



AIRCRAFT FLIGHT MANUAL SUPPLEMENT

NIGHT VFR

This supplement includes the information to be provided to the pilot, as required by the certification basis. The information provided supersedes or completes the one of the approved French "Manuel de vol".

This supplement supersedes any existing supplement concerning Night VFR.

Applicability

Aircraft type and model	Manufacturer change
DR400/120 DR400/140B DR400/160 DR400/180 DR400/180R DR400/200R	Dossier d'Evolution Technique DET n°060602R1
DR400/500	Dossier d'Evolution Technique DET n°061204

List of current pages

Pages	Date
1	November 26 th , 2010
2	November 26 th , 2010
3	November 26 th , 2010
4	November 26 th , 2010
5	November 26 th , 2010

Approval

Amendment	Date	Description	Approval
0	December 04 th , 2006	Original issue	EASA.A.C.05014
1	April 16 th , 2007	Insertion of DR400/500	EASA.A.C.05887
2	November 26 th , 2010	Logo of manufacturer	EASA AFM Approval 10033448 20.01.2011



AIRCRAFT FLIGHT MANUAL SUPPLEMENT

The sections of the aircraft flight manual are affected as follows.

SECTION 0. DESCRIPTION

Not affected.

SECTION 1. DESCRIPTION

The DR400/120, DR400/140B, DR400/160, DR400/180, DR400/180R, DR400/200R and DR400/500, equipped with a proper instrument panel lighting, can be used for V.F.R. flight in non-icing condition.

For a night VFR flight, the DR400/120, DR400/140B, DR400/160, DR400/180, DR400/180R, DR400/200R and DR400/500 must be equipped with following required equipment:

Flight and navigation

- one air-speed indicator
- one sensitive adjustable altimeter, with a 1 000 feet (304,80 mètres) per turn scale and with a barometric reference pressure indicator in hectopascal
- one compensable magnetic compass
- one vertical speed indicator (variometre)
- one artificial horizon (attitude gyros)
- a second artificial horizon or a gyroscopic rate-of-turn indicator with and integrated slip indicator (turn and bank indicator) separately supplied from the first artificial horizon
- one slip indicator when the airplane is equipped with two artificial horizons
- one directional gyro
- one VOR or one ADF depending on the planned route or one GPS class A, B or C approved
- one torch
- one set of spare fuses
- a navigation light system
- Strobe lights
- a landing light
- a lighting device for instrument panel and for safety equipment
- a watch displaying hours and minutes
- a night V.F.R. placard

Communication

- VHF radio equipment corresponding to the stipulations in equipments required by the the Air Traffic Authorities.

Surveillance

- Surveillance equipment corresponding to the stipulations in equipments required by the the Air Traffic Authorities.



AIRCRAFT FLIGHT MANUAL SUPPLEMENT

SECTION 2. LIMITATIONS

Limitations of section 2 are not affected by Night VFR flight, except the placard concerning flight conditions which must be replaced by a placard with following text:

<p>THIS AIRCRAFT MUST BE USED FOR <i>NORMAL OR UTILITY</i> FLYING, IN ACCORDANCE WITH THE APPROVED FLIGHT MANUAL. ON THIS AIRCRAFT, ALL INDEXES, MARKINGS AND PLACARDS CORRESPOND TO NORMAL UTILISATION FOR UTILITY OPERATION, REFER TO THE APPROVED FLIGHT MANUAL</p>
<p>SPINS PROHIBITED MANEUVERING SPEED : 215 km/h - 116 kt APPROVED FOR VFR FLIGHT BY DAY AND BY NIGHT IN NON-ICING CONDITIONS NO SMOKING</p>

SECTION 3. EMERGENCY PROCEDURES

The following emergency procedures complete those of the section 3.

Lighting 1 and/or 3/radio failure

- Lighting 2..... on
- Lighting 1 fuse..... verify
- Lighting 3/radio fuse..... verify

If the failure persists, the lighting 2 and the torch can be used as emergency lighting.

Light failure

- Taxi light switch-type circuit breaker verify

Battery failure (not applicable to DR400/135CDI)

If, following a complete battery failure, the alternator deactivates involving loss of power supply, proceed as follows:

- battery, alternator and radio (if installed) circuit breakers..... off
- battery switch on
- alternator switch on

Notice that circuits are supplied again. Reset only the switches necessary to ensure flight safety.



AIRCRAFT FLIGHT MANUAL SUPPLEMENT

SECTION 4. NORMAL PROCEDURES

These procedures complete those of section 4.

Preparation

Study of the meteorological report, in order to avoid flight in dangerous conditions (minima, climbing...).

Verify that fuel and oil quantities comply with regulations.

Before flight

Verify operation of:

- Strobe lights..... verify
- Navigation lights verify
- Landing light verify
- Taxi light verify
- Lighting 2 verify
- Lighting 1 verify
- Day/night selector switch verify
- Emergency torch on board verify

Lighting

- Switch on lighting 2
- Adjust with lighting 1 if necessary

Taxiing

- Strobe lights..... on
- Navigation lights on
- Landing light on
- Gyro instruments verify operation
- Artificial horizonpitch index setting
- Directional gyro.....correct rotation
- Turn and bank indicator correct movement

Before take-off

- Vacuum indication check
- VHFtest
- VOR or ADFtest
- Heating defrost as necessary
- Landing light on

Aligning

- Directional gyro setting

Take-off

- Maintain positive climb on rate of climb indicator.
- Switch off taxi and landing lights at the end of the runway.



AIRCRAFT FLIGHT MANUAL SUPPLEMENT

Climb and cruise

Above 8000 feet, there is a risk of disturbance in the pilot's night vision.

Landing

- Landing light..... on
- Taxi light..... on

After engine shut down

- Light off

SECTION 5. PERFORMANCE

Not affected

SECTION 6. WEIGHT AND BALANCE

Not affected

SECTION 7. OPTIONAL EQUIPMENT

Any "VFR flight" supplement is cancelled and replaced by this supplement.



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