Screen-shot the result of View/Mode/Viewing (alternatively Download...PDF in Firefox), default 100%, start at -0.5/-0.5 cm with the help of the ruler for consistent content placement, size 768x1024.

NOTES

- The term "rear cockpit" is used here, just like in the DCS L-39 manual. "Aft cockpit" is used in many other publications and real L-39 flight manuals.
- "Auxiliary Electrical CB Panel" is used in the DCS L-39 manual for the panel with circuit breakers in the front cockpit on the aft right side. The panel is also known as an "auxiliary switchboard" or "aft CB/switch panel" in other sources. It's always set up properly by DCS (everything ON).
- Occasionally, "HSI" is used for RMI in the resources likely because RMI has many of the HSI functions. This happens once in the DCS L-39 manual [1] and a few times in the real-life flight manual [3].
- Navigation lights are used in this manner: cold flashing, hot steady, taxiing flashing, TO/flight steady, after landing until flashing. Inspired by various sources, among others FAA about lights (AIM) see <u>Section 3. Airport Operations</u>, section 4-3-23 Use of Aircraft Lights.
- When communicating with ATC the menu does not close and stays in the ATC submenu. When the ground crew is contacted (\) the wrong submenu stays open. Always check whether the communication menu is not already open and also its state and use **F11** and **F12** as needed before or after using \ or **RShift+**\.
- Ejection seat setup, checks, pins, pilot weight... is ignored in these checklists.
- ADF (NDB) outer/inner components are positioned to the outer side of the cockpit for outer NDB and to the inner side of the cockpit for the inner one. This means that while the NDB switch on the left side of the cockpit (under the gear indicators) has "O" (as outer) on the left, the ADF frequency selector for the outer NDB on the right console is on the right (outer) side. Simply put, "outer" is always away from you, while "inner" is always closer to you.

PRE-FLIGHT CHECKS before EXTERIOR INSPECTION

These steps are not applicable in DCS. Maintenance personnel completed all pre-flight requirements. Checklist based on [Bonus 3].

- 1. Chocks: in place (can be added later \, F8, F4, F1)
- 2. Fuel/hydraulic leaks: none
- 3. Fire extinguisher: in place
- 4. Aircraft: no bank
- 5. Left nose door: closed and latched

RIO-3 icing sensor and antennas are under the nose, checked by the maintenance crew. Icing sensor should not be covered.

- 6. Nitrogen pressure gauge: 120 to 150 kp/cm² (low-res in DCS)
- 7. Right nose door: closed and latched
- 8. Nosewheel: tire condition and red marks alignment, strut, WOW microswitch free movement, gear down light condition, door is closed, shimmy damper condition, no damage
- 9. Canopy condition
- 10. Right air intake: clear, blades condition

 Here you can also check the temperature probe, speed brakes conditions (should be retracted)
 and IFF antenna.
- 11. Right gear: tire, light condition, gear well, no leaks, brakes, anti-skid cable, no damage
- 12. Right pitot tube (primary): uncovered and clean
- 13. Right wing tank and lights: check condition, tank closed

14. Right wing, aileron, flaps: check condition and leaks If pylons/stores are used, check their condition too.

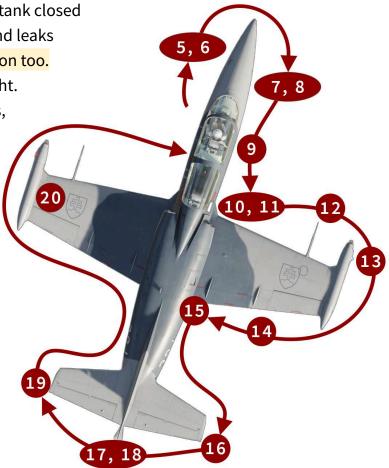
15. Oil should be checked here, but after the flight.

16. Right stabilizer: check conditions, static wigs, vortex generators, trim tab

- 17. Nozzle: clear, blades condition
- 18. Rudder: condition

Trim tab is fixed on L-39, set for the aircraft.

- 19. Left stabilizer: condition
 - Left elevator trim tab works automatically when the flaps are set to landing position.
- 20. Left wing, gear and pitot tube (stand by), air intake: check/condition/clear (similar to the steps 10–14 in reverse)



BEFORE START - Rear Cockpit inspection:

Normally everything is set properly, only things overriding the front cockpit are checked.

It is not possible to switch to the rear cockpit (2) if the solo flight was set in the Mission editor.

The steps go around the cockpit left-to-right (CW):

- 1. **Suit ventilation**: as required, closed for solo flight (N/A in DCS)
- 2. **Oxygen interconnect**: closed (CW all the way), open for solo flight (CCW)
- 3. Oxygen supply valve: open (CCW all the way), closed for solo flight (CW)
- 4. Fuel shut-off lever: forward and guarded
- 5. Throttle cut-off lock gate: **Open** (N/A in DCS)
- 6. **EGT Indicator** switch (behind the throttle handle): **FWD**
- 7. Air brake switch: neutral (middle, front cockpit has command)
- 8. Emergency brake lever: disengaged (fully forward)
- 9. Landing gear lever: neutral (middle position, front cockpit has command)
- 10. Central console **Pressure failure simulation** levers: both in **ON** positions (fully CCW)
- 11. Central console all A.H.Failure switches (GMK, ARK and two AGD): OFF (down)
- 12. NETW and ARMS CB switches: both ON
- 13. Emergency levers: all OFF (forward)
- 14. Magnetic declination set (by default OK)
- 15. All guarded switches and buttons: Covered
- 16. Canopy is closed and locked

In non-solo flights AI will move **ECS and Pressurization** handle as needed when the time is right.

BEFORE START - Cockpit inspection:

All these steps are optional in DCS, normally everything is set properly.

- 1. **Suit ventilation**: as required (N/A in DCS)
- 2. **Oxygen supply valve**: open (CCW all the way, done by DCS)
- 3. **Diluter demand** switch: **Normal** (MIX, done by DCS)
- 4. **Emergency oxygen** switch: **OFF** (done by DCS)
- 5. **Helmet ventilation**: as required (typically **OFF**, not modelled in DCS)
- 6. Fuel shut-off lever: forward and guarded
- 7. FLT recorder (SARPP): OFF
- 8. **Pitot tube** switch: **MAIN** (behind throttle, can be moved forward)
- 9. **Throttle**: check full and free movement, leave in **STOP** position
- 10. Air brake switch: front (air brakes retracted)
- 11. Spotlight switch (Landing taxi/lights): OFF
- 12. Oxygen pressure indicator: 150 kp/cm²

The pressure can drop to 130 kp/cm² when outside temperatures are below 0°C.

- 13. Emergency/Parking brake lever: neutral (or Parking if no wheel chocks)
- 14. Landing gear lever: down (extended)
- 15. **Accelerometer**: reset (press and hold the **Reset Limits** knob for a second)
- 16. Altimeter: set 0 (Barometric Pressure QFE Knob)
- 17. *Check* instruments condition, clock/time and try the **stopwatch** function.
- 18. Central pedestal, *signal flares* buttons and switch: buttons basic position (out), switch **OFF**
- 19. Central pedestal, armament panel: all switches OFF
- 20. ECS and pressurization handle: OFF (back)
- 21. Main CB/switch panel: all switches OFF
- 22. Emergency levers: all OFF (forward)
- 23. CBs on Auxiliary Electrical CB Panel: all ON
- 24. **Rear cockpit** canopy is **closed** (it should be locked as well)

If the rear cockpit canopy is not locked, it will be obvious when the front canopy is locked, but the *Warning lights panel* still shows **Canopy Unlocked**. This is unlikely in DCS.

BEFORE START - Systems:

1. BATTERY/AKKYM switch: ON

Voltammeter shows >22 V (typically 24 V)

Warning lights panel – flashing (5): **Don't Start**, **Hyd. Syst Fail**, **Generator**, **Emergency**

Generator, Inv. 115 V Fail

Warning lights panel - continuous (1): Canopy Unlocked

Caution & advisory panel - flashing (3): Aircondit Off, Inv 3x36V Fail, Eng. Min Oil Press

- 2. **Cockpit lights** as needed (Flashlight is also available)
- 3. **Navig. Lights** switch: **Flicker/MUГАНИE** to indicate active cold aircraft
 - a. optionally adjust the brightness if too bright at night
- 4. **External power** as needed (\, **F8**, **F2**, **F1**) wait for the yellow indicator on the left console *Voltammeter* shows **27–29 V**

Use external power when using the systems a lot before the engine+generator are started.

- 5. Wheel chocks: place (\, F8, F4, F1) or use the Parking brake, or both
- 6. ENGINE/ДВ-ЛЬ switch: ON

Lights out within 5 seconds (2): Don't Start, Inv 3x36V Fail

If **Don't Start/HE3AПУK** does not go off within 5 seconds do not start the engine!

7. INVERTOR I & II/ΠΡΕΟБΡΑ3. I & II switches: ON

Lights out: Inv. 115 V Fail/Πρεοбраз 115B

8. **Warning light check** button (right console, behind emergency levers): **hold** *Check:* Warning/Caution & advisory lights, pitot heating, flaps, landing gear panel indicators, central console indicators (flight recorder and de-icing sensor lights are not tested)

Tests in **steps 9–14** are done right-to-left (CCW), ending with a few instruments checks:

9. **RT-12 JPT Regulator Test** switch: try I and II (then return to the central position)

Caution & advisory panel: continuous yellow J.P.T. 700°C for I and flashing red J.P.T. 730°C for II.

Note: Due to a bug it always shows 700°C.

Note: Works only when both **BATTERY** and **ENGINE** switches are on.

10. RIO-3 De-Icing Sensor Heating Circuit Check button: hold

The green light next to the button is on.

11. Fire Sig. Test (central console, spring-loaded): try I and II (hold mouse LB/RB)

Warning lights panel - flashing: FIRE

12. IV-300 Engine Vibration Test button: hold

IV-200 engine vibration gauge: **75–100 mm/s**

Warning lights panel - flashing: Engine Vibration

- 13. Fuel meter gauge check: shows current fuel (not 0, after ~1 min after **Engine** switch)
- 14. *Three-pointer oil and fuel indicator* check: must show exactly 0 for both pressure gauges and some temperature (when off, pressures are below 0 and temperature is 0)

BEFORE START - Communications and Navigation:

Normally these are set in the Caucasus map properly <u>for hot start</u> based on the home airfield. For the cold start these need to be set up before the further steps.

If the aerodrome does not have RSBN or NDBs, these are not set. In the Caucasus, ADF is not set by default when hot-starting from Batumi, Gudauta, Kutaisi, Sochi, Soganlug and Vaziani. Reverse ADF is set for Tbilisi - Lochini.

Use one of many frequency/channel lists available for DCS.

- 1. R-832M Preset Channel Selector Knob (Radio channel): to local aerodrome, or as needed
- 2. *ADF Control Box* (RKL-41) as needed, for example:
 - a. ADF Audio switch: set ADF (to hear the NDB codes)
 - b. Far-Near NDB switch: set O (to set the outer beacon)
 - c. ADF Mode switch: set TLF (to hear the NDB codes)
 - d. ADF Function Selector switch: set ANT
 - e. **Far NDB frequency** (right): set to outer NDB (two rotary selectors and one fine-tune knob)
 - f. Check/hear the code
 - g. ADF Mode switch: set TLG
 - h. ADF tuning indicator: check full needle deflection (signal intensity)
 - i. ADF Function Selector switch: set C AUT
 - j. RKL-41 ADF gauge (instruments): check the direction to the NDB
 - k. Far-Near NDB switch: set I
 - l. Repeat **steps** c-i for inner NDB
 - m. When ADF setup is finished:
 - n. Far-Near NDB switch: set O
 - o. ADF Audio switch: set OFF
 - p. ADF Function Selector switch: set OFF
- 3. **RSBN setup** as needed:
 - a. **RSBN Navigation Channel**: set as needed (use the table for available aerodromes)
 - b. RSBN Landing Channel: set as needed
 - c. Optionally check the navigation channel with the **RSBN Listen Callsign** button (with **RSB Volume Rheostat** as needed)
- 4. **RSBN Field Elevation** knob (ZDV-30): set altimeter pressure (for proper RSBN approach)
- 5. **PU-26E control panel** (right aft) for GMK-1AE directional gyro check (normally set by DCS):
 - a. **GMC Mode** switch: set **MC** (MC/GC magnetic/gyro compass)
 - b. **GMC Hemisphere Selection** switch: as needed (mostly **N** north)
 - c. GMC Latitude Selector knob: as needed
- 6. IFF (N/A in DCS)

STARTUP:

- 1. Check BATTERY/AKKYM and ENGINE/ДВ-ЛЬ switch: ON
- 2. Cockpit lights as needed
- 3. **Navig. Lights** switch: **Flicker** to indicate active cold aircraft
- 4. All other main C/B switches: OFF (INVERTOR I & II and RDO can be left ON if used in step 7)
- 5. Throttle: STOP
- 6. *Voltammeter* check: **>22 V** (if not, ask for **ground power** using \, **F8**, **F2**, **F1**)

 Do not attempt an engine battery start if the battery voltage is less than 22 V!
- 7. **Optional:** To request start-up from ATC:
 - а. INVERTOR I & II/ПРЕОБРАЗ. I & II and RDO/PT/I switch: ON
 - b. Check radio channel set (left console)
 - c. Request Start-Up via R-832M: Radio button, F5, F1, F3 (F11, F12 to close)
 - d. INVERTOR I & II/ПРЕОБРАЗ. I & II and RDO/РТЛ switch: OFF
- 8. FLT Recorder (FDR or SARPP) switch: ON
- 9. **Turbo** (APU) button: uncover and press for 2s; start the stopwatch *Caution & advisory panel continuous: Turbine Starter within 25 seconds*
- 10. **Turbo** button: close the cover, reset the stopwatch
- 11. **Engine** button: uncover and press for 2s; start the stopwatch
- 12. Throttle to IDLE within 3-6 seconds (optionally can be done before step 11)
- 13. Check: If any step fails, SHUT DOWN the engine! (Throttle to STOP)
 - a. HPC RPM (needle 1) rises within 8 sec.
 - b. Minimum 20% RPM within 15 sec.
 - c. EGT rises within 25 sec.
 - d. When HPC RPM is 30%, LPC RPM starts to increase
 - e. Max *EGT* **685°C** (**600°C** according to [1])
 - f. When RPM 41.5-44.5 % Turbine Starter light goes out (APU should shut off within 45s)
 - g. Idle RPM 56±1.5% reached within 50 sec.
 - h. Oil pressure at idle at last 2 kp/cm²
 - i. Check Warning lights out: **Hyd. Syst Fail** (3 blinking and 1 continuous left)
 - j. Check Caution & advisory panel out: **Eng. Min Oil Press** (1 blinking left)
- 14. **Engine** button: close the cover, reset the stopwatch
- 15. Navig. Lights switch: Fixed Lighting/НЕПРЕРЫВ to indicate hot aircraft
- 16. Canopy close and lock steps 16+17 at any time during this checklist

 You can close the canopy by yourself, or ask the ground crew (\, F8, F5, F2).

 Check Warning lights out: Canopy Unlocked immediately if not, check the rear cockpit
- 17. **ECS and Pressurization** handle: fully forward to **ECS ON**Caution & advisory panel out: **Aircondit Off** (takes ~30 seconds, can be checked later)

AFTER START:

- 1. **GENERATOR MAIN+EMERG./ΓΕΗΕΡΑΤΟΡ OCHOB.+3AΠAC.** switches: **ON**
- 2. **Ground power: OFF** if used (\, **F8**, **F2**, **F2**)
- 3. Check Warning lights out: Generator, Emergency Generator
 9 kW engine-driven generator is connected to the circuit when a) GENERATOR MAIN switch is
 ON, b) NETW switch in the rear cockpit is ON, c) generator voltage is higher than battery voltage, and d) external (ground) power source is disconnected from the aircraft.
- 4. Voltammeter check: 27-29 V
- 5. *Master caution light* check: **OUT** (after both Generator lights went out)
- 6. INVERTOR I & II/ΠΡΕΟБΡΑ3. I & II switches: ON Check Warning lights out: Inv. 115 V Fail
- 7. **RDO/PT/I** switch: **ON**
- 8. AGD-GMK switch: ON

Check ADI and RMI instruments coming alive, compare RMI heading with the compass.

- 9. MRP-RV switch: ON
 - Radar altimeter failure warning goes out (red turns black) and starts self-test (don't wait for it).

 After 1 minute it will finish the self-test and beeps, Dangerous Altitude warning light goes on.
- 10. **RSBN** and **SDU** switches: **ON** (unless instructed otherwise)
- 11. WING TANKS switch: ON, if Wing Tip Tanks light goes on, they are empty, switch to OFF again
- 12. **ADF Function Selector** switch: set **C AUT** (unless instructed otherwise) *Check ADF gauge* for NDB direction (if in range).
- 13. Hydraulic pressure check: **main** (left) **135–150 kp/cm**², emergency **150 kp/cm**²
 As the aircraft climbs, emergency circuit pressure may drop down to 120 kp/cm² at the ceiling.
- 14. Caution & advisory panel out: Aircondit Off (~30s after ECS fully ON, should be out by now)
- 15. Pressurization check: **UVPD** shows **0.02–0.05** (needle below zero)
- 16. Check all indicator lights, including Master caution, are off; Altitude warning can stay on
- 17. Check Radar altimeter: self-test finished, it beeped, pointer went all the way and back to 0. If the failure warning flag is RED the instrument is off or not working.

 When it's BLACK it is turned on. Yellow **dangerous altitude lamp** should be on.

Can be optionally reset: Move the index ("bug") to 0, then set it as desired.

Reset turns off both dangerous altitude lamp and Dangerous Altitude warning light.

BEFORE TAXI and **HOT-START on RAMP**:

- 1. If the ambient **temperature is below +5 °C**, or before the flight in **adverse weather conditions** or **night flights**, **high-altitude flights** or if instructed:
 - a. Pitot Tube Heating Main and Stand-By switches: both ON (indicated by green lights)
 - b. **DE-ICING SIGNAL** switch: **ON**
 - c. **Anti-icing** switch: **MANUAL** while running on ground, **AUTOMATIC** when airborne **Automatic** setting relies on the RIO-3 sensor and air flowing around it, that's why **Manual** position is recommended in icing conditions while on the ground.
- 2. *Check* control surfaces, flaps cycle, gear/flaps outside indicators (red/white sticks)
- 3. Flaps: TAKEOFF position
- 4. Check both trims are reset (with external stores elevator trim: 2 marks aft [3], p2-8)
- 5. Engine run-up test? [3], p2-8 (TODO optional steps, shortly, also https://youtu.be/ltKAf5VCkxI?t=1814)
- 6. **RMI course**: set the heading (true) to the runway, consult the RWY list with true headings.
 - a. If it is unclear what RWY is used, do it in step 7.
- 7. Check stopwatch: OFF
- 8. Check clock
- 9. **IFF**: set **ON** (N/A in DCS)
- 10. Gunsight check as needed:
 - a. ASP-FKP switch: ON (if not visible, check brightness and mirror deflection)
 - b. Set as needed: Gunsight Mirror Depression, Target Wingspan (size), Target Distance
 - c. ASP-FKP switch: OFF
- 11. Request taxi clearance (R-832M radio button, F5, F1, F1)
 - a. Check that RMI matches the suggested RWY
- 12. Wheel chocks: remove if used (\, F8, F4, F2)

Hold the **wheel brake** while they are doing it.

- 13. Parking brake check: neutral
- 14. **Spotlight** switch: **TAXI**
- 15. Navig. Lights switch: Flicker to indicate taxiing aircraft
- 16. Check area is clear (in order to throttle up)
- 17. Check brakes: hold the wheel brakes, RPM 85%, release the brakes, wait for the plane to start moving, engage the brakes to stop, RPM back to idle

TAXIING:

- Taxi with both canopies closed and locked.
- Check that the area around the aircraft is clear.
- L-39 uses differential braking. As you use the rudder, the brake on the opposite side starts to be less effective beyond 50% rudder deflection and reaches 0% only at the very extreme position of the rudder. To turn, use the rudder all the way to either side and then pump the brake lever.
- Taxi at lowest practical RPM:
 - To start taxi: ~65% RPM (if it doesn't move at 70%, check the parking brake)
 - To maintain taxi: idle to 60% RPM
 - Turning: ~70% depending on the turn/braking
 - For sharp turns use short bursts of stronger braking, avoid slowing too much.
- Speed on concrete should not exceed:
 - o 60 km/h straight, turns 15 km/h without external stores, 10 km/h with them.
 - DCS manual states 30 km/h straight clean, 15 km/h with external stores and 10 km/h before and during turns.
 - o Speed limits for grass strips: 15 km/h straight, 5 km/h for turns

END

BEFORE TAKEOFF and HOT-START on the RWY:

- 1. Check both trims are reset (with external stores elevator trim: 2 marks aft [3], p2-8)
- 2. Flaps check: TAKEOFF
- 3. Canopy check: closed and locked
- 4. FLT Recorder check: ON
- 5. At the holding position before entering the runway (**skip for the hot start**):
 - a. Check the runway for obstacles or approaching planes
 - b. Request takeoff clearance (R-832M radio button, F5, F1, F1)
 - c. Roll on the runway and center on it, don't stop before the front wheel is straight
- 6. *Compass* heading check
- 7. ADF direction check (should be behind, if local NDB is tuned), beacon as needed (typically O)
- 8. RMI check (should be aligned with the runway, pointing ahead) GMK-1AE
- 9. Check GMK alignment: check or press MC SYCNHR. button
- 10. Altimeter check: as required, or set to zero
- 11. RSBN QFE check: matches with the altimeter (if RSBN is used)
- 12. Pitot tube heating check: as required
- 13. In icing conditions: **Anti-icing** switch: **AUTOMATIC**
- 14. Navig. Lights switch: Fixed Lighting to indicate takeoff/flight

TAKEOFF:

- 1. *Check* hydraulic pressure (right console)
- 2. Check all indicator lights, including Master caution, are off; Altitude warning can stay on
- 3. Wheel brakes: engage
- 4. Flight timer: start (AChS-1 left button press)
- 5. **Throttle**: set **TAKE UP** (max power)
- 6. Check:
 - a. EGT: <660°C
 - b. Vibration: <40 mm/sec (Warning lights panel: Engine Vibration not flashing)
 - c. RPM: 106.8±1%
 - d. Oil pressure: ≤4.5 kg/cm²
- 7. **Spotlight** switch: **LANDING** if needed

Use **LANDING** only just before the takeoff roll. Don't use it on the ground and during taxi for longer than 3 seconds to avoid lamp overheat (not simulated in DCS).

- 8. Wheel brakes: release
- 9. Maintain direction with brakes up to 60 km/h, after that use the rudder.
- 10. At 150 km/h IAS, rotate to maintain 10° pitch
- 11. Aircraft airborne at 180–190 km/h (without externals stores)
- 12. With positive rate of climb, at 220 km/h IAS and altitude >15 m AGL:
 - a. Landing gear: set UP
 - b. Check three green lights (gear) and U/C Doors Out off
 - c. Check **mechanical indicators** (wings, nose)
- 13. At 250 km/h IAS and altitude >50 m AGL:
 - a. Flaps: set UP
 - b. *Check* electrical (light) and mechanical indicators (wings)

Flaps are automatically retracted at airspeed 310 km/h.

- 14. Spotlight switch: OFF
- 15. Throttle: as needed (e.g. 100% RPM for normal climb)
- 16. **Trim**: as required

CLIMB

DESCENT

FENCE IN - relevant?

BOMB deployment

ROCKETS deployment

CANNON deployment

LANDING:

TODO - review order

- 1. TODO: instrument approach?
- 2. Landing gear down, check mechanical indicators or use spotlights on TAXI (?) to confirm
- 3. After touchdown
- 4. Keep aircraft centered
- 5. Spotlight switch: if LANDING is used, switch to TAXI when slowing down to avoid lamp overheat.
- 6. Stop the flight timer
- 7. Flaps up

AFTER LANDING CHECKS

ENGINE SHUT DOWN

- 1. Throttle: set IDLE
- 2. Wheel chocks: place (\, F8, F4, F1) or use the Parking brake, or both
- 3. **ECS and pressurization** handle: **OFF** (back)
 It may be switched OFF by the instructor pilot from the rear cockpit before you do it. It's OK.
- 4. *Except* for the Main CB/switch panel, Navig. Lights and FTL Recorder, check all the other switches and turn them OFF or to the default position.

This includes Pitot heating switches, Spotlight, navigation systems (RSBN/ADF), armament, etc.

- 5. Main CB/switch panel except for ENGINE and BATTERY: set OFF
- 6. Throttle: set STOP

If it does not work, check the rear cockpit (key **2** by default) and disengage the "throttle limiter" (AKA "extendable lock", no bindings). Then you can set the throttle in the front seat to STOP.

7. Canopy: unlock and open

You can open the canopy by yourself, or ask the ground crew (\, F8, F5, F1).

8. Wait until the engine RPM pointers reach **0**.

9. Navig. Lights switch: OFF

10. **ENGINE** and **BATTERY**: set **OFF**

11. FLT Recorder switch: set OFF

AEROBATICS

- Minimum speed at all altitudes: 200 km/h
- Inverted flight time max: 20 s (then wait 20 s for the next inverted flight)

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Loop

Resources

- 1. DCS: L-39 Albatros Flight Manual
- 2. FLIGHT MANUAL L-39C, Albatros N5683D (Serial No. 931529, Aero Vodochody, 1991)
- 3. FLIGHT MANUAL L39C AIRCRAFT by Czech Jet, Inc. (part# T.O. 1T-L39C-1)
- 4. Flying the L39 short article
- 5. <u>Lino's checklists</u> (DCS, 2015), multiple checklists, including *L-39 Albatros Amplified Normal Checklists (Startup with explanatory descriptions)*
- 6. Real L-39 Pilot Start up, Taxi and Takeoff (DCS, also used for one of Lino's checklists)

Bonus resources

- 1. Real-life series <u>Unboxing Our 1975 Soviet Fighter Jet</u>, <u>Assembling Our L-39 Fighter Jet</u>, <u>But Will It Start?</u> and <u>Test Flying Our L-39 Fighter Jet</u>
- 2. My L-39 Albatros Training: Jet Transition & Flying the Overhead Break Part 1
- 3. L-39 High Performance Civilian Jet Walkaround Review