

SNCAN Nord 1101 Ramier



version 1.0 for Xplane11

English version manual

	<i>Page</i>
<i>The Nord 1101 Ramier</i>	<i>3</i>
<i>The Restauravia team</i>	<i>4</i>
<i>The Nord1101 project</i>	<i>5</i>
<i>Front panel</i>	<i>7</i>
<i>Other commands</i>	<i>8</i>
<i>Starting procedure</i>	<i>9</i>
<i>Propeller pitch command</i>	<i>10</i>
<i>Radio COM control unit</i>	<i>11</i>
<i>Legal mentions</i>	<i>12</i>

THE NORD 1101 RAMIER

During the Second World War, the German manufacturer Messerschmitt had transferred to the North of occupied France (Méaulte) the construction of the aircraft Me108 "Taifun" . He also began the study of a new liaison and training aircraft as a successor under the Me208 appellation.

At the time of the Liberation, this program had not yet been produced in series. It was restarted by the recently created french manufacturer " Société Nationale de Construction Aéronautique du Nord" (SNCAN) and produced in series with the name "Nord1101" (Ramier for military users - Noralpha for civilians).

The North 1101 is a metal monoplane aircraft (except the control surfaces), four-seater and dual control. It is equipped with an air-cooled 6-cylinders in-line Renault 6Q engine and a metal RATIER propeller with variable pitch with electric command.

General characteristics :

Wingspan 11,50m

Lenght 8,845m

Height 3,350m

Hydraulic retractable gear

Specials

- Compressed air autonomous starting system (Air Equipement type VIET223)*
- electric control used for manual or automatic propeller pitch setting*
- no parking brake*
- steering on the ground using the brakes (front wheel not combined with the rudder) (*)*
- inverted mixture control ("full rich" >> backward)*

() on the model the front wheel is however combined with the rudder for easier use*

THE RESTAURAVIA TEAM



Restauravia is more than just a team: primarily, it's a group of friends who sometimes likes to be around (or in) real planes. It is also an association, where members works on a voluntary basis.

To create a realistic FS aircraft, and to approach reality, you must have the following :

- 3D modellers: Emmanuel Geoffroy, André Chancel, Gilles Faulmeyer and Philippe Penot are masters in the difficult art of taming 3DSmax or Gmax !

- a 3D model isn't very nice without a texture to cover: Marc Hardouin, also webmaster and Gilles Mercier are there with their brushes!

- Panels with realistic gauges: Jean-Pierre Langer.

- Sounds are important for a good immersion: Jean-Michel Renaux.

- The very difficult exercise to make the connection between real flight dynamic to those in Flight Simulator can be trusted only to specialists: Jean-Pierre Bourgeois (The "BeeGee" !) .

Finally, to validate it all, real test pilots are needed, pilots who flew in the real aircraft, Michel Panattoni (also a member of the Royale French Navy), Henri Guyot and Darcy Vegas. Many consultants, often real pilots, come also to give their opinion.

We do not forget our friend Benoit Dubé who left us recently for a "without return flight" and whose memory remains intact in the team

THE NORD 1101 RAMIER PROJECT

Modeling: XP11 adaptation by Bernard Juniot of the André Chancel's model for Prepar3D / FSX

Textures: XP11 adaptation by Bernard Juniot of the Marc Hardouin's textures for Prepar3D / FSX

Sounds: XP11 adaptation by Bernard Juniot of the Jean-Michel Renaux's sounds for Prepar3D / FSX

Flight Model: Jean-Pierre Bourgeois (BeeGee)



invitation to travel



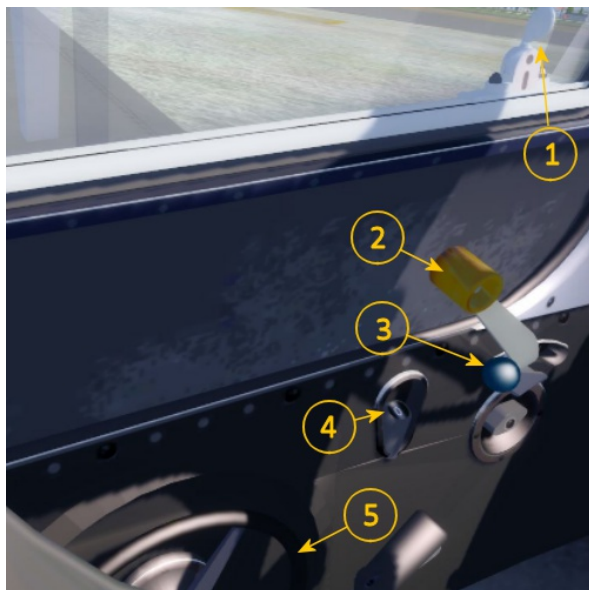
FRONT PANEL



- | | | |
|-----------------------------|---------------------------------|--------------------------------------|
| 1 - Aerator (*) | 11 - Landing gear position | 20 - Fuel tanks gauge |
| 2 - Pitot heat light | 12 - Anemometer | 21 - Fuel pressure |
| 3 - FIRE alarm | 13 - Attitude indicator | 22 - Clock |
| 4 - Extinguisher command | 14 - Vertical speed indicator | 23 - Oil pressure |
| 5 - Manifold pressure | 15 - Altimeter | 25 - Depressed air distributor (***) |
| 6 - Turn indicator | 16 - Gyro-compass | 26 - Static pressure selector |
| 7 - Propeller setting panel | 17 - Compass | 27 - Hydraulic pressure |
| 8 - Tachometer | 18 - Cabin lighting button (**) | 28 - Starting AIR pressure indicator |
| 9 - Fuel tanks selector | 19 - VHF COM radio | |
| 10 - Magnetos selector | | |

(*) unfunctional (**) compass lighting on the real plane (***) click a button to activate turn indicator - attitude indicator - gyro-compass

OTHER COMMANDS

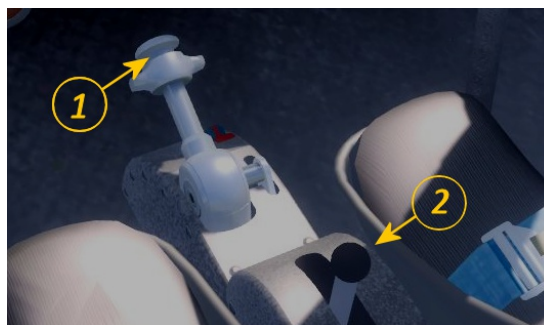


- 1- Open / close left window
- 2 - Throttle lever
- 3 - Mixture lever (RICH > backward !)
- 4 - Flaps position
- 5 - Flaps command

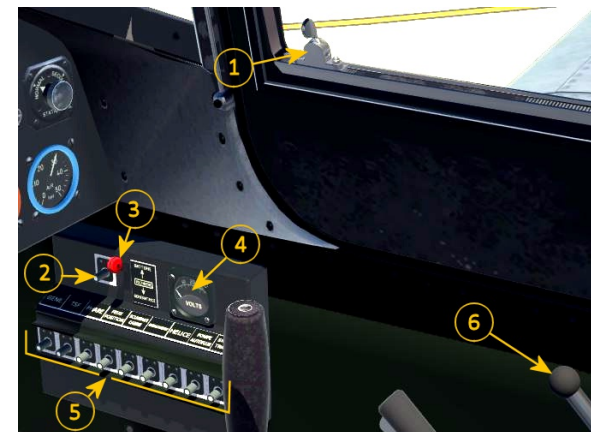


To open / close a door click on the cord
or use keyboard shortcuts dedicated to
doors:

- Left > door 1
- Right > door 2



- 1 - Landing gear lever
- 2 - Pitch compensator lever

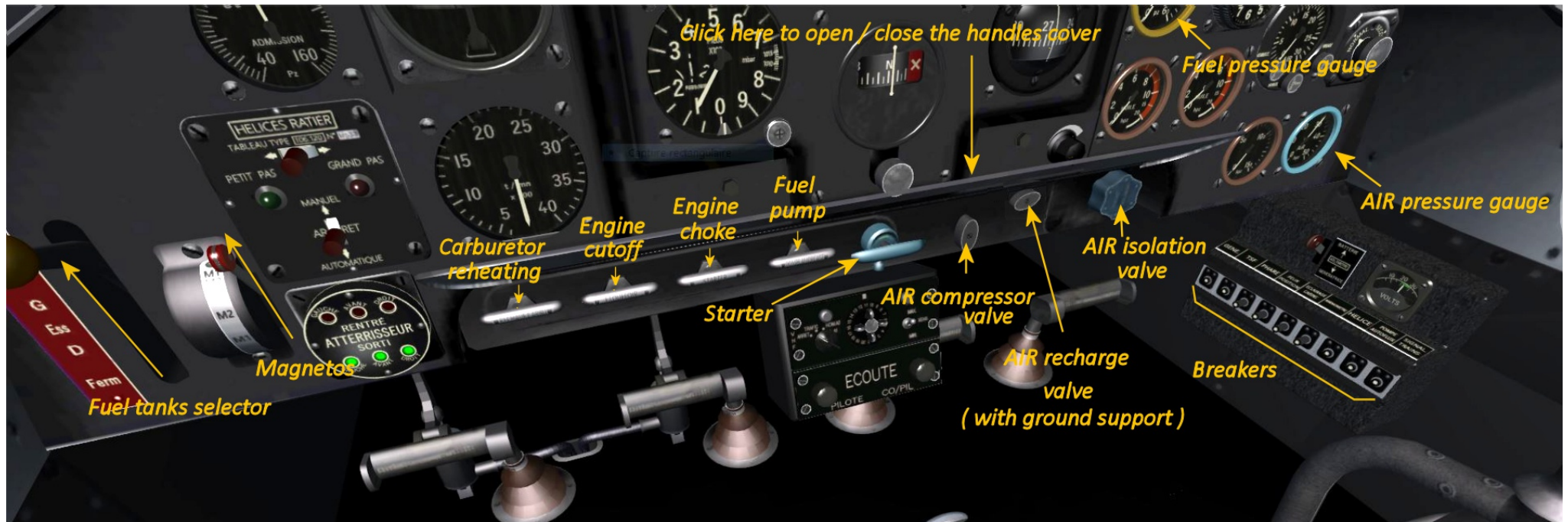


- 1- Open / close right window
- 2 - Battery switch
- 3 - Voltmeter selector (battery <> generator)
- 4- Voltmeter
- 5 - Breakers

BREAKERS

GENE.	TSF	PHARE	FEUX POSITION	ECLAIRAGE CABINE	ANEMOMETRE	HELICE	POMPE AUTOFLUX	SIGNAL. TRAINS
Generator	VHF	Landing light	NAV lights	Cabin light	Pitot heat	Propeller panel	Fuel pump	Gear lights

STARTING PROCEDURE



BEFORE STARTING

- Battery switch ON
- Breakers (as required)
- Open the controller cover (under panel)
- Carburetor reheating (as required)
- Pull fuel pump handle
- Look at fuel pressure gauge
- 3 valves closed (isolation - compressor - recharge)

STARTING

- Fuel tanks selector OPEN
- Magnetos M1M2
- AIR isolation valve OPEN
- Pull the starter and release as soon as you start

AFTER STARTING

- AIR isolation valve CLOSED
- Open the AIR compressor valve
- Look at AIR pressure gauge
- When stabilized AIR pressure (30 Hpz) close the compressor valve

Zero AIR pressure

If the AIR pressure is zero, the AIR recharge valve is used to inflate the AIR bottle with an external source.

On the model >>> open the AIR recharge valve and close after use

>>> The engine can also be started with the automatic control of the simulator ("flight menu" then "start engines")

PROPELLER PITCH COMMAND



1 - MODE selector (inactive)

2 - Manual adjustment of the propeller pitch

3 - Minimum pitch light (high RPM)

4 - Maximum pitch light (low RPM)

The Nord1101 Ramier is equipped with a variable pitch propeller whose pitch, and thus the rotation speed , can be adjusted manually, but also automatically depending on the flight case related to the position of the throttle (RATIER system)

On this model, only the MANUAL mode is functional

In STOP mode the step keeps a fixed value

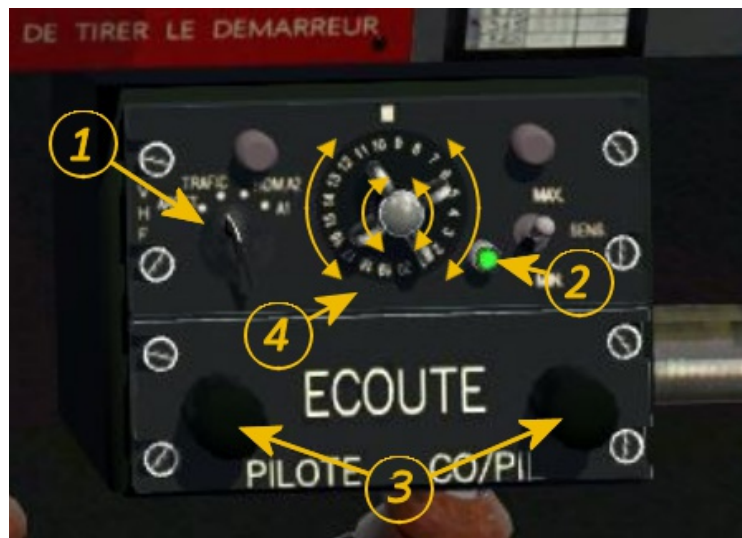
In MANUAL mode you can adjust the pitch by clicking on the lever (2):

- to the left (3) to decrease the pitch (increase the propeller speed)
- to the right (4) to increase the pitch (decrease the propeller speed)

If you use a joystick programmed on the propeller control AXIS two possibilities:

- to use the propeller control panel described above leave your controller in FULL SMALL PITCH (high speed) position
- or normally use your joystick control axis

RADIO COM CONTROL UNIT



Battery switch and breaker "TSF" >> ON

1 - ON / OFF switch

2 - VHF light

3 - Click on one of the two wheels to display the X-plane430 window

4 - Frequency selector

outside arrows >> Mhz setting

inner arrows >> Khz setting



The selected frequencies are read on the GPS



DISPOSITIONS LEGALES

This model is the property of Restauravia. It's distributed as freeware on the Restauravia site .

Any distribution of this model, or part of the model, modified or not, by any means is prohibited.

However, the distribution of textures on any site is allowed, provided it's done for free as a supplement to the basic model.



The Restauravia team thanks all those who participated in this project or who contributed indirectly to its realization.



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). You will probably 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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