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
com co raide 255ppm, enem deem
Master Switch
Conf. amber "BACKUP BATT" msg. CAS message OFF
Rackup Rattoru OEE
Backup Battery OFF
GEN A/B
Voltage MMIN. 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/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 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
EFIS
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 ON 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

ENGINE RON OF
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 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 Trhottle SET 3000 RPM

BEFORE TAKE-OFF

Ins	truments	CHECKED
Pit	ot-heat	AS REQUIRED
Flig	ght Controls	CHECKED
Cod	:kpit Canopy Cl	LOSED & LOCKED
Sea	at Belts	TIGHTENED
AEI	PS System	UNLOCKED
S	tore pin in middle co	mpartment
Eng	gine Instruments .	CHECKED
Fla	ps	FLAPS 1
- (ontinues next pag	e!

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:

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 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
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	
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

SHOTDOWN
Parking Brake
Lane AOFF
after 2 sec, LAMP: CHECKED ON
Lane BOFF
Main Fuel PumpOFF
AvionicsOFF
EFIS
GEN A/B OFF
Master 0FF
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