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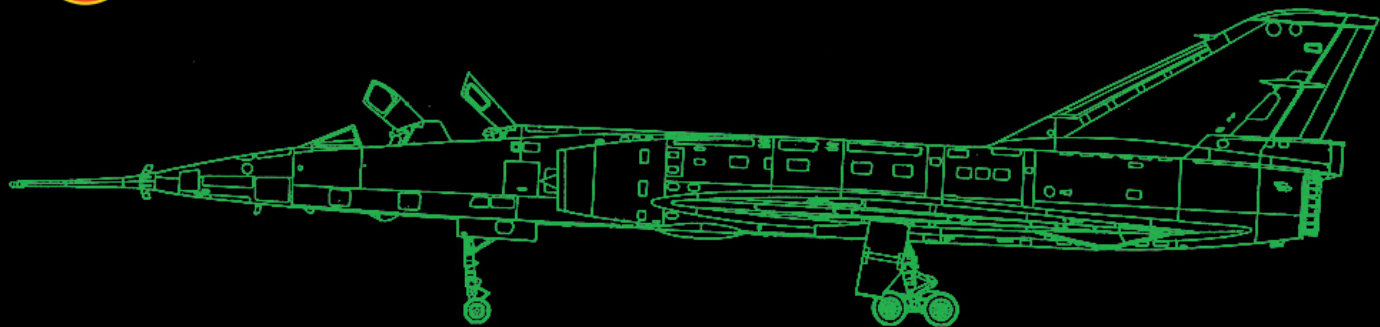
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DASSAULT Mirage IV A - P



Roland Laborie :Cokpit virtuel, modèle extérieur.

Jean Pierre Langer:.....Instrumentation , panel 2D.

Jean Pierre Bourgeois (Beegee) :Dynamique de vol-Check liste.

Pierre Brendle: Ancien pilote Mirage IV , conseiller technique dynamique de vol, testeur.

Benoit Dubé : Mise au point fichiers Aircraft - Traduction documentation en langue Anglaise.

Caractéristiques

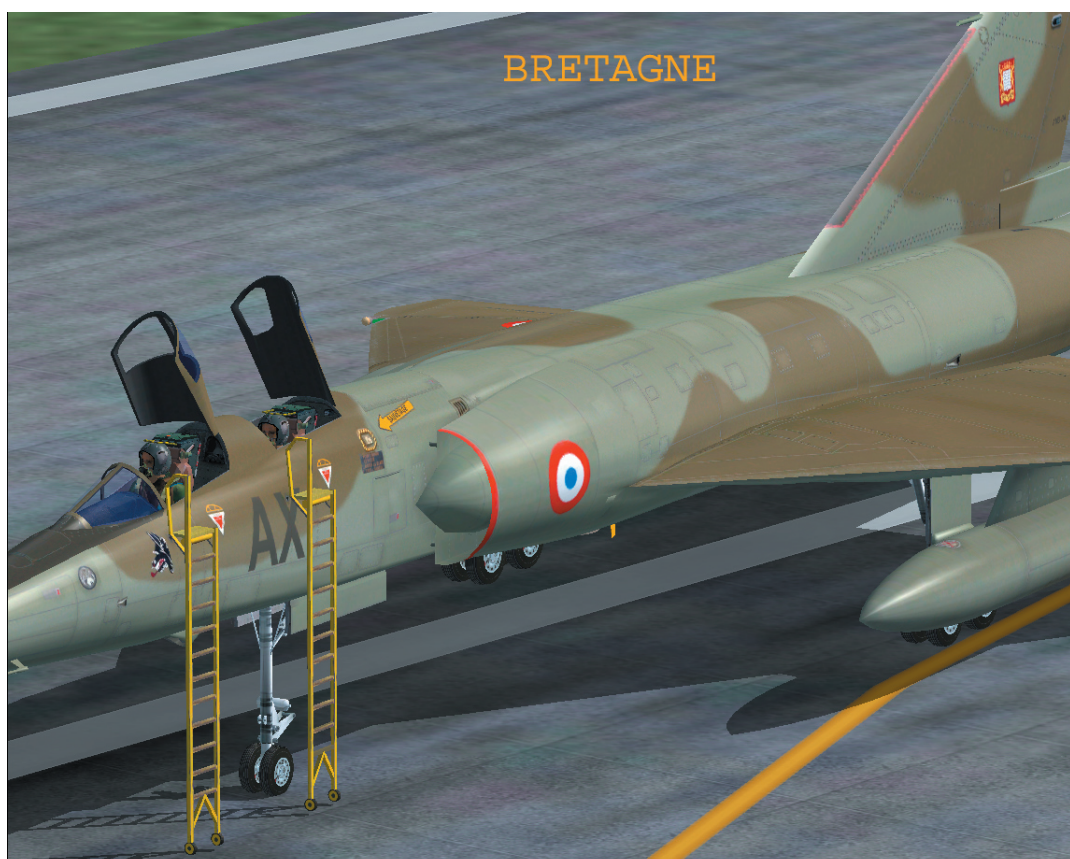
Equipage:2 (pilote + navigateur)
Envergure:11.84 m
Longueur:23.32 m
Hauteur:5.65 m
Surface alaire:..... 78 m²
Masse à vide:..... 14 500 kg
Masse maximum:..... 33 800 kg
Rayon d'action tactique:2160 nautiques (4000 km environ) sans ravitaillement en vol.
Plafond:..... 67 000 pieds (20 000 m)
Vitesse de croisière:Mach 1.8 (1 970 km/h)
Vitesse maximale:Mach 2.2 (2 350 km/h)
Moteur:2 réacteurs SNECMA Atar 9-K-14 : 2x4700 kgp (2x6700 kg avec post combustion)

The Mirage IV is a heavy bomber with delta wing conceived for strategic air force. His role within the air force was to assure nuclear dissuasion.

The archetype of the Mirage IV performed its first theft on June 17th, 1959, as for the first aircraft of series; it performed its first theft in December 1963. In February 1964 the air force receipt this first copy. Later 9 companies of bombing as well as a company of education will be equipped with Mirage IV. The air base of Mont of Marsan, Cazaux, Istres, Orange, Creil, Luxeuil, Cambrai, Avord, Saint-Dizier, received these aircrafts, these could take the AN 21 bomb or a photographic container CT52.

In total 62 aircrafts were constructed.

Career of fabled Mirage IV came to an end in 2005. Here are models represented in this package:



N° 25 F-THAX insignes SPA 79 et SAL 28 EB 1/91





N° 53 F-THBZ



N° 59 F-THCF



N° 53 F-THBZ UN



N° 56 F-THCC



- Models are equipped with a virtual cockpit, Jean Pierre Langer's instruments are adapted to the virtual cockpit and to the right and left lateral banks

Virtual cockpit and features

The programming of the system of starter of engines 1 and 2 in mode virtual cockpit emotionally differs from the mode 2 D of Jean Pierre Langer. (Non-synchronization of switches «aeration») - To perform a start correct it is necessary to choose one of 2 modes, but first of all it is necessary to be sure that in the mode 2 D all switches are positioned on stopping.

- in mode virtual cockpit all switches on stopping.

Starting 1 and engine 2 in virtual cockpit:

- switches ignition-aeration on ignition.

- switches pumps low pressure on step.

- fireproof switches to close (high position)

- action on the buttons of starter, to support pressure up to rise in regime of the concerned engine. - if starter fails: Start again procedure by being sure that on the 2 D mode starter , switches are positioned well on stopping.





1 - functioning of motors Jato.

Blast-off of rung out JATO for takeoff can be made to leave:

- of the virtual cockpit.
- or by pressing keys keyboard Shift + F4

Procedure:

- operate the switch preparation JATO
- Post combustion full pot. - operate the button tappet blast-off JATO (or Shift+F4) - (Length of functioning about 27 seconds, above 200 Kts; motors cannot be put in function.)





In automatic mode: 2 exits of mouses are envisaged, the first near the first Mach, the second near Mach 1.8

Example subsonic speed.



Example supersonic speed about Mach 1

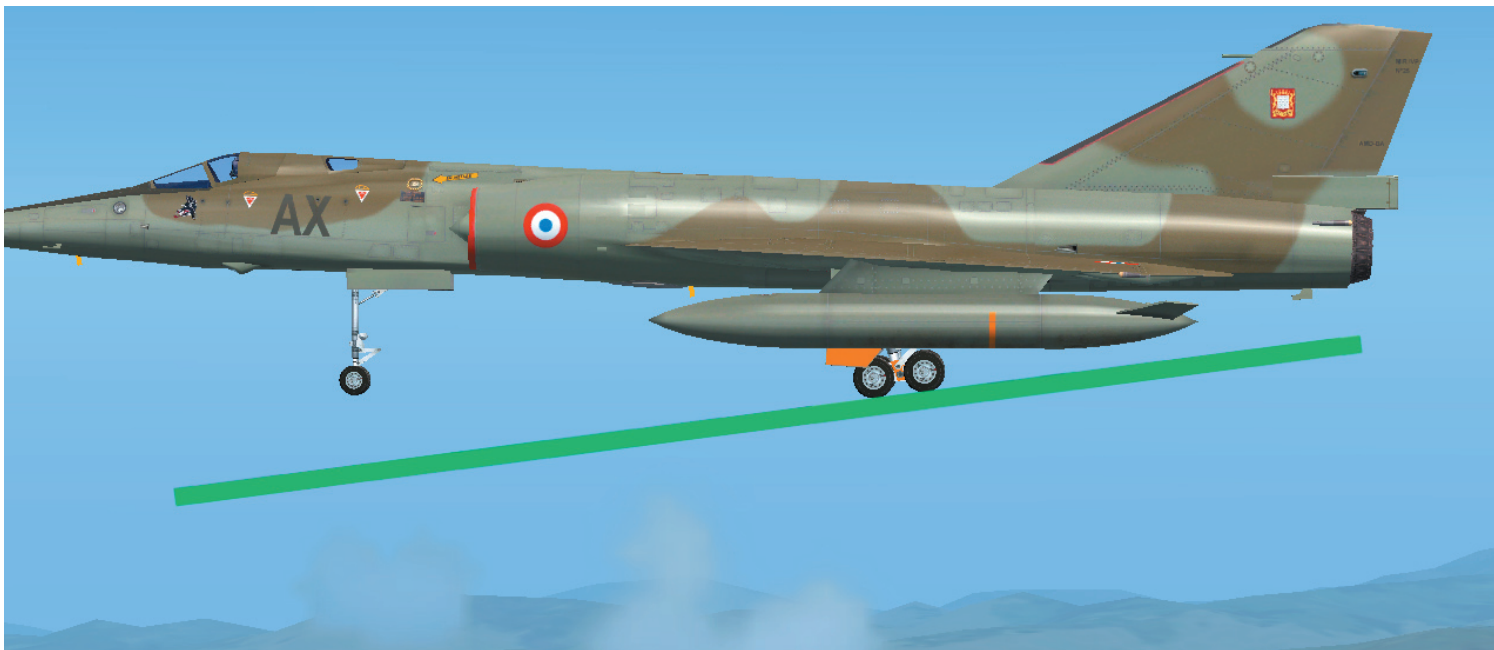


Example supersonic speed about Mach 1.8

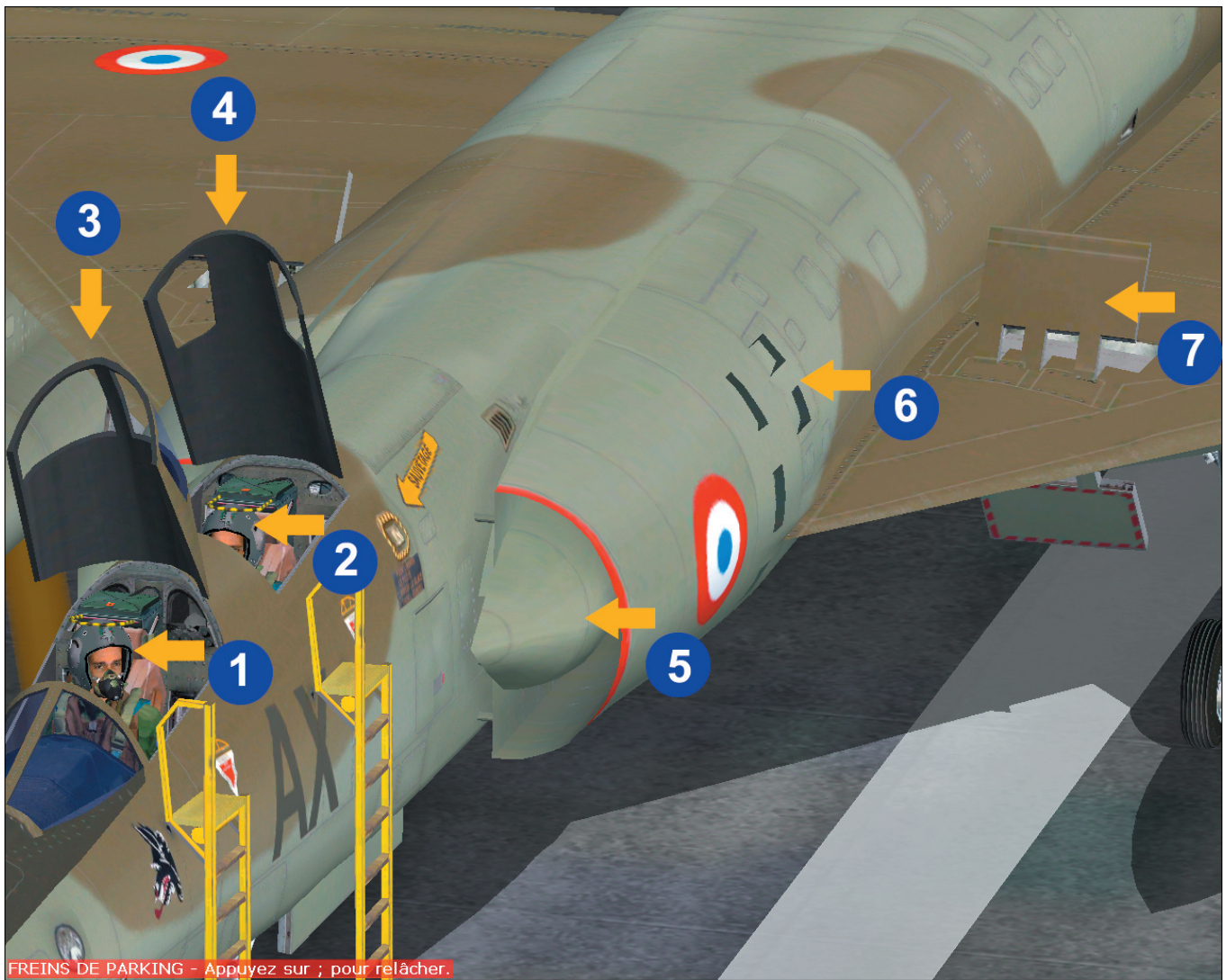


4 - incline of bogies.

- during the unloading of the ballast of the plane bogies bow.



ANIMATIONS



1 - movement head of the pilot.

1-2 - visors helmet pilot and navigator.

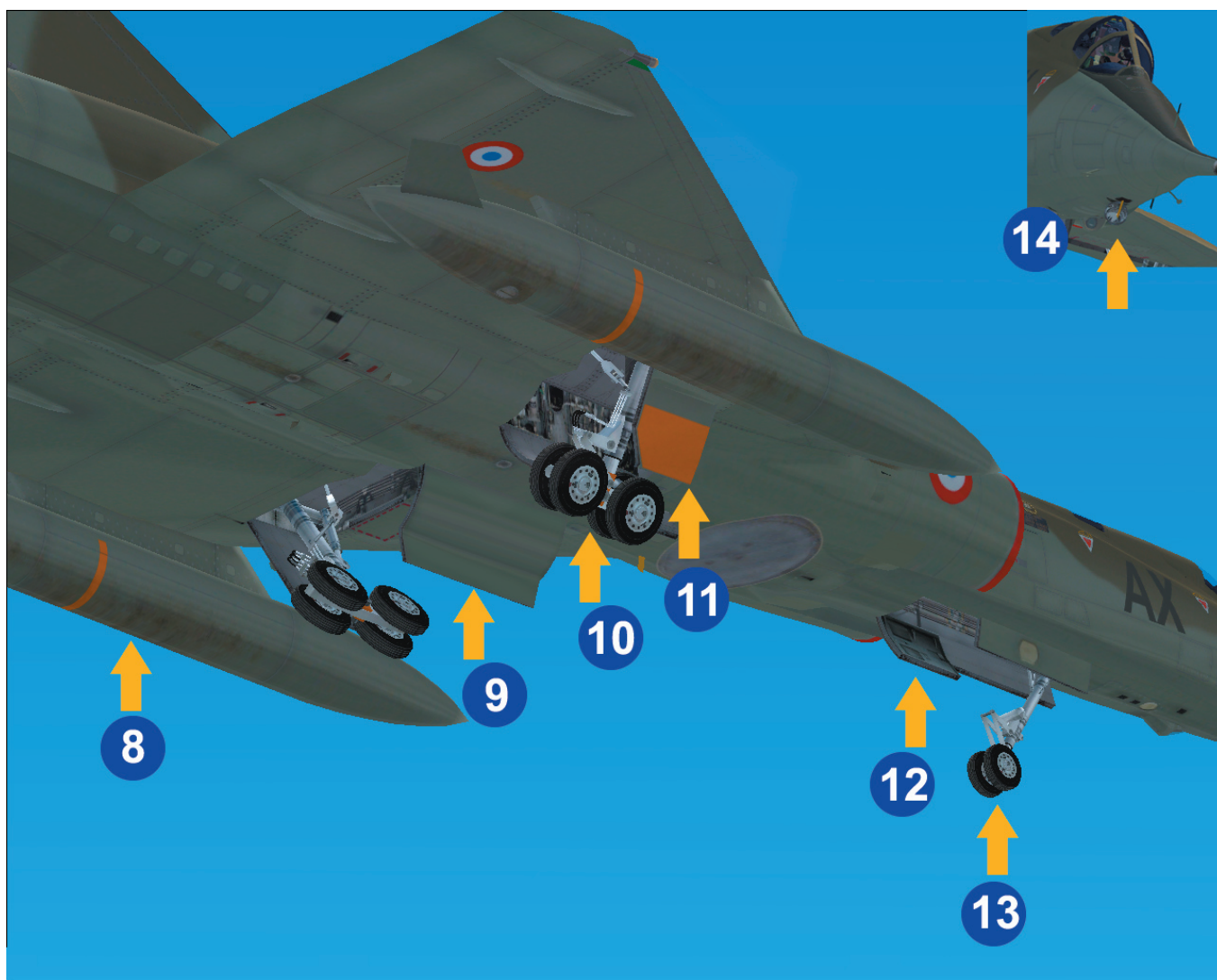
3 – front canopy.

4 – rear canopy.

5 - mouses (cones).

6 - additional doors of the entries of air.

7 - air brakes.



8 – drop tanks. * see material “ Instructions Main board 2D of the Mirage IV of Jean Pierre Langer “.

9 - main door main gear.

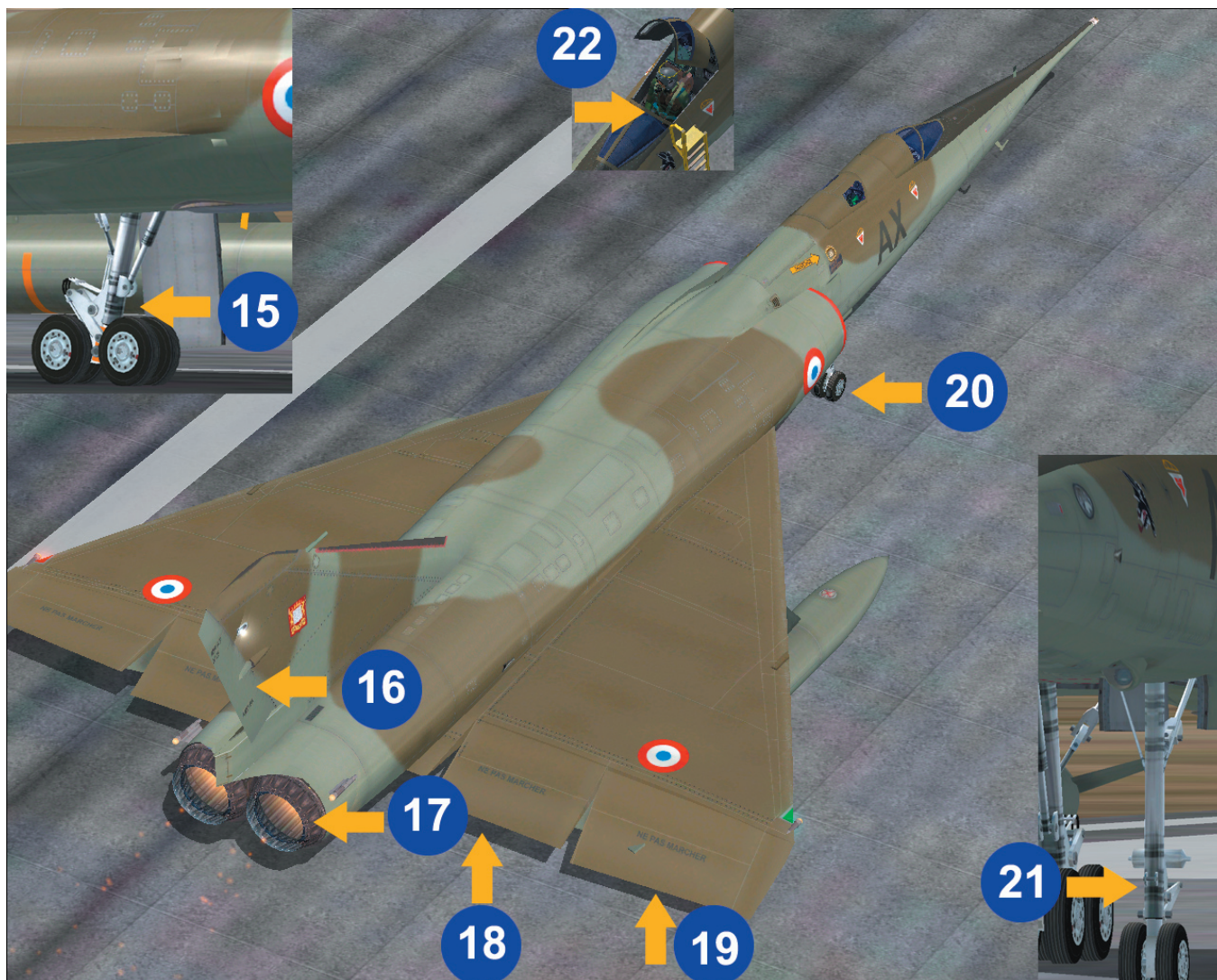
10 - main gear.

11 - main lateral doors.

12 – front door gear.

13 - front gear.

14 - Landing light.



15 - amortisseurs main gear.

16 - rudder.

17 - petals engine.

18 - elevator.

19 - aileron.

20 - direction wheels fronts.

21 - amortisseur front gear.

22 - Stick-lever throttle.

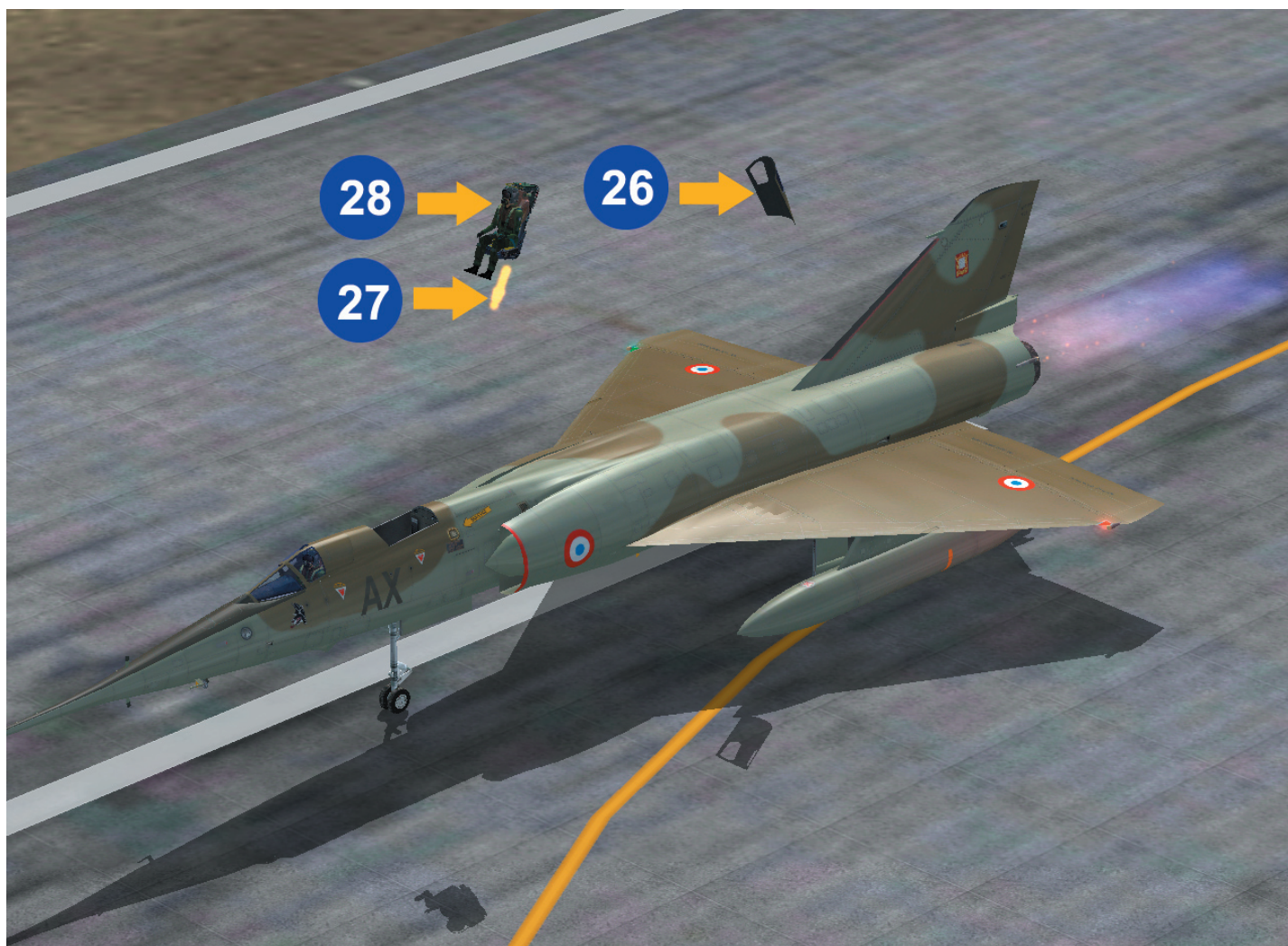


23 – Front canopy ejection.

24 - fall of the legs of the pilot.

25 -pilot ejection. Action on the low handle of ejection.

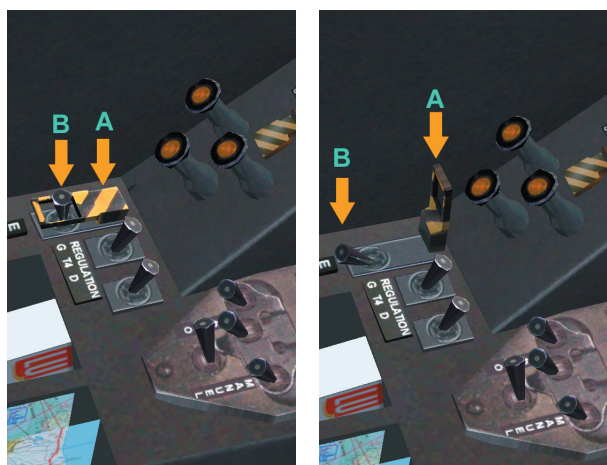




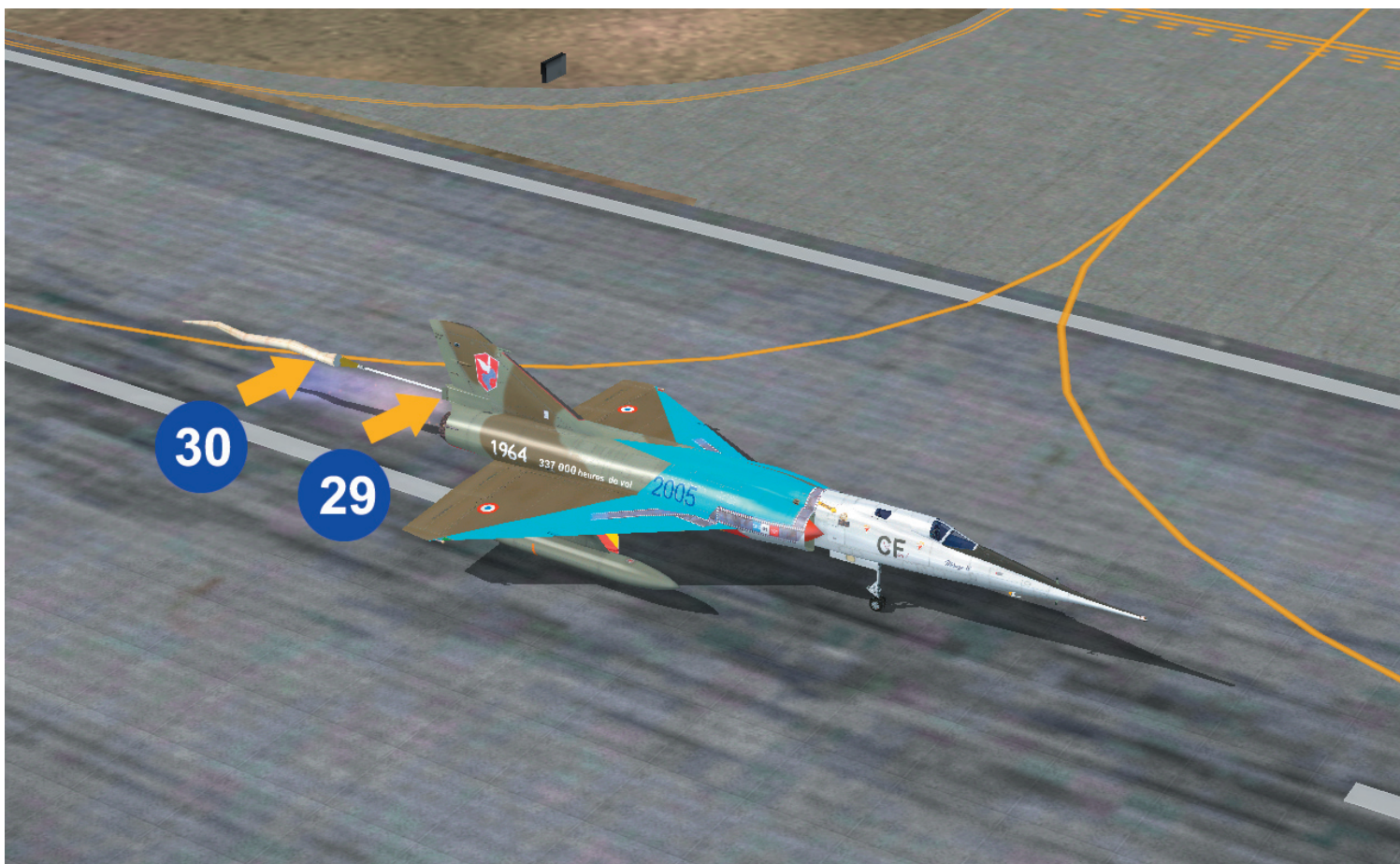
26 - ejection back canopy.

27 - fall of the legs of the navigator.

28 - navigator ejection.



Raise the hood « A » operate the switch « B » * NOTE fire is visible only if the plane is in functioning after burner.



29 - opening of the doors of the container parachutes brake.

30 - taken out parachute. * see material « Instructions main board 2D of the Mirage IV of Jean Pierre Langer ».



31 - deployment parachute.



32 - dropping parachute.

· RECALL you can use a key keyboard to operate the parachute brake, the key is linked to order deployment of wings, example Shiftj+A.



33 - Commands parachute Brake.

34 – Emergency canopy ejection .

NOTES if the canopies are opened during the flight, they are ejected. (speed above 48 kts)

35 – ground security, visible if the canopy is opened, idem for the ladders of access cabin.

36 – Emergency lever gear.



37 - hood of dropping of motors JATO.

38 - hood of the switch of dropping of all material wings.



39 - switch of dropping of motors JATO.

40 - switch of dropping of all material wings. (launcher, support, tanks, pod)

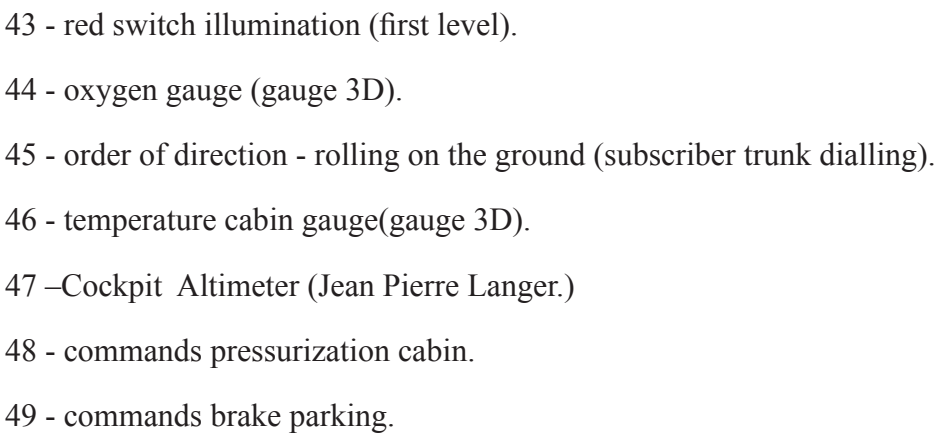


41 - dropping of motors JATO. Dropping can also be made by a key keyboard « hook of ,example Shift + Q

LIGHT



42 - key switch landing light and white illumination.



SANS ECLAIRAGE

No light





***** checklist of Beegee is incorporated in the electronic bar. ***** NOTED the French version can be replaced by English version.

50 - rudder pedals. (activ, + automatic regulating according to the selection of the pilot aboard).

- consult the material of Jean Pierre Langer “ Instructions main board 2D of the Mirage IV “ for functioning and description of instrumentation.



51 - Switch of selection of the pilot aboard, to click on the hood of the switch.



- 52 – lever throttle; engine 1, engine 2.
- 53 - left arm pilot.
- 54-stick.
- 55-legs pilot.
- 56 - right hand pilot.

Follow signal ties in the cabin for other animations (switches battery, fires, alternators, various objects, breakers, jacks of canopy ejection, and so on) - Some switches are active but not functional.

RECALL

Certain animations as the activation of the parachute brake are linked to a programming in format Gau, that's why it is preferable to pass by a view 2 D of the performance indicators, before passing by an outside view or 3D, the same is true of so that the after burner is visible. Those who like to fly in virtual Cockpit only and to have after burner and these active animations directly in mode 3D, can test this modification in the panel.cfg:

Annihilate the following line by inserting one X in front of.

[Window00]

file=Mirage4_Empty.bmp

size_mm=1024,768

window_size_ratio=1.000

position=7

visible=1

ident=40

Xgauge00=Mirage4_Instr!Engine_On, 0, 767, 1, 1

and insert the same line in:

[Vcockpit01]

file=\$cvM4p.bmp

Background_color=0,0,0

size_mm=1024,1024

visible=1

pixel_size=1024,1024

texture=\$cvM4p

gauge00=Mirage4_Instr!Standby_Attitude, 244, 421, 154, 154

gauge01=Mirage4_Instr!Standby_Altimeter, 121, 420, 111, 106

gauge02=Mirage4_Instr!Airspeed_Machmeter, 245, 269, 145, 145

gauge03=Mirage4_Instr!Altimeter, 643, 281, 149, 149

gauge04=Mirage4_Instr!Accelerometer, 597, 153, 107, 107

gauge05=Mirage4_Instr!Vertical_Speed_2500, 131, 305, 103, 103

gauge06=Mirage4_Instr!Homing_Indicator, 411, 515, 138, 138

gauge.....=Mirage4_Instr!Engine_On, 0, 767, 1, 1

* insert the following number for the gauge

Laborie Roland , Mars 2008.