

aerobask
Robin DR401 CDI 155



Owner's Manual



FOR SIMULATION ONLY!
DO NOT USE FOR REAL FLIGHT!

WELCOME ABOARD !

The DR401 is a french aircraft manufactured by Robin Aircraft.

We choose to model the 155 CDI version.

Aerobask is pleased to provide this aircraft for free to the X-Plane community.

We wish you happy flights !

Main features:

- **Flight model** tweaked by X-Aerodynamics, based on public data.
- **Integrated Laminar Garmin G1000.**
- **Functional virtual 3D cockpit.**
- High quality 3D model with high resolution **PBR** textures (4K) dedicated to X-Plane 11.
- **FMOD Enhanced 3D system sounds.**

Lionel Zamouth
Stéphane Buon

Cameron Garner,
<http://www.x-aerodynamics.com/>

FMOD Sound Design
by Daniela Rodríguez Careri

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REQUIREMENTS & INSTALLATION

Installation

The Aerobask DR401 requires **X-Plane 11.20+**.

Unzip the downloaded file and copy the directory into the "XP11/Aircraft/Aerobask" folder of your X-Plane installation (you may need to create the Aerobask folder)

Performance Optimization

Note :

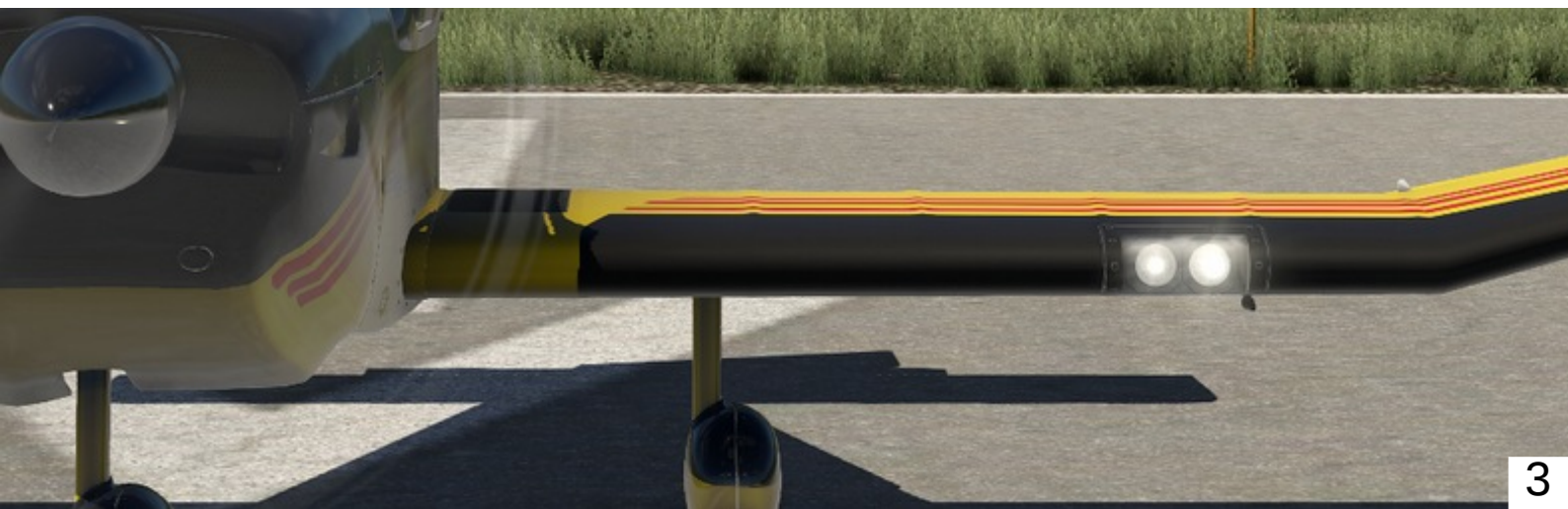
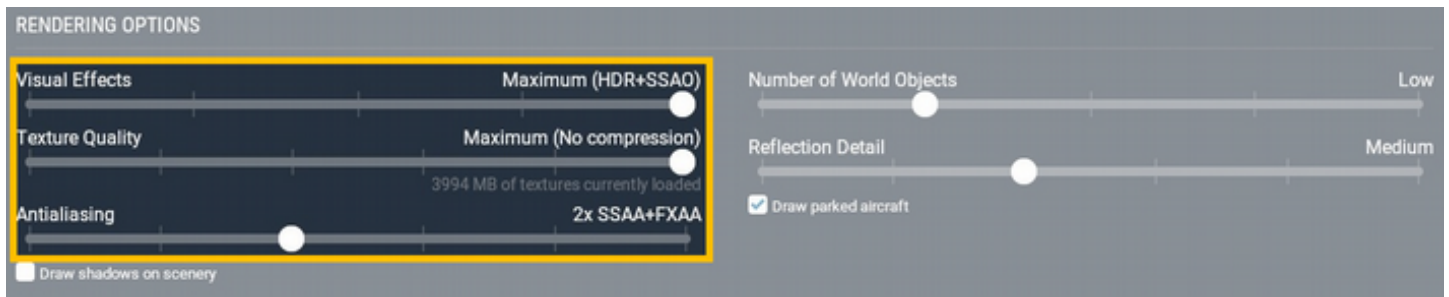
- **HDR** must be activated in graphics options.

This product has been optimized for good performance. However, the aircraft uses several high definition textures (4K) for a high graphical quality.

For a great experience, we recommend a graphic card with at least 4 GB of VRAM.

If you use AI planes, select only default aircrafts to avoid conflicts or incompatibilities.

Recommended settings:





Source : <http://www.robin-aircraft.com/en/our-planes/dr401-155cdi/>

<div>  </div>		JET-A1	
		135CDI	155CDI
Cruise speed eco kts		120	122
Cruise speed max kts		122	132
Climb Rate (ASML) ISA fp/m		680	740
Climb Rate (8000fts) ISA fp/m		520	656
Payload max kilos		980	1 100
Take-off distance (50fts) Ofts ISA Meters		440	400
Landing distance (50fts) Ofts ISA Meters		507	415
Useful Load kilos		360	440
Useful load 1500km kilos		260	326
Useful load - Full tanks kilos		226	306
Nb passengers with full tanks 75kg/pax		3,0	4,1
Flying range km		1 695	1 654
Fuel tank (long range) Litres		159	159
Wingspan Meters		8.72	8.72
Max operating heigth fts		14 500	16 000
Fuel cons. (75%) Litres / h		21.2	23.5

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GARMIN G1000 by Laminar Research

This aircraft is equipped with the new Laminar's G1000.

The Garmin G1000 is an advanced integrated flight instrument system that comprises two display units, serving as primary flight display, and multi-function display respectively. When combined, these units present flight instrumentation, position, navigation, communication and identification information to the pilot, replacing conventional flight instruments and avionics.

For details on the Laminar Research G1000, please refer to the X-Plane G1000 manual. You find it the XP11/Instructions directory.



PANEL OVERVIEW



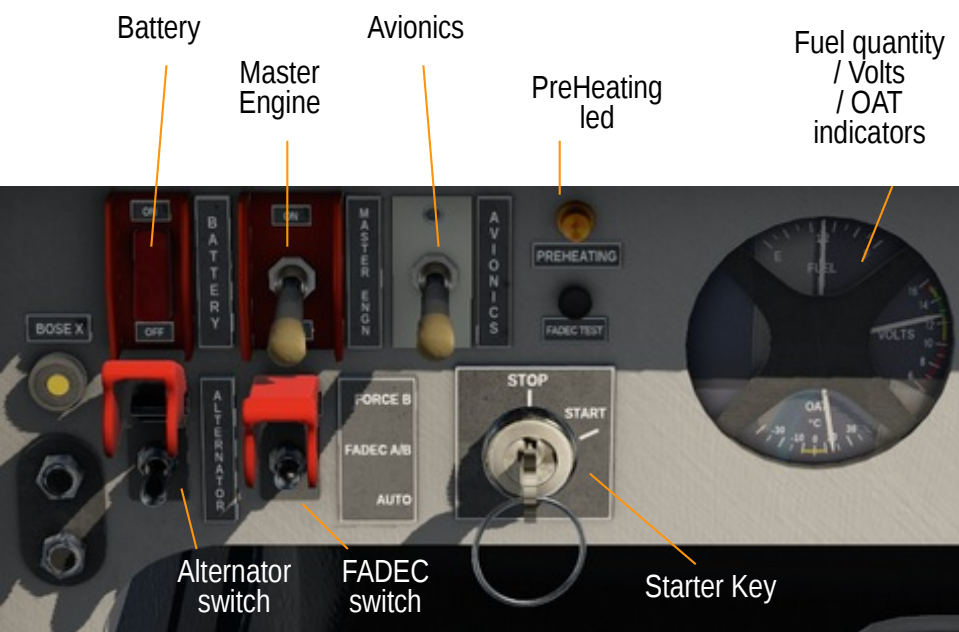
External sound control (via the mouse wheel)

Throttle

Parkbrakes

Fuel Selector

External sound control (via the mouse wheel)



FADEC Switch:
Only the AUTO position is currently functional.

EXTENDED RANGE TANK

The optional tank is located in the fuselage, aft of the rear seat. The fuel from the optional tank can be transferred into the main tank by pulling the transfer valve control, located on the instrument panel.

Note :

The main fuel tank must be empty enough to receive full quantity from the optional fuel tank.



Tank handle

FUEL QUANTITY



Main tank

Auxiliary tank

CHOCKS

The chocks are automatically removed when the battery is enabled.



CANOPY

Click to the handle to open/close the canopy



NORMAL OPERATING SPEEDS

NORMAL PROCEDURES

NORMAL OPERATING SPEEDS

The speeds listed below are indicated airspeeds recommended for normal operation of the aircraft.

These speeds are based on a standard aircraft, operated at max. Take-off weight, in standard atmosphere and at sea level. They may vary from one aircraft to another depending on the equipment installed, the conditions of the aircraft and of the engine, the atmospheric conditions and the skills of the pilot.

Best rate of climb speed

Flaps in takeoff position (1st notch) (65 KIAS) 120 km/h

Flaps up (78 KIAS) 145 km/h

Maximum operating speed in turbulent air

Flaps up (140 KIAS) 260 km/h

Never exceed speed

Flaps up (146 KIAS) 270 km/h

Maximum speed

Flaps in landing position (2nd notch) (92 KIAS) 170 km/h

Landing speed, final approach

Flaps in landing position (2nd notch) (65 KIAS) 120 km/h



Credits

Aircraft:

Stéphane Buon (modelling, texturing)
Lionel Zamouth (scripting)
Cameron Garner (flight model)
Daniela Rodríguez Careri (FMOD sound design)

Liveries

Jean-François Edange (liveries)

Owner's Manual
template:

Mario Donick

Some 3D objects from BARANGER Emmanuel (helijah)

Many thanks to all our beta-testers!

