SNCAN Nord 1101 Ramier

version 1.0 Prepar3D v4 (64 bits)

and version 1.0 Flight Simulator X Acceleration

English version manual

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 FOR PREPAR3D AND FSX

Model :   André Chancel

Textures :   Marc Hardouin

Sounds :   Jean-Michel Renaux

Flight dynamics :   Jean-Pierre Bourgeois (BeeGee)

The North 1101 RAMIER had already been the subject of a first modeling for Flight Simulator 9 by Restauravia in 2006

The model proposed here is the result of a completely new project for Prepar3D v4 (64-bit version). An adaptation of this model is also made for Flight Simulator X Acceleration.

Make sure to use the version corresponding to your simulator

- Nord1101Ramier_P3Dv4_v1.0.zip
or - Nord1101Ramier_FSX_v1.0.zip

This manual applies equally to both versions

invitation to travel ......

FRONT PANEL

1 - Aerator (*)

2 - Pitot heat light

3 - FIRE alarm

4 - Extinguisher command

5 - Manifold pressure

6 - Turn indicator

7 - Propeller setting panel

8 - Tachometer

9 - Fuel tanks selector

10 - Magnetos selector

11 - Landing gear position

12 - Anemometer

13 - Attitude indicator

14 - Vertical speed indicator

15 - Altimeter

16 - Gyro-compass

17 - Compass

18 - Cabin lighting button (**)

19 - VHF COM radio

20 - Fuel tanks gauge

21 - Fuel pressure

22 - Clock

23 - Oil pressure

25 - Depressed air distributor (***)

26 - Static pressure selector

27 - Hydraulic pressure
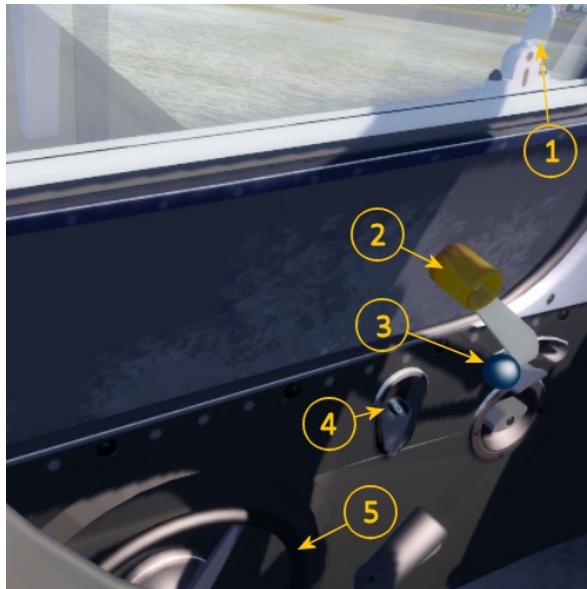
28 - Starting AIR pressure indicator

KNOBS   COMMAND

- left/right click > quick setting

- mouse wheel > fin adjustment
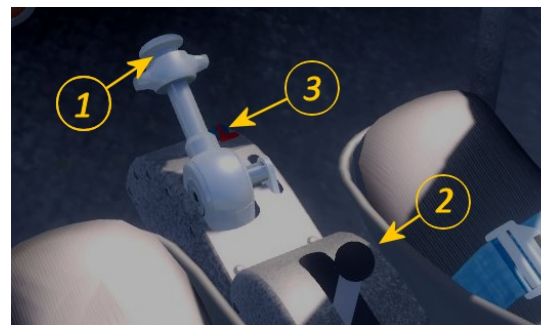
(*) unfunctional   (**) compass lighting on the real plane   (***) click a button to activate turn indicator - attitude indicator - gyro-compass
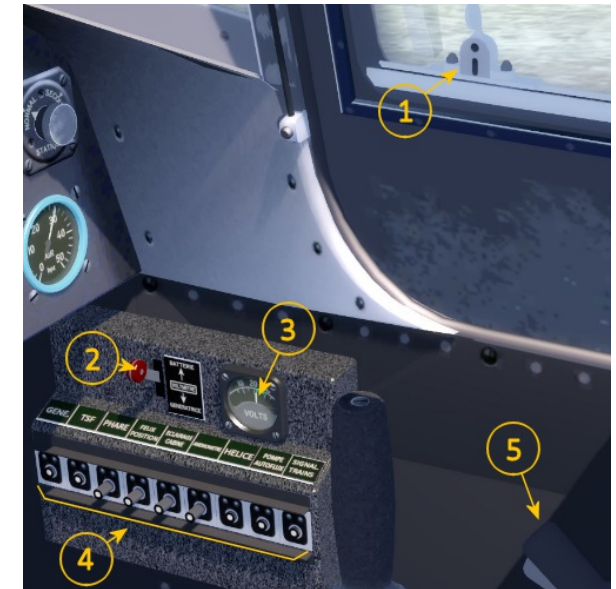
OTHER COMMANDS

Cliquer pour ouvrir / fermer les portes

1- Open / close left window

2 - Throttle lever

3 - Mixture lever   (RICH > backward !)

4 - Flaps position

5 - Flaps command

1 - Landing gear lever

2 - Pitch compensator lever

3 - Gear emergency switch

1- Open / close right window

2 - Voltmeter selector (battery <> generator)

3 - Voltmeter

4 - Breakers

5 - Landing light lever

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

AIRCRAFT CONFIGURATION BEFORE FLYING

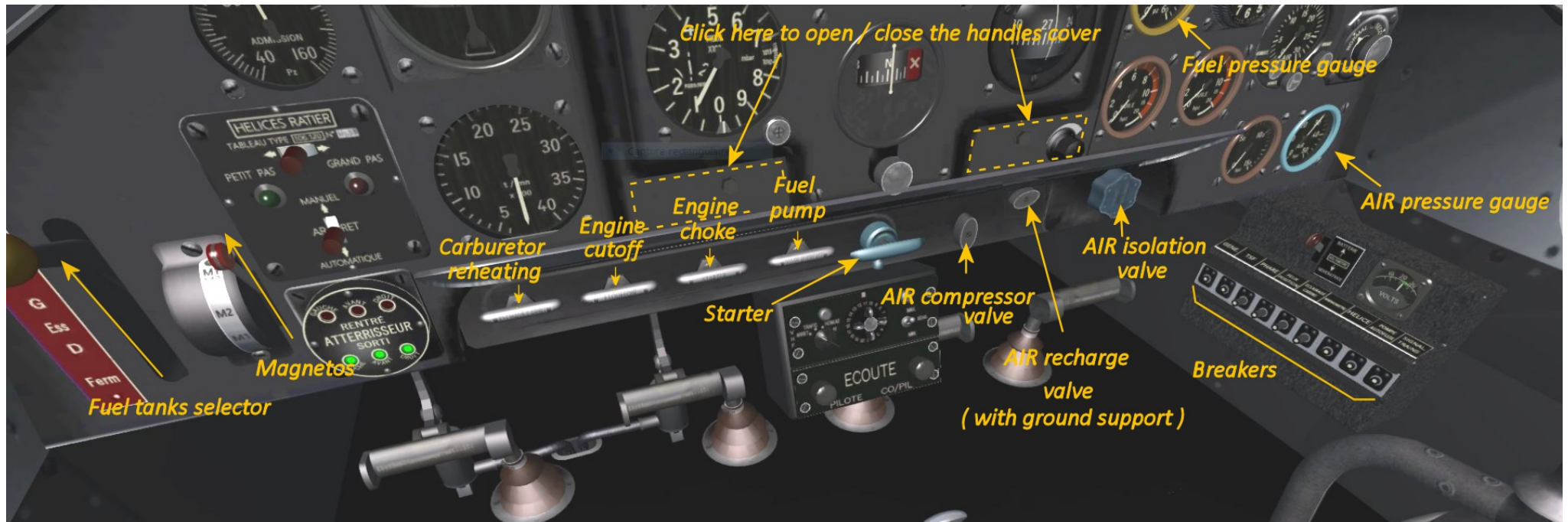Open / close the control panel using the Panel2 command (SHIFT + 2 by default)

The Nord1101 has two main tanks (2x70 liters) in the center plane of the wings and two auxiliary tanks (2x60 liters) in the wings. The fuel is consumed first in the auxiliary tanks (reverse order for filling).

On the model the fuel level can be adjusted before the flight using the control panel by pressing the arrows (left click or mouse wheel)

STARTING   PROCEDURE

Click here to open / close the handles cover

Fuel pressure gauge

AIR pressure gauge

Fuel pump

Engine choke

Fuel cutoff

Carburetor reheating

Engine cutoff

AIR isolation valve

Starter

AIR compressor valve

Magnetos

AIR recharge valve
(with ground support)

Breakers

Fuel tanks selector

| BEFORE STARTING	STARTING	AFTER STARTING
- Breakers (as required)	- Fuel tanks selector OPEN	- AIR isolation valve CLOSED
- Open the controller cover (under panel)	- Magnetos M1M2	- Open the AIR compressor valve
- Carburator reheating (as required)	- AIR isolation valve OPEN	- Look at AIR pressure gauge
- Pull fuel pump handle	- When stabilized AIR pressure (30 Hpz) close	- When AIR pressure
- Look at fuel pressure gauge	the compressor valve	
- 3 valves closed (isolation - compressor - recharge)		

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 (CTRL + E by default)

PROPELLER   PITCH   COMMAND
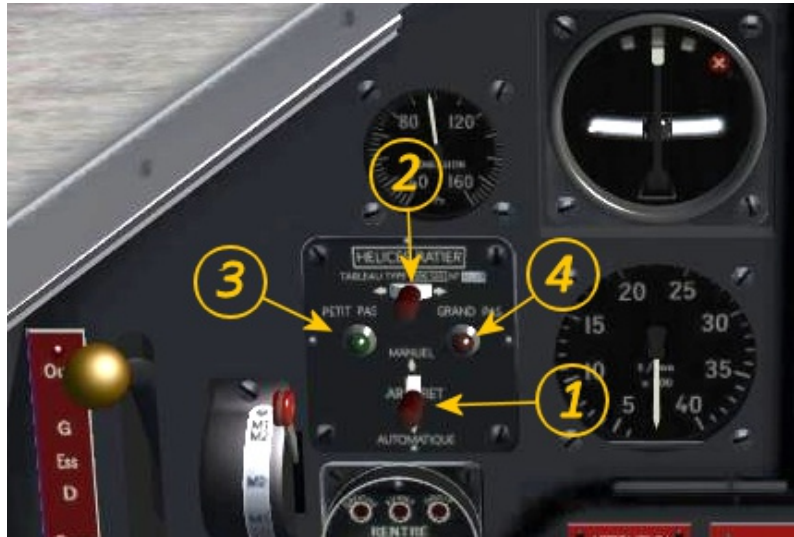
1 - MODE selector (*)

2 - Manual adjustment of the propeller pitch (*)

3 - Minimum pitch light (hight RPM)

4 - Maximum pitch light (low RPM)

(*) left / right click

The propeller control panel allows ("HELICE" breaker ON) selecting a MODE ("AUTOMATIQUE" - "MANUEL" - "ARRET ")

- On "ARRET" mode the propeller pitch keeps a fixed value
- On "MANUEL" mode the pitch is set by action on the upper inverter. A light flashes on the limit values.
- On "AUTOMATIQUE" mode the pitch is adjusted according to the position of the throttle

On the model the different modes are functional.

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

- to use the propeller control panel described above leave your controller in minimum pitch (high RPM) position
- if you choose to use your joystick, set the MODE selector on the control panel above to "ARRET"

RADIO COM CONTROL UNIT

Circuit breaker "TSF" switched on:

1 - ON / OFF switch

2 - Frequency selector

    quick setting >> right click / left click

    decimal adjustment >> mouse wheel

    >>>> The selected frequency appears on the tooltip

3 - Interphone control panel (unfunctional)

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 installation of FSUIPC (free or paid version) is required

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

Special thanks to Doug Dawson (https://www.douglassdawson.ca/) for his help to designers by developing many tools that are widely used by our team.

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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