BEFORE ENGINE START

Familiarise with HANDBOOK first! 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'.
For usage of external Power,
see notes in Handbook Cpt. 4.4.2

ENGINE START

Circuit Breakers
Wait for boot sequence.
Check FUEL QTY!
Conf. amber "BACKUP BATT" msg.
Conf. CO value 255 ppm, then decr.
Master Switch
MFD
Conf. amber "BACKUP BATT" msg.
CAS message OFF
Note down Total Hours from MFD!
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
Strobe Light
LANE A / LANE B ON
Main Fuel Pump ON
- Continues next column!
- 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 °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 2000 RPM
Oil Pressure CHECKED
LANE A/B Indicator Lamps OFF
Both LANE SWITCHES remain ON!
Only the Indicator Lamps should go out.
Throttle2500 RPM FOR 10 SEC
To engage/sync generators.
Then back to 2000 RPM
Voltage M / Voltage B 13.4 / 14.0 V

AFTER ENGINE START

Avionics
Increasing, nom. 13.8 V
EFIS
EFIS Power Source CHECKED
Verify NOT on internal Battery
Baro PFD + MFD SET
StbyEFIS, GTN are synced. MFD isn't!

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 BRAKES & STEERING! Ground Control CHECKED Brakes CHECKED Indications CHECKED Attitude/direction: PFD, MFD, stby EFIS

ENGINE RUN UP

Parking Brake SET Landing-/Taxi-Light . . . AS REQUIRED A/C standing still: Lights off! Engine Warm-Up: \mid 2500 RPM until oil temp > 50 °C. Propeller Control FINE Fully forward **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 Main Fuel Pump: ON Fuel Tank SIDES SWITCHED Fuel Pressure.....CHECKED Fuel Tank.....FULLEST TANK - Continues next column!

CONTINUE: ENGINE RUN UP

LANE Checks

Throttle: set to 2500 RPM LANE A Switch: OFF Max. vary ±250 RPM (aft. 15 sec.) Check Engine Params in Limits! LANE A Switch: ON (wait 3 sec.) LANE B Switch: OFF

Max. vary ± 250 RPM (aft. 15 sec.) Check Engine Params in Limits! LANE B Switch: ON (wait 3 sec.)

Propeller Check

BEFORE TAKE-OFF

Instruments
Store pin in middle compartment!
Engine Instruments CHECKED
Autopilot
Autopilot Switch: ON
Engage, for each test
Check if AP can be overpowered!
Check AP Disconnect by:
Any Trim input, AP-Disc. button.
Autopilot Switch OFF
Autopilot Panel LEDs ALL OFF
TrimT/O POSITION
Flaps AS REQUIRED
Flaps 0 recommended.
Flaps 1 also possible - See AFM!

TAKE-OFF

IARE-UFF	
Landing-/Taxi-Light ON Brakes RELEASED Propeller Control FULL FORWARD	
When lined-up:	
Throttle FULL POWER	
Engine Instruments:	
RPM: min. 5700, max. 5800	
Manifold Pressure: within LIMITS	
Manifold Temp: Below 65 °C	
Airspeed Indication COMES ALIVE	
TAKE-OFF SPEEDS	
Nosewheel Unstick 50 KIAS	
Lift-Off 60 KIAS	
Initial Climb 70 KIAS	
Flaps retract	
Not below 150 ft AGL!	
Climb V_Y 78 KIAS	

CRUISE

Fuel Selector

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

CLIMB

Climbing Speeds

 v_y best ROC 78 KIAS v_x best AOC 63 KIAS

Throttle FULL FORWARD

Prop Control

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

DECENT

BEFORE LANDING

Seat BeltTIGHTENEDCockpitPREPAREDAutopilotDISENGAGEDAutopilot SwitchOFFThrottleAS REQUIREDSpeed≤ 83 KIASFlapsFLAPS 1TrimAS REQUIREDLanding LightONAUX PumpON
Flaps FLAPS 2 Speed 65 KIAS Trim AS REQUIRED Propeller Control FINE
Fully forward Throttle SET Approx. 7 inHG, Maint. RPM > 2600

BALKED LANDING / GO-AROUND

ThrottleFULL FORWARD	
Speed 70 KIAS	
Flaps FLAPS 1	
TrimADJUSTED	
Climb V_Y 78 KIAS	
Follow T/O Procedures	

LANDING

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

AFTER LANDING

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

SHUTDOWN

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PARKING AND TIE-DOWN