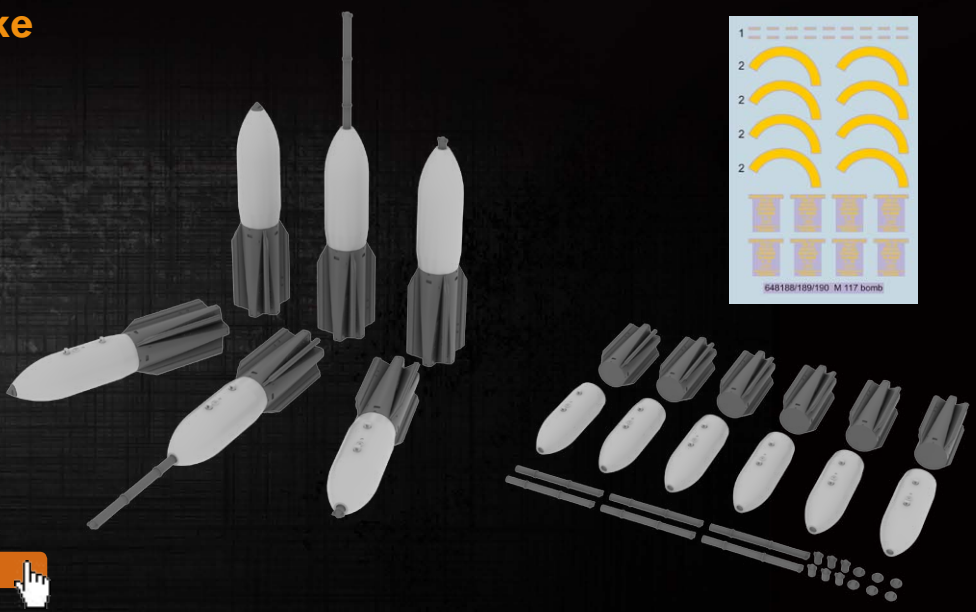
Set contains:
- resin: 7 parts
- painting mask: yes
- decals: no
- photo-etched details: no

BUY Fw 190F-8 wheels 1/32

648190
M 117 bomb w/airbrake
1/48

Brassin set of M 117 bombs with airbrake in 48th scale. Set includes 6 bombs.

Set contains:
- resin: 30 parts
- decals: yes
- photo-etched details: no
- painting mask: no

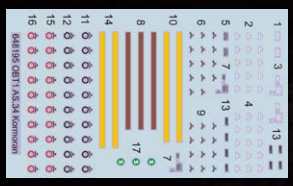


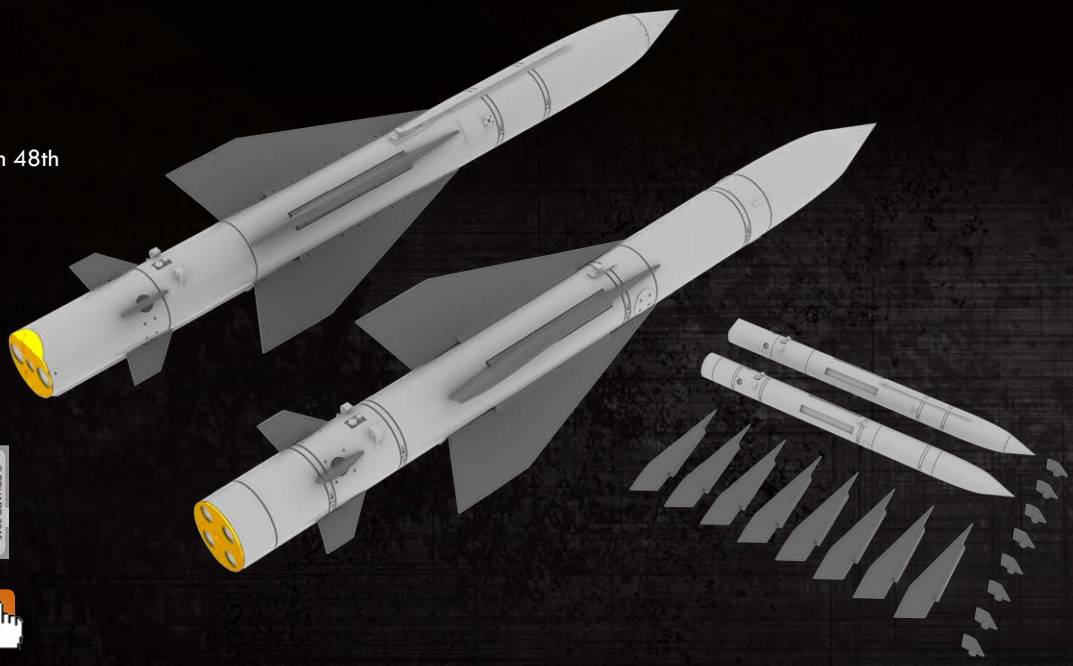
BUY M 117 bomb w/airbrake 1/48

648195
AS.34 Kormoran
1/48

Brassin set of AS.34 Kormoran missiles in 48th scale. Set includes 2 missiles.

Set contains:
- resin: 18 parts
- decals: yes
- photo-etched details: yes



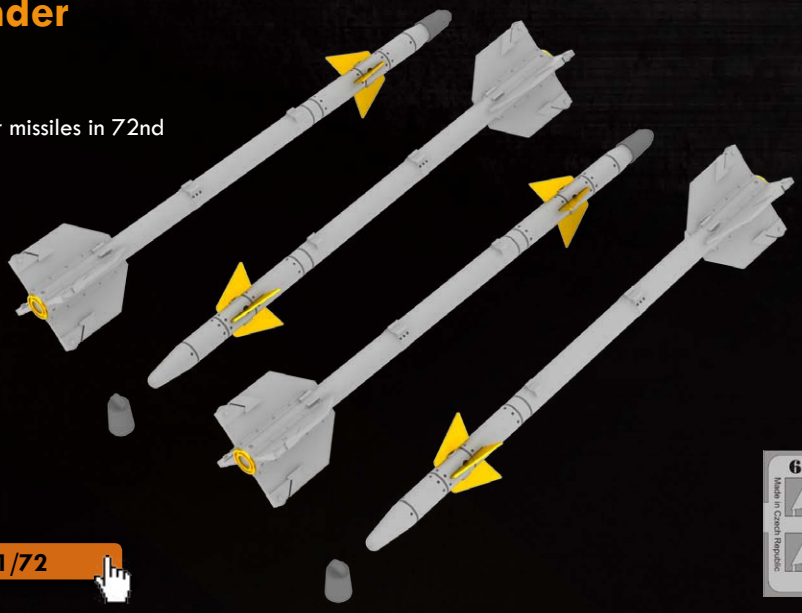


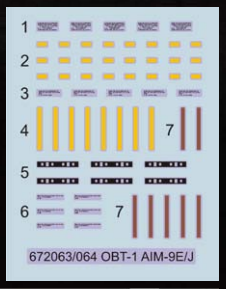
BUY AS.34 Kormoran 1/48

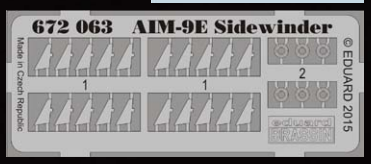
672063
AIM-9E Sidewinder
1/72

4 pieces of AIM-9E Sidewinder missiles in 72nd scale.

Set contains:
- resin: 8 parts
- decals: yes
- photo-etched details: yes





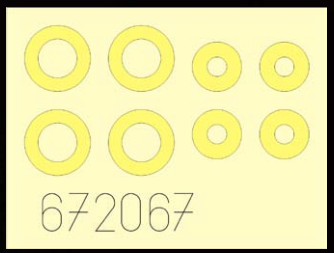


BUY AIM-9E Sidewinder 1/72

672067
JAS-39 wheels
1/72 Revell

Brassin set of JAS-39 wheels in 72nd scale for kit by Revell. Set includes 2 main wheels and 2 front wheels.

Set contains:
- resin: 4 parts
- decals: no
- photo-etched details: no
- painting mask: yes



BUY JAS-39 wheels 1/72

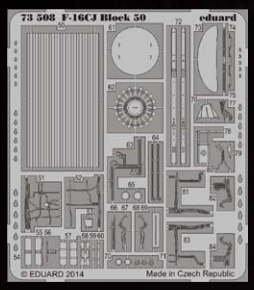
672069
B.534 bombs & rack
1/72 Eduard

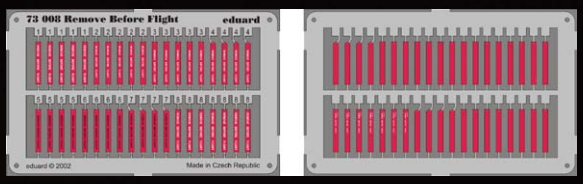
Brassin set of B.534 bombs & racks for Avia B.534 in 72nd scale by Eduard. Set includes 6 bombs with racks.

Set contains:
- resin: 6 parts
- decals: no
- photo-etched details: no
- painting mask: no

BUY B.534 bombs & rack 1/72

SIN67205
F-16CJ BLOCK 50
1/72 Tamiya





Collection of 4 individual Brassin sets for F-16CJ Block 50.

73008 Remove Before Flight
73508 F-16CJ block 50 S.A.
CX394 F-16CJ block 50 1/72
672040 F-16CJ Block 50 wheels
672045 F-16CJ Block 50 exhaust nozzle
672047 F-16CJ Block 50 ejection seat
672065 F-16 airbrakes

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

BUY F-16CJ BLOCK 50 1/72

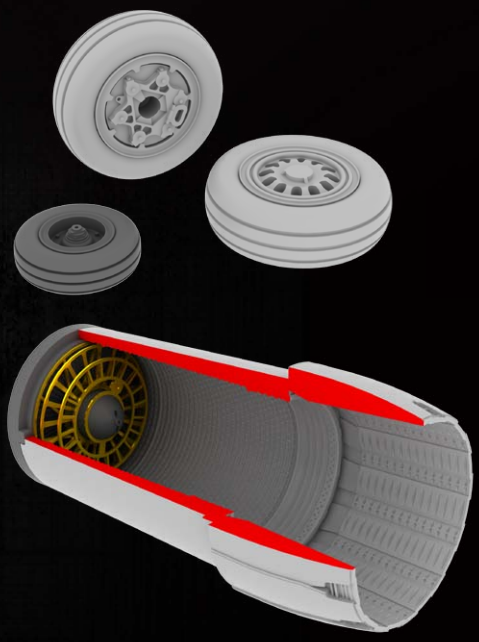
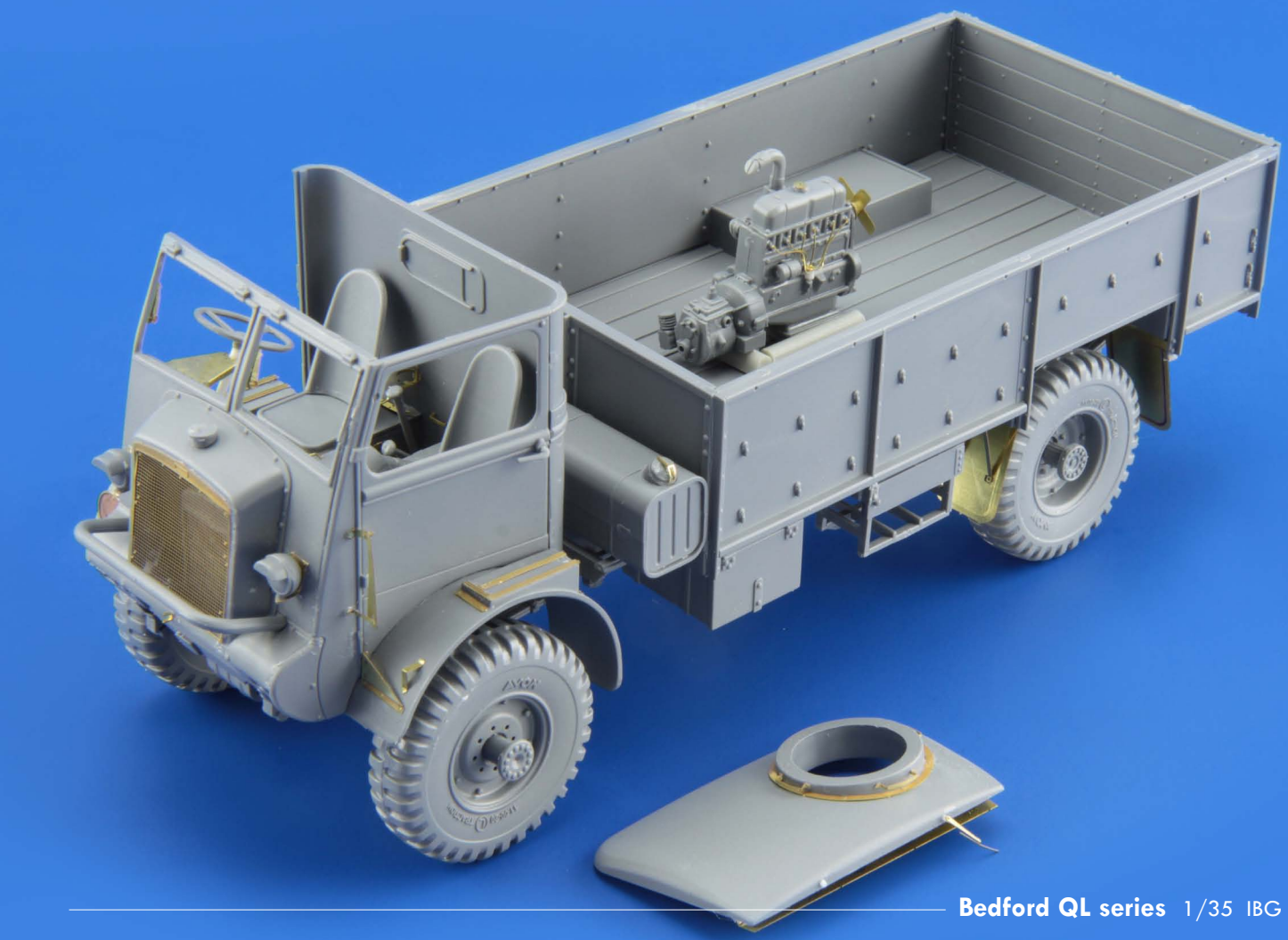


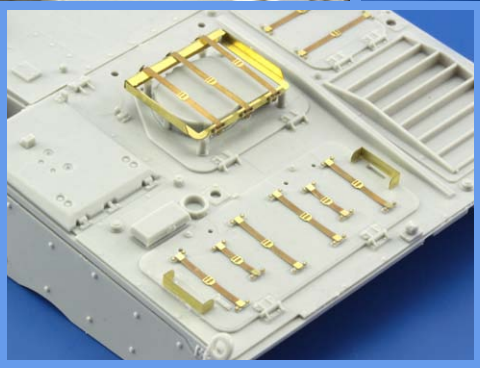
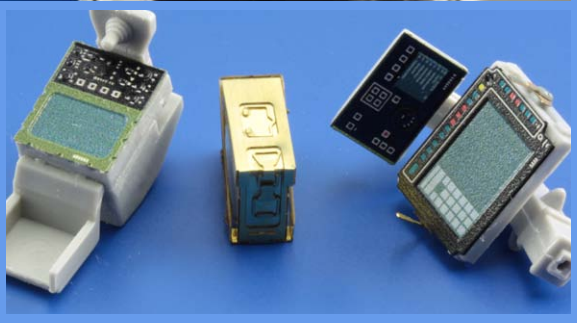
PHOTO-ETCHED SETS AND MASKS

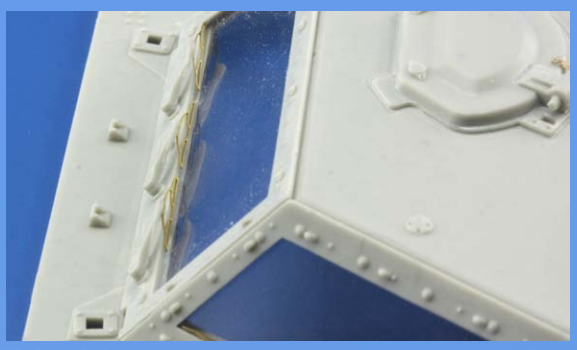
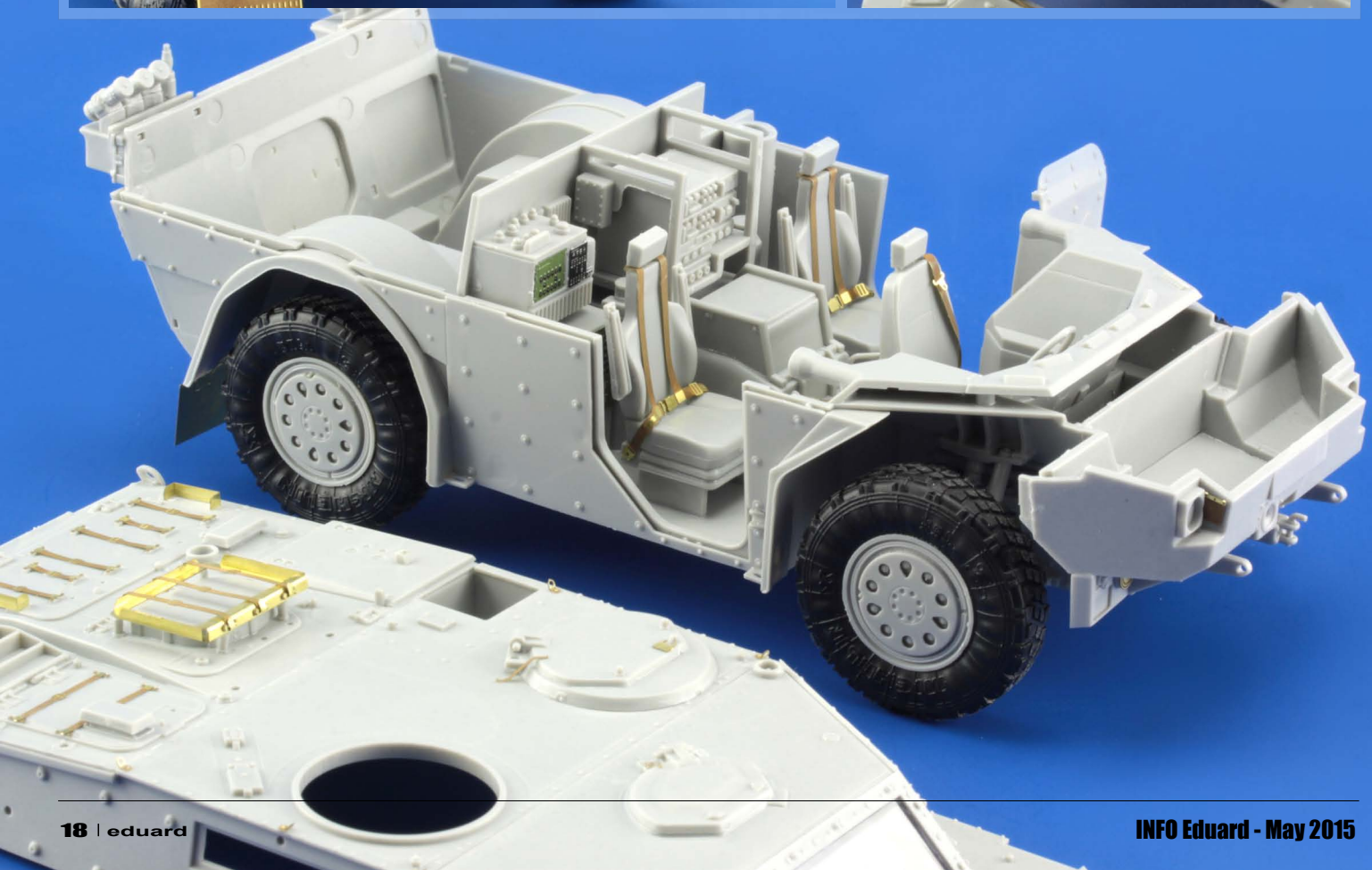
SELECTED



Bedford QL series 1/35 IBG (36315)

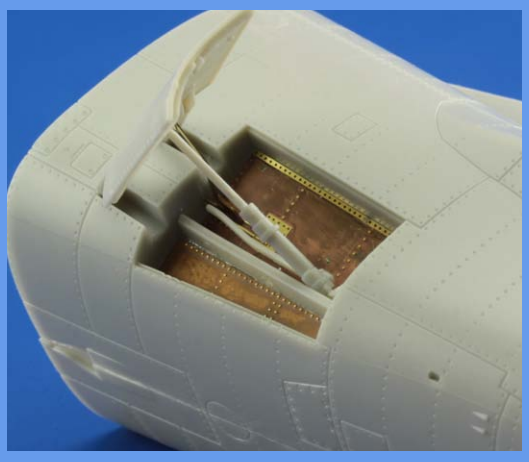
Fennek LGS 1/35 Trumpete (36316)

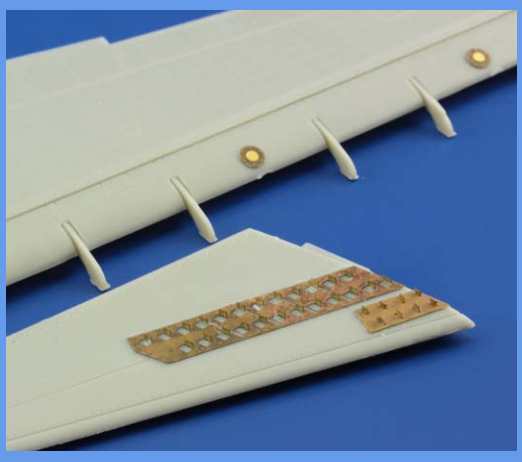



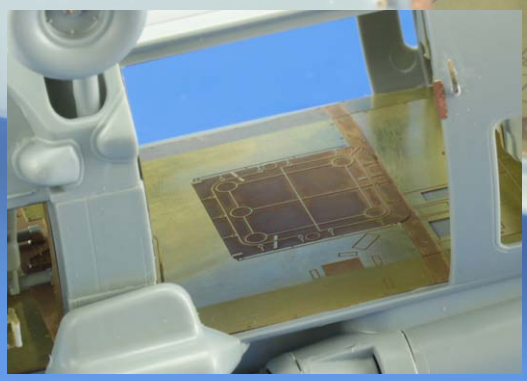



MH-60S exterior 1/35 Academy (32370)

F-86D exterior 1/32 KittyHawk (32369)



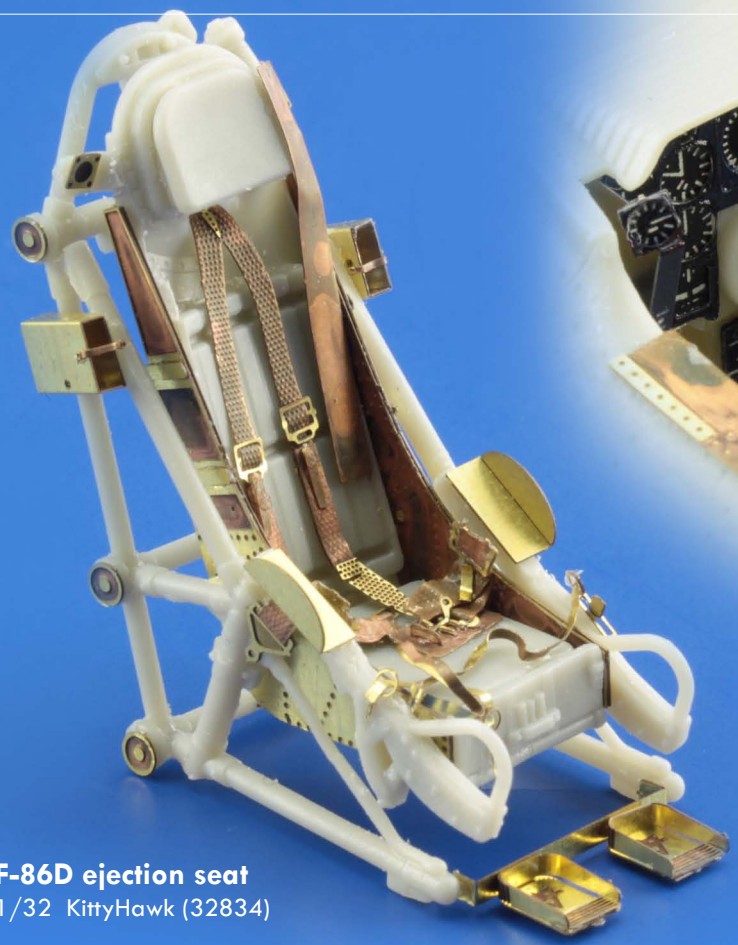




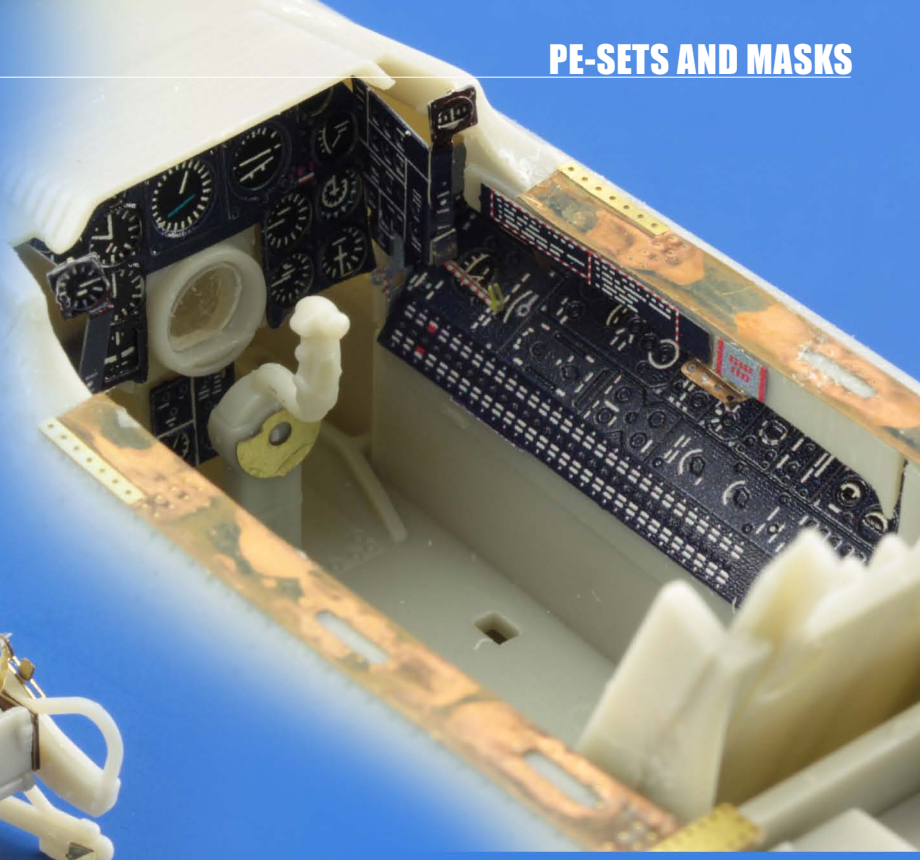
MH-60S interior 1/35 Academy (32371)

MH-60S cockpit S.A. 1/35 Academy (32837)

MH-60S seatbelts
1/35 Academy (32838)



F-86D ejection seat
1/32 KittyHawk (32834)



F-86D interior S.A. 1/32 KittyHawk (32835)

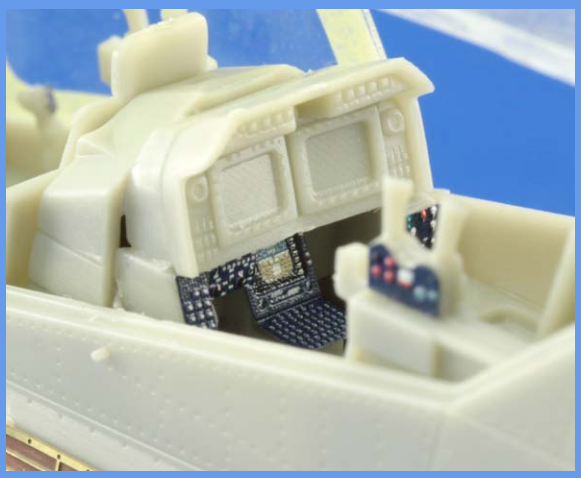
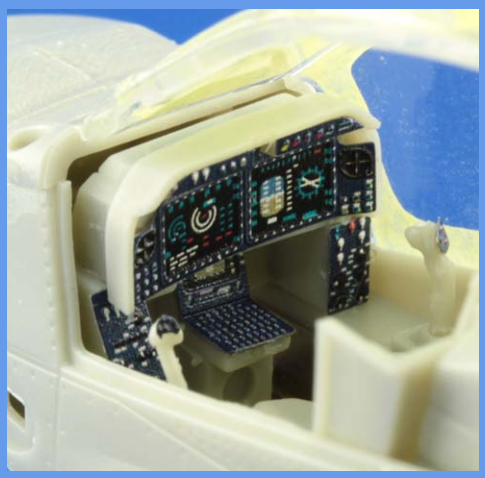
MiG-23MLD exterior 1/48 Trumpeter (48842)

AH-1Z exterior 1/48 Kittyhawk (48845)

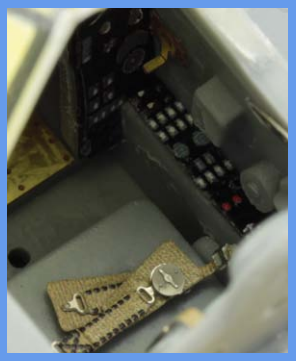
PAINTING MASK
AH-1Z 1/48 Kittyhawk
(EX461)

MiG-23MLD S.A. 1/48 Trumpeter (49716)

AH-1Z interior S.A. 1/48 Kittyhawk (49718)

Hornet F.1 S.A. 1/48 Hobby Boss (49719)



BIG ED

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

53128 USS Hornet CV-8 část 1 - cranes (BIG5327)

48830 Whirlwind exterior (BIG49122)

48812 Tornado IDS exterior (BIG49123)

BIG5327 USS HORNET CV-8 1/200 MER

BIG3349 F4U-1A 1/32 TAMIYA

BIG49122 WHIRLWIND 1/48 TRUMPETER

BIG49122 WHIRLWIND 1/48 TRUMPETER

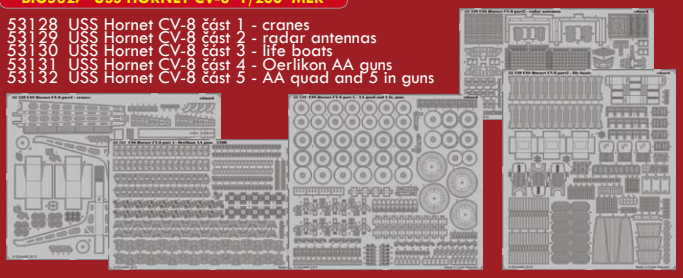
BIG49123 TORNADO IDS 1/48 REVELL

BIG49124 Fw 190A-8 1/48 EDUARD

BIG7295 MiG-15/MiG-15bis 1/72 EDUARD

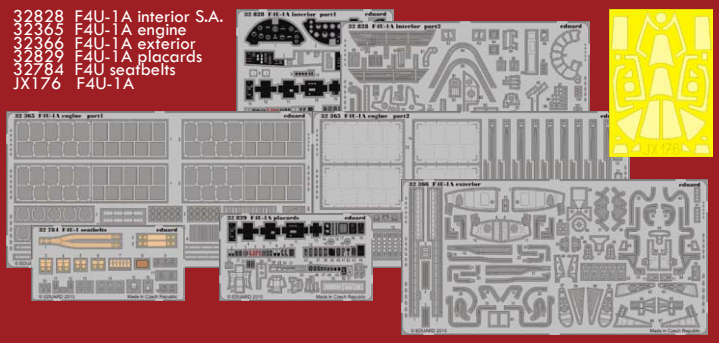
BIG5327 USS HORNET CV-8 1/200 MER

53128 USS Hornet CV-8 část 1 - cranes
53129 USS Hornet CV-8 část 2 - radar antennas
53130 USS Hornet CV-8 část 3 - life boats
53131 USS Hornet CV-8 část 4 - Oerlikon AA guns
53132 USS Hornet CV-8 část 5 - AA quad and 5 in guns



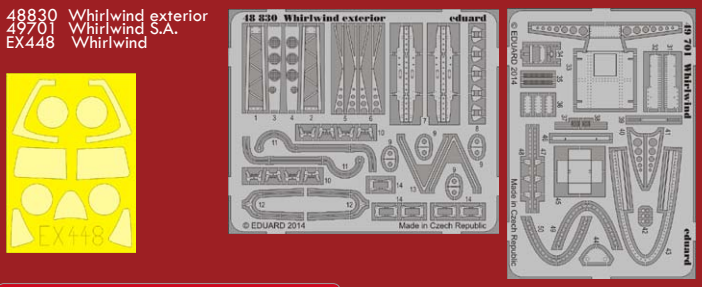
BIG3349 F4U-1A 1/32 TAMIYA

32828 F4U-1A interior S.A.
32365 F4U-1A engine
32366 F4U-1A exterior
32829 F4U-1A placards
32784 F4U seatbelts
JX176 F4U-1A



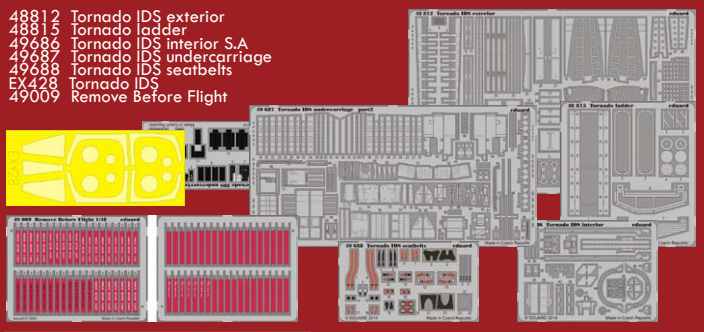
BIG49122 WHIRLWIND 1/48 TRUMPETER

48830 Whirlwind exterior
49701 Whirlwind S.A.
EX448 Whirlwind



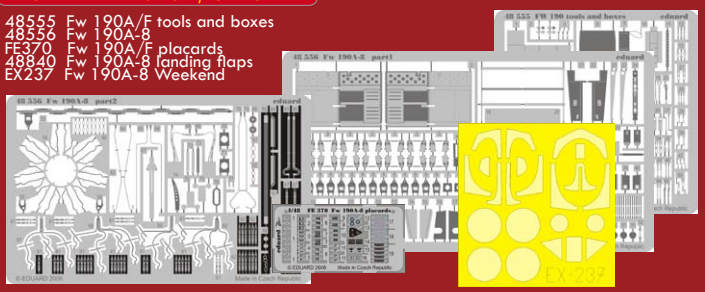
BIG49123 TORNADO IDS 1/48 REVELL

48812 Tornado IDS exterior
48815 Tornado ladder
49686 Tornado IDS interior S.A
49687 Tornado IDS undercarriage
49688 Tornado IDS seatbelts
EX428 Tornado IDS
49009 Remove Before Flight



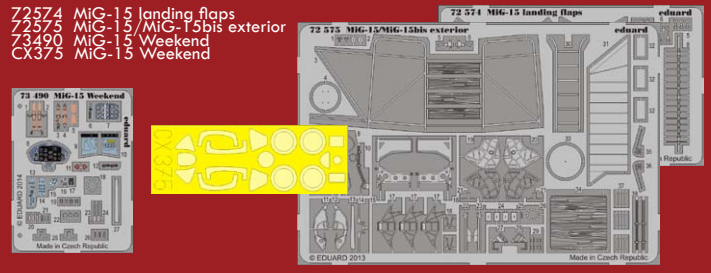
BIG49124 Fw 190A-8 1/48 EDUARD

48555 Fw 190A/F tools and boxes
48556 Fw 190A-8
FE370 Fw 190A/F placards
48840 Fw 190A-8 landing flaps
EX237 Fw 190A-8 Weekend



BIG7295 MIG-15/MIG-15BIS 1/72 EDUARD

72574 MiG-15 landing flaps
72575 MiG-15/MiG-15bis exterior
73490 MiG-15 Weekend
CX375 MiG-15 Weekend



RELEASES MAY 2015

KITS

8149	I-16 Typ 24	1/48	ProfiPACK
7046	Junkers J.I	1/72	ProfiPACK
1193	Good Evening Da Nang	1/48	Limited Edition
84127	MiG-21PF	1/48	Weekend

PE-SETS

36315	Bedford QL series	1/35	IBG
36316	Fennek LGS	1/35	Trumpeter
36317	Jagdpanzer IV L/48 Schurzen	1/35	Drago
32369	F-86D exterior	1/32	KittyHawk
32370	MH-60S exterior 1/35	1/35	Academy
32371	MH-60S interior 1/35	1/35	Academy
32834	F-86D ejection seat	1/32	KittyHawk
32835	F-86D interior S.A.	1/32	KittyHawk
32836	F-86 seatbelts FABRIC	1/32	KittyHawk
32837	MH-60S cockpit S.A. 1/35	1/35	Academy
32838	MH-60S seatbelts 1/35	1/35	Academy
48840	Fw 190A-8 landing flaps	1/48	Eduard
48841	MiG-23MLD weapons	1/48	Trumpeter
48842	MiG-23MLD exterior	1/48	Trumpeter
48843	F-4C F.O.D	1/48	Eduard
48844	F-4C upgrade set	1/48	Eduard
48845	AH-1Z exterior	1/48	Kittyhawk
49077	MiG-23 seatbelts FABRIC	1/48	Trumpeter
49716	MiG-23MLD S.A.	1/48	Trumpeter
49718	AH-1Z interior S.A.	1/48	Kittyhawk
49719	Hornet F.1 S.A.	1/48	Hobby Boss
73490	MiG-15 Weekend	1/72	Eduard

ZOOMS

33147	F-86D interior S.A. 1/32	1/32	KittyHawk
FE716	MiG-23MLD interior S.A.	1/48	Trumpeter
FE717	MiG-21PF Weekend	1/48	Eduard

MASKS

EX458	MiG-21PF 1/48	1/48	Eduard
EX459	Hornet F.1 1/48	1/48	Hobby Boss
EX460	MiG-23MLD 1/48	1/48	Trumpeter
EX461	AH-1Z 1/48	1/48	Kittyhawk
EX462	F9F-8/8P Cougar	1/48	KittyHawk
JX179	MH-60S	1/35	Academy
JX180	F-86D	1/32	KittyHawk
XT212	Bedford QL series cab windows & wheels	1/35	IBG
XT213	Fennek LGS windows	1/35	Trumpeter

BIG ED

BIG5327	USS HORNET CV-8	1/200	Merit
BIG3349	F4U-1A	1/32	Tamiya
BIG49122	WHIRLWIND	1/48	Trumpeter
BIG49123	TORNADO IDS	1/48	Revell
BIG49124	Fw 190A-8	1/48	Eduard
BIG7295	MiG-15/MiG-15bis	1/72	Eduard

BRASSIN

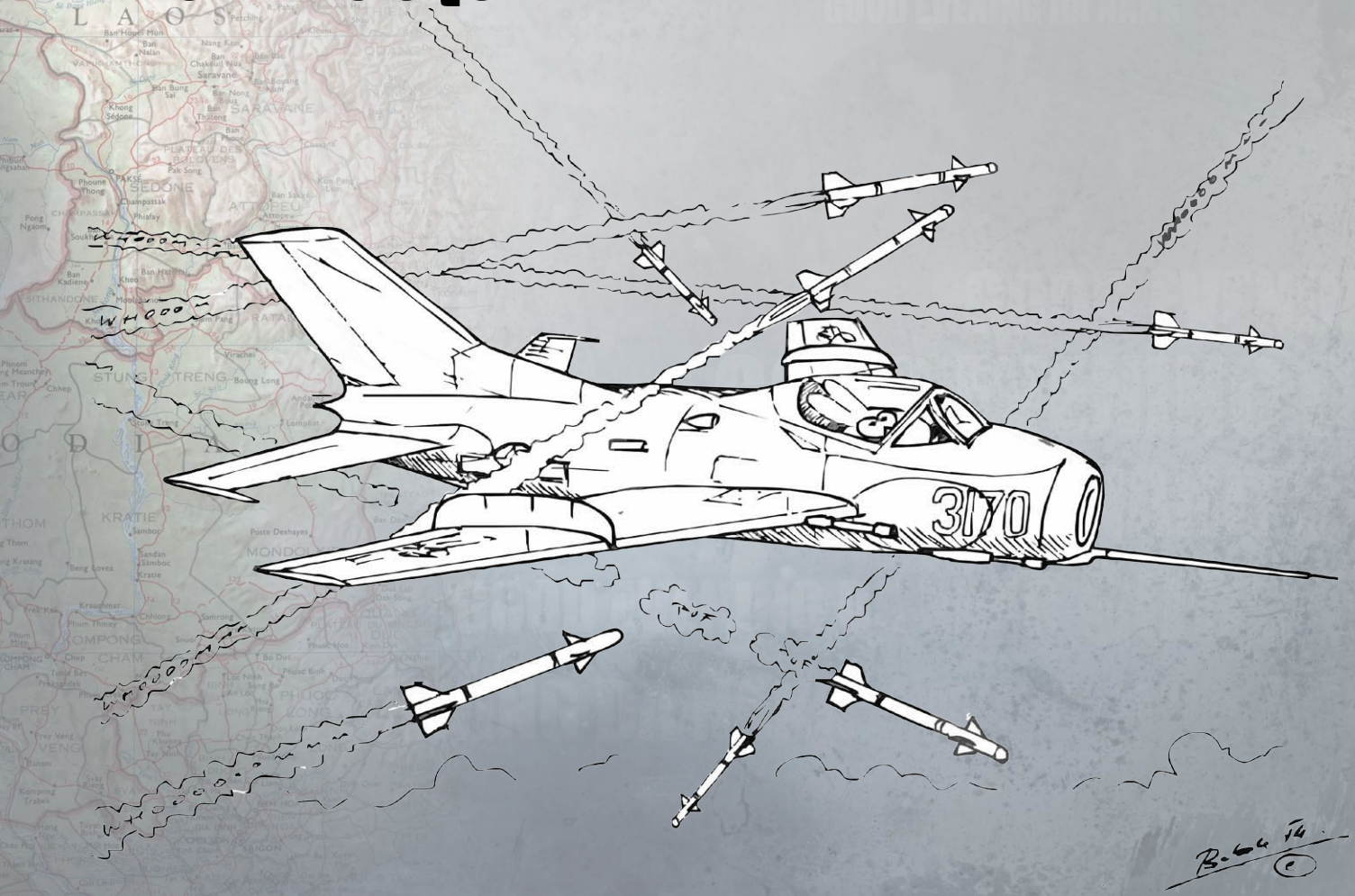
632053	F4U-1A cockpit	1/32	Tamiya
632054	Lewis Mk.III WW1 gun	1/32	Hasegawa
632055	Fw 190F-8 wheels	1/32	Revell
632057	Fw 190 undercarriage legs BRONZE	1/32	Revell
648190	M 117 bomb w/airbrake	1/48	
648195	AS.34 Kormoran	1/48	
672063	AIM-9E Sidewinder	1/72	
672067	JAS-39 wheels	1/72	Revell
672069	B.534 bombs & racks	1/72	Eduard

BIGSIN

SIN67205	F-16CJ BLOCK 50	1/72	Tamiya

BUY / e-shop Eduard

E-BUNNY´S SQUAT



INTERMEDIATE RANGE BALLISTIC MISSILE R-3

MiG-21PFM + 2x R-3S, Panenský Týnec, 1982 (photo: Jaromír Rychtařík)

Tomáš Dedera

HISTORY

The development of the Soviet R-3 missile began in the Vympel design office in 1959, and was based on the Russian evaluation of the American AIM-9B missile. Legend says that the American rocket found its way into Soviet hands, in a rather dubious manner. On 24th of September 1958, there was an armed conflict between Chinese Shenyang J-5 fighters and Taiwanese F-86F Sabres that were accompanying reconnaissance aircraft over continental China. One of the Sidewinders, launched by a Taiwanese aircraft, directly hit the Chinese J-5, however, the head of the missile did not explode, and the Chinese pilot landed safely at his base. Moreover, a number of other Sidewinders also didn't find their targets, and harmlessly fell on Chinese territory.

In actual fact, the acquisition of useable information by the Soviets, was gained in a typically duplicitous manner. The Swedish Air Force had planned to use the Sidewinders as armament for their Draken. Licensed production was in planned for Sweden. A high ranking officer of the Department of Defence, Col. Stig Wennerström, had the complete Sidewinder missile documentation available to him. Regrettably, he was an agent of the Soviet inteligence service GRU, and thus, he forwarded the complete Sidewinder and Draken files to the Soviet side. His treachery, however, was discovered in 1963, and he was jailed after being given a life-sentence. Later, this imprisonment was reduced to 20 years.

The USSR took full advantage of the information that was made available to them, and basically copied AIM-9B Sidewinder. In 1960, serial production had begun, and R-3 missile was introduced as a part of the Soviet armament.

In 1962, the modernized R-3S was the first version manufactured in large numbers. The burn time of the fuel was doubled, thanks to modernisation of the dust pressure accumulator, from an original run time of 11 seconds, up to a much improved 22 seconds. The missile was equipped with an optical proximity and mechanical impact fuse.

The development of the high-altitude R-3R, with semi-active radiolocation guidance, began

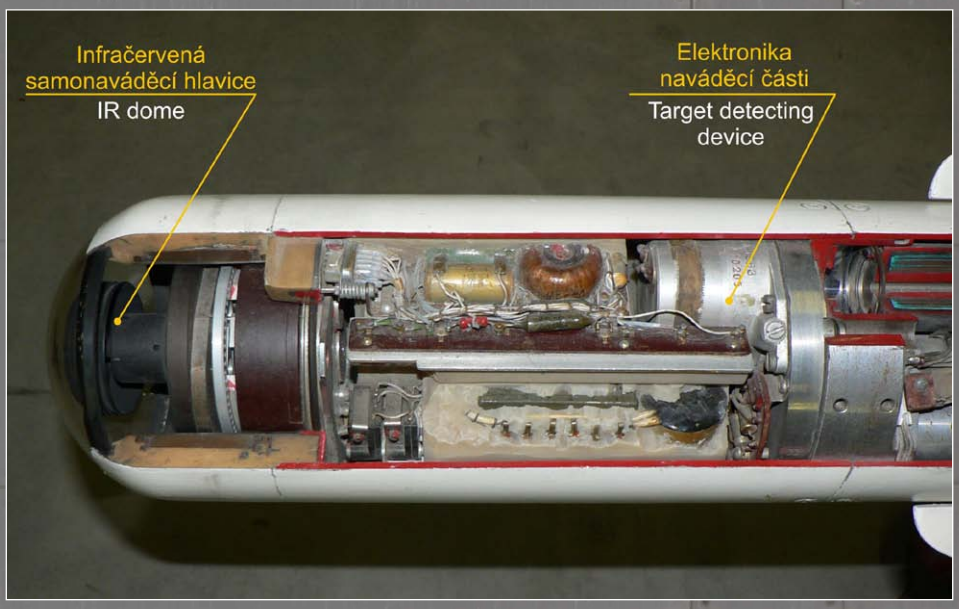
in 1961 (measuring radio waves emitted by a target, and communicating these to the missile). It was introduced as a part of Soviet armament in 1966. For its aiming and guidance, an RP-22 with radiolocation sight was required. This made a radiolocation fuse necessary, instead of the original optical fuse. This version was not generaly introduced into service, but instead, the R-3S version was used in large quantities.

The R-3 missile was produced as the PL-2 in China, and as the A-91 in Romania. Licensed production was also carried out in the former Czechoslovakia, with the Czechoslovak production documentation translated from Russian by Konstrukta Trencin. Final assembly was made carried out by the ADAST Adamov company. The R-3S missile was introduced into the arsenals of more than thirty countries.

APPLICATION

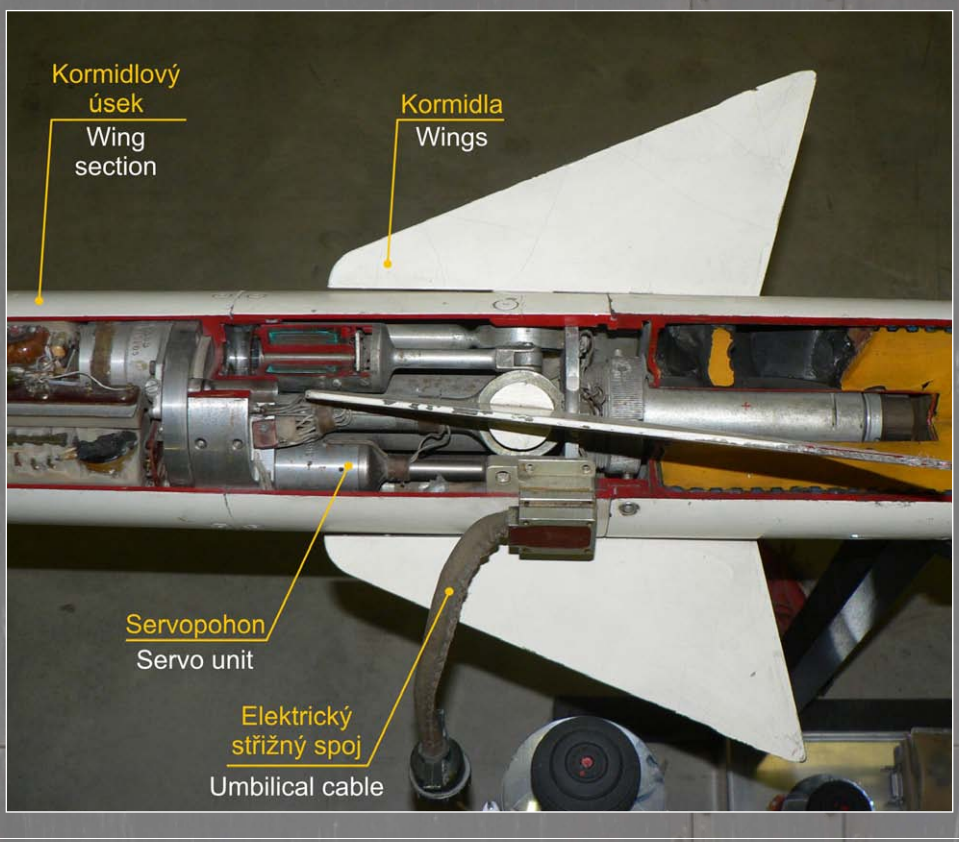
This missile was used for the destruction of both manoeuvring and non- manoeuvring air targets. It was to be used under regular weather conditions, during both day and night, and from the rear targeting hemisphere. The use of this missile against ground targets was also possible.

R-3 missiles were used by MiG-19P (2 pieces), olders versions of MiG-21F, PF (2 pieces), MiG-21MA, MF (4 pieces), L-39ZA (2 pieces). R-3S missiles were also used in the armament of the MiG-23MF, ML, MiG-27, Su-15 and Su-17/20/22 and other types. The missiles were attached to the pylons with APU-13M1 dispensing devices.



PARAMETERS

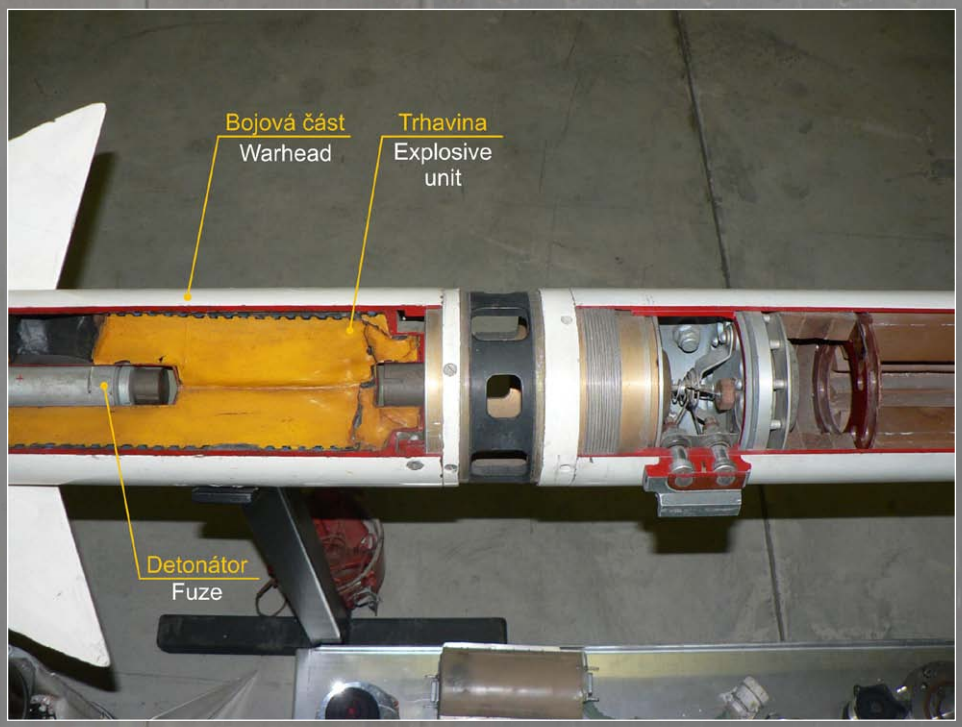
Parameter	R-3S	R-3R
Missile length (mm)	2840	3420
Missile diameter (mm)	127	
Rudder span (mm)	362	
Wing span (mm)	530	
Missile weight (kg)	75,3	82,8
Warhead weight (kg)	11,3	
Target destruction height (m)	50 - 21500 (S)	
	1000 - 20000 (R)	
Effective distance of shot (km)	1,3 - 9	1 - 9
Max. speed of target (km/s)	1600	
Max. acceleration of target (g)		3

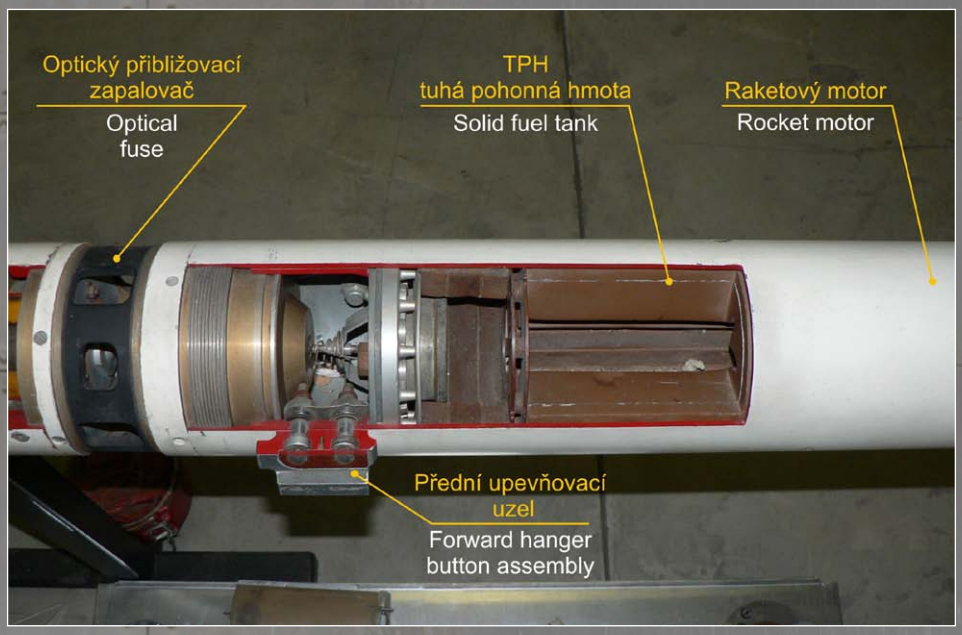


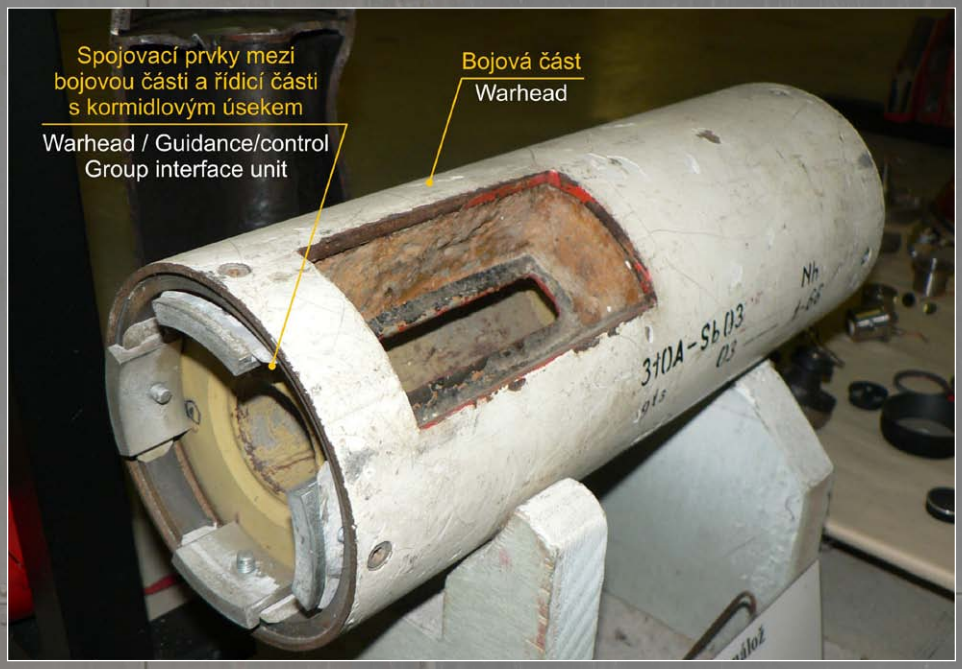
DESCRIPTION OF MISSILE

The missile is of a “canard” aerodynamic configuration (rudders in front, fixed wings in the back section), and a modular construction, consisting of five parts.

An infrared homing system is located in the front of the missile, and can capture the target from anywhere between 15 meters to 7.6 kilometers. In the second section of the missile are the gas generators, turbogenerator and servo-motors for controlling the rudders of the missile. The third section contains the warhead, weighing 11.3 kg. A fourth section contains the impact fuse and contactless optical proximity fuse, weighing 3.1 kg, and with a detection distance of 9 meters.







Lastly, in the fifth section, the rocket engine is installed. This single-chamber engine uses solid fuel, with a mass of 21.8 kg. The warhead combines the effects of a the resultant pressure wave, with shell fragmentation, and includes a non-contact optical (R-3S) or radiolocating (R-3R) fuse. Homing of the R-3S is possible thanks to the infrared homing head. Capturing of the target is signalled by a sound in pilots headphones, and a signal light in the cockpit of the aircraft. R-3R missiles have their infrared head replaced by a semi-active radiolocating system. Interaction with the RP-22 radiolocation sight is necessary. Gyroscopic stabilizators (rollerons) are located in the rear part of the engine, and ensure stability of the missile in tilt, turn and other directional control.

BUY R-3S / AA-2 Atoll-A 1/48

EDUARD SIDEWINDERS:

AIM-9E Sidewinder 1/48
Cat. No.: 648196

AIM-9D Sidewinder 1/72
Cat. No.: 672043

AIM-9M/ L Sidewinder 1/72
Cat. No.: 672037

AIM-9D Sidewinder 1/48
Kat.č.: 648156

AIM-9B Sidewinder 1/72
Cat. No.: 672036

AIM-9M/ L Sidewinder 1/48
Cat. No.: 648029

AIM-9B Sidewinder 1/48
Cat. No.: 648028

diorama and kit
built by Martin Kunte

36152
Wild Flowers, Butterflies /
polní kvetiny, motýli - colour
USA 3036754
36161
Ivy-berry /
brečtan - colour

36196
Fauna - birds -
colour

635002
MG 34 gun

TP069
German Ammo.
Boxes 1/35

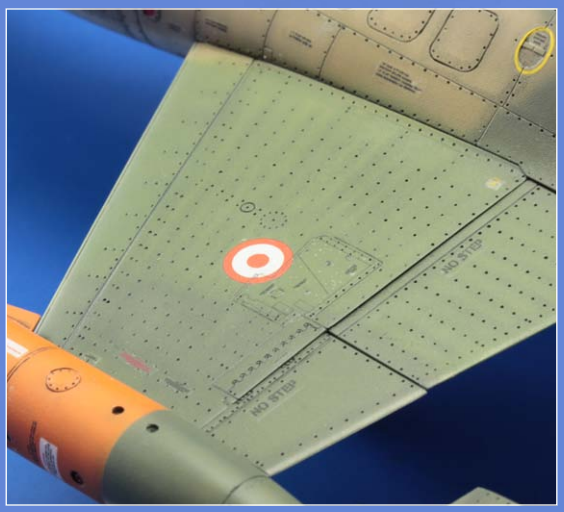
NATO fighter

1/48

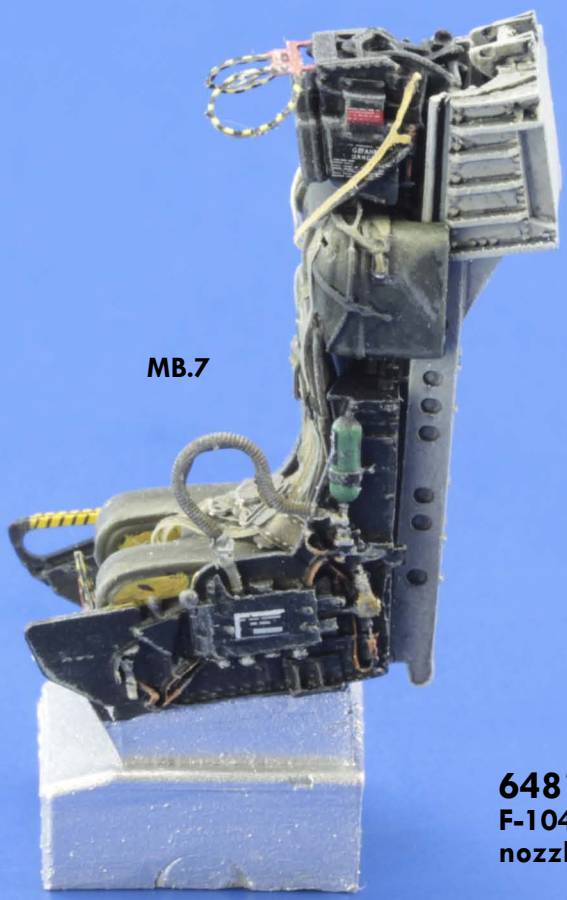
built by Petr Zatřepálek

F-104G
F-104 exhaust nozzles
F-104 wheels
F-104 seats

1/48 Hasegawa



MB.7
C.2
R16
R12
BRASSIN
BRASSIN

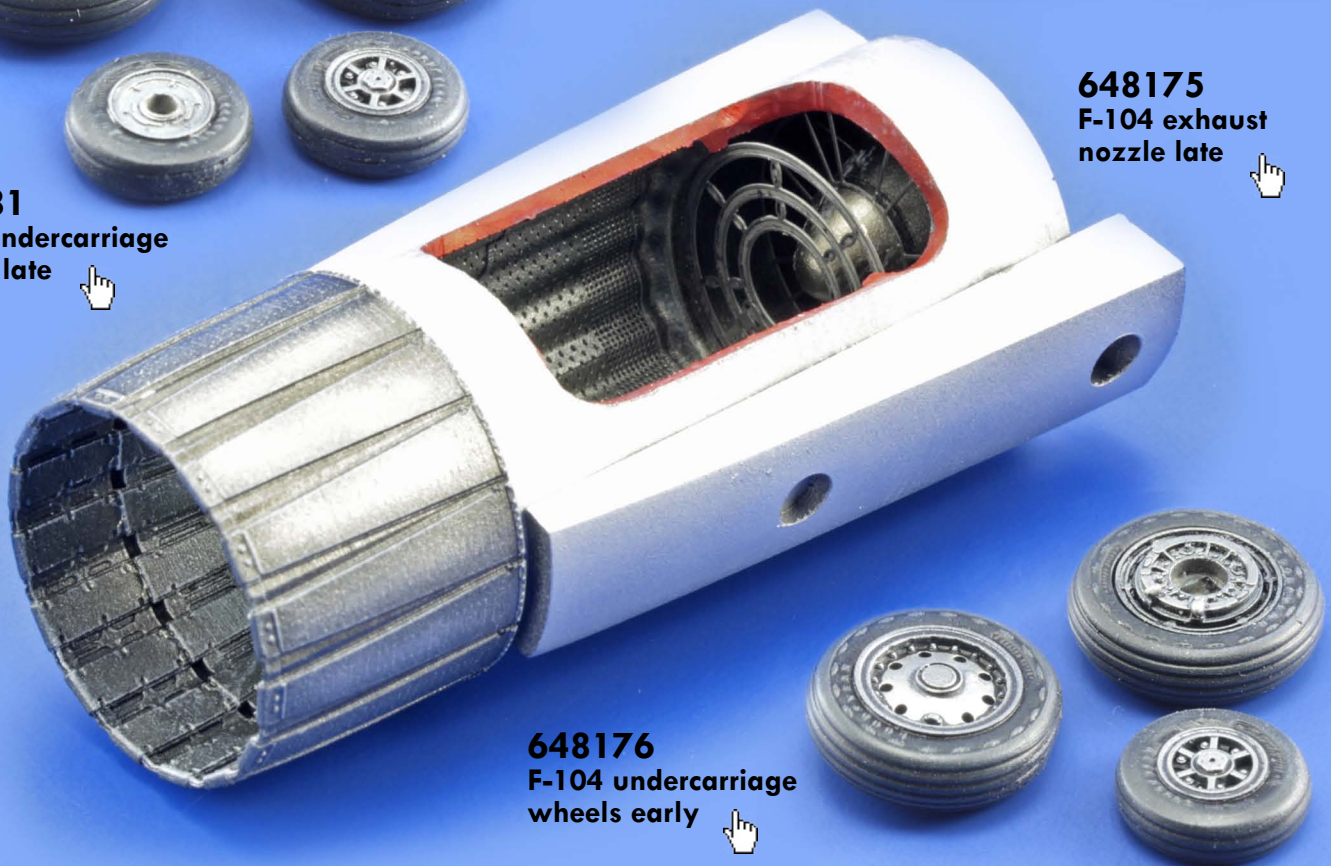


MB.7

648174
F-104 exhaust nozzle early

648181
F-104 undercarriage wheels late

648175
F-104 exhaust nozzle late



648176
F-104 undercarriage wheels early

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MiG-15UTI

ROYAL CLASS
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built by Martin Nademlejnský

ROYAL CLASS
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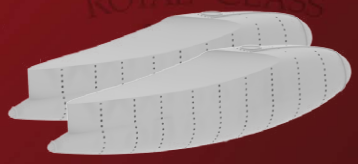
MiG-15

1/72

Cat. No. R0011



- **Quattro Combo** - 4 complete kits (first release of the UTI two seater)
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- Color photo-etched set and painting mask
- BRASSIN: 2 external fuel tanks, 2 seats
- BONUS: whiskey glass w/MiG-15 emblem (220ml)
- BONUS: A piece of the real MiG-15 mounted on the base with certificate of authenticity.

www.eduard.com

ON APPROACH

BIG ED (June)

BIG5328 MUSASHI 1/350 Tamiya
BIG49125 SPITFIRE Mk.VIII 1/48 Eduard
BIG49126 JAS-39B/D 1/48 Kitty Hawk
BIG7296 Do 17Z 1/72 Airfix
BIG7297 BLENHEIM Mk.IVF 1/72 Airfix

BRASSIN (June)

648209
MiG-21MFN ejection seat
1/48 Eduard

632056
Fw 190F-8 cockpit
1/32 Revell

632060
Fw 190F-8 MG 131 mount
1/32 Revell

632058
Do 335 muzzle brakes
1/32 HKM

648204
Lewis Mk.II WW1 gun
1/48

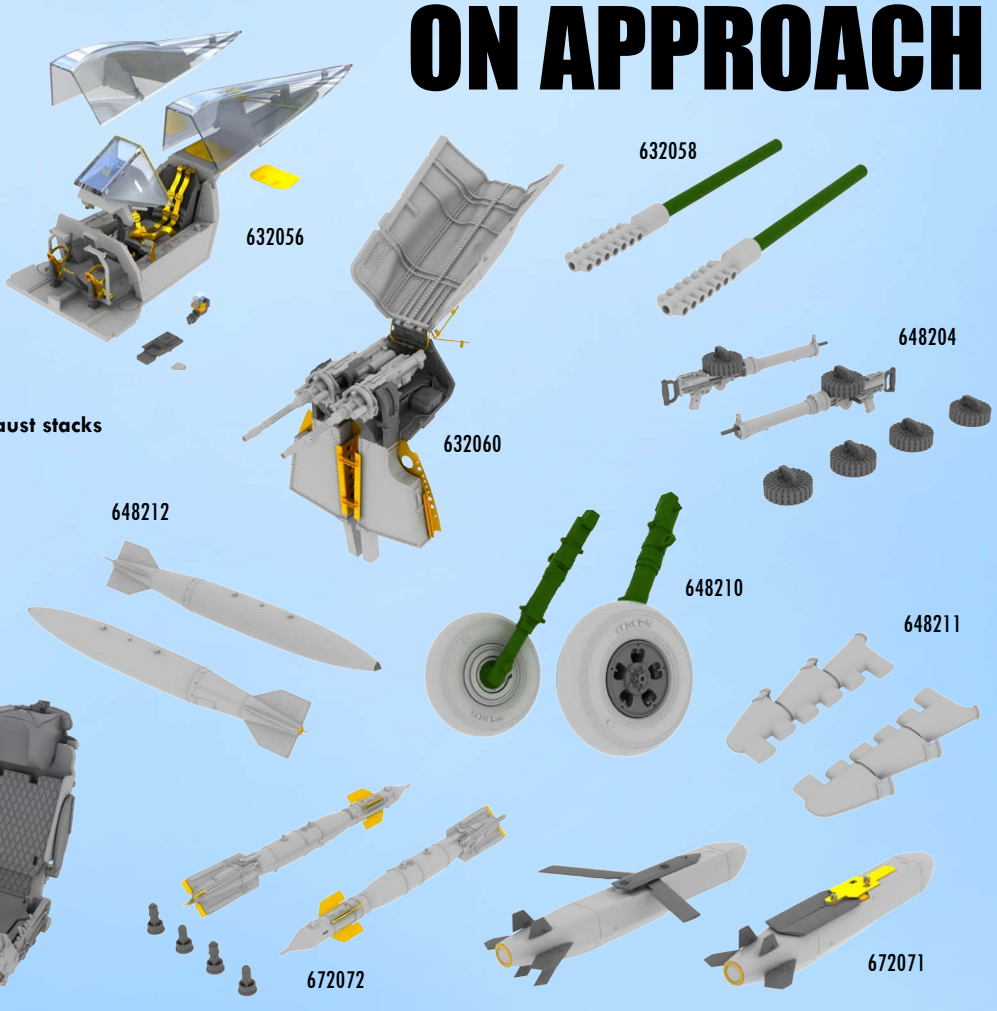
648210
Spitfire Mk.I wheels
1/48 Airfix

648211
Spitfire Mk.I exhaust stacks
1/48 Airfix

648212
Mk.84 bombs
1/48

672071
Storm Shadow
1/72

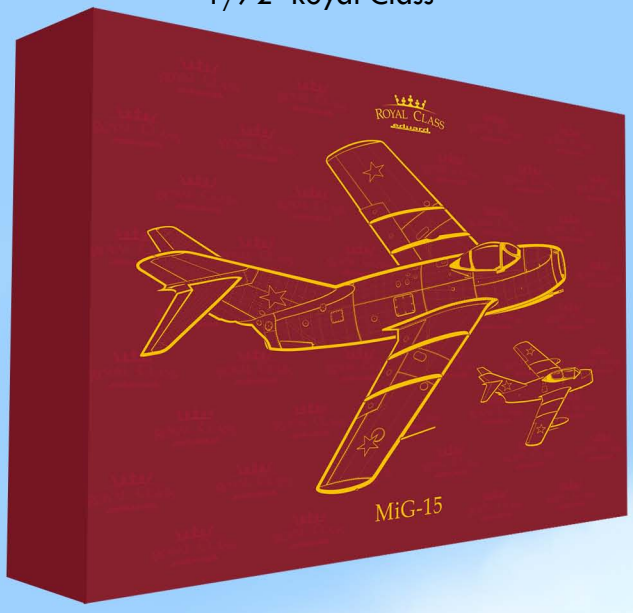
672072
GBU-49
1/72



KITS (June)

ROYAL CLASS
eduard

R0011
MiG-15
1/72 Royal Class



84128
MiG-21MFN
1/48 Weekend

1161
Guadalcanal Cobras
Dual Combo
1/48 Limited edition

REEDITION

7046
Junkers J.I
1/72 Weekend

PHOTO-ETCHED SETS (June)

PE-SETS

53136	HMS Illustrious superstructure	1/350	Airfix
53137	HMS Illustrious flight deck	1/350	Airfix
53138	HMS Illustrious safety nets	1/350	Airfix
36318	Tiger I late	1/35	Academy
36320	Tiger I late fenders	1/35	Academy
36319	T-34/85	1/35	Academy
48846	Spitfire Mk.I exterior	1/48	Airfix
48847	Spitfire Mk.I landing flaps	1/48	Airfix
48848	C-45F exterior	1/48	ICM
49078	Spitfire Mk.I seatbelts FABRIC	1/48	Airfix
49079	Seatbelts RAF WWII SUPERFABRIC	1/48	
49080	Seatbelts RAF WWII late SUPERFABRIC	1/48	
49081	Seatbelts Luftwaffe WWII fighters SUPERFABRIC	1/48	
49082	Seatbelts USAAF WWII SUPERFABRIC	1/48	
49720	Spitfire Mk.I interior S.A.	1/48	Airfix
49721	CM.170 Magister S.A.	1/48	AMK
49722	C-45F interior S.A.	1/48	ICM
49724	A-37B S.A.	1/48	Trumpeter

ZOOMS

FE723	MiG-21MFN Weekend	1/48	Eduard
FE720	Spitfire Mk.I interior S.A.	1/48	Airfix
FE724	A-37B S.A.	1/48	Trumpeter
FE722	C-45F interior S.A.	1/48	ICM
FE721	CM.170 Magister S.A.	1/48	AMK

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