## **BEFORE ENGINGE START**

Preflight Inspection ... COMPLETED
According to Handbook, Cpt. 4.3
Rudder Pedal Position ... SET
Seat belts ... TIGHTEN
Flight Controls ... CHECKED
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**

Circuit Breakers
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 CLOSED
Strobe Light
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 Lever:
Coolant/Oil Tmp. $<10^{\circ}$ C >= 55%
Coolant/Oil Tmp. >10°C ca. 45%
% as indicated as "T" on MFD.
See HINT and Start Performance Chart
in Handbook Cpt. 4.4.3 on P. 4-8!
ENGINE START:
Hold "Start Power", THEN press "START"
until Eng. fires. Then release
Start-Button and "Start Power".
Throttle IDLE
Oil Pressure
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**

#### **BEFORE TAXIING**

Nav Light (at night) . . . . AS REQUIRED Landing-/Taxi-Light . . . AS REQUIRED A/C moving: Lights 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
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

#### **CONTINUE: ENGINE RUN UP**

## Wastegate/PVC/Lane

Verify 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 Cycle 3 times. Move lever SLOWLY backwards, but fast forward. Throttle . . . . . . . . . IDLE CHECK

## **BEFORE TAKE-OFF**

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

Trhottle . . . . . . . . SET 3000 RPM

#### **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 75 KIAS
Not less than 150 ft AGL
Climb $V_Y$ 78 KIAS

#### **CLIMB**

## **Climbing Speeds**

v<sub>u</sub> best ROC 78 KIAS v<sub>x</sub> 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
Flaps FLAPS 1 Trim
Landing Light
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	
Trim	
Climb	$\dots$ V $_Y$ 78 KIAS
Follow T/O Procedures	5

# LANDING

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

# AFTER LANDING

Flaps RETRACTED Engine Speed SET
Taxi with walking speed!
Landing-/Taxi-Light ON
Pitot Heat OFF
AUX Fuel PumpOFF

# SHUTDOWN

# 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