

Max Holste MH1521 BROUSSARD



MSFS and FS2024 versions v1.1

RESTAURAVIA

English language

THE MH1521 BROUSSARD

Designed during the 1950s and 1960s by the french engineer Max Holste, the Broussard was a rugged aircraft suitable for use on rough terrain for observation, reconnaissance, liaison, and medical evacuation missions.

It was a high-wing monoplane powered by a Pratt & Whitney R 985 9-cylinder radial engine, recognizable by its H-shaped twin-tail.

The first flight took place in 1952, and series production continued until 1961. The main users were the French military (Air Force, Army Light Aviation, and Naval Aviation) and, outside mainland France, various African countries, as well as Portugal.



For more information about the Broussard, numerous documents are available on the internet, for example:

** Max Holste MH1521 Broussard (*)*

https://fr.wikipedia.org/wiki/Max-Holste_MH-1521_Broussard

** Le Broussard (*)*

<http://www.mh-1521.fr/>

** Les aéronefs de l'ALAT - le Broussard par Christian Malcros (*)*

<https://www.skyshelf.eu/fr-ie/products/malcros-christian-max-holste-mh-1521-broussard-en-service-dans-lalat-ebook>

*(*) french language*

MODELING BY RESTAURAVIA

The Broussard model was created for FS2020 (MSFS) ()*

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Sounds: Jean-Michel Renaux

Testing and contribution to corrections : Jean Lacante

() A version usable on FS2024 has been derived. It is also available on the Restauravia website.*

LEFT PANEL



- 1 - Emergency compass with integrated lighting
- 2 - Panel lighting lamps
- 3 - Flap control switch and indicator
- 4 - Low fuel level alarms
- 5 - Fuel and oil levers (**)
- 6 - Airspeed indicator
- 7 - Attitude indicator (***)
- 8 - Variometer
- 9 - Radio compass indicator (ADF)
- 10 - Fuel injector and pump
- 11 - Magnetos selector
- 12 - Altimeter
- 13 - Gyro-compass (***)
- 14 - Bank and turn indicator (***)
- 15 - Clock
- 16 - Taxi light control switch
- 17 - Depressed air supply with selectors and pressure gauge
- 18 - Fire alarm and extinguisher (*)
- 19 - Bomb launcher (*)
- 20 - Aircraft interphone (*)
- 21 - Recognition lights
- 22 - Lighting wheels (UV and red) on the left panel
- 23 - Propeller pitch control
- 24 - Static pressure mode switch
- 25 - Anemometer antenna heater
- 26 - NAV lights
- 27 - NAV lights up/down switch
- 28 - Mixture control
- 29 - Throttle control
- 30 - Parking brake control

(*) non-functional

(**) use mouse wheel

(***) active if corresponding air supply selector 17 open

CENTRAL PANEL



- 31 - Manifold pressure
- 32 - Fuel pressure
- 33 - Engine tachometer
- 34 - Oil Pressure
- 35 - Oil Temperature
- 36 - Cylinder Head Temperature
- 37 - Carburetor Temperature
- 38 - Engine Cowl Flap Control Switch
- 39 - Starter Button (Under Cover)
- 40 - Carburetor and Oil Heater Control Levers
- 41 - Starter
- 42 - Rudder Trim Knob and Indicator
- 43 - Elevator Trim Wheel and Indicator
- 44 - Tank Selection Knob (*)

(*) The fuel gauges are located outboard, under the fenders. They indicate the fuel level available in each of the two tanks.

RIGHT PANEL



- 45 - Radio control units
(refer to page 7 for using the radios)
- 46 - Battery switch
- 47 - Voltmeter
- 48 - Generator switch under cover and indicator light
- 49 - Cabin heating selector
- 50 - Propeller pitch lever
- 51 - Lighting red dial on the right dashboard
- 52 - Mixture lever
- 53 - Throttle lever

USE OFF RADIOS



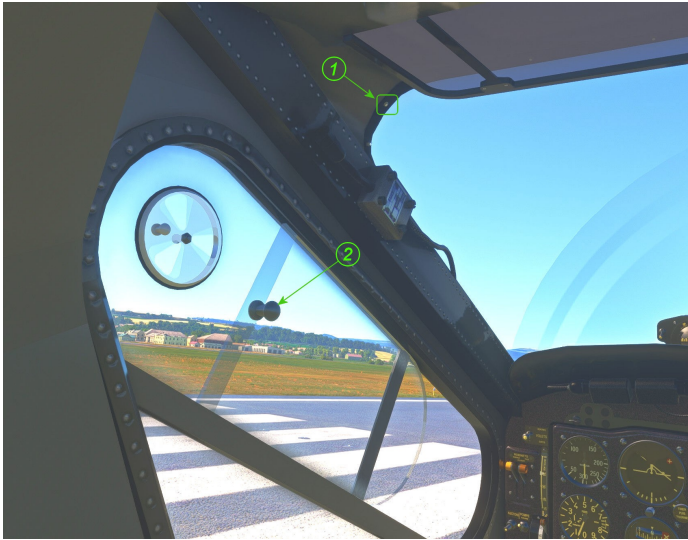
RADIO COMPASS (ADF) (4 channels)

- 1 - On/Off switch
- 2 - Frequency display of the 4 channels
- 3 - Frequency adjustment :
hundreds > left click
tens and units > mouse wheel
- 4 - Select the active channel (pressed button > active channel)

RADIO COM (VHF)

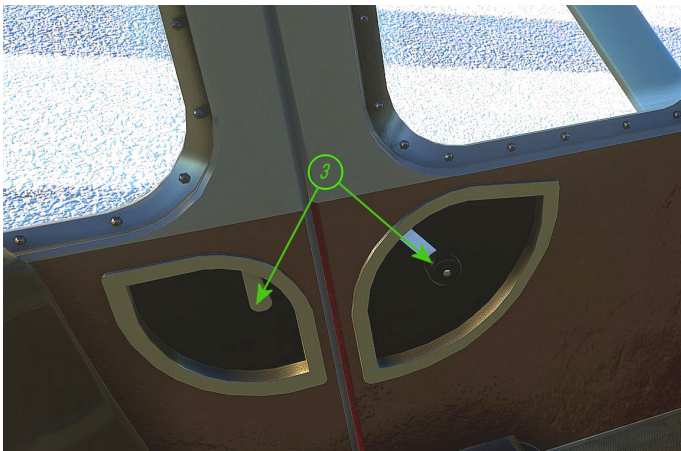
- 5 - Dial used as an on/off switch
- 6 - Frequency adjustment dial
integers > mouse wheel
decimals > left click
- 7 - Click here to display the frequency

- 8 - Switch interphone boxes - pilot and co-pilot radios (non-functional)



1 - Click on the screw to move the sunshade

2 - Sliding window control



3 - Doors controls

PILOTS DISPLAY

MSFS version:

Use the MSFS menu to select the pilot and copilot to display from the available collection.

FS2024 version:

Only one pilot and one copilot are available.

STARTUP

(Refer to pages 4-5 and 6 to locate the listed controls)

- * Parking brake on (30) - lever to the left*
- * Battery (46) and generator (48) ON*
- * Fuel and oil levers (12) open - levers up*
- * Mixture on rich (23) - lever forward*
- * Throttle (29) - lever 1 to 2 centimeters forward*
- * Propeller (23) on high pitch - lever back (*)*
- * Fuel tank selector (44) on "all" - wheel centered*
- * Activate the electric pump (10 right) - pressure gauge (34) in the green zone*
- * Perform a few injections (10 left) - 1 or 2 if the engine is warm - 2 to 4 if the engine is cold*
- * Starter (39) - Click to open the cover then press the button until the engine starts Engine*
- * Propeller lever (23) forward in low pitch*
- * Display 1200 rpm and monitor the oil temperature rise (35)*

() Unlike most aircraft, the flight manual recommends starting with the propeller in high pitch.*

REFERENCES

Before alignment:

- Flaps 15°
- Fuel pump On
- Cowl flaps set for cylinder head temperature < 230°
- Oil temperature > 50°C

Takeoff:

- Takeoff at 56 to 64 knots depending on weight
- Level off until 80 knots

Climb:

- Reduce throttle to 117 rpm - 2200 rpm
- Cylinder head temperature between 160° and 260°
- Oil temperature 85° max
- Carburetor temperature 32°

Normal cruise:

- 88 rpm - 1900 rpm
- Fuel pump off
- 100 knots

Descent:

- 60 rpm - 1700 rpm
- 100 knots

Downwind:

- Full rich mixture
- Full low pitch propeller
- Flaps 20°
- 86 ft for 80 knots

Final:

- Flaps on demand
- 65 knots

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If you have any problems in using this model :

- Look at this documentation: the answer is probably here.*
- Visit the "Pilote Virtuel" forum <http://www.pilotevirtuel.com> (french language).
It probably speaks of the Broussard and you can find help.*

Or an english language forum (for instance SOH <http://www.sim-outhouse.com/sohforums/forum.php>)

Last solution: contact us at support@restauravia.fr

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