ATSimulations Colomban MC-15 "Cri-Cri"

User manual

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Introduction

Colomban Cri-Cri is the smallest twin engine aircraft. It's strange that we didn't have good model of for Flight Simulator platforms. Until now! Glad to present you high quality product done with all modern modeling rules of add-ons development. Amazing textures resolution, bumps, reflections and specular maps. Detailed hi-poly exterior and virtual cockpit. Gauges done with 3d parts and smoothly animated. Realistic pilot's movements. And so on!

During the development I was really surprised how cool this plane is. In spite of its funny look, this is serious machine. Totally aluminum, rare airfoil, falling ailerons, self rotating stabilizer. If you want to build it, it will not be easy to find materials (special metal, special foam etc.) besides you'll need a lot of special tools. Aircraft have outstanding flying characteristics for it's size.

I'm sure you'll spend time having fun with Cri-Cri in your favorite simulator whatever it is FSX or P3D now but I have plans to convert model into X-Plane and Outerra.

I'm open for any partnership and feedback with this project or any other in future. Contacts could be found at the end of this manual.

Have fun with ATSimulations Colomban Cri-Cri !

Andrey Tsvirenko © ATSimulations

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System requirements

- ✓   Windows XP SP3/Vista/7
- ✓   FSX SP2 / Acceleration pack or FSX SE or P3D v3 (v4)
- ✓   4096 MB Ram
- ✓   Processor: 3 GHz
- ✓   Available hard drive space: 1.5 GB (for one platform)
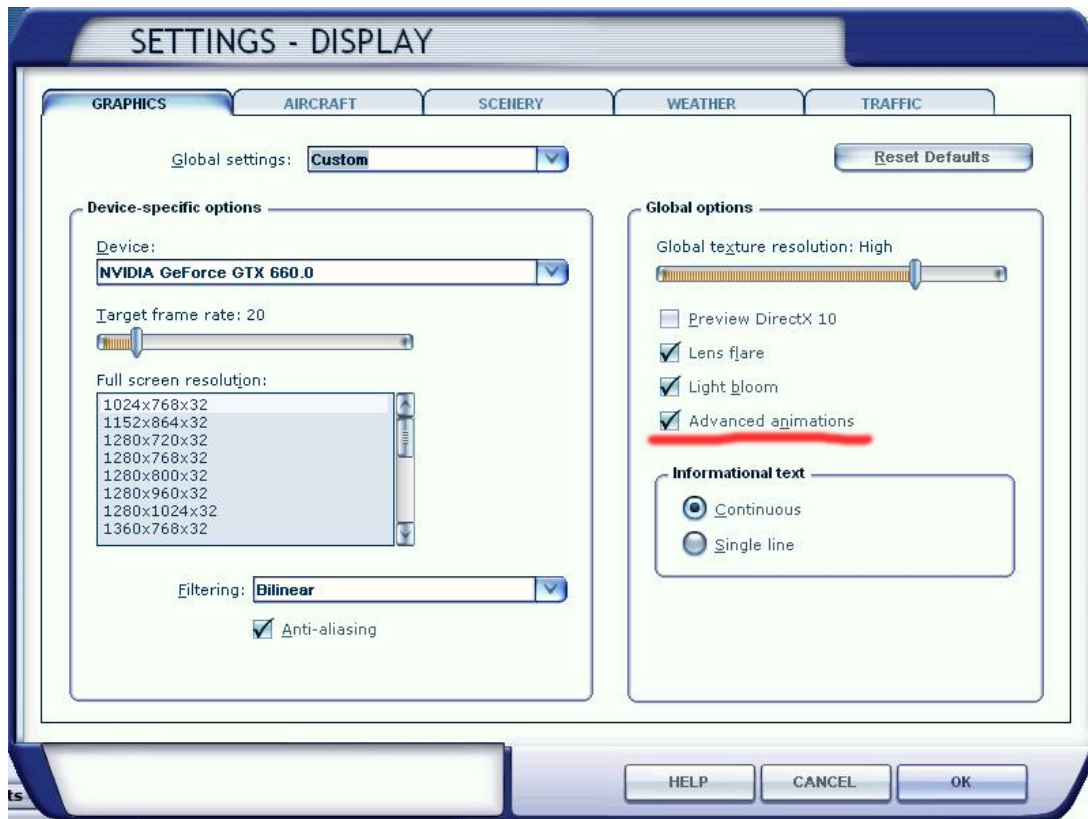- ✓   Video card: DirectX 10 compatible

- ✓   Accurate exterior an virtual cockpit 3d models done in 3dsmax
- ✓   Ultra high resolution textures. Three 4096x4096p exterior defuse maps
- ✓   Specular, reflections and bump maps

Product features

- ✓   Layered paint kit textures
- ✓   Ultra smooth gauges developed in 3d
- ✓   Shadows from needles, dynamic reflections on gauges glass
- ✓   FPS friendly
- ✓   Unique sound of two stroke JPX PUL 212 engines

FSX and P3D settings

Please set checkbox "advanced animation" on. Pilot and gear animation will not work correctly without it. P3D use it by default.

Aircraft history

The whole story of Cri-Cri airplane, the world's smallest twin-engined aircraft, begun in 1971, when CriCri's aircraft designer Michel Colomban set his goal to build a very small and economical plane powered by two little engines, that would be capable of flying even some aerobatics. They say, that he also wanted not to exceed his budget over 1000 USD including two engines, which was quite hard to believe even in early 70s. Constructional time took around 1500 working hours, spread to couple of years. The plane became reality in 1973 and was given a name after Michel Comomban's daughter, who was also often called 'Cri-Cri'.

Cri-Cri's maiden flight was performed by test pilot Robert Buisson. It took place at 'Guyancourt Airport' on 19th July 1973, just stone's throw from Paris. After some pre-flight landing gear tests, Michel with Robert decided to change CriCri's current two-wheeled gear to more safe three-wheeled gear. Later on, everything was prepared for take-off. Robert gave it some gas and the aircraft smoothly accelerated to 100 km/hour just within eight seconds and took wing above runway...

Nowadays it's been more than forty years, since Cri-Cri had it's first flight, but CriCri's legend is still living, and I think, it will be living for many future years, because construction of this plane is extremely dateless.

On whole world is now registered more than one hundred-fifty Cri-Cries in many construction versions, with different engines, etc. Majority of them flies in their native country (France). It's over 110 planes, the second country is the USA with over twenty registered planes. The United Kingdom, Germany and Canada is following.

Unfortunately, there is no sign about this gorgeous ultralight homebuilt plane in the middle or Eastern Europe, so probably everyone who built it would become the very first owner in this part of the world, where I came from.

Many people are in love to this plane mainly because of its fantastic combination of 'ultralight plane' dimensions and high performances.
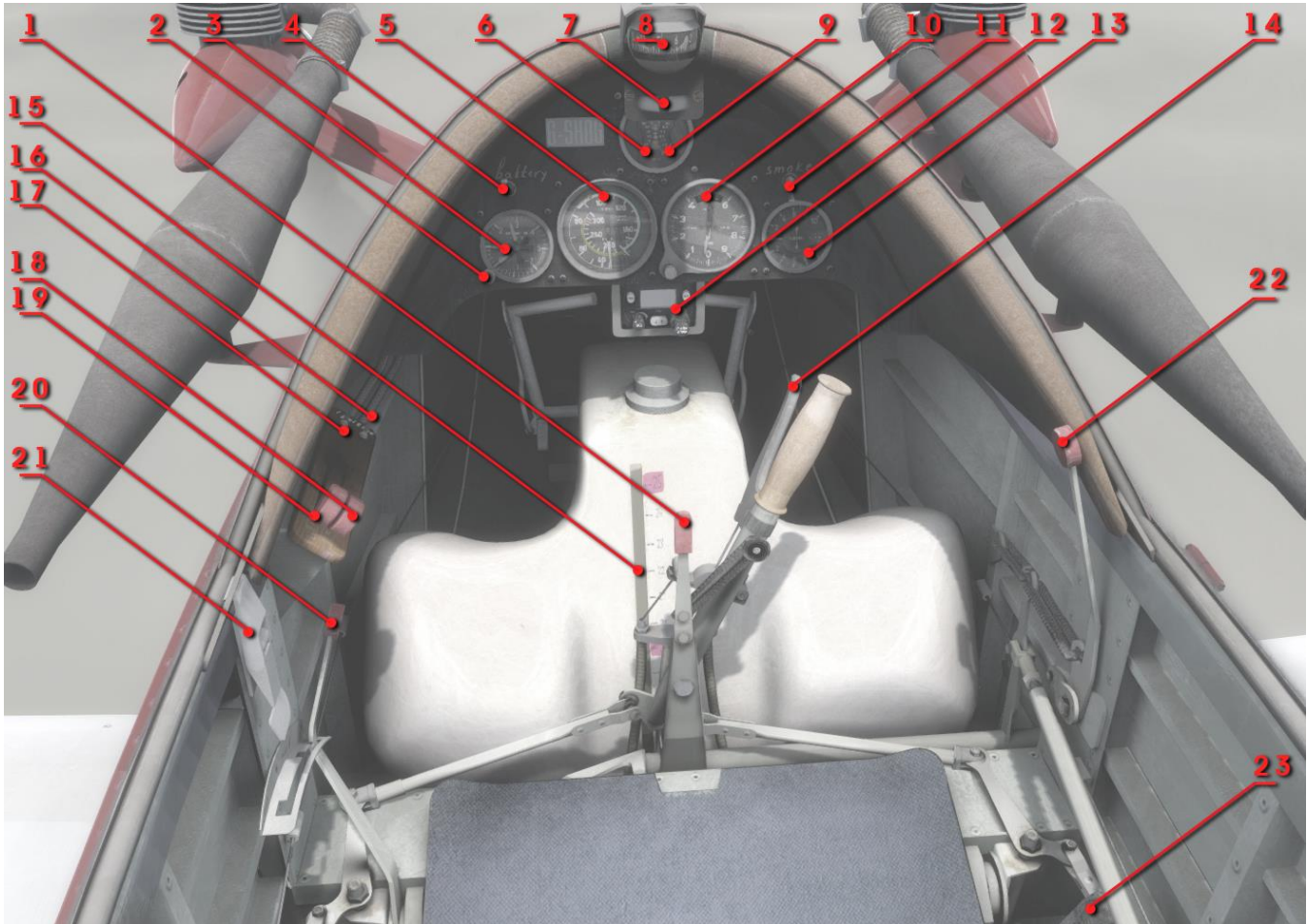
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Specifications

General characteristics

Length:	3.9 m (12 ft 10 in)
Wingspan:	4.9 m (16 ft 1 in)
Wing area:	3.1 m^2 (33 sq ft)
Airfoil:	Wortmann 21.7
Empty weight:	78 kg (172 lb)
Max takeoff weight:	170 kg (375 lb)
Powerplant:	2 × JPX PUL 212 single-cylinder 11 kW (15 hp) each
Propellers:	2-bladed

Performance

Maximum speed:	220 km/h (137 mph; 119 kn)
Cruise speed:	185 km/h; 115 mph (100 kn)
Range:	463 km; 288 mi (250 nmi)
Service ceiling:	3,700 m (12,100 ft)
Rate of climb:	6.6 m/s (1,300 ft/min)
Wing loading:	55 kg/m^2 (11 lb/sq ft)

Panel and Controls

1. Aileron trim
2. Gmeter knob
3. Gmeter
4. Battery tumbler
5. Airspeed indicator
6. Left engine RPM
7. Turn and slip indicator
8. Compass
9. Right engine RPM
10. Altitude indicator
11. Smoke tumbler
12. TY91 Radio
13. Vertical speed indicator
14. Brakes lever
15. Fuel indicator
16. Right engine ignition tumbler
17. Left engine ignition tumbler
18. Right engine throttle lever
19. Left engine throttle lever
20. Flaps lever
21. Cockpit door lock
22. Elevator trim lever
23. Map

Contacts

With any questions or offers about this or future projects please contact: atsimulations@gmail.com

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