

**BEFORE START**

External Visit ..... Complete  
 Luggages ..... Secure  
 Door ..... Closed/Unlocked  
 Seat-Belts ..... Fastened  
 Tow Bar ..... On-board  
 3 Static Covers.....On-board  
 Acft/Pilot Docs ..... On-board  
 Hobbs meter ..... Noted  
 Fuses/Breakers..... Check  
 Parking Brake ..... Set  
 Trim ..... FWD AFTW Check  
 Fuel selector ..... Open  
 Flaps ..... Up  
 Departure Brief ..... Complete

**ENGINE START**

Battery ..... On  
 Anti-col ..... On  
 Anunciator Panel ..... Test  
 Oil Pressure Light ..... Check On  
 Engine Instr ..... Check  
 Mixture ..... Full Rich  
 Carb Heat ..... Off  
 Fuel Pump ..... On  
 Prime ..... As Req  
 Throttle ..... 1/2 cm  
 Magneto ..... Left or Both  
 Prop Area ..... Clear  
 Starter(max10sec) ..... Engage

**AFTER START**

Oil Press..... Check  
 Magneto ..... Both  
 Throttle ..... 1200 RPM  
 Fuel Pump ..... Off  
 Fuel Press ..... Check  
 Alternator ..... On  
 Battery Load ..... Check  
 Door..... Closed/Locked  
 Seat-Belts ..... Fastened  
 Radio/Com/Nav ..... Set  
 Gyro Depr ..... Check  
 Horizon ..... Set  
 Directionnal Gyro ..... Set

**TAXI**

ATC ..... Taxi  
 Taxi Lights ..... On  
 Brakes ..... Check R/L  
 Gyro Instruments ..... Check

**RUN UP**

Parking Brake..... Set  
 Oil temp ..... Check  
 Oil Press ..... Check  
 Fuel Press..... Check  
 Throttle ..... 1800 RPM  
 Magnetos ..... Max125rpm  
 Carb Heat ..... Check  
 Throttle..... Idle(650Rpm)  
 Throttle..... 1200 RPM

**BEFORE TAKE OFF**

Flight Controls ..... Check  
 Flaps..... Up or App  
 Fuel Selector ..... Open  
 Trim..... TO Position  
 Oil Press ..... Check  
 Oil Temp ..... Green  
 Battery Load..... Check  
 Magnetos ..... BOTH  
 Battery ..... On  
 Mixture ..... Full Rich  
 Carb Heat ..... Off  
 Fuel Pump..... On  
 Fuel Gauge ..... Check  
 Door..... Closed/Locked  
 Seat-Belts..... Fastened  
 TO Briefing ..... Complete  
 ATC ..... Line Up

**LINE UP**

Landing Lighs ..... On  
 Squawk ..... Alti  
 RWY HDG..... QFU Set  
 ATC ..... Take Off  
 Chrono ..... Top

**TAKE OFF**

Power(2250mini) ..... Check  
 Annunciator Panel ..... Check  
 Rotate ..... 110km/h 60kt

**AFTER TAKE OFF**

Altitude ..... 300 ft AGL  
 Flaps ..... Up  
 Fuel Pump ..... Off  
 Altimeters ..... Set

**CRUISE**

Cruise Power ..... Set  
 Mixture ..... Leaned  
 Directionnal..... Set  
 Altimeters ..... Set

**DESCENT**

Approach Brief ..... Complete  
 Altimeters ..... Set  
 Mixture ..... Full Rich  
 Carb Heat ..... As Req  
 Seat-Belts..... Fastened

**APPROACH**

Flaps ..... Approach  
 Fuel Pump ..... On  
 Carb Heat..... As Req

**LANDING**

Vref ..... Check  
 Flaps..... LDG  
 Power..... Set  
 Mixture..... Full Rich  
 Carb Heat ..... On  
 Fuel Pump ..... On  
 LDG Lights..... On

**GO-AROUND**

TO Power ..... Set  
 Carb Heat ..... Off  
 Flaps ..... App

**AFTER LANDING**

ATC ..... RWY Vacated  
 Fuel Pump ..... Off  
 LDG Lights ..... Off  
 Flaps ..... Up  
 Carb Heat ..... Off  
 Squawk ..... STBY

**PARKING**

Parking Brake ..... Set  
 RadioCom/Nav ..... Off  
 Throttle ..... 900RPM  
 Magnetos ..... Check  
 Throttle ..... 1200RPM  
 Mixture ..... Cut-Off  
 Magnetos/Keys..... Off  
 AntiCol ..... Off  
 Battery/Alternator ..... Off  
 Flaps ..... LDG  
 HobbsMeter ..... Noted  
 3 StaticCovers ..... Check  
 Door ..... Secure  
 Parking Break..... Released

**TAKE OFF ENGINE FAILURE**

*(RWY Available)*

- Throttle..... Idle
- Break s..... Applied
- Nose ..... Up
- Flaps ..... Up
- Mixture ..... Cut-Off
- Magnetos..... Off
- Battery ..... Off

**INITIAL CLB ENG FAILURE**

- Glide Speed ..... 140 km/h
- Fuel Selector ..... Open
- Mixture..... Full Rich
- Flaps ..... As req

*Land straight ahead within 20 °  
Right or left of the RWY Axis*

**OIL PRESSURE LOSS**

*(Red Zone)*

- 1- Oil Pressure Low
- Oil Temp Normal
- *divert to check the gauge*

- 2 - Oil pressure Low
- Oil Temp High
- Throttle ..... As Low as Possible
- Carb Heat..... If Req
- Oil Temp ..... Check
- Alternator ..... Off
- Current Consumption .... Limited

*Be aware of a poss. Emerg. LDG*

**INFLIGHT ENGINE FAILURE**

*Try to restart engine*

- Ref Speed ..... 145 km/h
- Fuel Selector ..... Open
- Fuel Pump..... On
- Carb Heat ..... On
- Mixture..... Full Rich
- Throttle ..... 2 cm
- Starter ..... If req

*If restart doesn't work*

- Fuel Selector ..... Off
- Throttle ..... Full Open
- Mixture..... Cut Off
- Cabin Heat/Vent..... Off
- Battery ..... Off Before LDG
- Alternator ..... Off Before LDG
- Glide Speed ..... 145 Km/h

**GROUND ENGINE FIRE**

- Starter ..... Keep it Engaged
- Fuel Selector ..... Off
- Fuel Pump ..... Off
- Throttle..... Fully Open
- Mixture ..... Cut-Off

*If still burning*

- Magnetos ..... Off
- Battery /Alternator ..... Off
- Evacuate And Use Extinguishers*

**CABIN FIRE**

- Fire ..... Put It out
- Land ..... As soon as Poss
- Cabin Vent ..... Open
- Prepare an Emergency Landing*

**ELECTRIC FIRE**

- Cabin Vent ..... Off
- Alternator/Battery..... Off
- Breakers Bat/Alt ..... Off

**EMERGENCY LANDING**

- Glide Speed ..... 145 km/h
- ATC..... Mayday
- Squawk ..... 7700 Set
- Fuel Selector ..... Off
- Mixture ..... Cut Off
- Alt/Bat ..... Off
- Throttle..... Idle
- Flaps ..... As req
- Seat Belts ..... Fastened
- Pax ..... Briefed
- Canopy ..... Unlocked
- Short Final Speed ..... 110km/h

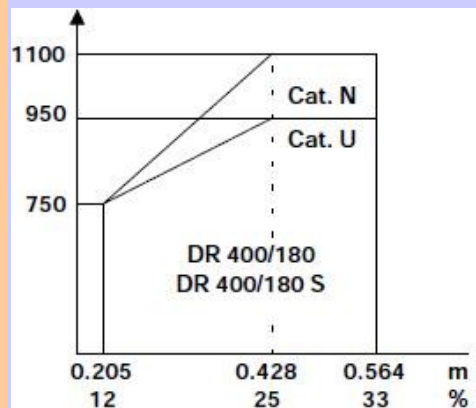
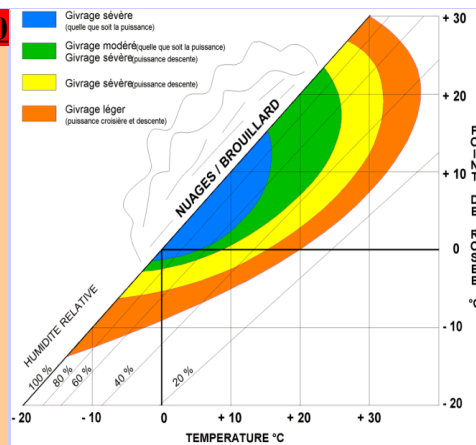
**ALTERNATOR FAILURE**

*Disconnect and reconnect it and  
If it doesn't work :*

- Alternator ..... Off
- Electric Consumption..... Limited
- *Divert to Another AD*

**RADIO-COM FAILURE**

- Headsets and Plugs ... Check
- Radio-Com rack ..... Check
- ATC ..... Blind Message (2x)
- Squawk ..... 7600 Set
- *Alternate AD Selected*



**Main Speeds and Perfs**

**DR400-180**

- Vne = 308 km/h 166 kt
- Vno = 260 km/h 140 kt
- Vc = 260 km/h 140 kt
- Va = 215 km/h 116 kt
- Vfe = 170 km/h 91 kt
- Vs = 105 km/h 56 kt
- Vs1 = 100 km/h 54 kt
- Vs0 = 95 km/h 51 kt
- TOD (SL & ISA)..... 610 m
- LDG(SL & ISA)..... 530 m
- Cruise Conso (leaned) ..... 38 l/h
- Autonomy(110+40+40) ..... 4h30
- Max CrossWind ..... 22 kt
- MTOW ..... 1100 kg
- MLW ..... 1045 kg

**Average Fuel Conso**

5"	31	35"	221
10"	61	40"	251
15"	101	45"	291
20"	131	50"	321
25"	161	55"	351
30"	191	60"	381