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MIG-17/Phy	sical Characteristics	20 June 1957					
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the follows	a sketch of the MIG-17 (from points:	nt, side and top views)	showing				
	ing points:	nt, side and top views)	showing				
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C-O-N-F-I-D-E-N-T-I-A-L

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sliding it back on tracks. The entire cockpit area is pressurized by the use of rubber sealing tubes mounted on the non-moveable canopy section and the tracks of the rear eanopy section. To pressurize, the rear section is closed and locked in position. Air is forced into the rubber tubes by means of an air tank and motor-driven pump located in the fuselage section, which causes the tubes to expand, forming an air-tight seal.

Pt #7: Plastic Bump. It is located on the rear underside of the fuselage. The bump is approximately six inches in dismeter.

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unit / sie 7.

it has some connection with the Lokator

Pt \$17: Bive Flaps. The MIG-17 has dive flaps located on both the right and left rear sides of the fuselage. The flaps are 80-90cm long and 30-50cm wide and can be extended by the use of a telescoping rod. The flaps are wider where hinged and smaller at the rear.

25X1

Pt #28: Fuselage. like a large fat cigar with an overall length of approximately 10 meters. The cockpit is located on the top front portion just shead of the leading edge of the wings. The fuselage is all metal construction utilizing flush type riveting and in general has a clean smooth surface.

25X1

C. Empennage:

Pt #3: Vertical Stabilizer. The vertical stabilizer is slightly higher than the stabilizer of the MEG-15. It is sharply swept on the leading and trailing edges with the tip being rounded at the front side and straight 25X1 on the rear.

Pt #4: Rudder Trim Tab. The rudder has a trim tab that is 20-25cm long and five to six on wide. it is below the horizontal stabilizer.

25X1

- Pt #5. Rudder. The rudder is of all-metal construction and is approximately 70cm long and 30-40cm wide. The rudder does not extend to the fuselage line. Mechanics frequently push the aircraft from a point directly above the exhaust come.
- Pt #15: Elevator Trim Taba. The left and right elevators have trim tabs made of metal and are 20-25cm long and five to six cm wide.
- Pt #16: Elevator. It is about the same as the MIN-15 elevator.
- Pt #20: Horizontal Stabilizer. The stabilizer is sharply swept on the leading and trailing edges with a rounded tip on the front curving to the rear. The leading edge is 10cm thick in the center and tapers off to two cm thickness on the trailing edge. The stabilizer is mounted about twothirds of the way up on the vertical stabilizer and is of all-metal construction utilizing flush type riveting.

D. Landing Gear:

- Pt #8: Nose Wheel Boors. The aircraft has double nose wheel doors of unknown size. The doors are operated by a mechanical linkage to the nose strut and when closed, form a tight fit at the center.
- Pt #21: Main Strut. The MMS-17 has two main landing gears that are hydraulically operated and mounted under each wing. The landing gear retracts inboard toward the fuselage, and to take up landing shock, the cleo type strut is pumped up 20-30cm.

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C-O-H-Y-I-D-E-H-T-I-A-L

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Pt #23:	Nose Tire. the black rubber casing is 30cm in dismeter and 10-12cm thick.	25 X 1
Pt #24:	Nose Strut. The nose wheel strut is of off-set construction and retracts to the rear into the nose section. When extended it has a brace on the rear side that forms a scissor with an adapter to eliminate shimmy during take-off and landing.	
Pt #25:	Main Tire. The black rubber casing is 70-80cm in dismeter and 12cm thick.	25X1
E. Engine 1	Installation:	25 X 1
·	The aircraft is started by the use of a mobile 24 volt battery cart.	25 X 1
Pt # 6:	Exhaust Cone. The EDG-17 aircraft has an afterburner unit and the exhaust outlet is approximately 60-70cm in diameter. Pilots are continually cautioned against using the afterburner for extended periods as it would burn out the tail pipe.	
Pt #19:	Air Intake. The air intake for the MIG-17 is located beneath the Lokator unit sic J. The inside dismeter of the air intake is approximately two feet.	
F. Armemer	at:	
Pt #9:	Gun Package. The MIG-17 is equipped with a retractable gun package similar to the MIG-15. The tray is lowered on four steel cables six to eight mm in diameter by means of a hand crank. The 37mm cannon is mounted on the right side and the two 23mm cannons are mounted on the left side of the tray. The 37mm gun is called a Nuderman rapid fire cannon and is capable of firing 410 rounds per minute, but the sumunition cans are loaded with 40 rounds for a mission. The two 23mm guns are called Muderman and Riksov rapid fire cannons and have a firing rate of 870 rounds per minute. These cannons are loaded with 80 rounds each for a mission. The 37mm and the 23mm cannons use three different types of projectiles: tracer, incendaries, and detonators. The detonators, have a slow burning powder that explode the shell at a given range. The most commonly used linking of shells consisted of one tracer, three detonators, and two incendaries. gun stoppages, but when one occurs it is impossible to recharge the guns in flight. When mounted only the two 23mm cannons are adjustable for alignment to the gun sight. Upon return from a firing mission, it takes five to 10 minutes to reload the gun tray. On the front left side of the tray is a bump which is a housing for a reel to lower the	25X1 25X1
TH #10.	entire package.	
eg #10:	Ickator. it has some connection to the gun sight The outer cover is made of a compressed composition material light brown in color.	25X1
Pt #22:	Two 23mm cannons mounted in a retractable gun tray. Both cannons fire straight ahead and are loaded with 80 rounds each.	
Pt #27:	One 37mm cannon mounted on the right side of a retractable gun tray. This weapon fires straight sheed and is loaded with 40 rounds of ammunition.	
Pt #29:	Gun Sight.	25X1
L	note: a gun sight similar to the one shown in Fig #17, Section III, Tab-6 of the Air Intelligence Guide. 7 it worked in relation with the Lokator unit.	22711

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G. Communication:

Pt #2: Enife Antennas. The aircraft has normal radio communications described as four channel, crystal controlled. Channel #1 is for standard use, Channels #2 and 3 are changed at various times, and Channel #4 is used by both Hungarian and Soviet Air Forces and is never changed. The only visible entenna is a knife most mounted on the right top side of the fuselage and to the rear of the campy. The knife is 70cm high, four to five on wide and constructed of a compressed material with a slight tilt to the rear.

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H. Flying			l7 is equipped ellent charge.	wit	h an	eject.	ion se	at	that is	operated	25X	
	the				the	seat	flev	about	: 17	meters	into	25X1
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