



ATSimulations Colomban MC-15 "Cri-Cri"

User manual

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Introduction

Colomban Cri-Cri is the smallest twin engine aircraft. 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.

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.

We are 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

November 2020

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System requirements

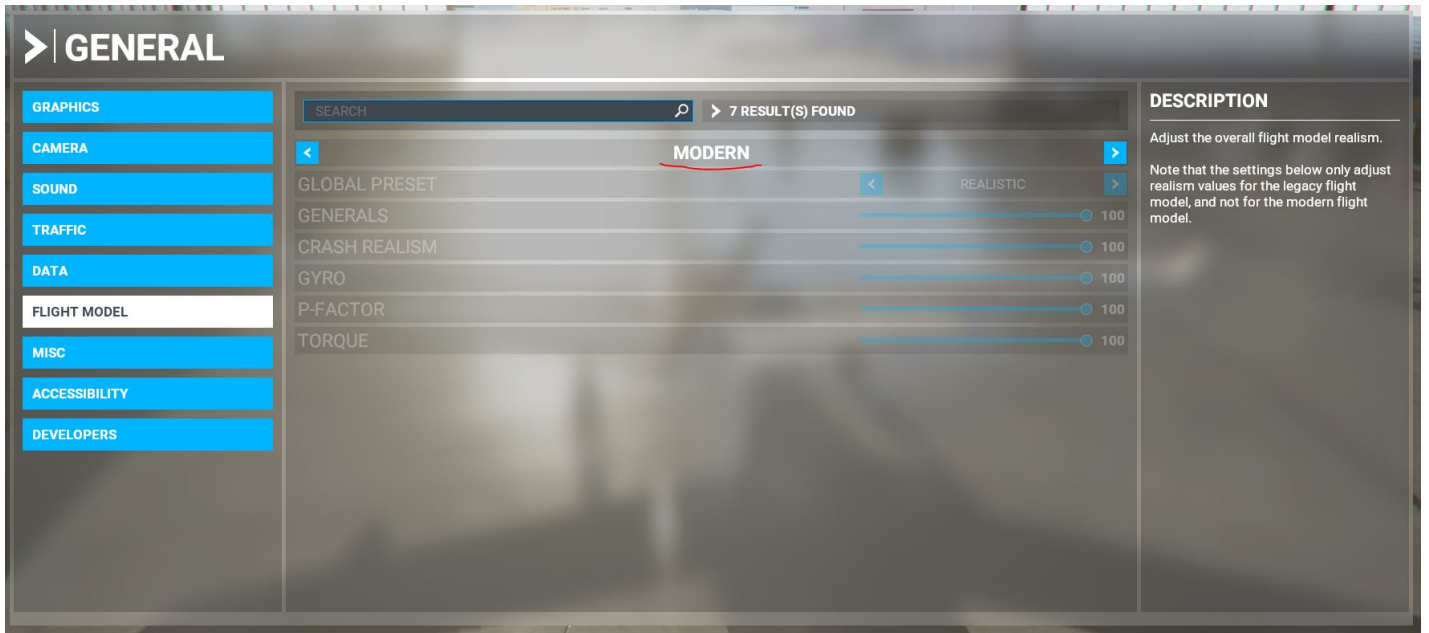
- ✓ Microsoft Flight Simulator v1.11.10.0 or higher installed and running
- ✓ Available hard drive space: 1.5 GB

Product features

- ✓ Accurate exterior and virtual cockpit 3D models done in 3dsmax
- ✓ Ultra high resolution textures. Three 4096x4096p exterior diffuse maps
- ✓ Layered paint kit textures
- ✓ FPS friendly
- ✓ Unique sound of two stroke JPX PUL 212 engines

FMSFS Flight Dynamics settings

"MODERN" flight dynamics settings is very recommended.



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...

ATSimulations MC-15 "Cri-Cri" for MSFS

Nowadays it's been more than forty years, since Cri-Cri had its first flight, but Cri-Cri'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

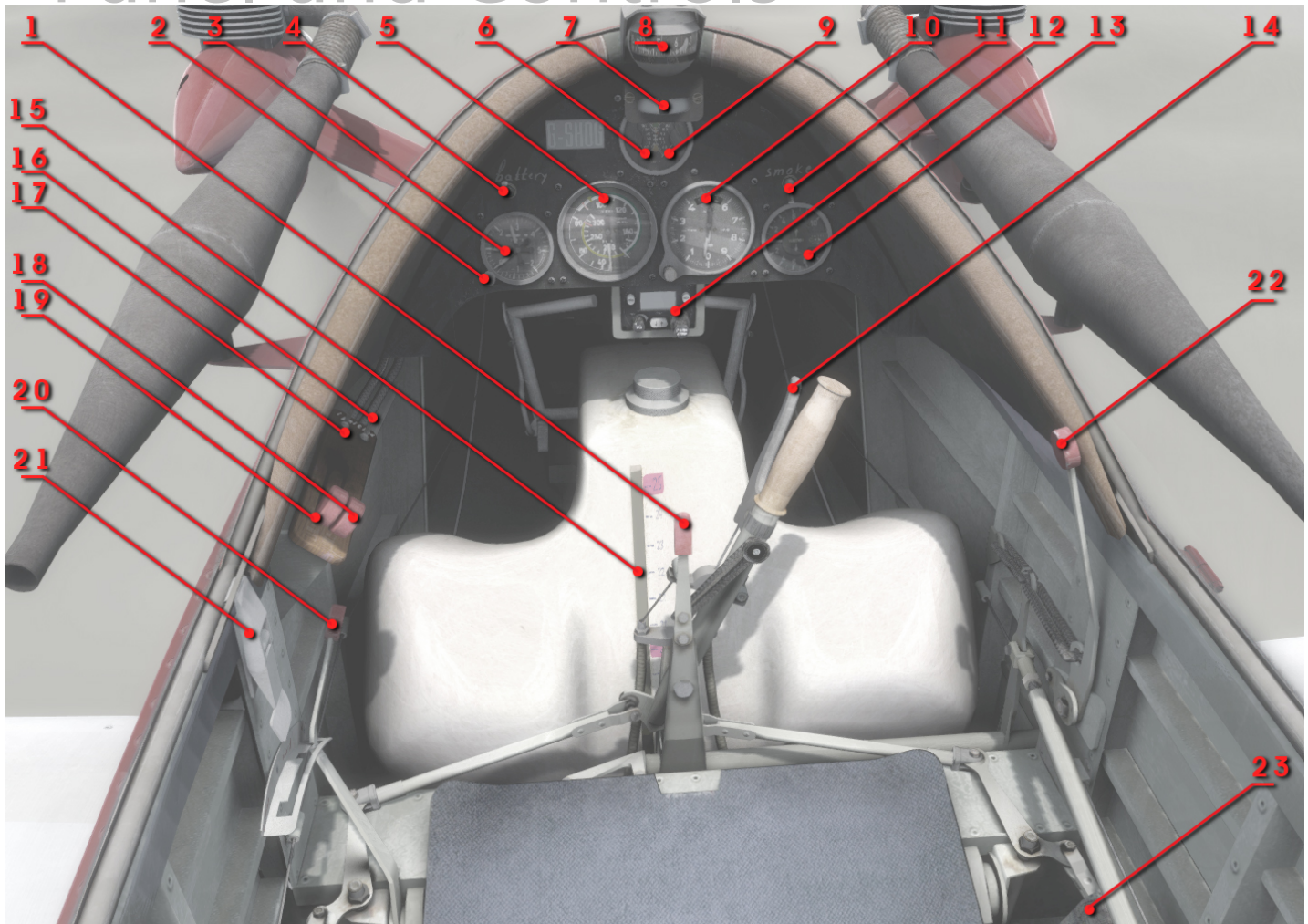
General characteristics

Length: 3.9 m (12 ft 10 in)
Wingspan: 4.9 m (16 ft 1 in)
Wing area: 3.1 m² (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/m² (11 lb/sq ft)

Panel and Controls



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

Contacts

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

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