Flying Fries Gabriel

Blackshape — BK160-TR, Gabriél

USER MANUAL



Version 1.1







A word from (and Frites

Thank you very much for buying this latest add-on from Flying Fries. It's the third aircraft from a very small company (it's still just only me!) and your purchase, your help, means a lot.

The philosophy of Flying Fries hasn't changed since I created the company in 2023; I want to craft great products for Flight Simulator. Products that I will have fun with and that I will be proud of. My main goal is to create the best possible experience. I'm not looking at this from a business perspective. So, if it takes me a year to build a small GA aircraft, so be it! As long as the end product is fantastic, that's fine.

You may have also noticed that I am constantly updating my previous products. I will apply the same principle to the Gabriel. New features, implementations of your best ideas, this is not over!

But if you want something to be added/fixed, don't hesitate, join the Flying Fries Discord and share your ideas.



Let's close this introductory text with a big thank you to the brilliant people who still stick with me, and offer their expertise in testing and tuning my aircraft. If Flying Fries can compete with bigger companies in terms of bugs or overall quality, it's also thanks to Steiny, who is my personal flight model genius, but also 1L2P, Pseud, VisualDarkness, Newtonius, Maximus, Chrisdu22, and a few other people who make laser-sharp observations and reports during the alpha and beta tests. The quality of their feedback, their brilliant suggestions, I really think it all shows in the final product.

One last time before I start writing this user manual, thank you all for your trust and I really hope you will enjoy this Gabriel, and all the future (and epic) aircraft I'm planning to create next 😌

W FLYING FRIES

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Revision table

- 2025-03-08 Initial version of the user manual.
- **2025-04-02** Updated the known bugs list, changed the AP unit paragraph (GMC 307 > GFC 500) and completed the G3X Touch paragraph.

The Gabriel

Let's unravel the story that led to the Gabriel, to better understand its origins, its philosophy and why there are a few other aircraft with almost the same look...

Blackshape

Blackshape Aircraft is an Italian company, based in Monopoli and founded in 2009 by Luciano Belviso, 25 years old at that time, an engineer who was born about two months after me. — It really makes me wonder what the hell I have done with my life so far?

I won't copy whole Wikipedia articles, but Blackshape's first project started after they bought the plans and design of the Millennium Master, a carbon fiber modernized remake of the Asso X, a beautiful, tandem-seat ultralight made of wood.

A few years later, Tarragon will also start their own remake of the same ultralight... But let's focus on our own story: Asso X \rightarrow Millenium Master \rightarrow Blackshape Prime.

Prime

So, the Blackshape Prime, BS100. A high performance carbon fiber ultralight with a 100 hp Rotax engine is introduced to the world in 2009 (the year the company was founded, yes).

It looks like a (small) PC-21 but does not perform like one! Although, thanks to its exceptional aerodynamics, it really is a great aircraft, capable of cruising at 150 knots.

What about General Aviation?

A good ultralight is a great thing, but could there be more to it?

Looking at all the GA flight schools around the world and seeing that everyone is still learning aviation aboard old Cessnas 150/152, Blackshape thought that there might be an opportunity...

Maybe the PPL world would like to embrace the new century. With carbon fiber, with a glass cockpit, and with the same training philosophy as military aviation: tandem seating, so the student can really experience being "alone" in the cockpit, while the instructor is still very much there, looking over his shoulder.

What would it take? They already have the perfect design with the Gabriel... It just needs a little bit more muscle to be certified as a GA aircraft.

No problemo!

Gabriél

In 2017, Blackshape unveils the Gabriél. Powered by a Lycoming IO-320, with an empty weight of 530 kg, it has the same smooth, thin and exceptionally efficient design as the prime (and the few other ultralights before it and since).

It features the most advanced avionics you can put in a GA aircraft: Full Garmin touchscreen (G3X) + Garmin backup displays (G5) and other Garmin autopilot (GFC 500), audio panel (GMA 350) and secondary COM/NAV device (GNC 255).

Today, in 2025, we are still at the beginning of the adventure for this Gabriel. Who knows if it will succeed in finding a place next to the good old and reliable Cessnas in our flight schools? But what we can say for sure is that it is a really sexy aircraft!

Before anything

I'm sorry but I have to write a heavy topic before I start with the fun stuff...

Flight simulation is a great hobby. It is technical, it is relaxing, it is rewarding, and group flights are always incredibly fun. But, for those of us who have been lucky enough to try it, or live by it, real life aviation is even more fantastic.

The ability to lift off the ground and navigate in the open air, lightweight, thanks to human engineering, is almost a miracle. Every minute spent hanging from your wings, in your little cockpit, looking at the sky, the weather, the landmarks, is a gift.

Unfortunately, this gift comes at a cost. Worldwide, general aviation, as much as we all love it, causes about 200 deaths per year.



On June 28, 2022, the two occupants of the Gabriel PH-TRC (included in this package) have unfortunately entered these statistics: A 63-year-old instructor from the "*Zelf Vliegen*" flight school and a 24-year-old pilot in training for Transavia.

We have decided to include this livery and aircraft identifier with this add-on as a living memorial to all these unfortunate people the world loses every year.

Please fly safely, always be cautious, never overestimate your skills or your luck, and live to appreciate another day.

Performance

Altitude and speed

The following numbers were **measured in a standard atmosphere with no wind and no clouds.**

Cruise altitude	8,500 feet
Cruise speed (ground speed)	150 knots
Maximum rated altitude	11,500 feet
Maximum reachable altitude	23,500 feet
Max range	400 NM *
Max endurance	2.5 hours *

* Does not take into account the descent, landing, taxi and 30 minutes of reserve fuel.

These reference speeds can also be found directly from your EFB while in flight. **They are given** in knots (KIAS):

V FE (max speed flaps extended)	115
VLE (max speed landing gear extended)	115
VNO (normal operation speed)	155
V NE (never exceed speed)	180
V₅₀ (stall speed no flaps)	49
Vs1 (stall speed flaps extended)	44
V x (Best angle of climb)	60
Vy (Best rate of climb)	80

Weight distribution

There is one major rule to follow in the Gabriel:

if there is only one person aboard, this person has to be in the front seat.

In other words, if you have someone in the rear seat, you must also have someone in the front seat. Otherwise, the aircraft will just sit on its tail, if on the ground. And it will not be able to fly properly either.

You	are alone aboard	Т	wo people aboard
	You are in the front seat. Before takeoff, make sure your elevator trim is set to neutral : if the orange lights on the trim indicator are OFF, you're all good.	ELEVATOR TRIM UP T R UN DN	You can sit in either the front or the rear seat — you must use the EFB to select your seat. Before takeoff, make sure your elevator trim is set to "slightly DOWN", next to the "TO" arrow on the trim indicator.

Cockpit overview

The cockpit will be split into four panels: "left", "top", "center" and "right".



Both seats have exactly the same layout, so these layouts will only be described once. The only differences between the front and rear seats are:

- The canopy lock mechanism
- The circuit breakers, only present at the front



Left panel

The left panel includes a first group of three switches, where you can find:



the Auxiliary Fuel Pump toggle. This pump is required to start the engine. You can turn it off once the engine is running because the second pump, driven by the engine itself, should keep the fuel flowing. However, it is recommended to activate this auxiliary pump for takeoffs and landings.

The **Landing Light** and **Taxi Light** toggles. These two lights are located on the front landing gear strut, inside a unique hybrid light.

These lights cannot be activated when the landing gear is retracted. They will also automatically turn off when the landing gear retract.

Then you have the usual three levers to control your throttle, your propeller pitch and your engine mixture.

The fourth lever on the left, labeled "*Alternate Air*" controls your cowl flaps, which can provide an alternate, unfiltered intake and increase cooling air flow to the cylinder heads.

To the right of these levers is the elevator trim wheel.

The indicator for this trim position is on the front console (screenshots on previous page).

There is also a white indicator light on the center panel that illuminates when the elevator trim is not neutral.

Below the power levers, you have:

- The flaps control + indicator
- Map lights color and intensity (the ON/OFF control is on the top panel)
- AC temperature and intensity

And tucked away on the side, you have the Gabriel's custom EFB. Bring it and stow it with its power button.

Top panel

From left to right:

- Your landing gear controls, including the test button to check the four light indicators and the *horn silence* option to disable the sound notification when the aircraft would suggest you to extend your landing gear.
- Magnetic compass



- Elevator trim indicator
- Garmin G5 backup PFD/MFD display
- Flaps indicator
- Garmin G3X main avionics/touchscreen
- Master Warning and Master Caution indicators and acquit buttons
- AC/Ventilation
- Two, two-way test buttons for audible alerts and LED indicators
- Panel light on/off switch + intensity knob
- Map light on/off switch
- Displays/Indicators intensity knob
- Autopilot module (GMC 307 for now, but GFC 500 in the future)



Center panel

From top to bottom:

- Garmin GMA 350 audio panel
- Garmin GNC 255 COM/NAV panel connected to COM2/NAV2
- Lots of indicators: **These are not switches/toggles.** You can't interact with them. They are divided into two colors:
 - White indicator \rightarrow simple information/status
 - Amber indicator \rightarrow warning or not nominal situation
- *"Panel Light"* test button: when pressed and held, all center panel indicators turn ON (if the aircraft and the corresponding circuits are powered).
- Parking brake handle
- Rudder pedal depth adjustment
- Emergency landing gear extension handle

The operation of the emergency landing gear extension is described on a label on the right side of the handle. We will also go through it later in this document.

Right panel

The right panel starts with the **annunciator panel: a group of 12 indicators of different** colors:

- Green → information. The only green indicator is "*Trainee*" when you are in a fully occupied aircraft and you are operating it from the rear seat. Use the EFB to get into this configuration.
- Amber \rightarrow Warning. You should check the status but there is no immediate danger.
- Red \rightarrow Caution. Real problem that you need to fix immediately.

Below this display, and from forward to aft:

- The engine starter button secured under its cage
- Magnetos 1 and 2 toggles.
- Battery and alternator toggles.
- Fuel tank selector (left / both / right and all closed [red light])
- Exterior lights: Anticol (beacon) / Nav / Strobes
- Avionics
- Pitot heat
- Emergency Elect Bus (displayed as "E.P.U." on the annunciator panel): If your main battery is dead or your alternator is not working and you have no electrical power on board, you can activate this backup battery.
- Alternate static port
- ELT toggle (auto/forced)
- Circuit breakers (front seat only)
- Headphone jack connectors

-ocus on ...

Rear seat flying

You can fly from the rear seat at any time. You must go through your EFB, on the "Aboard" page and select the third configuration: Trainee sitting in front and you in rear seat.

File	1.					
FUEL SEATING	<u>ABOARD</u>	OPTIONS	SPEEDS	INFOS		HOME
	FRONT You	REAR Empty	CHARACTER You Passenger	\$	JENNY	-
	YOU TRAINEE	PASSENGER YOU	A A A A A A A A A A A A A A A A A A A	•	THOMAS	

Click on the highlighted arrow.

This will actively change your camera position, take the EFB with you, and swap the "fake" instruments that were in the rear seat with the real instruments in the front seat. So you still have working instruments and this plane won't ruin your FPS by running some code twice.



Notice the green "Trainer" indicator on the annunciator panel.

If you don't go through the EFB, the rear G3X, rear AP module and many other instruments and controls will not work.

Canopy interactions

You can open and close the canopy from either seat. The canopy opens with the red metal lever on your left side and closes with the same lever or with the handles integrated in the canopy itself (above your head, when the canopy is open).



To open the canopy, you must first unlock it. And after closing it, it's important to lock it. The actual lock/unlock system is only accessible from the front seat, next to the front red metal canopy lever.

But to make it more convenient for anyone who wants to fly from the rear seat, we have added a tag on the canopy frame, with a lock icon. Clicking on this tag will also allow you to lock/unlock the canopy.

Noise reduction

This add-on uses a custom noise reduction system.

You should first disable Flight Simulator's default "headphone simulation" in your game settings.

Then you can enable/disable the noise reduction at any time during the flight by either:

- Clicking on the headphones command (if the purple light is on, noise reduction is on).
- Toggling the option from the EFB/Options page.

Static items

There are static items present on the Gabriel: access steps, chocks on the front wheel and pitot covers under left and right wings.



These items can be **added and removed according to the FS2020 rules: from the cockpit view, move outside of the aircraft** and you can click on the chocks rope, the left wing leading edge or the pitot covers to add/remove these items.

At the moment it doesn't work with the FS2024 walkaround mode since this package is compiled with FS2020 SDK. But you can still do the same interactions in FS2024 as in FS2020.

You can also set/remove these items on the EFB/Options page.



Finally, when you release the parking brake and start moving, all these static items are automatically removed, if you don't want to deal with them.

EFB

A custom EFB has been created for the Gabriel. From there, you can (and should) set your fuel and payload settings. Regardless of which sim you are using (2020 or 2024), this custom EFB is the best way to set this information.

You can also choose which 3D model to display as your character and as your passenger/trainee. There are several options, including some fun ones 😌

Be sure to check out the options page to enable/disable damage and VFX and to show/hide static items or engine panels:



Finally, you can check your reference speeds at any time, or scan 2 QR codes to access some quick tips and the latest version of this PDF from your phone.

G3X Touch

This is a "standard" Garmin touchscreen unit. It is actually quite sophisticated, created by Working Title and included by default in FS2020 and 2024. There are still some limitations in FS2024, especially regarding flight plan importing from the Sim's EFB (it works well from the world map, but not in flight). When we will move to a native FS2024 Gabriel and redo the integration with the new G3X Touch instrument, this will be fixed.

G5

Another standard instrument created by Asobo. It is simple, has two display modes, and allows you to set some autopilot targets (altitude/heading).



GNC 255

This instrument was been created from scratch by Flying Fries. It is as close as possible to the real Garmin counterpart. You can set your COM2 and NAV2 frequencies and get a lot of information about your stations. It is also possible to navigate a VOR/DME and get all your position and orientation information from and to this VOR.

GMA 350

Based on a standard Asobo instrument but with enhanced user interactivity.

GFC 500

This is the standard GMC 307 instrument by Asobo, boosted with Working Title code to make it a fully functional GFC 500 unit, as present in the real Gabriel

EPU

"Emergency Power Unit" or *"Emergency Elect Bus"*. It's your airplane's backup battery when your main battery is completely discharged and your engine or alternator is not running or not working properly. Actionable with a simple toggle switch.

Note: If you use the "Set Battery Master" bind in your sim, it will trigger the main battery and the EPU together.

Emergency LDG Gear extension

If your aircraft loses electrical power while you're flying, you are still safe: all of your flight controls will still operate, except for the flaps. Your engine will continue to run thanks to its mechanical fuel pump and you can fly to the nearest airport, if you can see one through your beautiful canopy!

The only thing that will be a problem (the flaps are not really a problem, you can easily land with flaps up) is the landing gear.

So...

1/ Lower the regular landing gear handle to unlock the system. The undercarriage will not move as it is electrically operated.

2/ Pull on LDG emergency extension lever and your gear will extend slowly.

Breaking propeller

This can happen **if you have activated damage on the EFB** and hit an obstacle with the tip of the propeller. If the propeller breaks, your engine will immediately die as well.

You can repair your propeller and engine with the EFB.

One thing to note: In order for this damage to work, you must have the "engine stress damage" option enabled in your simulator:

FS2020:	
102020.	

▲ FAILURE AND DAMAGE	CUSTO	м 🗾
CRASH DAMAGE	disabl	ED >
AIRCRAFT STRESS DAMAGE	disabl	ED >
ENGINE STRESS DAMAGE	ENABLI	ED >
ICING EFFECT	S ON	

FS2024:

Realism	
Disable Crash Damage	
Disable Aircraft Stress Damage	
Disable Engine Stress Damage	

Breaking canopy

The canopy can also break/explode if your damage option is enabled and under two conditions:

- You leave it open and are flying above 80 knots.
- You leave it unlocked (but closed), you are flying, and you make a hard roll to the left.

Once the canopy is gone, there is no more ice (this is a great trick if you were struggling for visibility, as the Gabriel does not have a windshield defroster \mathfrak{S}). But if you want to fix it and reinstall your canopy (even in flight), you can do so from the EFB/Options page.

Checklists

You can find all these checklists in the game, with custom cameras and switches highlighted.

Before starting engines

Canopy	Unlocked and open
Landing gear lever	Down
Parking brake	Set
Rear trunk door and oil trap	Closed
Pitot covers	Removed
Chocks	Removed
Access stairs	Removed
Flight Control Surfaces	Free and responsive
Circuit breakers	All in
Emergency Power Unit	OFF
Magnetos	OFF
Alternator	OFF



Battery	ON
Navlights	ON
Beacon / anticollision lights	OFF
Strobe lights	OFF
Landing lights	OFF
Taxi lights	OFF
Interior lights	As desired
Emergency Power Unit	ON
Battery	OFF
Check power	Aircraft powered
Battery	ON
Emergency Power Unit	OFF

Starting engines

Fuel tank selector	As desired
Beacon lights	ON
Mixture	Rich
Propeller pitch	Max
Throttle	Idle
Auxiliary fuel pump	ON
Magnetos	ON
Alternator	ON
Starter	Press and hold
Mixture	Best setting

After starting engines

Avionics	ON
Pitot heat	ON
Central panel lights	Press test
Annunciator panel	Test
Fuel selector	Test
Landing gear horn	Test
Stall horn	Test
Landing gear lights	Test
Canopy	Closed and locked

Тахі

Elevator trim	Neutral

Taxi lights	ON
Parking brake	Released
Annunciator panel	Dark
Throttle	Moderate
Toe brakes	Test
Propeller	Мах
Mixture	Best
Speed	Taxi (20 KIAS)

Take-off

Strobe lights	ON
Transponder	Alt
Auxiliary fuel pump	ON
Landing lights	ON
Parking brake	Released
Flaps	Take-off
Elevator trim	Neutral or take-off
Annunciator panel	Dark
Propeller	Max
Mixture	Best
Throttle	Max
Speed	Take-off (80 KIAS)
Tak	e-off
Landing gear	Up
Flaps	Up

Cruise

Throttle	Managed
Propeller	Managed
Mixture	Best
Landing gear	Up
Flaps	Up
Auxiliary fuel pump	OFF
Annunciator panel	Dark

Approach

Auxiliary fuel pump	ON
Propeller	Max
Mixture	Best
Throttle	Managed

Landing gear	Down
Landing lights	ON
Flaps	Take-off
Speed	Approach (85 KIAS)

Landing

Auxiliary fuel pump	ON		
Flaps	Down		
Speed	Landing (70 KIAS)		
Touchdown			
Throttle	Idle		
Elevator trim Neutral			
Flaps Up			

Engine stop

Taxi lightsONLanding lightsOFFStrobe lightsOFFTransponderStandbySpeedTaxi to gate (20 KIAS)ThrottleIdleParking brakeSetCanopyUnlocked and openAuxiliary fuel pumpOFFPitot heatOFFMixtureLeanestMagnetosOFFAlternatorOFFFuelClosedAvionicsOFFBatteryOFFAccess stairsSetDitto evanorSet	Runway	Cleared
Strobe lightsOFFTransponderStandbySpeedTaxi to gate (20 KIAS)ThrottleIdleParking brakeSetCanopyUnlocked and openAuxiliary fuel pumpOFFPitot heatOFFMixtureLeanestMagnetosOFFAlternatorOFFFuelClosedAvionicsOFFBatteryOFFAccess stairsSet	Taxi lights	ON
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MagnetosOFFAlternatorOFFFuelClosedAvionicsOFFBatteryOFFAccess stairsSet	Pitot heat	OFF
AlternatorOFFFuelClosedAvionicsOFFBatteryOFFAccess stairsSet	Mixture	Leanest
FuelClosedAvionicsOFFBatteryOFFAccess stairsSet	Magnetos	OFF
AvionicsOFFBatteryOFFAccess stairsSet	Alternator	OFF
BatteryOFFAccess stairsSet	Fuel	Closed
Access stairs Set	Avionics	OFF
	Battery	OFF
	Access stairs	Set
Pilot covers Set	Pitot covers	Set
Chocks Set	Chocks	Set

Easter Eggs

Why isn't there anything about Easter eggs in this PDF? Did I forget them? ... No, but it's up to you to find them all. Some are much better hidden than the French fries! 😌

local Variables

Here is the list of the local variables defined/used by the Gabriel that you can address directly with Spad, AAO, etc.

Description	Name	Range	Persistent	
Levers vibrations OFF/ON	Gaby_Vibrations	0-1	YES	
Levers vibration intensity	Gaby_Vibrations_Intensity	1-2	YES	
Custom VFX OFF/ON	Gaby_VFX	0-1	YES	
Custom damage OFF/ON	Gaby_Fail	0-1	YES	
Map light color FRONT	Gaby_MapLight_Color_1	0-3	YES	
Map light color REAR	Gaby_MapLight_Color_2	0-3	YES	
3D mesh for *YOU*	Gaby_Pilot_Mesh *	0-4	YES	
3D mesh for Passenger/Trainee	Gaby_Passenger_Mesh *	0-4	YES	
	*: The values for pilot and passengers mesh can't be identical			
Noise reduction OFF/ON	FRIES_Headphones	0-1	NO	
Headphone visibility, front seat	Headphone_1_Visible	0-1	NO	
Headphone visibility, rear seat	Headphone_2_Visible	0-1	NO	
Stick visibility	Gaby_Stick_Hidden	0-1	NO	
EFB Stowed/Deployed	Gaby_EFB	0-1	NO	
EFB Page to display	FFEFB_Page	0-5	NO	
Top engine panel/hood visibility	Gaby_Engine_Hood_Top	0-1	NO	
Bottom engine panel/hood visibility	Gaby_Engine_Hood_Bottom	0-1	NO	
Engine metal shield visibility	Gaby_Engine_Shield	0-1	NO	
Number of fries remaining	Gaby_Fries	0-4	NO	
Nose wheel chocks visibility	Gaby_Chocks	0-1	NO	
Access stairs visibility	Gaby_Stairs	0-1	NO	
Pitot covers visibility	Gaby_Pitot_Covers	0-1	NO	

Known bugs

Unfortunately, there are some known bugs at this stage. Or is it so unfortunate, now that I think about it? Maybe it's good that they are known. It means we could do something about them. Or someone could... Here is the list:



FS2020 and FS2024 \rightarrow when spawning from the runway, the aircraft will sometimes have some elevator trim up instead of neutral (reminder: when flying with two people aboard, you should aim for trim down)

This is probably due to the physical engine pushing on the wings/tail/whatever during loading, and the simulation forcing a trim value that seems right... but it's not.

We will look more into, this but It's not guaranteed that we will find a solution. So **always check** your trim status before takeoff!

FS2020 and FS2024, G3X Touch \rightarrow Sometimes, the "NRST" (Nearest) menu never shows anything within a 200 NM radius.

This is not something we can fix. It's in the Working Title code. It has been fixed on their side and it's waiting for a release in a SU by MS.

FS2020 and FS2024, G3X Touch \rightarrow The wind display or is not accurate enough, causing slightly off Ground Speed indications and having other minor UI impact.

There is no way to control these value computations. Maybe with time we will find a workaround or a fix will be provided between Working Title and MS/Asobo.

FS2024 \rightarrow If you "land" with the gears retracted, the plane will slide indefinitely, one way then the other, then it will turn around and keep going on

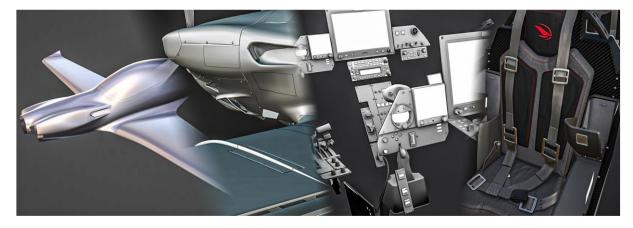
Well... I talked to a legend of flight model tuning about this and his answer was that this is clearly an Asobo problem and we should definitely wait for them to fix it. I don't have the tools to do it for them. **Don't forget your landing gear then** 😊

Stay in touch!

If you want to get involved with any new updates for this Gabriel or regarding the Scrapyard Monster, the XF-11, and whatever else is coming next from Flying Fries, the best way is to join our Discord server and explore the various channels.



Unlike most developers (and I'm not judging when I say this), Flying Fries communicates about its projects throughout the entire development process. With comments and lot of work in progress pictures (you can find all the history of the Gabriel and XF-11, for instance).



And you can react and make suggestions at any time.

Don't be too shy, come and say hi!



Join us on Discord: <u>https://discord.gg/VNdrSgTWYZ</u> Join us on <u>YouTube: https://www.youtube.com/@flyingfries1027</u>

