BEFORE ENGINGE START

Preflight Inspection COMPLETED
According to Handbook, Cpt. 4.3
Rudder Pedal Position SET
Seat belts TIGHTEN
Flight ControlsCHECKED
Canopy LOCKED
Parking Break SET
Apply pressure and set, then 'pump'.
Use of ext. Power:
See notes in Handbook Cpt. 4.4.2

ENGINGE START

LINUINUL SIAKI	
Circuit Breakers	
Wait for boot sequence. Check FUEL QTY!	
Conf. amber "BACKUP BATT" msg. Conf. CO vallue 255ppm, then decr.	
Master Switch ON MFD Conf. amber "BACKUP BATT" msg. CAS message OFF	
Backup Battery OFF GEN A/B ON Voltage M MIN. 12 V (Batt/Alt-C Bus) Fuel Selector MORE EMPTY TANK Propeller Control FINE Fully forward	
Throttle	

LANE A / LANE B ON Main Fuel Pump ON

Continues next column!

CONTINUE: ENGINGE START

Start Power ON (HOLD!) LANE A/B Lamps:
wait till lamps turn OFF
MFD Engige Indication CHECKED
-> active and correct
-> Fuel Pressure in Limits
Throttle
Coolant Tmp. <0°C Thrtl. >= 60%
Coolant Tmp. <0°C Thrtl. >= 60% Coolant Tmp. >0°C Thrtl. ca. 45%
ENGINE START:
Hold "Start Power", THEN press "START"
until Eng. fires. Then release
Start-Button and "Start Power".
Throttle IDLE
Oil Pressure CHECKED
LANE A / B IND. LAMP OFF
Both switches remain ON!
The Indicator Lamps should go out.
Throttle 2500 RPM FOR 10 SEC
Voltage M / Voltage B 13.4 / 14.0 V
, ,

AFTER ENGINE START

Avionics	
ALT-CON	
Voltage M CHECKED	
Increasing, nom. 13.8 V	
EFISON	
EFIS Power Source CHECKED	
Verify NOT on internal Batt.	
Baro PFD + MFD SET	
StbyEFIS, GTN are synced. MFD isn't!	
Engine Warm-Up:	
2500 RPM until oil temp > 50°C.	
Then set throttle to IDLE.	

BEFORE TAXIING

Nav Light (at night) AS REQUIRED Landing-/Taxi-Light . . . AS REQUIRED A/C movina: Liahts on! PFD, stby EFIS, MFD CHECKED ADHRS stabilised.

TAXIING

Keep RPM < 2500, taxiing with walking speed! Check breaks & steering. Ground Control CHECKED Brakes CHECKED Indications CHECKED Attitude/direction: PFD, MFD, stby EFIS

ENGINE RUN UP

Parking Brake
<u> </u>
Landing-/Taxi-Light AS REQUIRED
A/C standing still: Lights off!
Pump and Fuel Supply Check
Throttle: 3000 RPM
AUX Pump: ON, pressuere in limits
AUX Pump Light: ON
Main Fuel Pump: OFF
Pressure still in limits: CHECKED
Mail Fuel Pump: ON
Fuel TankSIDES SWITCHED

Fuel Pressure.....CHECKED Fuel Tank.....FULLEST TANK

Continues next column!

CONTINUE: ENGINE RUN UP

Wastegate/PVC/Lane

Confirm BRAKES are fully set. Throttle: FULL THROTTLE RPM: min 5700. max 5800 Manifold Pressure: within LIMITS Manifold Temp: Below 65°C Throttle: reduce to 4700 RPM LANF A: OFF Max drop 250 RPM (aft. 15 sec.) Check FNG Params in Limits! LANE A: ON (wait 3 sec.) LANF B: OFF Max drop 250 RPM (aft. 15 sec.) Check ENG Params in Limits! LANE B: ON (wait 3 sec.) Propeller Control CHECKED Cucle 3 times. Move lever slow backwards, fast forward. Throttle IDLE CHECK Trhottle SET 3000 RPM

BEFORE TAKE-OFF

InstrumentsCHECKED
Pitot-heat AS REQUIRED
Flight ControlsCHECKED
Cockpit CanopyCLOSED & LOCKED
Seat BeltsTIGHTENED
AEPS System UNLOCKED
store pin in middle compartment
Engine Instruments CHECKED
Flaps FLAPS 1
Continues next page!

CONTINUE: BEFORE TAKE-OFF

Autopilot

Autopilot Switch: ON Engage, for each test Check if AP can be overpowered! Check AP Disconnect by: Any Trim input, AP-Disc. button. Trim.....T/O POSITION Autopilot Switch OFF Autopilot Panel LEDs ALL OFF

TAKE-OFF

Landing-/Taxi-Light ON Brakes RELEASED Propeller Control FULL FORWARD Throttle FULL POWER Airspeed Indication CHECKED: ALIVE
TAKE-OFF SPEEDS
Nosewheel Unstick 50 KIAS
Lift-Off60 KIAS
Initial Climb 70 KIAS
Flaps retract
Not less than 150 ft AGL
Climb

CLIMB

Climbing Speeds

v_u best ROC 78 KIAS v_x best AOC 63 KIAS

Throttle FULL FORWARD

Prop Control

Set Engine Speed max. 5800 RPM for 5 min max continuous 5500 RPM

instruments T & P IN LIMITS AUX Pump OFF

Fuel Pressure CHECKED Landing Light AS REQUIRED

CRUISE

Fuel Selector

Switch every 25min, latest. Check for balanced quantity! See notes in AFM Cpt. 4.4.13.

Throttle......AS REQUIRED Prop Control MAX. 5500 RPM Fuel Flow CHECKED Pitot Heat AS REQUIRED Changes in PWR:

PWR↑.....1. RPM - 2. MAP PWR↓.................1. MAP - 2. RPM

PWR	RPM	MAP
100 %	5500 RPM	40.5 inHg
75 %	5000 RPM	33.0 inHg
59 %	4500 RPM	25.5 inHg

DECENT

Throttle 15...17 INHG Prop Control.....MAX 5000 RPM Airspeed......90...100 KIAS Pitot-Heat AS REQUIRED Do NOT reduce to IDLE in cold OAT environments!

BEFORE LANDING

Seat Belt TIGHTENED Cockpit PREPARED Autopilot DISENGAGED Autopilot Switch OFF Throttle AS REQUIRED Speed 83 KIAS Flaps FLAPS 1
TrimAS REQUIRED
Landing Light ON
AUX PumpON
Final Approach
FlapsFLAPS 2
Speed 65 KIAS
TrimAS REQUIRED
Prop Control FINE (FORWARD)
Throttle SET
Approx. 7 inHG,
Maint. RPM > 2600

BALKED LANDING / GO-AROUND

Throttle	. FULL FORWARD
Speed	
Flaps	FLAPS 1
Trim	
Climb	\dots V $_Y$ 78 KIAS
Follow T/O Procedure	ς

LANDING

Throttle	CLOSED
Touch-down	MAIN WHEELS
Brakes	AS NEEDED
Flaps	RETRACT

AFTER LANDING

FlapsRETRACTED Engine SpeedSET
Taxi with walking speed!
Landing-/Taxi-Light
Pitot Heat OFF
AUX Fuel PumpOFF

SHUTDOWN

MODULE
Parking Brake SET Landin-/Taxi-Light OFF Propeller Control FINE Engine Speed IDLE Instruments ALL IN LIMITS ALT-C OFF Check Volts M >= 13.4 V! min. 2min COOL-DOWN! Use timer in EFIS! Line A OFF after 2 sec, LAMP: CHECKED ON Line B OFF Main Fuel Pump OFF Avionics OFF EFIS OFF GEN A/B OFF
EFIS
Master OFF
AEOS Locking Pin INSERTED Parking Brake AS REQUIRED

PARKING AND TIE-DOWN

LANE Switches Checked ALL OFF
Master Switch Checked OFF
Parking Brake SET
For short time parking only,
For short time parking only, for long time, use chocks!
Canopy CLOSED & LOCKED
Aircraft SECURED