


# PHOTON FOR BREDOK 3D



Eurofighter Typhoon for MSFS  
Version 1.10  
Manual

# FLIGHT PLAN

1. Waypoint 1 : Eurofighter Typhoon : Presentation
2. Waypoint 2 : Start up procedure & specificities
3. Waypoint 3 : Autopilot

# I- EUROFIGHTER TYPHOON : PRESENTATION



## Eurofighter Typhoon

Eurofighter Typhoon is the world's most advanced swing-role combat aircraft providing simultaneously deployable Air-to-Air and Air-to-Surface capabilities.

The Eurofighter Typhoon is a European twin-engine, canard delta wing, multirole fighter.

The Typhoon was designed originally as an air superiority fighter and is manufactured by a consortium of Airbus, BAE Systems and Leonardo that conducts the majority of the project through a joint holding company, Eurofighter Jagdflugzeug GmbH.

NATO Eurofighter and Tornado Management Agency manages the project and is the prime customer.



## BREDOK 3D Eurofighter Typhoon for MSFS

Please *set MODERN flight model inside MSFS setting before use the aircraft!*

This *version 1.10* for Microsoft Flight Simulator features:

- -Top speed >1.400 Knot/GS ~ Mach 2.1 ~ 2.500 Km/H | also to low pass
- -15 500 HP - full throttle
- -GPS mouse interactive Panel
- -FMC Panel
- -HUD Panel
- -2 MFD Panels with Wheater, Terrain, Engine, System, Fuel, Plan
- -PFD Panel
- -Speed Backup Panel
- -Radio Panel
- -Full working Autopilot
- -Reverse throttle
- -Engine start from apron
- -Pushback , Fuel truck , ground power
- -Fixed hangar visibility
- -Fixed duplicated names (EF)
- -Fixed starting from customize position
- - Now ten liveries are available... thanks to [Jiannis Camel](#) and [Benedikt-Frölich](#)

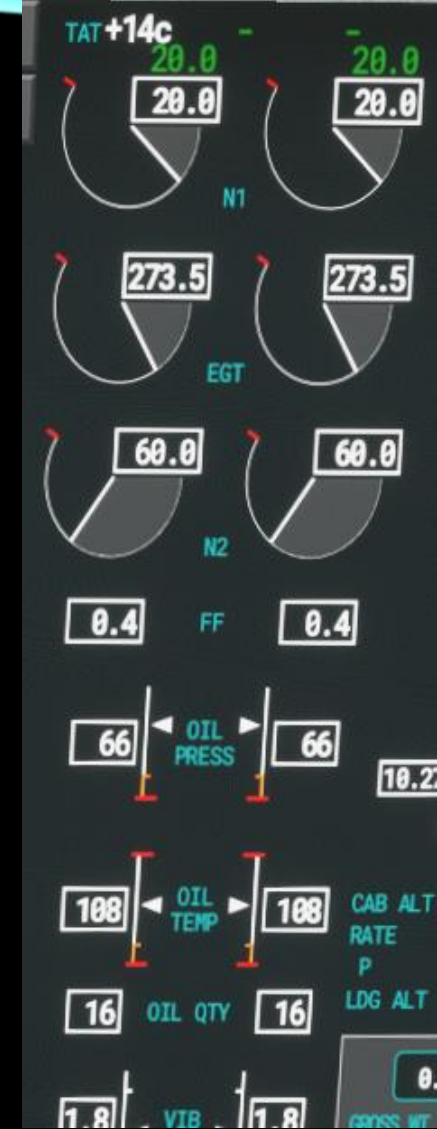


## II- START UP PROCEDURE AND SPECIFICITIES





1. Activate Fuel pump engines 1 (left) & 2 (right) : Buttons 1.1 & 1.2
2. Activate Battery : Button 2
3. Start engine 1 & 2 : Buttons 3.1 & 3.2
4. Wait for N1 ; EGT ; N2 stabilization
5. Deactivate Fuel pump engines (Buttons 1.1 & 1.2)
6. Avionic is ON by default (Button 4)
7. Lights : on demand...
8. Pitot heat : always active for ver. 1.10 (Button 5)
9. Pump 1 or 2 for high mode (Button 6) : no impact (useless for msfs)



Start procedure

That's all = ready for taxi



LEFT :

1. Spoilers
2. Engines CUT OFF Buttons 2.1 & 2.2
3. GEAR  
(Down for landing at speed 250-260 knots...)
4. Reverse throttle :  
use CTRL keybind + throttle...  
(CTRL = toggle reverse mode)



RIGHT :

1. Lateral trim
2. Vertical trim
3. Fire button : why would you want to use it ???





## Stations :

6 stations on this Typh version :

- Pilot
- Instructor : no instructor for this version of Typhoon (0kg)  
But (real) Eurofighter T2 (FGR.4) « Typhoon II » will have one...
- Stations 1 to 6 are coupled :
  - 1 & 6 must have same weight
  - 2 & 5 must have same weight
  - 3 & 4 must have same weight
 if not : big (rolling) problems during flight...



STATION 1	Left side	1000.00 kg
STATION 2		0.00 kg
STATION 3		0.00 kg
STATION 4		0.00 kg
STATION 5		0.00 kg
STATION 6	Right side	0.00 kg



### CARBURANT

L  KG

AFFICHER LE CARBURANT AU FORMAT

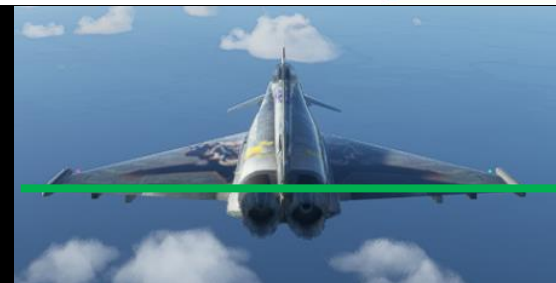
CENTRE 1	<input type="range" value="50.00"/>	50,00%	492.04 L
CENTRE 2	<input type="range" value="50.00"/>	50,00%	378.50 L
^ CHARGE UTILE	<input type="range" value="0.90"/>		0,90%
PILOT			81.64 kg
INSTRUCTOR			0.00 kg

STATION 1	●		0.00 kg
STATION 2	●		0.00 kg
STATION 3	●		0.00 kg
STATION 4	●		0.00 kg
STATION 5	●		0.00 kg
STATION 6	●		0.00 kg

STATION 1	1000.00 kg
STATION 2	0.00 kg
STATION 3	0.00 kg
STATION 4	0.00 kg
STATION 5	0.00 kg
STATION 6	1000.00 kg

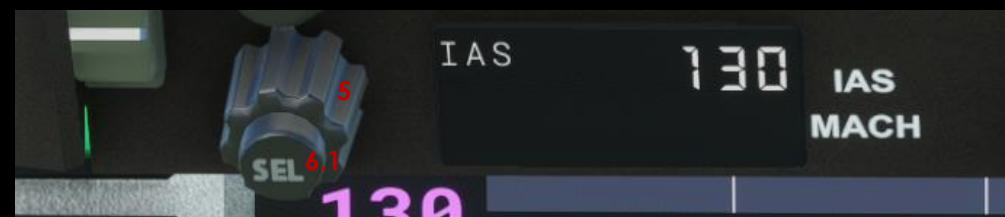
OK!



### III- AUTOPILOT & NAVIGATION SYSTEM



# 1- Without Flight plan / GPS route :



## AP :

- A/P : engage Autopilot (must be active to select HDG...)
- NAV = Lateral Navigation inop because no GPS route
- VNAV = Vertical Navigation inop because no GPS route
- ALT = Altitude Hold works (hold current alt) : **button 10**
- To select an altitude :
  - ✓ turn **1.1 button** to increase / decrease ALT by 1 000 ft
  - ✓ turn **1.2 button** to increase / decrease ALT by 100 ft
  - ✓ Vertical Speed VS is +/- 3 000 ft by default
  - ✓ To select another VS Press V/S **9 button** and turn **button 2**
- To select a Heading HDG :
  1. push **3.2 button** 'SEL' to engage heading for Autopilot
  2. turn **3.1 button** to set a heading
  3. turn **3.3 button** to select maximum rotation : automatic / 5° / 10° / 15° / 20° / 25°
    - ➔ **Automatic is very very slow** ➔ 20 to 25° better...
- To synchronize Heading with actual direction : push HDG **4 button**
  - ➔ This button is not for activate a heading for AP

## SPEED / IAS :

- Turn IAS **5 button** to set your speed
- Push SEL **6.1 button** (and 6.2 but useless apparently) to select this speed, green button SPD useless
- Engage Autothrottle A/T ARM **7 button** (A/T engage useless)
  - ➔ Typhoon will try to respect this speed (difficult with high speeds : avoid play with A/T & ALT selection at high speed...)
- After : to change speed only need to **turn 5**.  
And to release auto speed only need to **push 7 button** to engage / disengage Auto Throttle = 6.1 & 6.2 are useless

In case of bug or to be sure to release AP : **push big red button A/P DISC (8)** to disconnect all AP functions  
Push it again to reconnect AP and have possibility to (re)engage AP

## 2- With Flight plan / GPS route :



### AP :

- A/P : engage Autopilot (must be active to select route...)
  - NAV = Lateral Navigation **button 11** : engage GPS route
  - APP = Approach procedure
  - LOC = Localizer
  - VNAV = Vertical Navigation : could not work for version 1.10  
→ disable it if ON by default, or activate V/S (releases VNAV)...
- In case of bug with this, disconnect/reconnect (**8 button**) A/P to reset AP
- ALT = Altitude Hold works (hold current alt) : **button 10**
  - To select an altitude :
    - ✓ turn **1.1 button** to increase / decrease ALT by 1 000 ft
    - ✓ turn **1.2 button** to increase / decrease ALT by 100 ft
    - ✓ Vertical Speed VS is +/- 3 000 ft by default
    - ✓ To select another VS Press V/S **9 button** and turn **button 2**

- To select a Heading HDG with a GPS route active :
  1. Press HDG **4 button** to synchronize this HDG with actual route  
→ has effect to release LNAV and so GPS route
  2. push **3.2 button** 'SEL' to engage heading for Autopilot
  3. turn **3.1 button** to set a heading
  4. turn **3.3 button** to select maximum rotation : 5° / 10° / 15° / 20° / 25°  
→ **'automatic' MUST BE RELEASED, NOT BE SELECTED (too slow) : better select to 20/25°**  
→ Typh. will turn to follow new heading...
- Press NAV **button 11** to reengage LNAV if you want and so follow the GPS route

SPEED / IAS : Same as 'Without GPS route'

In case of bug or to be sure to release AP : **push big red button A/P DISC (8)** to disconnect all AP functions  
Push it again to reconnect AP and have possibility to (re)engage AP



Thanks & Enjoy it...

