

MCR-01 Ultralight

AFS-design



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Summary

AFS-design brings an excellent rendition of Dyn'Aero MCR-01 Ultralight.

The MCR 01 Sportster ULC(LSA) Ultralight is a side by side two-seater airplane with incredible performance and capability. Fast and agile, the VLA was specially designed to reach top speed while providing the most enjoyable experience to pilots

The MCR 01 is a very high performance aircraft, that can cruise as fast as 300 km/h with only a 100 hp engine, at very low cost. Thanks to the highest level of technology available, and very light material, the Sportster has a very efficient direct control system that guarantees the same satisfaction as flying a fighter jet.

The MCR 01 has been designed around high safety standards and wings efficiency, providing both extreme exhibility and easy flight characteristics. Equipped with a 80 HP engine and a fix pitch propeller, it is the ideal airplane for intensive use in flight school operations or aviation clubs. With a 100 HP engine and a constant speed propeller, it becomes an efficient high performance airplane combining fast cruising speed and easy handle characteristics

The MCR 01 characteristics lie in its unique wing design, involving a greater span and area, as well as split double slotted fowler flaps and ailerons. This sophisticated wing concept allows the MCR 01 to reach an unprecedented maximum to stall speed ratio of 4, although it guarantees a very gentle behavior in rough air conditions and a high safety level.

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1. The MCR-01 Ultralight of AFS-design

7 different visual models covering the Aero Light Club Strausberg-Berlin, Germany.

Private textures of France, United Kingdom, Switzerland, Austria, Germany, Canada, United States and more...

2 different mask 1 for repainter - make your own model of MCR !!

New Model of authentic MCR - Dyn'Aero support !

New Sound of real MCR-01 with authentic start engine sound !

Panel is complete and full in function with AFS-design - XML gauges: gps_500, Bendix-King Radio Xpndr, Altimeter, Vertical Speed, RPM Indicator, Fuel, Oil, Temperature, Pitch Trim, Clock, Flaps, Libelle, Airspeedkn, Fuelpump, Lightnavigation, Lightstrobe, Intercom, starter lock, Compass, Attitude and many other gauges...

High detail textures with realistic effects, reflective areas, specular shine and accurate external lighting. A complete 3D virtual cockpit featuring animated control surfaces, custom gauges, night lighting, high textures, fully interactive and more...

New animations feature in external model and virtual cockpit are: detailed landing gear, rolling wheels, steerable nosegear, canopy, pilot ladder, strobe and navigation lights, folding wings, realistic propeller effect on full power, brake parachute AND virtual cockpit and many more...

Detailed and easy to fly flight model with auto-trim and real animations feature of flaps and canard wings for aerodynamically unstable

2. System

File Size	16 MB
File Size of hard drive	70 MB
Installation	Execute Setup
Versions of Flight Simulator	FS2004 und FS_X

3. Installation

1. For FSX download the afsMCRX.exe to a temporary directory of your choice.
2. For FS2004 download the afsMCR.exe to a temporary directory of your choice.
3. Please start the afsMCRX.exe or afsMCR.exe and nd install the new AFS-design Eurofighter Typhoon.
4. Than you start the Flight Simulator
5. Choice a flight with Dyn'Aero, AFS-design, MCR-01



4. Keyboard

canopy open / close	Shift E
light on / off	L
wheel brake	.
hand brake	Strg .
change view	S
engine off	Strg, Alt and F1
engine on	Strg E
flaps full lower	F5
flaps full run in	F8
flaps 1 step lower	F6
flaps 1 step run in	F7

5. The Panel



A – compass

B – GPS

C – transponder

D – fuel

E – RPM

F – oil pressure

G – water temperature

H – oil temperature

I – land flaps lower- run in: steps 0°, 15°, 25° and 45°

J – electrical trimming

K – altimeter

L – altimeter per time

M – radio

N – artificial horizon

O – speed indicator (kn or km/h)

P – bank indicator

Q – ignition key

R – main switch

S – intercom

T – petrol pump

U – navigation light switch

V – strobe light switch

W – shock (in simulation mixer)

X – saving system

6. Airspeed

economical cruising speed	180 km/h or 97 kn	3900 U / min*
High cruising speed (because saving system)	250 km/h or 135 kn	4300 U / min*
normal cruising speed (turbulences without)	220 km/h or 118 kn	4100 U/ min*

7. Check list

The check list is not for the real MCR-01. This is for AFS-simulation MCR 01 only.



7.1. engine on

main switch	R	on
GPS	B	Funktion prüfen
transponder	C	Squarke 7000
fuel	D	full ?
petrol pump	T	on
shock (in simulation mixer)	W	push
ignition key	Q	Engine on
petrol pump	T	off

7.2. roll hold check

canoby		close
fuel	D	full ?
oil pressure	F	greener area ?
water temperature	G	greener area ?
oil temperature	H	greener area ?
land flaps	I	check
magnet check	Q	to magnet 1 and 2 adjust, than adjust to both magnet again
land flaps	I	1. step 15° adjust
Intercom	S	on
navigation light switch	U	on
strobe light switch	V	on
petrol pump	T	on
look out plane		Ready for departure ?

7.3. after the departure

fuel	D	check
oil pressure	F	greener area ?
water temperature	G	greener area ?
oil temperature	H	greener area ?
land flaps	I	run in
petrol pump	T	off



7.4. during the flight

fuel	D	check
oil pressure	F	greener area ?
water temperature	G	greener area ?
oil temperature	H	greener area ?

7.5. pre - landing

land flaps	I	1. step 15° adjust
petrol pump	T	on

7.6. engine off

land flaps	I	run in
petrol pump	T	off
ignition key	Q	Engine off
intercom	S	off
navigation light switch	U	off
strobe light switch	V	off
main switch	R	off

7.7. emergency landing to runway

land flaps	I	2. step 25° adjust
petrol pump	T	on

7.8. free emergency landing

land flaps	I	3. step 45° adjust
ignition key	Q	Engine off



8. Right

This product is a Add-On for the Microsoft Flight Simulator. It is build with FS-Design Studio 3, PHP and XML. Please use a licenceversion of the Flight Simulator only.

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