#### **BEFORE ENGINE START**

Familiarise with HANDBOOK first!

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'.

For usage of external Power, see notes in Handbook Cpt. 4.4.2

## **ENGINE START**

#### **CONTINUE: ENGINE START**

Start Power . . . . . . . . ON (HOLD!) LANE A/B Lamps: | wait till lamps turn OFF MFD Engine 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 Engine fires. Then release Start-Button and "Start Power". Throttle . . . . . . . . . 1700 - 2000 RPM 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

#### **BEFORE TAXIING**

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

## **TAXIING**

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

#### **ENGINE RUN UP**

Parking Brake . . . . . . . . . SET Oil Temperature . . . . . . . MIN 50°C Propeller Control . . . . . FINE fully forwaard 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 Tank . . . . . . . . SIDES SWITCHED

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

- Continues next column!

#### **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 below 150 ft AGL!
Climb

## **CLIMB**

## **Climbing Speeds**

v<sub>u</sub> best ROC 78 KIAS  $v_r$  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:

Increase Power 1... 1. RPM - 2. MAP Decrease Power ↓ . . 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 1517 INHG	
Prop Control MAX. 5000 RPM	
Airspeed90100 KIAS	
Pitot-Heat AS REQUIRED	
Do NOT reduce Throttle to IDLE	
in cold OAT environments!	

# **BEFORE LANDING**

Seat Belt
Flaps FLAPS 1
TrimAS REQUIRED
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 FLAPS 1	
TrimADJUSTED	
Climb	)
Follow T/O Procedures	

# 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

SHOTDOWN
Parking Brake
after 2 sec, LAMP: CHECKED ON
Lane BOFF
Main Fuel PumpOFF
AvionicsOFF
EFIS OFF
GEN A/B OFF
Master OFF
AEPS Locking Pin INSERTED
Parking BrakeAS 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