Instruction manual for building your own GMC 710 for Flight Simulators Version 0.1

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3D Printing of all parts		Tools
	Tips & Tricks Use a cheap hairspray to getting the better stuck on the print bet. The big parts like front panel and bridge don't need any skirt. Better result and less cleaning after the print has been finished.	
Preparing front panel		
	 Prepare the front panel with a M3 screw tap. Prepare with M3 screw tap Be careful do not break through the front panel 	M3 screw tap
	To fit the arrow glas in to the front-panel use very little glue.	
Preparing PCB		MCD20547
		MCP20S17

 Put the microchips gently in to the PCB Solder carefully from the upper site 	
 Check the direction of the chip, the indentation has to correlate with the print on the PCB as shown on the image. 	
 Put the micros switches gently on PCB Solder them from the frontsite 	
 Put the rotary encoder in to the PCB Solder them from the frontside 	Javino
 Prepare all LED's with the spacer The longer pin on the LED = + Check the correct direction and polarity as shown in the image 	+

• Put the PCB in the front case you can do this after all LED's are in position. • Put the PCB in the front case you can do this after all LED's are in position. • Use one or two screws to be sure the PCB is in the correct position. • Use one or two screws to be sure the PCB is in the correct position. • Use one or two screws to be sure the PCB is in the correct position. • Bevor you start solder the pins from the LED check if the LED are aligned with the front of the PCB. • Repeat these steps until all LED's are aligned with the front of the PCB. • Seemble VS Whell • Prepare the VS Wheel to solder on the PCB. • Slide the Wheel on to the Rotary Encoder until the end of the groove. • Slide the Wheel on the Rotary Encoder until the end of the groove. • Slide the wheelblock on the Rotary Encoder until the end of the groove.		 Put the LED with spacer gently on PCB The direction has to corralate with the print on the PCB as shown in the image Do not solder them just bend the pin on the front site so they won't slide out! 	
• Use one or two screws to be sure the PCB is in the correct position. • Use one or two screws to be sure the PCB is in the correct position. • Bevor you start solder the pins from the LED check if the LED are aligned with the front of the PCB • Bevor you start solder the pins from the LED check if the LED are aligned with the front of the PCB • Repeat these steps until all LED's are aligned and soldered • Prepare the VS Whell • Second VS Whell • Prepare the VS Wheel to solder on the PCB • Slide the Wheel on to the Rotary Encoder until the end of the groove • Slide the wheelblock on the Rotary Encoder until the end of the groove • Slide the wheelblock on the Rotary Encoder until the end of the groove • Slide the wheelblock on the Rotary Encoder until the end of the groove		 Put the PCB in the front case you can do this after all LED's are in position, or you do this as example after you the first two LED's are in position. 	
• Bevor you start solder the pins from the LED check if the LED are aligned with the front of the PCB • Repeat these steps until all LED's are aligned and soldered • Assemble VS Whell • Prepare the VS Wheel to solder on the PCB • Slide the Wheel on to the Rotary Encoder until the end of the groove • Slide the wheelblock on the Rotary Encoder as well		• Use one or two screws to be sure the PCB is in the correct position.	
Assemble VS Whell Prepare the VS Wheel to solder on the PCB Slide the Wheel on to the Rotary Encoder until the end of the groove Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well Slide the wheelblock on the Rotary Encoder as well 		 Bevor you start solder the pins from the LED check if the LED are aligned with the front of the PCB Repeat these steps until all LED's are aligned and soldered 	
 Prepare the VS Wheel to solder on the PCB Slide the Wheel on to the Rotary Encoder until the end of the groove Slide the wheelblock on the Rotary Encoder as well 	Assemble VS Whell		
		 Prepare the VS Wheel to solder on the PCB Slide the Wheel on to the Rotary Encoder until the end of the groove Slide the wheelblock on the Rotary Encoder as well 	

	 Put the prepared VS Wheel on to the PCB Mount the Wheelblock with 2x M3 x5 Solder the Pins 	M3 x5
	 Put every Push-Button in position The correct order you take from the front view presentation 	
HDG APR NAV FD XFR ALT VS FLC Front View BC BANK AP YD VNAV SPD		
Assemble the button		
	 Use 4 screws to assemble the PCB in the case. Use the plastic washer for all screws this is very IMPORTANT to reduce damages and errors. 	M3 x8 M3 plastic washer
	 Bring all the turn Knobs in the correct position 	
	 Gently put the Arduino Micro in position, please check the correct direction of the USB output plug 	

	 Finally plug the USB cable in to the Arduino Plug a close an assemble the back cover with 2 screws. 	
Step 2		
Install the Client on your Windows System		
https://github.com/Steelwings- Production/GMC710V2_WindowsClient/releases/tag/v1.0		