HoneycombOnArm64MacOS

Aircraft Default Configuration Guide

Honeycomb Bravo configuration plugin

Native Apple Silicon

For X-Plane 12

OpenSource

Run X-Plane 12 Apple Silicon compatible aircraft with Honeycomb Bravo controls, without needing Rosetta

Configuration Guide vBeta1.02

HoneycombOnArm64MacOS

Plug-in Features

Assign commands for all rotary controls
Assign commands for all autopilot buttons
Assign datarefs for all annunciator lights
Assign datarefs for all autopilot button lights
Use Bravo switches to modify rotary and button behaviour

Built-in configs for all Laminar Research supplied aircraft

Uses JSON files to read/modify/create configs

Default Built-in Configurations

Ensure the plugin is installed and configured as shown in the Installation Guide

This document records the default configuration applied for each aircraft known to the plugin.

The default configuration is written to the aircraft's json file if the json file is not present in the plug-in's directory

See the user guide for information on modifying json files

How to use this configuration guide

This guide has two 'contents' pages. One for all Laminar Research Aircraft and another for all 3rd party aircraft* known to the plugin.

In each contents page, clicking on an aircraft's name will jump to the first information page for that aircraft.

Each information page has a link to jump back to the contents page. This make it easy to find the right information without endlessly scrolling through the document.

Each aircraft has two pages of information

Page 1 is a table showing all the controls known to the plug-in for this aircraft and how they map onto the buttons, rotary controls and switches

Page 2 is user guidance on how to select the various controls for this aircraft

*The 3rd party list will grow over time as more aircraft are modelled.

Contents – Laminar Research Aircraft*

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*Click on an aircraft's name to see its configuration guide

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Contents – 3rd party aircraft*

Airliners

Jump to the Laminar Research contents page

*Click on an aircraft's name to see its configuration guide

Default Configuration – Laminar Research Aeroworks 103

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	Barometer up/down	Barometer up/down	Barometer up/down	Barometer up/down	Instrument panel	None active		-	-	-	-	-	-	-	-
						Toggle 7									
						Toggle 6									
						Toggle 5									
						Toggle 4									
						Toggle 3									
						Toggle 2									
						Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

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User guidance – Laminar Research Aeroworks 103

The Aerowork 103 only has a single adjustable flight parameter, which is the Barometer pressure. The right-hand rotary always adjusts this parameter, independent of any settings on the left-hand rotary or the Toggle switches.

Default Configuration – Laminar Research Airbus A330-300

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Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude	Vertical speed	Heading	-	Airspeed	MCP	None active	MCP	HDG TRK V/S FPA	LOC	APPR	-	ALT	Vertical speed	A/THR	AP1
fast/slow		fast/slow		fast/slow	MCP	Toggle 7									
Altitude 100 / 1000 flip					MCP	Toggle 6	MCP					copilot baro std off			
Pilot QNH					MCP	Toggle 5	MCP					Copilot baro std on			
Copilot QNH					MCP	Toggle 4	MCP					Captain baro std off			
Backup QNH					Centre panel	Toggle 3	MCP					Captain baro std on		SPD MACH	
						Toggle 2	MCP	Heading pull		Copilot LS		ALT knob pull		Speed pull	
						Toggle 1	MCP	Heading push		Captain LS		ALT knob push		Speed push	AP2

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

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User guidance – Laminar Research Airbus A330-300

Altitude – there are two ways to control the rotary speed when setting the MCP altitude.

Method 1 – Use the airbus built-in controls - The airbus provide a control to switch between altitude 100s and 1000s. Set the left-hand rotary to ALT and activate Toggle 6. This will enable you to switch between 100s and 1000s. Once the required units are selected (e.g., 1000s), deactivate Toggle 6 (make sure no other toggles active) and use the right-hand rotary to adjust the selected unit of the altitude. Then repeat to set the other unit (e.g., 100s).

Note, Toggle 7 (fast/slow) is still active here and you may want to activate it (slow mode) when using method 1 to set the altitude.

Method 2 – use the plugin's fast/slow feature (Toggle 7) - set the airbus selector to 100s as described above. Then use the right-hand rotary in conjunction with Toggle 7 (fast/slow) to control the rate of adjustment.

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Default Configuration – Laminar Research ALIA 250

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Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle		Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Vertical speed up/down	Heading up/down	LOC1 / LOC2 up/down	-	PFD	None active		PFD	HDG	NAV	APR	BC	ALT	VS	FLC	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7										
Barometer up/down			NAV coarse up/down	NAV fine up/down	PFD	Toggle 6	*	PFD	NAV 1-2 toggle	NAV flip active						
			COM coarse up/down	COM fine up/down		Toggle 5			COM 1-2 toggle	COM flip active						
		FPL range up/down	FPL chapter up/down	FPL page up/down	MFD	Toggle 4	*	MFD	PFD CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 3										
						Toggle 2										
						Toggle 1			Heading sync	LOC1 / LOC2 sync						

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research ALIA 250

PFD - Use Toggles 6* to configure the PFD NAV frequencies. Set Toggle 6 (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between NAV1 & NAV2 as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).   Once the correct frequency is set, press the NAV button to flip the NAVx active and standby values.

Similarly, Toggle 5* (check no other toggles active) adjusts the PFD COM frequencies.

MFD flight plan entry. Set Toggle 4* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). The autopilot button map to the MFD buttons. Press FLP, PROC, Direct or MENU as required. Use the IAS button to select the first field and then use right-hand rotary to move between fields. Press AP to 'enter' a value. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between scrolling through a list and moving between lists (equivalent to adjusting the inner and outer knobs on the FMS control).

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Beechcraft Baron 58

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Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
-	Vertical Speed up/down	Heading up/down	OBS HSI up/down	-	Instrument panel	None active	AP panel	HDG	NAV	APPR	BC	ALT	-	-	AP
		fast/slow	fast/slow	fast/slow		Toggle 7									
Barometer pilot up/down		ADF dial up/down	COM/VLOC coarse up/down	COM/VLOC fine up/down	G530	Toggle 6	* G530	COM–VLOC toggle	VLOC flip active	COM flip active					
Barometer copilot up/down		Map range up/down	FPL chapter up/down	FPL page up/down		Toggle 5		CDI	FLP	PROC	Direct	MENU	CLR	CURSOR	ENT
			COM2 coarse up/down	COM2 fine up/down	Radio panel	Toggle 4	Radio panel	COM2 flip active							
			NAV2 coarse up/down	NAV2 fine up/down		Toggle 3	*	NAV2 flip active							
		ADF mode selector	ADF 100s up/down	ADF 10s up/down	ADF	Toggle 2	* ADF	ADF flip active							
1s up/down	10s up/down	100s up/down	1000s up/down	XPDR mode Selector	Transponder	Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Beechcraft Baron 58

HoneycombOnArm64MacOS

G530 - Use Toggles 5 and 6 to configure the G530. Toggle 6* lets you adjust the COM and VLOC frequencies. Set Toggle 6 (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between COM and VLOC as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM/VLOC control).   Once the correct frequency is set, press the NAV button to flip the VLOC active and standby values or the APR button to flip the COM active and standby.

Similarly, Toggle 5* (check no other toggles active) adjusts the right-hand G530 control, which is used to input the flight plan and related data. The other autopilot buttons map the to FPL, VNAV, PROC, ENT, CLR, MENU and Direct buttons plus PUSH/CRSR.

G430 – same as the G530, with Toggle 4* adjusting COM/VLOC and Toggle 3* adjusting the flight plan.

ADF – Toggle 2* (check no other toggle active) adjusts the ADF frequency. Use the HDG position to turn on/off the ADF as required. Use IAS to set the 10s units (Toggle 7 available here to control the speed of adjustment and CRS to set the 1000s.   One the correct frequency is dialed in, the HDG button will flip the active/standby values.

Transponder - Set Toggle 1* (check no other Toggles active) and move the left-hand rotary to its lower position (IAS) Use the right-hand rotary to adjust the transponder mode the STBY Move the left-hand rotary up one click (CRS) and set the 1000s digit for the transponder code Repeat one click up and one digit set until all 4 digits are correct Move the left-hand rotary back to its lower position (IAS) and set the transponder mode to ON or TST as required

* Aligned configuration – only one Toggle to be active at a time

Default Configuration – Laminar Beechcraft King Air C90B

Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Nose pitch up/down	Heading up/down	-	-	AP panel	None active	AP panel	Heading	NAV	Approach	Back course	Altitude hold	Vertical speed	Speed hold	Servos toggle
	fast/slow	fast/slow	fast/slow	fast/slow		Toggle 7									
Barometer pilot up/down		OBS HSI up/down	COM/VLOC coarse up/down	COM/VLOC fine up/down	G530	Toggle 6	G530	COM-VLOC toggle	VLOC flip active	COM flip active					
Barometer copilot up/down		HSI Select up/down	FPL chapter up/down	FPL page up/down		Toggle 5 *		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
			COM/VLOC coarse up/down	COM/VLOC fine up/down	G430	Toggle 4 *	G430	COM-VLOC toggle	VLOC flip active	COM flip active					
			FPL chapter up/down	FPL page up/down		Toggle 3 *		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
		xpdr mode select	xpdr 100s up/down	xpdr 10s up/down	XPDR	Toggle 2 *	XPDR	Transponder ident	CRS sync Select			altSel100	descend		
						Toggle 1	AP panel		CRS select			Altitude arm	climb		

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Beechcraft King Air C90B

Honeycomb0nArm64MacOS

G530 - Use Toggles 5 and 6 to configure the G530. Toggle 6* lets you adjust the COM and VLOC frequencies. Set Toggle 6 (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between COM and VLOC as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM/VLOC control).   Once the correct frequency is set, press the NAV button to flip the VLOC active and standby values or the APR button to flip the COM active and standby.

Similarly, Toggle 5* (check no other toggles active) adjusts the right-hand G530 control, which is used to input the flight plan and related data. The other autopilot buttons map the to CDI, FPL, PROC, ENT, CLR, MENU and Direct buttons plus PUSH/CRSR (i.e., select/cursor)

G430 – same as the G530, with Toggle 4* adjusting COM/VLOC and Toggle 3* adjusting the flight plan.

Transponder - Set Toggle 2* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). Set the first 2 digits of the transponder code. Move the left-hand rotary up one position (CRS). Set the next 2 digits of the transponder code. Move the left-hand rotary up on position (HDG). Set the transponder mode.   The HDG button presses the Transponder Ident button.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Research Boeing 737

Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Active Toggle	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Vertical speed up/down	Heading up/down	Pilot COURSE up/down	Airspeed up/down	None active	Heading select	LNAV	APP	-	ALT HOLD	VS	Speed	CMD A
fast/slow		fast/slow	fast/slow		Toggle 7								
Captain Barometer up/down		MAP zoom in/out	Copilot COURSE up/down		Toggle 6								
Copilot Barometer up/down		Bank angle up/down			Toggle 5								
Captain decision height up/down		EFI mode up/down			Toggle 4					Copilot EFIS RST			
Copilot decision height up/down					Toggle 3					Copilot EFIS STD			CWS B
Captain HPA / IN flip					Toggle 2	Captain EFIS TFC				Captain EFIS RST			CWS A
Copilot HPA / IN flip					Toggle 1	Captain EFIS CTR	VNAV	VOR/LOC		Captain EFIS STD	Level change		CMD B

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

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User guidance – Laminar Research Boeing 737

The most common controls in flight operate by default (i.e., when no toggles are active).

Rotary workflows move with the toggles from right to left.

For example, for Altitude related functions set the left-hand rotary to the ALT position.
- By default the right-hand rotary will adjust the altitude setting in the PFD (note that Toggle 7 can be used here to control moving quickly or accurately when adjusting the altitude).
- Activating Toggle 6 will enable setting the captain PFD QNH,
- Activating Toggle 5 will enable setting the copilot PFD QNH (no need to deactivate Toggle 6)
- Activating Toggle 4 will enable setting the captain decision height (no need to deactivate Toggle 5)
- Activating Toggle 3 will enable setting the copilot decision height (no need to deactivate Toggle 4, see note*)
- Activating Toggle 2 will enable setting the captain Baro units (no need to deactivate Toggle 3, see note*)
- Activating Toggle 1 will enable setting the copilot Baro units (no need to deactivate Toggle 2, see note*)
- Now that the workflow is complete, unset all toggles.

The same approach applies to the other rotaries.

Button workflows move with the Toggles from left to right.

For example, for Heading related functions
- By default the HDG button on the Bravo triggers the HDG button AP panel
- Activating Toggle 1 maps the HDG button on the Bravo to the Captain's EFIS CTR button
- Activating Toggle 2 maps the HDG button on the Bravo to the Captain's EFIS TFC button(note, no need to deactivate Toggle 1 but this will change other buttons)
- Activating Toggle 3 maps the HDG button on the Bravo to the OBS Direct function on the PFD (no need to deactivate Toggle 2, but this will change other buttons).

* Note, for this aircraft the Buttons use Toggles 1-4 and the Rotarys use Toggles 1-7, so care must be taken when using Toggles 1-4. These toggles affect multiple functions and could lead to unintended results if you set a toggle with one particular control in mind, then adjust another control without realising it has also been re-mapped.

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Default Configuration – Laminar Research Cessna Skyhawk

HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	Vertical speed up/down	Heading up/down	OBS1 up/down	-		None active		Heading	NAV	Approach	Back course	Altitude hold	Vertical speed	-	Servos toggle
		fast/slow	fast/slow	fast/slow		Toggle 7									
		OBS1 up/down	COM/VLOC coarse up/down	COM/VLOC fine up/down	G530	Toggle 6	* G530	COM-VLOC toggle	VLOC flip active	COM flip active					
		OBS2 up/down	FPL chapter up/down	FPL page up/down		Toggle 5		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
		ADF HDG up/down	COM/VLOC coarse up/down	COM/VLOC fine up/down	G430	Toggle 4	* G430	COM-VLOC toggle	VLOC flip active	COM flip active					
		Gyro sync up/down	FPL chapter up/down	FPL page up/down		Toggle 3		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
		ADF Freq 100s up/down			ADF	Toggle 2	* ADF							ADF flip active	
		ADF Freq 10s up/down				Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Cessna Skyhawk

Honeycomb0nArm64MacOS

G530 - Use Toggles 5 and 6 to configure the G530. Toggle 6* lets you adjust the COM and VLOC frequencies. Set Toggle 6 (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between COM and VLOC as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM/VLOC control).   Once the correct frequency is set, press the NAV button to flip the VLOC active and standby values or the APR button to flip the COM active and standby.

Similarly, Toggle 5* (check no other toggles active) adjusts the right-hand G530 control, which is used to input the flight plan and related data. The other autopilot buttons map the to CDI, FPL, PROC, ENT, CLR, MENU and Direct buttons plus PUSH/CRSR (.e., select/cursor).

G430 – same as the G530, with Toggle 4* adjusting COM/VLOC and Toggle 3 adjusting the flight plan.

ADF Frequency - Set Toggle 1* (check no other Toggles active) and move the left-hand rotary to position HDG. Set the first 2 digits of the ADF frequency code. Set Toggle 2 (unset Toggle 1), set the next 2 digits of the ADF frequency.   The IAS button flips the active/standby frequency.

* Aligned configuration – only one Toggle to be active at a time

Default Configuration – Laminar Cessna Skyhawk G1000

HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude 1000s up/down	Vertical Speed up/down	Heading up/down	VOR1 / LOC2 up/down	-	PFD	None active	PFD	HDG	NAV	APR	BC	ALT	VS	FLC	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7									
Altitude 100s up/down			NAV coarse up/down	NAV fine up/down	PFD	Toggle 6	* PFD	NAV 1-2 toggle	NAV flip active						
Barometer up/down			COM coarse up/down	COM fine up/down		Toggle 5		COM 1-2 toggle	COM flip active						
		FLP range up/down	FPL chapter up/down	FPL page up/down	MFD	Toggle 4	* MFD	CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 3									
						Toggle 2									
						Toggle 1	PFD	Heading sync							

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Cessna Skyhawk G1000

HoneycombOnArm64MacOS

PFD - Use Toggles 6 to configure the PFD NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between NAV1 & NAV2 as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).   Once the correct frequency is set, press the NAV button to flip the NAVx active and standby values.

Similarly, Toggle 5* (check no other toggles active) adjusts the PFD COM frequencies.

MFD flight plan entry. Set Toggle 4* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). The autopilot button map to the MFD buttons. Press CDI, FLP, PROC, Direct or MENU as required. Use the IAS button to select the first field and then use right-hand rotary to move between fields. Press AP to 'enter' a value. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between scrolling through a list and moving between lists (equivalent to adjusting the inner and outer knobs on the FMS control).

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Cessna Skyhawk Floats

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	Vertical speed up/down	Heading up/down	OBS1 up/down	-		None active		Heading	NAV	Approach	Back course	Altitude hold	Vertical speed	-	Servos toggle
		fast/slow	fast/slow	fast/slow		Toggle 7									
		OBS1 up/down	COM/VLOC coarse up/down	COM/VLOC fine up/down	G530	Toggle 6	* G530	COM-VLOC toggle	VLOC flip active	COM flip active					
		OBS2 up/down	FPL chapter up/down	FPL page up/down		Toggle 5		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
		ADF HDG up/down	COM/VLOC coarse up/down	COM/VLOC fine up/down	G430	Toggle 4	* G430	COM-VLOC toggle	VLOC flip active	COM flip active					
		Gyro sync up/down	FPL chapter up/down	FPL page up/down		Toggle 3		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
		ADF Freq 100s up/down			ADF	Toggle 2	* ADF							ADF flip active	
		ADF Freq 10s up/down				Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Cessna Skyhawk Floats

G530 - Use Toggles 5 and 6 to configure the G530. Toggle 6 lets you adjust the COM and VLOC frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between COM and VLOC as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM/VLOC control).   Once the correct frequency is set, press the NAV button to flip the VLOC active and standby values or the APR button to flip the COM active and standby.

Similarly, Toggle 5* (check no other toggles active) adjusts the right-hand G530 control, which is used to input the flight plan and related data. The other autopilot buttons map the to CDI, FPL, PROC, ENT, CLR, MENU and Direct buttons plus PUSH/CRSR.

G430 – same as the G530, with Toggle 4* adjusting COM/VLOC and Toggle 3* adjusting the flight plan.

ADF Frequency - Set Toggle 1* (check no other Toggles active) and move the left-hand rotary to position HDG. Set the first 2 digits of the ADF frequency code. Set Toggle 2 (unset Toggle 1), set the next 2 digits of the ADF frequency.   The IAS button flips the active/standby frequency.

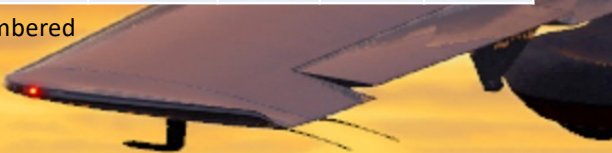* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Research Cessna Citation X   HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	NOSE UP / NOSE DN	Pilot heading up/down	Pilot OBS up/down	-	PFD	None active	Honeywell AP	HDG	NAV	APP	BC	ALT	VS	FLC	AP
slow/fast		slow/fast	slow/fast	-		Toggle 7									
Captain barometer up/down		Copilot heading up/down	Copilot OBS up/down		PFD	Toggle 6									
Standby barometer up/down					BACKUP ALTIMETER	Toggle 5									
Minimums up/down					PFD	Toggle 4									
						Toggle 3	PFD	OBS HSI direct							YD
						Toggle 2	Honeywell AP	PFD HDG sync					RA / BARO		PFD SEL
						Toggle 1	Honeywell AP	BANK	VNAV				PFD STD	M TRIM	C\O	STBY

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

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User guidance – Laminar Research Cessna Citation X

Honeycomb0nArm64MacOS

The most common controls in flight operate by default (i.e., when no toggles are active).

Rotary workflows move with the toggles from right to left.

For example, for Altitude related functions set the left-hand rotary to the ALT position.
- By default the right-hand rotary will adjust the altitude setting in the PFD (note that Toggle 7 can be used here to control moving quickly or accurately when adjusting the altitude).
- Activating Toggle 6 will enable setting the PFD QNH,
- Activating Toggle 5 will enable setting the backup altimeter QNH (note, no need to deactivate Toggle 6 as there are no aligned configurations for this aircraft)
- Activating Toggle 4 will enable setting the PFD minimums (no need to deactivate Toggle 5)
- Now that the workflow is complete, unset all toggles.

The same approach applies to the other rotaries.

Button workflows move with the Toggles from left to right.

For example, for Heading related functions
- By default the HDG button on the Bravo triggers the HDG button on the Citation Honeywell AP panel
- Activating Toggle 1 maps the HDG button on the Bravo to the BANK button on the AP panel
- Activating Toggle 2 maps the HDG button on the Bravo to the HDG sync function on the PFD (note, no need to deactivate Toggle 1 as there are no aligned configurations for this aircraft).
- Activating Toggle 3 maps the HDG button on the Bravo to the OBS Direct function on the PFD (no need to deactivate Toggle 2).

Note, for this aircraft the Buttons only use Toggle 1-3 and the Rotarys only use Toggles 4-7, so both Button settings and Rotary settings can be active simultaneously as they do not overlap and will not interfere with each other. For example, Toggles 1 and 6 can both be active and you will get the expected behaviour from the Buttons and Rotarys.

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Default Configuration – Laminar Research Cirrus SR22

HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude 1000s up/down	Vertical Speed up/down	Heading up/down	VOR1 / LOC2 up/down	-	PFD	None active	PFD	HDG	NAV	APR	-	ALT	VS	-	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7									
Altitude 100s up/down			NAV coarse up/down	NAV fine up/down	MFD	Toggle 6	MFD	NAV 1-2 toggle	NAV flip active						
Barometer up/down			COM coarse up/down	COM fine up/down	PFD	Toggle 5	PFD	COM 1-2 toggle	COM flip active						
		FLP range up/down	FPL chapter up/down	FPL page up/down	MFD	Toggle 4	AP Panel	-	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 3									
						Toggle 2									
						Toggle 1	AP panel	PFD Heading sync	VNV			LVL	FLC		

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Cirrus SR22

PFD - Use Toggles 6 to configure the MFD NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between NAV1 & NAV2 as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).   Once the correct frequency is set, press the NAV button to flip the NAVx active and standby values.

Similarly, Toggle 5* (check no other toggles active) adjusts the PFD COM frequencies.

MFD flight plan entry. Set Toggle 4* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). The autopilot button map to the MFD buttons. Press FLP, PROC, Direct or MENU as required. Use the IAS button to select the first field and then use right-hand rotary to move between fields. Press AP to 'enter' a value. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between scrolling through a list and moving between lists (equivalent to adjusting the inner and outer knobs on the FMS control).

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Research Cirrus Vision SF50 Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Nose up/down	Heading up/down	VOR1 / VOR2 up/down	-	PFD	None active	PFD	HDG	NAV	APR	-	ALT	VS	-	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7									
Barometer up/down			NAV coarse up/down	NAV fine up/down	PFD	Toggle 6	PFD	NAV 1-2 toggle	NAV flip active						
			COM coarse up/down	COM fine up/down		Toggle 5 *	PFD	COM 1-2 toggle	COM flip active						
		FLP range up/down	FPL chapter up/down	FPL page up/down	MFD	Toggle 4 *	AP Panel	-	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 3									
						Toggle 2	AP panel	PFD CRS sync					LVL		
						Toggle 1	AP panel	PFD Heading sync	VNV			Altitude sync	FLC		

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Cirrus Vision SF50   Honeycomb0nArm64MacOS

PFD - Use Toggles 6 to configure the PFD NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between NAV1 & NAV2 as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).   Once the correct frequency is set, press the NAV button to flip the NAVx active and standby values.

Similarly, Toggle 5* (check no other toggles active) adjusts the PFD COM frequencies.

MFD flight plan entry. Set Toggle 4* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). The autopilot button map to the MFD buttons. Press FLP, PROC, Direct or MENU as required. Use the IAS button to select the first field and then use right-hand rotary to move between fields. Press AP to 'enter' a value. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between scrolling through a list and moving between lists (equivalent to adjusting the inner and outer knobs on the FMS control).

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Grumman F14 Tomcat

HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	-	Heading up/down	VOR1 up/down	-	-	None active		Heading hold	-	-	-	Altitude hold	-	-	AP on
fast/slow		fast/slow	fast/slow			Toggle 7									
Radar ALT up/down *		VEC / ACL up/down	TCN mode up/down			Toggle 6						Radar ALT test			
			TAC channel 1s up/down			Toggle 5									
			TAC channel 10s up/down			Toggle 4									
						Toggle 3									
						Toggle 2									
						Toggle 1						Pitch sync			AP disconnect

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Grumman F14 Tomcat

Note: the VEC/ACL rotary and the Radar ALT test button both activate the relevant commands in the SIM, but in both cases this does not trigger the corresponding animation in the aircraft (button moving for VEC/ACL, test light illuminating for Radar ALT test.

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Default Configuration – Laminar Research MD F4 Phantom II Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
-	-	Heading up/down	VOR1 up/down	-	Central panel	None active									
	fast/slow	fast/slow				Toggle 7									
			NAV 10s coarse up/down	NAV 100s fine up/down	Left-hand panel	Toggle 6									
			COM1 10s coarse up/down	COM1 100s fine up/down	Right-hand panel	* Toggle 5									
			COM2 10s coarse up/down	COM2 100s fine up/down		* Toggle 4									
						Toggle 3									
						Toggle 2									
						Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research MD F4 Phantom II   Honeycomb0nArm64MacOS

NAV - Use Toggles 6 to configure the NAV frequency. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the 100s and10s components of the frequency (equivalent to adjusting the left and right knobs on the NAV control).

Similarly, Toggle 5* (check no other toggles active) adjusts the COM1 frequency and Toggle 4* (check no other toggles active) adjusts the COM2 frequency.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Research Lancair Evolution HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Nose up/down	Heading up/down	VOR1 / VOR2 up/down	-	PFD	None active	AP panel	TRK	NAV	APR	-	ALT	SEL	-	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7									
Barometer up/down			NAV coarse up/down	NAV fine up/down	PFD	Toggle 6	* PFD	NAV 1-2 toggle	NAV flip active						
			COM coarse up/down	COM fine up/down		Toggle 5		COM 1-2 toggle	COM flip active						
		FLP range up/down	FPL chapter up/down	FPL page up/down	MFD	* Toggle 4	MFD	-	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 3									
						Toggle 2	PFD	VOR sync	AP VNAV						
						Toggle 1		Heading sync	AP GPSS				Altitude sync		

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Lancair Evolution

HoneycombOnArm64MacOS

PFD - Use Toggles 6 to configure the PFD NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between NAV1 & NAV2 as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).   Once the correct frequency is set, press the NAV button to flip the NAVx active and standby values.

Similarly, Toggle 5* (check no other toggles active) adjusts the PFD COM frequencies.

MFD flight plan entry. Set Toggle 4* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). The autopilot button map to the MFD buttons. Press FLP, PROC, Direct or MENU as required. Use the IAS button to select the first field and then use right-hand rotary to move between fields. Press AP to 'enter' a value. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between scrolling through a list and moving between lists (equivalent to adjusting the inner and outer knobs on the FMS control).

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar McDonnell Douglas 82

Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Nose up/down	Heading up/down	Pilot CRS up/down	Air speed up/down	MCP	None active	MCP	VOR LOC	FMS	ILS	-	Altitude hold	Vertical speed	Auto-throttle activate	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7									
	Autopilot source 1-2		Copilot CRS up/down		MCP	Toggle 6									
			NAV1 coarse up/down	NAV1 fine up/down	MCP	* Toggle 5									
			NAV2 coarse up/down	NAV2 fine up/down		* Toggle 4									
			COM1 left coarse up/down	COM1 left fine up/down	Radio panel	Toggle 3	Radio panel		COM1 flip active						
			COM1 right coarse up/down	COM1 right fine up/down		Toggle 2	*							IAS/Mach toggle	
						Toggle 1	MCP	Heading dial pull	VNAV	Autoland				FMS OVRD	

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar McDonnell Douglas 82

HoneycombOnArm64MacOS

MCP - Use Toggles 6 & 5 to configure the MCP NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). Use the right-hand rotary to adjust the NAV1 frequency (use Toggle 5 for NAV2). Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).

Radio panel - Similarly, Toggles 4* & 3* (check no other toggles active) adjust the radio panel left and right COM1 frequencies. (You can use Toggle 7 to control the speed it skips through the the decimal values). Use the NAV button to flip the 'active' frequency switch between left and right.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Piper PA-18 Super Cub

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	Artificial Horizon up/down	Gyro sync up/down	OBS up/down	-	Instrument cluster	None active									Engine starter
			fast/slow	fast/slow		Toggle 7									
Fuel selector up/down		COMM on/off	COMM coarse up/down	COMM fine up/down	COMM panel	Toggle 6									COM1 active flip
Magnetos selector up/down		NAV on/off	NAV coarse up/down	NAV fine up/down	NAV panel	Toggle 5									NAV1 active flip
XPDR 1s up/down	XPDR 10s up/down	XPDR 100s up/down	XPDR 1000s up/down	XPDR mode up/down	Transponder	Toggle 4									
						Toggle 3									
						Toggle 2									
						Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Piper PA-18 Super Cub

COMM - Use Toggle 6 to configure the COMM frequency.

- Set Toggle 6* (check no other Toggles active)
- If the COMM control is off, move the left-hand rotary to the HDG position and use the right-hand rotary to turn it on.
- Move the left-hand rotary to its bottom position (IAS) and use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COMM control).   Remember, you can use Toggle 7 to control the speed it skips through the decimal values
- Once the correct frequency is set, press the IAS button to flip the COMM active and standby values.

NAV - Similarly, Toggle 5* (check no other toggles active) adjusts the NAV frequency.

Transponder – Use Toggle 4 to adjust the transponder

- Set Toggle 4* (check no other Toggles active)
- Move the left-hand rotary to its upper position (ALT)
- Use the right-hand rotary to adjust the transponder mode the STBY
- Move the left-hand rotary down one click (VS) and set the 1000s digit for the transponder code
- Repeat one click down and one digit set until all 4 digits are correct
- Move the left-hand rotary back to its upper position (ALT) and set the transponder mode to ON or TST as required

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Robinson R22 Beta II (& floats)

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	-	-	VOR up/down	-	Main panel	None active	Main panel	-	-	-	-	BARO STD	-	-	-
		fast/slow	fast/slow	fast/slow		Toggle 7									
			COM / NAV coarse up/down	COM / NAV fine up/down	G430	Toggle 6	* G430	NAV - COM toggle	NAV flip active	COM flip active					
		Map range up/down	FPL chapter up/down	FPL page up/down		Toggle 5		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 4									
						Toggle 3									
						Toggle 2									
						Toggle 1									

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Robinson R22 Beta II (& floats)

G430 - Toggle 6* lets you adjust the COM and VLOC frequencies.
Set Toggle 6 (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).
Press the HDG button to flip between COM and VLOC as required. Use the right-hand rotary to adjust the frequency.
Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM/VLOC control).   Once the correct frequency is set, press the NAV button to flip the VLOC active and standby values or the APR button to flip the COM active and standby.

Similarly, Toggle 5* (check no other toggles active) adjusts the right-hand G430 control, which is used to input the flight plan and related data. The other autopilot buttons map the to CDI, FPL, VNAV, PROC, ENT, CLR, MENU and Direct buttons plus PUSH/CRSR.

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Research Schleicher ASK 21 Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	-	COM on/off	COM coarse up/down	COM fine up/down	-	None active	-	Canopy open/close	-	-	-	-	-	COM 1-2 flip	Tow release
						Toggle 7									
						Toggle 6									
						Toggle 5									
						Toggle 4									
						Toggle 3									
						Toggle 2									
						Toggle 1									

User guidance – Laminar Research Schleicher ASK 21

COM Frequencies

- If required, move the left-hand rotary to HDG and use the right-hand rotary to turn on the COM radio
- Press the IAS button as required to select COM1 or COM2
- Move the left-hand rotary to its bottom position (IAS) and use the right-hand rotary to adjust the frequency.
- Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM control).

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Default Configuration – Laminar Research Sikorski S-76C

Honeycomb0nArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	-	Pilot heading up/down	Pilot OBS up/down	-	Instrument panel	None active	AP panel	HDG	NAV	APP	-	ALT	Level change	Speed hold	AP
fast/slow		fast/slow	fast/slow	fast/slow		Toggle 7									
			COM / VLOC coarse up/down	COM / VLOC fine up/down	G530	Toggle 6	* G530	COM / VLOC toggle	VLOC active flip	COM 1 active flip					
		Map range up/down	FPL chapter up/down	FPL page up/down		Toggle 5		CDI	FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
		COM2 coarse up/down	COM2 fine up/down	COM panel	Toggle 4	* COM panel	COM 2 active flip								
		NAV2 coarse up/down	NAV2 fine up/down	NAV panel	Toggle 3	* NAV panel	NAV 2 active flip								
		ADF 100s up/down	ADF 10s up/down	ADF panel	Toggle 2	* ADF panel	ADF flip active								
Barometer up/down					Instrument panel	Toggle 1	* AP panel			ILS		Barometer STD			

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research Sikorski S-76C

HoneycombOnArm64MacOS

MCP - Use Toggles 6 & 5 to configure the MCP NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). Use the right-hand rotary to adjust the NAV1 frequency (use Toggle 5* for NAV2). Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).

Radio panel - Similarly, Toggles 4* & 3* (check no other toggles active) adjust the radio panel left and right COM1 frequencies. (You can use Toggle 7 to control the speed it skips through the the decimal values). Use the NAV button to flip the 'active' frequency switch between left and right.

ADF – Toggle 2* (check no other Toggles active) adjusts the ADF frequency. IAS & CRS flip between adjusting the 10s units of the frequency and the 100s units. Once the correct frequency is dialed in, pressing the HDG button will flip the active and standby values.

* Aligned configuration – only one Toggle to be active at a time

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Default Configuration – Laminar Stinson L5 Sentinel

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Barometer up/down	-	-	-	-	-	None active	-	-	-	-	-	-	-	COM 1 active flip	-
				fast/slow		Toggle 7									
		COM1 on/off	COM coarse up/down	COM fine up/down		Toggle 6								COM 1 active flip	
Magneto selector up/down						Toggle 5									
Fuel Selector up/down						Toggle 4									
						Toggle 3									
						Toggle 2									
XPDR 1s up/down	XPDR 10s up/down	XPDR 100s up/down	XPDR 1000s up/down	XPDR mode selector	Transponder	Toggle 1									

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User guidance – Laminar Research Stinson L5 Sentinel

HoneycombOnArm64MacOS

COM - Use Toggle 6 to configure the COM frequency.

- Set Toggle 6
- If required, move the left-hand rotary to HDG and use the right-hand rotary to turn on the COM radio
- Move the left-hand rotary to its bottom position (IAS) and use the right-hand rotary to adjust the frequency.
- Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the COM control). Remember, you can use Toggle 7 to control the speed it skips through the decimal values
- Once the correct frequency is set, press the IAS button to flip the COM active and standby values.

Transponder – Use Toggle 4 to adjust the transponder

- Set Toggle 1
- Move the left-hand rotary to its lowest position (IAS)
- Use the right-hand rotary to adjust the transponder mode the STBY
- Move the left-hand rotary up one click (CRS) and set the 1000s digit for the transponder code
- Repeat one click up and one digit set until all 4 digits are correct
- Move the left-hand rotary back to its lowest position (IAS) and set the transponder mode to ON or TST as required

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Default Configuration – Laminar Research VAN'S RV-10

HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Device	Active Toggle	Device	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude 1000s up/down	Nose up/down	Heading up/down	VOR1/VOR2 up/down	-	PFD	None active	AP panel	TRK	NAV	APR	REV	ALT	SEL	-	AP
fast/slow	fast/slow	fast/slow	fast/slow	fast/slow		Toggle 7									
Barometer up/down			NAV coarse up/down	NAV fine up/down	PFD	Toggle 6	* PFD	NAV 1-2 toggle	NAV flip active						
			COM coarse up/down	COM fine up/down		Toggle 5		COM 1-2 toggle	COM flip active						
		FLP range up/down	FPL chapter up/down	FPL page up/down	MFD	Toggle 4	* MFD		FPL	PROC	Direct	MENU	CLR	CURSOR	ENT
						Toggle 3									
						Toggle 2	PFD	VOR sync	AP VNAV						
						Toggle 1	PFD	Heading sync	AP GPSS						

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

* Aligned configuration – only one Toggle to be active at a time

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User guidance – Laminar Research VAN'S RV-10

HoneycombOnArm64MacOS

PFD - Use Toggles 6 to configure the PFD NAV frequencies. Set Toggle 6* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS).   Press the HDG button to flip between NAV1 & NAV2 as required. Use the right-hand rotary to adjust the frequency. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between adjusting the frequency right and left of the decimal (equivalent to adjusting the inner and outer knobs on the NAV control).   Once the correct frequency is set, press the NAV button to flip the NAVx active and standby values.

Similarly, Toggle 5* (check no other toggles active) adjusts the PFD COM frequencies.

MFD flight plan entry. Set Toggle 4* (check no other Toggles active) and move the left-hand rotary to its bottom position (IAS). The autopilot button map to the MFD buttons. Press FLP, PROC, Direct or MENU as required. Use the IAS button to select the first field and then use right-hand rotary to move between fields. Press AP to 'enter' a value. Use the left-hand rotary in the bottom two positions (IAS & CRS) to flip between scrolling through a list and moving between lists (equivalent to adjusting the inner and outer knobs on the FMS control).

If you move the left-hand rotary to its middle position (HDG) then the right-hand rotary zooms in and out of the map.

* Aligned configuration – only one Toggle to be active at a time

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3rd Party Aircraft

Default Configuration – Zibo Boeing 737-800

HoneycombOnArm64MacOS

Rotary ALT	Rotary VS	Rotary HDG	Rotary CRS	Rotary IAS	Active Toggle	Button HDG	Button NAV	Button APR	Button REV	Button ALT	Button VS	Button IAS	Button AP
Altitude up/down	Vertical speed up/down	Heading up/down	Pilot COURSE up/down	Airspeed up/down	None active	Heading select	LNAV	APP	-	ALT HOLD	VS	Speed	CMD A
fast/slow		fast/slow	fast/slow		Toggle 7								
Captain Barometer up/down		MAP zoom in/out	Copilot COURSE up/down		Toggle 6								
Captain decision height up/down		Bank angle up/down			Toggle 5								
Captain HPA / IN flip		Captain Map mode			Toggle 4								
					Toggle 3								CWS B
					Toggle 2	Captain EFIS TFC				Captain EFIS RST			CWS A
					Toggle 1	Captain EFIS CTR	VNAV	VOR/LOC		Captain EFIS STD	Level change		CMD B

for rotary controls, the lowest numbered active toggle is the one applied

for autopilot buttons, the highest numbered active toggle is the one applied

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User guidance – Zibo Boeing 737-800

The most common controls in flight operate by default (i.e., when no toggles are active).

Rotary workflows move with the toggles from right to left.

For example, for Altitude related functions set the left-hand rotary to the ALT position.
- By default the right-hand rotary will adjust the altitude setting in the PFD (note that Toggle 7 can be used here to control moving quickly or accurately when adjusting the altitude).
- Activating Toggle 6 will enable setting the captain PFD QNH,
- Activating Toggle 5 will enable setting the captain decision height (no need to deactivate Toggle 6)
- Activating Toggle 4 will enable setting the captain Baro units (no need to deactivate Toggle 5,
- Now that the workflow is complete, unset all toggles.

The same approach applies to the other rotaries.

Button workflows move with the Toggles from left to right.

For example, for Heading related functions
- By default the HDG button on the Bravo triggers the HDG button AP panel
- Activating Toggle 1 maps the HDG button on the Bravo to the Captain's EFIS CTR button
- Activating Toggle 2 maps the HDG button on the Bravo to the Captain's EFIS TFC button

Note, for this aircraft the Buttons only use Toggle 1-3 and the Rotarys only use Toggles 4-7, so both Button settings and Rotary settings can be active simultaneously as they do not overlap and will not interfere with each other. For example, Toggles 1 and 6 can both be active and you will get the expected behaviour from the Buttons and Rotarys.

End of Configuration Guide

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