

MiG-21MF - Check lists

1. Before engine start-up procedure

- Connect external power from the truck
- Turn on following systems:
 - a) *Battery*
 - b) *DA-200*
 - c) *Radio*
 - d) *ARK-10*
 - e) *Radio altimeter*
 - f) *KSI*
- ARK-10 mode switch on COMPASS
- Warning lights test

2. Engine start-up preparation

- Generators (AC/DC)
- External tanks fuel pumps
- 1 and 3 tank groups fuel pumps
- Filling stations
- Start units
- Starting Engine: Ground
- Check indications:
 - a) *Low Hydraulic Pressure in booster system*
 - b) *Low Hydraulic Pressure in main system*
 - c) *Generators (AC/DC) off*
 - d) *Voltmeter 28-29V*

3. Engine start-up

- Throttle on idle
- Press engine ignition button for 3 seconds
- Check RPM and indications:
 - a) *with n2 10-15% Check oil pressure*
 - b) *with n2 20-25% Hydraulic pressures minimum 185 KP/cm2. On 195 KP/cm2 Warning lights goes off*
- Observe exhaust gases temperature. Should not extend 710°C
- After 40 seconds 'Engine Off' Light should be off.

Immediately stop the engine start-up in the following situations:

- a) *The sharp drop in oil pressure in the engine*
- b) *the fuel or oil leak reported by the service*
- c) *The rapid rise in temperature of exhaust gas*
- d) *The occurrence of fire or sparks around the nozzle outlet reported by service*
- e) *aircraft Tremor*
- f) *compressor-stall*
- g) *The smoke coming out inside the cabin*
- h) *No wedge under the wheels*
- i) *Ice on the cone reported by service*

4. After Start-up

-Turn on following systems:

- a) *Cone*
- b) *Trims*
- c) *SARPP*
- d) *Autopilot*
- e) *AGD*
- f) *Transponder (SOD)*
- g) *ARU-3V - AUTO*
- h) *SPS*
- i) *aileron boost*

-Disconnect external power from the truck

5. Before Taxi

- Flaps in the take-off position
- Enable and test the automatic braking
- Put on the oxygen mask
- command to remove the ladder and closing the canopy
- Close and lock the canopy
- cabin encapsulation
- Check of the encapsulation. The pressure difference up to 0.08 kg/cm²
- Report the completion of procedures for aircraft launch and ask for permission to taxi

6. Taxi

- Release the brakes
- increase rpm n₂ to 70%
- Check the brakes
- increase rpm n₂ to 80%
- The aircraft is unable to perform the turning radius of less than 5m

SPEED:

- In a straight line up to 30 km / h

- On gentle arch up to 15 km / h
- On a sharp curve up to 5 km / h
- Do not perform full braking when negotiating curves

NOTE:

- In case of obstacles immediately stop taxing
- Distance from the preceding aircraft must be at least 100 m to prevent suction of dust
- During taxing set the ARK-10 and barometric altimeter
- Stop before entering the runway and wait for permission to occupy the runway

7. Shutdown the engine

- Cool down the engine before shutting down for 2 minutes on idle
- Use Engine shutdown lever
- Turn off all aircraft systems. Remember to turn off the battery as a last one