EAA Homebuilders Week



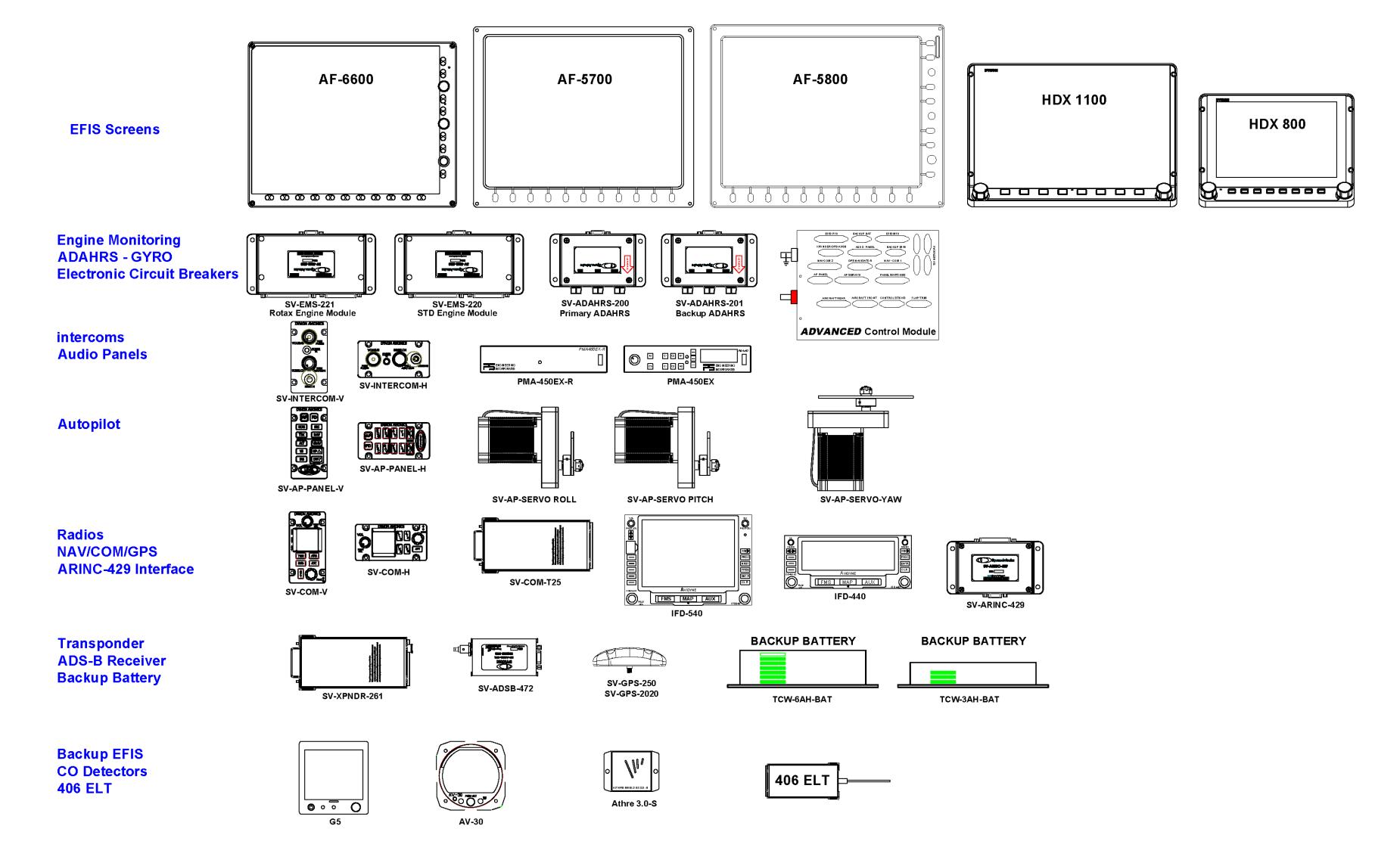


ADVANCED PANEL

We supply everything you need for your experimental aircraft's avionics and panel wiring!

- From a simple single EFIS VFR configuration to a complex 3 EFIS IFR we have everything you need.
- We are an OEM dealer for Avidyne, PS Engineering, Uavionix, Rami Antennas, Aithre CO / O2 systems, ACK ELT's.
- We do everything from supplying all the components for you to wire to a complete ready-to-install and tested instrument panel.

One place to call to purchase all your avionics and one place to call when you need support!





DYNON

AF-6600 EFIS

- The AF-6600 EFIS is a drop in replacement for an AF-5600
 - Same Mounting
 - Same Wiring
 - Fully compatible with any existing AF-5000 EFIS in your panel.



The AF-6600 EFIS uses a custom front mounted 10.4" LCD with under glass logo and white button lines like our HDX EFIS. The new LCD has more vivid colors and is brighter than our current AF-5600 LCD.



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- New advanced Intel i3 CPU enables EFIS and Moving Map display updates at 60 hz.



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- Faster boot time approximately 20 seconds



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- Dual concentric encoder for a more intuitive user interface.
- New encoder knobs



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- Light sensor for automatic backlight adjustment
 Will also dim AF-5000 units on the network



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- Light sensor for automatic backlight adjustment
- New compact rear cover reduces panel depth requirements





- Support for the new PDA-450EX-R Audio Panel
 - USB C Charging Port
 - 2 Bluetooth Inputs



- Support for the new PDA-450EX-R Audio Panel
 - USB C Charging Port
 - 2 Bluetooth Inputs
- New Airport Info Page with Buttons for:
 - CTAF/ Tower frequency
 - Altitude Bug set to TPS
 - Altimeter Baro set to ADS-XM
 - Sets best RWY in Flight Plan using Wind Data
 - Sets HDG Bug to Bearing to Airport



- Support for the new PDA-450EX-R Audio Panel
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- New Airport Info > RWY Page
 - Wind Calculation for selected Runway
 - Runway Select Buttons will set RWY in FP

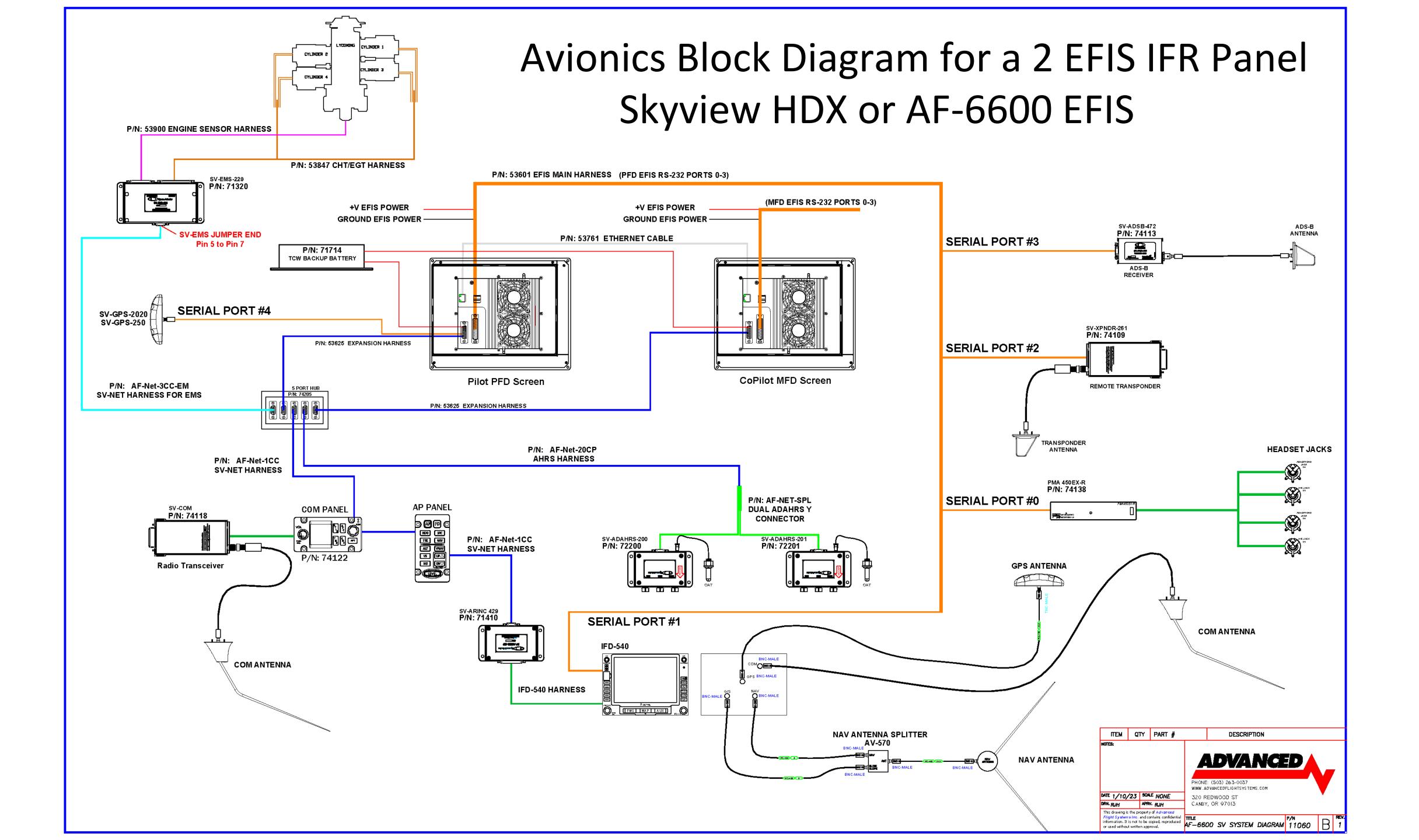


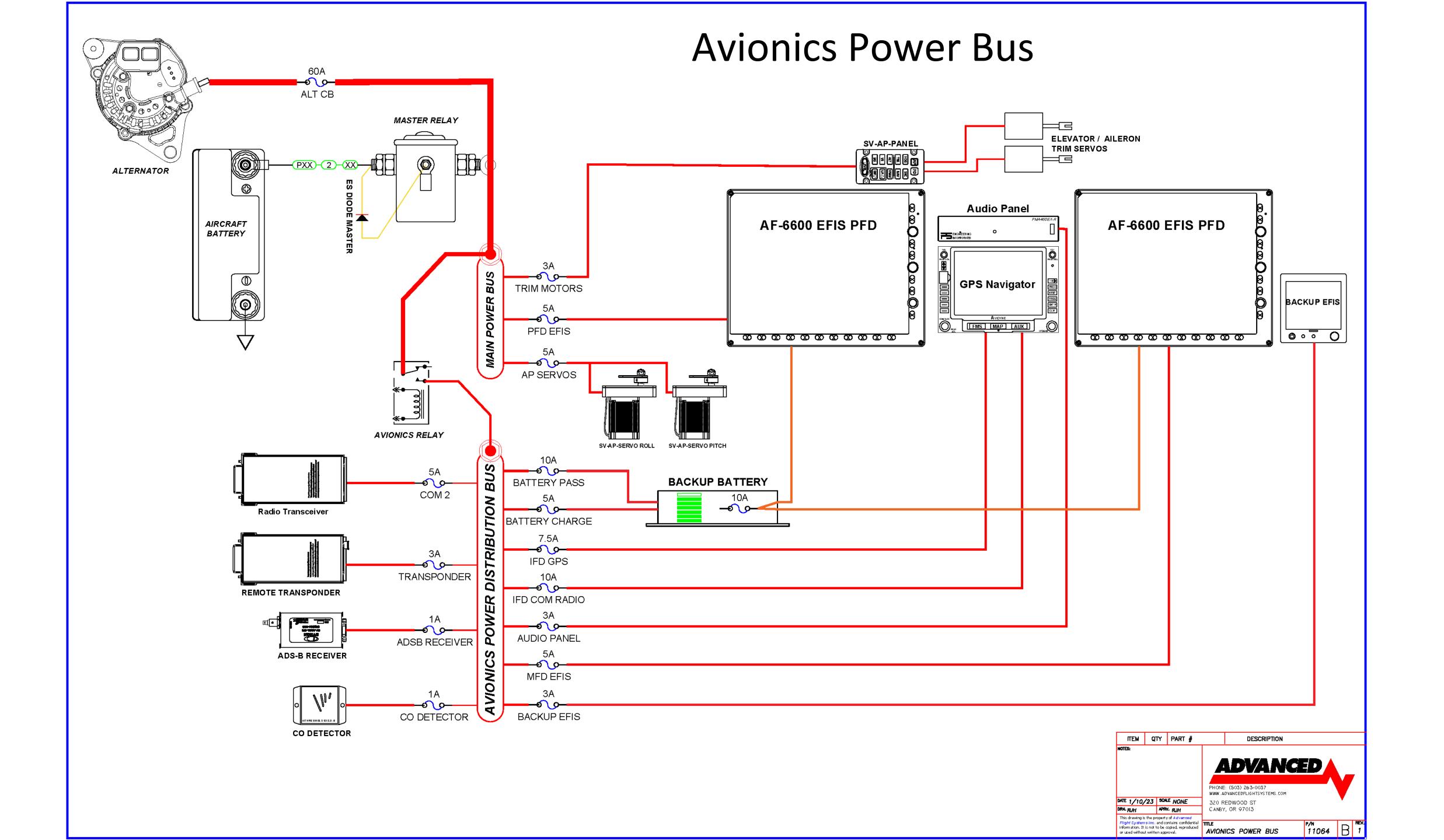
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- Interface for Aithre CO and Oxygen Systems
 - Cabin Carbon Monoxide
 - Oxygen Tank Pressure
 - Pulse Oximeter Display for Crew & Passengers

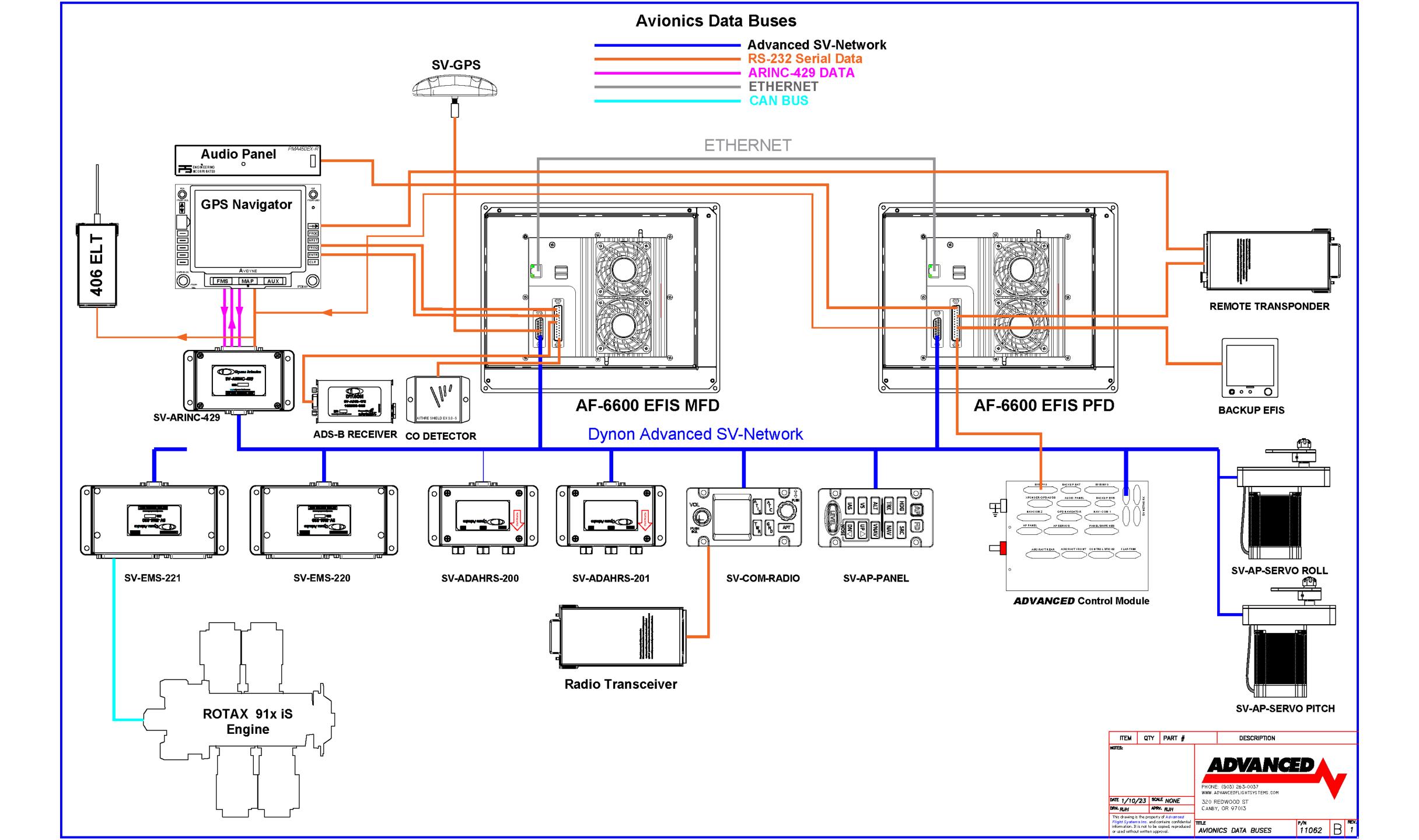


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- Support for Dual Com Radios



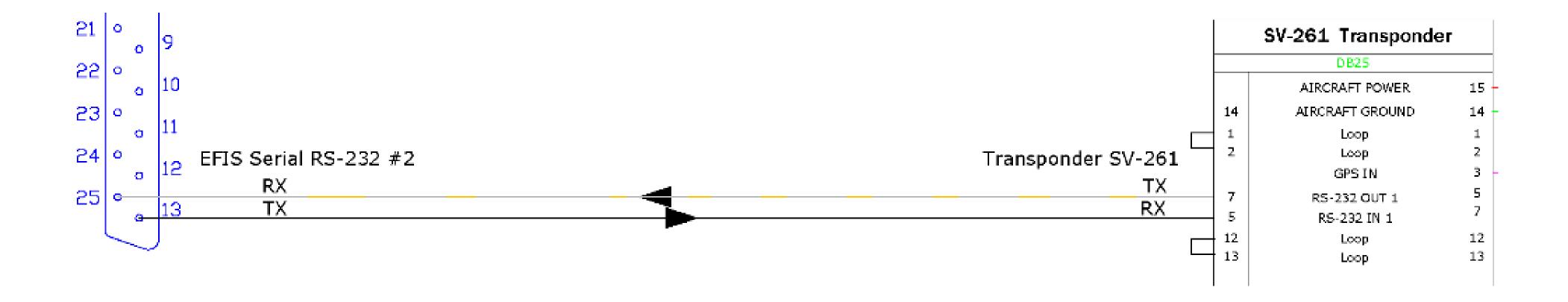






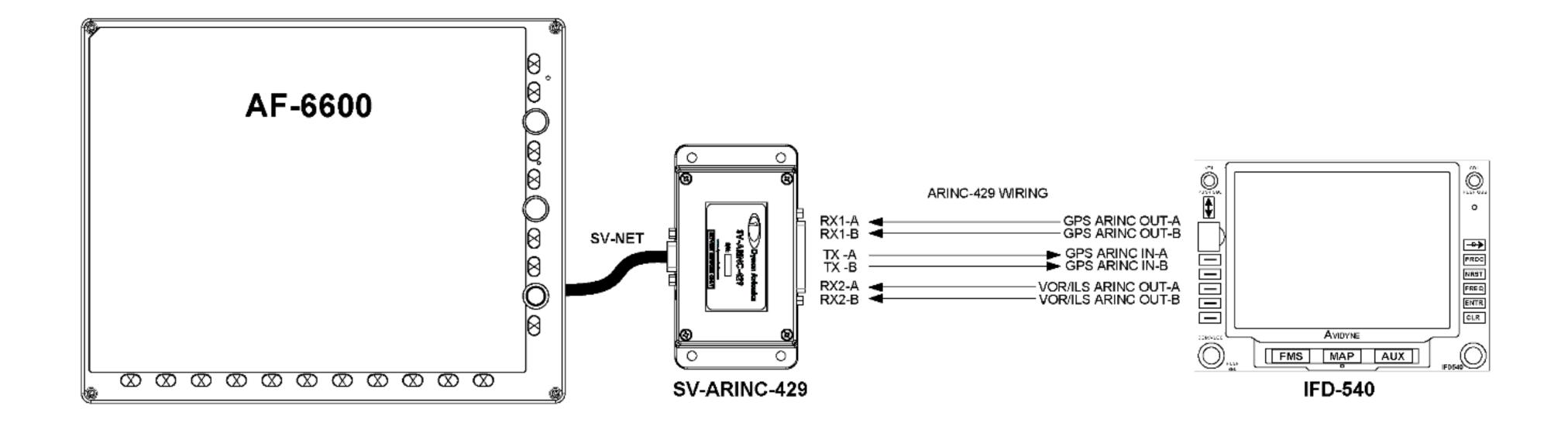
RS-232 Serial Data

Many aviation components use a RS-232 serial connection to share data. RS-232 connection has a single transmit wire (labeled TX or TXD) and a single receive wire (labeled RX or RXD). RS-232 was really designed for only two devices to share data between them. You can have a limited number of devices receive data from a single transmitter, but there should never be two transmitters on the same connection. One thing that seems to confuse people new to wiring is the need to connect the TX wire on one component to the RX wire on the other component.



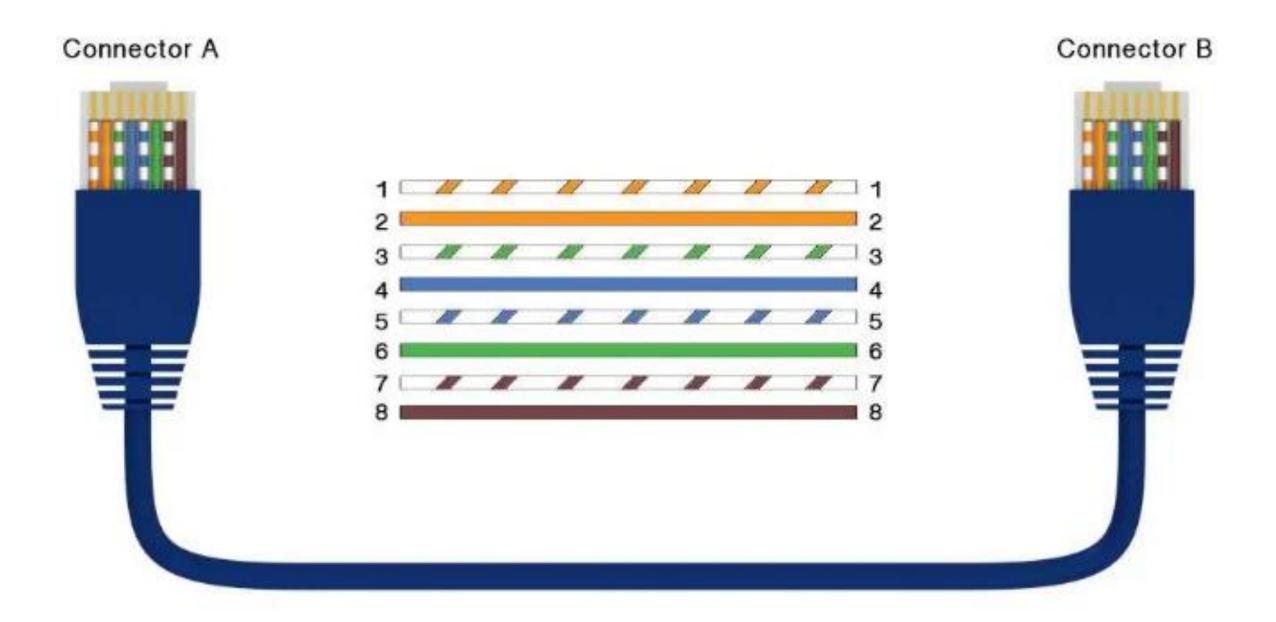
ARINC-429

ARINC-429 is a data transfer standard for aircraft avionics. The physical connection wires are on twisted pairs (Tx and Rx are on separate ports). A single wire pair is limited to one transmitter and no more than 20 receivers. If you are installing a certified NAV-COM-GPS (IFD-440, IFD540, IFD-550, GTN-650, GTN-750, GPS-175, GNS-430W) you will need to wire ARINC-429 data connections. Just like RS-232, you need to connect the TX wires on one component to the RX wires on the other component.



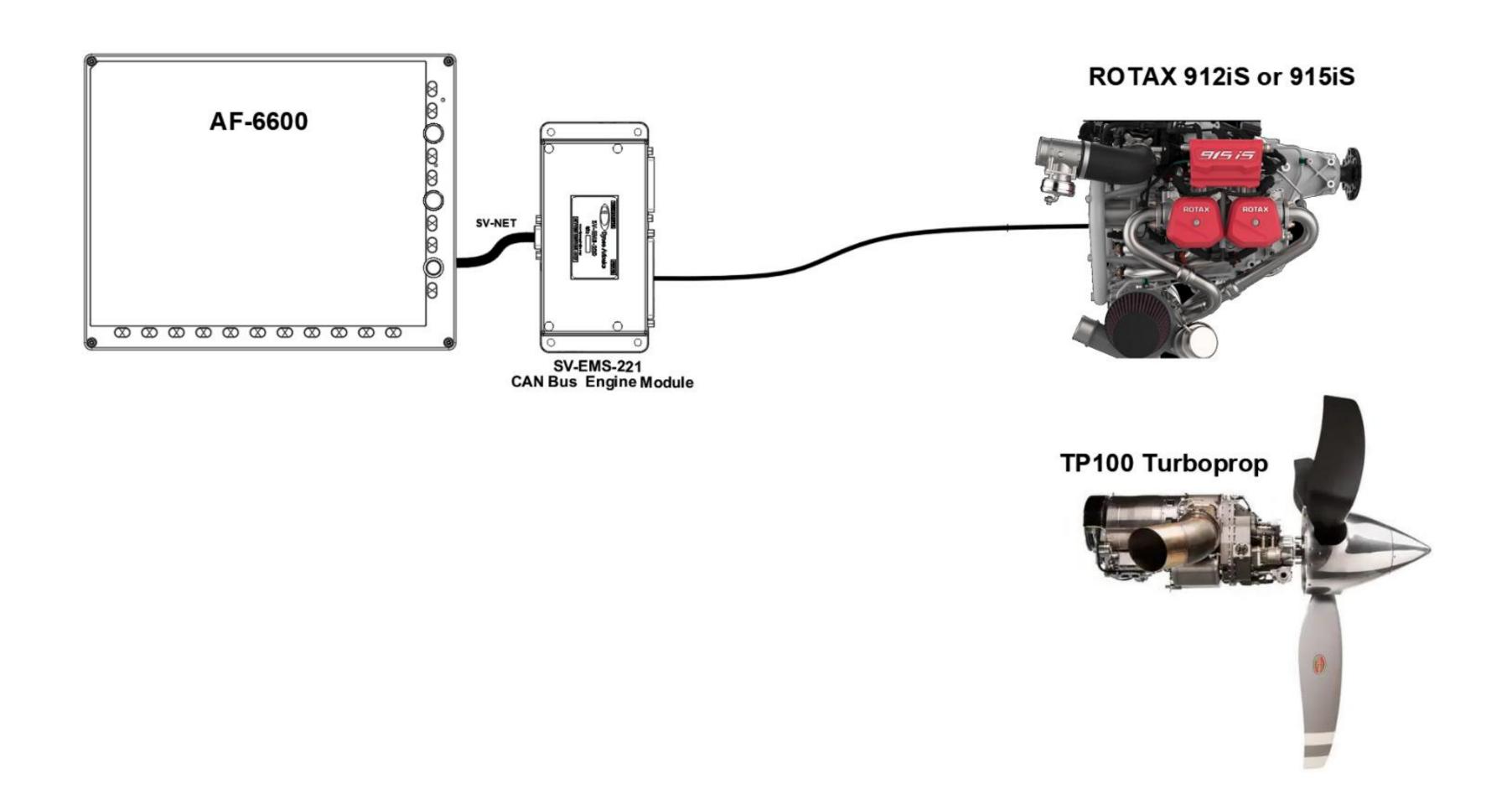
Ethernet

The AF-6600/AF-5000 EFIS screens have an 8-Pin RJ45 female Ethernet connector. The Ethernet network is used to share high-speed data between the EFIS screens and to get data from the optional XM weather module. The EFIS is designed to use a standard non-crossover Ethernet cable. If you only have two EFIS screens in the aircraft panel you can use a single Ethernet cable to connect the screens together. If you have a three EFIS screen panel or have the XM Weather module you will need to use an Ethernet Switch/Hub.



CAN Bus

The **Controller Area Network** (**CAN bus**) is designed to allow devices to communicate over a twisted pair of 120 ohm wires. The Dynon SV-EMS-221 engine module is designed to interface the AF-6600/AF-5000 EFIS to an engine FADEC controller that uses a CAN bus interface.



Aircraft Power Bus Wiring ALT CB REMOVE JUMPER LEAVE JUMPER TO STARTER BODY ES 149-12LS STARTER RELAY MASTER RELAY ES 24115 ES PC680 BATTERY ES 322870 STROBE - NAV ALTERNATOR STROBE LIGHTS **NAV LIGHTS** LANDING LIGHT LANDING LIGHT 18 AWG TAXI LIGHT TAXI LIGHT FUEL PUMP PITOT HEAT

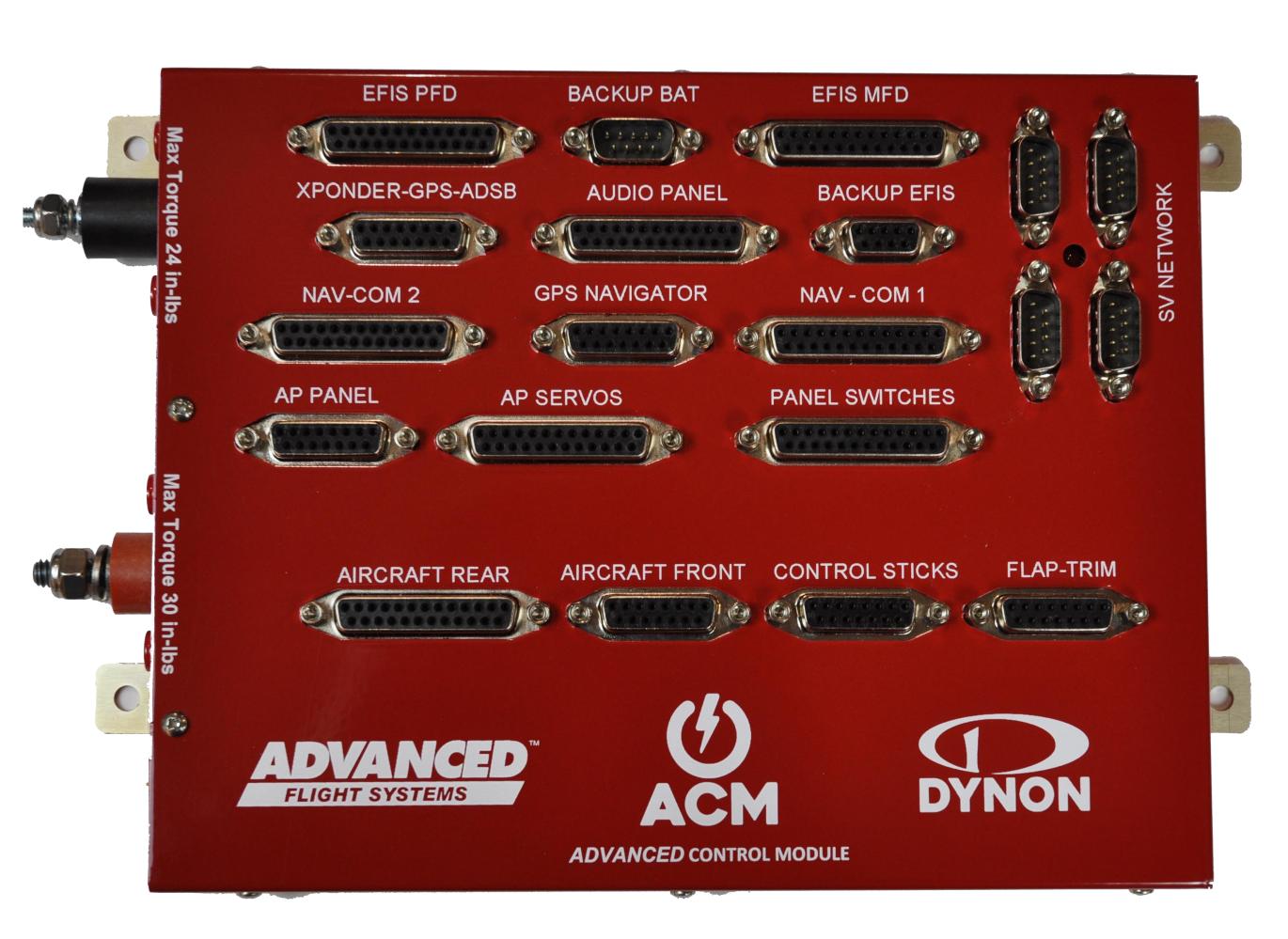


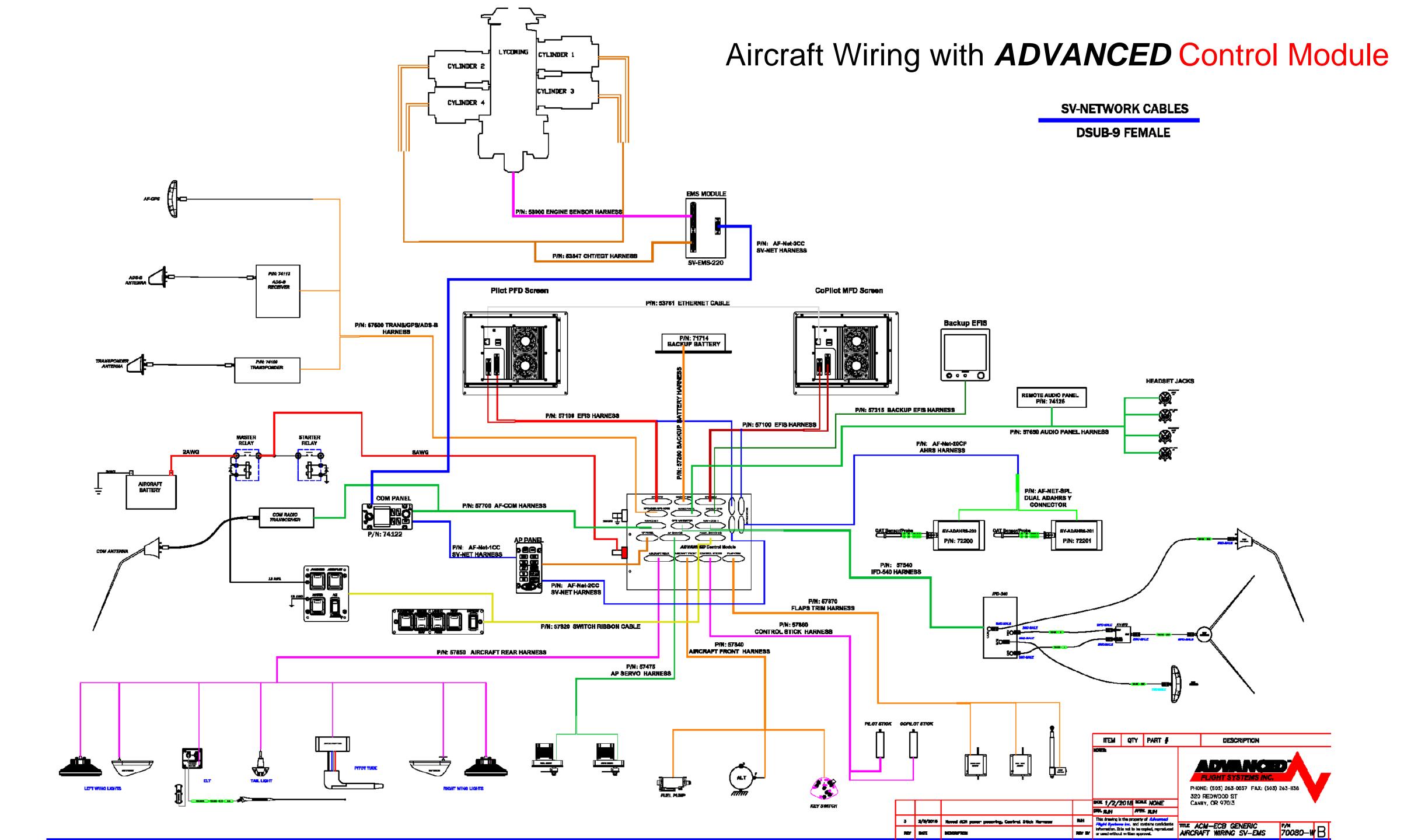
ADVANCED Control Module with Electronic Circuit Breakers



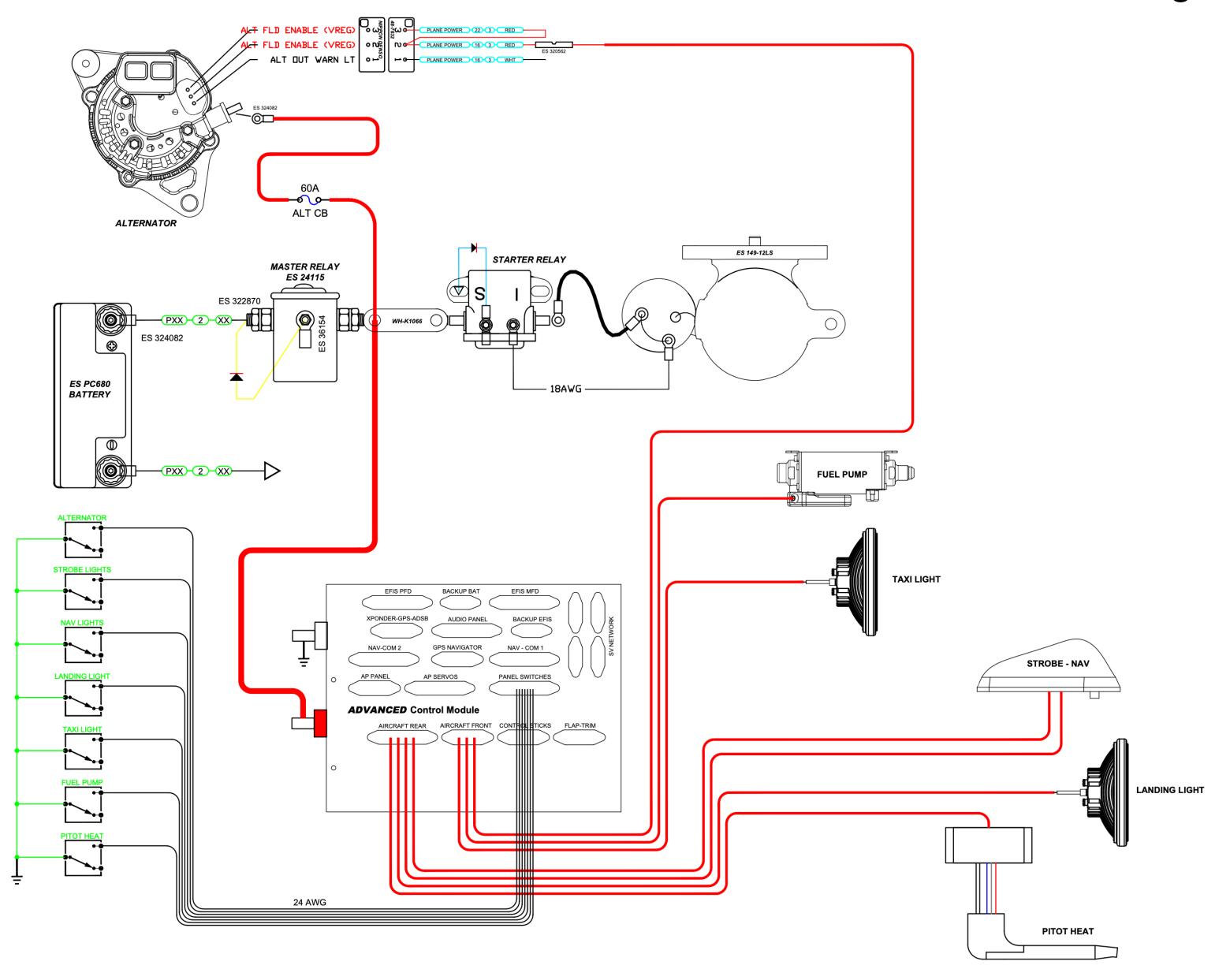
The Advanced Control Module "ACM" is the main power distribution center for the aircraft's electrical system - avionics, headsets, aircraft lights, autopilot servos, trim servos, flap motor, control sticks and panel switches all get connected to the ACM.

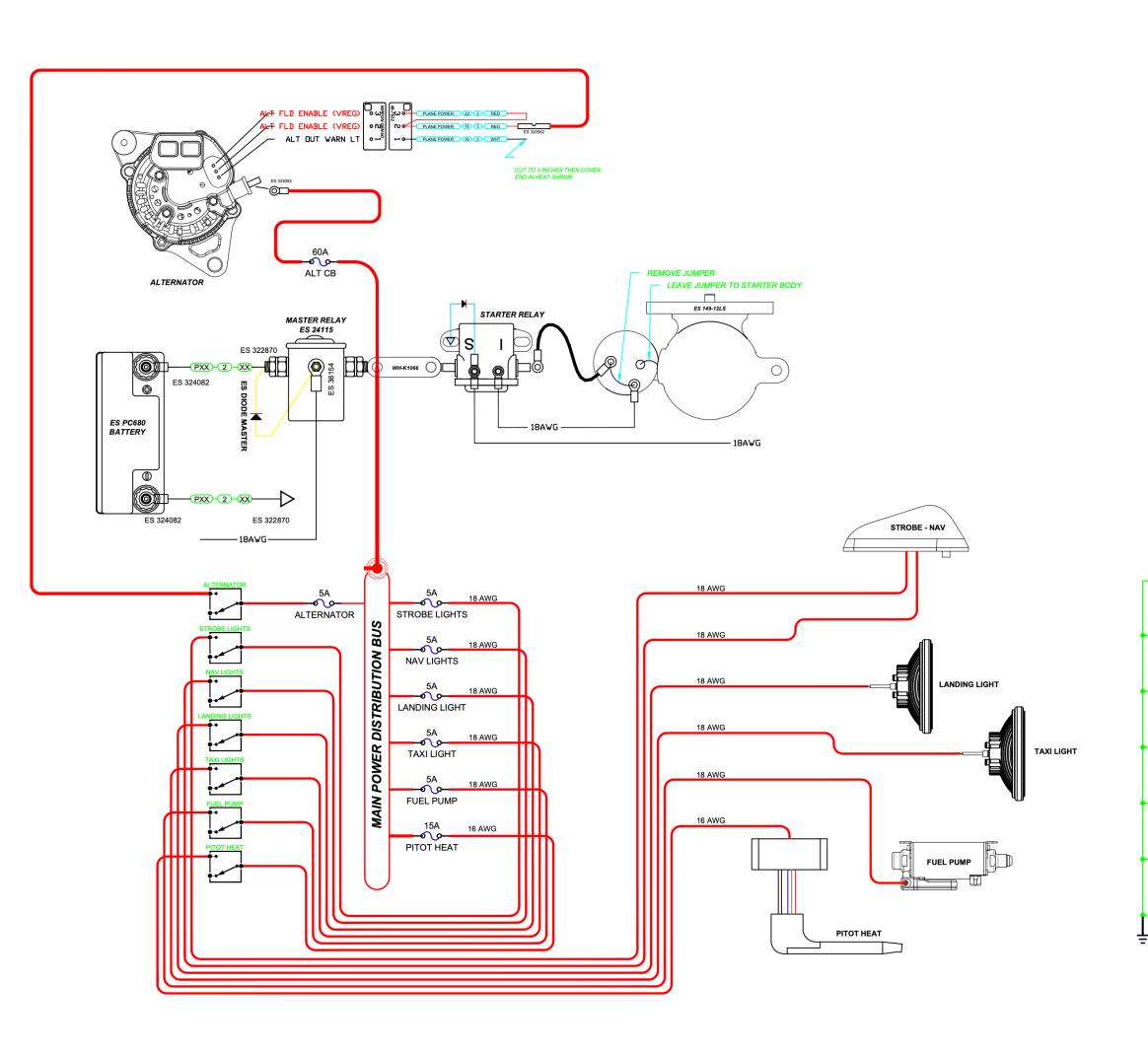
- Using the ACM with its plug-and-play features vastly simplifies an aircraft's wiring and troubleshooting.
- The ACM also makes future upgrades incredibly easy. Want to add an IFR Navigator in the future? No problem, just plug it into the ACM NAV-COM and GPS NAVIGATOR plugs. The complex and time consuming (Audio Panel, GPS RS-232 data, NAV ARINC data and GPS ARINC) wiring is already done.

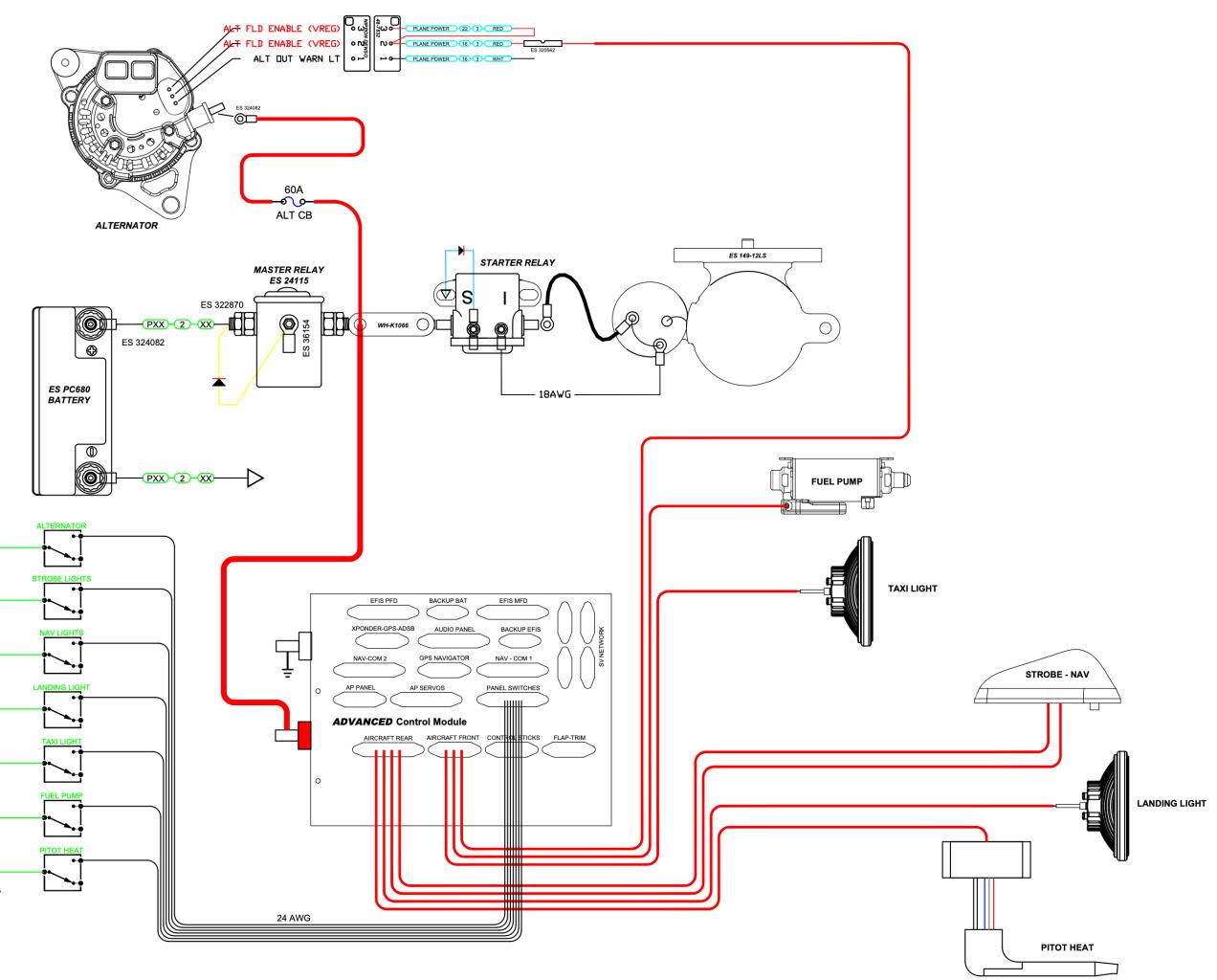




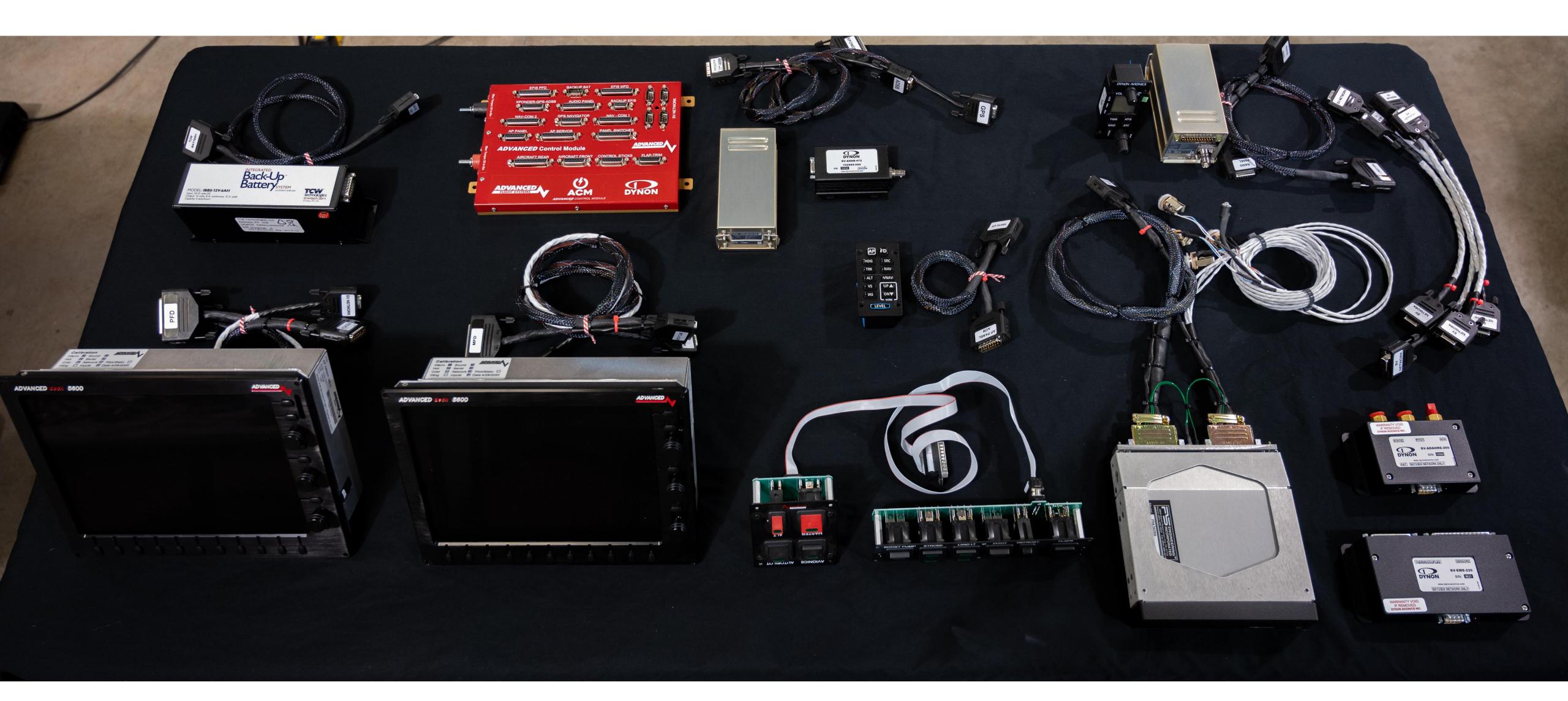
Aircraft Wiring with ADVANCED Control Module



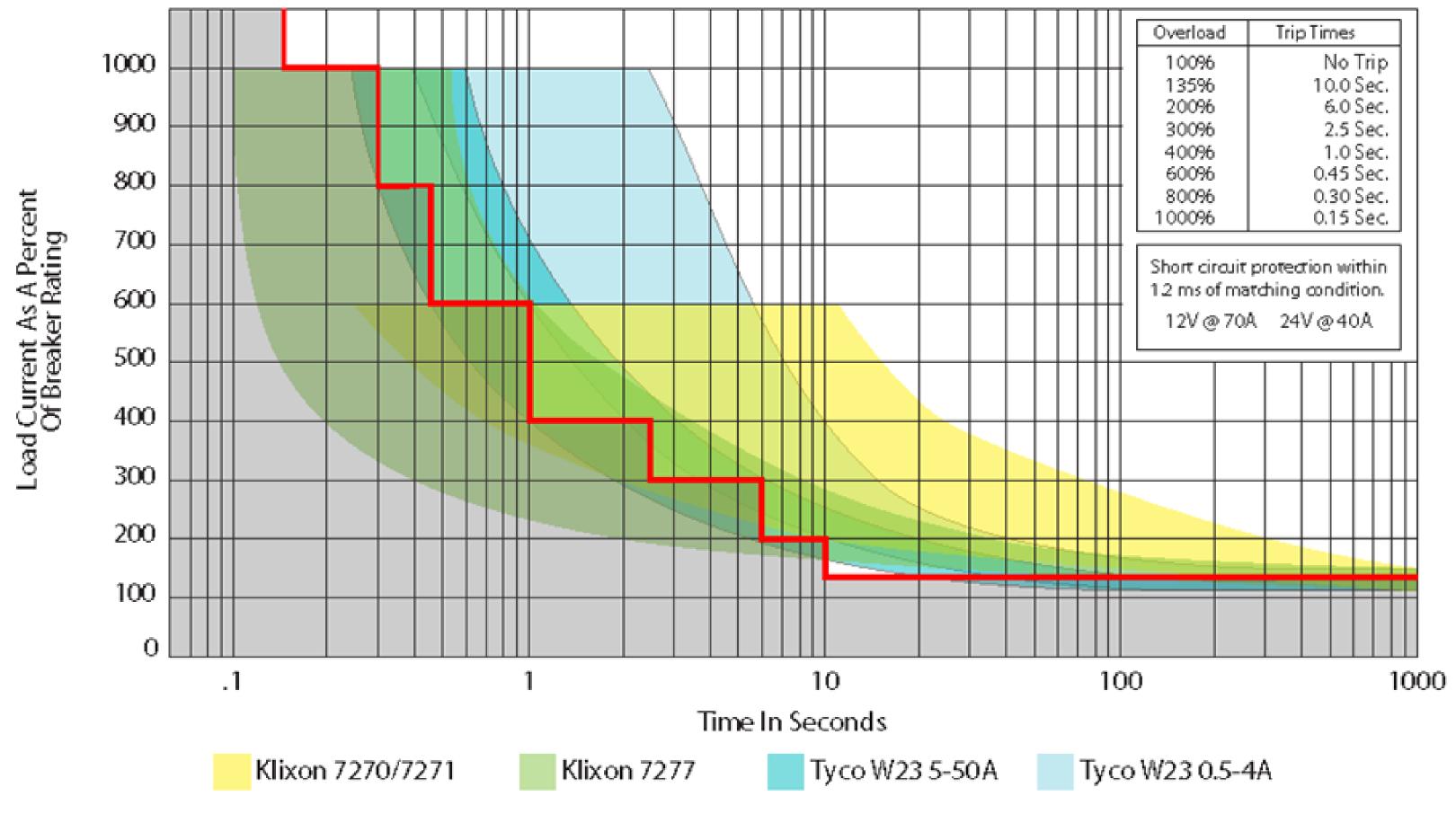






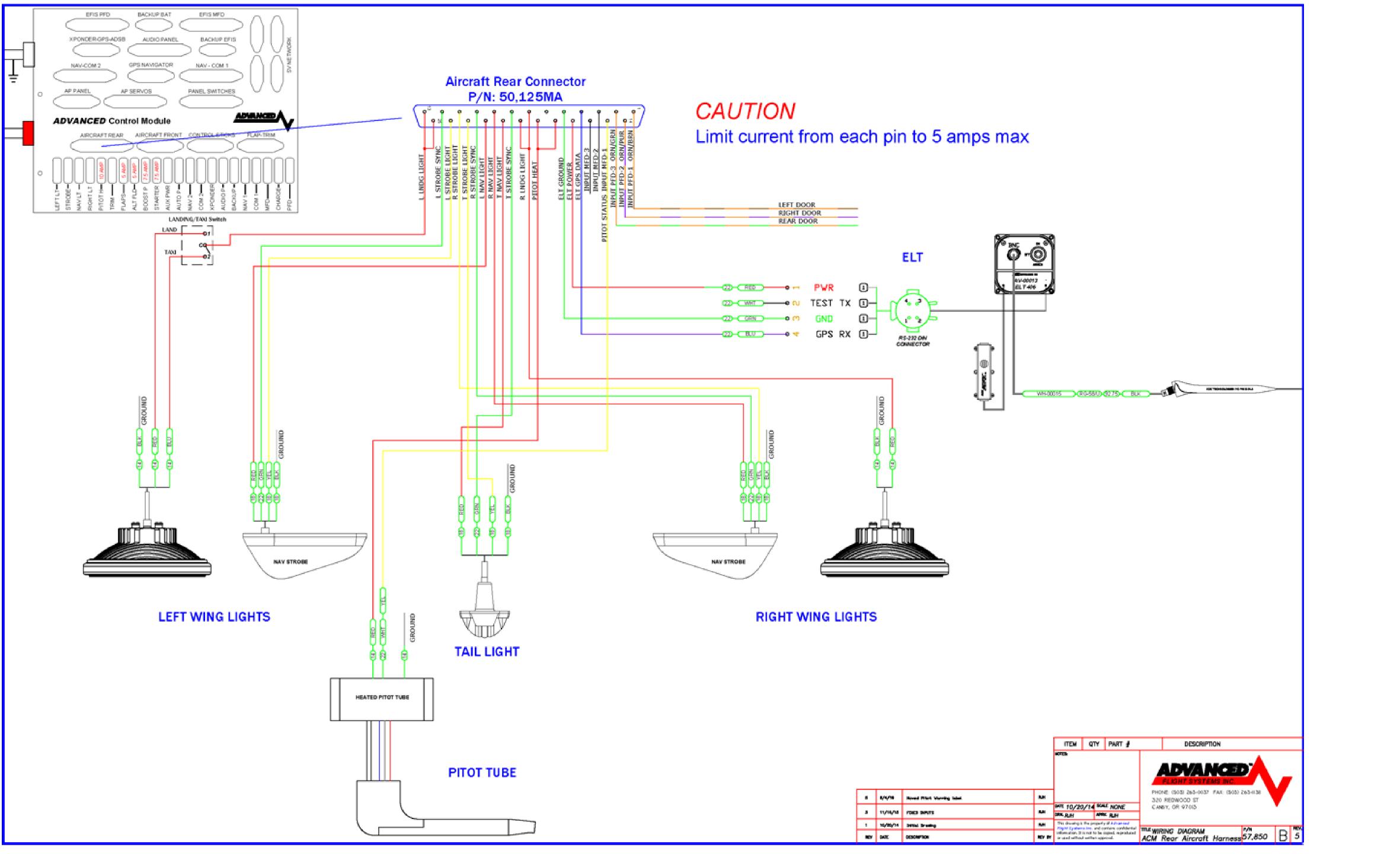


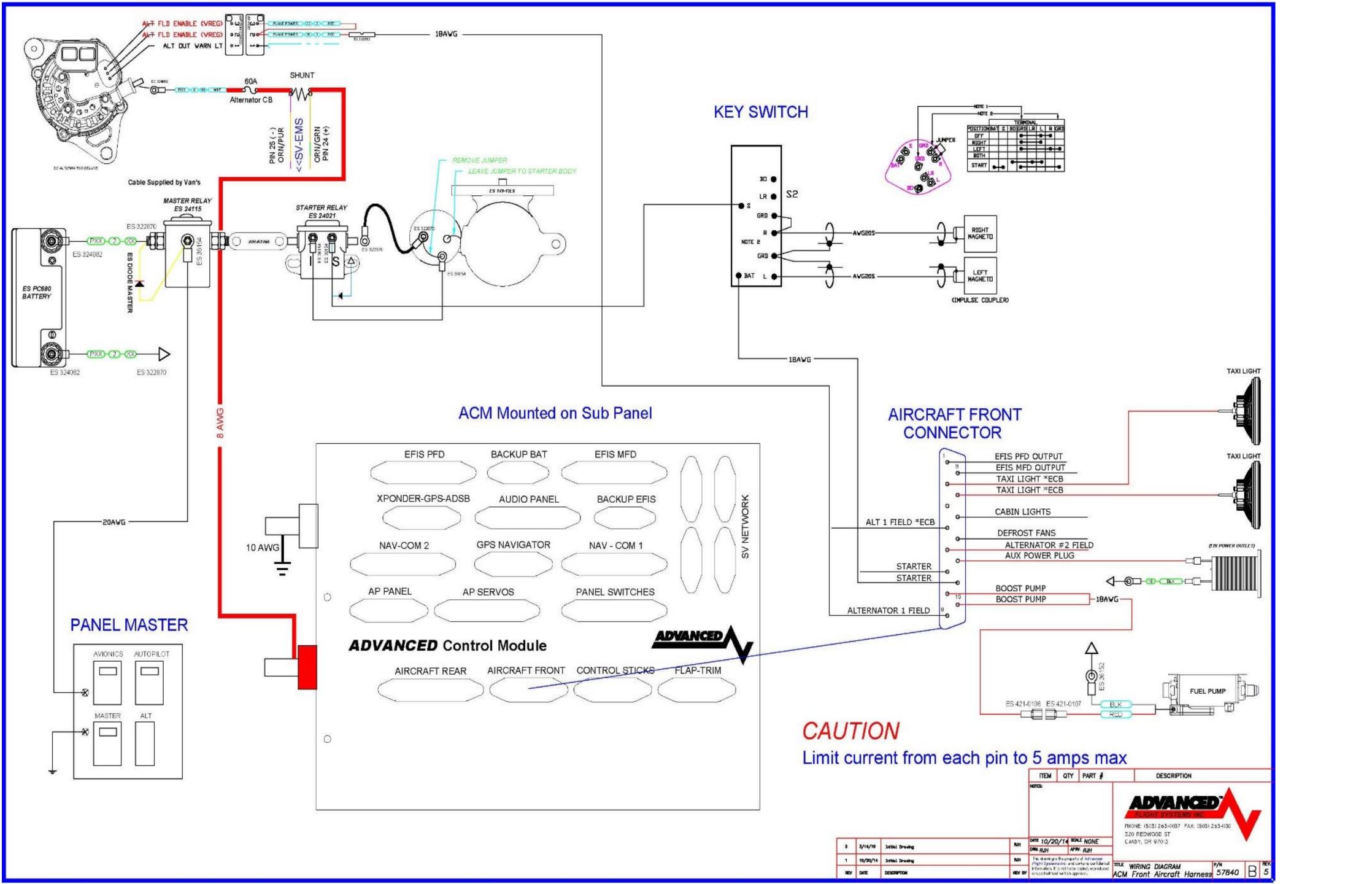
Operating Range of ACM Electronic Circuit Breakers

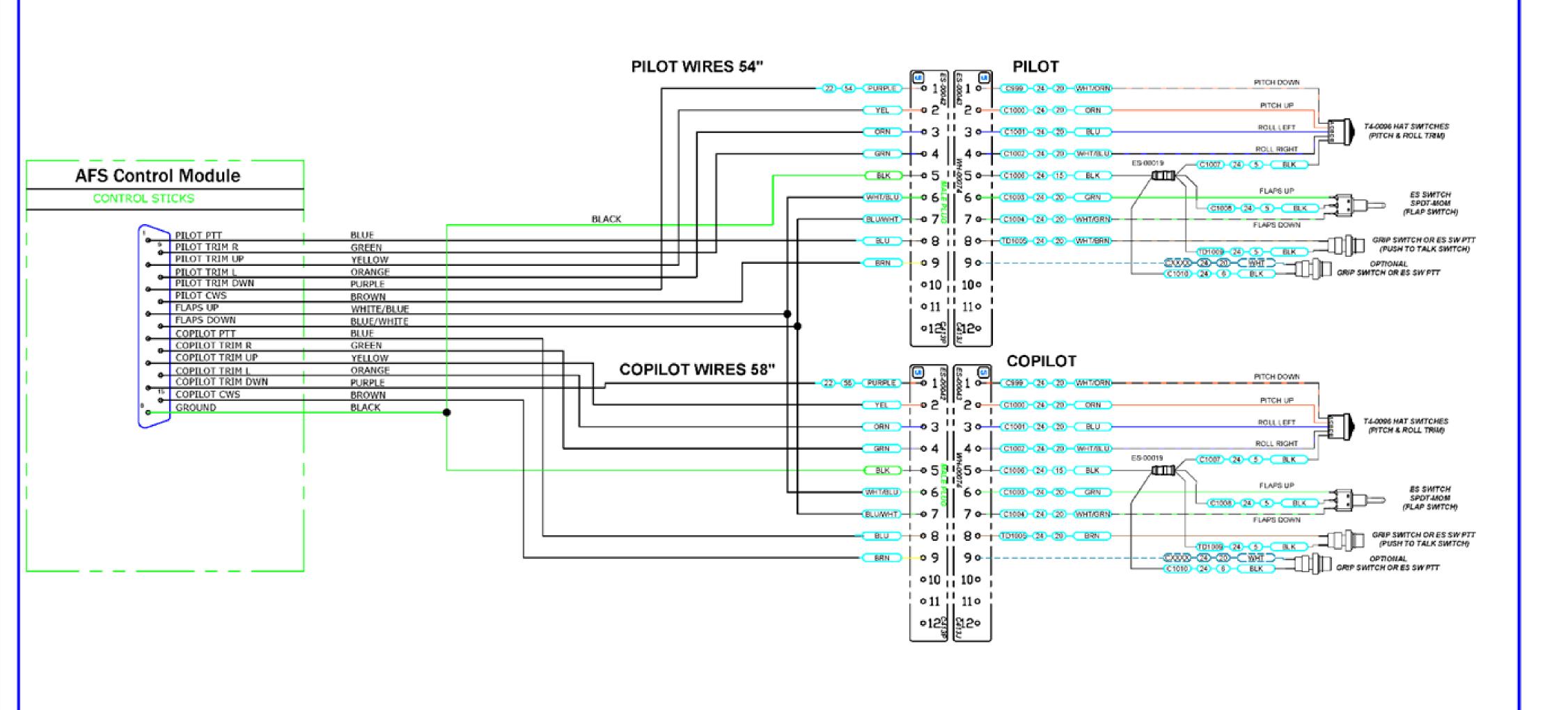


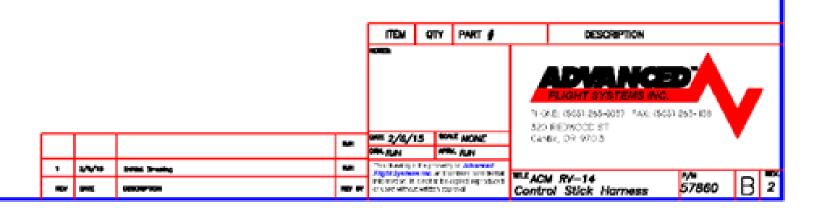


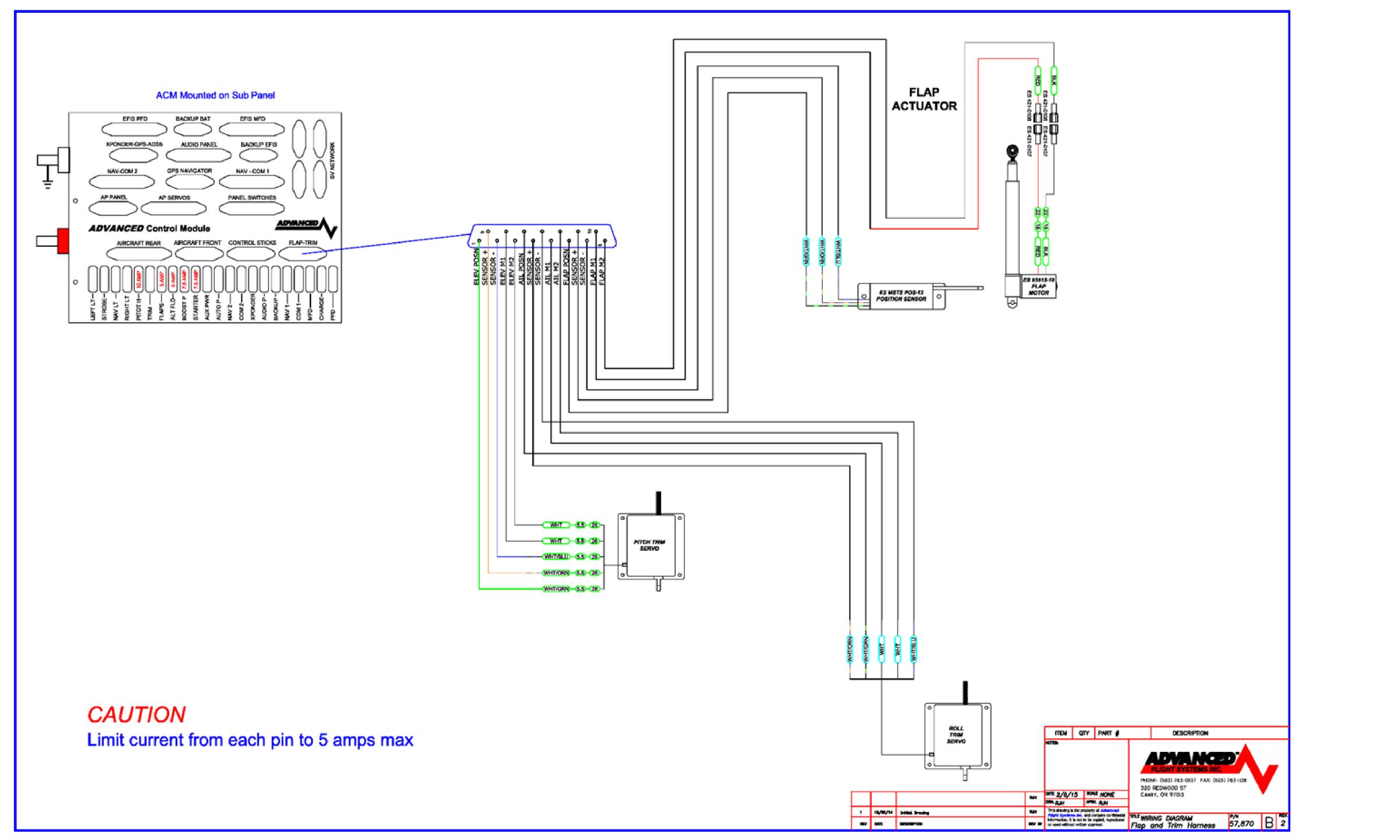












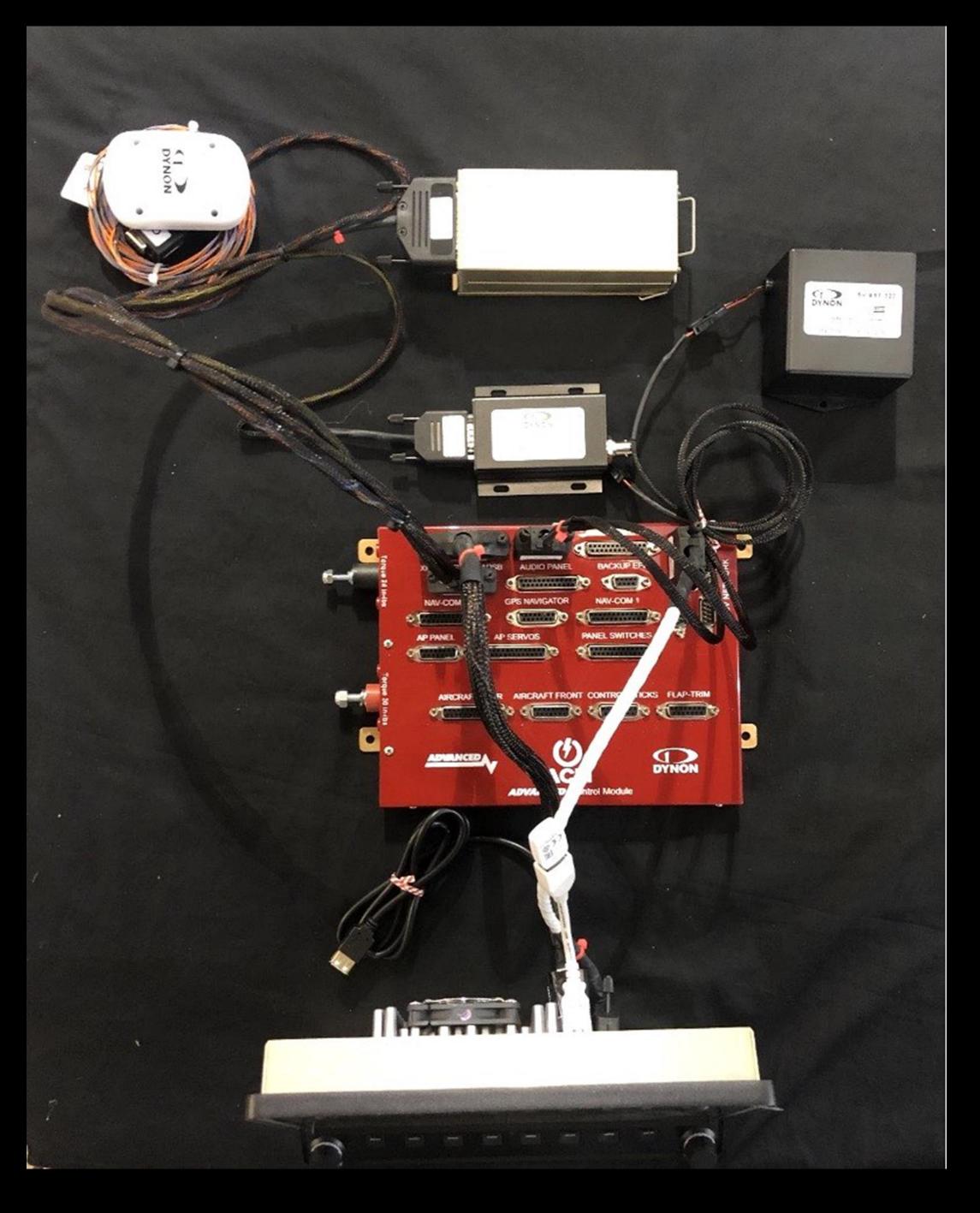
ACM JUMP START KIT



The Advanced Control Module "ACM" Jump Start Kit will provide you with a solid well-engineered foundation for your aircraft's electrical system and panel wiring.

Jump Start Kit includes:

<u>ltem</u>	Qty	Part Number	Description -
1	1	78000	Advanced Control Module with Electronic Circuit Breakers
2	1	57200-24	ACM to EFIS Main Harness 24"
3	1	57500	ACM to Transponder, ADS-b, GPS Harness
4	1	57265	ACM EFIS Dual Backup Battery Harness
5	1	AF-NET-2CC	SV-NET Cable for ACM to EFIS 24"



ADVANCEDPANEL Options

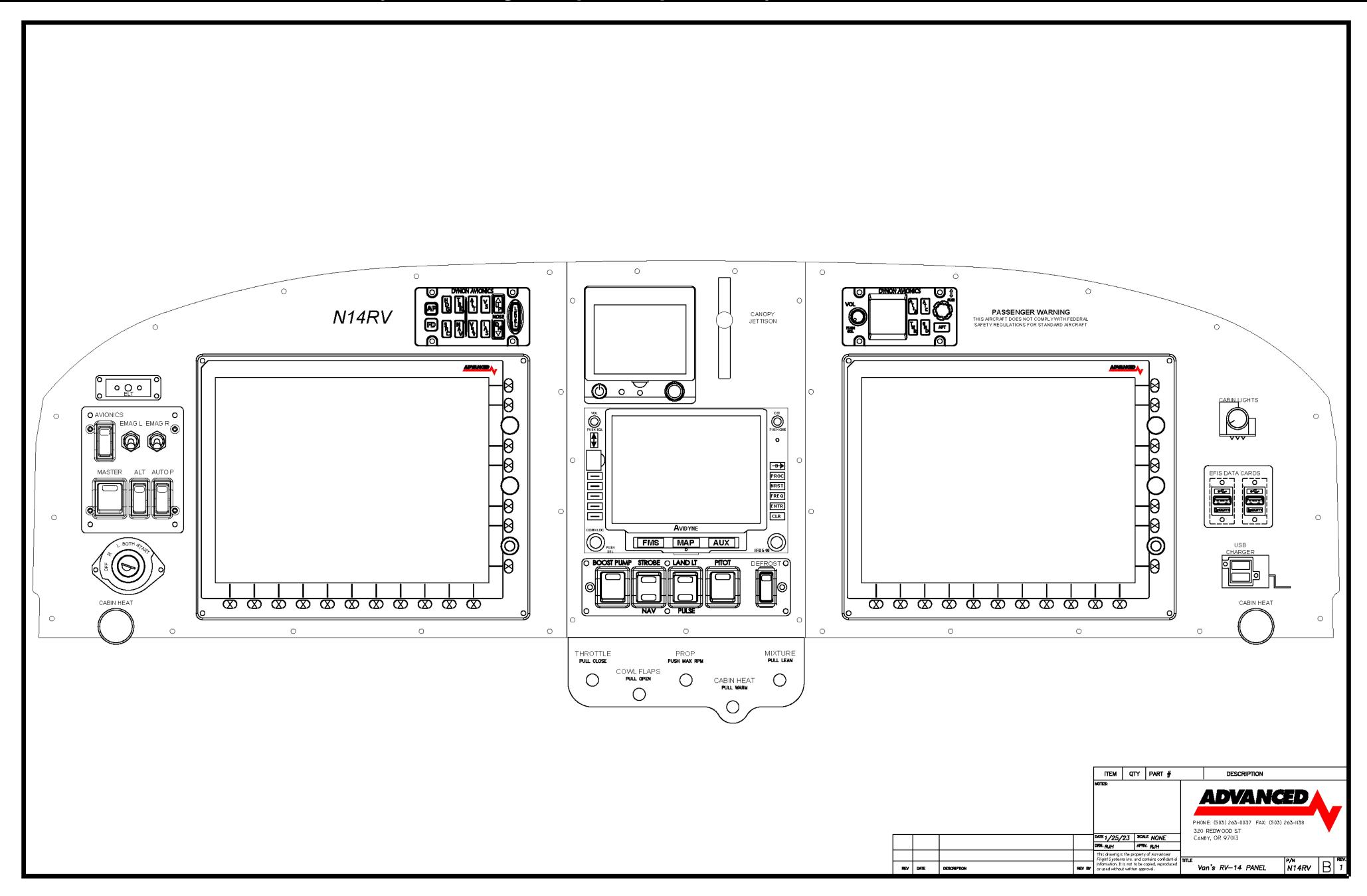














VFR

Single Com Radio Intercom EFIS GPS



1FR Light + \$4500

Single Com Radio
Intercom
EFIS GPS
Approach Certified GPS





IFR + \$12,500

Single Com Radio
Audio Panel
EFIS GPS
Second Com Radio
GPS Navigator (GPS+NAV)















Experimental Super Cub











S-16 45













































































RV-4



RV-6



Thank You!

www.advanced-flight-systems.com

www.dynon.com



