



1. Introduction - Target Group for “Ultimate Airbus A32x V2”

The basic idea behind this package is to ease flying the WILCO Airbus Volume 1 (models A318, A319, A320 and A321) in respect to opening and closing various panels (currently covering the complete view) as well as to automate certain parts of flight procedures.

This package is therefore targeted at users flying the WILCO Airbus Volume 1

- Preferring the 2D-panel instead of the virtual cockpit
- Searching for an add-on which offers smaller sub-panels (for certain functionality like engine start) instead of always using the big pedestal or overhead panel covering the complete screen
- Missing certain panel animation e. g. cockpit light and handling doors
- Wanting to have more views like left and right wing
- Looking to get some “procedure automation” by using a Co-Pilot e. g. to arm or disarm spoilers, switching on and off lights, setting gear up and down etc.

2. Content of “Ultimate Airbus A32x V2” (Overview)

- 2.1. Newly added smaller sub-panels like p. e. ATC- , MCDU-, ECAM-, Radio-, Light-, Flap Lever- and Clock-panel opening on top of the main panel and not covering the complete main panel view.
- 2.2. Click spots for all original panels available in WILCO Airbus Volume 1 and also all newly added sub-panels – please see the picture below - :



Picture 1: Available click spots



- 2.3. Click spots for left and right wing view
- 2.4. Working cockpit light - and door switches are added to panels (doors now cannot be opened when engines are running)
- 2.5. Procedure automation by “using” the “Co-Pilot” to arm or disarm spoilers, switching on and off lights, setting gear up and down etc.
- 2.6. Original Airbus list (adapted to WILCO Airbus Volume 1 functionality) of all procedures with highlighted functionality performed by the “Co-Pilot” (marked in bold green).
- 2.7. Detailed Tutorial Flight from Frankfurt (EDDF) to Vienna (LOWW) considering the functionality newly offered by this package

3. Content of “Ultimate Airbus A32x V2” (Details)

3.1. Newly added sub-panels

The following sub-panels are newly added and can be accessed using the click spots as shown in [Picture 1: Available click spots](#). To close the panel just click on the same spot again or use the spot on the upper right corner of the panel itself.

3.1.1. ATC



Picture 2: ATC Panel

3.1.2. STARTER



Picture 3: Starter Panel

Opens automatically before push back when engines are “OFF” and parking brakes are released (if Co-Pilot functionality is “ON”)

3.1.3. LOWER – OVERHEAD



Picture 4: Lower Overhead Panel

3.1.4. ECAM



Picture 5: ECAM Panel

Opens automatically before Takeoff after flaps are brought into TO position (if Co-Pilot functionality is “ON”).

3.1.5. RADIO



Picture 6: Radio Panel

3.1.6. FLAP LEVER



Picture 7: Flap Lever Panel

Opens automatically during Approach Phase when S-speed is reached and closes 200 feet above ground level (if Co-Pilot functionality is "ON")

3.1.7. OPTIONS

There are also two optional click spots available if "MAP" (displaying flight plan information based on an FS flight plan) and "CALL" (audio checklist) are used. Those programs are developed by WILCO and Feelthere especially for the WILCO Airbus series. Detailed information on those programs can be obtained from their home pages.

3.2. Click spots added

The standard icons for various panels / views have been removed. But click spots are now available for all original panels available in WILCO Airbus Volume 1 and also all newly added sub-panels. Location of the various click spots can be seen in [Picture 1: Available click spots](#) . To close the panel just click on the same spot again or use the click spot on the upper right corner of the panel itself.

3.3. Added panel functionality

Working cockpit light is added to the Pedestal



Picture 8: Cockpit Light Knob

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Door push buttons (left and right) are added to the overhead panel – if the “orange” light is on it shows that the respective doors are open. Doors can only be opened only if both engines are OFF and the parking brakes are set.



Picture 9: Door Push Buttons – doors are open

3.4. New Procedure Automation “Co-Pilot”

If procedures according to the Airbus Checklist are kept and certain conditions are met p. e. during take off a level of 50 feet above ground is reached, automatically the gear goes up and the spoilers are disarmed. The complete content of this functionality is described in the following table:

No.	PHASE	CONDITION:	ACTION – “CO-PILOT”:
1	Cockpit Preparation	“Co-Pilot”: ON , Battery ON	Navigation Lights ON
2	Before Pushback	Engines OFF , Parking brakes Released	Starter Panel OPEN
3		Engines OFF , Parking brakes Released	Beacon ON
4	Taxi	Engines N1 > 23%	Spoilers ARM
5	Before Takeoff	Flaps TO Position	Strobes ON , Landing Lights ON
6		Flaps TO Position	ECAM Panel OPEN
7	Take Off	50 Feet	Gear UP , Spoilers: DISARM
8		S-Speed	Flaps UP
9	Climb / Descent	10.000 Feet	Landing Lights OFF/ON
10	Approach	Approach Phase O-Speed	Flaps 1
11		Approach Phase S-Speed	Flap Lever Panel: OPEN
12		Glide-slope captured	Gear DOWN , Spoilers ARM
13		200 Feet	Flap Lever Panel: CLOSE
14	Landing	Touchdown	Autopilot OFF
15		70 Kt	Reverser OFF
16		35 Kt	Auto brakes OFF
17	After Landing	12 Kt	Flaps UP , Spoilers DISARM , Strobes OFF , Landing lights OFF , Anti-Ice Wings and Engine OFF
18	Parking	Engines 1&2 N1 < 1%, Parking brakes SET	Beacon OFF

Table 1: Procedure Automation

This “Co-Pilot” functionality can be switched on / off using the newly added push button “GND CTL” on the overhead panel.



Picture 10: Push button “Co-Pilot”



3.5. Airbus A320 list of procedures

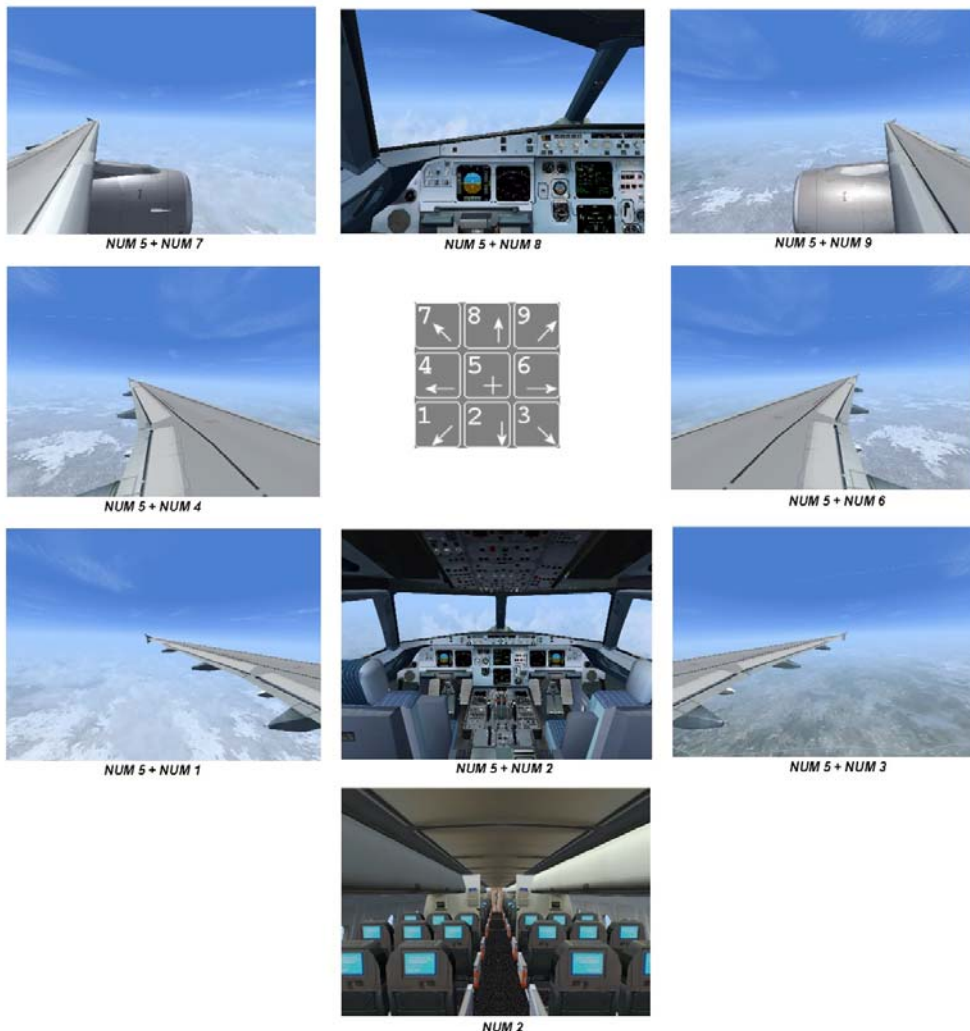
Based on the original Airbus document one in content and sequence modified procedure- and check list has been prepared for the WILCO A320 CFM. This new list is included in this package and all functionality performed by the “Co-Pilot” has been marked in bold green.

3.6. Detailed Tutorial Flight Manual

As the tutorial flight available in “WILCO Airbus Pilots Guide” is according to our experience not very much suited for beginners (details are missing as well as the flight plan file) we thought that a new detailed tutorial flight manual, based on original Airbus procedures and also considering the functionality offered by this package, could be a great help to understand the Airbus philosophy and this add-on.

4. Views

The various views can be accessed as follows:



5. Installation

It is important that before installing this package you should make a backup of the various existing “panel.cfg” files in all folders of the WILCO Airbus Volume 1 p. e. by renaming the file to “panel_original.cfg”.

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Those files can be found in your FS-folder “C: \Programs\Microsoft Games\Flight Simulator\Aircraft\feelThere PIC A320\panel” – and instead of “A320” also in the folders called “A318”, “A319”, “A319CJ”, “A319IAE”, “A320IAE”, “A321” and “A321IAE”.

5.1. Panel Configuration File

From the zip-file extract the files “panel.cfg” (specific for every model) to all previously mentioned folders e.g. replacing the original WILCO panel.cfg file (already renamed to panel_original.cfg) for all A318, A319, 320 and 321 models.

5.2. Gauge File

From the zip-file extract the file “FT_A32x_Mod.CAB” into the folder “C: \Programs\Microsoft Games\Flight Simulator\Gauges. Please do not open or unzip this file – just extract the zip-file into the a.m. folder. If you already used “Ultimate Airbus V1” please overwrite the existing folder.

5.3. Documentation

Unzip all the other documentation pdf-files e.g. this file, the Airbus Procedure List as well as the Detailed Tutorial Flight to any other folder you like.

6. Support

If there are still open questions or support is needed please contact
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