

PREFLIGHT INTERIOR

| | |
|------------------------|-----------------|
| Papers | aboard+checked |
| Electric Master switch | check off |
| Engine Master switch | check off |
| All Avionics | check off |
| All Electrics | check off |
| Flight controls | check free |
| Foreign object | check |
| Electric Master switch | on |
| Fuel indication | check quantity |
| Pitot static tube+heat | check (outside) |
| Stall warning | check (outside) |
| External lights | check (outside) |
| Electric Master switch | off |

PREFLIGHT EXTERIOR

| | |
|-------------------------|----------------------------------------------|
| Chocks+tie down | check removed |
| Nose gear | check |
| Engine oil | check quantity (min 4,5 lit, max 6 lit.) |
| Gearbox oil | Level within Sight glass |
| Air intakes (5x) | check unobstructed |
| Propeller+spinner | check |
| Fuel sump | drain |
| Left fuel quantity | check visual |
| Left fuel drain | drain |
| Left main gear | check |
| Left wing+aileron+flap | check |
| Tail section | check |
| Right wing+aileron+flap | check |
| Right main gear | check |
| Right fuel drain | drain |
| Right fuel quantity | check visual |
| Antennas | check undamaged |

BEFORE STARTING ENGINE

| | |
|-------------------------------|--------------|
| Pedals | adjust |
| Seat belts | fasten |
| Parking brake | set |
| Circuit breakers | check in |
| Alternate air | check closed |
| Electric Master | on |
| Annunciator Panel/ Eng.Instr. | check |
| Acknowledge button | press |
| Low coolant warning Light | check off |

STARTING ENGINE

| | |
|-------------------------------|--------------------------------------------------|
| ACL | on |
| Power lever | check Idle |
| Engine Master | on |
| Glow indication | extinguished |
| Propeller area | clear |
| Electric Master | start |
| Oil pressure | check |
| Warm up | Idle (2 minutes) |
| Warm up continue with 1400RPM | until oil temp > 50°C and coolant temp > 60°C |
| Annunciator Panel/ Eng.Instr. | check |

BEFORE TAXI CHECK

| | |
|---------------|----------------------|
| Avionics | on+set for departure |
| Electric | on as required |
| Wing flaps | full travel to check |
| Gyros | set |
| Elevator trim | set |
| Altimeters | set+compare |
| Parking brake | release |

TAXI CHECK

| | |
|--------------------|-------|
| Brakes | check |
| Flight instruments | check |

BEFORE TAKE OFF CHECK

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Parking brake | Set |
| Engine instruments | check green range |
| Power lever | idle |
| ECU test | press and hold |
| Control lights: ECU A, B- flashing, ECU A Caution – flashing, Prop RPM – cycling, ECU B Caution flashing, Prop RPM – cycling, Control lights extinguished, RPM 900 stabilized | |
| ECU Test | disengage |
| ECU swap | Set ECU B |
| ECU swap | Set Auto |
| Alternate air | check as required |
| Wing flaps | set T/O |
| Flight controls | check free |
| Trim indicator | set neutral |
| Canopy front+aft | latch+check warn.light |
| Seat belts | tighten |
| Departure briefing | completed |
| T/O briefing | completed |

LINE UP AND TAKE OFF CHECK

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|---------------|-------------|
| Transponder | set ALT |
| Runway | identify |
| Pitot heat | as required |
| Landing light | as required |
| Time | check |

| | |
|---------------------------|-----------------------------------------|
| Power lever full forward | RPM 2240 – 2300 Load Ind. 90 – 100 % |
| Rotate | 54/55/59 KIAS Vr |
| Initial climb (flaps T/O) | 59/60/66 KIAS Vy |

CLIMB CHECK

| | |
|-------------------------|---------------|
| Climb power | Max. |
| Wing flaps | up |
| Landing light | off |
| Best rate Vy (flaps UP) | 78/78/78 KIAS |

CRUISE CHECK

| | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Altimeters | set+compared |
| Power (e.g. at ISA Std. , 10000ft) | 50%, 4,0 Gal/h, 112 KTAS 60%, 4,9 Gal/h, 123 KTAS 70%, 5,8 Gal/h, 132 KTAS 80%, 6,8 Gal/h, 140 KTAS |
| Trim | as required |
| Fuel transfer | repeat as required |

DESCENT CHECK

| | |
|---------------|-------------|
| Seat belts | tighten |
| Fuel quantity | checked |
| Power | as required |

APPROACH CHECK

| | |
|-------------------|-----------------|
| Landing light | as required |
| Altimeters | set QNH+compare |
| Approach briefing | completed |
| Wing flaps | as required |

FINAL CHECK

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|---------------------------|-------------|
| Brakes | checked |
| Wing flaps below 108 KIAS | as required |

Maneuvering speed:

94 KIAS (780-980 kg)
 108 KIAS (981-1150 kg)

AFTER LANDING CHECK

| | |
|---------------|-------------|
| Alternate air | off |
| Time | check |
| Transponder | standby |
| Wing flaps | retract |
| Pitot heat | off |
| Landing light | as required |

PARKING CHECK

| | |
|---------------------------|-------------------|
| Power lever | Idle, min. 2 min. |
| All Avionics and Electric | off |
| Engine Master | off |
| ACL | off |
| Electric Master switch | off |
| Interior light | check off |

| KIAS / GROSSWEIGHT | 980 kg | 1000 kg | 1150 kg |
|---------------------------|--------|---------|---------|
| Rotate Vr | 54 | 55 | 59 |
| Best rate Vy (flaps T/O) | 59 | 60 | 66 |
| Best rate Vy (flaps UP) | 78 | 78 | 78 |
| Cruise climb | | | |
| Flaps T/O | 108 | 108 | 108 |
| Flaps LDG Vfe | 91 | 91 | 91 |
| Final Vat | 63 | 63 | 71 |

