

Jim Schubert

WMS

seattle

**chapter
quarterly**

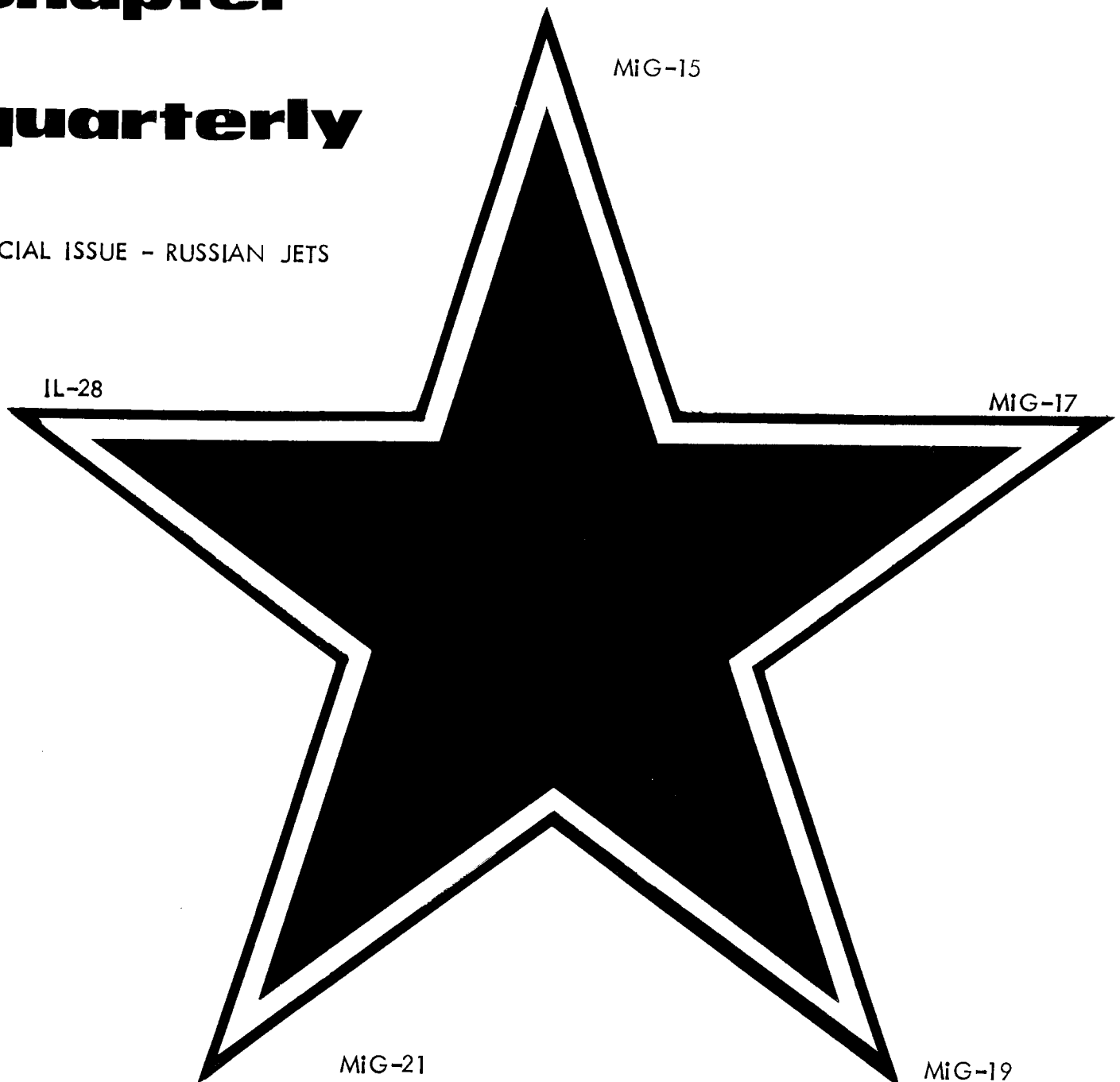
APRIL 1973

VOLUME THREE

NUMBERS THREE AND FOUR

Seattle, Washington U.S.A.

SPECIAL ISSUE - RUSSIAN JETS



EDITORIAL

THIS ISSUE

This one-subject issue on contemporary Russian jets was the idea of Brent McCullough, inspired by Al Trindle's (Hasegawa-Minicraft) massive give away of pre-release copies of the new Hasegawa 1/72nd MiG-17 kit at the IPMS-USA National Convention here in Seattle this summer.

The contributors to this issue are:

Vic Seely	Reference files
Brent McCullough	Reference files
Norm Filer	Reference files
Al Lloyd	Reference files
Greg Reynolds	Research, art, and paste-up
Terry Moore	Research, art, paste-up and sample models
Mike Quan	Research, text, and sample models
Gerry Nilles	Research, art, paste-up and sample model
John Beaman	Research, art, and text - his whole MiG-21 article
The editor	Miscellany
Ardie Otto	Text and callouts
Pam Thompson	Text and callouts
Ross O'Neill	Printing
Ric Heinbaugh	Correspondence
Bill Hawkins	Correspondence

WRITE

There's a lot of material in this issue, and some of it just has to be in error, or incomplete. If you have better information, or information on details, or color schemes that we should have included, please write to the editor. We will incorporate the new information, and corrections, in the one-off issue for 1973 when (and if) we do it.

Write to: Jim Schubert, editor
15621 S.E. 24th Street
Bellevue, Washington 98008
U.S.A.

OR,

John J. Schaaf, president
1136 21st East
Seattle, Washington 98102
U.S.A.

ALUMINUM

Most of the aircraft illustrated herein are unpainted natural metal. Duplicating natural metal has got to be the bane of a modeler's existence, but have heart, there is a way. You've all tried Pactra, Testor, Floquil, IPMS-Nevada, and the various metal foils I'm sure. Except for the IPMS-Nevada silver paint, none of them are really very good, and even the Nevada paint comes out a bit too chrome.

As I've suggested before try dope! Buy a bottle of Testor or Pactra Butyrate Dope in Silver No. 1421(21), or Silvaire Aluminum 50-1 respectively and its corresponding thinner. Also buy a pint of lacquer thinner at your hardware store. Thin the dope, in batches - not in the bottle, with its thinner. About 3 parts thinner to 1 part dope. That's right, 3 thinner to 1 paint! Airbrush a test shot onto a wing or body from your scrap box. Keep going - this stuff is so thin it takes a while to show color. Take great care to work where there's adequate ventilation or you'll get drunk on the thinner vapors. This stuff is very thin, so every surface detail, scratches, sanding marks, careless seam work, etc. shows right through it. When you've finished your test shot, see if you don't agree that's the best looking silver you've ever seen.

Like other silvers it cannot be masked. Apply other colors first and mask them. When unmasking trim the edge lines with a new sharp blade so as not to tear the silver away.

For panel differencing use liquid floor wax straight, clear flat, and liquid floor wax to which you've added a wee drop of some color - red, yellow, blue, etc. These are applied with a brush.

Use the hardware store lacquer thinner to clean your airbrush and bottles.

This silver is so good, and so easy, that once you've tried it, instead of shunning natural metal airplanes, you'll actually seek them out!

REQUIEM

This is probably the last issue of the IPMS - Seattle newsletter. The reasons for letting this vehicle die are the same that other chapters have experienced. Basically it boils down to the fact that those members who are qualified to do the work haven't the time and those members who have the time aren't qualified to do the work.

We may do one lone issue for 1973, but we also may not. The issue isn't settled and has been left to the editor's conscience to decide. We have a fair investment in another issue - an article on accurizing the Fujimi Tiger II by Tim Griffin all written illustrated and pasted-up, 12 color schemes and conversions and corrections for four marks of MAVIS, all researched and illustrated, five more color schemes for JAKE, all researched and partially pasted-up, a pile of undigested references on the Marlin from Doug Remington and John Amendola, and a "How-I-did-it" article by John Frazier on his National winning (WWII Small Scale Fighter class) Hs-123 partially illustrated by Greg Reynolds.

If we do this solo issue for 1973, it will be sold separately from the dues for simplicity. If it is done, we will so advise all local members and all other chapters (and the National) with whom we exchange correspondence. So, don't call us - we'll call you.

MiG-15

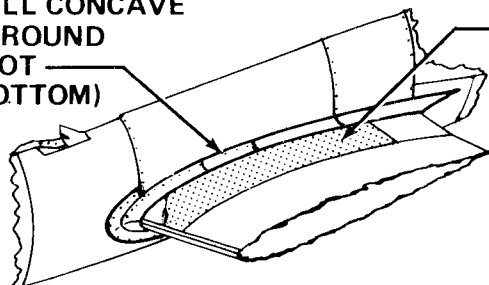
by Gerry Nilles

THE AIRFIX MIG 15 IS NOT A TOTAL LOSS AS A KIT.
THE KIT CAN BE CORRECTED BY THESE STEPS

1. LENGTHEN THE BODY
2. CORRECT THE CANOPY (I USED A REVELL P-47 D CANOPY BECAUSE IT IS BASICALLY SIMILAR AND IT IS THICK ENOUGH TO REWORK)
3. REMOVE ALL SURFACE DETAIL AND RESCRIBE
4. FILL AND RESHAPE AS INDICATED BELOW

ADD SMALL CONCAVE
FILLET AROUND
WING ROOT
(TOP & BOTTOM)

REMOVE MOLDED
WINGWALK AREA
(IS ANTISKID PAINT)



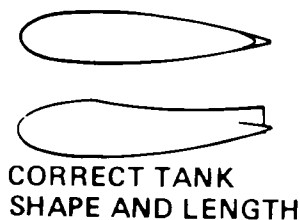
I USED THE GEAR OFF THE
"CENTRAL MIG 19" KIT,
COVERING IT WITH .010 SHEET
PLASTIC TO OBTAIN
CORRECT DOOR SHAPE



NEW NOSE
GEAR SIZE

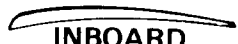


CORRECT WING TIP SHAPE



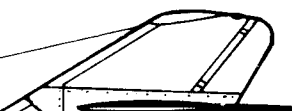
CORRECT TANK
SHAPE AND LENGTH

CORRECT WING
FENCE SHAPES
(.015 sheet)



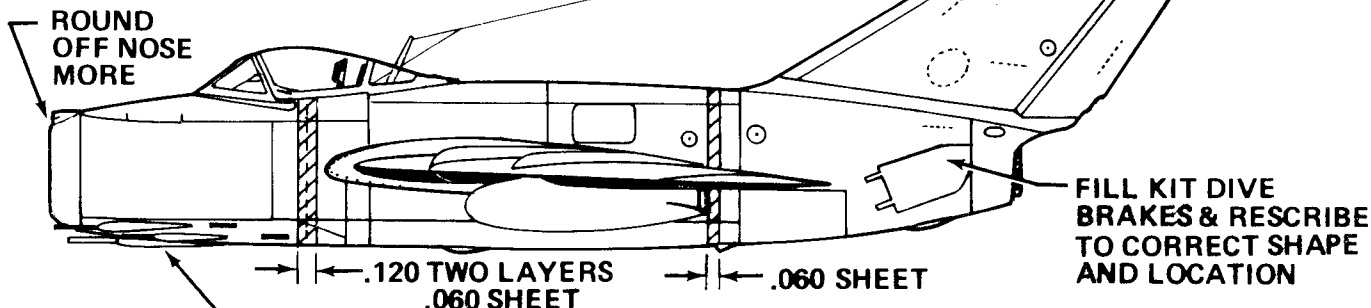
INBOARD
OUTBOARD

NEW
HORZ. STAB.
SHAPE



RESHAPED REVELL
P-47 D CANOPY

ROUND
OFF NOSE
MORE



FILL KIT DIVE
BRAKES & RESCRIBE
TO CORRECT SHAPE
AND LOCATION

CANNON FAIRINGS ARE SMALLER AND MORE STREAMLINED

MIG-15 FAGOT/MIG-15UTI MIDGET

AIRFIX 1/72ND MiG-15 KIT REVIEW

This is a very old kit and by today's standards a very bad kit - nothing is good. The overall outline being close provides its only salvation - that and the fact its the only MiG-15 in 1/72nd scale. As Gerry's article points out the body is too short, the wing and tailplane tips are wrong and the canopy is hopeless. The undercarriage is obviously only a guesstimate of what the actual article might be. I'd suggest you proceed this way: Get a Hasegawa MiG-17. Fill the inside forward portion of the wingroot boxes on the body halves. Fill the outside wing sockets back to 3/4" from the L.E. Make up whatever you're going to do for an interior and install it. Glue the body halves together. Cut off the rear 1/2" of the Airfix wing spigots. By cut-and-try reduce the -17 root fillets to match the -15 wings. The -15 wings' T.E.'s should line up with the T.E.'s of the -17 root fillets.

Cut the -17 body off neatly in a plane, square with centerline, 1/8" forward of the panel line midway between the wing root T.E. and the airbrake actuator fairing. Glue the -15 body halves together and when quite dry cut the body at the panel line right at the fin root L.E. Are you with me?

Glue the -15 airbrakes in place and fill and file them into oblivion (we'll put em back right later). Fix up the -15 intake lip per Gerry's advice. Devise some sort of splitter treatment that suits you and glue the -15 nose on the -17 body. Glue the amputated -15 tail on the truncated -17 body and you have a good looking -15 total body and vertical tail.

Make up a canopy as Gerry advises, or fill and file the kit's abortion into shape as a male mold for Vac-u-forming. The same mold is then also useable on a "short-nosed" -17. Position the windscreen on the body about 1/16" aft of where the -17 kit's windscreen properly falls. As a third alternative, fill up the -17 canopy and file a new short windscreen to shape. Remove the rear view mirror blister - use as a mold for Vac-u-forming.

Do the -15 wings and tail as Gerry suggests. An alternative to Gerry's tail is to use the -17 tailplanes, instead of the -15, altered per his sketches.

Use the -17 nose gear, as is. Use the -17 main gear legs shortened by cutting 3/32" off the top of the struts. Ream out the hole for the main gear legs in the -15 lower wing halves to receive these shortened -17 legs. Make new outer covers and doors of .010" stock. Use the inboard doors from the -15 kit. For main wheels use the Central -19 wheels or, as I did, Hawk T-6 wheels with aluminum foil hubs pressed over the -17 hubs.

For the small wing tanks use those from the -15 kit corrected per Gerry's sketches. For the intermediate size tanks use those from the -17 kit with appropriately shortened pylons and sway braces. For the large (Chinese) tanks use those from the Monogram HU-16 Albatross with the joint flanges and pylons filed off; make new pylons and fins per the sketches accompanying Greg's drawings.

Cut new airbrakes from transparent tape per Greg's or Gerry's drawings and stick in place before painting.



The decals are typical old high gloss Airfix and are for Russian and Polish birds.

You should also use the -17 cannon and machine guns on this bird's nose. *J.J.*

AIR MODEL 1/72ND MiG-15 UTI CONVERSION CANOPY KIT REVIEW

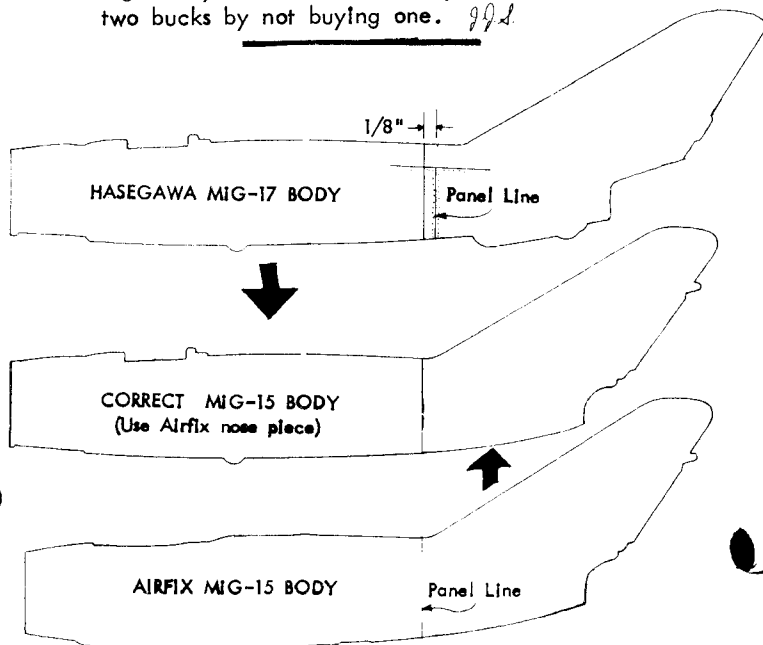
Forget it! The UTI canopy in Airmodel's kit 103 isn't even in the ball park. The shape is all wrong, and its lopsided to boot. To make a MiG-15UTI you'd best carve a male mold from a nice piece of even grained wood and Vac-u-form the canopy yourself. *J.J.*

TAMIYA 1/100TH MiG-15 KIT REVIEW

By far the most accurate MiG-15 available, Tamiya's 1/100th scale version is also a delight to build. This diminutive (4" wing span, 4.4" length) replica features good fit, light surface detail, petite detail, and even a 1/100th scale pilot! In fact, the intake-splitter arrangement is the best of any MiG-15/17/19 kit in any scale. The only perceivable corrections to the kit are (1) the addition of the short, dorsal stub antenna, and (2) the instructions mislocate the port side 23mm chin cannon. The outboard gun should be ahead of (not behind) the gun next to the nose gear door. Refer to the MiG-15 drawings herein for the correct placement. Packaged with the F-86F as a twin kit, the MiG-15 by Tamiya is highly recommended. *mas*

HAWK 1/48TH MiG-15 KIT REVIEW

If you want to scratch build a 1/48th MiG-15, the vertical and horizontal tails from the Hawk Kit will be useful. The rest of the kit is a total loss. The wings are of incorrect planform and set at the wrong sweep angle. The body is too short and fat and too sharply tapered both fore and aft. The canopy is too short and totally the wrong shape. Not even the wheels and undercarriage legs are worth throwing in your junk box. I gave my Hawk MiG-15 away and suggest you save two bucks by not buying one. *J.J.*



Making an accurate 1/72nd MiG-15 body; see details in text.

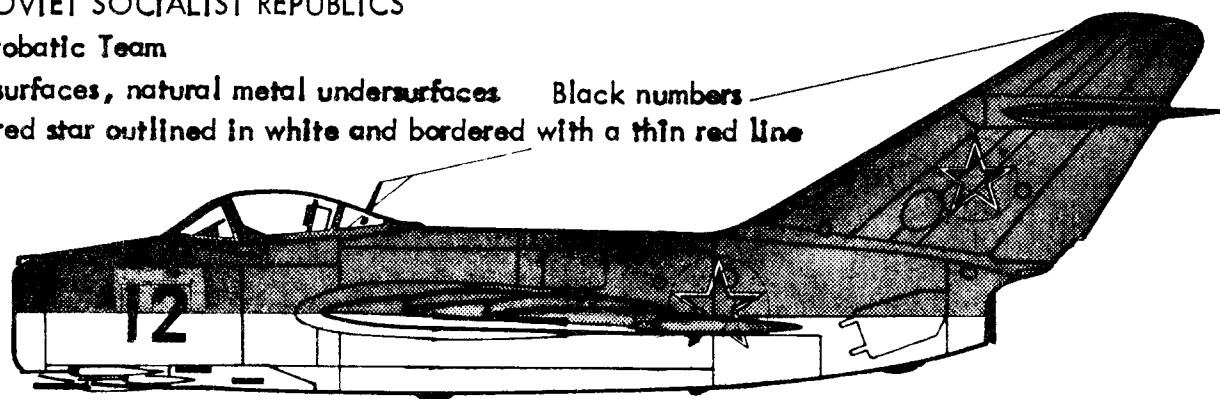
Mikoyan-Gurevich MiG-15

art: Greg Reynolds

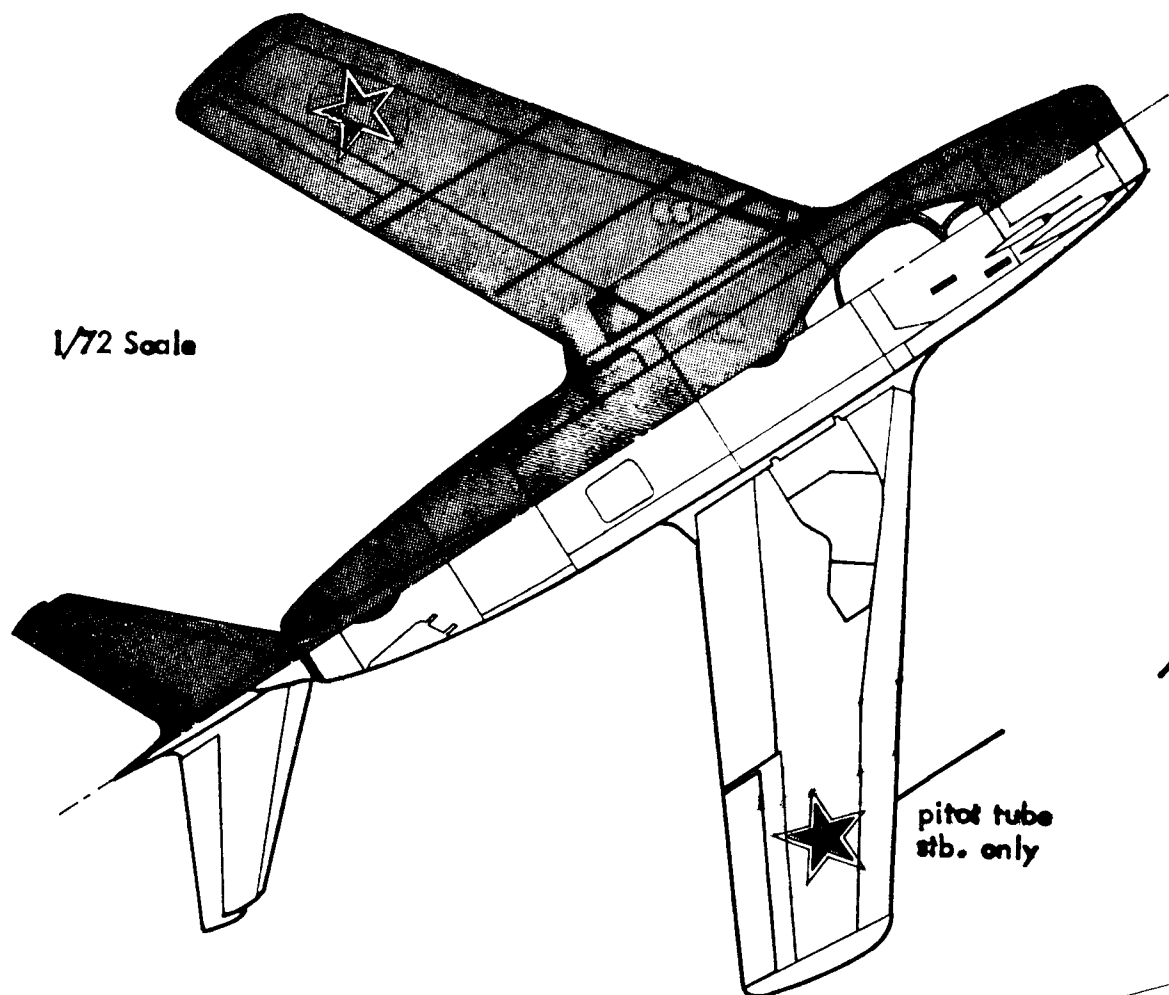
UNION OF SOVIET SOCIALIST REPUBLICS

Russian Aerobatic Team

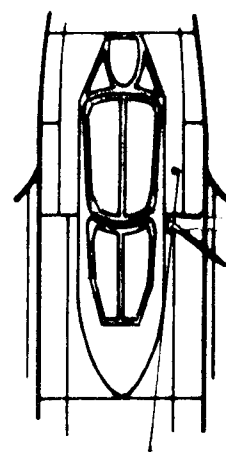
Red upper surfaces, natural metal undersurfaces
Insignia, red star outlined in white and bordered with a thin red line



1/72 Scale



Top view of
UTI canopy



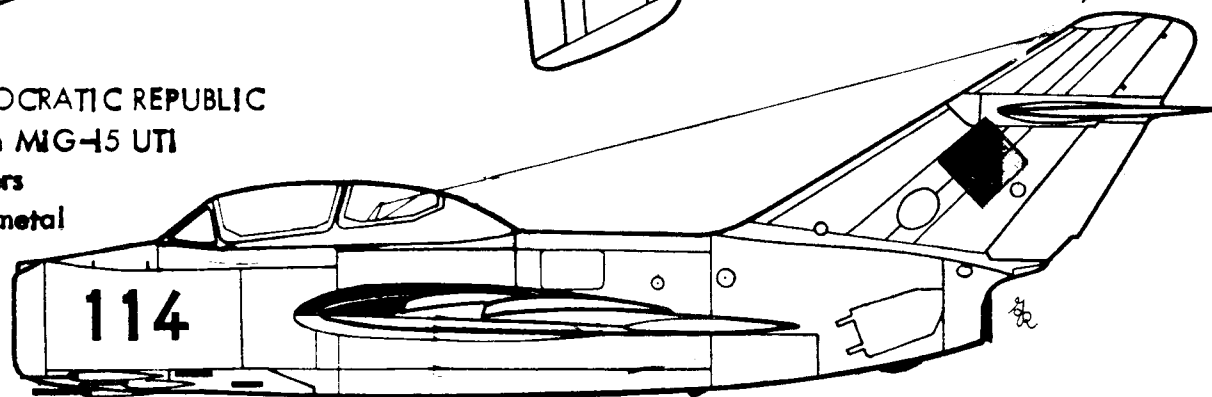
pilot tube
stb. only

GERMAN DEMOCRATIC REPUBLIC

East German MiG-15 UTI

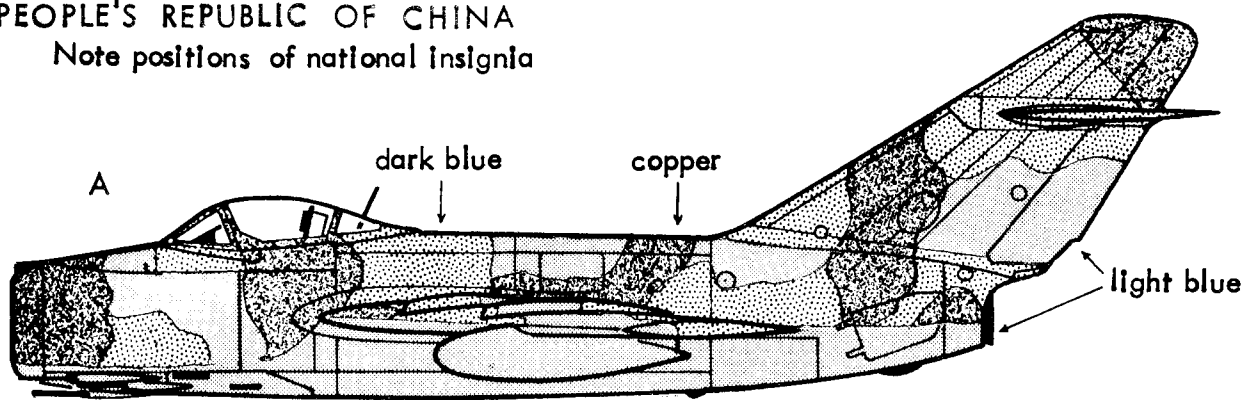
Black numbers

All natural metal

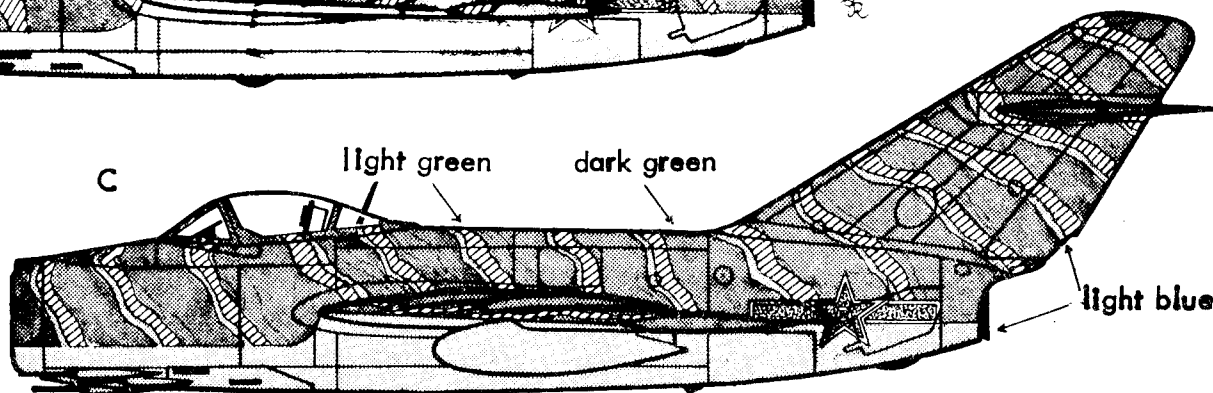
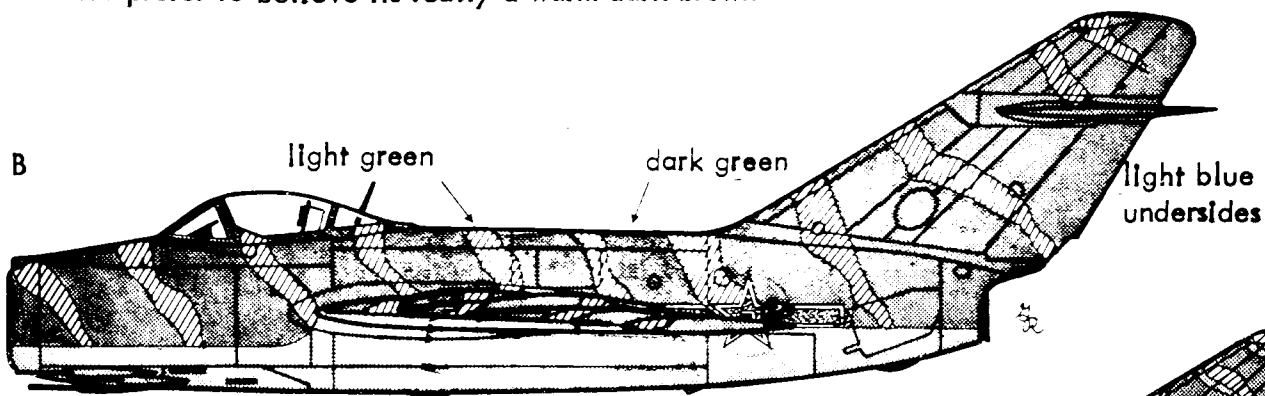


Lengthen Airfix body as given by Gerry Nilles and add an Almodel conversion canopy

PEOPLE'S REPUBLIC OF CHINA
Note positions of national insignia



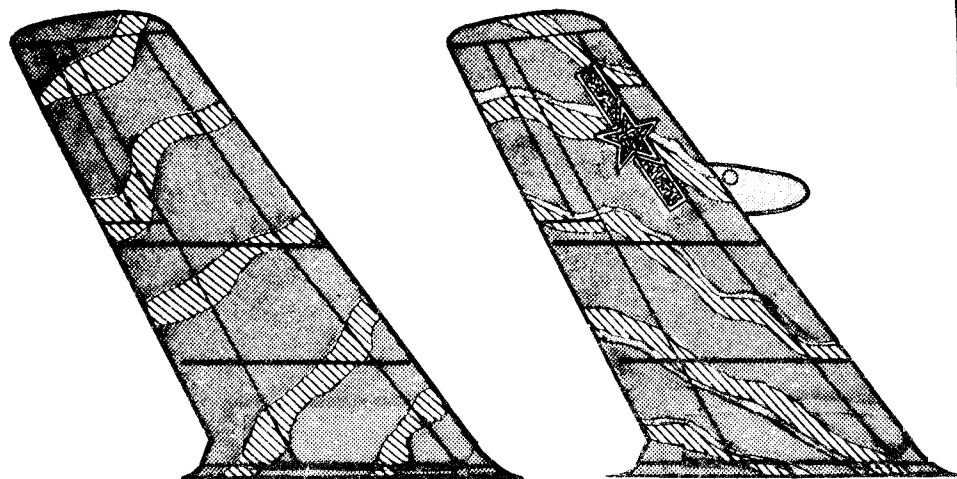
N.B. "Copper" is the word used in all our MiG-15 references, but a metallic color is unbelievable. We prefer to believe its really a warm dark brown



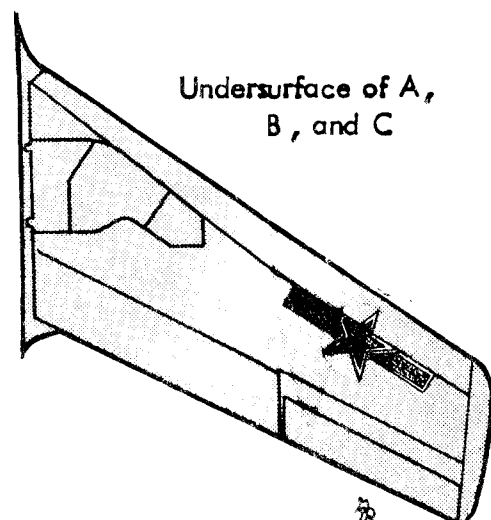
Any of these Chinese planes can also appropriately carry North Korean Insignia in the usual 6 places

Upper surfaces of B

Upper surfaces of C



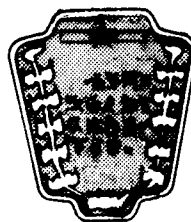
6



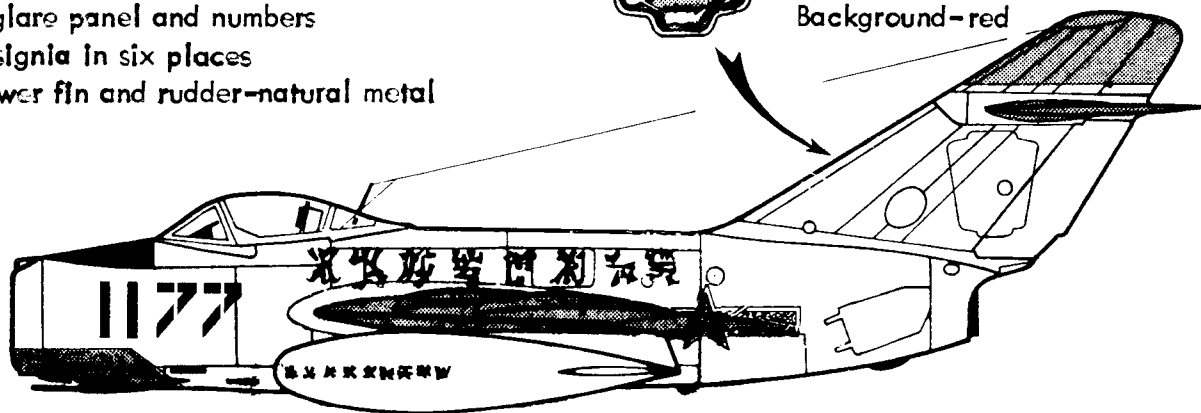
1/72 Scale

Chinese MiG-15s cont.

Fuselage characters, badge and numbers both sides
 Small characters, both tanks, outside only
 All characters, the wings, horizontal tail,
 underside of nose, and tip of fin/rudder-red
 Black anti-glare panel and numbers
 National Insignia in six places
 Body and lower fin and rudder-natural metal

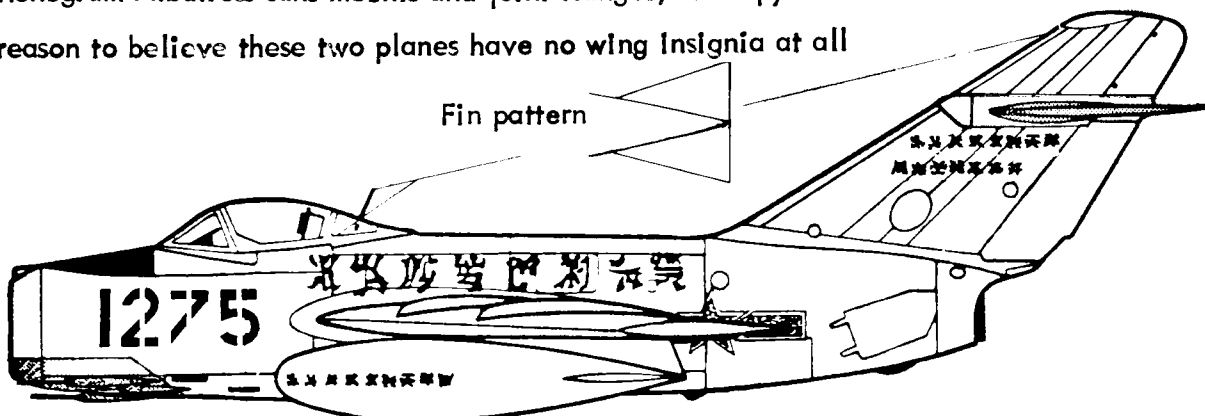


Badge Details: Small national
 insignia- red and yellow.
 Wreath, outline, and
 characters -yellow
 Background-red



Use tanks from Monogram Albatross sans mounts and joint flanges; make pylons and fins from .020" sheet

There is good reason to believe these two planes have no wing Insignia at all

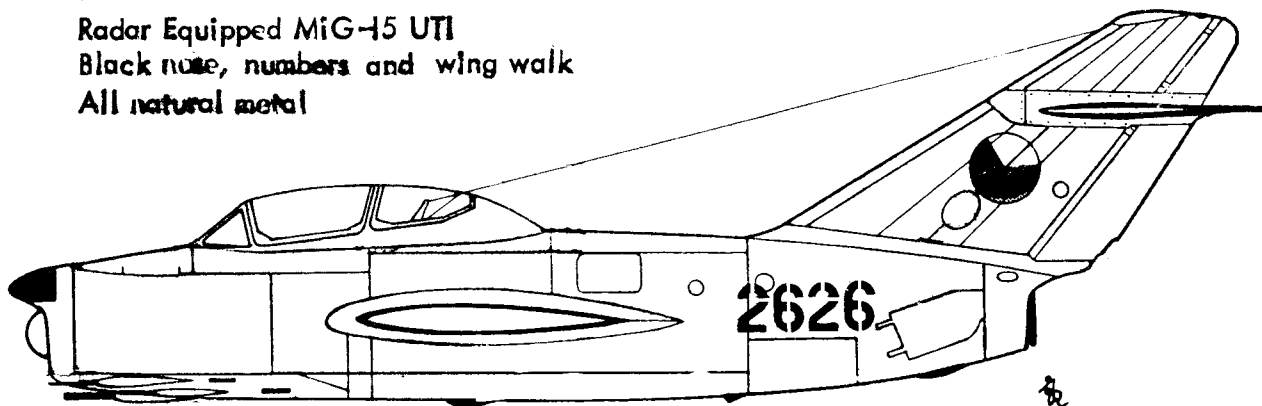


As above, except no red on vertical tail; badge replaced with script

On all Airfix MiG-15s, use Hasegawa MiG-17 gun blisters and landing gear for finer detail

CZECHOSLOVAKIA

Radar Equipped MiG-15 UTI
 Black nose, numbers and wing walk
 All natural metal

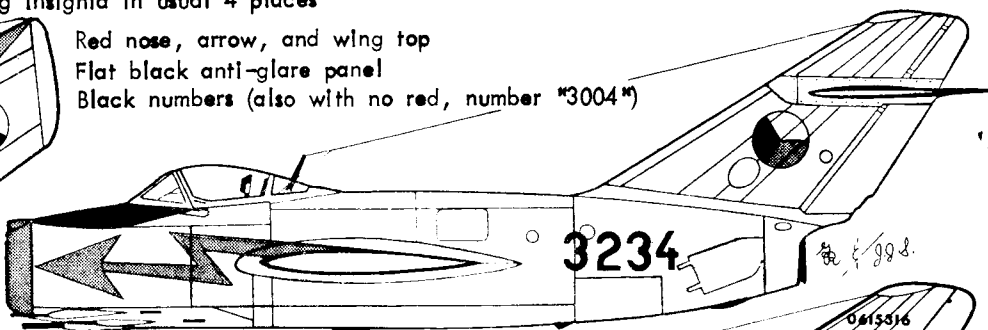
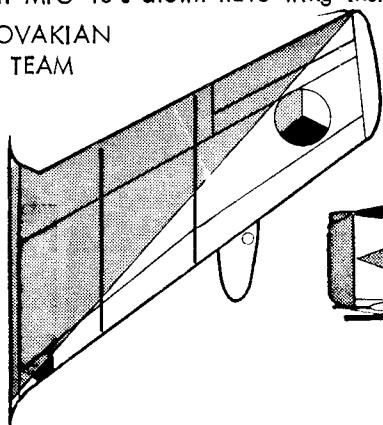


Lengthen Airfix body as given by Gerry Nilles; add an Almodel conversion canopy, and the radar nose from Hasegawa's MiG-17

MIG-15 All MIG-15's shown have wing insignia in usual 4 places

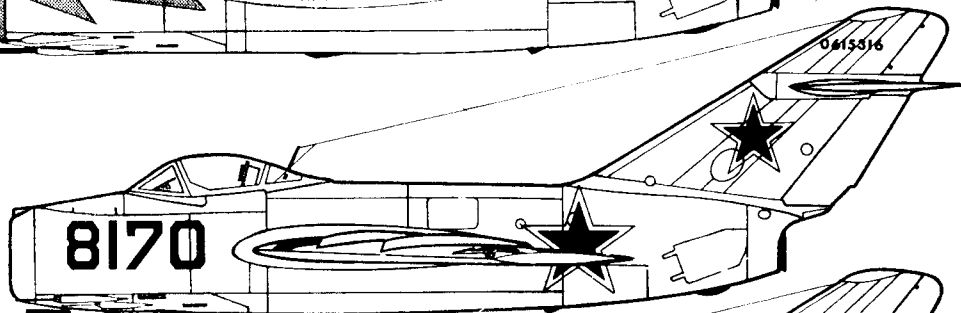
CZECHOSLOVAKIAN
AEROBATIC TEAM

Red nose, arrow, and wing top
Flat black anti-glare panel
Black numbers (also with no red, number "3004")



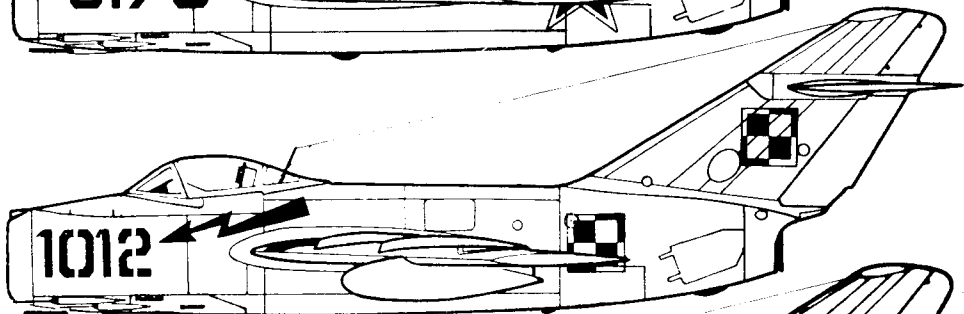
USSR

Red stars, bordered white, outlined black
Black numbers



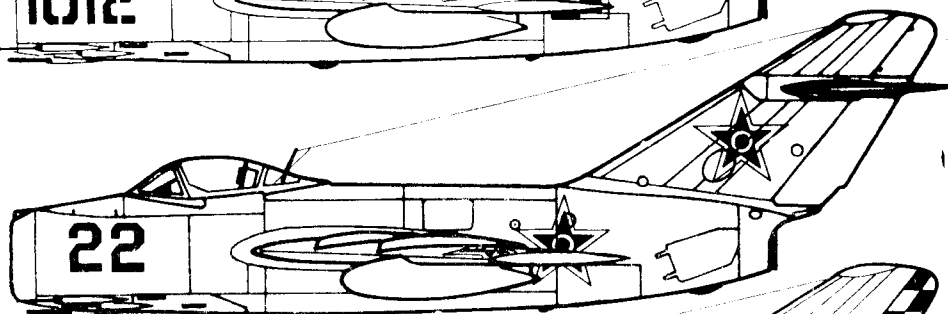
POLAND

Yellow fulmin
Red numbers (also "1304"
sans fulmin)



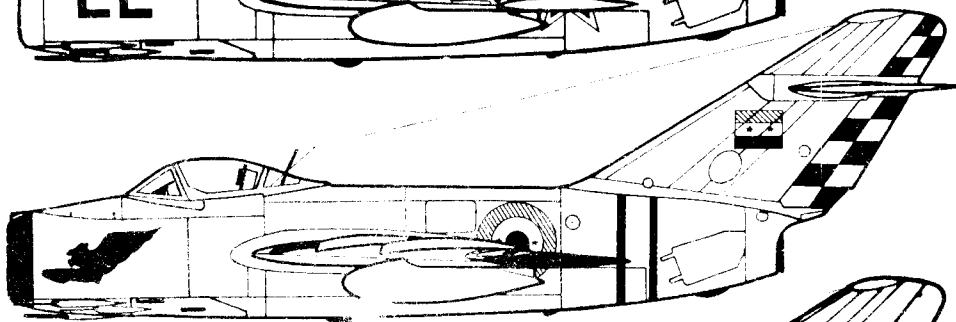
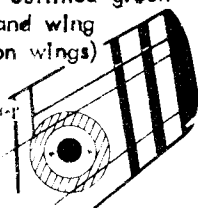
HUNGARY

Red numbers, bordered white,
outlined red



UNITED ARAB REPUBLIC (EGYPT)

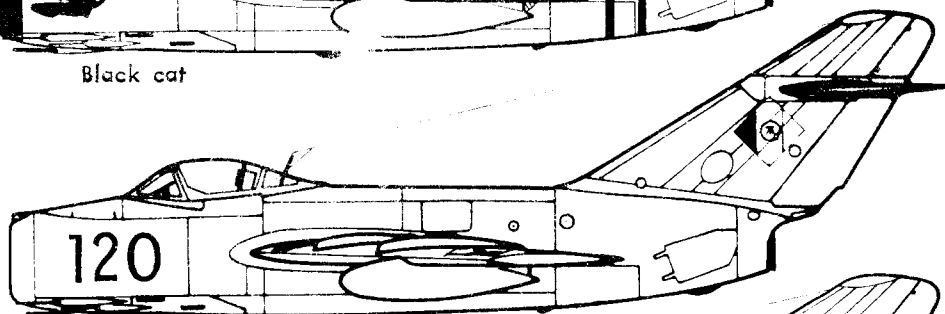
White body band, outlined green
Green wing tips and wing
bands (no white on wings)
Green nose
Green/white rudder



Black cat

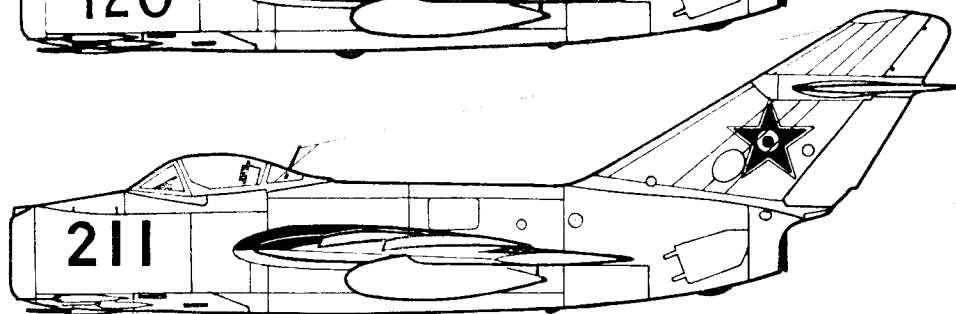
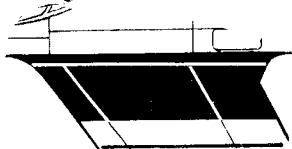
EAST GERMANY

Black numbers



RUMANIA

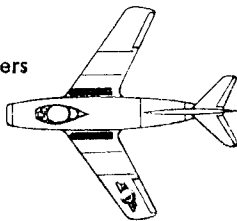
Black numbers
Expanded wingwalk-black



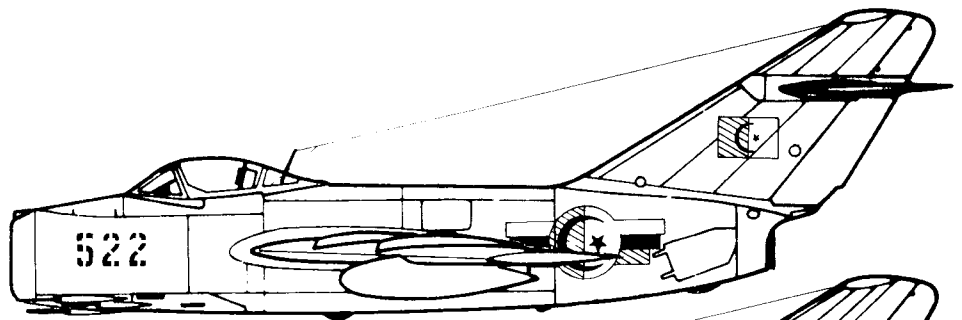
MIG-15

ALGERIA

Black numbers

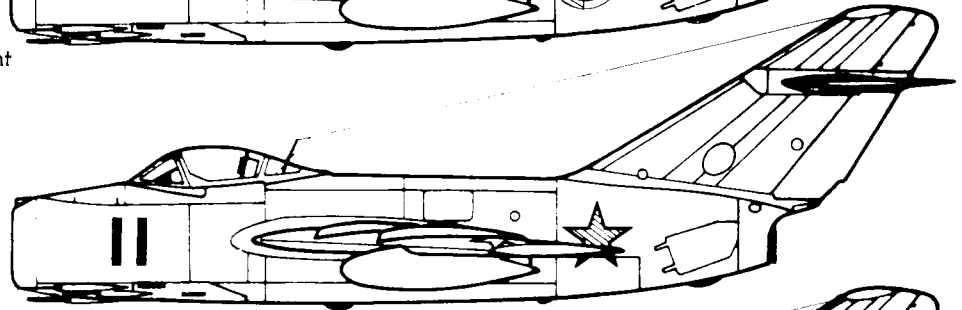


Wing insignia upper left, lower right parallel to span line



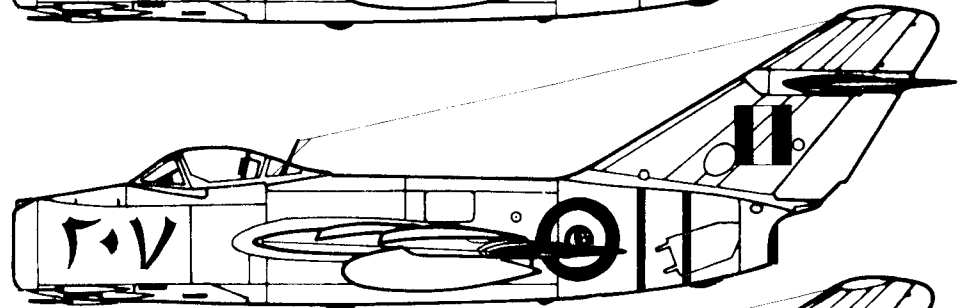
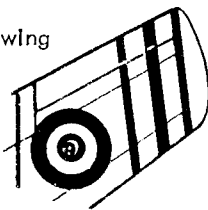
NORTH VIETNAM

Black numbers
"Old" style red outlined,
yellow star insignia



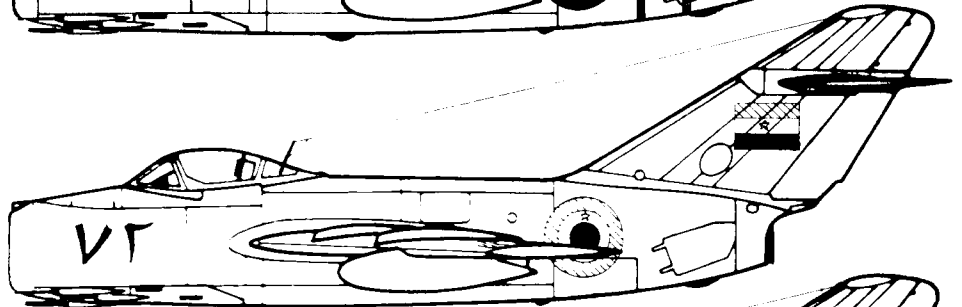
EGYPT (Pre UAR)

Black numbers
Green body and wing
bands (no white)



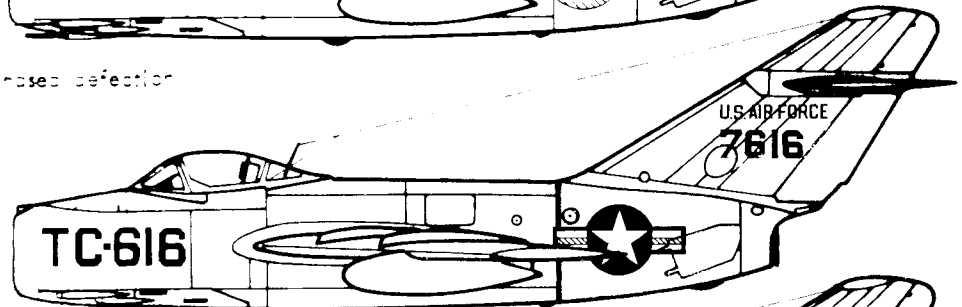
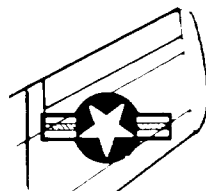
YEMEN

Black numbers



USAF (Project "Moolah" airplane - a purchased defection)

Red turbine warning stripe
Black numbers

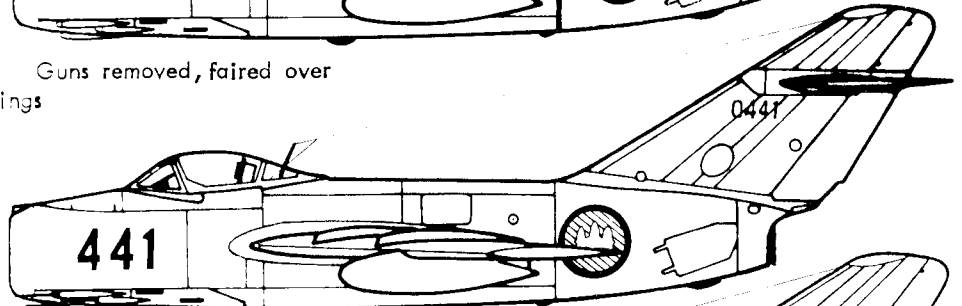


Insignia - upper left, lower right wings

Guns removed, faired over

CAMBODIA (KHMER)

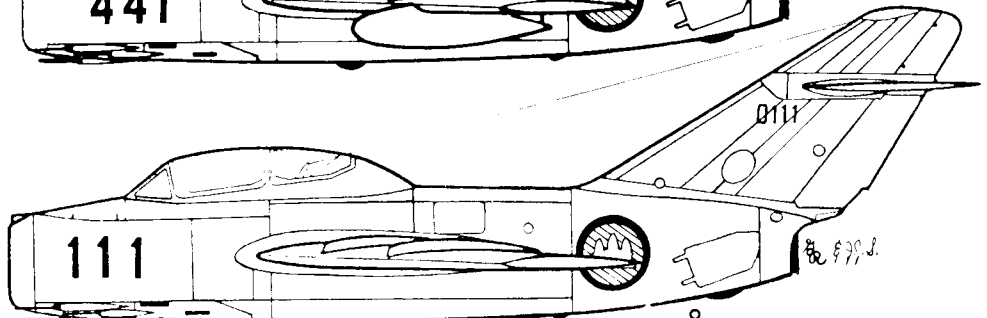
Black numbers



MIG-15 UTI

CAMBODIA (KHMER)

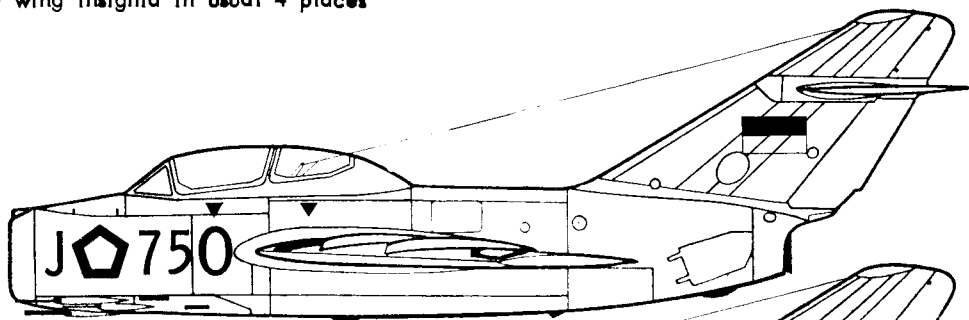
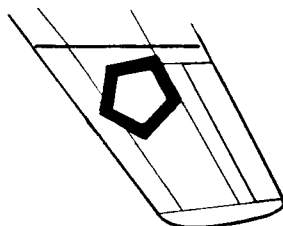
Black numbers



MIG-15 UTI MIG-15 UTI's shown have wing insignia in usual 4 places

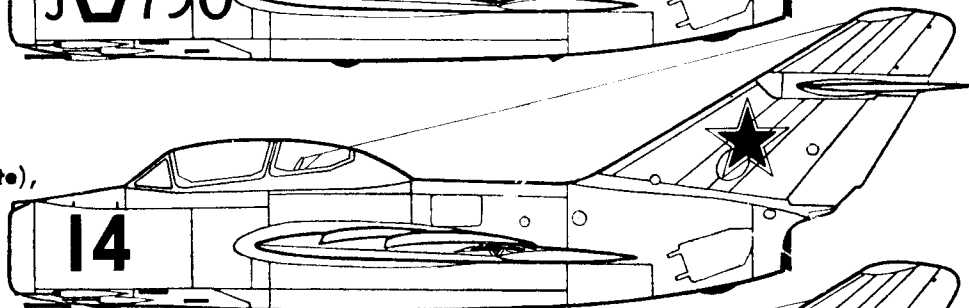
INDONESIA

Black numbers



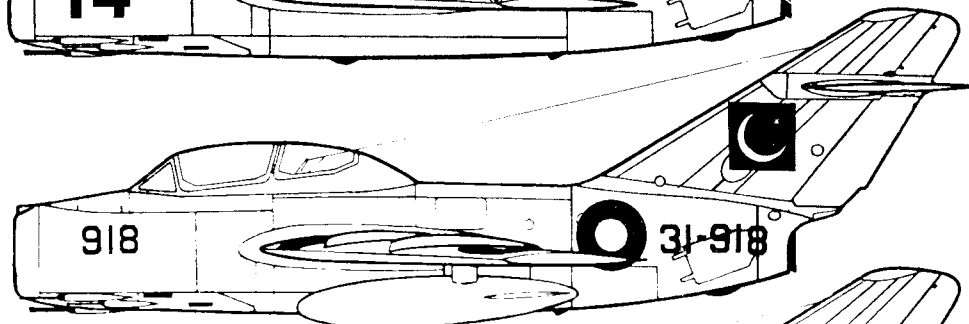
USSR

Red star, bordered yellow (or white), outlined red



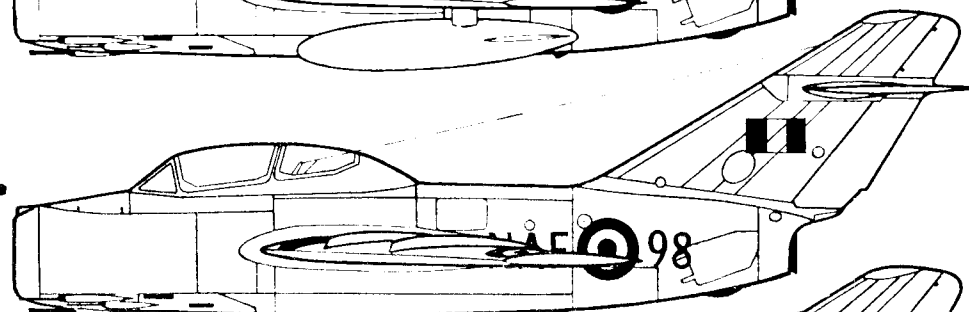
PAKISTAN

Black numbers



NIGERIA

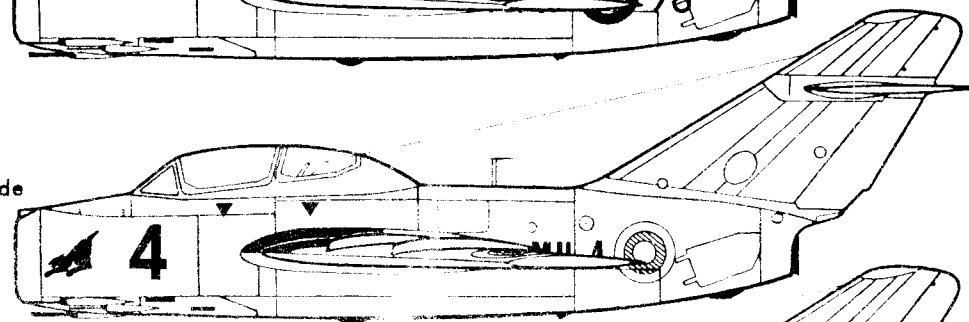
"NAF" aft of roundel on right side



FINLAND

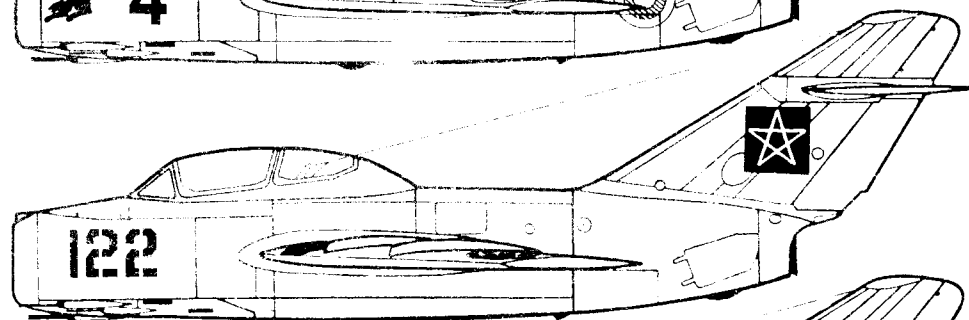
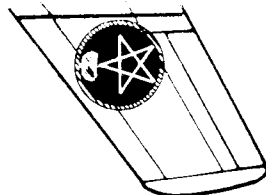
Black numbers and cat
"MU-4" fwd of roundel on right side

Shortened, wider wing walk-black



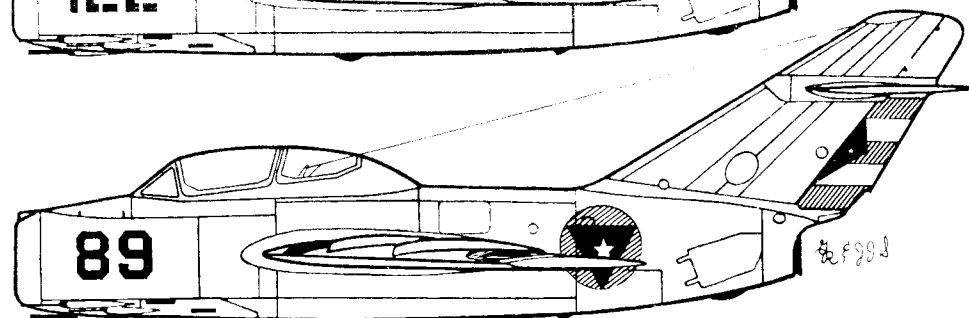
MOROCCO

Black numbers



CUBA

Black numbers
Point of triangle fwd on wings



MIG-17 FRESCO



HASEGAWA 1/72nd MIG-17 KIT REVIEW

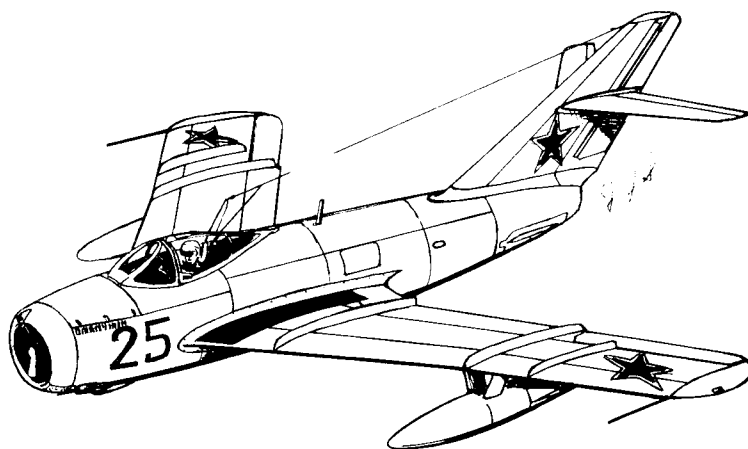
Typical Hasegawa quality with only a few easily corrected glitches. The fit of the parts in general is a bit below what we've come to expect from this firm. There are two small discrepancies on accuracy: the nose is too short for the radar-nose FRESCO-D version depicted - shim the nose piece out 1/16" from the body to correct this, and the flaps are totally inaccurate as presented - fill and rescribe per Greg's drawings.

To make the more common short-nose FRESCO C version use an Airfix MIG-15 nose piece corrected per Gerry's -15 article, and a short windscreen canopy made in any of the three alternative methods proffered for the MiG-15.

Watch out when installing the wing tanks, Hasegawa's design is weak and its a pretty fiddly operation.

To make a short nose FRESCO-A proceed as for the C, but additionally lengthen the tail pipe fairing and reduce its diameter. Glue the body halves of an Airfix MiG-15 together, and when quite dry cut off the rear of the body in a plane 5/32" forward of the last panel line. Trim off all remnants of fin/rudder. Glue the MiG-17 body halves together. Trim off the end of the body that flares from the jet orifice to the fin base. Glue the Airfix tail cone to the Hasegawa afterbody; fill and file to a smooth fit.

Trim off the airbrake outlines and actuator fairings, make new air brakes of transparent tape and stick in place per Greg's drawings. Make new actuator fairings of scrap plastic and glue in their new locations.

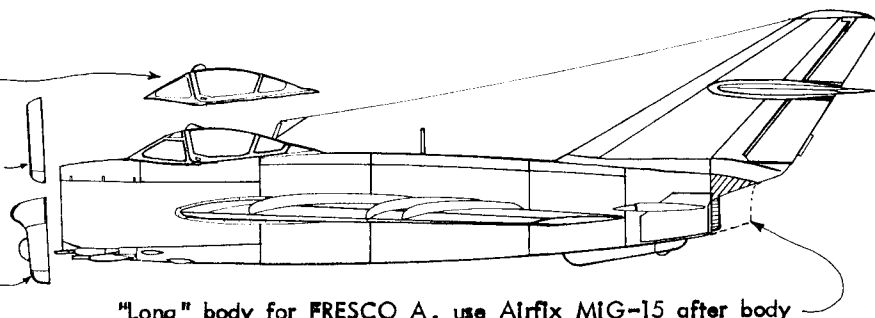


"Short" canopy for FRESCO'S A & C

AIRFIX MIG-15 nose for FRESCO'S A & C

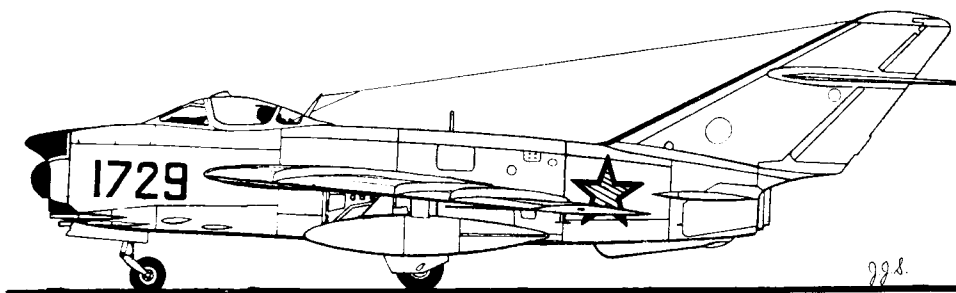
Hasegawa nose for FRESCO's D, E, & F

"Long" body for FRESCO A, use Airfix MIG-15 after body



NORTH VIET NAM

Natural metal overall
Old insignia-yellow star,
outlined red
Red numbers
Black radomes, wingwalks,
and blast panels



Far-flung Fresco

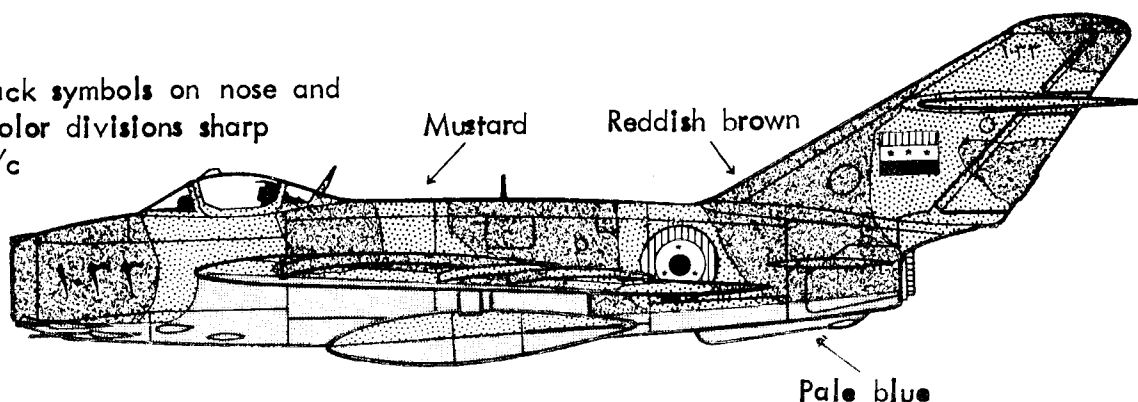
art: Greg Reynolds

SYRIA

MIG-17F Black symbols on nose and fin (1033) Color divisions sharp

Note: This a/c one of two flown to Betzet, Israel by defecting Syrian pilots in 1970.

The other a/c very similar with symbols ١٠٤١ (1041)

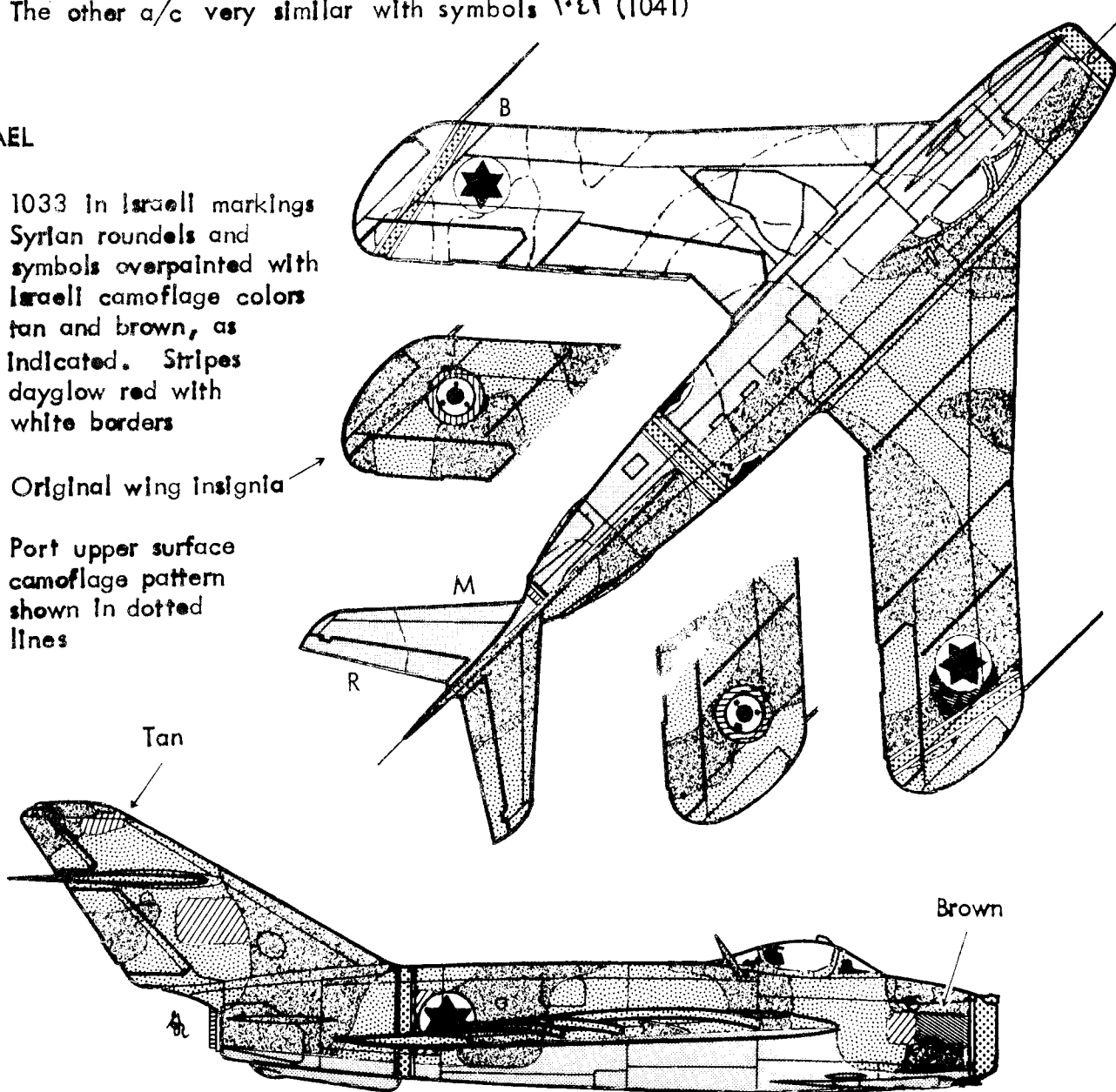


ISRAEL

1033 in Israeli markings Syrian roundels and symbols overpainted with Israeli camouflage colors tan and brown, as indicated. Stripes dayglow red with white borders

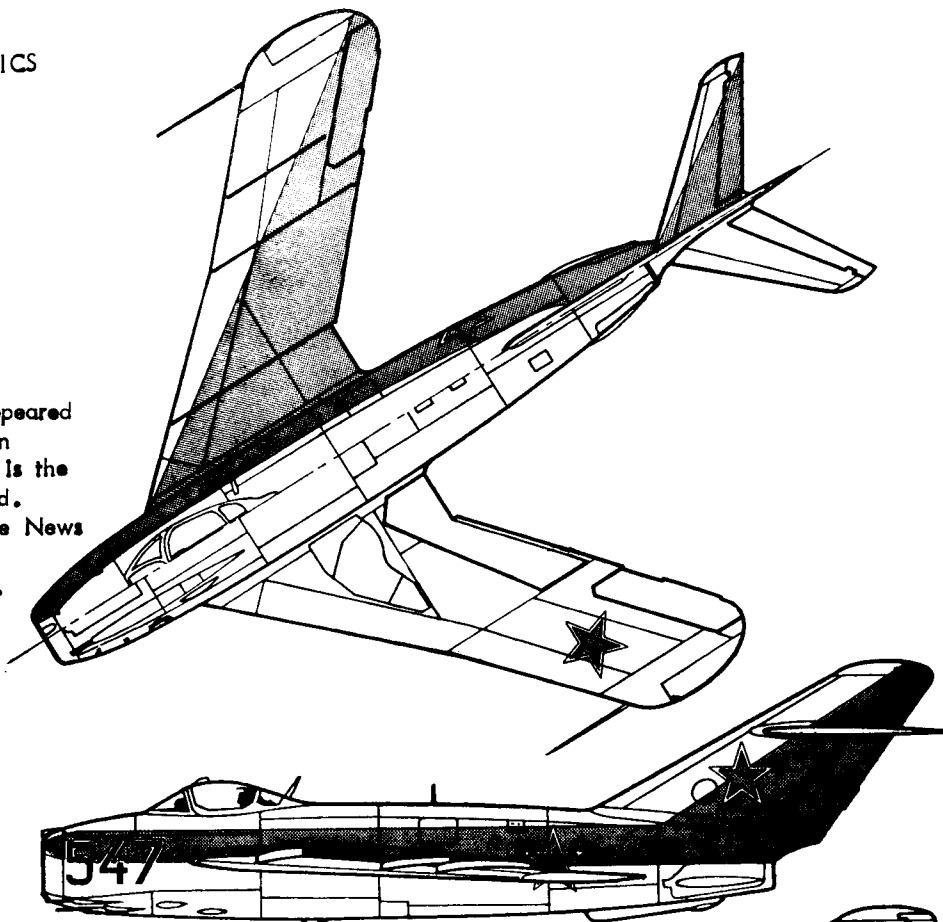
Original wing insignia

Port upper surface camouflage pattern shown in dotted lines



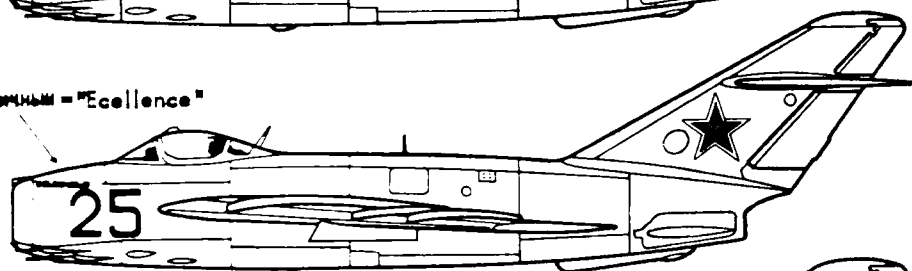
MIG-17 (Fresco A)
Russian Aerobatic Team
Natural metal undersurfaces
Black 547

Note: The team's 17's apparently appeared in several color schemes, differing in minor details. At issue, however, is the color with which they were decorated. Both FRI (Date?) and Model Airplane News (Aug. 60) have published drawings indicating this color was dark green. It is this author's opinion that like the team's MIG-15, 19 and 21's, this color was actually red.



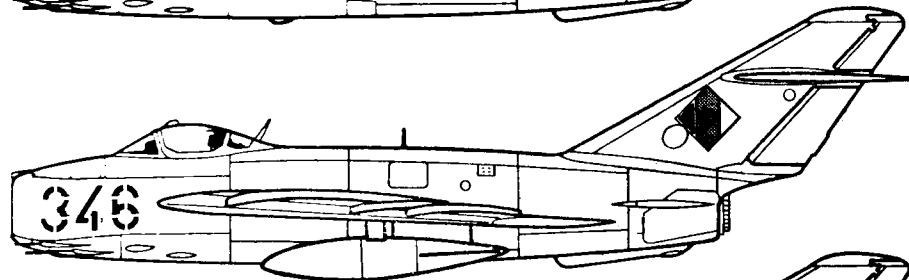
MIG-17 Dark green 25
Black script
Note: This a/c made a forced landing near Dillingen/Donau West Germany on May 25, 1967 and was recovered by the US Army

ОТЛИЧНИК - "Eccellence"

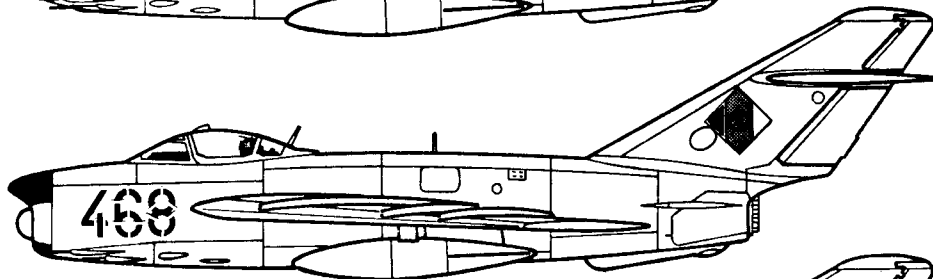


GERMAN DEMOCRATIC REPUBLIC

MIG-17F (FRESCO C)
Black 346

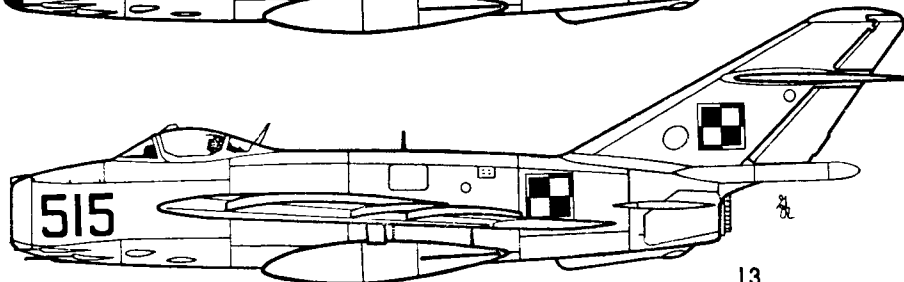


MIG-17PF (FRESCO D)
Black 468

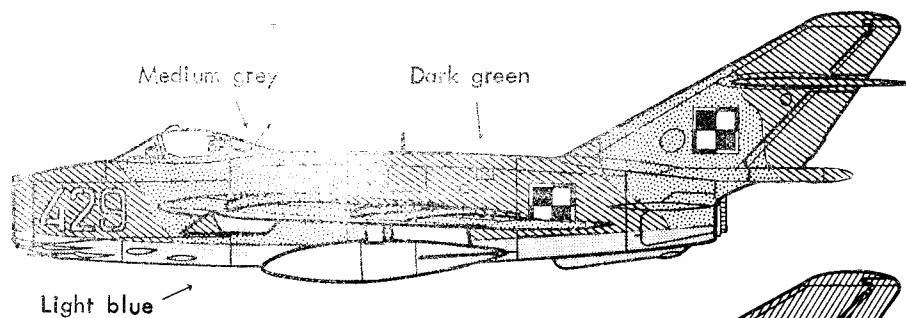


POLAND

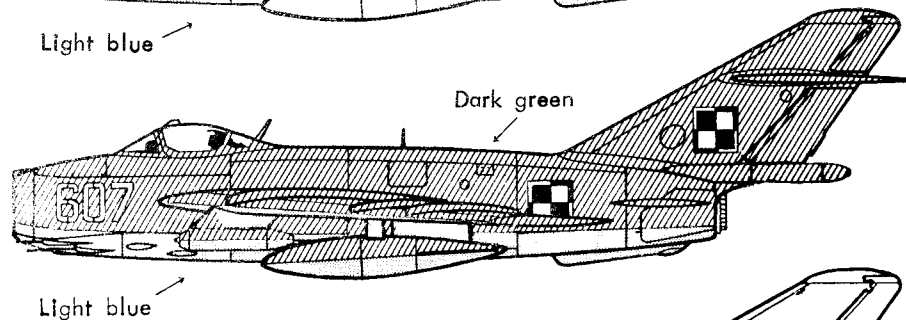
LIM-5M (Polish modified and built MIG-17F) Black 515 Note unusually high fuselage insignia



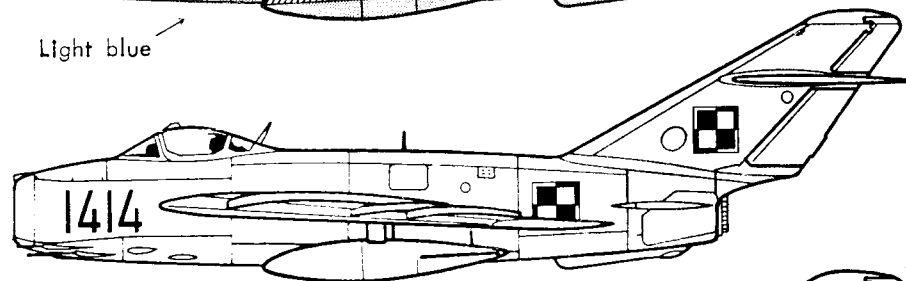
LIM-5M Light grey 429



LIM-5M Light grey 607
Note pod containing 17 air to ground missiles

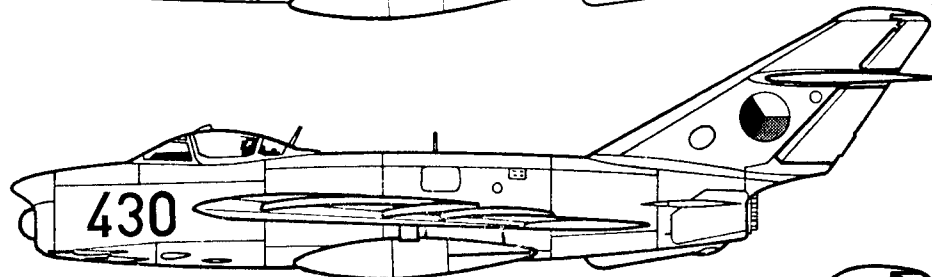


MIG-17F Black 1414



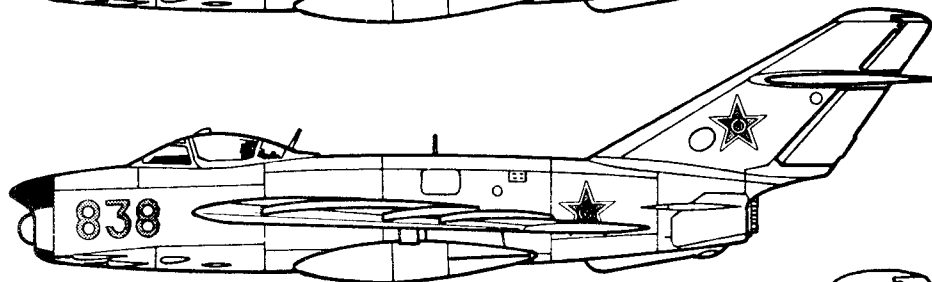
CZECHOSLOVAKIA

MIG-17PF Black or red 430
White radar fairing



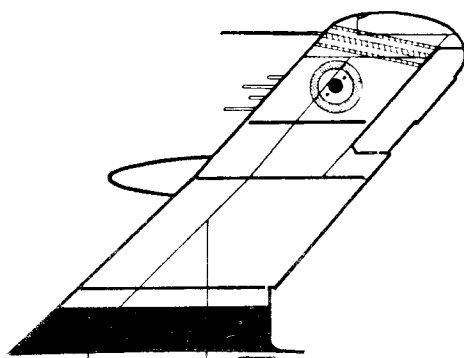
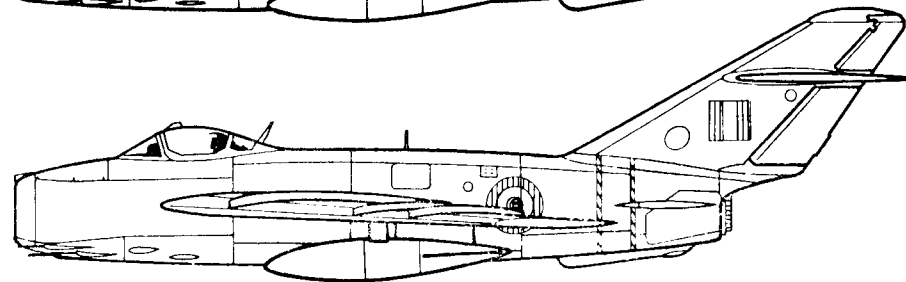
PEOPLE'S REPUBLIC OF HUNGARY

MIG-17PF
838 red with white outline.

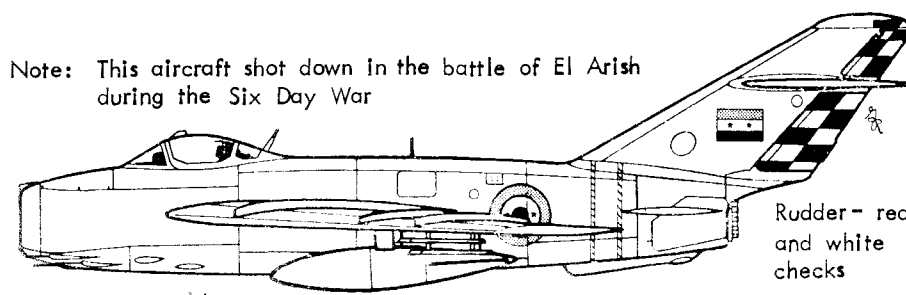


ARAB REPUBLIC OF EGYPT

Both a/c MIG-17F's
Green fuselage and wing stripes
Black wing walks



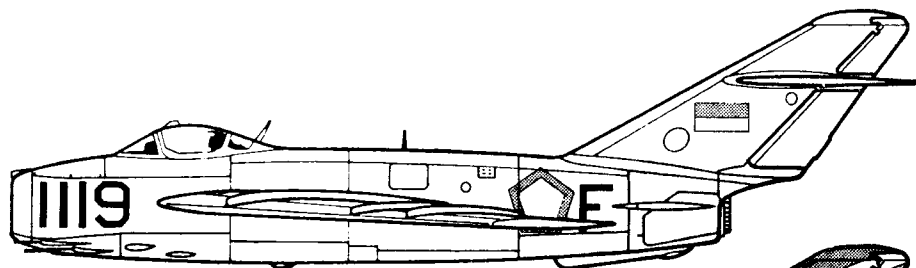
Note: This aircraft shot down in the battle of El Arish during the Six Day War



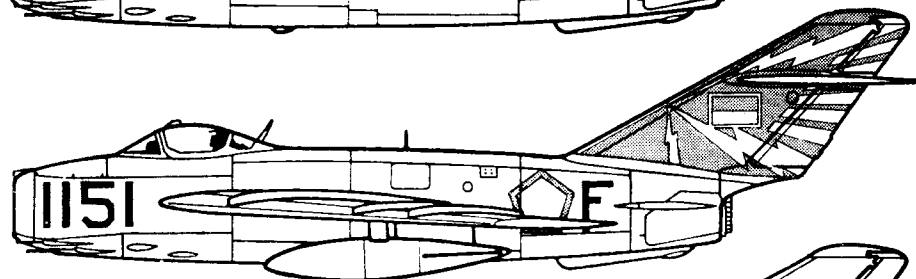
Rudder - red and white checks

REPUBLIC OF INDONESIA

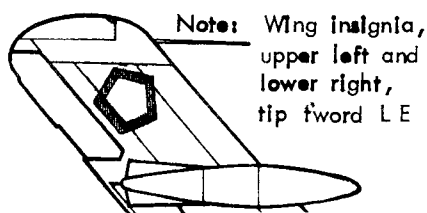
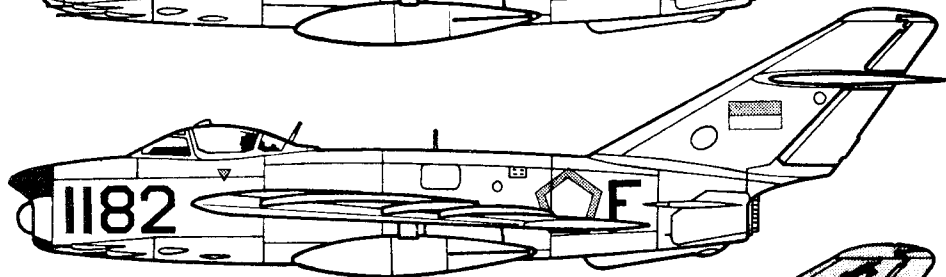
MIG-17F
Black 1119 and F



MIG-17F of Squadron 11, 1965
Black 1151 and F, red fin,
natural metal lightning and insignia
border, white rudder stripes

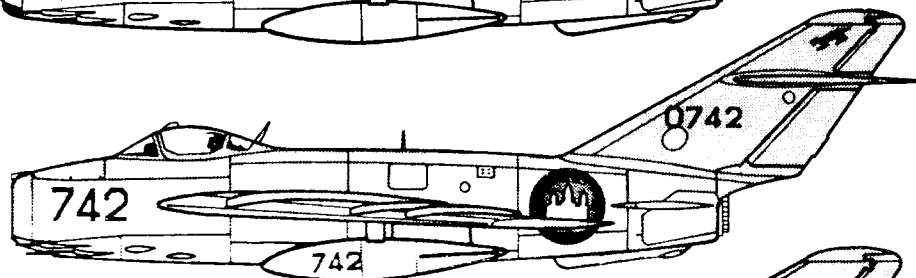


MIG-17PF Black 1182 and F
Red ejection warning stencil

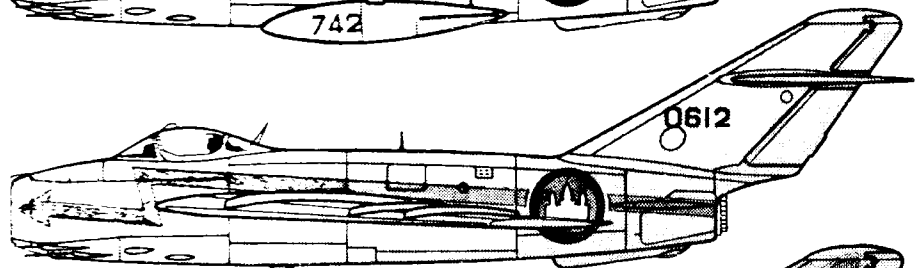


KHMER REPUBLIC (CAMBODIA)

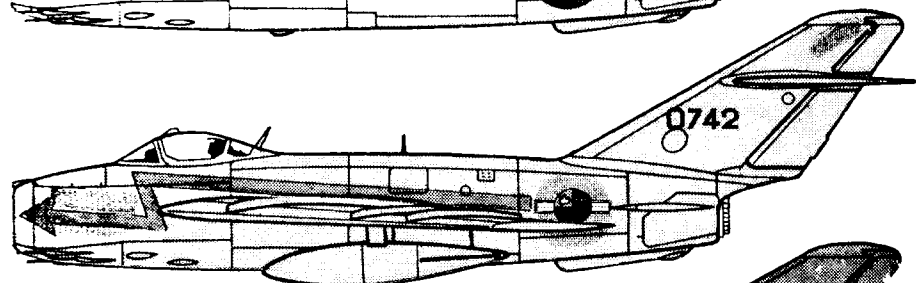
MIG-17F Overall light grey
(0)742 on nose fin and tanks
dark blue Sqdn. insignia on
tail, black panther



MIG-17F
Red arrow Dark blue 0612

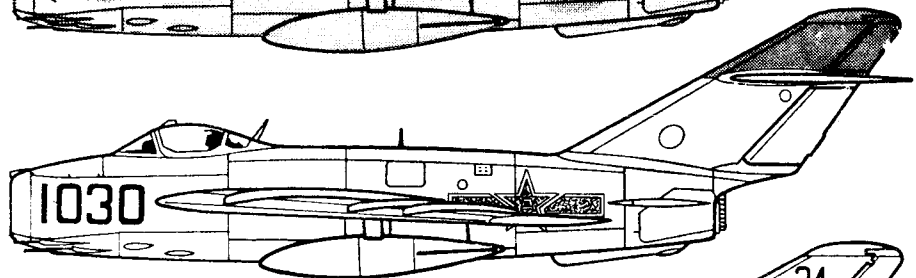
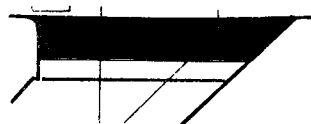


742 re-painted All but
serial on fin overpainted with
fresh light grey, appearing slightly
darker. Arrow red. Note new insignia.

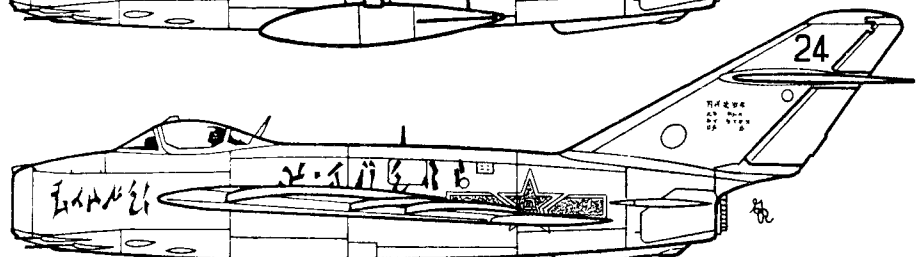


PEOPLES REPUBLIC OF CHINA

MIG-17F Red 1030 and fin tip
Black wing walk both a/c

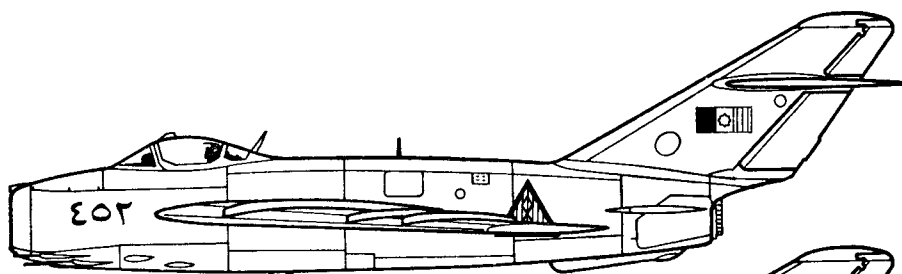


Chinese built Shenyang MIG-17
Fin and fuselage characters probably
red, 24 and nose characters black
Shape of fin characters unknown



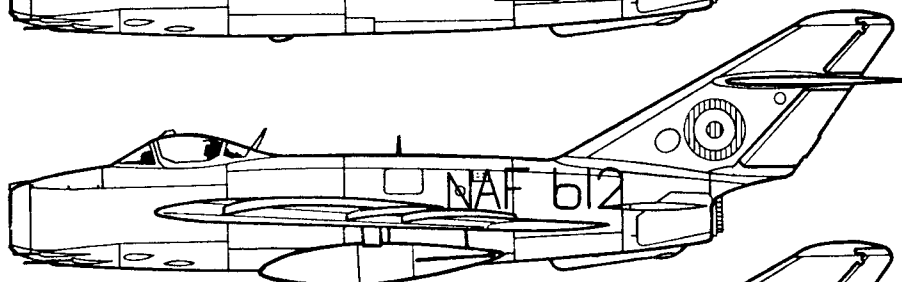
IRAQ

MIG-17F
Black Symbols (452)

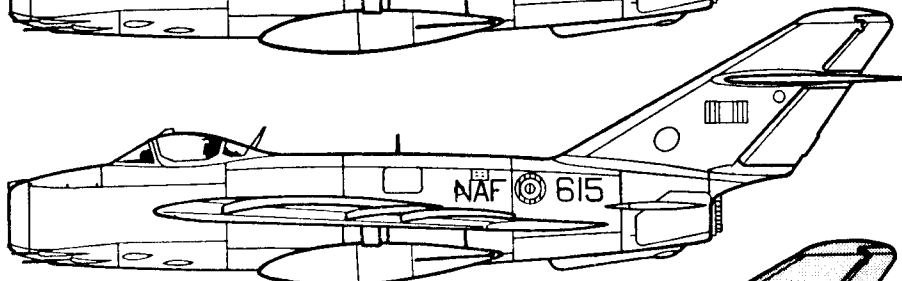


NIGERIA

MIG-17F
Black NAF 612

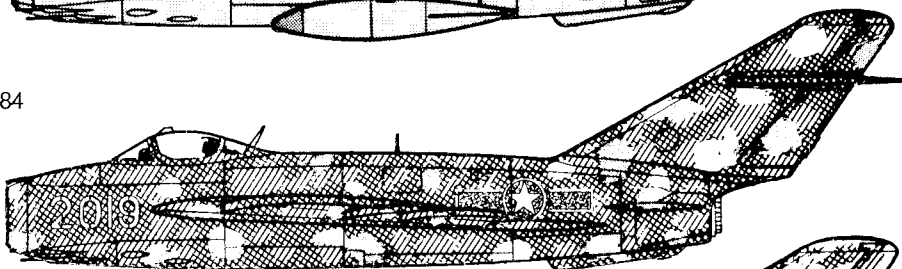
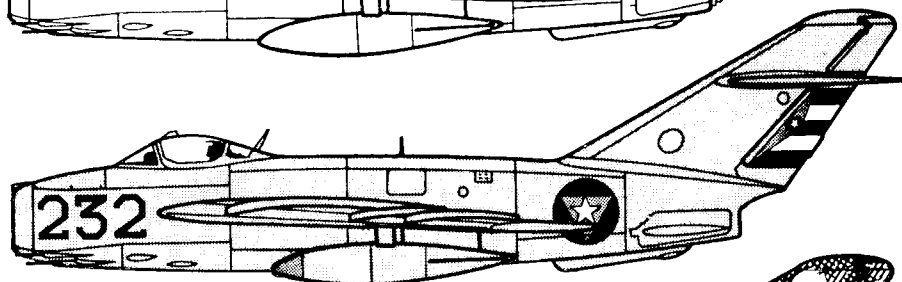


MIG-17F
Black NAF 615
Note wide variation in markings



CUBA

MIG-17 Overall light grey. Red tips on tanks. Dark blue 232. Note: On Oct. 5, 1969, Lt. Eduardo Jimenez, defecting from Cuba with this a/c, successfully evaded Cuban and American radar and proceeded to land at Homestead AFB. There was no alarm until a returnee from SEA called the tower and reported that there was a MIG in the pattern. The air traffic controllers believing it an F-84 had given it permission to land after it had rocked its wings. The a/c was later returned.

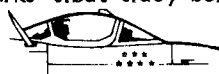


DEMOCRATIC REPUBLIC OF VIETNAM

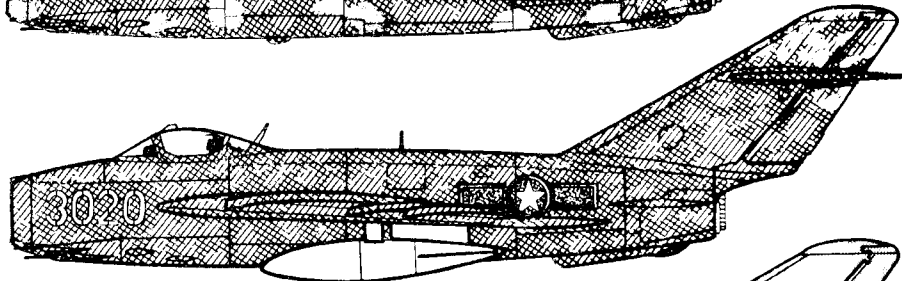
Both a/c MiG-17F's Numbers and "kill marks" orange red. Camouflage VERY patchy, applied on all surfaces top and bottom

Deep green Light olive
Cromate green Tan

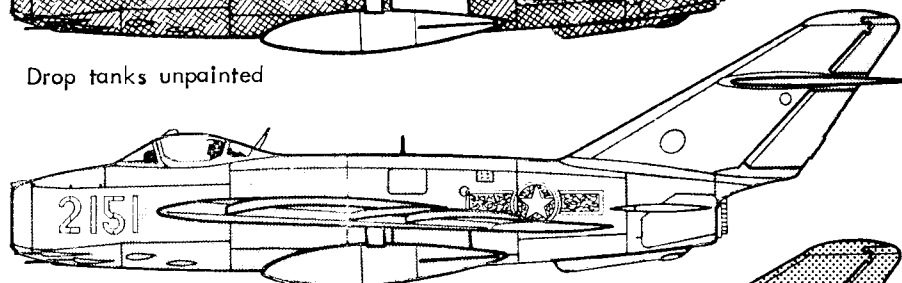
Kill marks stbd. side, both a/c



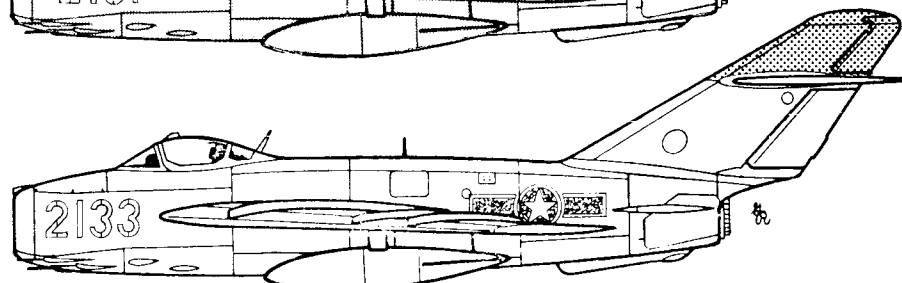
MiG-17F Overall light grey
2151 red



Drop tanks unpainted



MiG-17F 2133, red
Fin tip, bright blue



MIG-19 FARMER



KOVOZAVODY PROSTEJOV 1/72ND MiG-19 KIT REVIEW

This looks good, in the box. The surface detail is what 1/72nd should be - conservatively done. The light grey plastic parts are unfortunately marred by numerous gross shrink holes and local warpage, and something I'd never seen before, tears in the plastic from mold removal. Most of the shrink holes can be satisfactorily filled. The most notable exception being the main wheels, one of which in my kit, and also one of which in Brent's kit, were unuseable as a result of shrink holes. I'm going to use Hawk T-6 wheels with aluminum foil hubs pressed from the one good wheel in my K-P kit.

Scale Modeler said the decals were fair - they vary considerably from kit to kit - Brent's were awful - mine are pretty good. You get Czech, Pak and Russ plus a nice instrument panel.

As to the main corrections, the nose is the toughest; it's too small, too short, and too low, and even this varies - Brent's is lower than mine! These missed proportions are quite obvious in the display kit built by Lee Scow, shown at the National Convention and in Scale Modeler for December 1972. The average modeler is advised to grit his teeth and ignore the nose. The serious nut can build a new nose using Plastruct 9/16" Butyrate tubing.

The aft body is altogether too narrow, but short of scratch building a new body, this cannot be corrected; and, anyway, with the tail planes in place, it's fairly well camouflaged. Unfortunately, the aft body is also too narrow to match the tail cone. This can be fairly easily corrected. Cut a piece of .040" sheet about 1" long and glue the sheet in position between the body halves on top at the rear to shim them apart. When dried and filled and filed as required to close the small gap you've created.

Correct the fin/rudder and tail planes as shown in the sketches.

As the external tanks provided by K-P are too small, use the tanks from the Central MiG-19, replacing Central's fins with the K-P fins. Add sway braces as shown in Greg's drawings.

Use Hasegawa MiG-17 main gear struts, and replace the too large K-P nose wheel with a smaller one from the junk box.

I used a main wheel from a Revell 1/72 Zeke on a slightly shortened K-P strut and fork. Add the retraction cylinder as shown for the main gear; also note the angled hinging of the small outboard main gear cover.

The commendably thin and well molded canopy is unfortunately too tall. Take it down by filing off the bottom, up to the top of the bottom frame line. The scuttle in front of the windscreen must also be reduced in height, which is well because it is not as prominent on real MiG-19's as it is on this kit.

The wing root cannon are too large; see illustrations.

The fairly large inboard wing fence on the K-P kit is discernable in MiG-19 photos as only a reinforcing strake over the wheel well. Take it down to about 1/32" height.

Trim out the "pen-nib" fairings for the twin tailpipes so they actually look like the fine intersection of two cylinders.

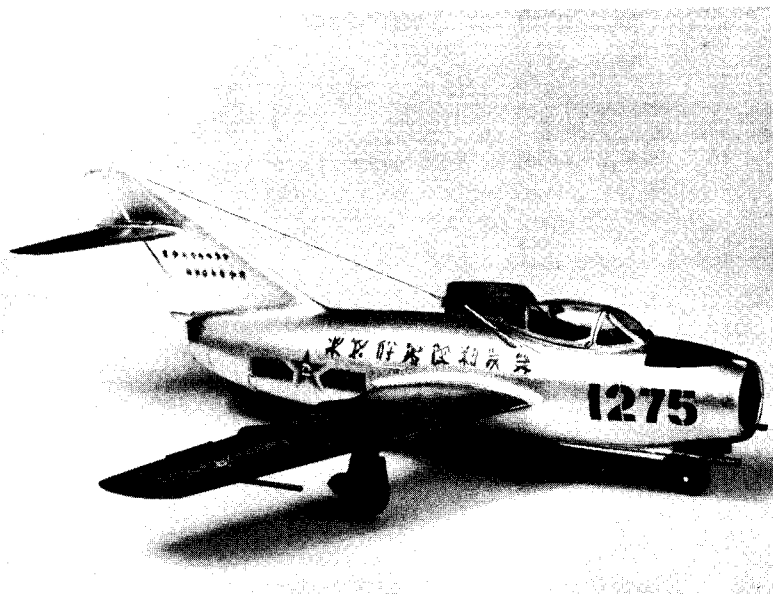
CENTRAL 1/72ND MiG-19 KIT REVIEW

This one's another winner! The wings are grossly too thin, and although wheel wells are correctly, if too shallowly, demarked (and too far inboard too) on their undersides, there are also totally incorrect wheel wells in the body. The horizontal tail, which is in fact shoulder-mounted, is given as mid-mounted in the kit - that's probably the hardest defect to correct. The tail also is too short in span. The only things good from the kit are the decal sheet, which has several national marking sets useable on any 1/72nd MiG or IL-28, and the tanks which can be used on the K-P MiG-19. In view of the relatively high quality of K-P's newly released MiG-19, it's probably best to pass this one up. ggd.

TAMIYA 1/100TH MiG-19 KIT REVIEW

Except for the nose and wheels you'll want to build this one stock right out of the box - its quite good. The nose lip radome is too flat on top and needs to be fattened up a bit with filler. All three wheels are grossly too skinny (do you guys begin to suspect I've got a fetish about fat wheels?). Try Aurora's 747, Revell's 707, or Airfix's 737 main wheels, and for a new nose wheel a good 1/72nd tailwheel from your junkbox.

Conformation, detail, fit, decals, etc. are all basically good except as already noted. One small fit problem occurs around the tailpipes and their pen-nib fairings, a little judicious filling and filing is required to make this area really believable. ggd.



People's Republic of China MiG-15 in 1/100th by Mike Quan from the Tamiya kit. Script is hand lettered.

Mikoyan-Gurevich MiG-19

art: Greg Reynolds

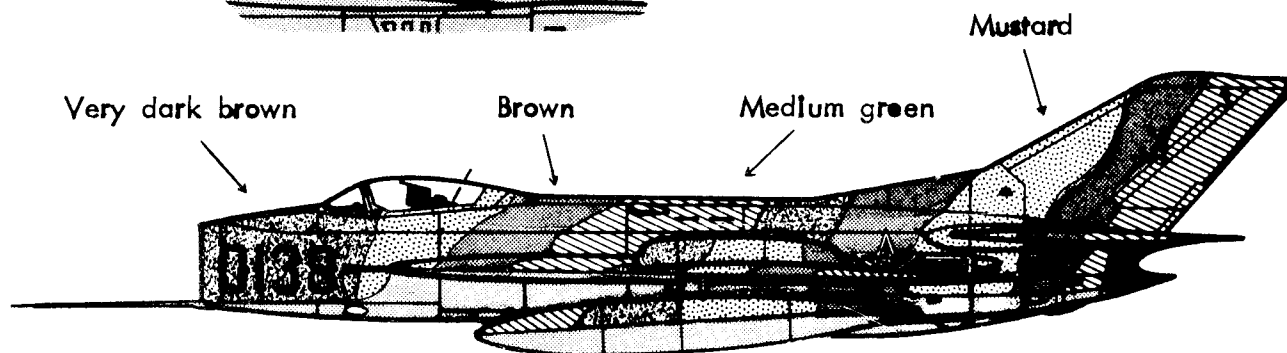
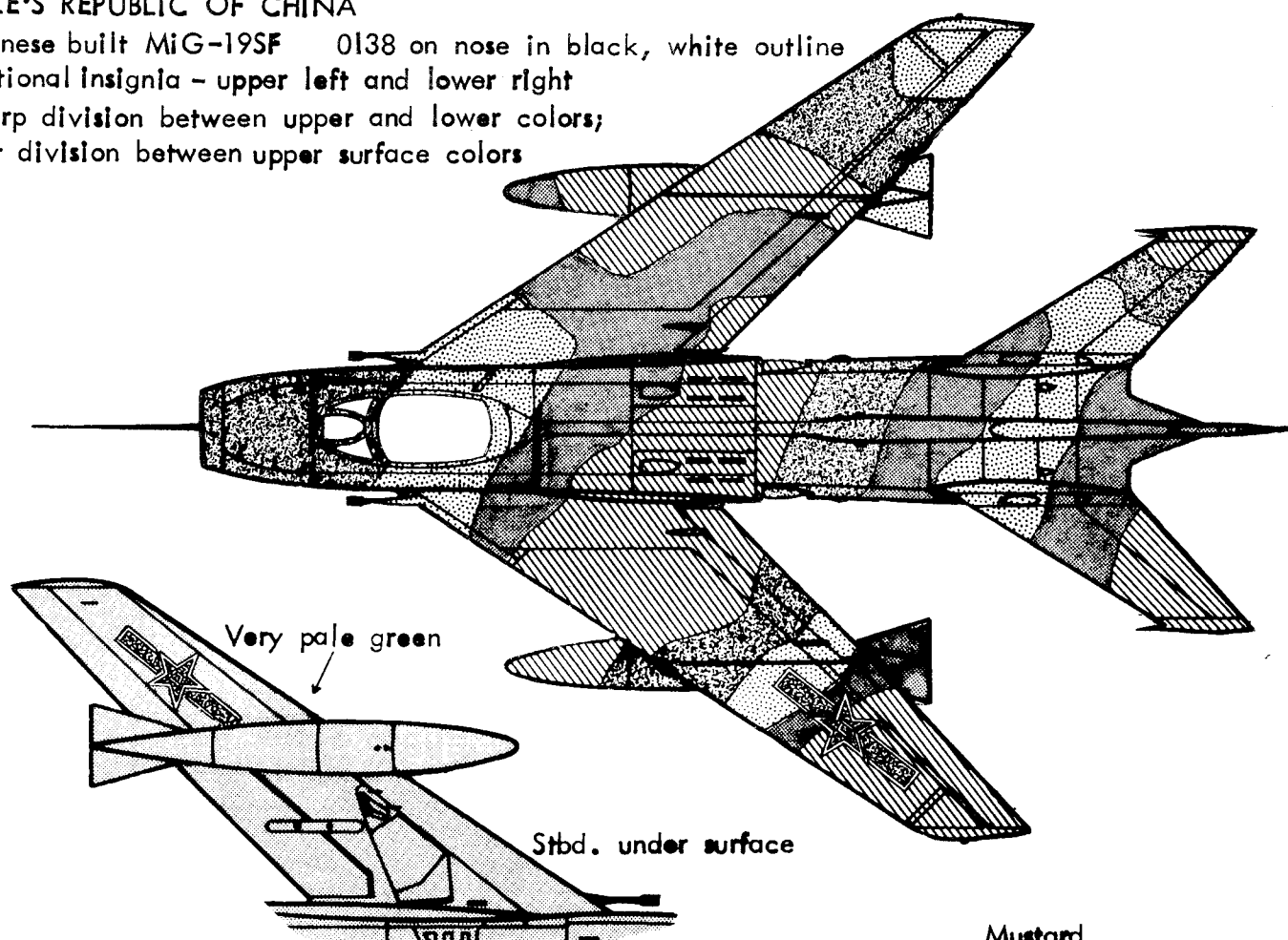
PEOPLE'S REPUBLIC OF CHINA

Chinese built MiG-19SF 0138 on nose in black, white outline

National insignia - upper left and lower right

Sharp division between upper and lower colors;

soft division between upper surface colors

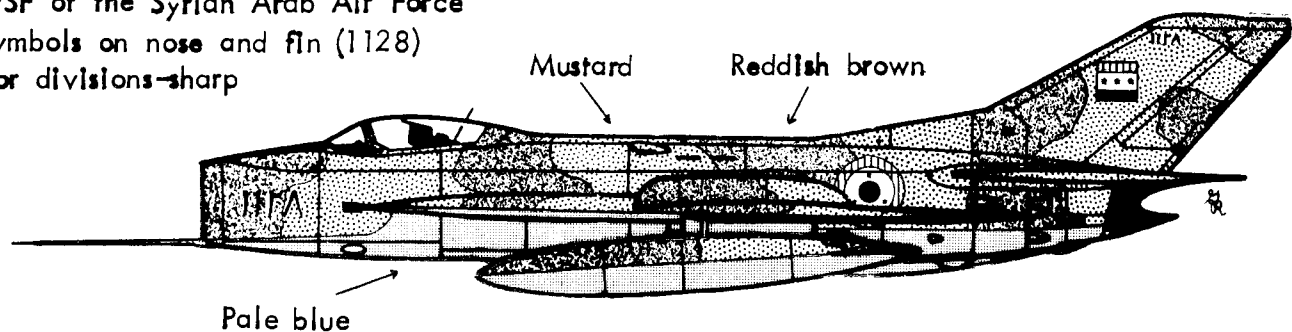


SYRIA

MiG-19SF of the Syrian Arab Air Force

Black symbols on nose and fin (1128)

All color divisions-sharp



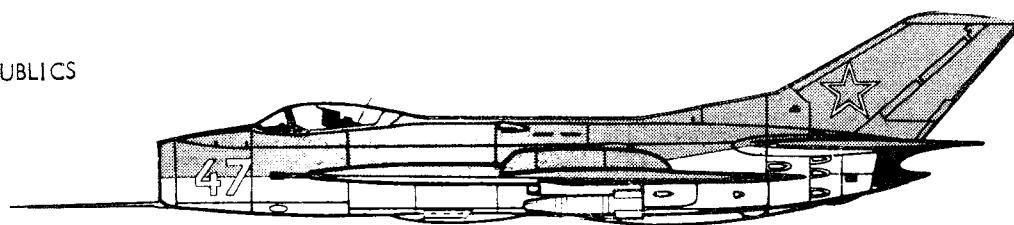
UNION OF SOVIET SOCIALIST REPUBLICS

Russian Aerobatic Team MiG-19SF

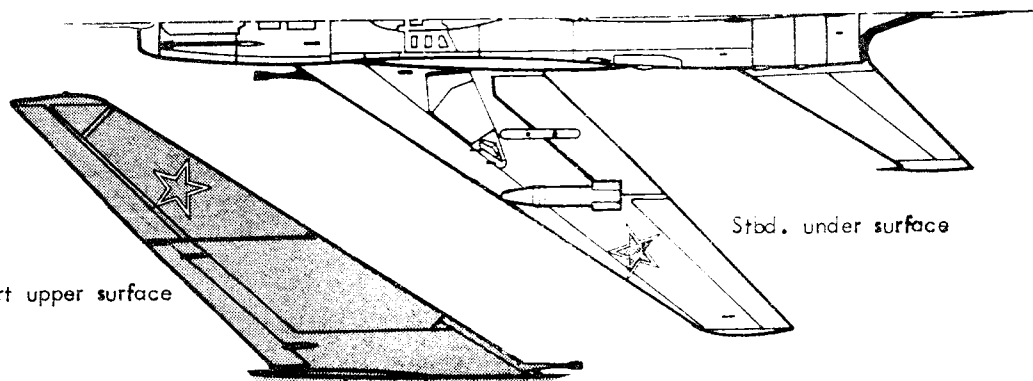
Upper surface-red

Under surface-natural metal

White numbers



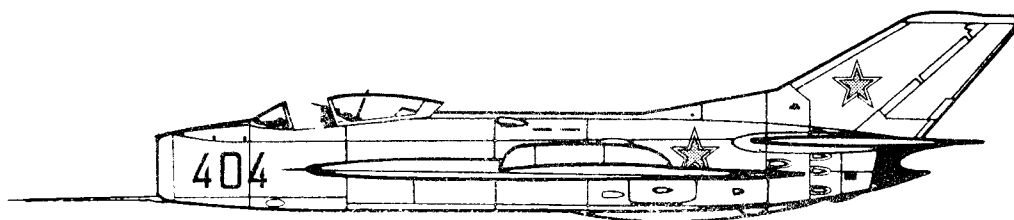
Port upper surface



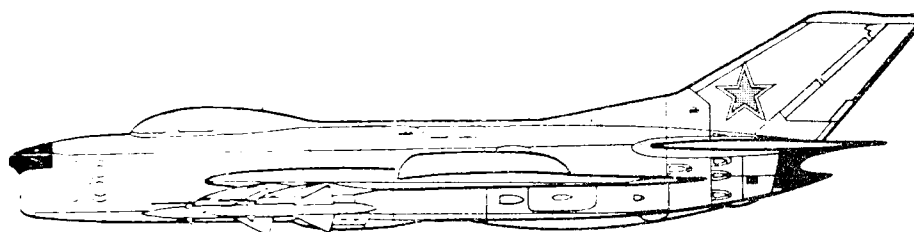
Stbd. under surface

Initial production model

(Farmer A) Black 404



MI G-19PM final variant (Farmer E)
Red 18 with black outline



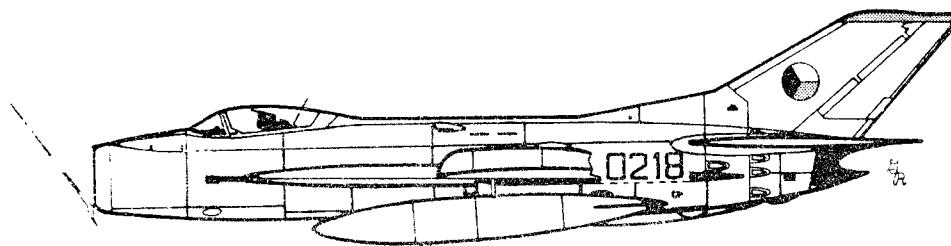
CZECHOSLOVAKIA

MiG-19SF (Farmer C)

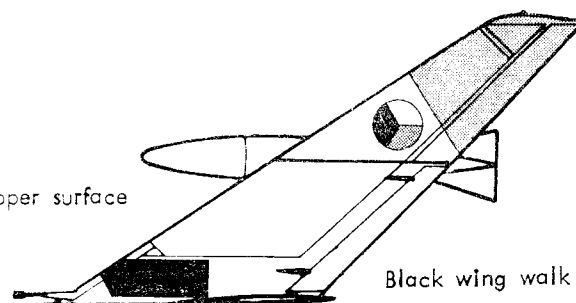
Red tips on wings, fin and elevators

Black 0218

Note probe in folded position and light grey protective paint on nose



Stbd. upper surface



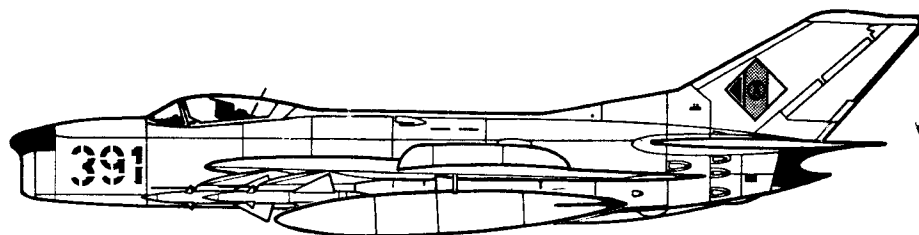
Black wing walk

Cuban
Insignia
Stbd. under surface



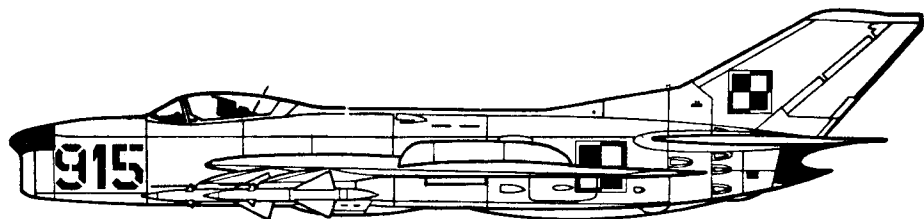
GERMAN DEMOCRATIC REPUBLIC

Initial MIG-19PM Black 391



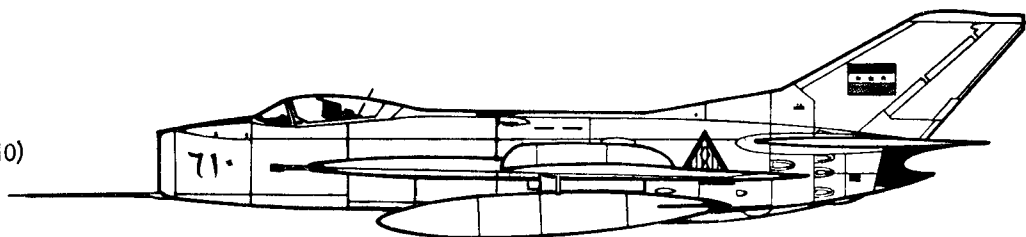
POLAND

Initial MIG-19PM Black 915
Note Inboard pylon retained
outboard pylon and tanks deleted



IRAQ

MIG-19SF Black symbols (610)



PAKISTAN

All a/c Chinese built MIG-19SF's
Black code and serial numbers

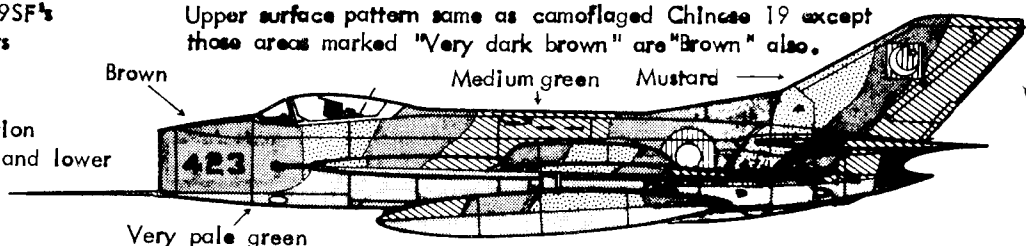
Natural metal aft canopy section
Sharp division between upper and lower
colors; soft division between
upper surface colors

Upper surface pattern same as camouflaged Chinese 19 except
those areas marked "Very dark brown" are "Brown" also.

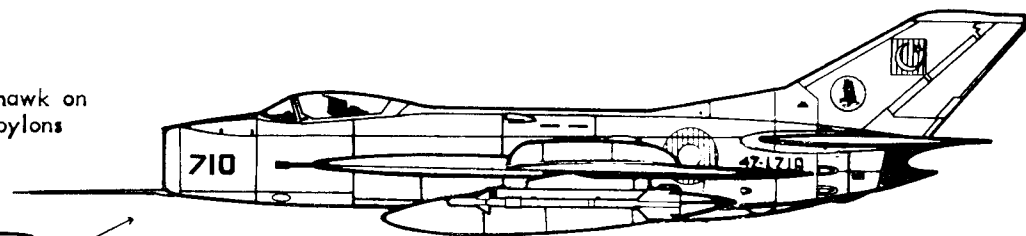
Brown

Medium green Mustard

Very pale green

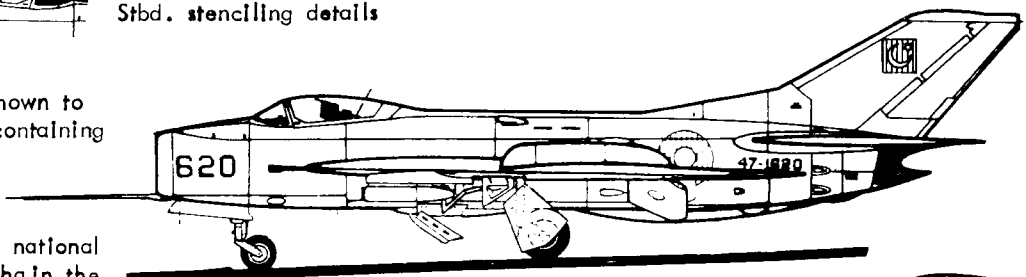


Badge on tail probably black hawk on
white disc Note additional pylons
to mount Sidewinders



Stbd. stenciling details

Notes: Tanks and pylons not shown to
reveal landing gear and pod containing
eight 55mm rockets

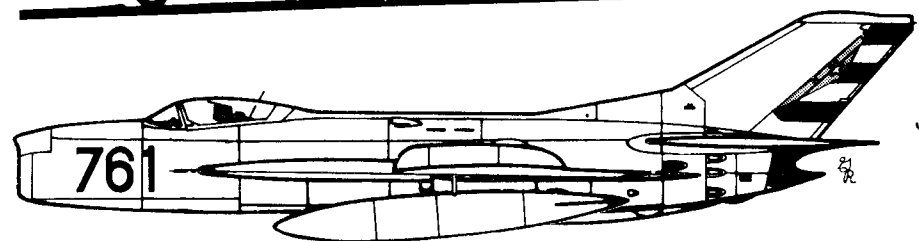


Not illustrated:

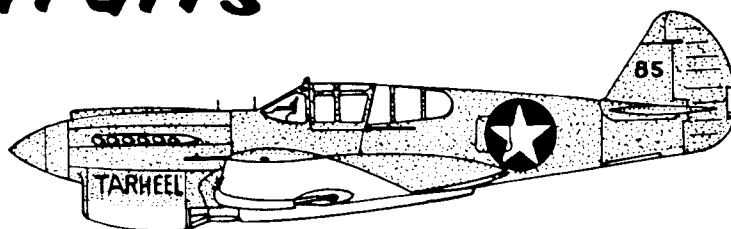
Overall flat black; no markings save national
Insignia - 6 places. Based at Sargodha in the
southern Punjab - India/Pakistan War

CUBA

Initial night fighter model (Farmer B)
Black 761



Contrails



MAJOR GEORGE E. PREDDY CHAPTER INTERNATIONAL PLASTIC MODELERS SOCIETY, USA

Volume 4, Number 1

March, 1972

A MIG BY ANY OTHER NAME

It has been called too short-ranged, inadequate fire power, too unsophisticated, too much maintenance, etc. However the fact remains that not only is it used by over 20 nations, but it is one of the most beautiful of the supersonic aircraft. As Col. Broughton said in THUD RIDGE, there's not a Phantom or Thud driver around that wouldn't give his chances in heaven to fly a MiG-21. It has always been a mystery to me why, in view of all the sophisticated NATO intelligence-gathering sources, they feel it necessary to assign code names to Russian aircraft. If NATO can deduce that so many missiles or aircraft are based or manufactured here or there, then surely they can discover the correct nomenclature of Russian aircraft. If all the "F" fighters might be mis-typed or misunderstood--"did he say Flipper, Fishbed, Fitter or Fishpot?" Well, that's another item and the MiG-21 has been given the name FISHBED. The definitive day fighter, MiG-21F is known as the Fishbed C. The all-weather types, MiG-21PF as Fishbed D, E, F, or J. There are 3 1/2 MiG-21 kits on the market; the Airfix Fishbed C, the Hasegawa AMT/Frog Fishbed C and the IMC Fishbed D. The Airfix C is more accurate than the off-scale Hasegawa model so we have not considered the Hasegawa kit here. Considering that there is not much information about (declassified anyway), photos are always fuzzy, and the dimensions were just recently published by the Russians, both the Airfix and IMC kits are remarkably accurate. Neither is 1/72 scale, however: Airfix having too long a fuselage and the IMC kit being about 1/69. However, this is attributable to a lack of information when the kits were produced some time ago. The "off-scaleness" of these kits does not detract, but these drawings are designed to fit the kits and consequently are NOT 1/72 scale. The only serious error in either kit not reflected in these drawings is the fact that the Airfix fuselage from about the mid-point to the front is angled up too much. This does not detract and would be difficult to correct, so if you check the kit against the drawing, keep this in mind. Most of the other errors are of a detail nature, so let's start enumerating, using the numbered keys.

MiG-21F (FISHBED C) (AIRFIX)

1. The canopy is accurate, except that it is not very well molded. You may want to Vac-u-form this. It is shown in the normal open, "ground-stance" position.
2. This wheel well bulge needs to be enlarged slightly. Also, the wheels themselves are too small and need to be

- replaced. Use some wheels that fit the drawings from other kits, I would suggest checking the other IMC kits as many of these contemporary aircraft use similar wheels.
3. These are scoops that need to be opened.
4. Remove the extra bulges from this bulge.
- 4a. The fin is too high and will have to be cut down. Also, the 3 small antennae in the kit need to be replaced with sprue that is much smaller. The same applies to those 3 antennae just aft of the nose gear doors.
5. This ring is missing from the kit. I would suggest using the bomb ring from a large scale German kit (or a piece of suitably sized plastic, brass, or aluminum tubing).
6. These are very slight bulges and must be added to the kit.
7. The fin needs to be reshaped to the correct configuration and the forward part is "bottle green" (for you car nuts - that's akin to "British Racing Green").
8. The air brakes have been changed considerably from time to time on MiG-21s, but the correct configuration is shown (open). Note that this is one piece and bulged. The closed position is shown on the PF drawing and the underside view on the 2nd page of drawings. Note the small retraction rod. The interior color is dark grey, and the brake does have holes.
9. The wing fences need to be reshaped, but only slightly on the outer one--see the Airfix box art, which is correct.
10. The main gear covers are wrong and you'd best make new ones from sheet plastic. Note that they are canted outward at 30 degrees from the forward line; the covers only, not oleos and wheels. Note the retractor.
11. You'd best make new wheel well doors, getting them bigger and in the proper shape. Note that there is a slight bulge in them, not nearly as much as the PF model.
12. Note that Airfix has this fairing too short on the front. They have depicted the bulge for the earlier model using a cannon. The 'C' uses only missiles and consequently the bulge is reshaped using it as an electronic equipment storage bay.
13. These forward brakes are a weird shape, and need to be added as the kit does not depict them at all. See also item 4 on the underside plan.

MiG-21PF (Fishbed D) (IMC)

We have not shown a drawing of the 'D', but to make this earlier version as depicted in the IMC kit, use all the steps of the 'F' drawing except #6 (canopy), #9 (fin), and #11 (parachute brake housing). The canopy is correct

as is for the 'D' version. The fin needs to be shortened just a bit as shown in the 'F' drawing. The parachute brake housing and lower fin would be like that of the 'C'.
MIG-21PF (Fishbed E) (IMC)

This is shown in the Syrian AF scheme. Use ALL the steps of the 'F' drawing except #6 as the canopy in the IMC kit is correct.

MIG-21PF (Fishbed F) (IMC)

1. Reshape the nose cone. It appears that IMC worked from a photo where the aircraft had its cone cover on and that would account for the too long cone. Also, thin down the lips of the intake to a sharper edge.
2. Note the shape of the pitot mounting and correct the kit. Make a new pitot from stretched sprue.
3. Note that when you add the kit intake to the fuselage, there is a "dish". It should be a smooth, continuous curve, so fill in here.
4. Again (as in the 'C') make new antennae here and on the fin.
5. Add this bulge.
6. Rework and repolish the canopy adding the new framework.
7. Enlarge this intake and note that you cannot see the actual opening from the side as depicted in the kit.
8. The wheels of the D, E, F, and J versions are much larger than the 'C' and consequently the bulges in the kit are too small. Build them up with putty.
9. Make the fin extension from .030 sheet and putty, shortening it slightly. Also, reshape the rear fairing and add the small fairing below it and the antenna. Fill in just ahead of the fin as shown.
10. Reshape this fairing.
11. A new parachute brake housing will have to be made from sprue and putty.
12. Open and add these scoops.
13. Reshape the wing fences as on the 'C' type.
14. Reshape and add these bulges.
15. Reshape the lower fin.
16. Again, as on the 'C', add this air brake and bulge. Ground position can be either open or closed for all versions.
17. Add this ring to the tail cone - as item 5 for the 'C' type.
18. The landing gear door bulges are much bigger and actually go past the door on either side. Remark the doors as on the 'J' drawing below.
19. Add the forward air brakes and drill the hole for the ground power plug. Not numbered, but the stores racks are wrong and need to be reshaped.

MIG-21PF (Fishbed J) (IMC)

1. Note the side-hinging canopy, common to the F and J types.
2. Add this small scoop.
3. Make a new parachute brake housing and note that it is different than the E and F types.
4. Fill in the dorsal spine so that it is a straight line back from the canopy.
5. The wheels are much larger than the 'C' or the ones furnished in the IMC kit. Look through the other IMC kits for wheels of a suitable size. This wheel size is common to the D, E, F, and J types.
6. Make new wheel well doors and bulge them as related above.
7. Make the forward air brakes.
8. Make a new pitot tube and note that it is NOT like the D, E, and F types, but is off-set. Look at the plan.

Use all of the other steps as described in the F type above.

PLAN

This is the J plan, but the remarks below cover all versions, except for #1 and #3.

1. Pitot, note the off-set.
2. This area is counter-sunk.
3. This canopy is only for the F and J types.
4. Fences--correct for C, D, E, F, and J types.
5. This spine applicable only to the J type. The D, E, and F types are narrower as on the IMC kit.
6. Remove the rear "bullet" from the IMC kit and round off the Airfix one slightly.
7. Both Airfix and IMC have these bulges slightly too large.

UNDERSIDE PLAN

1. Note the shape of the bulged airbrake and the holes.
2. Note the shape of the gear covers.
3. Again, the wheel well/door bulge.
4. Note the shape of the forward airbrakes for the D, E, F, and J types

OTHER NOTES

The interior color is dark grey and this includes cockpit, wheel wells, air brakes, nose scoops. A section of the fin at the top on E, F and J types is also dark grey. The intake cones on almost all aircraft are dark "bottle green". The front 1/2 of the belly fin is also "bottle green". The landing gear is medium grey.

THE SCHEMES

1. MIG-21PF (Fishbed E) of the Syrian AF (1969)

Upper surface colors are delineated on the plan for the color mixes given below. The undersurfaces are white. The syrian roundel is in two positions on the fuselage only with the fin flash on the tail. The number on the nose is black. The cone, intake lip, and front of lower fin is "bottle green". The exhaust ring is dark metal.

2. MIG-21PF (Fishbed J) of the CSSR AF

Overall natural metal. The CSSR insignia in 6 positions and remember that the blue always faces forward. The nose cone and front of lower fin are "bottle green". The 1921 is black. The checks on the rudder are black on white. The intake lip is a "fret" design of black and white. The pitot tube is black and white striped except for the last one foot which is metal. Stores include drop tank, 2 air-to-air missiles, and 2 rocket pods. Note that the Airfix drop tank will have to have its fins shortened slightly if you use it.

As you can see from the above, most of the corrections/conversions are of a detail nature, nothing like major surgery. It is remarkable that both kits are as accurate as they are. It has been said that kits of Russian aircraft are losers on the market-place. We hope not; perhaps we can look forward to the Su-7?

"Bottle" green

5 parts anti-glare green
1 part forest green
13 parts black
5 parts Navy blue (M3)

"Middle stone"

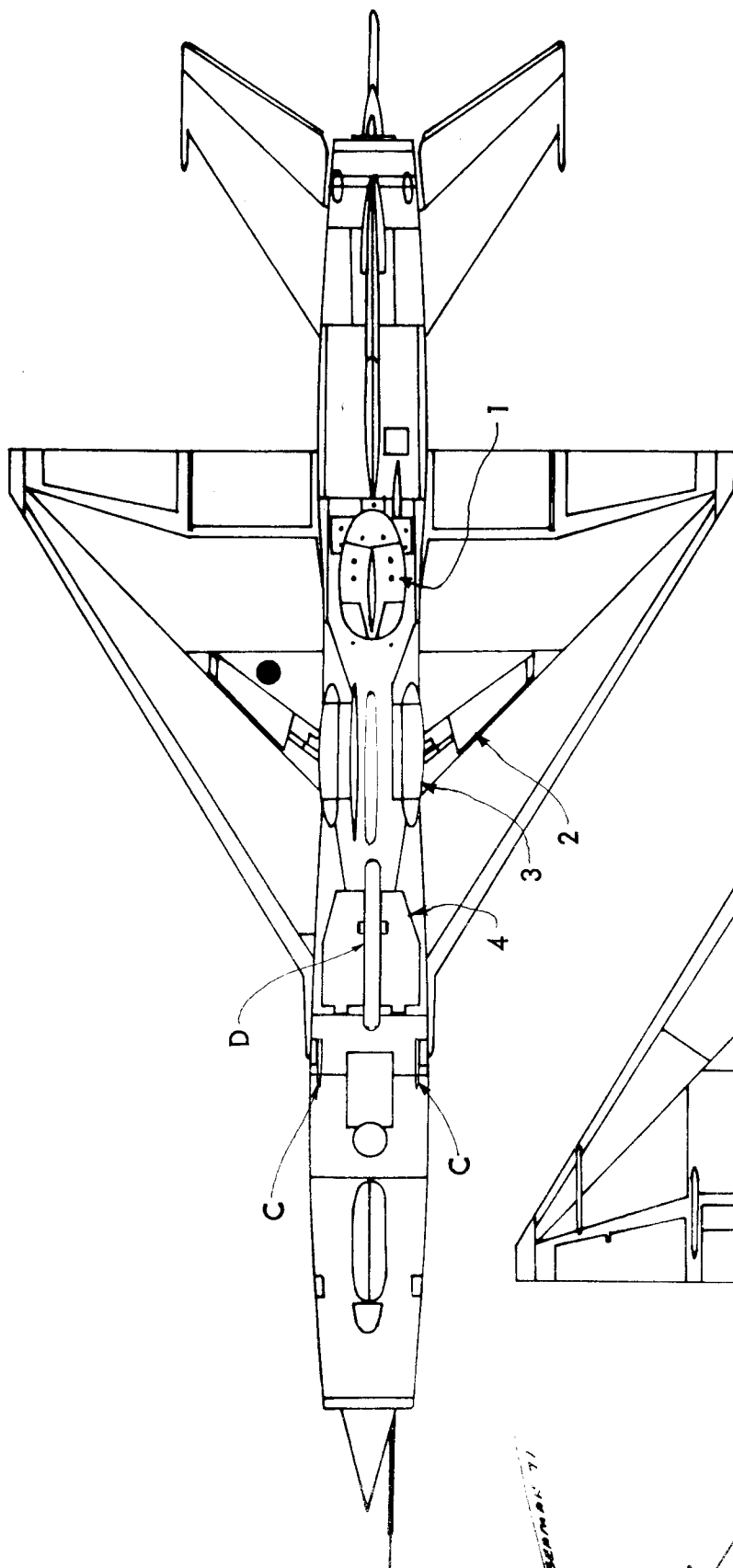
12 parts mustard
6 parts dark earth
1 part black

"dark earth"

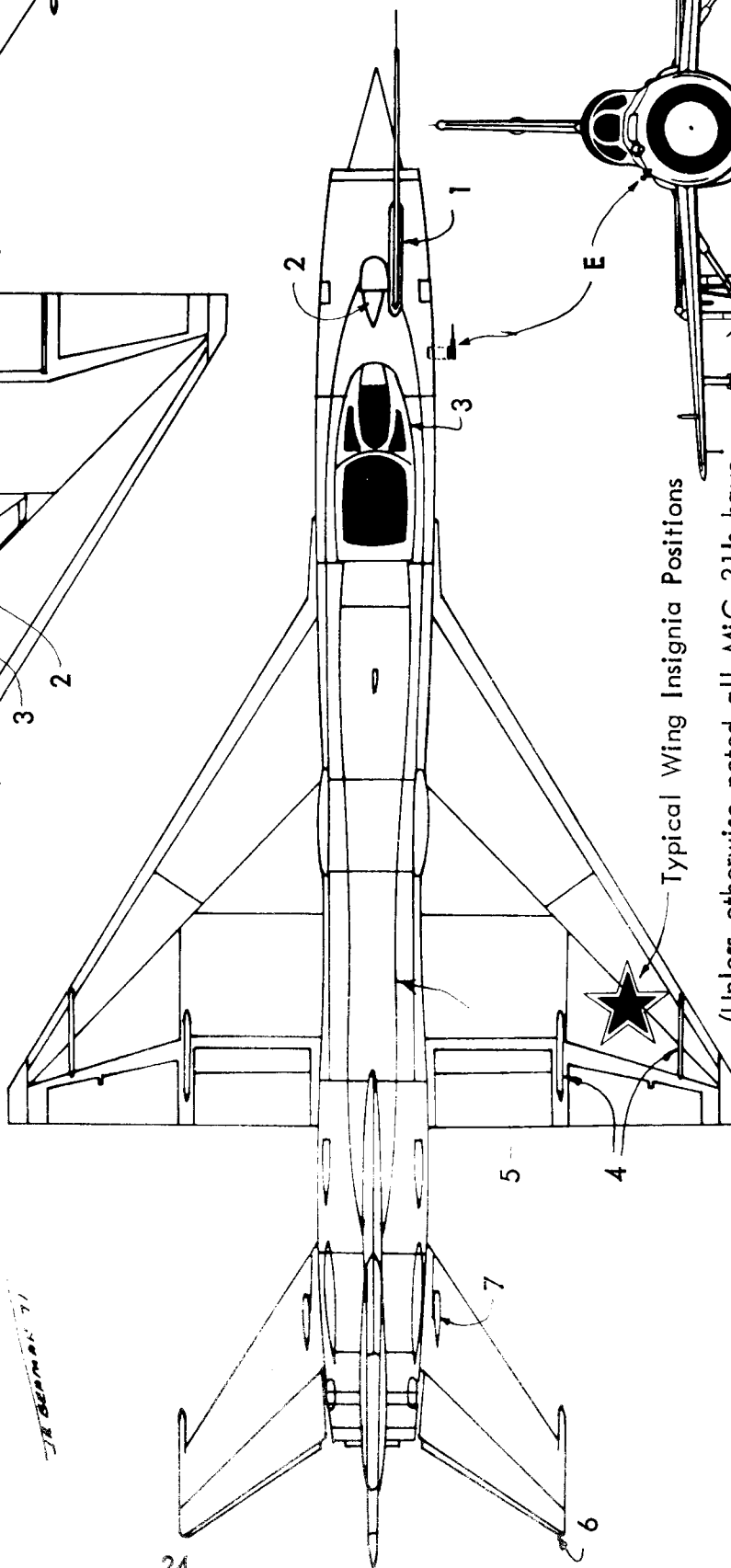
5 parts dark earth
1 part black

All colors are Pactra matt.

dark grey is a match for hot rod primer

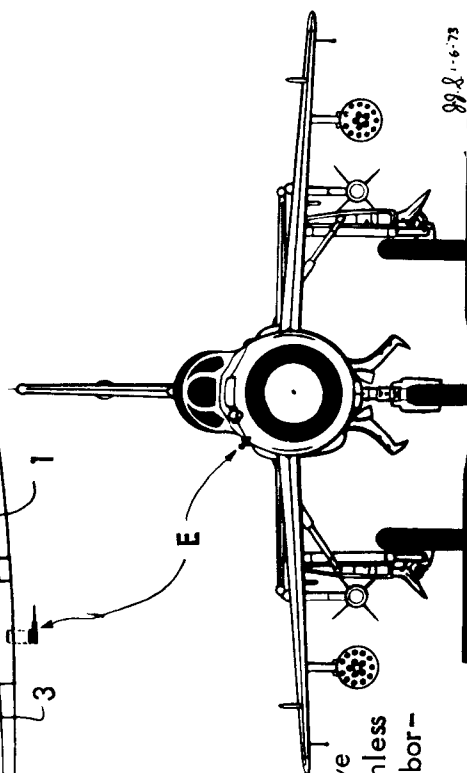


11-000000-71



Typical Wing Insignia Positions

(Unless otherwise noted all MiG-21's have wing insignia in usual 4 places. Also unless otherwise noted all Russian red stars are bordered white, outlined red.)



MIG-21 FISHBED / MIG-21UTI MONGOL



HASEGAWA 1/72ND MiG-21F (FISHBED-C) KIT REVIEW

Boy Hasegawa really blew this one! The only excuse is that it's an early kit, but the body is grossly oversize. The wings and tailplanes, peculiarly, are just right for use on, and much better than, the Airfix and IMC kits.

The decal sheet is quite good too, giving Russian stars, Chinese stars and bars and Czech roundels, plus appropriate numbers.

Buy one of these kits for each model you plan to build from the Airfix and IMC kits.

AIRFIX 1/72ND MiG-21F (FISHBED-C) KIT REVIEW

Not bad. As John Beaman suggests you can build it pretty stock and wind up with a nice looking model. I think it'll look better if you use the wings and tailplanes from the Hasegawa kit. Trim the wing root as shown in the sketch, and remove the raised star outlines. Recut the wing spigot to fit the Airfix slot. Align the wing T.E. with the T.E. of the root fillet upon installation. The Hasegawa tailplanes are thinner with sharper leading and trailing edges than the Airfix; you must, however, straighten both in plan slightly.

I used Hawk T-6 wheels with aluminum foil hubs embossed from the Hasegawa wheels. You could also use the Central MiG-19 wheels.

The decal sheet gives unuseable Finnish roundels, along with appropriate numbers and the cat unit emblem of the H'a'vLv 31 of the Finnish A.F., unuseable Russian stars, and quite good Czech roundels.

The canopy is so bad you must Vac-u-form a new one.

Don't build this kit without first digesting John Beaman's article - reprinted herein.

IMC 1/72ND MiG-21PF (FISHBED-D) KIT REVIEW

Same basic comments as above, except that the wings are really bad, and must be replaced with either Airfix or Hasegawa wings - I favor the latter.

You'll need bigger wheels again. I used main wheels from a Comet 707 prototype for the smaller sizes, and the Hasegawa MiG-21 wheels for the larger.

IMC's canopy is as good as Airfix's is bad, and you can use it as is after filing down the framing a bit.

The decals are totally worthless.

Again, I must reemphasize the importance of reading John Beaman's article before starting work.

TAMIYA 1/100TH MiG-21PF (FISHBED-F) KIT REVIEW

This one looks worse than it is when you make your first tape-it-together check. (Doesn't everybody completely assemble the major components of a new kit with tape for a quick-look at its conformation?) Mostly the conformation is thrown off by a too high canopy which is easily

filed down to correct shape along with the body spine immediately behind the canopy. The nose fits a little funny, but with the help of John Beaman's drawings this can be corrected with a little filling and filing. Be sure to rescribe the correct canopy framing for the FISHBED-F; the framing you spoiled with the filing was for FISHBED's through E only.

You'll have to add the rear air brake bulge, as these are flush on the kit.

The shock-body cone in the intake is a little rough and needs tidying up. The main wheels from the Airfix 1/72nd MiG-21 look better for this bird than the wheels provided by Tamiya.

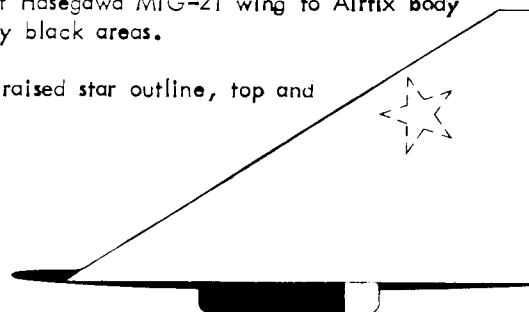
Decals look good, they're for Russia, Poland and North Vietnam. Of course you could swap decals with the MiG-15 or MiG-19 in 1/100th and add the further options of Cuba, East Germany, North Korea, or China.

AIRMODEL 1/72ND MiG-21 UTI CONVERSION CANOPY KIT REVIEW

This one's better than the MiG-15UTI, the side opening portions of the canopy can be used with the windscreen portion of Airfix's MiG-21. You can't use Airmodel's windscreen because it's lopsided. You can either fill from Airmodel's canopy spine to Airfix's, or you can do as Alan Hall did in his excellent article in the January, 1971 Airfix magazine article and make a new spine of wood.

To adapt Hasegawa MiG-21 wing to Airfix body cut away black areas.

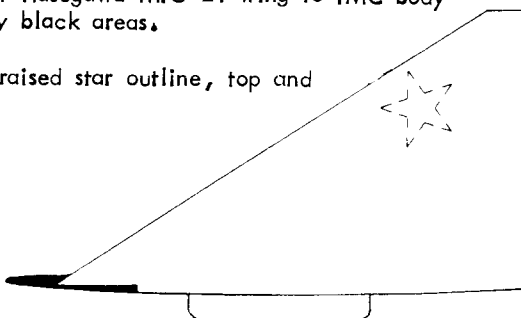
Remove raised star outline, top and bottom.



Almost no filling is required to tidy up the joint with the Airfix body.

To adapt Hasegawa MiG-21 wing to IMC body cut away black areas.

Remove raised star outline, top and bottom.

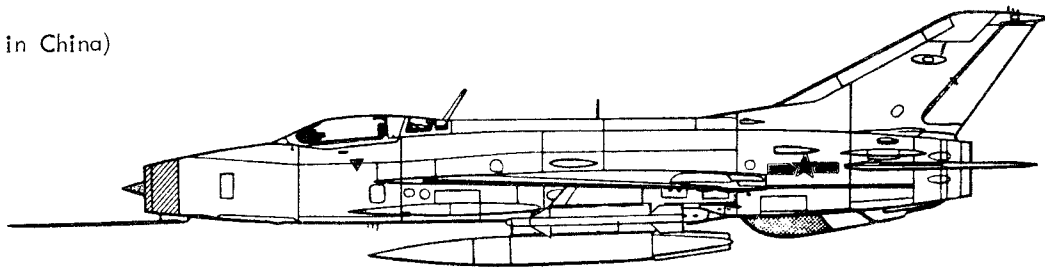


A little filling is required to tidy up the joint with the IMC body.

89.5.87

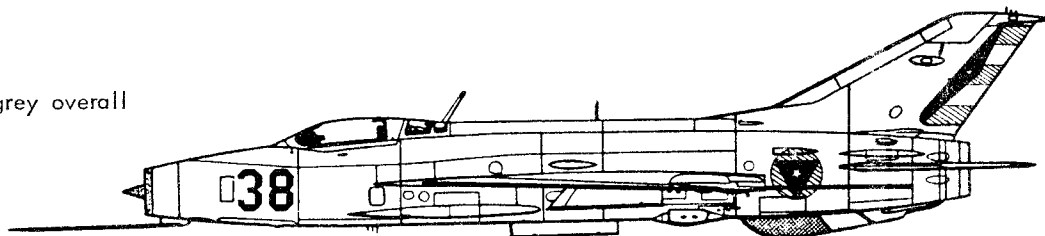
CHINA (Fishbed-C; license built in China)

Red nose
No numbers



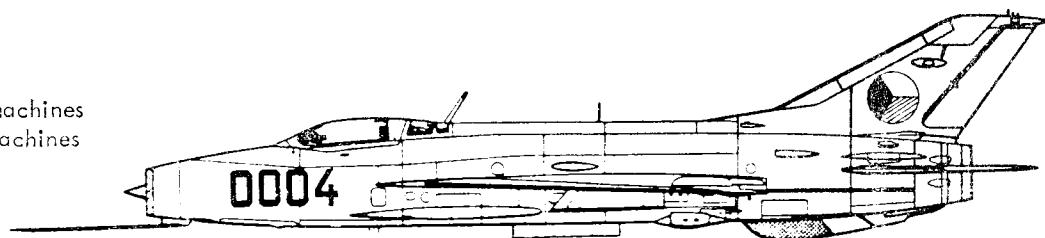
CUBA (Fishbed-C)

Black numbers
Some machines painted light grey overall
for corrosion control



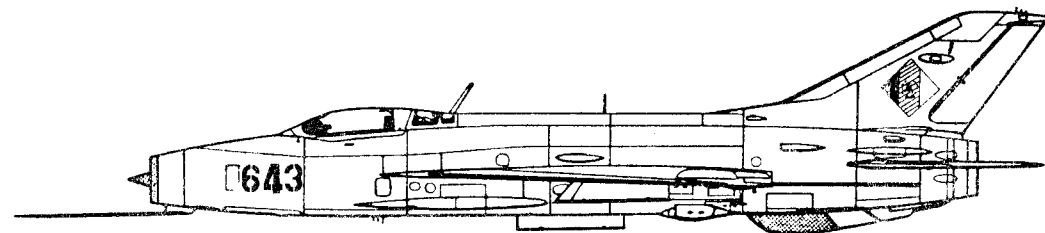
CZECHOSLOVAKIA (Fishbed-C)

Black numbers
Yellow belly tanks on some machines
White shock bodys on some machines



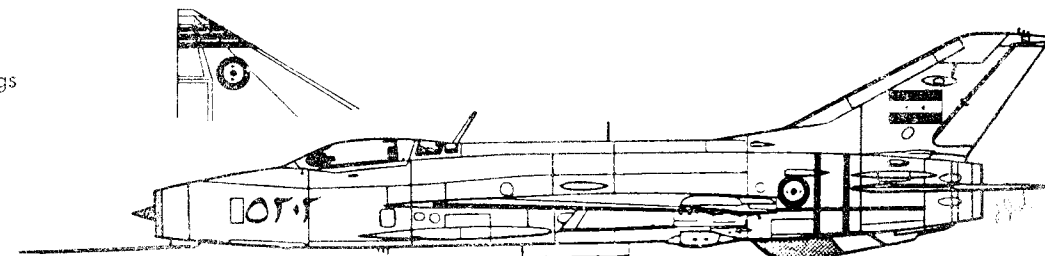
EAST GERMANY (Fishbed-C)

Black numbers



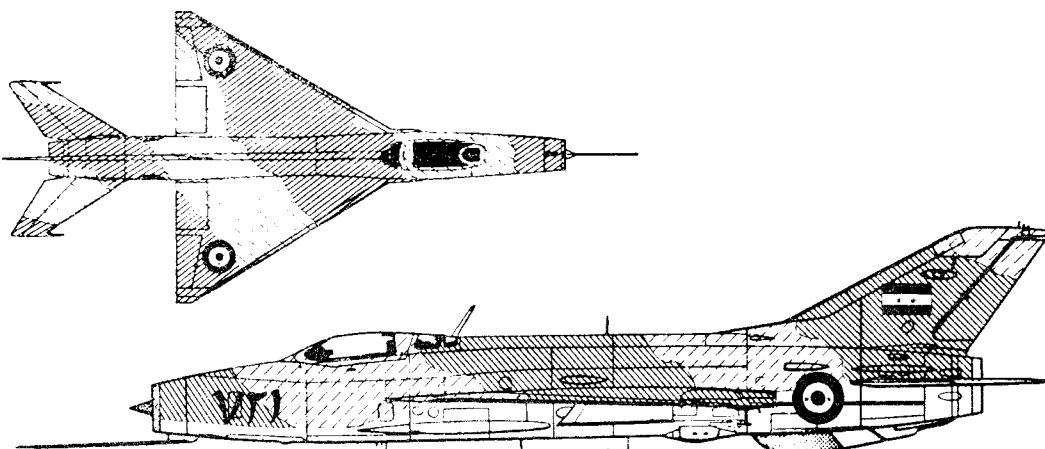
EGYPT (UAR, Fishbed-C)

Green bands - body and wings
Black numbers

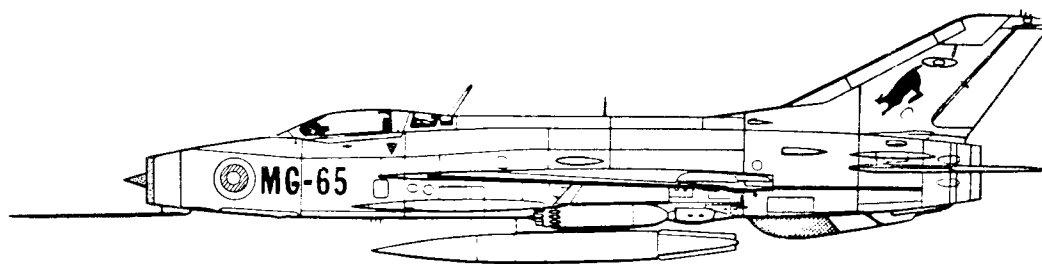


EGYPT (UAR, Fishbed-C)

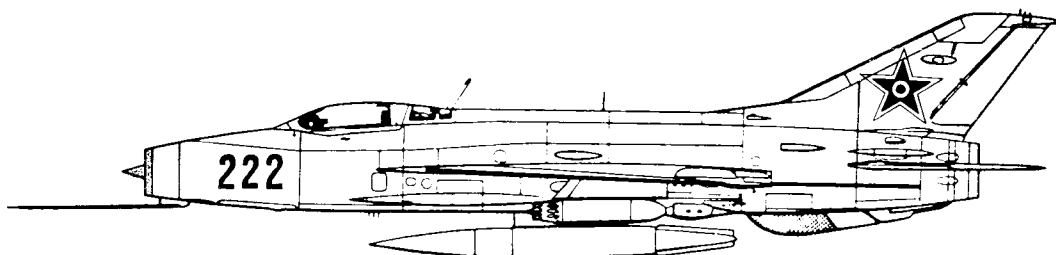
Mid brown (tan), dark brown
Light blue undersides
Black numbers
Natural metal pitot probe



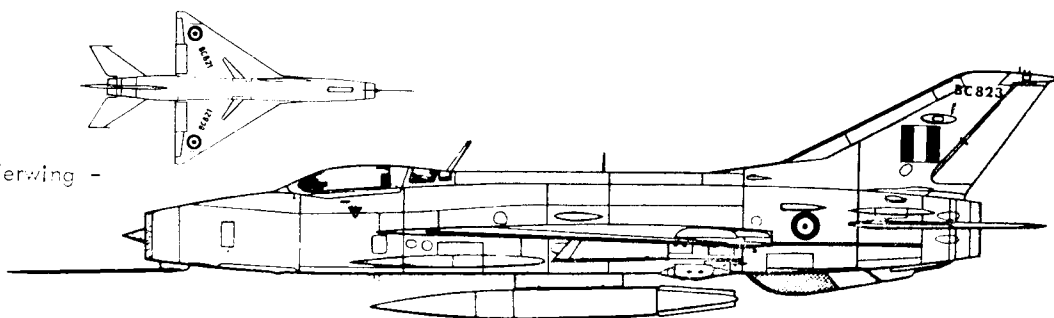
FINLAND (Fishbed-C)
Black numbers/cat



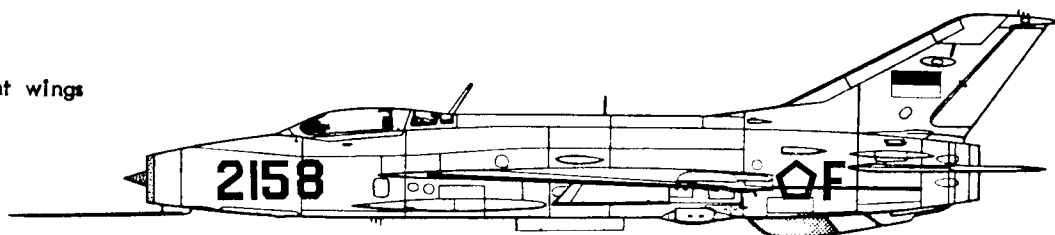
HUNGARY (Fishbed-C)
Black numbers



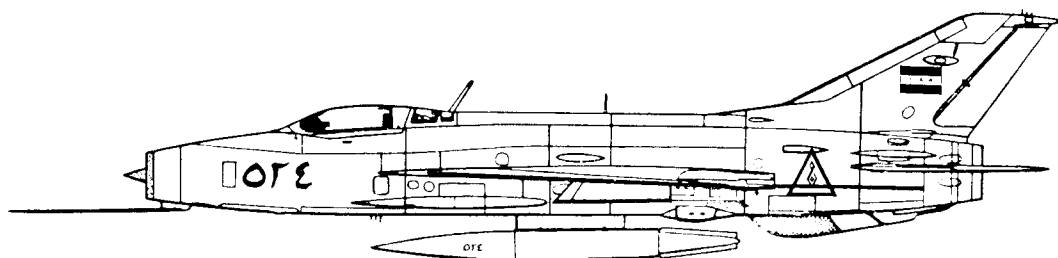
INDIA (Fishbed-C)
Black numbers
NOTE: Code locations - underwing -
one forward, one backward



INDONESIA (Fishbed-C)
Black numbers, letter
Insignia-upper left, lower right wings



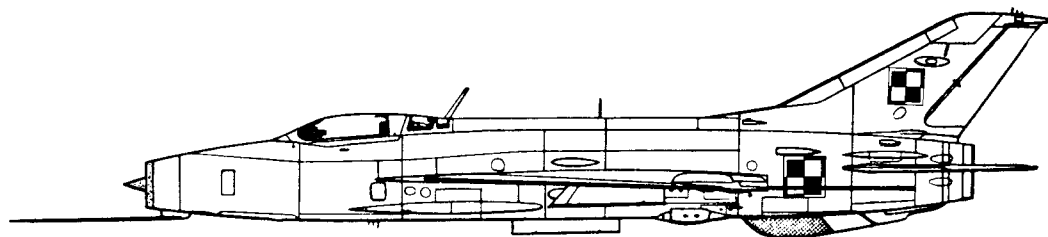
IRAQ (Fishbed-C)
Black numbers



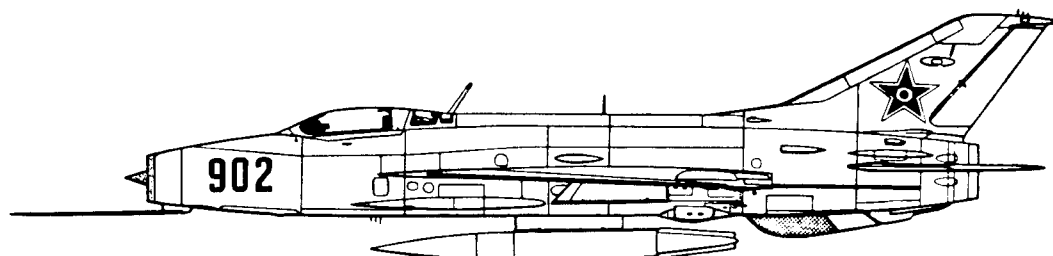
ISRAEL (Fishbed-C)
Blue numbers
Dayglow orange and insignia blue
conspicuity markings
NOTE: Dayglow orange surrounds or
insignia - 4 places, Blue nose
conspicuity



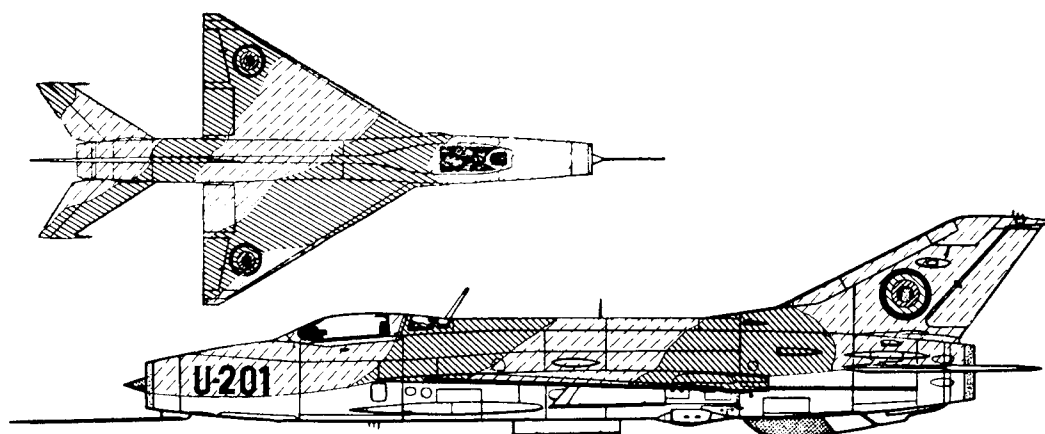
POLAND (Fishbed-C)
No numbers



ROMANIA (Fishbed-C)
Black numbers

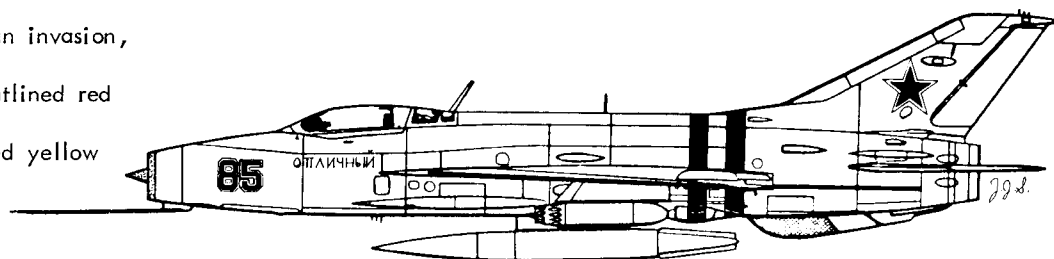


UGANDA (Fishbed-C)
Dark brown/grey topsides
Turquoise underside
Black numbers



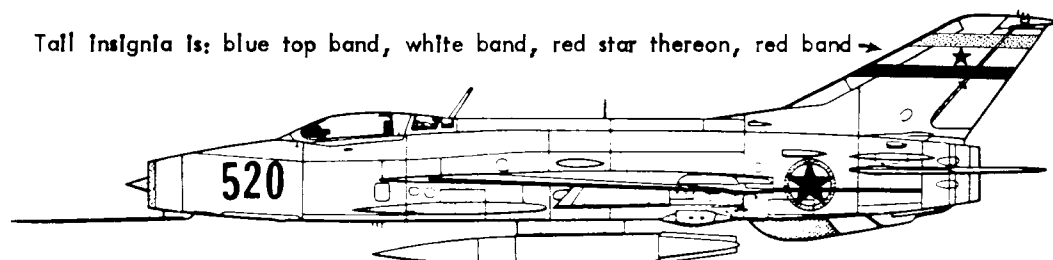
USSR (Fishbed-C; Czechoslovakian invasion, 1968)

Red star, bordered yellow, outlined red
Red body bands
Red numbers/lettering, outlined yellow

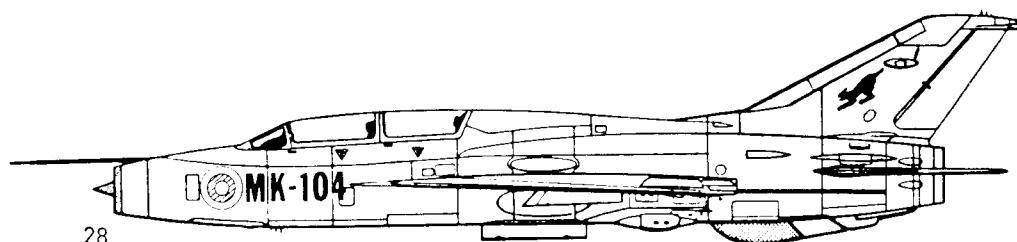


YUGOSLAVIA (Fishbed-C)
Black numbers

Tail insignia is: blue top band, white band, red star thereon, red band



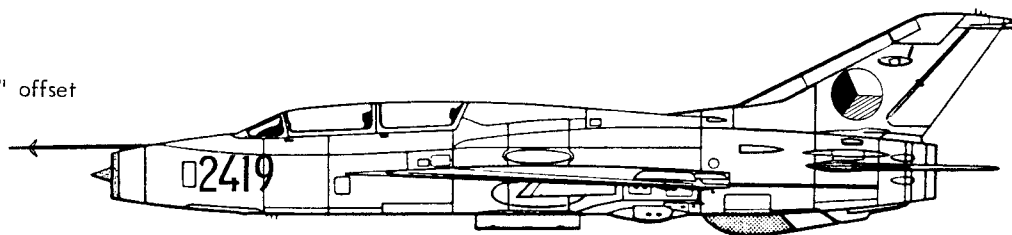
FINLAND (Mongol-A; MiG-21UT1)
Black numbers/cat



CZECHOSLOVAKIA (Mongol-A)

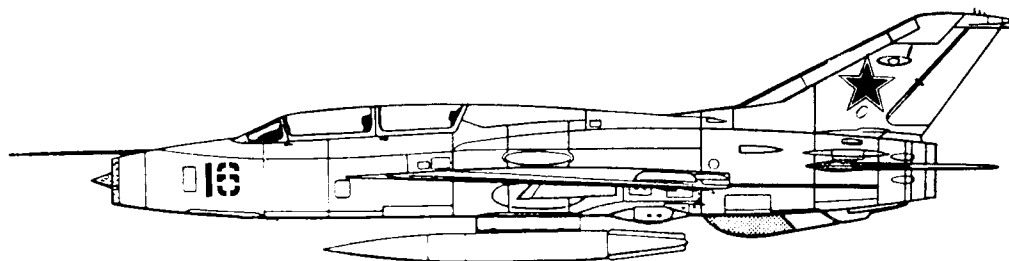
Black numbers

NOTE: Pitot probe on "Mongols" offset to stbd. per plan view



USSR (Mongol-A)

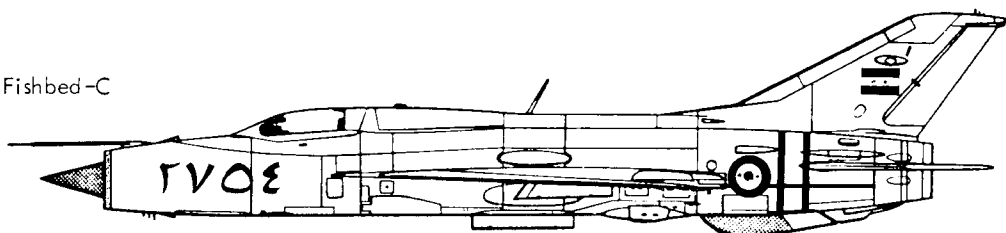
Black Numbers



EGYPT (UAR, Fishbed-D)

Black numbers

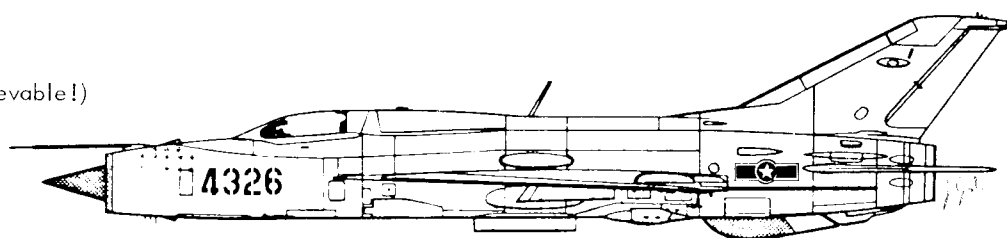
Green bands - body/wing as for Fishbed-C



NORTH VIETNAM (Fishbed-D)

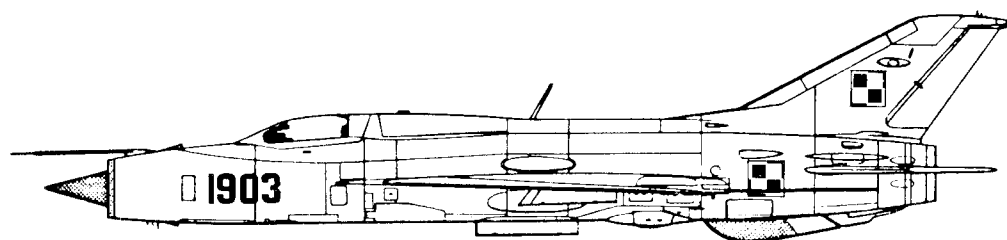
Red numbers

Red "victory" stars - 13 (Unbelievable!)



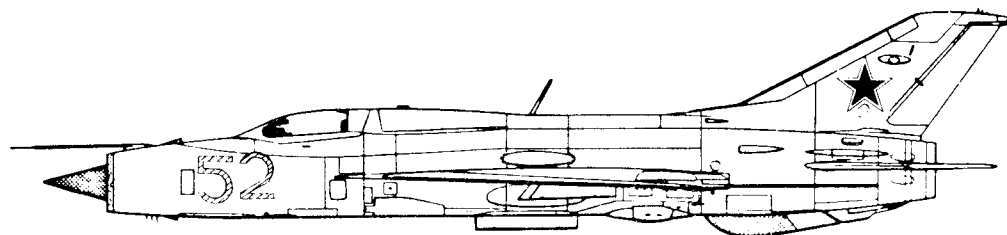
POLAND (Fishbed-D)

Black numbers



USSR (Fishbed-D)

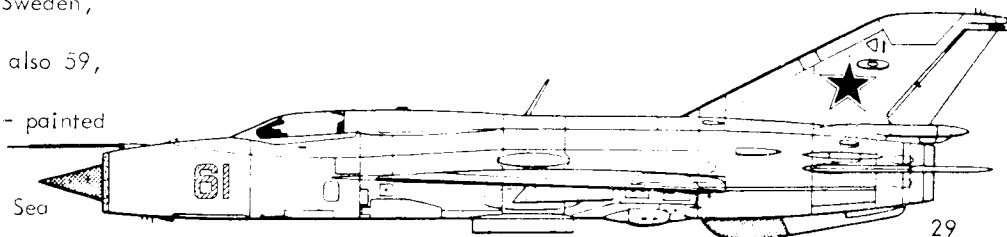
Red numbers, outlined black



USSR (Fishbed-E; Visit to Uppsala, Sweden, Dec. 1967)

Dark blue numbers - no outline, also 59, 62, 63, 64, & 65

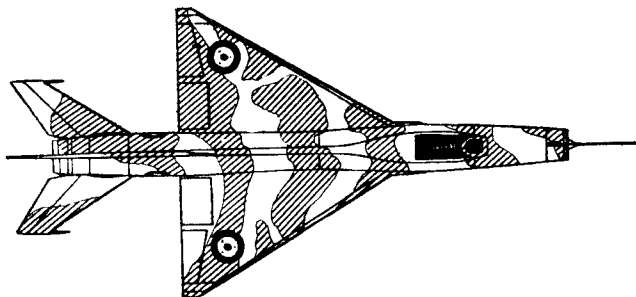
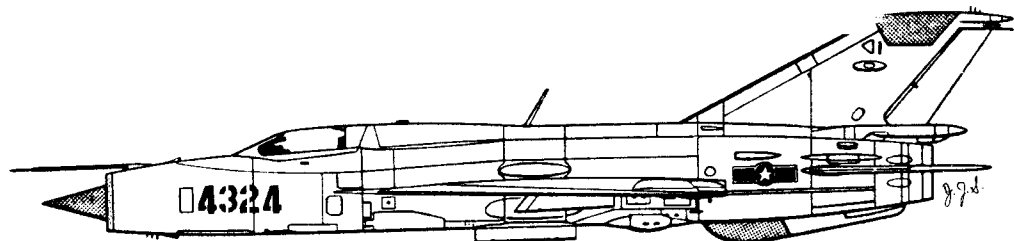
NOTE: Dielectric panel on fin - painted silver



was based at Riga on the Baltic Sea

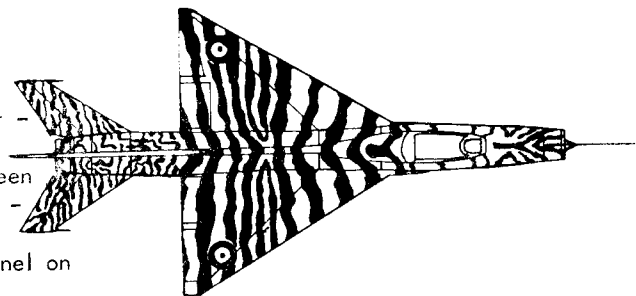
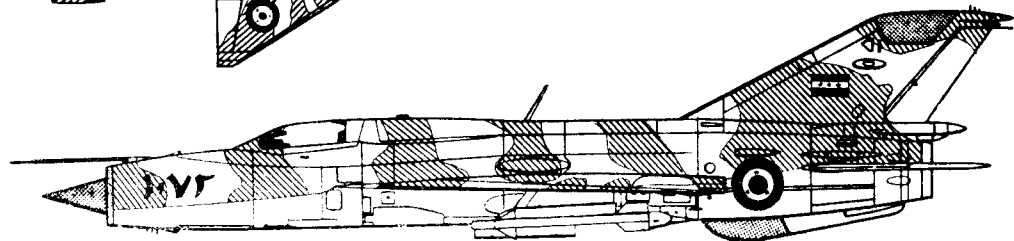
NORTH VIETNAM (Fishbed-E)

Red numbers



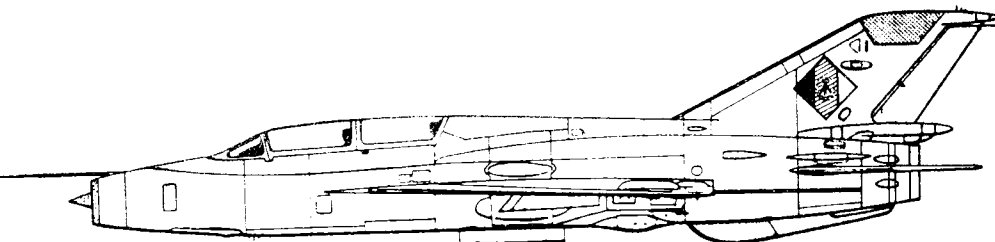
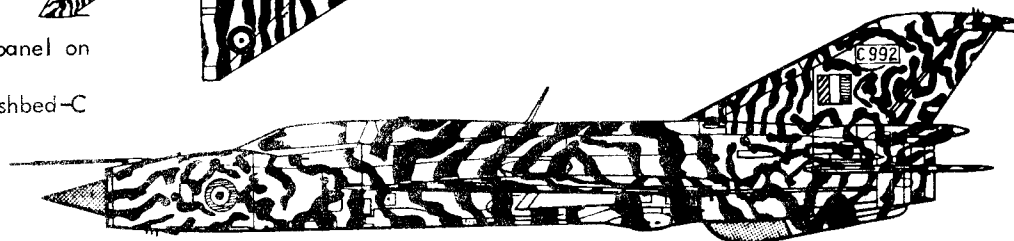
SYRIA (UAR, Fishbed-E)

See text for color details
White "Sidewinders"



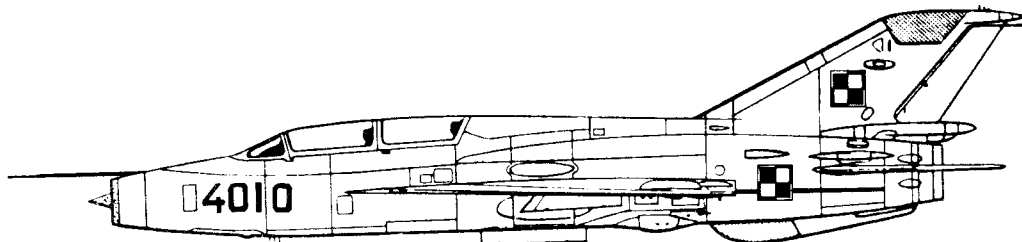
INDIA (Fishbed-E; India/Pakistan War - 1972)

Uppers - Dark green over light green
Undersides of wings and tailplanes - natural metal
Black numbers on natural metal panel on fin
Codes underwing as on Indian Fishbed-C
Floquil RR44 Depot Olive
Floquil RR48 Coach Green



EAST GERMANY (Mongol-B)

No numbers



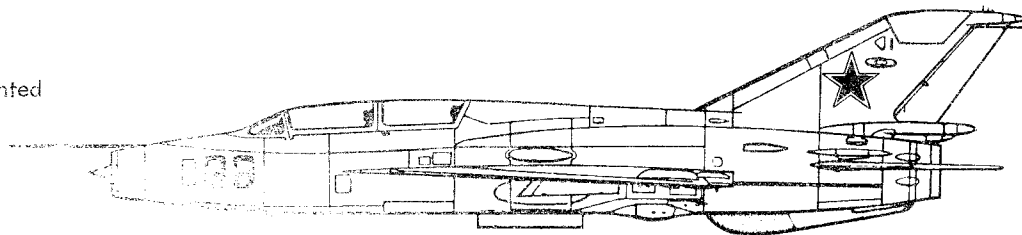
POLAND (Mongol-B, MiG-21UTI)

Black numbers

USSR (Mongol-B)

Black numbers

Dielectric panel on fin overpainted
aluminum



USSR AEROBATIC TEAM (Fishbed-F)

Red topsides

Natural metal undersides, & canopy
frame

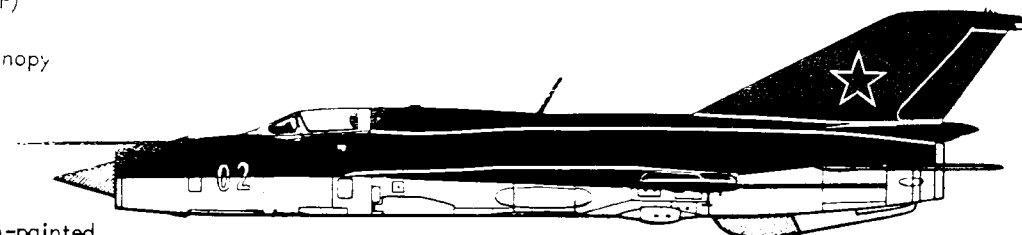
White numbers

White outlined stars - top

Normal Red stars underwing

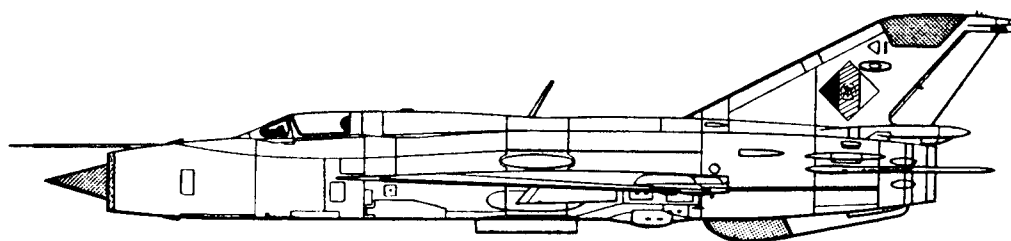
Delete missile and tank pylons

NOTE: Dielectric panel on fin-painted
red



EAST GERMANY (Fishbed-F)

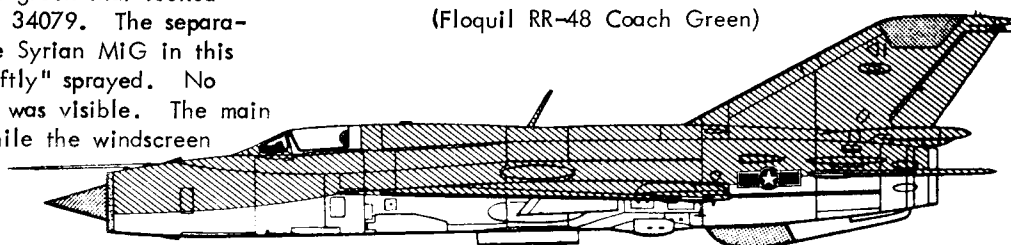
No numbers



FISHBED F of the North Vietnamese AF. I don't know how many of you were watching the NBC news on 15 Jan 72, but there was some color film of MIG-21's in North Vietnam. These were the 'F' type with the side-hinged canopy. All were natural metal except one which was white underneath with a green that looked a dead match for USAF dark green 34079. The separation line was similar to that of the Syrian MiG in this article except that it was very "softly" sprayed. No other markings or national insignia was visible. The main canopy frame was natural metal while the windscreen frame was dark green.

JRB

(Floquil RR-48 Coach Green)

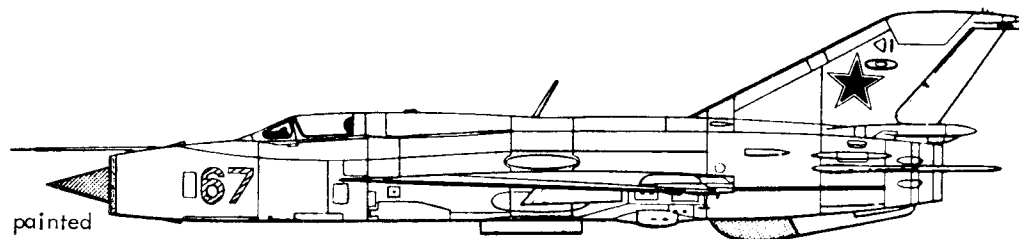


USSR (Fishbed-F)

Red numbers, outlined black

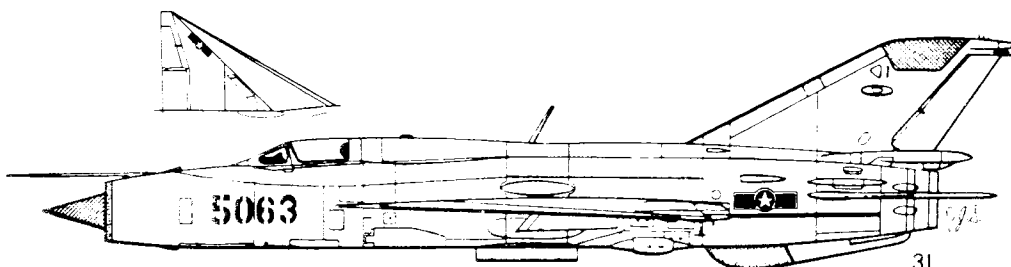
White intake lip

NOTE: Dielectric panel on fin - painted
silver



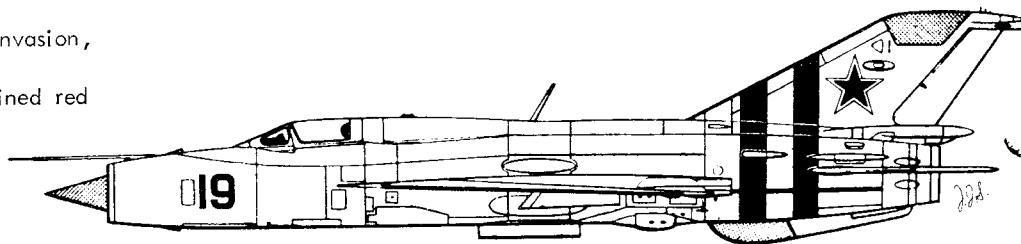
NORTH VIETNAM (Fishbed-F)

Red numbers



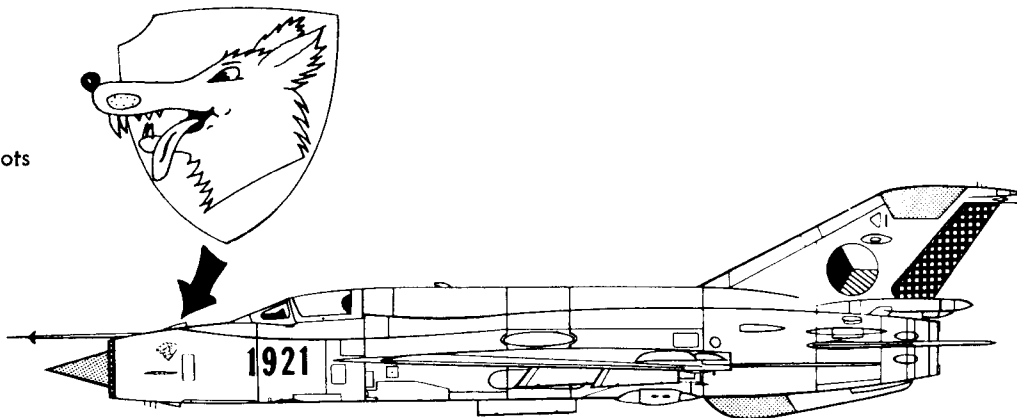
USSR (Fishbed-F; Czechoslovakian invasion, 1968)

Red stars, bordered yellow, outlined red
Red numbers, outlined black
Red stripes



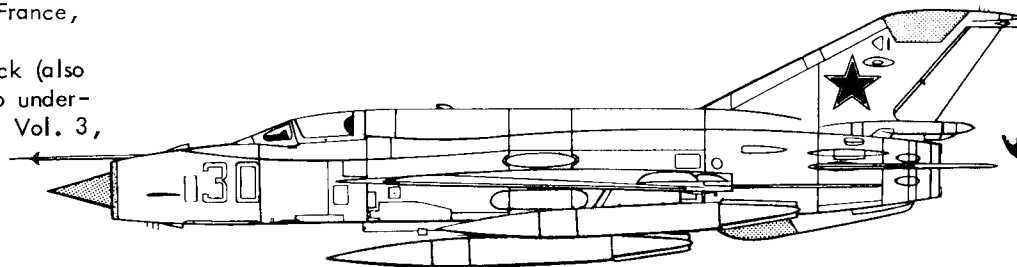
CZECHOSLOVAKIA (Fishbed-J)

Dark green shield: (left only)
Brown head, black outline
White/black eye
Black nose, white highlight
Yellow patch on nose/black dots
White teeth
Black mouth
Red tongue, white highlight
See text for other color details



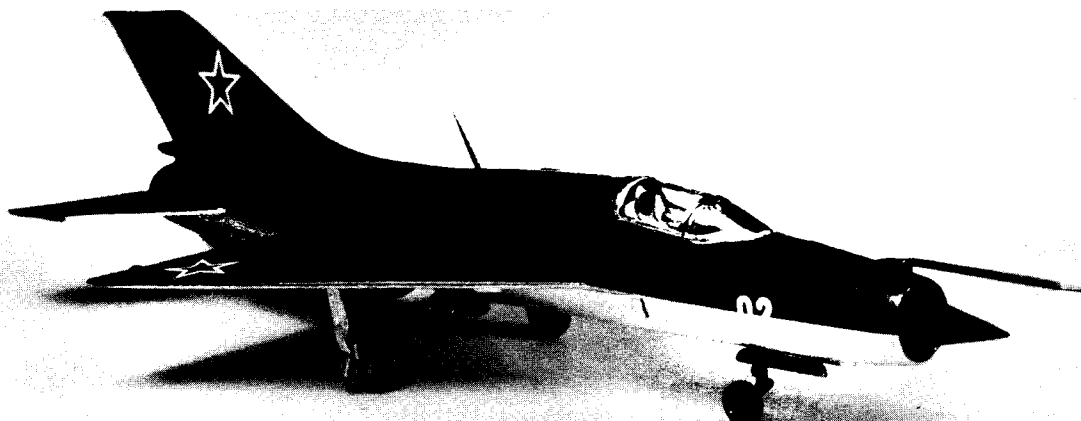
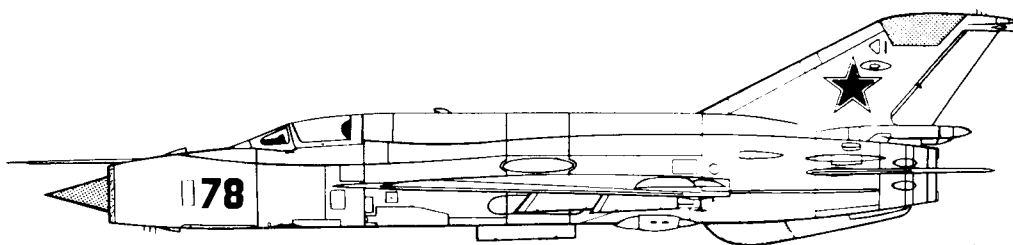
USSR (Fishbed-J, Visit to Rheims, France, Sept. 1971)

Baby-blue numbers, outlined black (also nos. "26", "28", and "32") (No underwing insignia) (See IPMS-Seattle Vol. 3, Nos. 1 & 2)



USSR (Fishbed-J)

Red numbers



Russian Aerobatic Team MIG-21 (Fishbed-J) In 1/72nd by Terry Moore; converted from the IMC (Fishbed-D) kit per John Beaman's Instructions.

IL-28 BEAGLE



TAMIYA 1/100TH ILYUSHIN IL-28 KIT REVIEW

Easily the better IL-28 kit. If you've shied away from 1/100th because of its small size, consider that the IL-28 in this scale is bigger than a Mitsubishi DINAH in 1/72nd and as big as a Kawasaki Ki-100 TONY III in 1/48th!

The faults of this kit are very minor - mostly in the decal sheet which is quite good. The tough problem with the decal sheet is that it gives white surrounds to the Chinese insignia instead of yellow. So, if you do the Chinese bird, you'll need to carefully correct that error by hand. The other decal error is corrected with your X-acto knife; the body code on the Finnish bird is "NH-1" not "NH-01", as given. Also, delete the guns if you do a Finnish bird. The target towing gear, as shown on Terry's sheet is optional; our references show it both on and off.

Speaking of references, the Finnish Air Force AIRCAM has a peculiar internal anomaly: A photo on the inside front cover shows NH-1, as shown here, whilst the color rendering on Plate H shows NH-1 with a red triangle slashed across the fin/rudder!

One kit detail must be questioned: The outboard fronts of the tip tanks have peculiar finlets, which I cannot confirm, so I'd recommend trimming the noses of these tanks into symmetry. The only molding flaws in my example were small, easily filled, sink holes in the tail cones of these tanks.

Of the kits reviewed for this issue, this is clearly one of

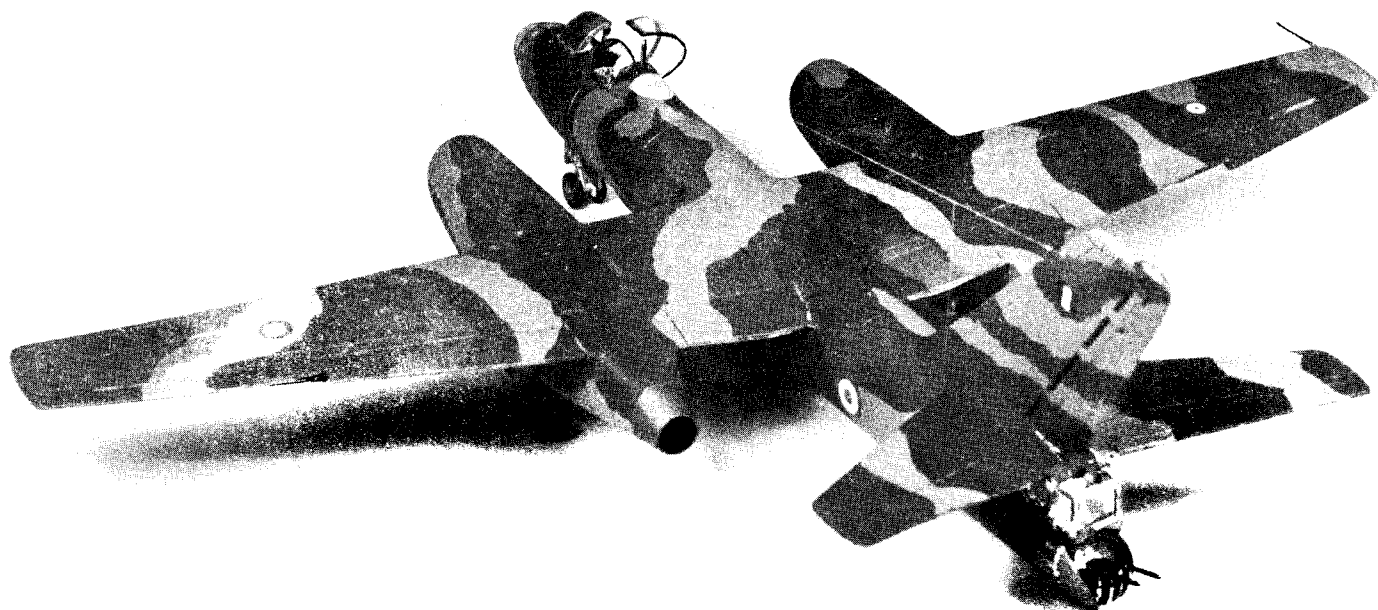
the best along with the Hasegawa MIG-17 and Tamiya MIG-15. I think two things would make it better: Three crew figures and a bilingual instruction sheet.

If you do the Rumanian ECM bird use the kits' separate radome as a male mold for Vac-u-forming another.

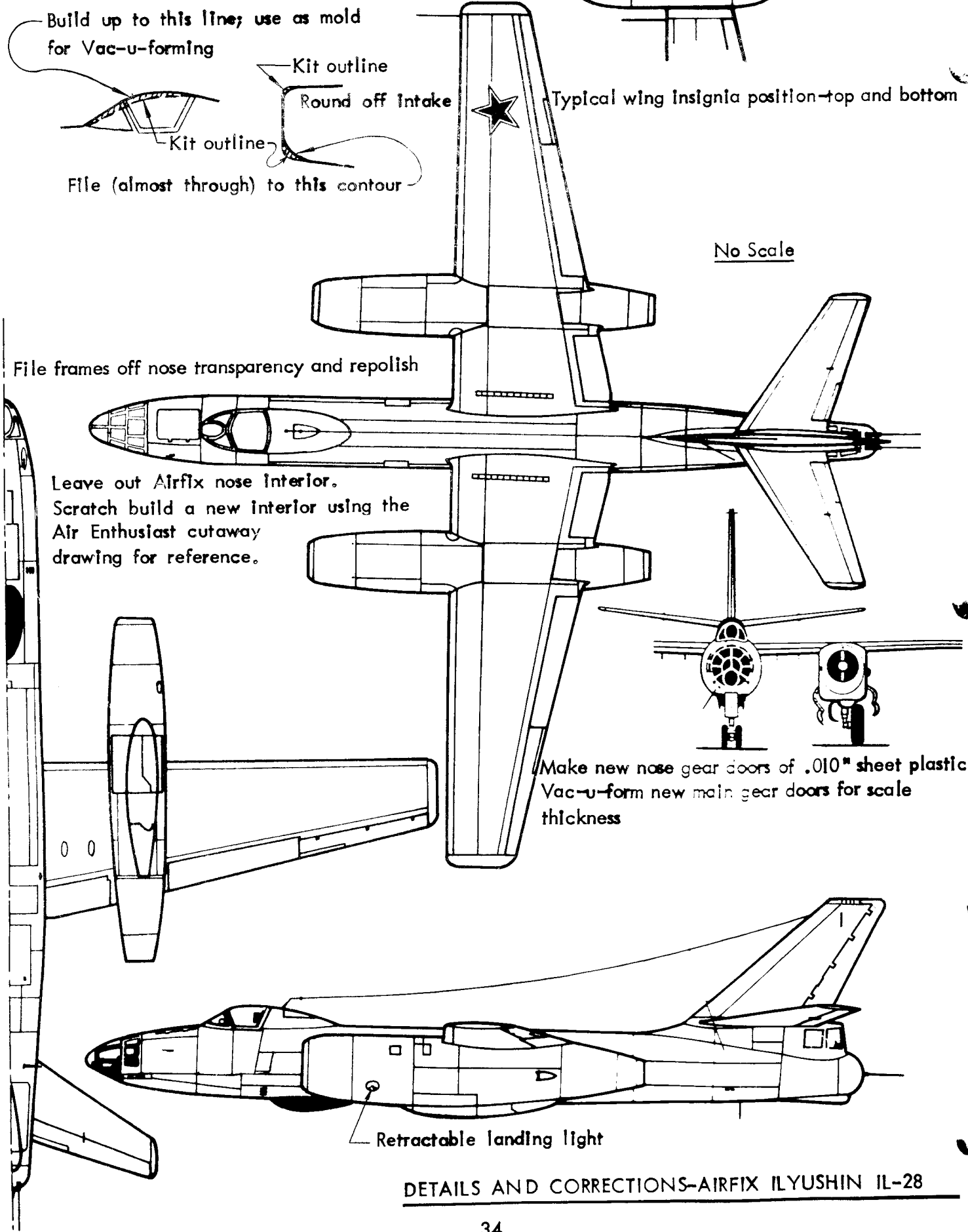
Another fault is also correctible with paint. Behind the 360° circumferential nose glazing, there is a band of windows from gun deck-to-gun deck over the top of the nose; behind this, on the right only, are two windows, one above the other. The kit has four windows here; paint out the top two. JJS

AIRFIX 1/72ND ILYUSHIN IL-28 KIT REVIEW

On balance this is a pretty fair kit which can be made up into a very attractive model as can be seen from the photo of Terry's Nigerian bird. As this is an older Airfix issue, the panel lines are raised rather high and should be carefully taken down, especially if you are going to do one of the overall natural metal schemes. The canopy correction can be tough, particularly if you don't have a Vac-u-form. An alternative would be to file the fairing behind the canopy a bit lower and then file down and repolish the rear of the injection molded canopy to match, and thus establish correct proportion at the cost of being slightly under size. The jet pipes, as given, have a wall thickness of about 6 scale inches - trim down to near scale thickness and insert a length of tubing forward from the jet pipe orifice to simulate the I.D. of the pipe. If you do the Rumanian ECM bird, make a second radome by taking a clay impression of the Airfix radome and use it to cast a plaster male mold, from which - after sanding - you can Vac-u-form a duplicate part. If you use the tip tanks, round out the rear per the drawings. The Czech and Polish markings on my decal sheet were very good, but the Chinese were badly off register, which is too bad because the dark green and blue Chinese scheme is very attractive. We've illustrated it here and it is also shown in the nicely detailed box art rendering. So, if you want a Chinese IL-28, you'll have to correct the decals by hand with a fine brush and yellow paint. TM & JJS



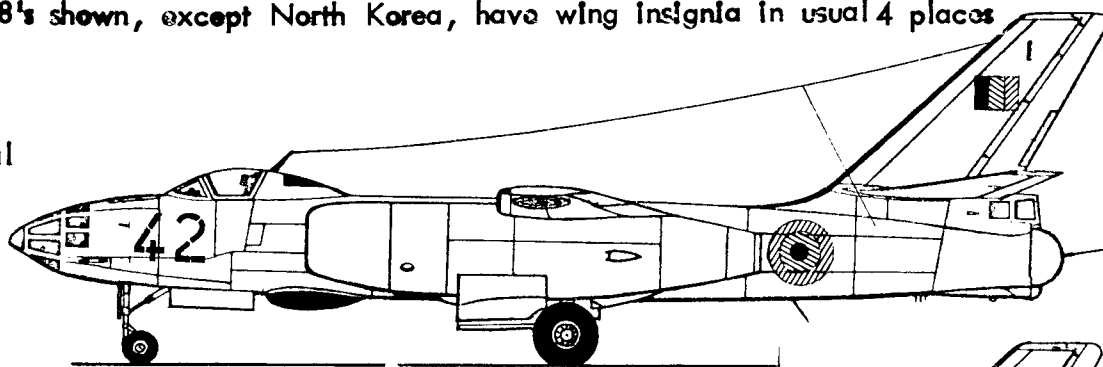
Nigerian Air Force IL-28 in 1/72nd by Terry Moore from the Airfix kit.



IL-28's All IL-28's shown, except North Korea, have wing insignia in usual 4 places

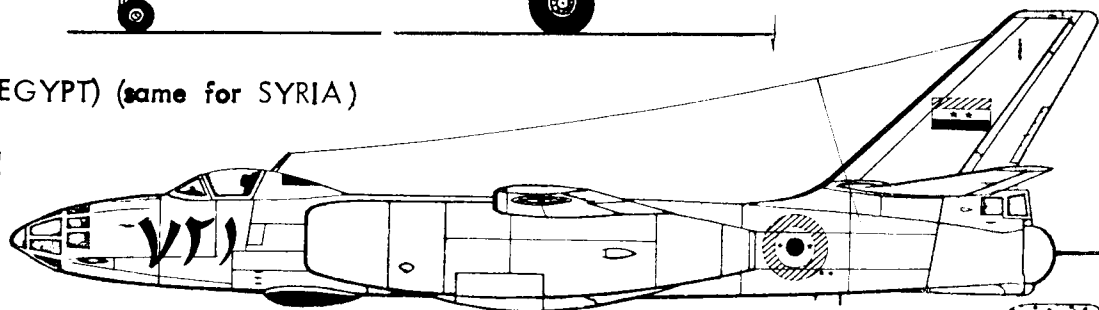
AFGHANISTAN

Black numbers
Overall natural metal



UNITED ARAB REPUBLIC (EGYPT) (same for SYRIA)

Black numbers
Overall natural metal



No Scale

NIGERIA

Random application of 3 greens and a grey: RAF WWII Dk. green, USAAF WWII Mid. Green, Pactra flat green F-5, and RLM grey



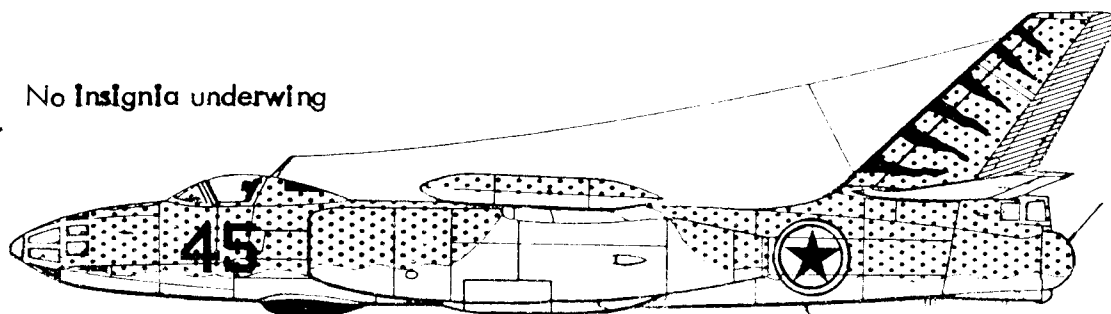
EGYPT (UAR)

Same scheme, UAR markings

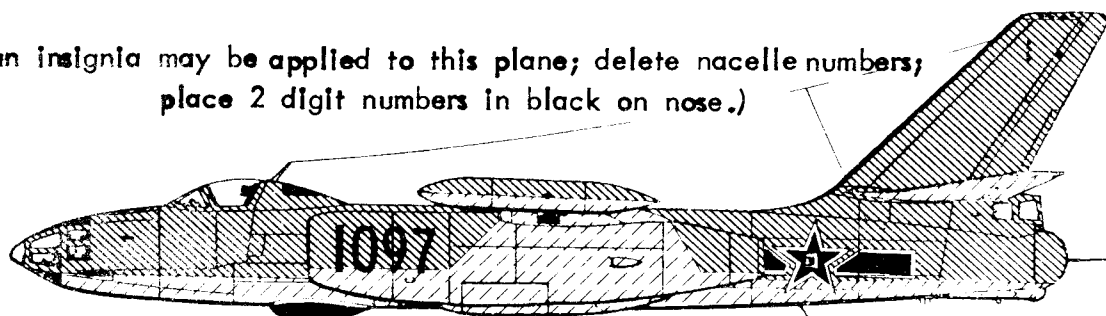
NORTH KOREA

Olive uppers
Natural metal under
Black numbers
Red rudder
White stripe on fin
Brown streaks on fin

No Insignia underwing

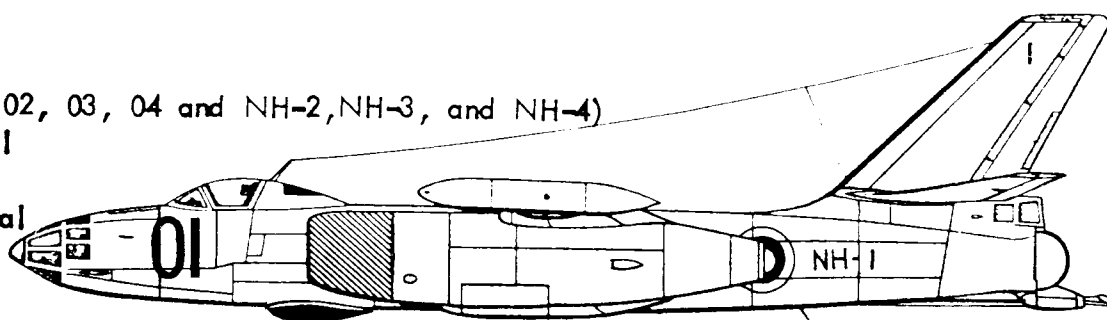


CHINA (North Korean insignia may be applied to this plane; delete nacelle numbers; place 2 digit numbers in black on nose.)
Dk. green uppers
Lt. blue under
White numbers



FINLAND (Target Tug)

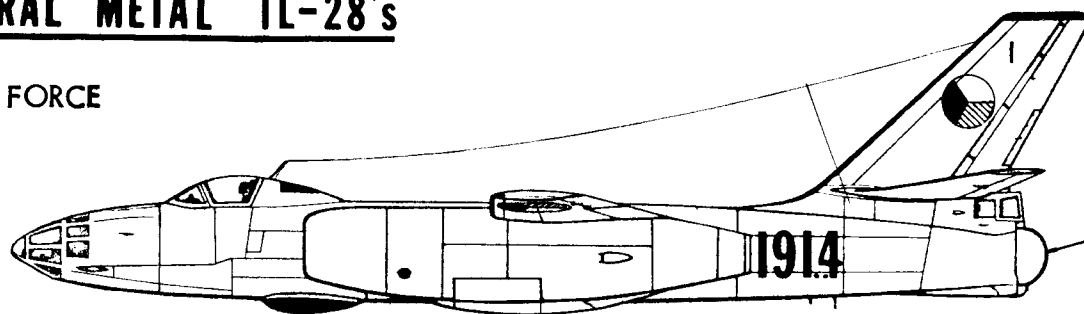
Red cowls
Black numbers (also 02, 03, 04 and NH-2, NH-3, and NH-4)
Towing gear optional
Delete all guns
Overall natural metal



OVERALL NATURAL METAL IL-28's

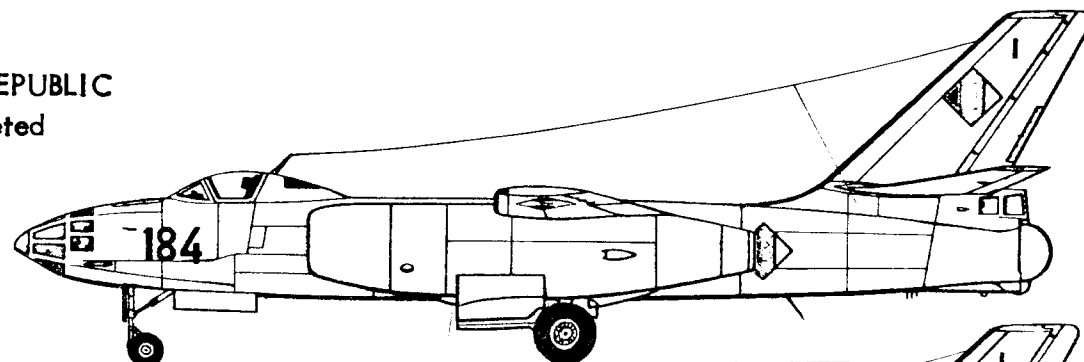
CZECHOSLOVAKIAN AIR FORCE

Black numbers
Red fin tip



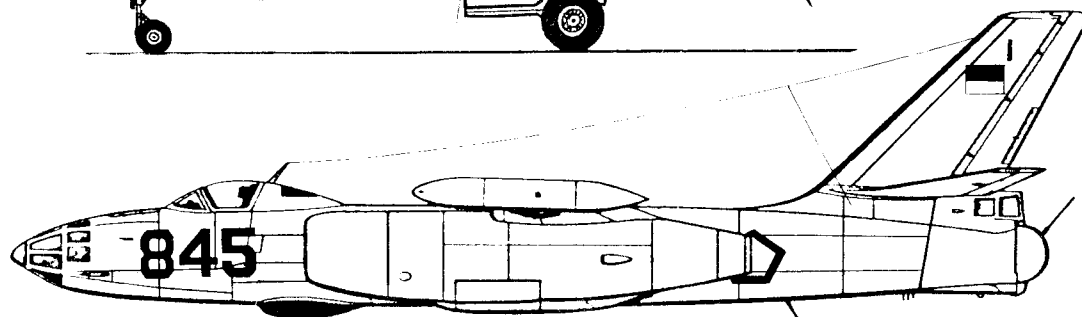
GERMAN DEMOCRATIC REPUBLIC

Guns and radome deleted
Black numbers



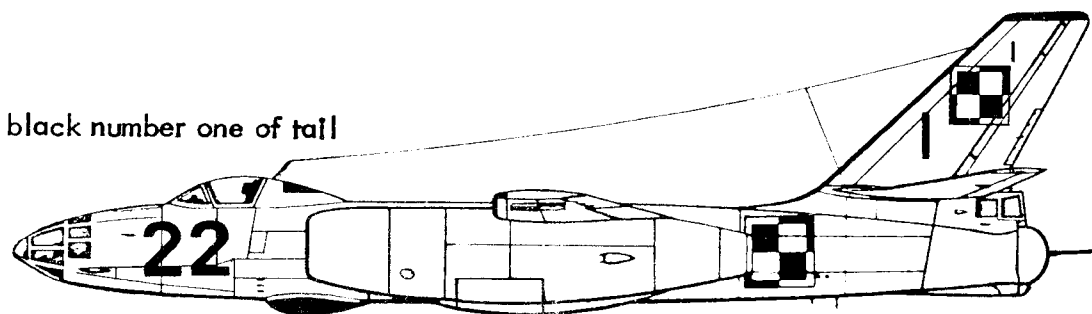
INDONESIAN AIR ARM

Black numbers



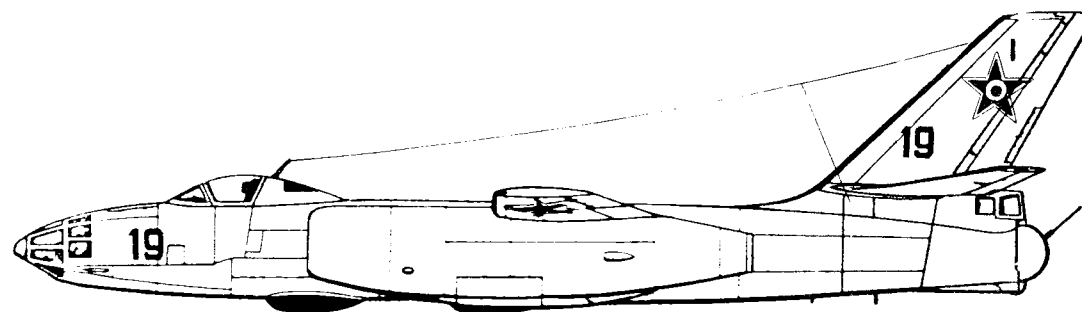
POLISH AIR FORCE

Red numbers on body; black number one of tail
Red fin tip



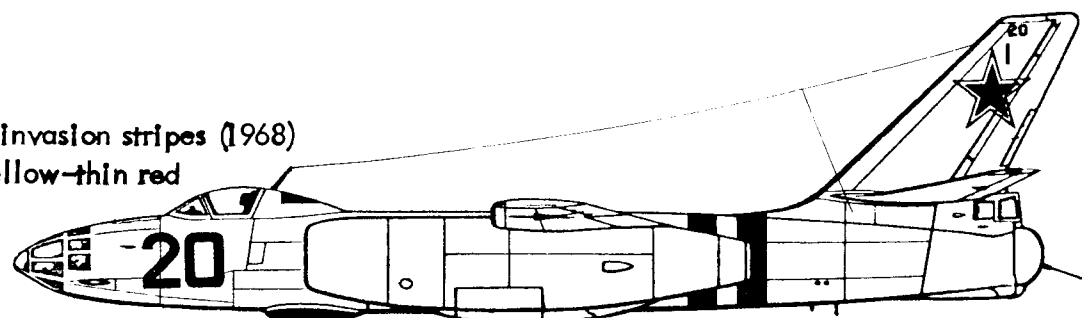
RUMANIAN AIR FORCE

Black numbers
Double radomes



USSR

Red Czechoslovakian invasion stripes (1968)
Red stars, outlined yellow-thin red border
Black numbers



OVERALL NATURAL METAL IL-28's cont.

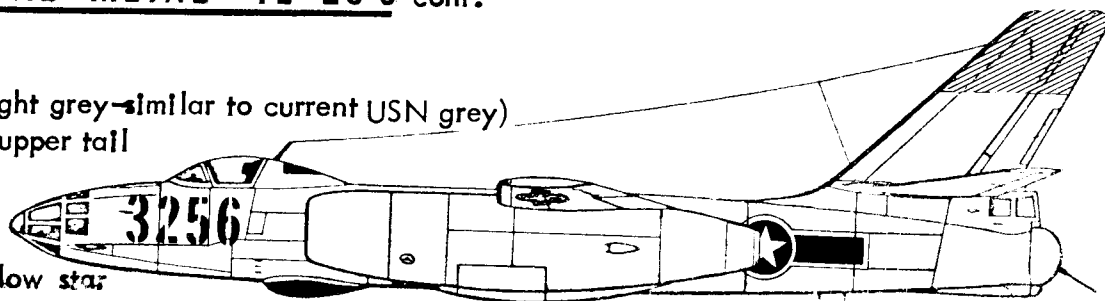
NORTH VIET NAM

(Also seen in overall light grey—similar to current USN grey)

Red, or medium blue, upper tail
Red numbers

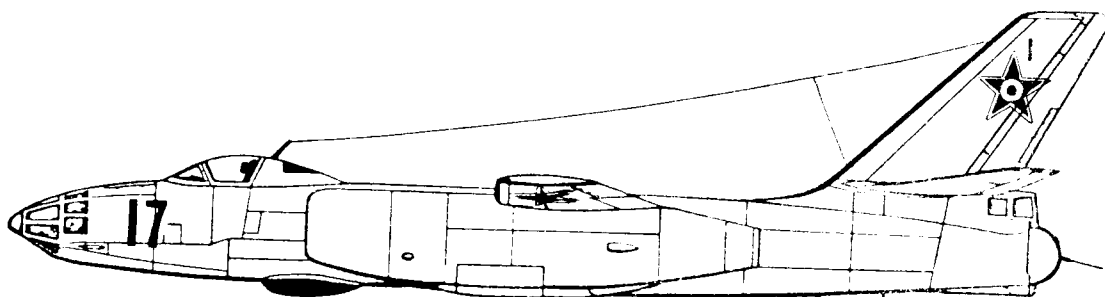
Optional:

old red outlined yellow star



HUNGARIAN AIR FORCE

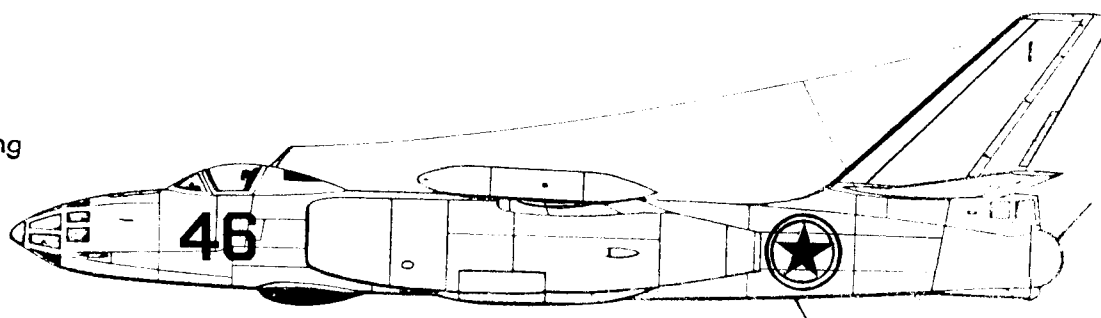
Black numbers



NORTH KOREA

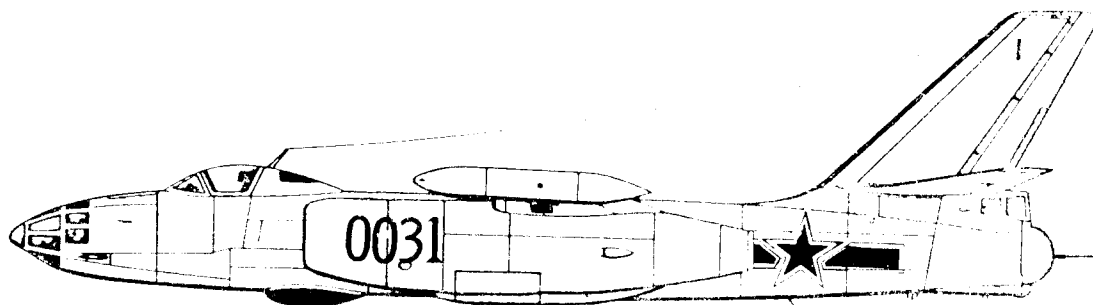
Black numbers

No insignia underwing



CHINA

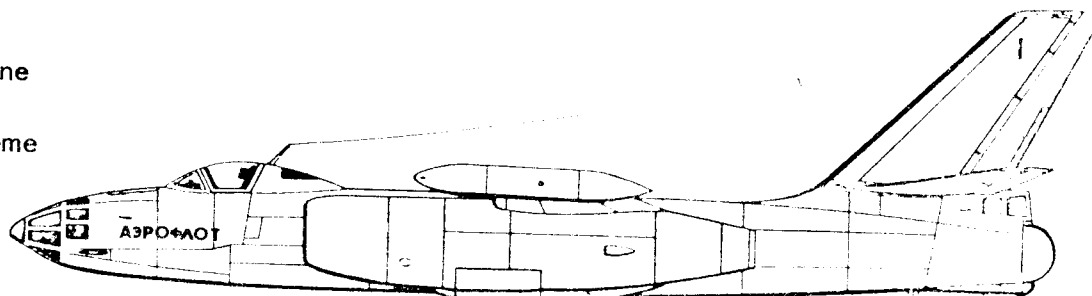
Red numbers



USSR—AEROFLOT Mailplane

Black name

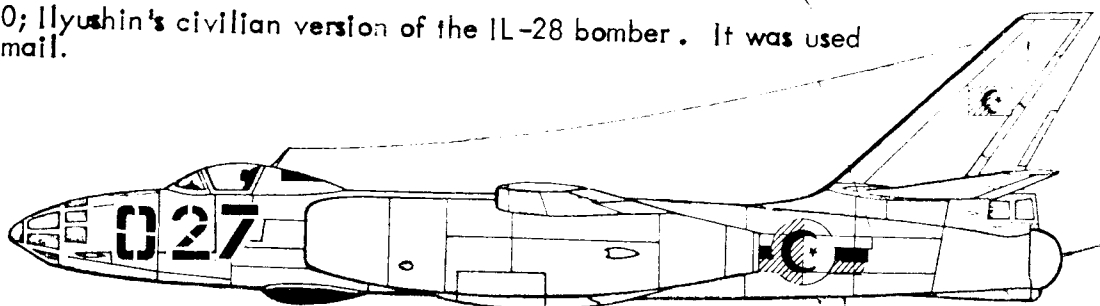
Delete guns and radome



This is actually an IL-20; Ilyushin's civilian version of the IL-28 bomber. It was used experimentally to haul mail.

ALGERIA

Black numbers



MARKINGS

Instructions

1. Find your nation on the left of the table.
2. Read across to the model and scale you're interested in.
3. Note the reference number.
4. Read the reference in the list following the table to find the decals to use.

NOTE: A blank under the model indicates, to the best of our knowledge, that model not used by that nation.

Contemporary Russian Jets
Table of Users

	MiG-15		MiG-17		MiG-19		MiG-21		IL-28	
	1/100	1/72	1/100	1/72	1/100	1/72	1/100	1/72	1/100	1/72
Afghanistan			31	31					31	31
Albania	2	2	2	2						
Algeria	2	3					2	2	2	3
Bulgaria	2	2	2	2			2	2		
Cambodia	4	4	4	4						
China (People's Republic)	6	8,9,10	6	8,9,10	6	8,9	6	11	7	12
Cuba	13	9,15	13	9,14	13	9,14	13	9,14		
Czechoslovakia	1	1	1	1	1	1	1	1	1	1
Finland	32	7,16					32	7,16	7	32
East Germany	10,13	9,10	10,13	9,10	10,13	9,10	10,13	9,10, 13	9,10	9
Egypt (pre-UAR)	22	19,22								
Guinea			2	2						
Hungary	17	17	17	17			17	17	17	17
India							2	10,14		
Indonesia	7	30	7	30	7	30	7	30	7	30
Iraq			18	3,18	18	3,18	18	3,18		
Nigeria	20	19	20	19					20	20
North Korea	21	21	21	21			21	21	21	10
Morocco	3	2	3	2						
Pakistan	22	22,23			22	22,23				
Poland	1	1	1	1	1	1	1	1	1	1
Rumania	24	24	24	24			24	24	24	24
Somali	2	2								
Syria	25	25	25	25			25	25		
Uganda							2	33		
USSR	1	1	1	1	1	1	1	1	1	1
United Arab Republic (Egypt)	26	26	26	26	26	26	26	26	26	26
North Vietnam	29	27	28,29	27			28,29	27	27,29	27
Yugoslavia							5	5		
Yemen:	26	26								

NOTE: Israel and the U.S.A. have been excluded. 38

Reference Notes:

1. Too common to bear comment.
2. Not available.
3. ABT Sheet No. 42
4. Stoppel Sheet No. 29, old insignia. See "Description" for new insignia.
5. Stoppel Sheet No. 19
6. Tamiya MiG-15 kit
7. Tamiya IL-28 kit, (Chinese insignia - reworked as noted in kit review)
8. Hasegawa MiG-21 kit
9. Central MiG-19 kit
10. ESCI Sheet No. 82 for MiG-15 with legend on sides, also MiG-17
11. Use 8, or 9, for wings; 7 for body
12. Airfix IL-28 kit
13. Tamiya MiG-19 kit
14. ABT Sheet No. 41
15. Stoppel Sheet No. 30
16. Use black cat from Airfix MiG-21 kit, and roundels from ref. 7.
17. Paint green over central blue dot on Rumanian stars on Stoppel Sheet No. 18 to create Hungarian markings
18. Stoppel Sheet No. 20
19. Use ESCI Sheet No. 73, old style Egyptian
20. Use Pakistani roundels from Stoppel Sheet No. 21 with green dot added in center
21. ESCI Sheet No. 74
22. Stoppel Sheet 21
23. K.P. MiG-19 kit
24. Stoppel Sheet No. 18
25. Stoppel Sheet No. 20
26. Stoppel Sheet No. 17 (Paint out one star, for Yemen)
27. ESCI Sheet No. 72; old and new N.V.N. insignia
28. Tamiya MiG-21 kit
29. For old N.V.N. overpaint an appropriate size star, yellow with red outline
30. On plain white decal stock (i.e. Stoppel Sheet "B"), or equivalent lightly mark out a circle the size of your desired insignia. Divide the circle into 72° segments. Draw chord lines connecting the 72° division points on the circumference of the circle and you have a pentagon. Draw parallel lines on the inside to demark the thickness of the red surrounding the central field of white, and paint in the red. Trim out closely with a sharp blade and apply to model.
31. Use an old Egyptian (pre-UAR), or current Syrian roundel with green outer ring, and overpaint the inner ring red, and the central dot black.
32. If you've a steady hand these can be painted directly onto plain white decal stock (Stoppel Sheet "B") with a draftsman's ruling pen mounted in a compass, and filled with blue paint.
33. K.P. Delfin kit

Footnotes

- A. E.S.C.I.'s instruction sheets are screwed up beyond belief and should be totally disregarded. Their color register tends to be random, so examine the sheets closely before buying.
- B. Some Arabic Numbers as used by Arab nations will be found on E.S.C.I. Sheet No. 73 suitable for both 1/100 and 1/72 and on ABT Sheet No. 42 suitable for 1/72. These numbers are however very easy to do with pen and ink. Refer to your Encyclopaedia Britannica, or equivalent, for guidance.
- C. Unfortunately, it appears the "old" ABT and Stoppel Sheets are no longer being imported by their U.S. distributors. This is a shame for those are very nice decals indeed.
- D. We've shown a full rundown for MiG-17's in 1/100 even though there's no kit, because some enterprising soul will surely lengthen the body of a Tamiya 1/100 MiG-15, and scratch-build new wings from sheet plastic to create a MiG-17 (Fresco-A) in this scale.

Descriptions: (See airplane profiles herein for illustrations)

Afghanistan - Roundel, black dot, red ring, green ring

Algeria - Roundel with bars, roundel halved green/white, red star and crescent thereon, bars (top to bottom) white, red green

Cambodia - (Old) Roundel, white temple on red field, blue surround - (New) Roundel and bars, blue disk, red quarter, white temple/stars, white bars outlined blue, red

stripe in center of bars. Painted over USAF 15" and 18" insignia

China - Red star and bars individually outlined yellow, white truncated triangle in star's center

Cuba - Roundel of blue, red triangle thereon (point down/ aft), small white star in center

Czechoslovakia - Roundel, equally divided red, white, and blue, sometimes outlined black or blue, red forward

Descriptions: (Continued)

Finland - Roundel - white, blue, white

E. Germany - Diamond, vertically divided black, red, yellow; black transit, halo, and scroll in center (red) panel

Egypt (pre-UAR) - Roundel, green, white, green, 3 white stars and white crescent in central green dot

Hungary - Red star outlined yellow, white central circle, green dot thereon

India - Roundel, green dot, white ring, orange ring

Indonesia - White pentagon, outlined red

Iraq - Green triangle, outlined black, red/white figure in center

Nigeria - Roundel, green white green

North Korea - Roundel, red stars, red ring, blue ring on white field

Morocco - Red roundel, green outline, green crown and star outlined yellow on red field

Pakistan - Roundel, big white dot, green ring. Earlier had thin yellow outline, currently has no outline

Poland - Square, quartered red and white, each quarter bordered on outside with opposite color. Sometimes white border to red quarters has thin red outline

Rumania - Same as Hungary except central dot is blue

Syria - Roundel, black dot, white ring, green ring, 3 small red stars at 120° on white ring

USSR - Red star; details vary: a) Plain red star. b) bordered white. c) bordered yellow. d) bordered white, outlined red. e) bordered yellow, outlined red. f) bordered white, outlined black. We do not know the significance, if any, of the variations.

UAR (Egypt) - Roundel, black dot, white ring, red ring, 2 small green stars horizontally opposite on white ring

North Viet Nam (Old) - Yellow star, outlined red. (New) - Roundel and bars, yellow star on red roundel outlined yellow, flanked by red bars outlined yellow

Yugoslavia - Roundel, red star atop big white dot and blue ring

Uganda - Roundel, black dot with white cock's head thereon, red ring, yellow ring, black ring

Yemen - Roundel, same as Egypt (UAR) but only one star-at top

REFERENCES

a.) FLYING REVIEW INTERNATIONAL (Defunct)

1.	Vol. 19	No. 2	MiG-21, Plans (Russ, Finn)
2.	Vol. 19	No. 5	MiG-19, Plans (Russ, Czech)
3.	Vol. 19	No. 10	IL-28, Plans (Russ, Indonesian, Rumanian, Finn, E. Germ.)
4.	Vol. 19	No. 12	MiG-17, Plans (Russ, Pole, E. Germ.)
5.	Vol. 20	No. 9	MiG-15
6.	Vol. 21	No. 3	MiG-15 (UTI) Finn (in color) MiG-21 Finn (in color)
7.	Vol. 22	No. 3	MiG-21 Iraq
8.	Vol. 22	No. 8	MiG-19 UAR, Iraq
9.	Vol. 22	No. 15	MiG-17 Russ (in color)
10.	Vol. 23	No. 1	MiG-21 Russ
11.	Jan., 1969		MiG-15 UTI (Finn) IL-28 Finn MiG-21 Finn
12.	Feb., 1969		MiG-15 UTI (Pakistan) MiG-17 Pakistan
13.	Sept., 1969		MiG-17 Hungary (in color) MiG-21 Hungary
14.	Feb., 1970		MiG-15 UTI (Nigeria) MiG-17 Nigeria (in color) IL-28 Nigeria (in color)

b.) AIR ENTHUSIAST (Successor to FRI)

1.	June, 1971	MiG-15 Hungary MiG-21 Hungary, Czech.
2.	August, 1971	MiG-21, Plans (Russ, Czech, Pole)

References: (Continued)

3. Nov., 1971 IL-28 Russ, Pole, Finn, Indonesia, China
4. April, 1972 MiG-21 India Camouflage
5. Dec., 1972 MiG-15/17 Plans
- c.) THE WORLD'S FIGHTING PLANES, William Green, Doubleday
 - MiG-17, Plans; Russ Aerobatic, E. Germ., Iraq, Czech
 - MiG-19, Plans; Russ, Czech
 - MiG-21, Plans; Russ, Finn
 - IL-28, Plans; Russ, Finn, Rumania, E. Germ.
- d.) THE POCKET ENCYCLOPEDIA OF WORLD AIRCRAFT IN COLOR-FIGHTERS, Kenneth Munson, MacMillan
 - MiG-15 UTI Plans, Pole (in color)
 - MiG-17, Plans, Indonesia (in color)
 - MiG-19, Plans, Czech (in color)
 - MiG-21, Plans, India (in color)
- e.) THE OBSERVER'S WORLD AIRCRAFT DIRECTORY, William Green, Warne
 - MiG-15 UTI, Russ, Indonesia
 - MiG-15 Pole
 - MiG-17 China, Syria, Russ-Aerobatic
 - MiG-19 Russ
 - IL-20 (Civilian IL-28) Aeroflot
 - IL-28 China, Russ
- f.) SOVETSKA LETADLA, Vaclav Nemecek, Nase Vojsko, Prague
 - MiG-15 Russ, Czech
 - MiG-15 UTI Czech (Radar nose)
 - MiG-17 Russ, Czech
 - MiG-19 Czech
 - MiG-21 Russ, Czech
 - IL-28 Indonesia
- g.) AIRCRAFT CAMOUFLAGE AND MARKINGS 1907-1954, Bruce Robertson, Harleyford
 - MiG-15 China (Camouflaged)
 - MiG-15 UTI Czech
- h.) IPMS-UK MAGAZINE
 - Feb., 1971 MiG-15 China
 - IL-28 Russ (Czech Invasion)
 - April, 1967 MiG-15 Egypt, Czech-Aerobatic, Russ-Aerobatic, Pole, China (Camouflaged)
- i.) AIRCAM AVIATION SERIES, Osprey
 - Finnish Air Force
 - MiG-15 UTI
 - MiG-21
 - IL-28
 - Aerobatic Teams Vol. 1
 - MiG-15 Russ
 - Aerobatic Teams Vol. 2
 - MiG-15 Czech
 - MiG-19 Russ
 - MiG-21 Russ
 - Czech Air Force

References: (Continued)

- j.) SKRZYDLATA POLSKA of March 26, 1972
MiG-17 Pole, Natural Metal and Camouflaged
- k.) IPMS-US QUARTERLY
6Q1 MiG-21 USSR, Egypt
7Q3 MiG-15 UTI Pakistan, Finland
- l.) THE ISRAELI AIR FORCE, Moshe Hadar/Maj. Yehuda Ofer, Israeli Ministry of Defense Publishing House
MiG-15 Egypt (pre UAR)
MiG-19 Iraq
MiG-21 Egypt (UAR)
Israel (Captured)
IL-28 Egypt (UAR)
- m.) AIRCRAFT PROFILE 238 MIKOYAN MIG-21 (FISHBED) VARIANTS, John F. Brindley, Profile Publications, Ltd.
MiG-21 Fishbeds -C, -D, -E, -F, -J and Mongols -A, and -B
- n.) AIRFIX MAGAZINE
1. Jan., 1971 MiG-21 UTI (Mongol-A) Airmodel Conversion, Czech
2. Nov., 1972 MiG-21 Egypt
IL-28
- o.) KOKU-FAN MAGAZINE
1. Dec., 1972 MiG-17, Hasegawa Corrections, North Vietnam
- p.) MODEL ART MAGAZINE
1. Feb., 1972 MiG-15, Tamiya, N. Korea
2. Sept., 1972 MiG-17, Hasegawa Corrections, Conversions
- q.) IPMS - SEATTLE CHAPTER QUARTERLY NEWSLETTER VOL. 3, Nos. 1 and 2
MiG-21 (Fishbed-J) Russ
- r.) CONTRAILS (Newsletter of) MAJOR GEORGE E. PREDDY CHAPTER - IPMS VOL. 4, No. 1, March, 1972
MiG-21's, all plans, corrections, conversions - reprinted herein
- s.) KOKU-FAN, AIREVIEW, & OTHERS
Vic Seely, Brent McCullough and Norm Filer loaned vast files of unlogged clippings from diverse sources that cannot be positively identified.

AFTERWORD

This issue started out to be Vol. 3, #3, but the longer we worked on it the bigger it got. The result is the 44 page double issue you have in your hands. The reference material on Russian planes is not tidily pre-assembled like the material on German, British, U.S., Japanese and French planes. I was amazed at the errors in the references - mostly relating to mis-identification. This mainly occurred between MiG-15's and -17's, each frequently being identified as the other, and between the various marks of MiG-21.

Another impression lingering from this work is how poorly the builder in 1/72nd scale is served by the kit makers with regards to Russian airplanes. It would be great if Hasegawa would bring out a good MiG-21F (Fishbed-C) with a really comprehensive Tamiya - like decal sheet to replace their current worthless offering. Or maybe Airfix could fit updating of their MiG-15 and MiG-21 into their really good program of totally redoing old kits.

I asked at the beginning of this issue for correspondence and would like to restate that request. The intensive research we've just completed reveals how really inadequate our efforts had to be within the constraints of time (other responsibilities) and money (the financial disaster of the National Convention) imposed upon us. Please write and correct, or expand upon, what we've done here.

Also, do try Butyrate dope for natural metal as suggested on page 2, it really works and is fairly simple. It's a lot cheaper than other paints too.

Oh yes, additional copies of this issue will be postpaid via surface mail anywhere in the world for \$1.50 U.S. payable any old way that is convenient to you.

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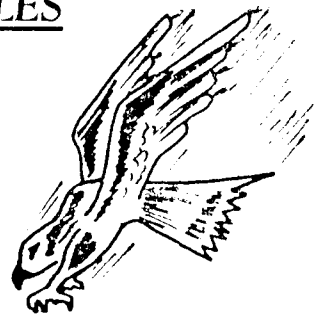
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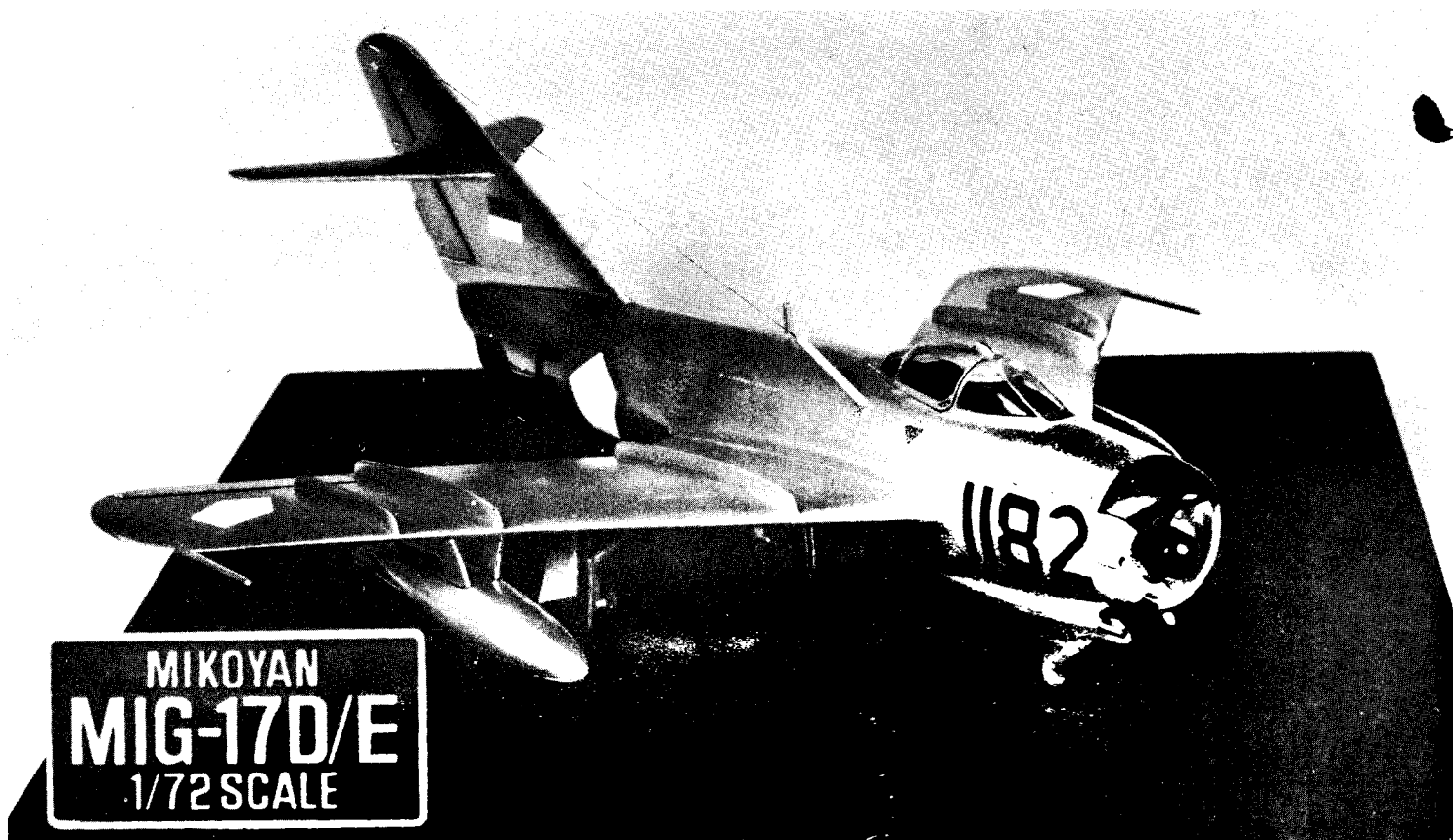
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Indonesian MIG-17 by Mike Quan from one of the pre-release Hasegawa kits given to those attending the IPMS-US National Convention in Seattle this summer by Al Trindle of Minicraft.

A few copies of Vol. 2 Nos. 2, 3 and 4 are also still available at \$.50 each, and we still have some composite Volume 1 reprints at \$1.25; all postpaid.

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