

**Photos
compiled by
Dariusz Karnas**

**EXTRA
MATERIAL**

Single No. 38 Mikoyan Gurevich MiG-21MF



MiG-21MF Details

photos compiled by
Dariusz Karnas



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “8910” s/n 968910 of 10th Aviation Regiment, during taking off from highway.
(Wacław Hołyś).



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “6715” s/n 966715, during taxiing. Dummy missile on outer pylon.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “8015” s/n 968015, during taxiing.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “9114” s/n 9114 grey overall. Aircraft of 41st Aviation Regiment taking off.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “7906” s/n 967906 of 41st Aviation Regiment on an apron.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “9107” s/n 969107 of 10th Aviation Regiment in special gold camouflage to mark the unit’s 55th anniversary on an apron. (Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “6804” s/n 96804 of 10th Aviation Regiment in two tone grey camouflage on an apron.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “6804” of 10th Aviation Regiment in two tone grey camouflage on an apron. (Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “ 9011 “ s/n 96 9011 of 10th Aviation Regiment during landing on a highway. (Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “9107” s/n 969107 of 3rd Aviation Regiment in special markings to celebrate the unit’s 45th anniversary (Marek Idzior)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “8015” s/n 968015, during taxiing.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “9107” s/n 969107 of 10th Aviation Regiment during taking off.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “7600” of 34th Aviation Regiment on an apron.
(Wacław Hołyś)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “6715” s/n 96715, 10th Aviation Regiment in grey/grey camouflage on an apron.
(Leszek Jóźwik)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “6715” s/n 96715, 10th Aviation Regiment in grey/grey camouflage on an apron. Front airbrakes in open position. (Leszek Jóźwik)



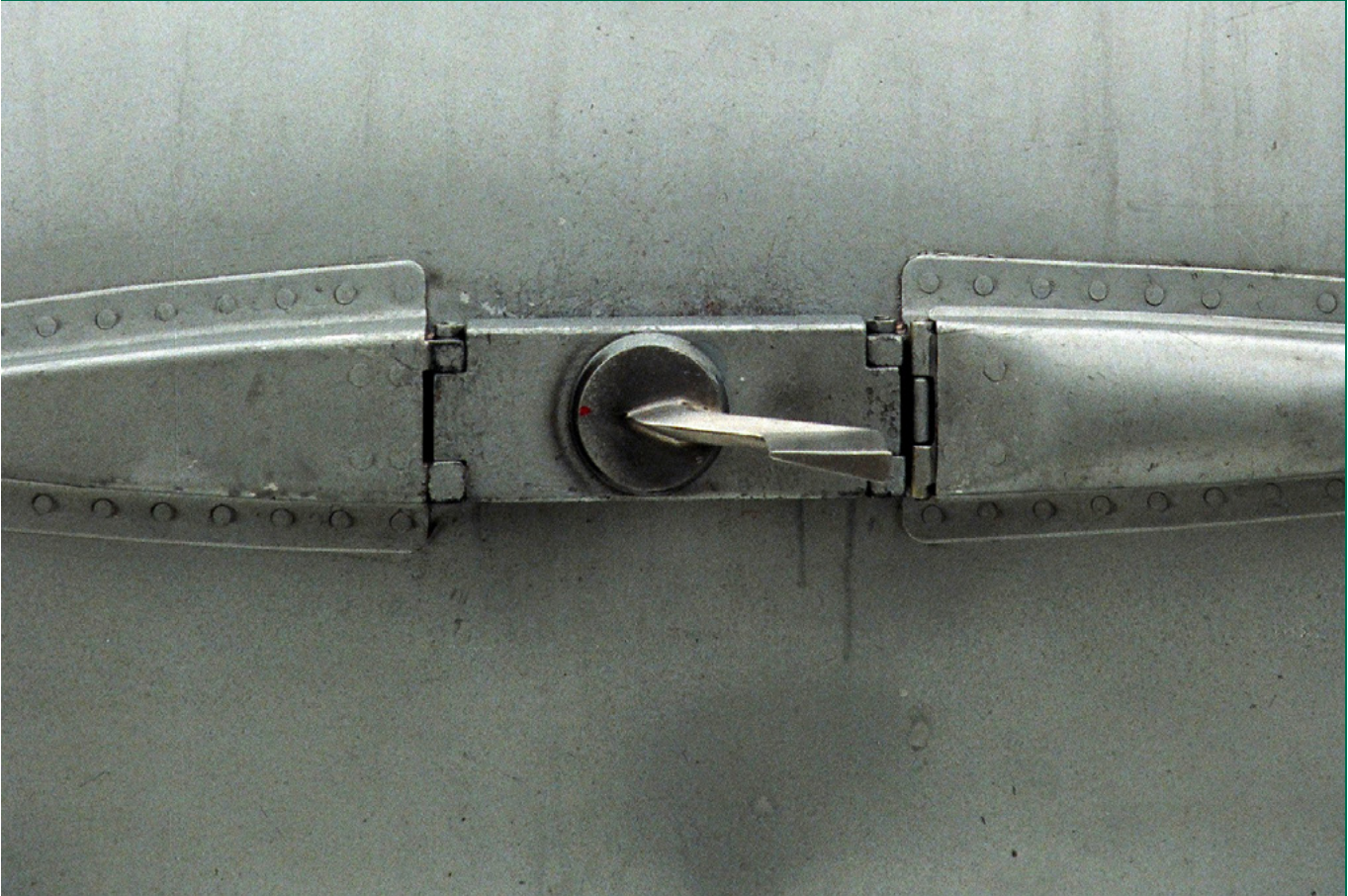
GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front fuselage and angle of attack sensor.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Close up photo of the angle of attack sensor.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Air data boom with Pitot tube and pitch and yaw vanes.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Air data boom with Pitot tube and pitch and yaw vanes. Auxiliary dynamic pressure probe is also visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Different kinds of air data boom on different types of “twenty one”.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front of fuselage, starboard side. Air brakes (both sides) in open position.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front of fuselage. Inside structure is visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Central fuselage with skin removed. UB-16 rockets pod on inboard pylon. Central external fuel tank 490 l. Capacity is also visible. (Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Fin spar and rib structure. RAU-107 autopilot servo, emergency hydraulic pump and flight recorder SARPP-12G (orange colour box) are visible. (Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

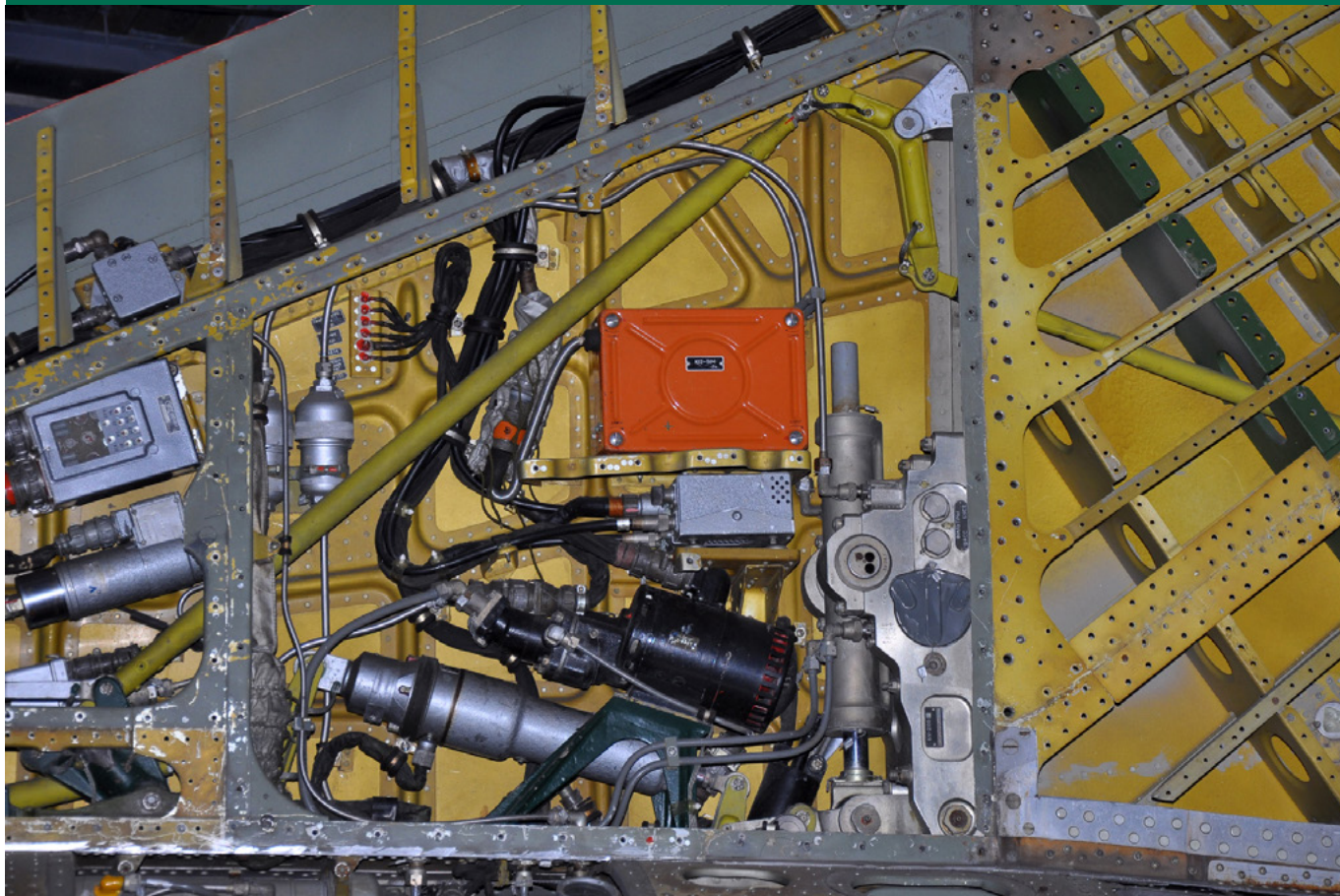
CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Fin spar and rib structure. RAU-107 autopilot servo, emergency hydraulic pump, flight recorder SARPP-12G (orange colour box) and fuel ducts are good visible. (Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

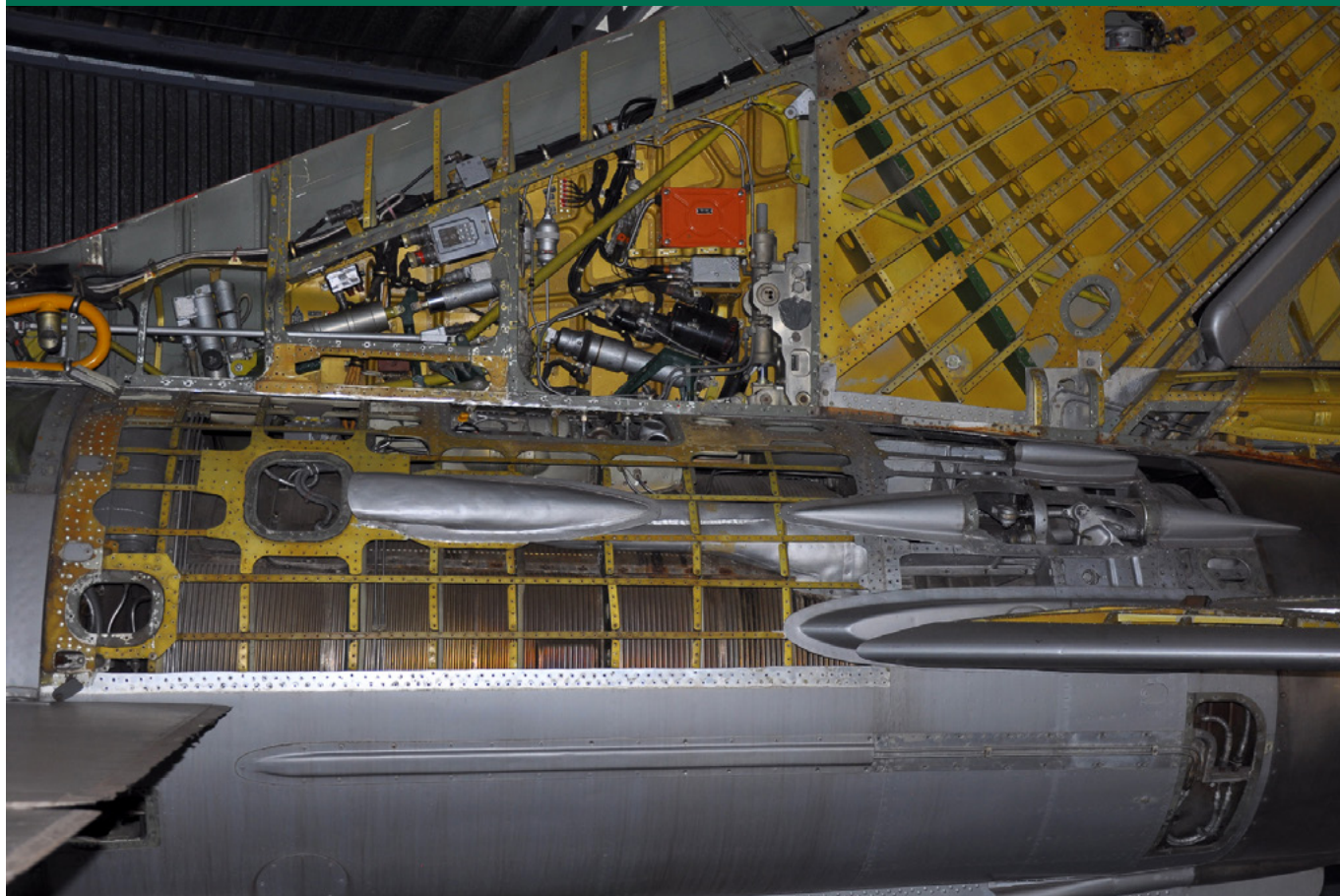
CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Rear fuselage structure. (Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Rear fuselage. Fuel ducts are visible.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Fin - internal structure.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Fin - internal structure.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Rear fuselage.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front of fuselage, underside. Nose wheel doors and IFF antennas are visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Mid part of fuselage. Nose wheel debris deflectors are visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Rear fuselage details.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front air brakes (both sides) in open position.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

External 28,5 V DC and 115 V AC power connectors. Air brakes and GSch-23 cannon are also visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front fuselage and canopy. Rear view periscope mirror is also visible.
(Dariusz Karnas)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Front of fuselage and canopy.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Front view of the MiG-21MF.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Front fuselage section without engine. Rear air brake in open position. An actuator is disconnected.
(Dariusz Karnas archive)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Rear fuselage details. All moving tailplane linkage fairing is visible.
(Dariusz Karnas archive)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

MiG-21MF “6715” s/n 96715, 10th Aviation Regiment in grey/grey camouflage on an apron. Canopy hinged to starboard is visible. Front, and rear airbrakes in open position. (Leszek Jóźwik)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

R-13-300 afterburning turbojet engine.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

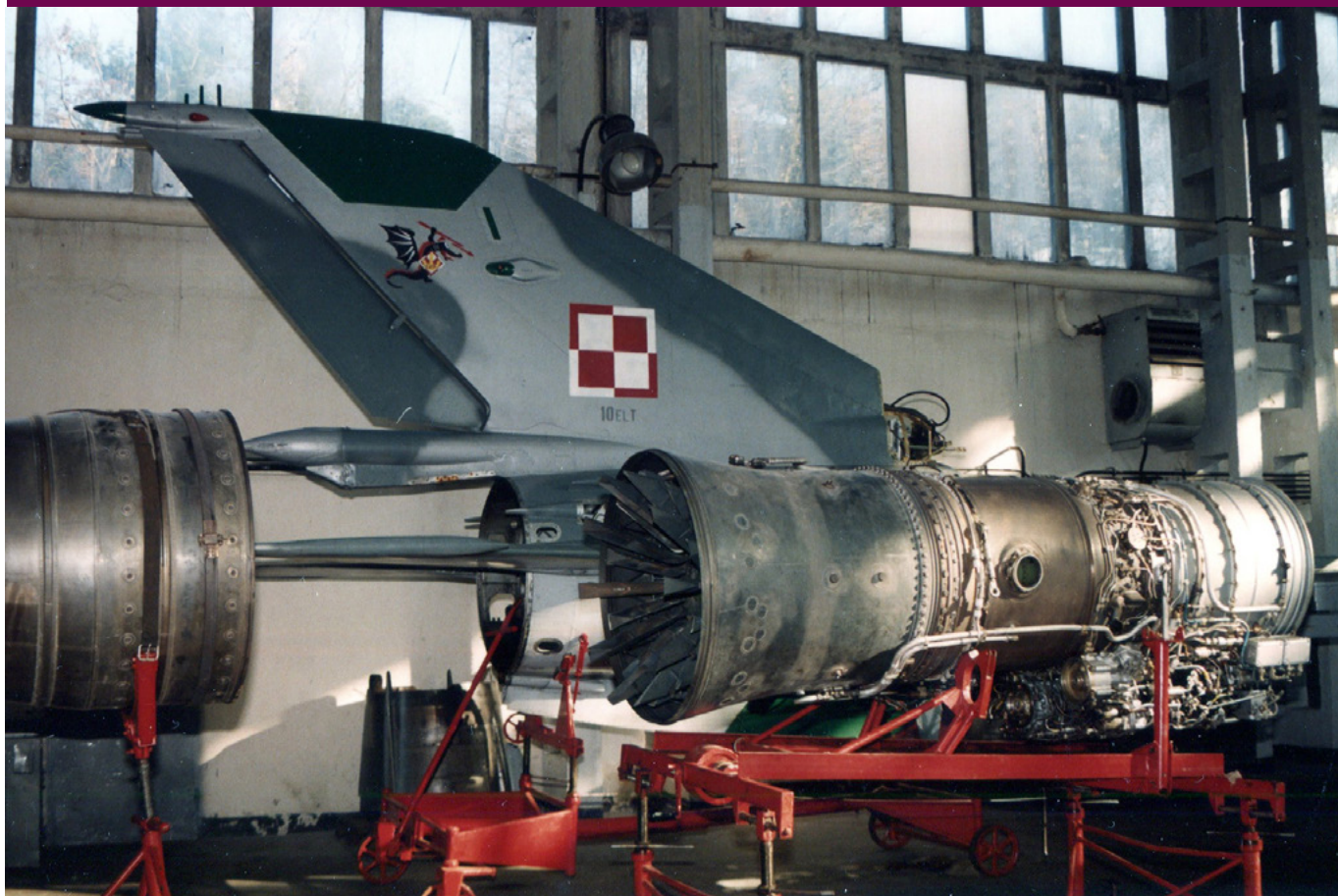
CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Dismantled engine on a service trolley.
(Dariusz Karnas archive)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Engine exhaust nozzle.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Engine exhaust nozzle and afterburner bay.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Dismantled rear part of fuselage. Engine at testing point.
(Leszek Jóźwik)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Dismantled rear part of fuselage. Engine at testing point.
(Leszek Jóźwik)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

SPRD assisted take-off rocket.
(Dariusz Karnas archive)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

SPRD assisted take-off rocket.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Underside of the MiG-21MF wings.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

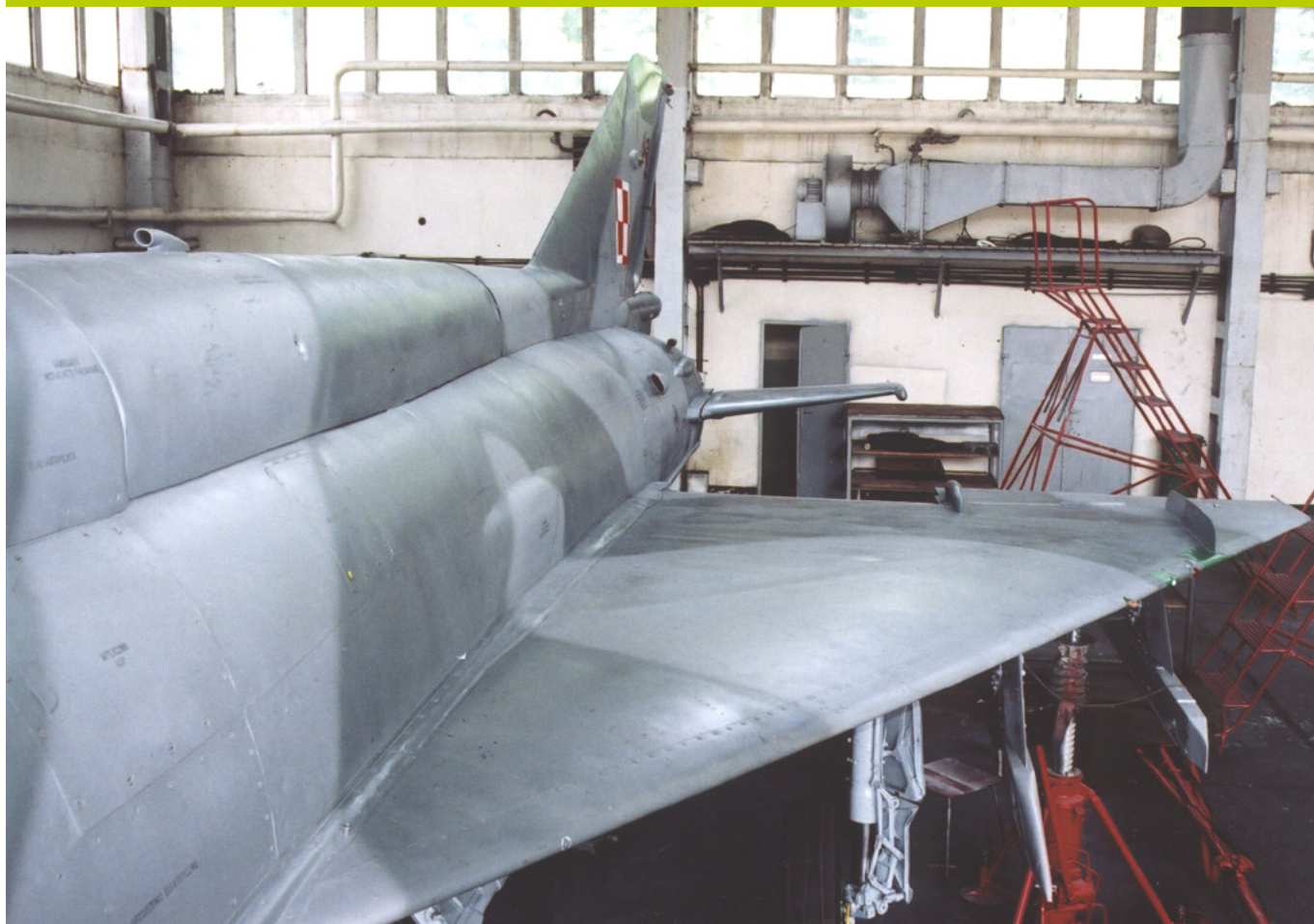
CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Port wing. Aileron hinge control linkage fairing and wing fence are visible.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Starboard wing. Inner APU-7 and outer APU-13 missile launchers are visible.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Starboard wing. Aileron hinge control linkage fairing and wing fence are visible.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Port wing. The static discharger is visible on wing tip.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Flaps hinge control linkage.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Main landing gear bay. Blue cylinders of the oxygen installation. Landing light is visible.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Horizontal stabilizers and rear fuselage details. Exhaust nozzle fairing is visible.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Vertical stabilizer. On his top it's IFF antenna, VHF/UHF R-802W dielectric fairing and MRP-56 system antenna. All moving tailplane linkage fairing and brake parachute housing is visible. (Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Engine exhaust nozzle and split conical fairing parachute doors in open position.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Port all-moving horizontal tailplane with anti-flutter weight and vertical stabiliser details.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Rear fuselage and tailplane section.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Horizontal stabilizers and rear fuselage details. Exhaust nozzle fairing is visible.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Starboard all-moving horizontal tailplane with anti-flutter weight.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Starboard all-moving horizontal tailplane with anti-flutter weight.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Split conical fairing parachute doors.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Canopy. Rear view periscope mirror is also visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Canopy hinged to starboard. Rear view periscope mirror is visible. Commander of the 10th Aviation Regiment in Łask mjr Dariusz Pacek sitting in the cockpit. (Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

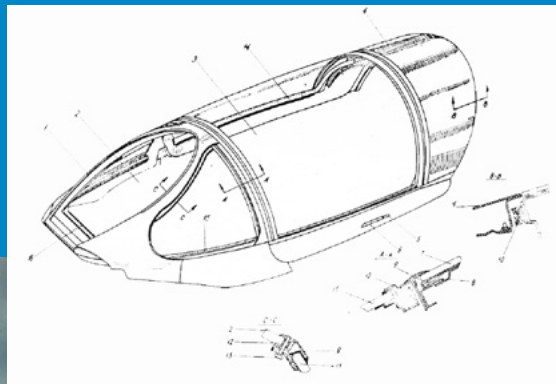
COCKPIT

UNDERCARRIAGE

ARMAMENT

Canopy hinged to starboard. Rear view periscope mirror is visible.

(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Front view at the open canopy.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Cockpit's details.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

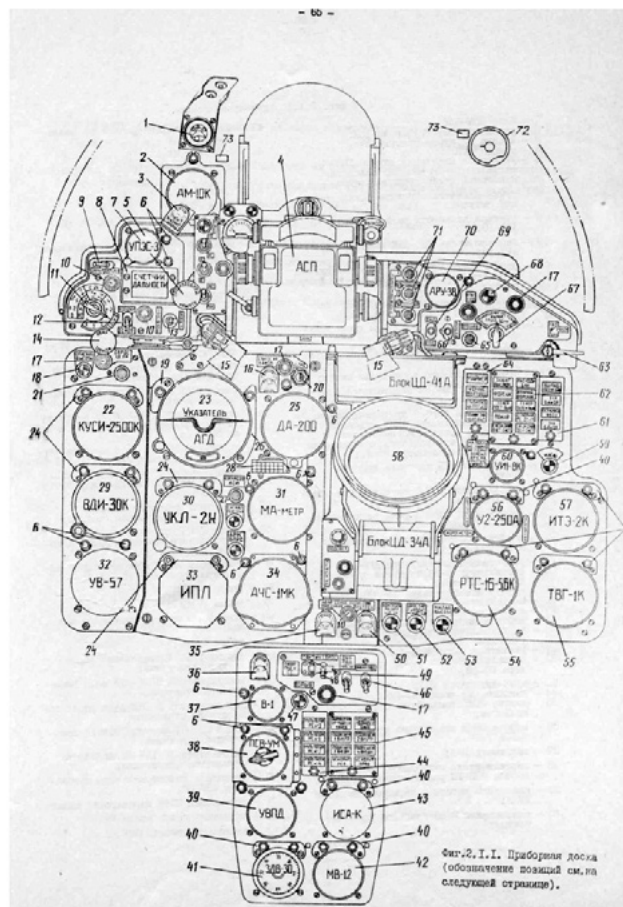
TAIL

CANOPY

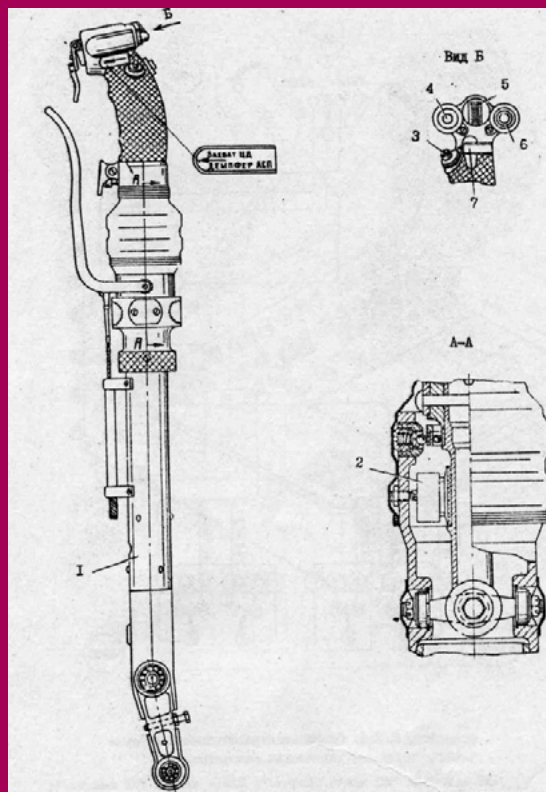
COCKPIT

UNDERCARRIAGE

ARMAMENT



Instrument panel and control column.
(Technical Manual)



Фиг. 2.3.4. Ручка управления самолетом.

1 — ручка управления самолетом; 2 — микровыключатель МВ-1;
3 — кнопка "Захват"; 4 — кнопка "АП выключ."; 5 — переключатель ПК-4 "Трим. эффект"; 6 — кнопка "АП выключ. привод."; 7 — кнопка "РС, СС, Б".

GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

ASP- sight (below).
Starboard and portside sides of the cockpit
(right).
(Technical Manual)

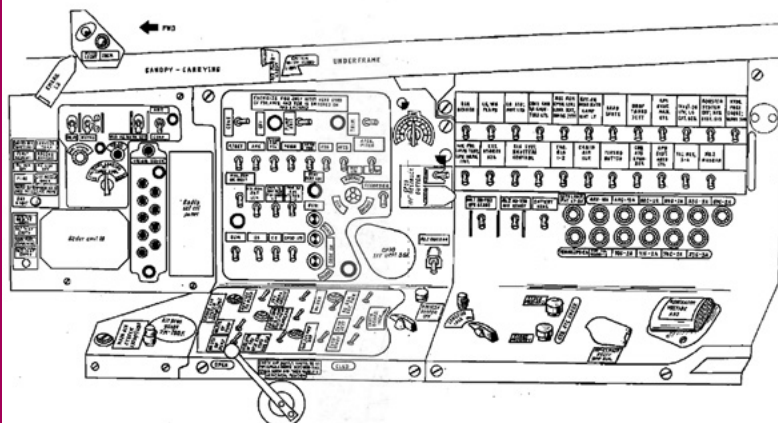


FIG. 24. STARBOARD COCKPIT

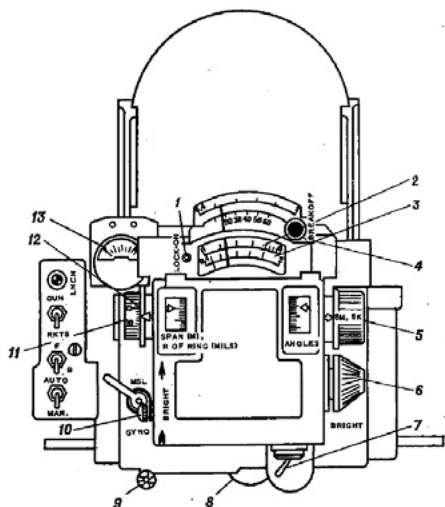


FIG. 23. LAYOUT OF SWITCHES, KNOBS, SCALES AND PILOT LAMPS ON SIGHT ACT-THRU HEAD

1 - target radar lock-in indicator; 2 - range scale for missile launching; 3 - range scale for rocket launching and gun firing; 4 - BREAK-OFF warning light; 5 - firing angular correction setting knob; 6 - movable reticle dimmer knob; 7 - movable reticle illumination filament selector switch; 8 - fixed reticle illumination fixture; 9 - fixed reticle dimmer knob; 10 - sight head scales dimmer knob; 11 - target span (or reticle ring radius) setting knob; 12 - target span additional scale (for "GUN, 300 m" mode); 13 - launch permissible range (crossover) indicator

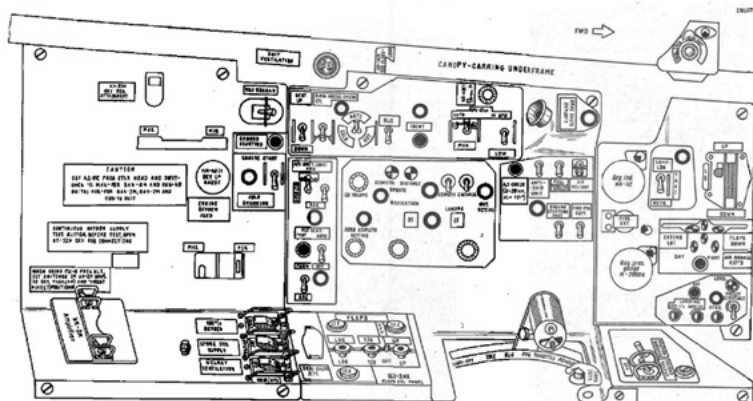


FIG. 25. PORT COCKPIT

**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

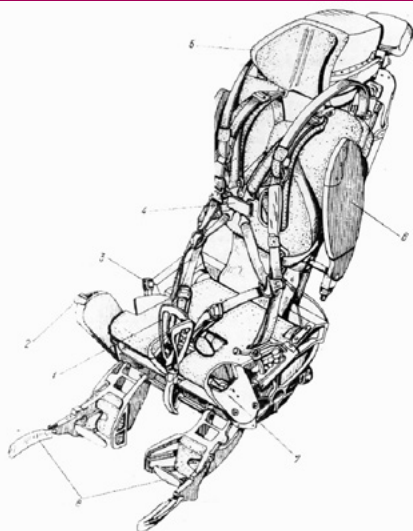
CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

The KM-1 ejection seat (below).
(Technical Manual) and photo of ejection seat.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

The KM-1 ejection seat.
(Dariusz Karnas archive)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Main wheel leg and rear air brake in open position.
(Dariusz Karnas)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT



Cockpits details.
(Piotr Strzelecki)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

ASP sight.
(Piotr Strzelecki)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Cockpits details.
(Piotr Strzelecki)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

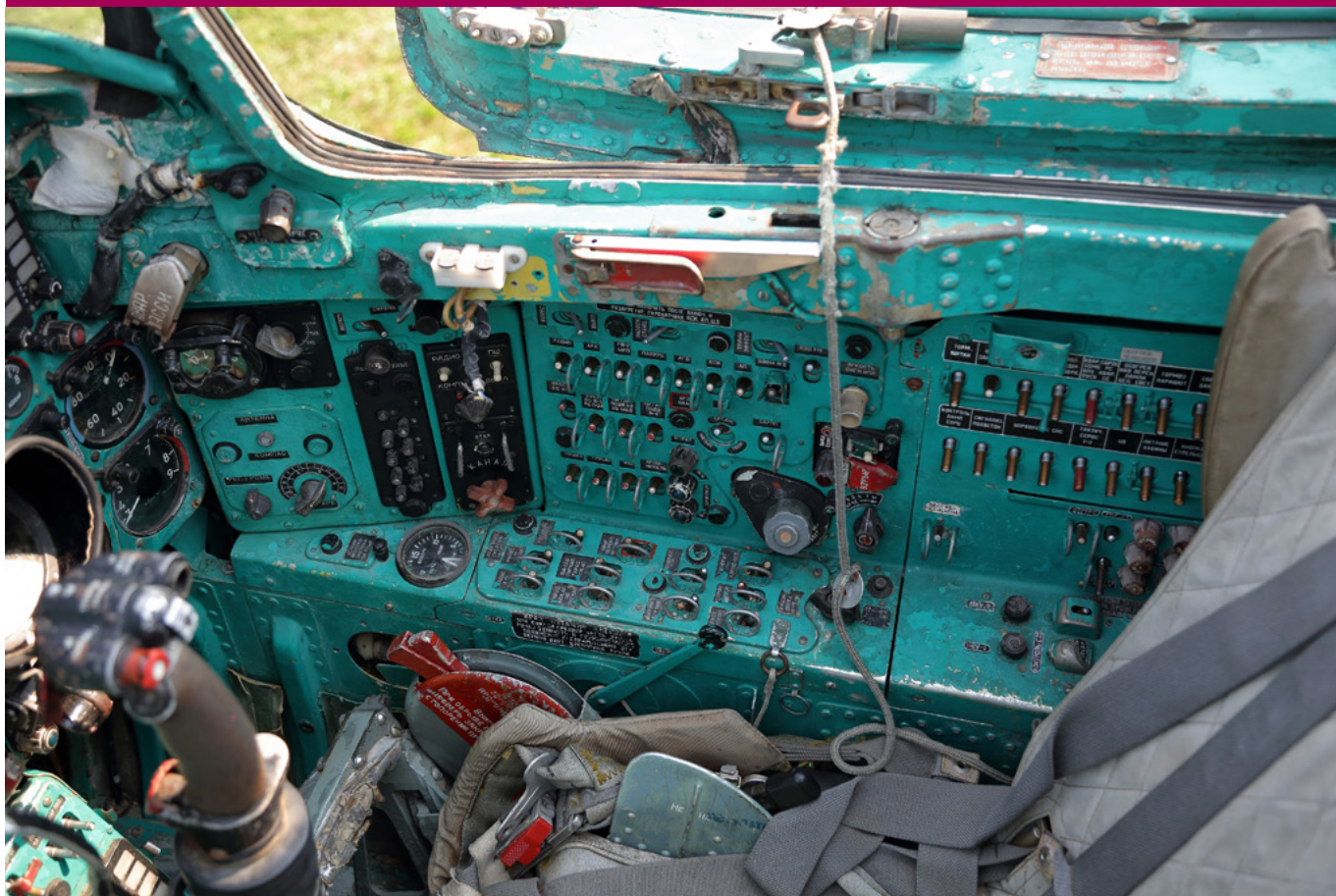
CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Starboard side of the cockpit.
(Piotr Strzelecki)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Port side of the cockpit. Engine throttle lever is visible.
(Piotr Strzelecki)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Mid part of fuselage. Main wheel well with door is also visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Main wheel legs and wing pylon with launch rail.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Main wheel leg. Main wheel doors and wheel bay details.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Starboard main gear bay. Rear air brake in open position is visible.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Port main gear bay. Rear air brake in open position is visible.
(Dariusz Karnas)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Port main gear bay.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Front gear.
(Dariusz Karnas archive)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Nose wheel fork.
(Dariusz Karnas)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

R-3S IR missile on outboard pylon.
(Leszek Jóźwik)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Transport trolley carrying air to air R-3S missile.
(Leszek Jóźwik)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

UB-16 unguided missile launcher pod.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Rockets pods. UB-32 on inboard pylon and UB-16 on outboard pylon.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Rockets pods. UB-32 on inboard pylon and UB-16 on outboard pylon.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Training concrete bomb on under wing pylon.
(Dariusz Karnas)



GENERAL VIEW	FUSELAGE	ENGINE	WING	TAIL	CANOPY
COCKPIT	UNDERCARRIAGE	ARMAMENT			

Training bomb on under wing pylon.
(Dariusz Karnas)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

R-60 dummy missile.
(Dariusz Karnas)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

R-3S dummy missile on outer APU-13 missile launcher.
(Dariusz Karnas)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

R-3S air to air missile (left) and R-3S dummy missile.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Air to air RS-2US missile.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Air to air RS-2US missile on APU-7 launch rail.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Air to air RS-2US missile details.
(Dariusz Karnas archive)



**GENERAL
VIEW**

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

Air to air RS-2US missile on APU-7 launch rail.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

GSh-23 cannon ammunition loading hatch.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

GSh-23 cannon housing fairing.
(Dariusz Karnas archive)



GENERAL
VIEW

FUSELAGE

ENGINE

WING

TAIL

CANOPY

COCKPIT

UNDERCARRIAGE

ARMAMENT

GSh-23 cannon gas vents.
(Dariusz Karnas)

