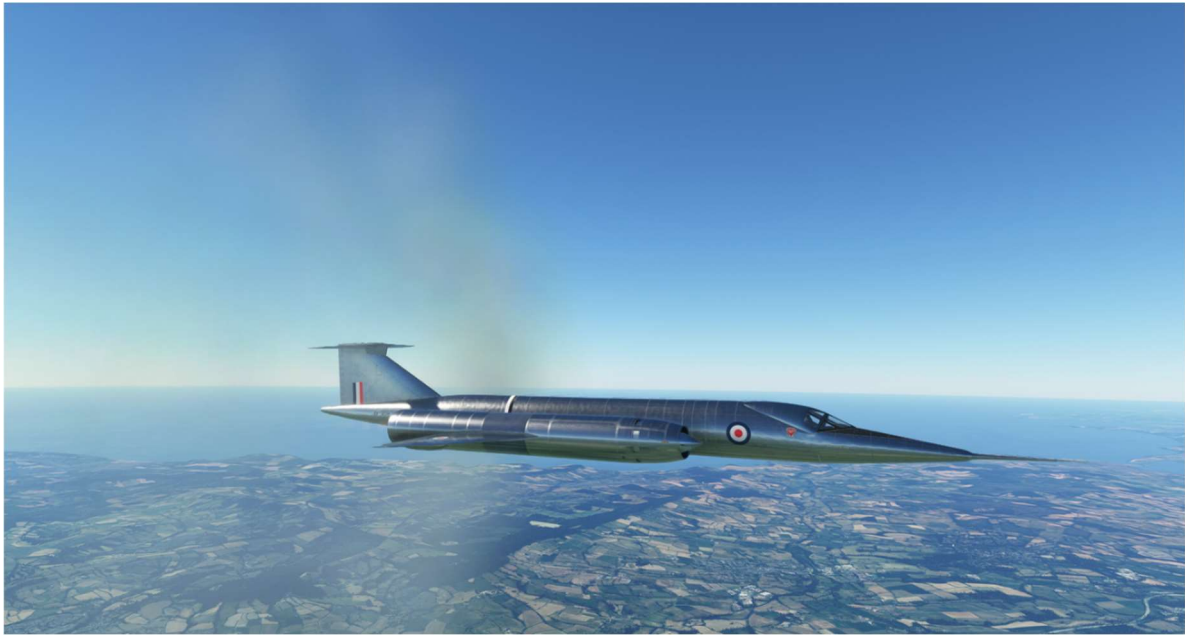


Bristol Type 188



V1.5.1 Bristol 188 MSFS2024 Native version. Not compatible with MSFS2020.

Description:

Bristol Type 188, the 'Flaming Pencil' was a British highspeed research aircraft. Designed to meet operational requirement ER.134T for a testbed capable of speeds greater than Mach 2. Due to the anticipated effects of kinetic heating at high Mach numbers, the fuselage was constructed of stainless steel. Two aircraft were built, XF923 and XF926. First flight of XF923 was on 14th April 1962 and then XF926 with upgraded Gyron Junior engines on 29th April 1963. Ironically, the Maximum speed achieved was Mach 1.88 at 36,000 ft. Although the top speed of the Type 188 was disappointing, the airframe advanced understanding and knowledge of structures, oils, electrics, hydraulic fluid, bearings, tires, windows and cabin environment at high temperatures as well as telemetry which was used during the development of Concorde. Last flight was 11th January 1964. One Bristol Type 188 remains at the RAF Museum, Cosford, UK. MSFS 2024 native design (this version is not backwards compatible with MSFS2020). Custom 3D gauges and cockpit.

Produced by TG Sims.

General characteristics:

Crew: one

Length: 77 ft 8 in (23.68 m)

Wingspan: 25 ft 1 in (10.70 m)

Height: 13 ft 11 in (4.23 m)

Wing area: 396.25 ft² (36.85 m²)

Gross weight: 37,500 lb (17,010 kg)

Powerplant: 2 × de Havilland Gyron Junior DGJ.10R turbojet, 10,300 lbf (44.4 kN) dry, Reheat 14,000 lbf (62.2kN), 20,000 lbf (88.9 kN) at 36,000 ft.

Landing approach speed 188 knots.

Top Speed: Mach 1.88.

Install Instructions:

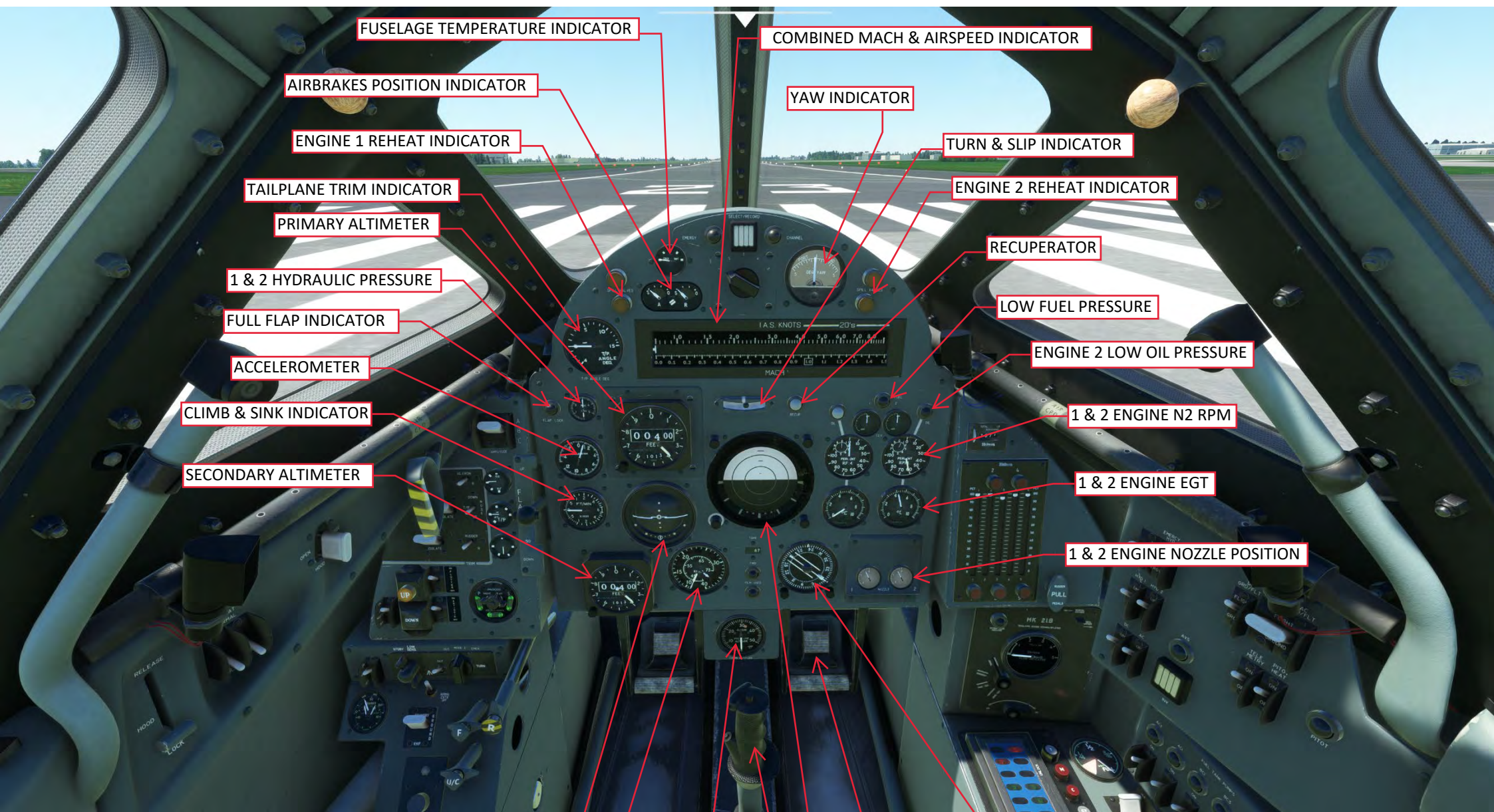
1. Copy tgsims-bristol-t188 folder to your MSFS 2024 Community folder.

Cold and Dark Starting:

1. Parking Brake – On.
2. Master Battery - On.
3. Undercarriage Indicator – three greens.
4. CWP Test On/Off- Check Lights illuminate.
5. Fuel Tank Low Fuel Quantity Lights - press to test.
6. Spill Valves and Reheat lights – press to test.
7. DC Ground/Flight Switch – Ground.
8. AC Ground/Flight Switch – Ground.
9. Pitot Heat - On.
10. Emergency Hydraulic Switch – Normal.
11. No.1 Hydraulic Switch – On.
12. No.2 Hydraulic Switch – On.
13. Avionics Switch – On.
14. Turbo Generator -On.
15. Fuel Tank Pumps - All On.
16. Fuel Tank Pump Indicators - Turn to black.
17. CWP Backing Pump Lights – On.
18. Engine Master Switch – On.
19. Engine Ignition Switch 1 or 2 - On.
20. LP Fuel Cock 1 or 2 – Open.
21. Engine Starter – On.
22. Engine Starter Selector – select Engine 1 or 2 for start.
23. Low Oil Pressure Indicator – Extinguished turn to black by 50% N2.
24. CWP Low Hydraulic Pressure Light – Extinguished by 50% N2.
25. CWP Alternator Light – On by 60% N2.
26. Hydraulic Pressure – Increasing to 3,000 Psi.
27. Turbo Generator – On.
28. Avionics Switch - On.
29. Avionics Indicator – Turn to black.
30. Anti-Skid Switch – On.
31. CWP Anti-Skid Light – Off.
32. Flutter Switch – On.
33. IFF Switch – On.
34. LOX Switch – On.
35. LOX Flow Indicator – Indicating.
36. Engine Starter – Off.
37. DC Ground/Flight Switch – Flight.
38. AC Ground/Flight Switch – Flight.
39. Parking Brake – Off.

Pilot Notes:

- Take-off 90% N2 dry thrust. Zero or 30 Degree flaps and lift-off 190 knots.
- Use tailplane trim to counter tuck-under experienced through Mach 1.
- **Climb to altitude for high-speed runs as engines surge at high speed and low altitude due to non-variable air intakes.**
- The T188 is a test aircraft and has no external lights.
- XF926 has more powerful engines and can attain higher speeds than XF923.
- **XF926 will reach M1.8+ at altitude. XF923 will not.**



FUSELAGE TEMPERATURE INDICATOR

COMBINED MACH & AIRSPEED INDICATOR

AIRBRAKES POSITION INDICATOR

YAW INDICATOR

ENGINE 1 REHEAT INDICATOR

TURN & SLIP INDICATOR

TAILPLANE TRIM INDICATOR

ENGINE 2 REHEAT INDICATOR

PRIMARY ALTIMETER

RECUPERATOR

1 & 2 HYDRAULIC PRESSURE

LOW FUEL PRESSURE

FULL FLAP INDICATOR

ENGINE 2 LOW OIL PRESSURE

ACCELEROMETER

1 & 2 ENGINE N2 RPM

CLIMB & SINK INDICATOR

1 & 2 ENGINE EGT

SECONDARY ALTIMETER

1 & 2 ENGINE NOZZLE POSITION

SECONDARY ATTITUDE INDICATOR

DIRECTIONAL GYRO

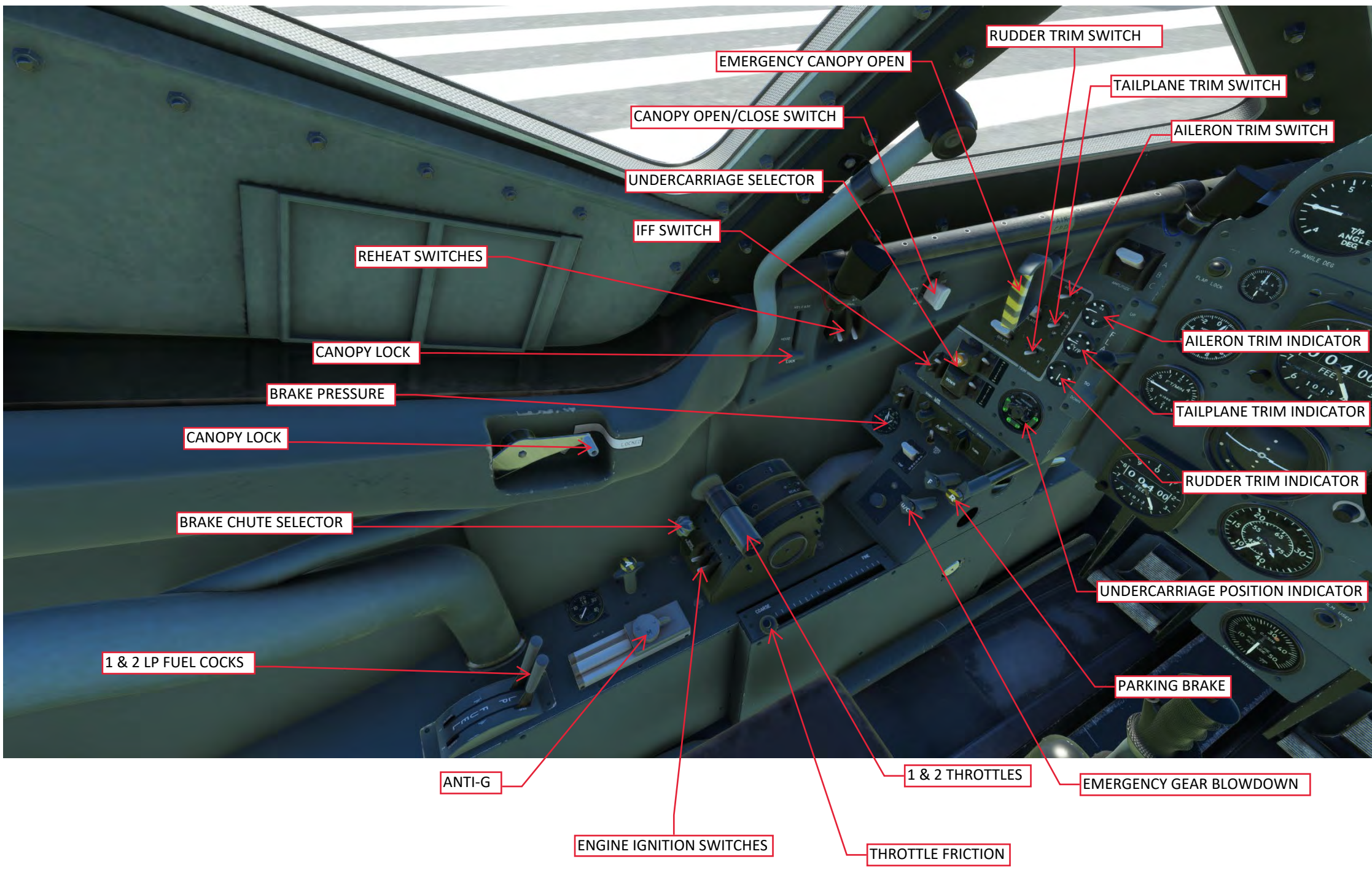
RUDDER & TOE BRAKE PEDALS

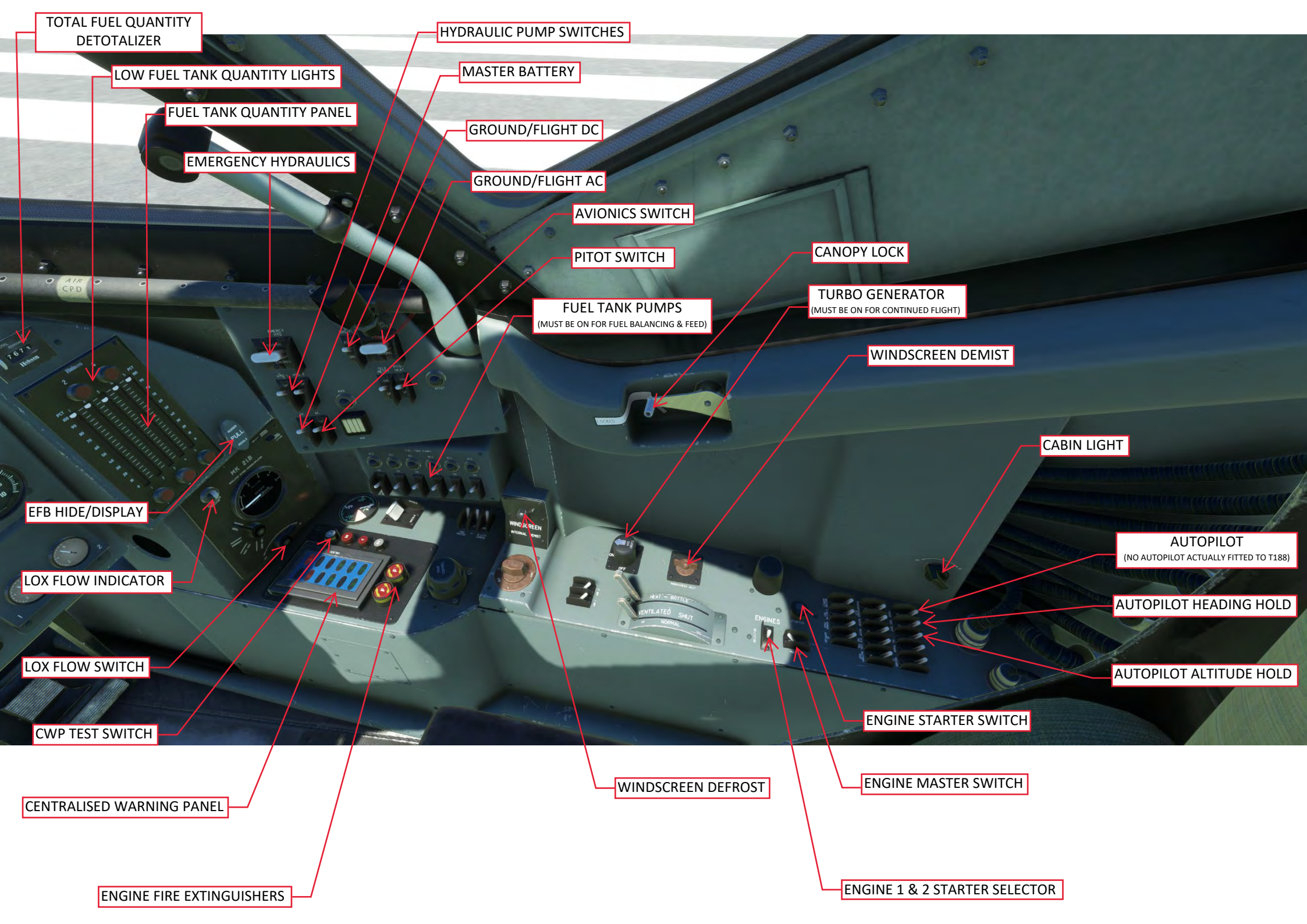
CABIN PRESSURE

PRIMARY ATTITUDE INDICATOR

SECONDARY AIRSPEED INDICATOR

CONTROL COLUMN





TOTAL FUEL QUANTITY
DETOTALIZER

LOW FUEL TANK QUANTITY LIGHTS

FUEL TANK QUANTITY PANEL

EMERGENCY HYDRAULICS

HYDRAULIC PUMP SWITCHES

MASTER BATTERY

GROUND/FLIGHT DC

GROUND/FLIGHT AC

AVIONICS SWITCH

PITOT SWITCH

CANOPY LOCK

TURBO GENERATOR
(MUST BE ON FOR CONTINUED FLIGHT)

WINDSCREEN DEMIST

CABIN LIGHT

AUTOPILOT
(NO AUTOPILOT ACTUALLY FITTED TO T188)

AUTOPILOT HEADING HOLD

AUTOPILOT ALTITUDE HOLD

ENGINE STARTER SWITCH

ENGINE MASTER SWITCH

ENGINE 1 & 2 STARTER SELECTOR

WINDSCREEN DEFROST

EFB HIDE/DISPLAY

LOX FLOW INDICATOR

LOX FLOW SWITCH

CWP TEST SWITCH

CENTRALISED WARNING PANEL

ENGINE FIRE EXTINGUISHERS

FUEL TANK PUMPS
(MUST BE ON FOR FUEL BALANCING & FEED)

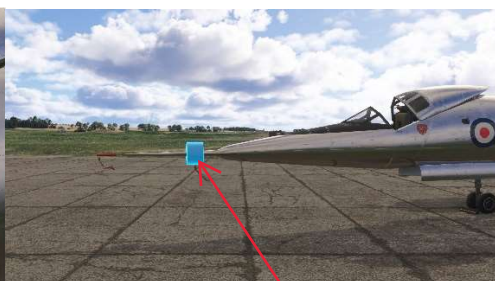


CANOPY OPEN/CLOSE

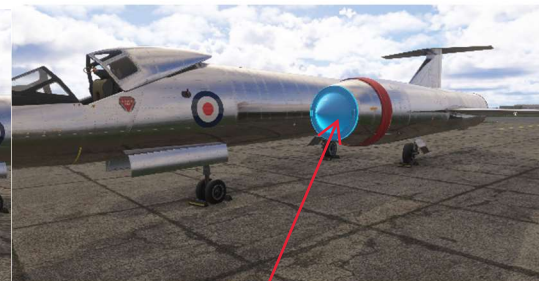
GPU DISPLAY/HIDE



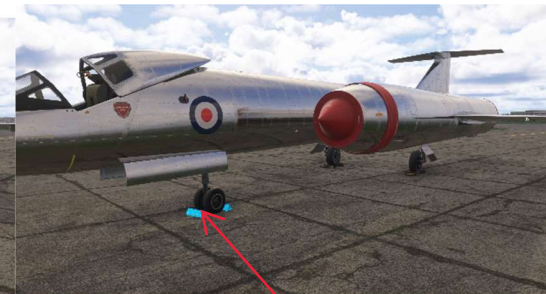
AIRCRAFT ENTRY



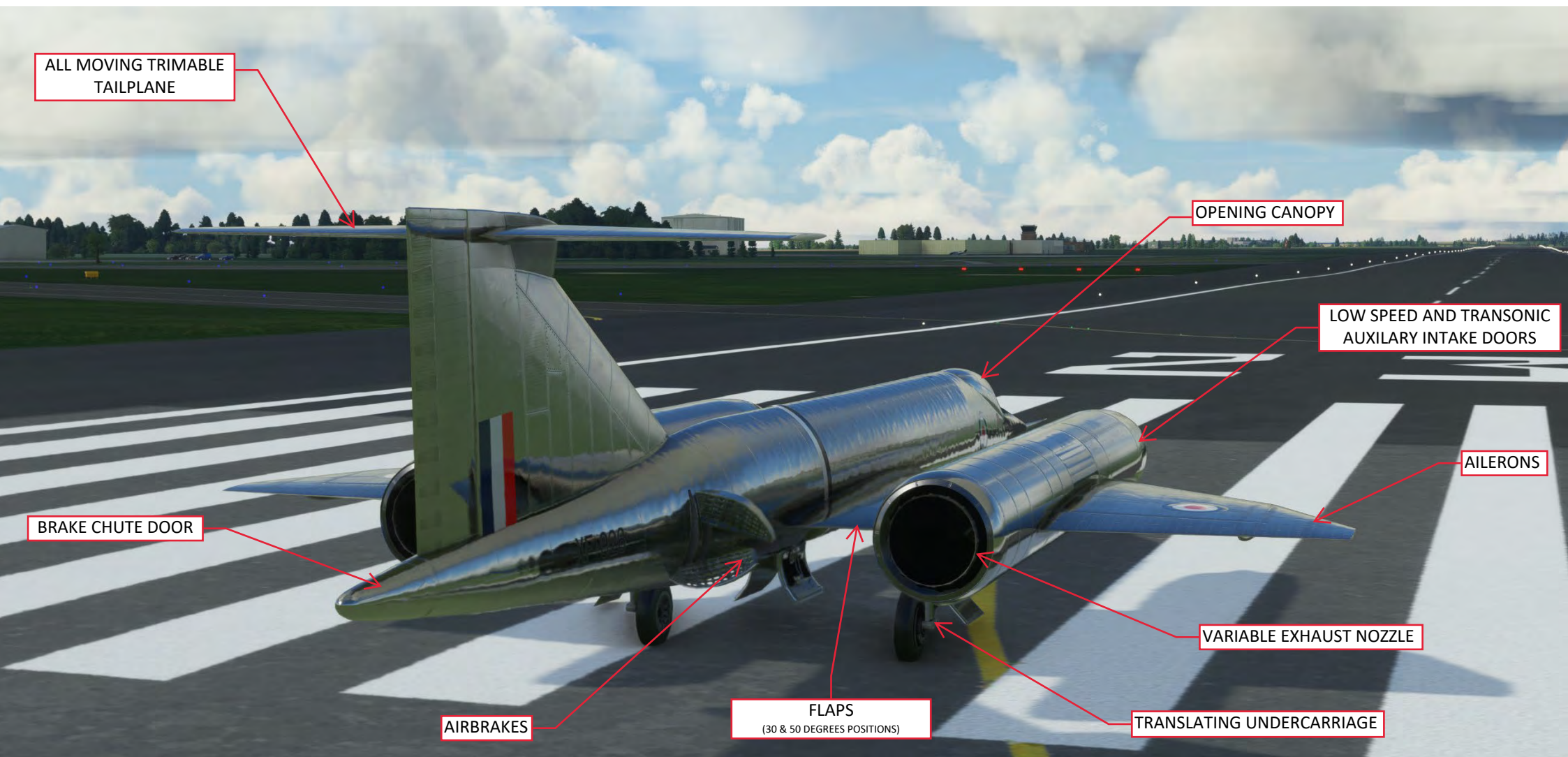
REMOVE STATIC COVER



REMOVE ENGINE COVERS



REMOVE CHOCKS



Thanks:

This aircraft was made using Blender 3.6.0, Adobe Photoshop and Substance 3D Painter.

Thank you to the FSDeveloper and FS2 community for all your help including Jonx, Sal1800, Hangar Studios 713, Hans Hartmann, Aldo, Destroyer, EzRyder, Milton Shupe, n4gix, tgibson, DragonflightDesign, Heretic, spokes2112, kalong, antaris, Vitus, rcbarend, dave hoedden, Zoren, chris, Roy Holmes, chris34, Deano1973, EduHir, JB3DG, Hangar Studios 713 and Jonx.

Contact and Feedback:

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Facebook, Instagram: Search for TG Sims.



XF926 at RAF Museum, Cosford, UK.

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Model, textures, coding and documentation: Tyler Gladman, TG Sims.

Version History:

V1.0.1– Initial release.

V1.0.2 – Update 16Jun24.

Change Log:

- Built to latest SDK post SU15.
- Canopy unlock switch bug fixed and code updated to modern MSFS.
- Drag Chute lever bug fixed and code updated to modern MSFS.
- Engine Master Switch bug fixed.
- Emergency Canopy unlock updated to modern MSFS code.
- LP Fuel Cocks updated to modern MSFS code.
- Clickable Airbrake switch added to throttle lever.
- Battery 2 removed.
- Added working AC Ground (External Power) switch.
- Throttle is now mouse moveable and code updated to modern MSFS.
- Parking brake lever code updated to modern MSFS.
- Gear selectors code updated to modern MSFS.
- Flap lever code updated to modern MSFS.

V1.0.3 – Update 23Feb25.

- Removed blanks showing in MSFS 2020 Hangar and MSFS 2024 Aircraft Configuration screen.
- Changed draw order of windscreen and canopy glass to stop flickering in MSFS 2024.

V1.0.4 – Update 27Mar25.

- Fixed a bug where the No.1 engine RPM needle rolled back when it reached 100%.

V1.0.5 – Update 01Apr25.

- Removed redundant legacy fuel system configuration details.
- Fixed a bug causing fuel starvation of XF923 after tanks 1,2,4 and 5 became empty.

V1.0.6 – Update 06May25.

- Fixed a bug preventing the XF926 nose wheel steering to function.

V1.5.1 – Update 02Jul26.

- MSFS2024 Native version. Not compatible with MSFS2020.
- MSFS2024 EFB added.
- GPU model added.
- Walkaround removable Chocks, Pitot, Static and Engine Covers added.
- Walkaround clickspots for GPU, Open/Close Canopy and Aircraft Entry added.
- New Hydraulic system.
- New Fuel system.
- New Electrical system.
- Simulated Oxygen system added.
- Updated Checklist.
- Custom engine Glow, Wet Start, Smoke and Reheat effects.
- Updated to MSFS2024 code.
- External and Internal LOD's added.
- Updated textures including improved fuselage panel lines.
- Updated Windshield effects, rain, icing, micro-scratches, smudges and thumb prints.

TG Sims.

July 2026