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

Circuit Breakers
Conf. amber "BACKUP BATT" msg. Conf. CO value 255 ppm, then decr.
Com. Co value 255 ppm, then deci.
Master Switch
Conf. amber "BACKUP BATT" msg.
CAS message OFF
Backup Battery OFF
GEN A/B
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
– Continues next column!

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/0il Tmp. <10 °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

Avionics	
Voltage M CHECKED	
Increasing, nom. 13.8 V	
EFISON	
EFIS Power Source CHECKED	
Verify NOT on internal Battery	
Baro PFD + MFD SET	
StbyEFIS, GTN are synced. MFD isn't!	
Engine Warm-Up:	
2500RPM until oil temp > $50 ^{\circ}\text{C}$.	
Then set throttle to IDLE.	
•	

BEFORE TAXIING

Nav Light (at night) AS REQUIRED A/C moving: Lights 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
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

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 2500 RPM LANF A: OFF Max varu ± 250 RPM (aft. 15 sec.) Check Engine Params in Limits! LANE A: ON (wait 3 sec.) LANF B: OFF Max varu ± 250 RPM (aft. 15 sec.) Check Engine 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 CanopyCLOSED & 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-Off 60 KIAS
Initial Climb 70 KIAS
Flaps retract
Not below 150 ft AGL!
Climb

CLIMB

Climbing Speeds

v_u best ROC 78 KIAS v_r best AOC 63 KIAS

Throttle FULL FORWARD

Prop Control

Set Engine Speed max. 5800 PM 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 25 min, 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
Airspeed	90100 KIAS
Pitot-Heat	AS REQUIRED
Do NOT reduce Throt	tle to IDLE
in cold OAT environm	ents!

BEFORE LANDING

Seat Belt TIGHTENED Cockpit PREPARED Autopilot DISENGAGED Autopilot Switch OFF Throttle AS REQUIRED Speed 83 KIAS Flaps FLAPS 1
Trim AS 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	
Trim	
Climb	\dots V $_Y$ 78 KIAS
Follow T/O Procedure	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

SHOTDOWN
Parking Brake
after 2 sec, LAMP: CHECKED ON
Lane BOFF
Main Fuel PumpOFF
AvionicsOFF
EFIS
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