FS2004 Photorealistic panel or the Messerschmitt Bf-109

By Jean-Pierre Langer

FOREWORD

I made this panel for the very nice Messerschmitt Bf-109E made by the FSFrance team: Pierre Marchadier for the model, Gilles Mercier for the paintings Jean-Pierre Bourgeois for the flight dynamics and Benoît Dubé as test pilot.

The panel background has been made according pictures taken at the Musée de l'Air et de l'Espace located on the Paris-Le Bourget LFPB airport (photo taken on a Spanish Buchon plane), and the gauges have been made according the same pictures as well as according pictures of original instruments found on the web for sale.

IMPORTANT : Due to the panel complexity with many views, I recommend that, when starting FS, ***you load a default plane first then change or the Bf-109***. Also, to navigate between panels, ***never use SHIFT+Number, but always use the SimIcons***.

PANEL VIEWS

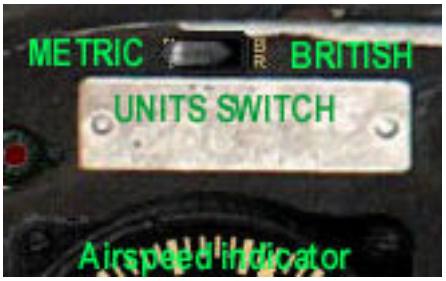
As usual, when you load the plane, you get the panel ***Main view*** with all the instruments and with the use of the SimIcon with two arrows, you switch to the panel ***Landing view***, with more outside view, but less instruments.

Main view

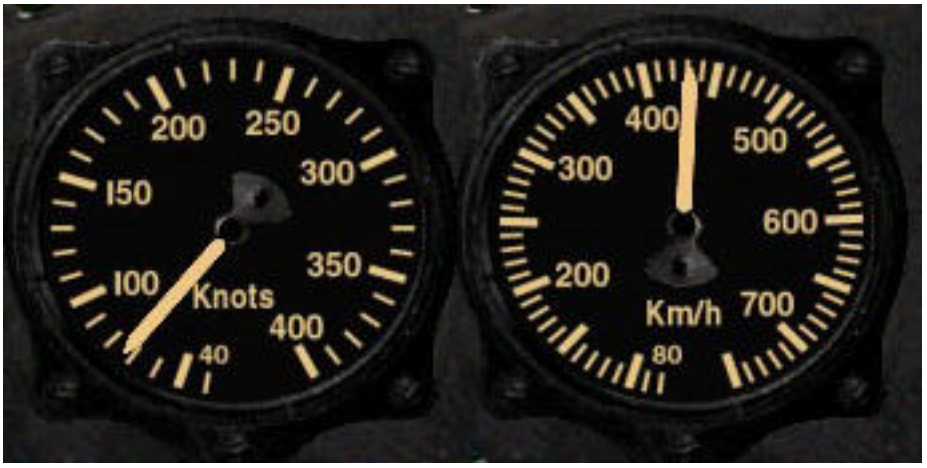
Landing view

DIFFERENT INSTRUMENTS UNITS

On the top left corner of the panel, above the airspeed indicator is located a switch to change between original german metric units to modern wideworld used units (feet, knots and nautical miles) for some instruments like airspeed indicator, altimeter, vertical speed, etc…



On the following picture you can see the british and the metric type of the airspeed indicator.



GPS SUBPANEL

By clicking on the GPS SimIcon you display the GPS. You can close this subpanel by clicking either on the same SimIcon or on the GARMIN name on the GPS. The NAV/GPS switch is located left of the Magnetos selector.

RADIOS SUBPANEL

The different radios are in a subpanel displayed by clicking on the usual Radios SimIcon. To close it, click on the same SimIcon or on the Close (X) SimIcon on the top left corner of the radios subpanel.

The different radios are from top to bottom :

Radio COM transceiver SK10,
Radio NAV receiverE10K,
Radio ADF receiver EZ6,
Radio (IFF) transponder FUG25A6

All radios must be switched on to function and be tuned and a small lamp indicates if they are on. These radios are old type looking and the frequencies are generally displayed on a graduated scale, difficult to read, but they all have a help displaying the frequency tuned when the mouse is on them.

A left click on the tuning knob on the COM or NAV radios increases/decreases the frequency by 25 kHz, a right click by 1 MHz.

Both the NAV and the ADF radios have a tone switch to enable to hear the beacon morse ident signal.

On the ADF radio, you must select one of these frequency bands : 200-410, 410-850 or 850-1750 kHz before tuning.

A left click on the tuning knob on the ADF radios increases/decreases the frequency by 0.5 kHz, a right click by 5 kHz.

The transponder has one tuning button per digit.

All the radios are represented on the picture here right, and the different buttons and switches are identified by a text.

Nota : A click at the bottom right corner of the main or landing view opens the radio subpanel.

THROTTLE SUBPANEL

The throttle quadrant with propeller and thrust levers is displayed in a subpanel by clicking on the usual Throttle SimIcon. To close it, click on the same SimIcon or on the Close (X) SimIcon on the top left corner of the throttle subpanel.

The blue lever is the thrust lever and the red one the propeller lever.

The mixture is automatic on the Bf-109.

You can also display the throttle quadrant by clicking at the bottom left corner of the Main or Landing panels.

RADIOCOMPASS

To help navigation in FS2004, there is a way to replace the tachometer gauge by an ADF indicator. Just click on the white element located right of the tachometer to replace it by an ADF indicator. Click on the same place to return to the tachometer. This works in both Main and Landing panel.

LANDING INSTRUMENT

This is a special german landing instrument, which you can compare to an ILS indicator. The only difference is that you cannot set the course. It is set automatically according the frequency tuned if there is a Localizer beam on the specific airport. It does not work on normal VOR, only VOR/LOC.

PROPELLER PITCH INSTRUMENT

There is another special german instrument for the propeller pitch measuring. It looks like a clock but it is not. For easy convenience and remembering of the pitch, the german used this clock type indicator and when it shows 2h00 you are at 16% pitch, 6h00 at 50% and noon at 100%.

FLAPS INDICATOR

I have added a special flaps indicator underneath and to the right of the timer. It is visible on both Main and Landing views. It is not a real original instrument, but it helps the flightsimmer as it is in front of his eyes. It looks like a lamp. When off, the flaps are up, the more lighted the flaps are lowered. At maximum brightness, you fly full flaps.

STARTING THE ENGINE

To start the engine :

- hit CTRL+SHIFT+F4 to open the fuel
- place the magnetos to 1+2
- depress the starter knob until the engine starts

LiGHTS

There is no electrical subpanel as you can use the standard keystroke for the different lights: L, SHIFT+L and CTRL+L

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October 12, 2006