General planning on the instrument panel, first ideas

Category: 5.1. Planning electrical / instruments
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I have not yet started designing a panel layout.

Up to this point, I'm quite convinced to use the Garmin G3X touch system for my main instruments.

Going for a dual screen setup with dual garmin autopilot installed. (Configured with 2 GSA 28 integrated servos for pitch and roll autopilot)

With 2 displays, you can configure your panel to provide more information in the least amount of space. Seamlessly integrate two 10.6-inch displays. Configure 1 display as a split PFD and MFD, and the other as a dedicated display for a variety of features, including traffic, geo-referenced charts or engine information. A cobnfiguration like this also offers full backup capability in case one display fails.

Each G3X Touch system comes with :

- 1 or more displays (with or without SiriusXM weather capability)
- Air Data, Attitude and Heading Reference System (ADAHRS) sensors
- Magnetometer, which determines the aircraft’s magnetic heading
- Outside air temperature probe
- Engine Indication System (EIS) interface with engine sensor kits .

The G3X Touch comes equipped to take advantage of Connext, which is anetwork link and in-cockpit wireless connectivity system which can connect a mobile device to your flight system.

It shows engine parameters, moving map, PFD, ND and drives the autopilot servo's.

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Some video sampling the G3X at Sun'n Fun here.

Another full scope G3X flight solutions video presentation by Garmin here

So far, I already purchased the following components related to the instrument panel :

- VERTICAL POWER VP-X-P PRO with connector kit

- throttle quadrant

- magnetic compass

- starter contacts

- TRIG TT22 XPDR W/ 4FT WIRE HARNESS

- COMANT CI-105 DME XPDR ANTENNA

- Altimeter from Vans

- HSI from Vans

- RAC STICK GRIP G407 and RAC G401

- toggle switches with colored covers

- COMANT CI-122 VHF COMM ANTENNA BNC

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