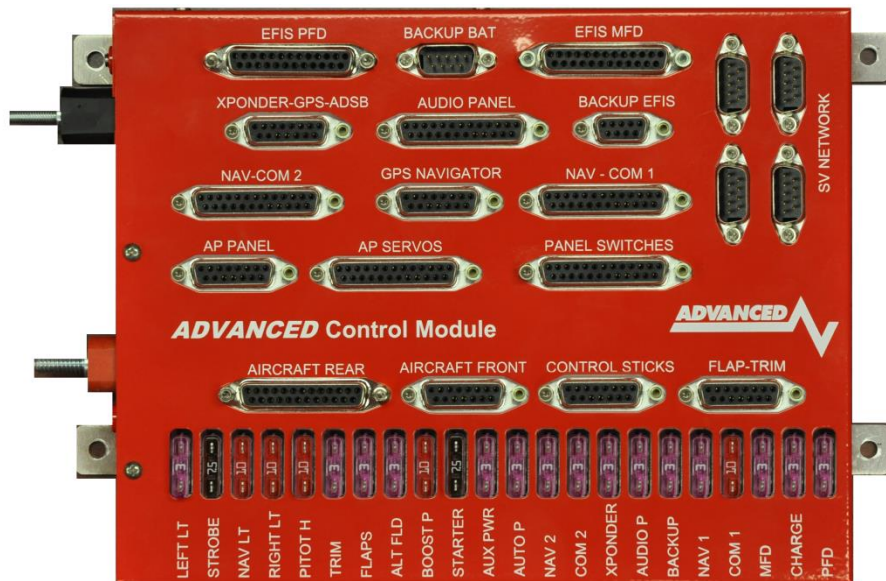


## ADVANCED Quick Panel Installation Manual



## LIMITED WARRANTY / AGREEMENT

Advanced Flight Systems Inc. ("AFS") warrants its aircraft monitoring system instrument and system components to be free from defects in materials and workmanship for a period of one year commencing on the date of the first flight of the instrument or one year after the invoice date, whichever comes first. AFS will repair or replace any instrument or system components under the terms of this Warranty provided the item is returned to AFS prepaid.

This Warranty shall not apply to any unit or component that has been repaired or altered by any person other than AFS, or that has been subjected to misuse, abuse, accident, incorrect wiring, or improper or unprofessional installation by any person. THIS WARRANTY DOES NOT COVER ANY REIMBURSEMENT FOR ANYONE'S TIME FOR INSTALLATION, REMOVAL, ASSEMBLY OR REPAIR. AFS reserves the right to determine the reason or cause for warranty repair.

1. This Warranty does not extend to any engine, machine, aircraft, boat, vehicle or any other device to which the AFS monitoring system may be connected, attached, or used with in any way.
2. THE REMEDIES AVAILABLE TO THE PURCHASER ARE LIMITED TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE OF THE PRODUCT, AT THE SOLE DISCRETION OF AFS. CONSEQUENTIAL DAMAGES, SUCH AS DAMAGE TO THE ENGINE OR AIRCRAFT, ARE NOT COVERED, AND ARE EXCLUDED. DAMAGES FOR PHYSICAL INJURY TO PERSON OR PROPERTY ARE NOT COVERED, AND ARE EXCLUDED.
3. AFS is not liable for expenses incurred by the customer or installer due to AFS updates, modifications, improvements, upgrades, changes, notices or alterations to the product.
4. The pilot must understand the operation of this product before flying the aircraft. Do not allow anyone to operate the aircraft that does not understand the operation of the monitoring system. Keep the operating manual in the aircraft at all times.
5. AFS is not responsible for shipping charges or damages incurred during shipment.
6. No one is authorized to assume any other or additional liability for AFS in connection with the sale of AFS products.
7. IF YOU DO NOT AGREE TO ACCEPT THE TERMS OF THIS WARRANTY, YOU MAY RETURN THE PRODUCT FOR A FULL REFUND. IF YOU DO NOT AGREE TO ACCEPT THE TERMS OF THIS WARRANTY, DO NOT INSTALL THE PRODUCT.
8. This warranty is made only to the original purchaser and is not transferable. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR OBLIGATIONS, EXPRESS OR IMPLIED, ORAL OR WRITTEN. AFS EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER AGREES THAT IN NO EVENT SHALL AFS BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES TO THE ENGINE OR AIRCRAFT, LOST PROFITS, LOSS OF USE, OR OTHER ECONOMIC LOSS. EXCEPT AS EXPRESSLY PROVIDED HEREIN, AFS DISCLAIMS ALL OTHER LIABILITY TO THE PURCHASER OR ANY OTHER PERSON IN CONNECTION WITH THE USE OR PERFORMANCE OF AFS' PRODUCTS, INCLUDING BUT NOT LIMITED TO STRICT PRODUCTS LIABILITY IN TORT.

### **IMPORTANT PRE-INSTALLATION NOTICE**

Before installing the monitoring system, READ THE LIMITED WARRANTY / AGREEMENT. There is information in the Limited Warranty / Agreement that may alter your decision to install this product. IF YOU DO NOT ACCEPT THE TERMS OF THE LIMITED WARRANTY / AGREEMENT DO NOT INSTALL THE PRODUCT. The product may be returned for a refund if you do not accept the terms of the Limited Warranty / Agreement.

Before starting the installation, make sure that your planned installation will not interfere with the operation of any controls. The installer should use current aircraft standards and practices to install this product. Refer to AC 43.13-2A, *Acceptable Methods, Techniques, and Practices - Aircraft Alterations* and AC 43.13-1B, *Acceptable Methods, Techniques, and Practices--Aircraft Inspection and Repair*.

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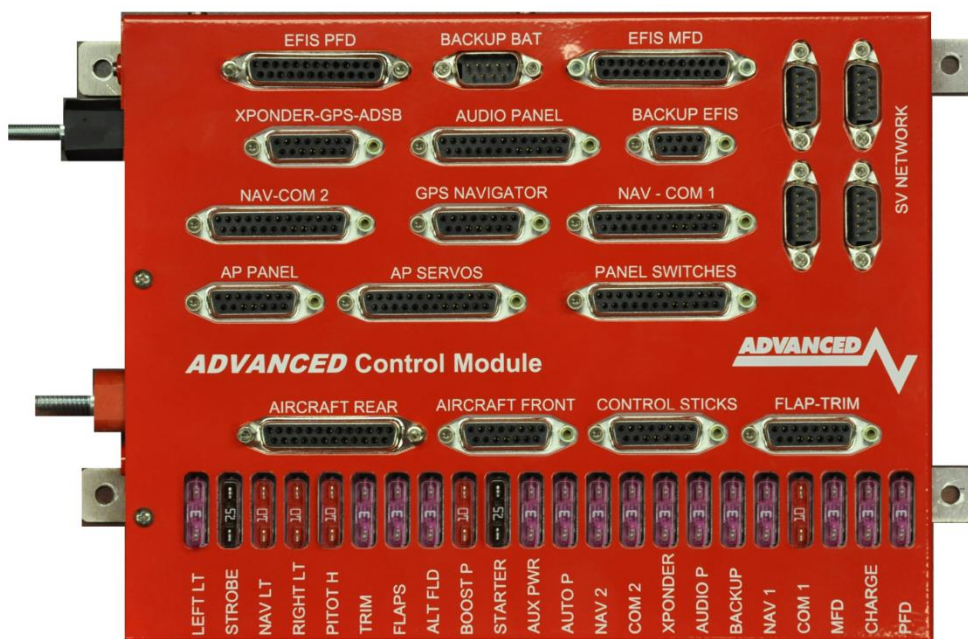
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## ADVANCED Control Module Mounting

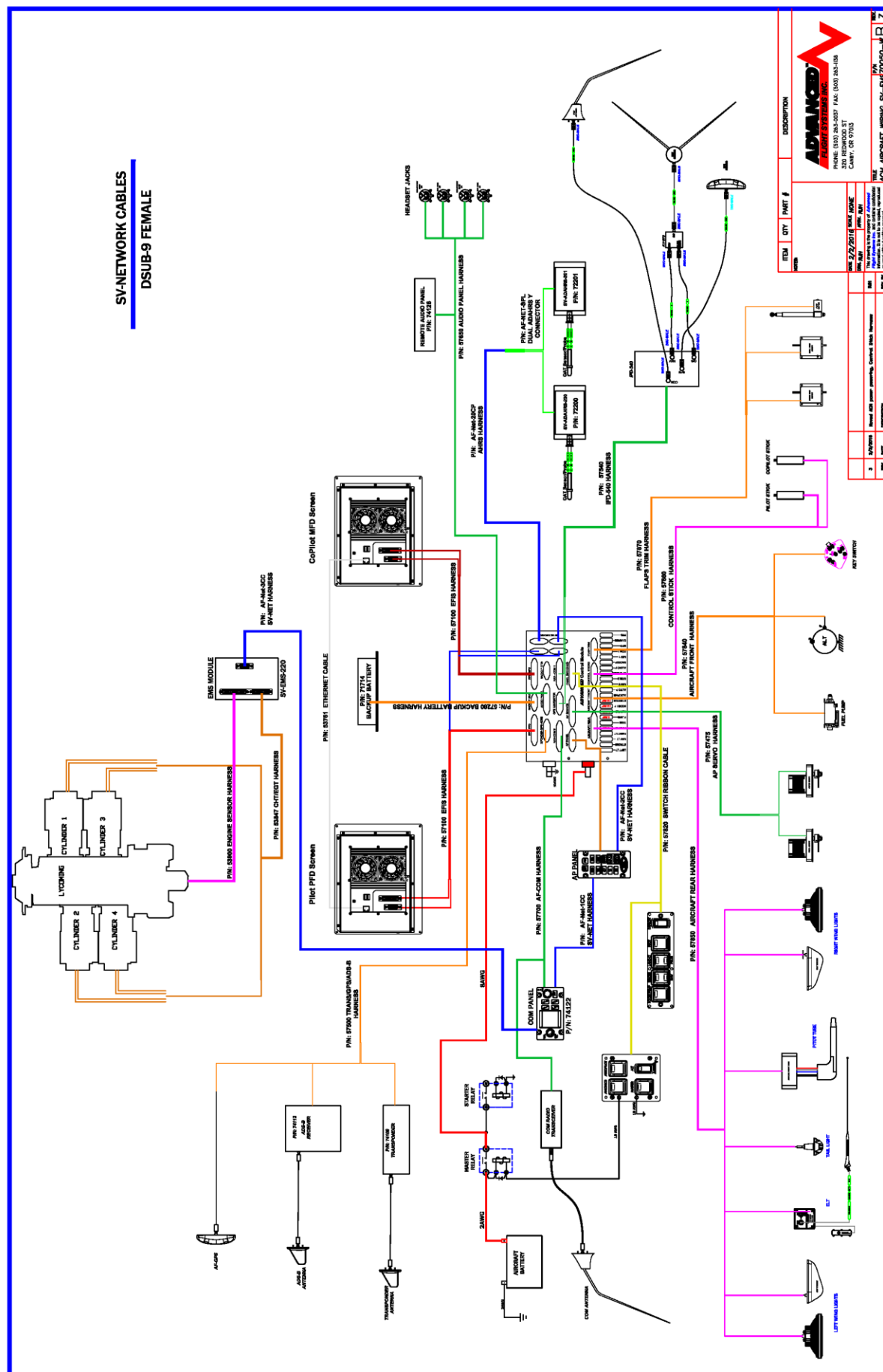


- Connect the #8 main power wire from the battery master relay to the red power lug on the ACM. The main power wire should have a 1/4" (0.250") ring terminal with a molded plastic cover.
- Connect the #10 airframe ground wire from the airframe ground to the black power lug on the ACM. The ACM main ground wire should have a #10 ring terminal with a molded plastic cover.

**Do not over-torque the power terminal nuts, they are soft copper and will break if over-torqued.**

**Red Main Power Terminal Nut Torque: 30 in-lbs**

**Black Main Ground Terminal Nut Torque: 24 in-lbs**



## Getting Started

The following is a general recommendation on the steps required to install the Advanced Quick Panel:

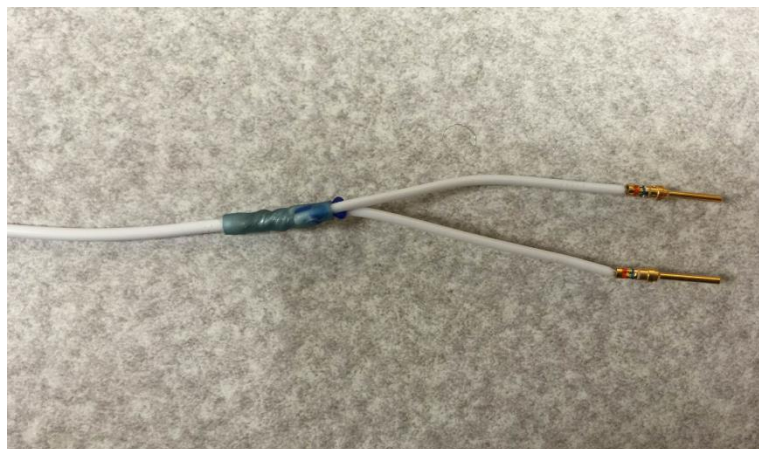
- Disconnect the Aircraft Battery
- Remove the old panel from the aircraft (if upgrading). Label each wire as you disconnect them from the old panel switches and components.
- Mark all remote component locations and drill mounting holes using the information from the Remote Component Mounting section of this manual or supplied layout drawings.
- Cut any required clearance holes in the sub-panel.
- Remove EFIS screens from the new Panel for sub panel access. You will need to press the release buttons on the side of the USB data connector to get the cable to release
- Test fit new panel and trim panel ribs for clearance if required.
- Mount the ACM module to the sub panel using 6-32 mounting screws, washers and lock nuts.
- Connect the Aircraft Master relay to the ACM Red power input post using size #8 Wire and the supplied 1/4"-20 nuts and washers.
- Connect the Aircraft Ground to the ACM Black ground post using size #10 Wire and the supplied 10-32 nuts and washers.
- Connect your existing aircraft Landing Lights, Nav Lights, Strobe Lights, Pitot Heat, and ELT to the supplied P/N: 57850 Aircraft Rear Harness ACM connector. You must limit the power on each D-Sub pin to less than 5 amps by using multiple pins at the connector. The recommended procedure is to use 18ga wire for each pin and then use a Solder Sleeve to connect the multiple wires to the larger gage wire going to the device.



SOLDER SLEEVE 1/4", Outside diameter: .050" - .200"

EDMO #: L-C-3  
MFR #: STS L-C-3

Termination jackets consist of a heat-shrinkable, transparent, polyvinylidene fluoride jacket with an inner, pre-fluxed, solder preform and two thermoplastic sealing inserts. When heat is applied, the solder melts and flows to provide a superior connection between the ground lead and the shield. At the same time, the two thermoplastic sealing inserts melt and the outer sleeve shrinks to provide an environmentally protected termination. This L-C series of solder jackets does not have a ground lead.



- Connect your existing aircraft Fuel Pump, Alternator, and Starter Switch to the supplied P/N: 57840 Aircraft Front Harness ACM connector.
- Connect your existing aircraft Control Stick switches to the supplied P/N: 57860 Aircraft Control Stick ACM connector.
- Connect your existing aircraft flap and trim motor wiring to the supplied P/N: 57870 Flap and Trim motor ACM connector.
- Mount the SV-200 and SV-201 ADAHRS units in the aircraft using the instructions from the AF-5000 manual.
- Mount the OAT sensor to the bottom of the wing. Wire the OAT sensor to the ADAHRS
- Plump Pitot, Static and AOA to the mounted ADAHRS
- Wire the ADAHRS to the spare SV Network DSUB-9 connector on the ACM module
- Wire the Autopilot servos to the ACM AP Servo connector
- Mount the remote components to the sub panel.
- Mount the AF-GPS module and connect to the ACM harness
- Connect aircraft Antennas to the remote radios (Transponder, Com, ADS-B in, ...)
- Install the Engine Sensors
- Connect the Engine Sensors to the EMS and CHT/EGT Harness. The Engine Harnesses should route to the Left PFD EFIS display in the panel. BE sure to leave service loop of cable to make installing the EFIS PFD easier.
- Mount the Panel using the supplied mounting screws.
- Connect the aircraft Master relay to the screw terminals on the back of the Master Switch PCB board.
- Verify that you have protection diodes installed in your master and starter relay.
- Wire Aircraft Magneto P-Leads to the Key Switch.
- Carefully connect and route all the supplied panel harnesses to the ACM module.
- Double check that all ACM harnesses are connected to the correct DSUB connector.
- Install the EFIS PFD connecting the EFIS Main Connector, EFIS AUX connector, Ethernet, and USB data port wire.
- Install the EFIS MFD and connectors
- Connect the Aircraft Battery, verify that it is charged
- Turn on the Autopilot Panel Power Switch (should always be on before EFIS power up)
- Turn on the Panel Master Switch and verify that the EFIS PFD powers up
- Turn on the Panel Avionics Switch and verify that the EFIS MFD and Radios power up.



## DSUB Pin Crimper Tools

Daniels Mil Spec Crimper AFM8  
Part Number: M22520/2-01



AFM8 Positioner for Standard D-Sub Connectors  
DMC Part Number: K13-1



Less expensive crimpers are available from a number of sources.  
Crimper, D-Sub, Closed Barrel Contacts, 4-Way Indent AWG 26-20



## EFIS Software Configuration (Must be done before first engine start and flight)

- Enter the EFIS instrument calibration menu by pressing the [SET] button followed by holding the [CAL] button on both EFIS screens.
- Scan for Network devices using the 2. SV-NETWORK Menu
- Press the Update Button in the SV-Network Menu if any devices indicate they need updating.
- Verify that both EFIS screens are getting ADAHRS and Engine Data.
- Calibrate Trim Positions
- Calibrate Flap Positions
- Calibrate Autopilot servos
- Test Autopilot servos
- Verify that the Engine parameters are correct on both EFIS screens. Configure the engine sensor types and range markings for your engine. (CHT – J type, EGT K-type, Oil Pressure, Fuel Pressure, ....\_
- Verify that all transponder settings are correct in both EFIS screens, including aircraft N Number
- Calibrate and verify the Fuel Tank sensors.
- Get a Pitot/Static and Transponder Test before the first flight.

## Quick Panel Post Installation Check

---



**CAUTION:** Do not fly the aircraft until the following check list has been completed.

**Never Power the system with an automotive battery charger and the aircraft battery disconnected.**

### Before Power is applied for the First Time

- Aircraft Master Relay is properly connected to the ACM Module **RED** Terminal
- Aircraft ground is properly connected to the ACM Module **BLACK** Terminal Verify relay protection diodes are installed on all large aircraft relays (Master, Starter, Avionics...etc)
- Pitot/Static and AOA plumbing is secured to the correct ports on the ADAHRS
- All Component Harnesses have been properly connected to the correct ports on the ACM module.

### Applying Power for the First Time

- The **BLACK** Autopilot switch controls power to the autopilot servos. The Autopilot switch should be ON before powering up the EFIS screens.
- The **RED** Master Switch controls power to the Pilot PFD EFIS screen.
- The **BLACK** Avionics switch controls power to the MFD EFIS and all radios

### First Engine Start

- With relay protection diodes installed, your EFIS screens can be turned on before the engine is started.
- After the engine has started, verify oil pressure and temperature. If none is indicated **SHUT DOWN** the engine. Verify all wiring and consult your local A&P, the engine manufacturer, and/or AFS technical support.
- Verify all engine indications are correct per your **engine manufacturers** manual.

### Before First Flight

- Verify you have the latest system software and mapping data (if applicable) - Visit the Dynon/AFS Website for latest software and map data
- Weight & Balance page updated with **your** aircrafts data
- Checklist pages updated with information from your **aircraft manufacturer**
- Magnetometer ADAHRS Alignment completed
- Pitot/Static check completed from an authorized FAA Repair Station.
- **Verify that both aircraft ignition system are properly wired and functioning**
- **Verify that Aircraft fuel system (Flow Meter, Pressure Transducer) is properly plumbed and not leaking.**
- **Perform a minimum fuel flow test and verify each tanks unusable fuel quantity.**



*Verify that the RPM, Oil Pressure, Fuel Pressure, Fuel Flow, Manifold Pressure, Oil Temperature, CHT and EGT temperatures are correct and reasonable during a high-power run-up. **Never take-off with high temperatures or abnormal readings.***

## ACM EFIS Serial Port Mapping

### Advanced IFR with GTN-650

Serial Port	EFIS PFD	NOTES	EFIS MFD	NOTES
0	ACM		NMEA 9600	D6 GPS Signal
1	PDA360R	Audio P	ELT/SL30	
2	Transponder		*CO	CO Detect Option
3	NONE		ADS-B	
4	AVTN/FADC1		AF-GPS	

### Advanced IFR with IFD540

Serial Port	EFIS PFD	NOTES	EFIS MFD	NOTES
0	70050 AFS ACM		NMEA/AVTN	D6 GPS Signal
1	74126 Audio Panel		ACK ELT/SL30	
2	74109 AFS XPNDR		*CO	CO Detect Option
3	GTR/GNC-2xx	IFD Tuning	74112 AFS-ADSB	
4	AVTN/RNAV		73102 AF-GPS	

### Skyview Serial Ports

Serial Port	EFIS PFD	NOTES	EFIS MFD	NOTES
1	ACM		ACM	
2	NMEA 9600		NMEA 9600	ELT Signal
3	TRANSPONDER		TRANSPONDER	
4	ADS-B		ADS-B	
5	GPS Puck		GPS Puck	

## IFR Panel ACM Fuse Sizes

LABEL	SIZE	DESCRIPTION
LEFT LT	10	Left Landing Light
STROBE	7.5	Strobe Lights
NAV LT	10	Nav Lights
RIGHT LT	10	Right Landing Light
PITOT H	10	Pitot Heat
TRIM	2	Trim Motors
FLAPS	5	Flap Motor
ALT FLD	5	Alternator Field Power
BOOST P	10	Boost Pump
STARTER	7.5	Starter contactor
AUX PWR	5	Auxiliary power plug
AUTO P	5	Autopilot Servos
NAV 2		Nav 2 Radio
COM 2	5	Com 2 Radio
XPONDER	3	Transponder and ADS-B Power
AUDIO P	3	Remote Audio Panel Power
BACKUP	3	Dynon D6 EFIS, ELT, CO Detector
NAV 1	7.5	Navigator NAV Power
COM 1	10	Navigator Com Power
MFD	5	Copilot EFIS Screen
CHARGE	10	TCW Battery, Charge and Pass through power
PFD	5	Pilot EFIS Screen



## VFR Panel Fuse Sizes

LABEL	SIZE	DESCRIPTION
LEFT LT	10	Left Landing Light
STROBE	7.5	Strobe Lights
NAV LT	10	Nav Lights
RIGHT LT	10	Right Landing Light
PITOT H	10	Pitot Heat
TRIM	2	Trim Motors
FLAPS	5	Flap Motor
ALT FLD	5	Alternator Field Power
BOOST P	10	Boost Pump
STARTER	7.5	Starter contactor
AUX PWR	5	Auxiliary power plug
AUTO P	5	Autopilot Servos
NAV 2	3	Nav 2 Radio
COM 2	5	Com 2 Radio
XPONDER	3	Transponder and ADS-B Power
AUDIO P	2	Intercom
BACKUP	3	Backup EFIS
NAV 1	3	Nav 1 Radio
COM 1	5	Com 1 Radio
MFD	5	Copilot EFIS Screen
CHARGE	10	TCW Battery, Charge and Pass through power
PFD	5	Pilot EFIS Screen

# Panel Configuration Checklist

(Completed by AFS before panel shipment)

N Number:\_\_\_\_\_ ICAO:\_\_\_\_\_ Customer:\_\_\_\_\_

Aircraft:\_\_\_\_\_ Tank Size:\_\_\_\_\_ INJ or Carb:\_\_\_\_\_

Verify Fuse or Circuit Breaker Sizes

1. Verify ELT Panel Battery (green sticker with date)
2. Configure EFIS ADMIN Settings

## IFR Settings

PFD

MFD

Serial Ports Functions

Serial Port Functions	
3. Port 0	AF-ACM
4. Port 1	PDA360EX
5. Port 2	AF-XPNDR-261
6. Port 3	DISABLED
7. Port 4	AVTN/ARNAV

Serial Port Functions	
3. Port 0	DISABLED
4. Port 1	ACK ELT
5. Port 2	DISABLED
6. Port 3	AF-ADSB-47x
7. Port 4	AF-GPS-250

Navigation Source Selection

Navigation Source Selection	
8. GPS/NAV 1 Data Source	SV-ARINC
9. GPS/NAV 2 Data Source	Remote GPS
10. GPS/NAV 3 Data Source	NONE

Navigation Source Selection	
8. GPS/NAV 1 Data Source	SV-ARINC
9. GPS/NAV 2 Data Source	Serial Port #4
10. GPS/NAV 3 Data Source	NONE

## VFR Settings

PFD

MFD

Serial Ports Functions

Serial Port Functions	
3. Port 0	AF-ACM
4. Port 1	DISABLED
5. Port 2	AF-XPNDR-261
6. Port 3	DISABLED
7. Port 4	DISABLED

Serial Port Functions	
3. Port 0	DISABLED
4. Port 1	ACK ELT
5. Port 2	DISABLED
6. Port 3	AF-ADSB-47x
7. Port 4	AF-GPS-2020

Navigation Source Selection

Navigation Source Selection	
8. GPS/NAV 1	Remote GPS
9. GPS/NAV 2	NONE
10. GPS/NAV 3	NONE

Navigation Source Selection	
8. GPS/NAV 1	Serial Port #4
9. GPS/NAV 2	NONE
10. GPS/NAV 3	NONE

a. Configure EMS, Airdata, AOA, ADAHRS Settings

Module Configuration		Module Configuration	
11. Engine Module Config	HW:AF-SV, NET:OFF	11. Engine Module Config	HW:AF-SV, NET:OFF
12. Air Module Config	HW:AF-SV, NET:OFF	12. Air Module Config	HW:AF-SV, NET:OFF
13. AOA Module Config	HW:AF-SV, NET:OFF	13. AOA Module Config	HW:AF-SV, NET:OFF
14. AHRS Module Config	HW:AF-SV, NET:OFF	14. AHRS Module Config	HW:AF-SV, NET:OFF

b. Display Assignments

Display Assignments		Display Assignments	
17. This Display	PRIMARY (175)	17. This Display	BACKUP (176)
18. Remote Source	BACKUP (176)	18. Remote Source	PRIMARY (175)

3. SV Network Configuration

Verify all green with the following 7 devices:

ACM, AF-5000,AF-5000, ADAHRS-200,ADAHRS-201 , AF-COM,SV-AP

4. Verify Altitude, Airspeed, AOA working on ADAHRS-200 and ADAHRS-201

5. Verify Primary and Backup Volts settings

6. Verify ADAHRS OAT (use test OAT Sensor)

7. Configure Aircraft Info

8. Verify RPM set to 2 Pulses for 4 Cylinder and 3 Pulses for 6 Cylinder

Instrument Calibration		Configure RPM	
1. Max	3000		
2. Red High At	2800		
3. Yellow High At	2700		
4. Yellow Mid-Band Top	2100		
5. Yellow Mid-Band Bottom	2100		
6. Audio On/Off	OFF		
7. Instrument On/Off	ON		
8. Pulses Per 2 Revolutions	3		

9. Verify Manifold Sensor Configuration

Instrument Calibration		Configure Manifold Pressure	
1. Max (Top of Gauge)	35.0		
2. Red High At	32.0		
3. Yellow High At	31.0		
4. Yellow Low At	0.0		
5. Red Low At	0.0		
6. Min (Bottom of Gauge)	0.0		
7. Audio OFF/ON/etc	OFF		
8. Instrument OFF/ON	ON		
9. Display Units	INHG		
10. Shift Adjust	0.0		
11. Sensor Type	AD VAL: 3909 MANIFOLD 45 TURBO (AFS 41401)		
12. Pin Select	C37_P26		

# 10. Verify Fuel Flow Settings

Instrument Calibration		Configure Fuel Flow	
1. Max (Top of Gauge)		30.0	
2. Red High At		26.0	
3. Yellow High At		24.0	
4. Yellow Low At		0.0	
5. Red Low At		0.0	
6. Min (Bottom of Gauge)		0.0	
7. Audio OFF/ON/etc		OFF	
8. Instrument OFF/ON		ON	
9. Fuel Units		GALLONS	
10. Sensor Type		FLOW SENSOR	
11. K Factor		650	

# 11. Verify Fuel Computer settings

## 12. Configure Fuel Pressure Sensor and Ranges

Sensor	Carburated	Injected
	41201 (0-15PSI)	41301 (0-50PSI)
Max	15	40
Red High	10	35
Yellow High	8	30
Yellow Low	3	15
Red Low	2	12
Min	0	0

Instrument Calibration		Configure Fuel Pressure	
1. Max (Top of Gauge)		45.0	
2. Red High At		40.0	
3. Yellow High At		35.0	
4. Yellow Low At		15.0	
5. Red Low At		12.0	
6. Min (Bottom of Gauge)		0.0	
7. Audio OFF/ON/etc		ON	
8. Instrument OFF/ON		ON	
9. Display Units		PSI	
10. Shift Adjust		0.0	
11. Sensor Type		AD_VAL: 0482	
		KAVLICO 50PSI FLUID PRESS (101716-000)	
12. Pin Select		C37_P8	

# 13. Amperage Shunt PRIMARY

# 14. Amperage Hall OFF

# 15. Configure Oil Pressure 41101 (0-150) Kavlico

Instrument Calibration		Configure Oil Pressure	
1. Max (Top of Gauge)		115.0	
2. Red High At		105.0	
3. Yellow High At		95.0	
4. Yellow Low At		40.0	
5. Red Low At		25.0	
6. Min (Bottom of Gauge)		0.0	
7. Audio OFF/ON/etc		ON	
8. Instrument OFF/ON		ON	
9. Display Units		PSI	
10. Shift Adjust		0.0	
11. Sensor Type	AD_VAL: 0444		
		KAVLICO 150PSI FLUID PRESS (101693-000)	
12. Pin Select		C37_P6	

# 16. Configure Oil Temp 40405 VDO

Instrument Calibration		Configure Oil Temperature	
1. Max (Top of Gauge)		250.0	
2. Red High At		235.0	
3. Yellow High At		220.0	
4. Yellow Low At		140.0	
5. Red Low At		40.0	
6. Min (Bottom of Gauge)		70.0	
7. Audio OFF/ON/etc		ON	
8. Instrument OFF/ON		ON	
9. Display Units		FAHRENHEIT	
10. Shift Adjust		0.0	
11. Sensor Type	AD_VAL: 2088		
		1/8"-27 NPT FLUID TEMP (100409-001)	
12. Pin Select		C37_P7	

17. Verify that CHT Sensor type is J

18. Verify that EGT Sensor Type is K

19. Configure HP Engine Type and Horse Power

Instrument Calibration		Configure Horsepower	
1. Rated Horsepower		195	
2. Engine Manufacturer		LYCOMING	
3. Instrument OFF/ON		ON	

20. Configure Carb Temp Carb = ON INJ = OFF

## 21. Configure Tank 1 and Tank 2

Instrument Calibration		Configure Fuel Tank 1
1. Tank Size	15.0	
2. Yellow Low At	4.0	
3. Red Low At	2.0	
4. Audio OFF/ON/etc	ON	
5. Instrument OFF/ON	ON	
6. Fuel Units	GALLONS	
7. Sensor Type	AD_VAL: 2255 FUEL LEVEL (RESISTIVE)	
8. Pin Select	C37_P20	

Instrument Calibration		Configure Fuel Tank 2
1. Tank Size	15.0	
2. Yellow Low At	4.0	
3. Red Low At	2.0	
4. Audio OFF/ON/etc	ON	
5. Instrument OFF/ON	ON	
6. Fuel Units	GALLONS	
7. Sensor Type	AD_VAL: 2257 FUEL LEVEL (RESISTIVE)	
8. Pin Select	C37_P21	

## 22. Set Tank 3 and Tank 4 to Zero Gallons and OFF

## 23. Configure Elevator Trim to ACM

Instrument Calibration		Configure Elevator Trim
1. Enable/Disable	ALWAYS ON	
2. Position Source	ACM/VPX	
<b>Position Calibration</b>		
3. FULL UP	5	
4. CENTER	175	
5. FULL DOWN	255	
<b>Trim Motor</b>		
6. Auto Trim Enable/Disable	ENABLED	
7. Auto Trim Motor Polarity	STANDARD	
8. Auto Trim Motor Test	COMPLETE	
9. Rapid Travel Motor Speed (%)	100	
10. Rapid Travel Below IAS (KTS)	50	
11. Slow Travel Motor Speed (%)	60	
12. Slow Travel Above IAS (KTS)	125	

## 24. Configure Aileron Trim to ACM

## 25. Configure Flaps

Position Source    ACM  
 Operation Mode    Momentary  
 End Point Slop Timeout 3

## 26. Configure SVN Menu



## 27. Electrical Configuration

Instrument Calibration	Electrical Configuration
1. Enable/Type	ADV CTRL MOD
2. Audio ON/OFF	OFF

Panel Settings

## 28. Landing Gear Configuration

Gear Down Input NONE

## 29. Configure Transponder Settings

N Number

MODE S Code

GPS Input Type (AFS Direct for no Navigator; TRIG ADS-B for IFD)

GPS Certification (Uncertified for AF-GPS; Level C for IFD)

Enable TIS

ADS-B input Frequency 1090 & UAT

## 30. Com Radio Setup

Primary S/N (from SV-NET Scan)

Radio Type SV-COM

Squelch 70

Side Tone 25

Mic Gain 50

## 31. NAV Radio Configuration DISABLED

## 32. Configure Audio Panel (IFR)

## 33. Configure Inputs (1-3)

### RV-14 Input Configuration

Instrument Calibration	Configure Inputs
BACK	
<b>INPUT 1</b>	
1. Label	CANOPY
2. Usage	CANOPY
3. Logic	Norm Closed
4. Timeout (mm:ss)	0:00
5. Audio OFF/ON/etc	ABOVE 1500 RPM
<b>LOCAL STATUS</b>	
EFIS 1	1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
<b>REMOTE STATUS</b>	
EFIS 2	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
<b>INPUT 2</b>	
6. Label	PITOT
7. Usage	GENERIC
8. Logic	Norm Open
9. Timeout (mm:ss)	0:00
10. Audio OFF/ON/etc	OFF
<b>INPUT 3</b>	
11. Label	STALL
12. Usage	GENERIC
13. Logic	Norm Open
14. Timeout (mm:ss)	0:00
15. Audio OFF/ON/etc	ON
SAVE SEL	
PREV NEXT SEL	

## 34. Configure Test Audio to 75

## 35. Configure IFR Navigator (see IFD or GTN section)

## EFIS (PFD and MFD) Tests

- ADAHRS 1 and 2 working
- Verify all buttons
- Verify Knobs
- Verify Joystick
- Set SD card
- Test Dimmer
- Verify Ethernet (EMS and Bugs work on both screens)
- Test AP Panel FD Button
- Verify Map Database is current and High Res Terrain from USB sticks
- Verify ADAHRS cross check is working
- Verify Bugs are turned ON (Heading, ALT, Speed)
- Verify Backup Battery (Shutdown and Button 1 Power Up)

## RADIO and Audio Panel Tests

- Pilot PTT – Radio TX is displayed on the AF-COM Panel and radio transmits.
- Copilot PTT – Radio TX is displayed on the AF-COM Panel and radio transmits.
- Radio receives from handheld
- Intercom works between headsets, verify squelch and volume work.
- Music input works
- EFIS PFD sets and displays radio freq
- EFIS MFD sets and displays radio freq.
- Radio displays airport data from EFIS
- EFIS audio works, test using EFIS timer
- EFIS PFD and MFD screens can flip-flop radio

## Trim Servo Tests

- Trim and Flap motors work from control sticks
- Flap motor works from panel flap switch
- Trim and Flap positions change on EFIS PFD and MFD.
- Program and test flap positions

## Panel Dimming

- Panel buttons dim with EFIS screens
- AP Panel Module buttons dim with EFIS screens
- Radio dims with EFIS screens

## Aircraft Lights

- Left Landing light turns on
- Right Landing light turns on
- Landing lights flash in Pulse Mode
- Nav lights turn on
- Strobe lights turn on

## Auto Pilot Tests

- AF-SV Scan for Servos
- Set Travel Limits
- Motors turn ON and OFF

## ELT Tests

- Test GPS Signal to ELT using scope on pin 4.

## D6 EFIS Tests

- Compass Wiring?
- D6 Receiving GPS data?

## Pitot Tube Tests

- Pitot Status line

## +12V Power Plug

- Verify Power

## Backup EFIS PFD and MFD to Customer Panel Folder

## Verify Switch Modules

Switch Color  
Mounting Screw  
Master Relay Screws  
All Lences intact

## Panel Shipping Checklist

## Take Photo of completed running panel

### **Verify All Components have screws and are tight**

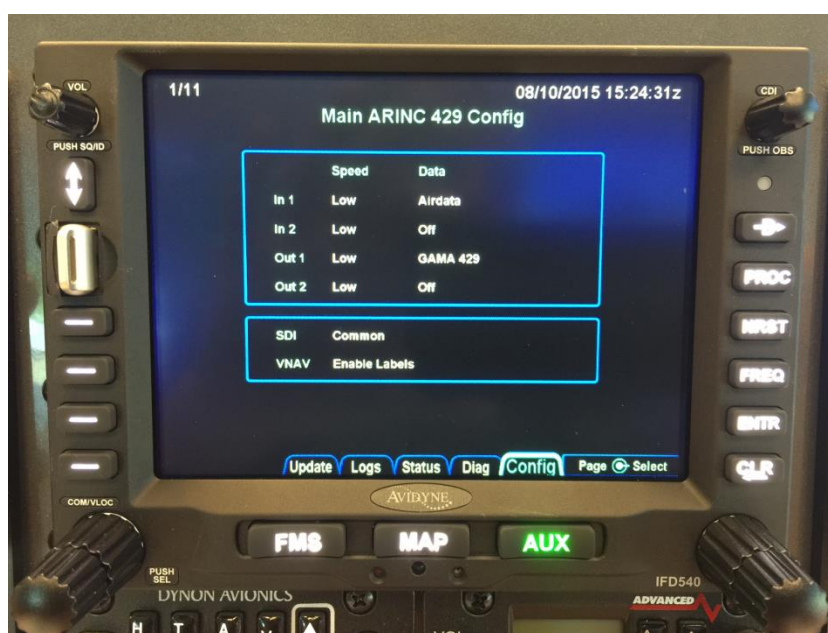
- 1 Verify all Cables have a Description and Part Number Label
- 2 Check EFIS Seral Number Labels
- 3 Use BOM to check off every item going into the box and serial number
- 4 Take photo of components in box
- 5 Verify Panel Mounting Hardware included.
- 6 Check Starter Switch Key and Terminal screws

## IFD-540/440 Configuration



To enter configuration mode you will need to power up the IFD with a USB memory stick.

## ARINC configuration



## Serial Port Configuration

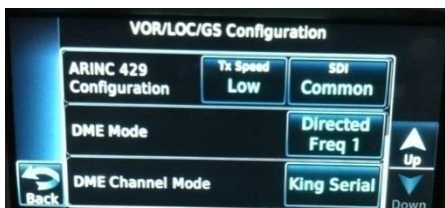


## VOR / LOC / GS ARINC 429 Configuration





## GTN-650 Configuration



## RADIO and INTERCOM Tests

- ADVANCED-SV SCAN for Radio SN
- Configure COM Radio Setup on EFIS using Radio S/N from SCAN

Instrument Calibration		COM Radio Setup	
1. Enable/Disable		ENABLED	
2. Radio Type		SV-COM-PANEL	
3. Squelch Level (%)		60	
4. Sidetone Level (%)		25	
5. Mic Gain		50	
6. Primary SN		107	

- Pilot PTT – Intercom LED turns yellow, radio TX is displayed on the AF-COM Panel and radio transmits.
- Copilot PTT – Intercom LED turns yellow, radio TX is displayed on the AF-COM Panel and radio transmits.
- Radio receives from handheld
- Intercom works between headsets, verify squelch and volume work.
- Music input works
- EFIS PFD sets and displays radio freq
- EFIS MFD sets and displays radio freq.
- Radio displays airport data from EFIS
- EFIS audio works, test using EFIS timer
- EFIS PFD and MFD screens can flip-flop radio

## Trim Servo Tests

- Trim and Flap motors work from control sticks
- Flap motor works from panel flap switch
- Trim and Flap positions change on EFIS PFD and MFD.
- Program and test flap positions

## Panel Dimming

- Panel buttons dim with EFIS screens
- AP Panel Module buttons dim with EFIS screens
- Radio dims with EFIS screens

## Aircraft Lights

- Left Landing light turns on
- Right Landing light turns on
- Landing lights flash in Pulse Mode
- Nav lights turn on
- Strobe lights turn on

### **Auto Pilot Tests**

- AF-SV Scan for Servos
- Set Travel Limits
- Motors turn ON and OFF

### **ELT Tests**

- Install Battery in ELT Remote on Panel
- Install Battery in ELT buzzer
- Configure MFD Serial Port #1 to ACK ELT
- Test GPS Signal to ELT using scope on pin 4.

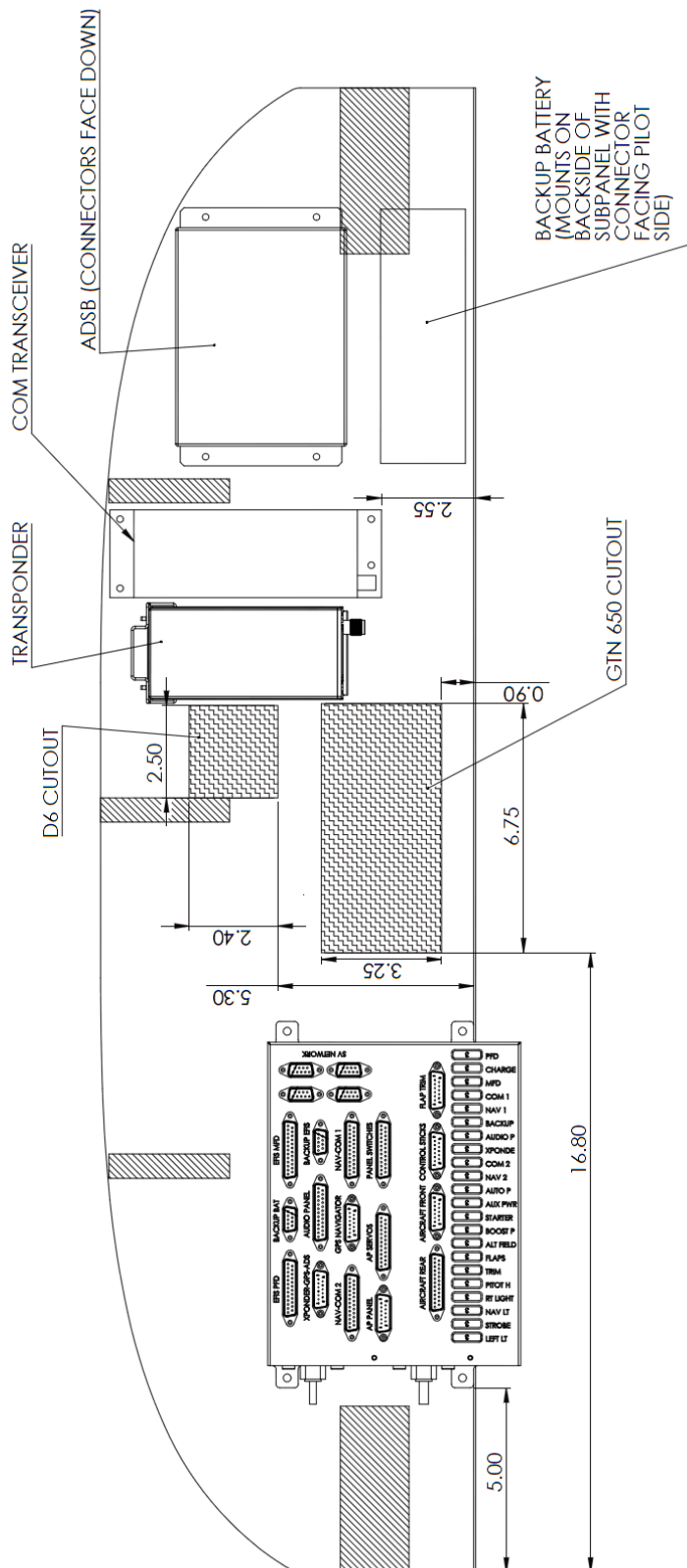
### **Pitot Tube Tests**

- Pitot Status line

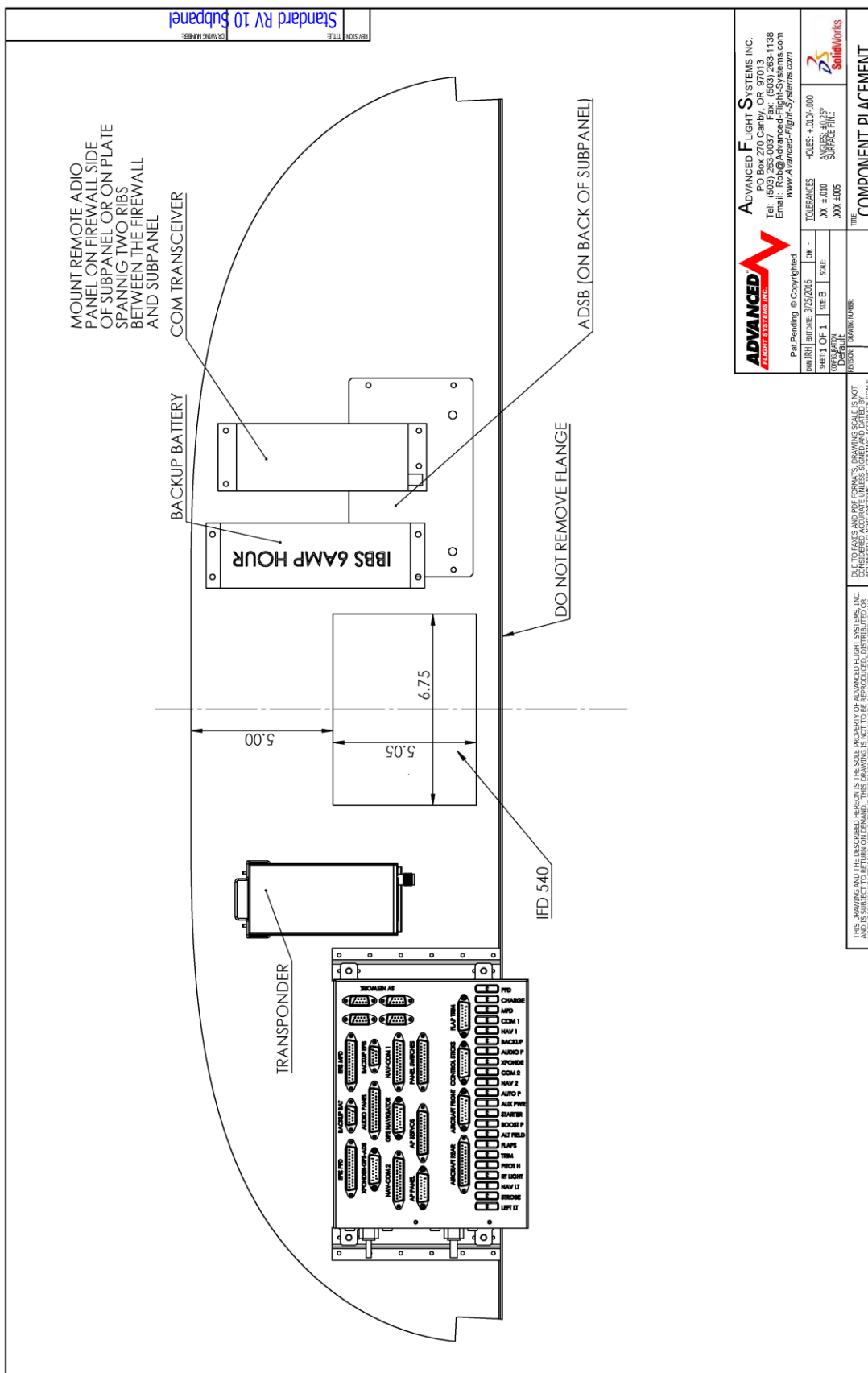
# Remote Component Mounting

## RV-7 Slider Panel

AUDIO PANEL CAN BE MOUNTED ON THE BACK OF THE SUBPANEL USING THE SUPPLIED FLANGES OR BETWEEN THE FIREWALL AND SUBPANEL ON A PLATE SPANNING THE CENTER AND COPILOT SIDE RIBS.

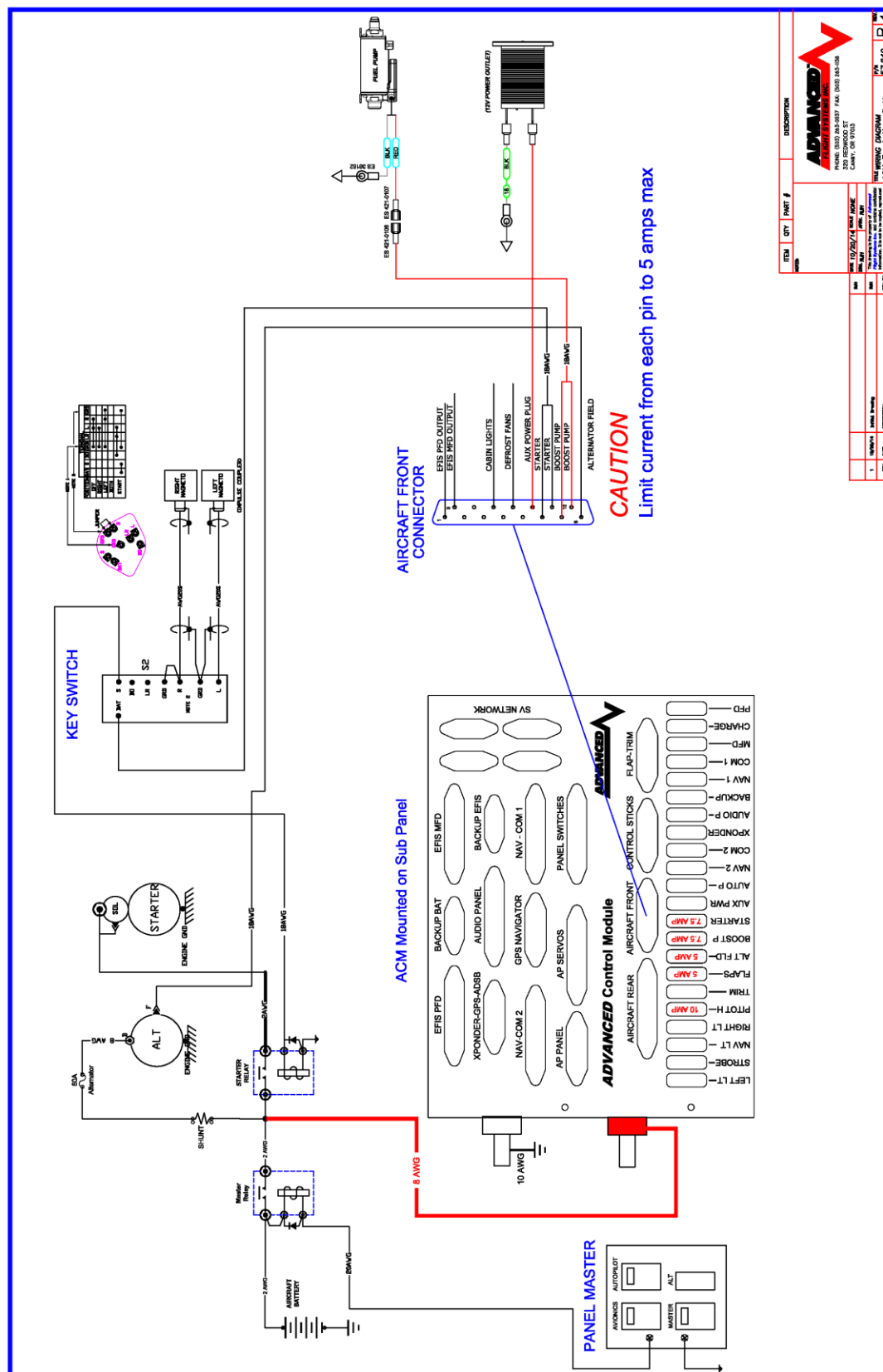


## RV-10 Standard Panel



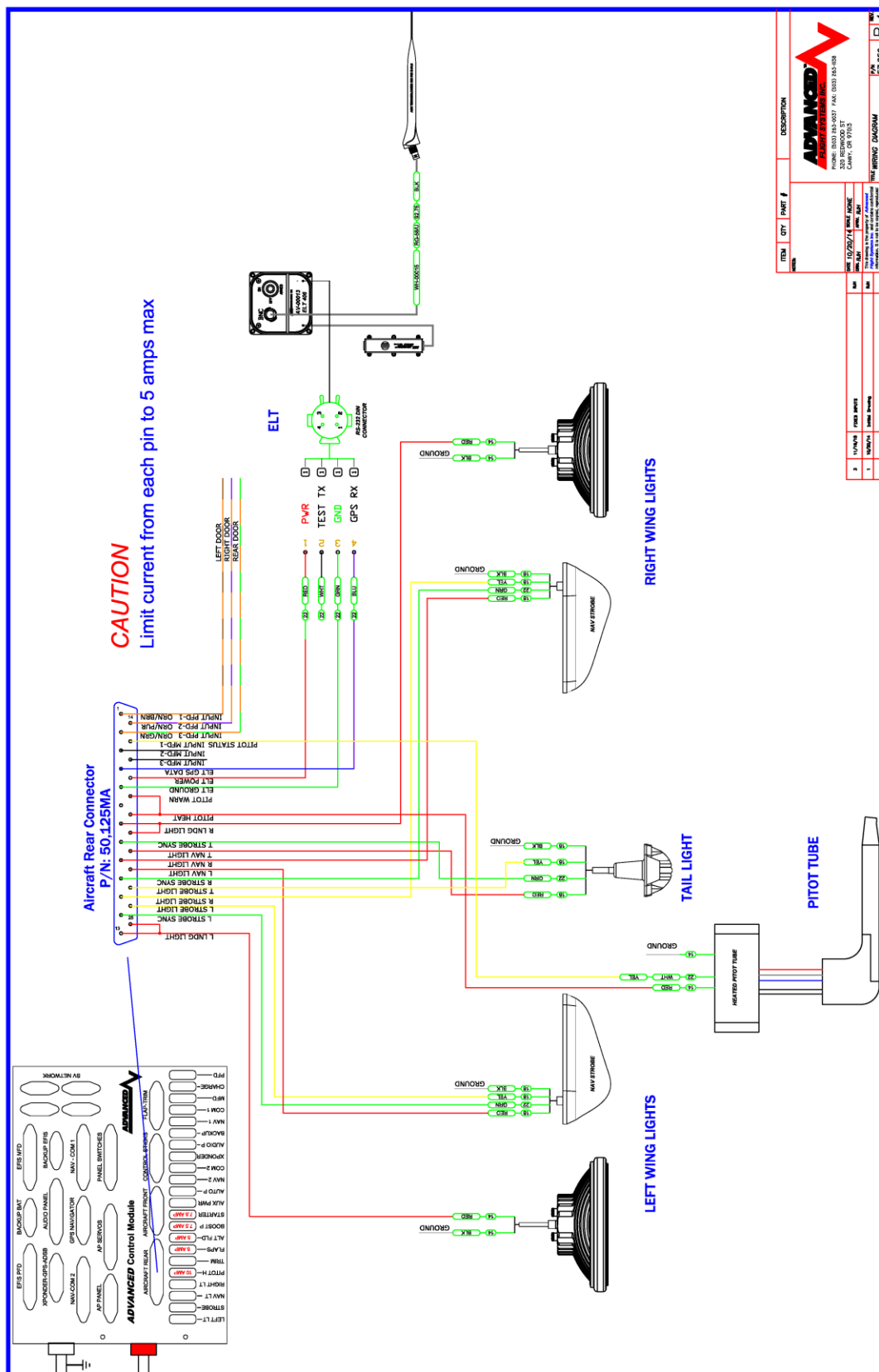
## 57840 Aircraft Front Harness

Use the supplied DSUB 15 Pin male connector assembly P/N: 50115MA and schematic to wire the aircraft front connector. Verify wire sizes from this drawing.



# 57850 AIRCRAFT REAR HARNESS

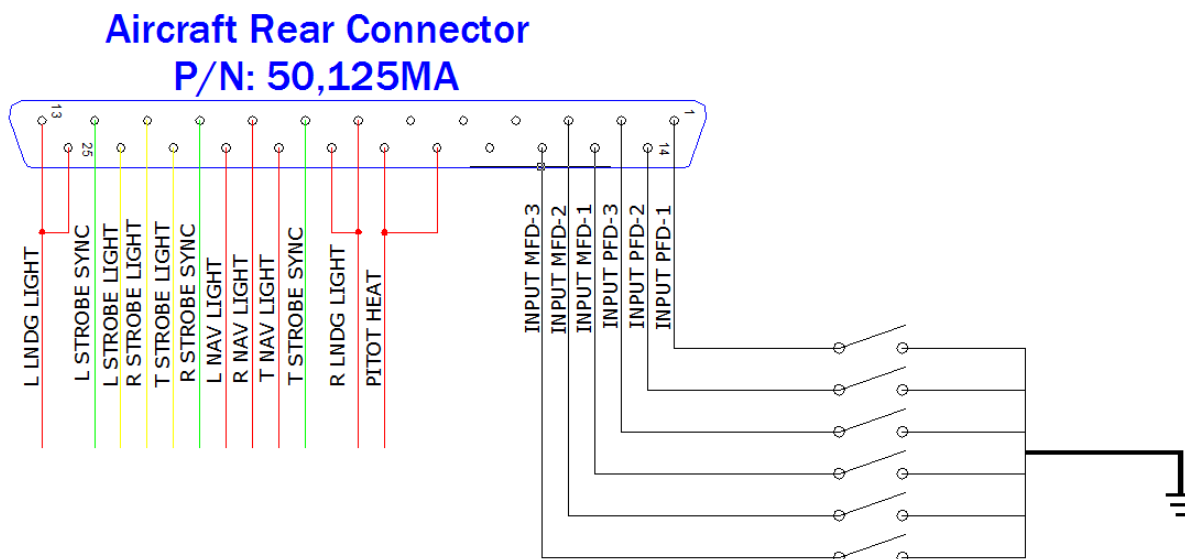
Use the supplied DSUB 25 Pin male connector assembly P/N: 50125MA and schematic to wire the aircraft front connector. Verify wire sizes from this drawing.





## EFIS Inputs

The PFD and MFD EFIS screen digital inputs (1,2,3) are wired to the ACM Aircraft Rear Connector and configured in the EFIS calibration menu. The EFIS inputs are designed to activate when connected to ground.



Instrument Calibration
Configure Inputs
BACK

**INPUT 1**

1. Label: CANOPY

2. Usage: CANOPY

3. Logic: Norm Closed

4. Timeout (mm:ss): 0:00

5. Audio OFF/ON/etc: ABOVE 1500 RPM

**INPUT 2**

6. Label: PITOT

7. Usage: GENERIC

8. Logic: Norm Open

9. Timeout (mm:ss): 0:00

10. Audio OFF/ON/etc: OFF

**INPUT 3**

11. Label: STALL

12. Usage: GENERIC

13. Logic: Norm Open

14. Timeout (mm:ss): 0:00

15. Audio OFF/ON/etc: ON

**LOCAL STATUS**

EFIS 1    1    2    3

☒    ☐    ☐

**REMOTE STATUS**

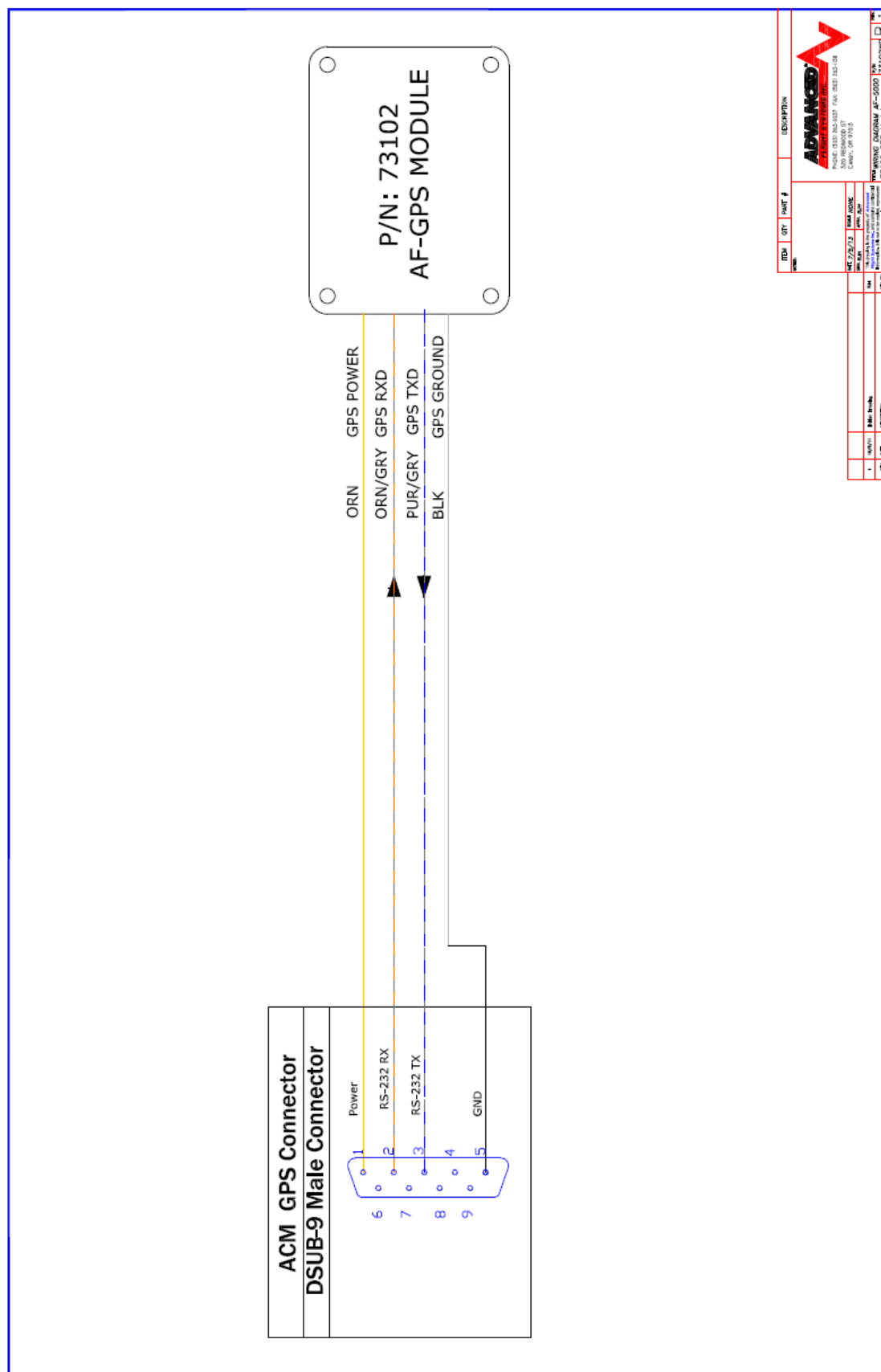
EFIS 2    1    2    3

☐    ☐    ☐

PREV
NEXT
SEL
SAVE
SEL

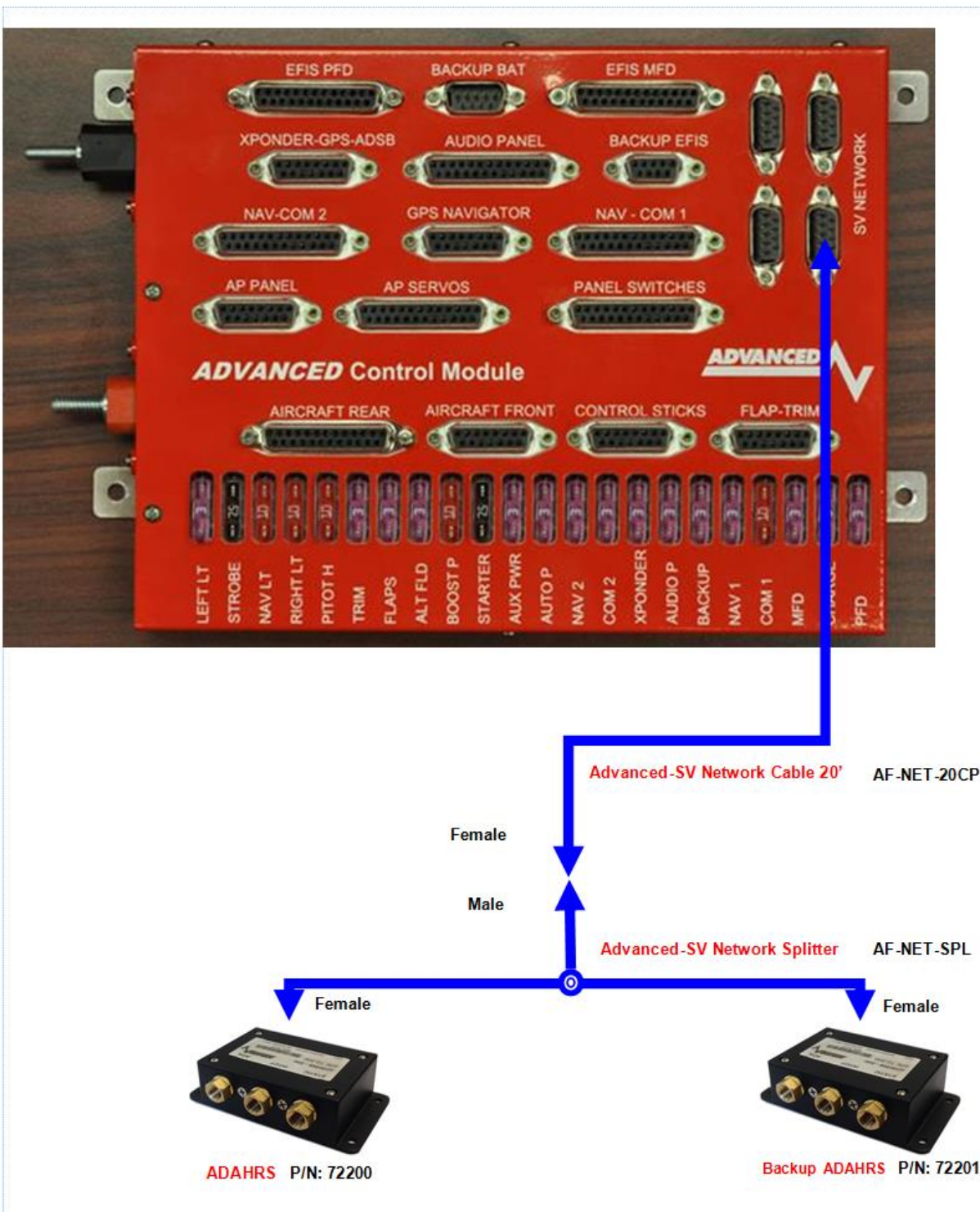
## 73102 AF-GPS Wiring

After routing the AF-GPS wires through the fuselage install the supplied DSUB-9 Male connector and plug into the Female AF-GPS harness from the ACM Module.



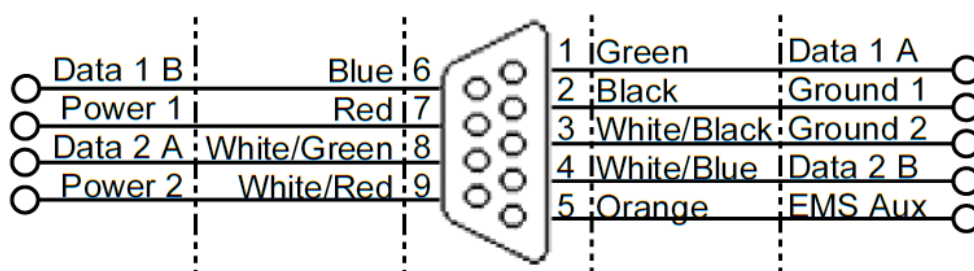
## 72200 ADAHRS 200/201 Wiring

After mounting the ADAHRS in the rear fuselage you should connect it to the spare SV-NETWORK port on the ACM module. The ADAHRS uses the standard SV-NETWORK DSUB-9 Female cables and should be wired using the following:

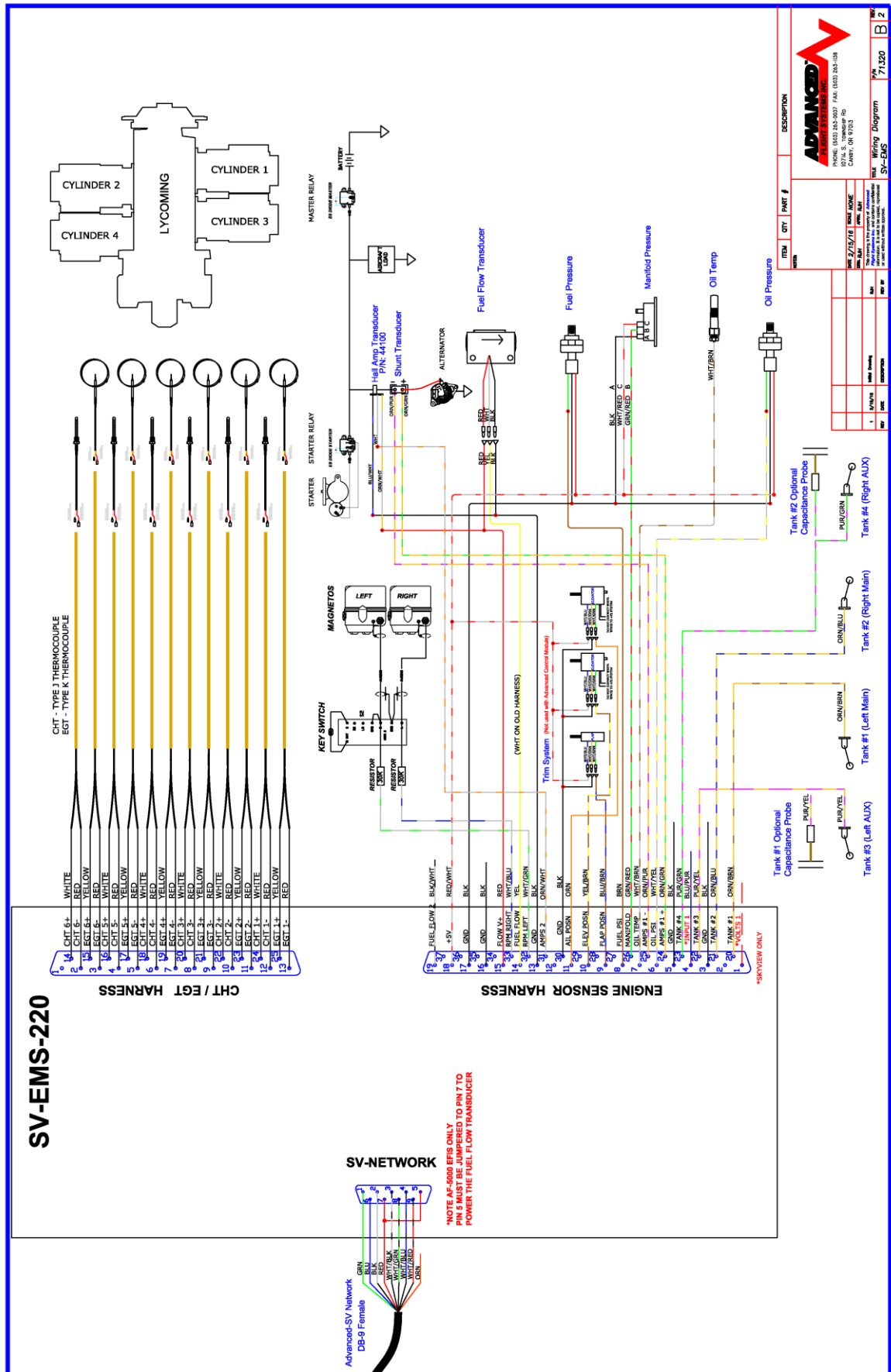


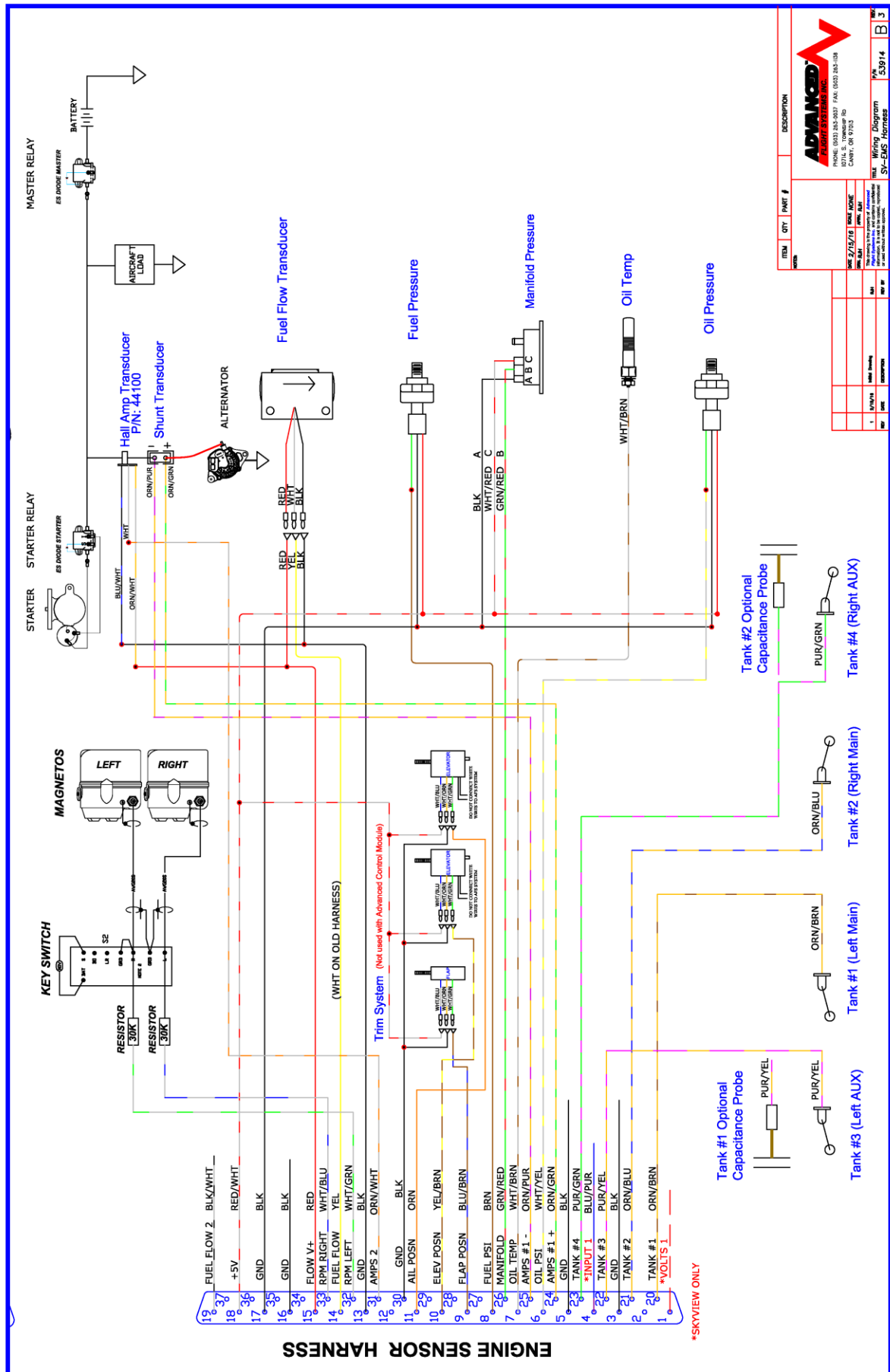
## Advanced SV Network Wiring

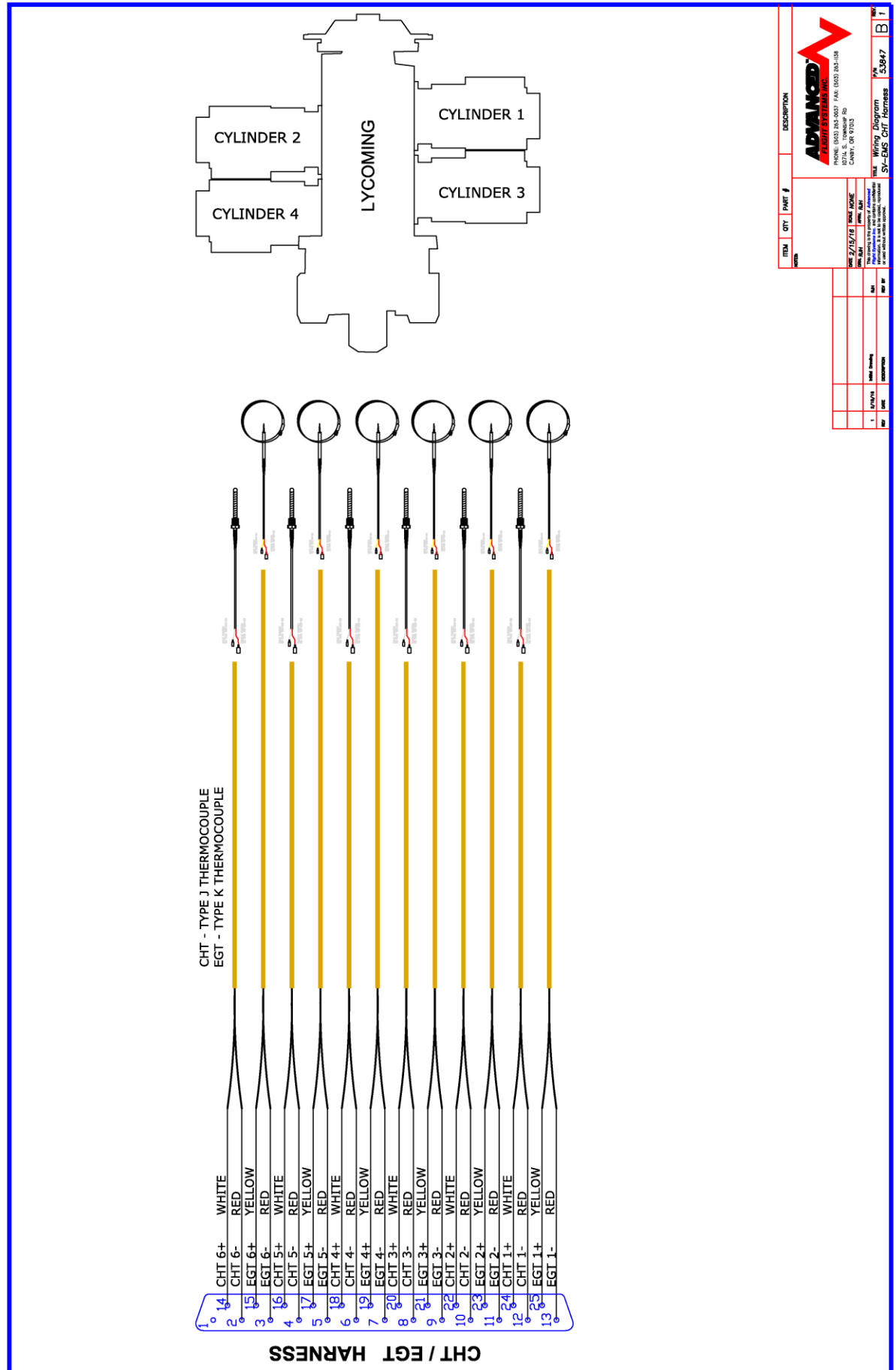
Advanced-SV Network Female D9 Pin	Advanced-SV Network Cable Wire Color	Description
1	Green	Network Data 1 A
2	Black	Network Ground 1
3	White with Black Stripe	Network Ground 2
4	White with Blue Stripe	Network Data 2 B
5	Orange	EMS Auxiliary Voltage
6	Blue	Network Data 1 B
7	Red	Network Power 1
8	White with Green stripe	Network Data 2 A
9	White with Red stripe	Network Power 2



Network Female D9 Pin Insertion View (Rear)







## ACM FUSE Power Chart

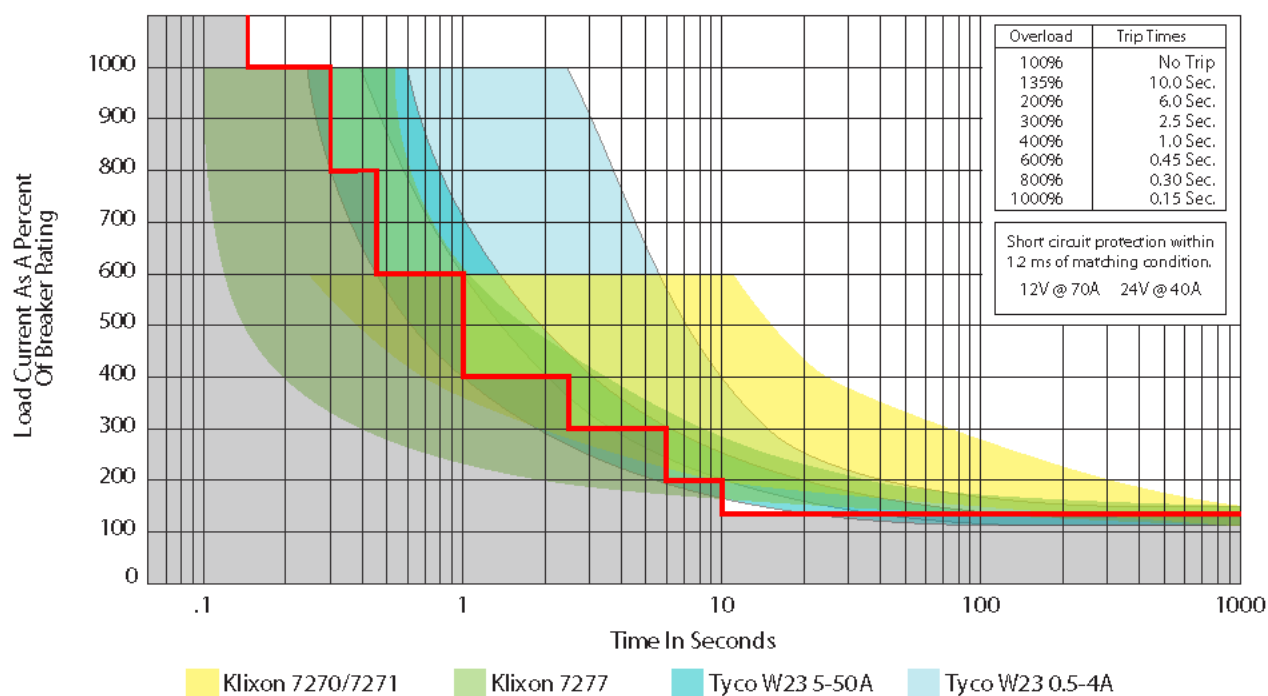
<b>Advanced Control Module Fuses</b>				
<b>Fuse</b>	<b>Description</b>	<b>Max Amps</b>	<b>Connector (Pins)</b>	<b>Control</b>
<b>1</b>	Left wing landing light	<b>10</b>	<b>AIRCRAFT REAR (13,25)</b>	<b>CPU</b>
<b>2</b>	Strobe Lights	<b>10</b>	<b>AIRCRAFT REAR (11,23,24)</b>	<b>CPU</b>
<b>3</b>	Nav Lights	<b>10</b>	<b>AIRCRAFT REAR (9,21,22)</b>	<b>CPU</b>
<b>4</b>	Right wing landing light	<b>10</b>	<b>AIRCRAFT REAR (7,20)</b>	<b>CPU</b>
<b>5</b>	Pitot Heat	<b>15</b>	<b>AIRCRAFT REAR (18,19)</b>	<b>Switch</b>
<b>6</b>	Trim Servos	<b>5</b>	<b>AP PANEL (9)</b>	<b>Vin-Power</b>
<b>7</b>	Flap Motor	<b>10</b>	<b>FLAP-TRIM</b>	<b>CPU</b>
<b>8</b>	Alternator Field	<b>5</b>	<b>AIRCRAFT FRONT (8)</b>	<b>Switch</b>
<b>9</b>	Boost Pump	<b>10</b>	<b>AIRCRAFT FRONT (7,15)</b>	<b>Switch</b>
<b>10</b>	Starter Contactor	<b>10</b>	<b>AIRCRAFT FRONT (6,14)</b>	<b>Vin-Power</b>
<b>11</b>	AUX Power (Defrost, AUX Plug)	<b>5+5</b>	<b>AIRCRAFT FRONT (12,13)</b>	<b>Switch</b>
<b>12</b>	Autopilot servos	<b>10</b>	<b>AP SERVOS (1,5,13)</b>	<b>Switch</b>
<b>13</b>	Nav 2 Radio	<b>10</b>	<b>NAV-COM 2 (12,13)</b>	<b>AV2 Relay</b>
<b>14</b>	Com 2 Radio	<b>10</b>	<b>NAV-COM 2 (1,2,3)</b>	<b>AV2 Relay</b>
<b>15</b>	Transponder + ADS-B	<b>5</b>	<b>XPONDER-GPS-ADSB (1,6)</b>	<b>AV2 Relay</b>
<b>16</b>	Audio Panel	<b>5</b>	<b>AUDIO PANEL (1,2)</b>	<b>AV2 Relay</b>
<b>17</b>	Backup EFIS - CO Detector	<b>5</b>	<b>BACKUP EFIS (1,5)</b>	<b>AV2 Relay</b>
<b>18</b>	NAV 1 Radio + GPS	<b>10</b>	<b>NAV-COM 1 (12,13) GPS NAVIGATOR (1,2)</b>	<b>AV1 Relay</b>
<b>19</b>	Com 1 Radio	<b>10</b>	<b>NAV-COM 1 (1,2,3)</b>	<b>AV1 Relay</b>
<b>20</b>	MFD EFIS	<b>5</b>	<b>EFIS MFD (1,2)</b>	<b>AV1 Relay</b>
<b>21</b>	Backup Battery Charger	<b>10</b>	<b>BACKUP BAT (2,3)</b>	<b>AV1 Relay</b>
<b>22</b>	PFD EFIS	<b>5</b>	<b>EFIS PFD (1,2)</b>	<b>Vin-Power</b>



## ACM-ECB Electronic Circuit Breakers

The ACM-ECB module uses electronic circuit breakers that can be reset or shut off from the EFIS screen.

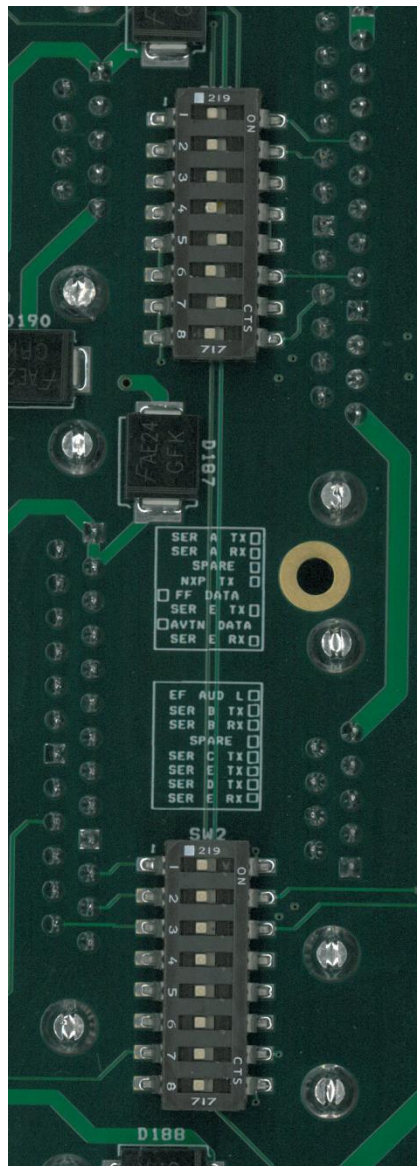
### Operating Range of ACM Electronic Circuit Breakers



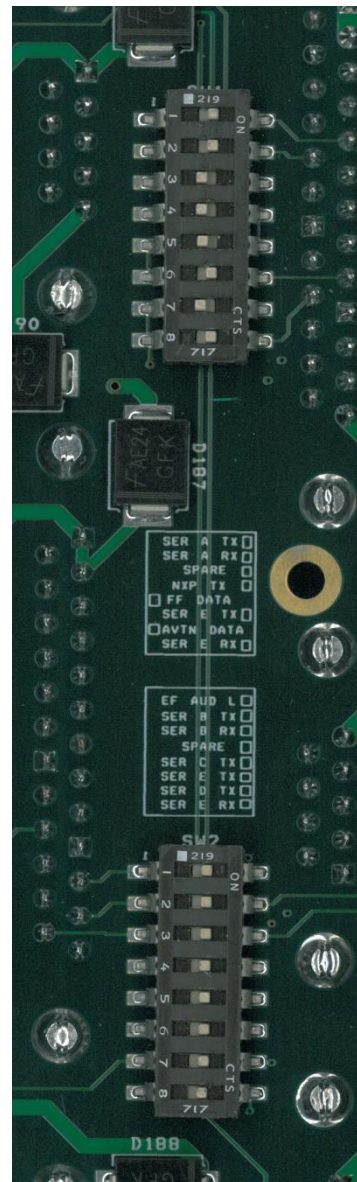
## ACM-ECB Jumper Settings

The Electronic Circuit Breaker version of the ACM has configuration jumpers that can be set from the back of the unit.

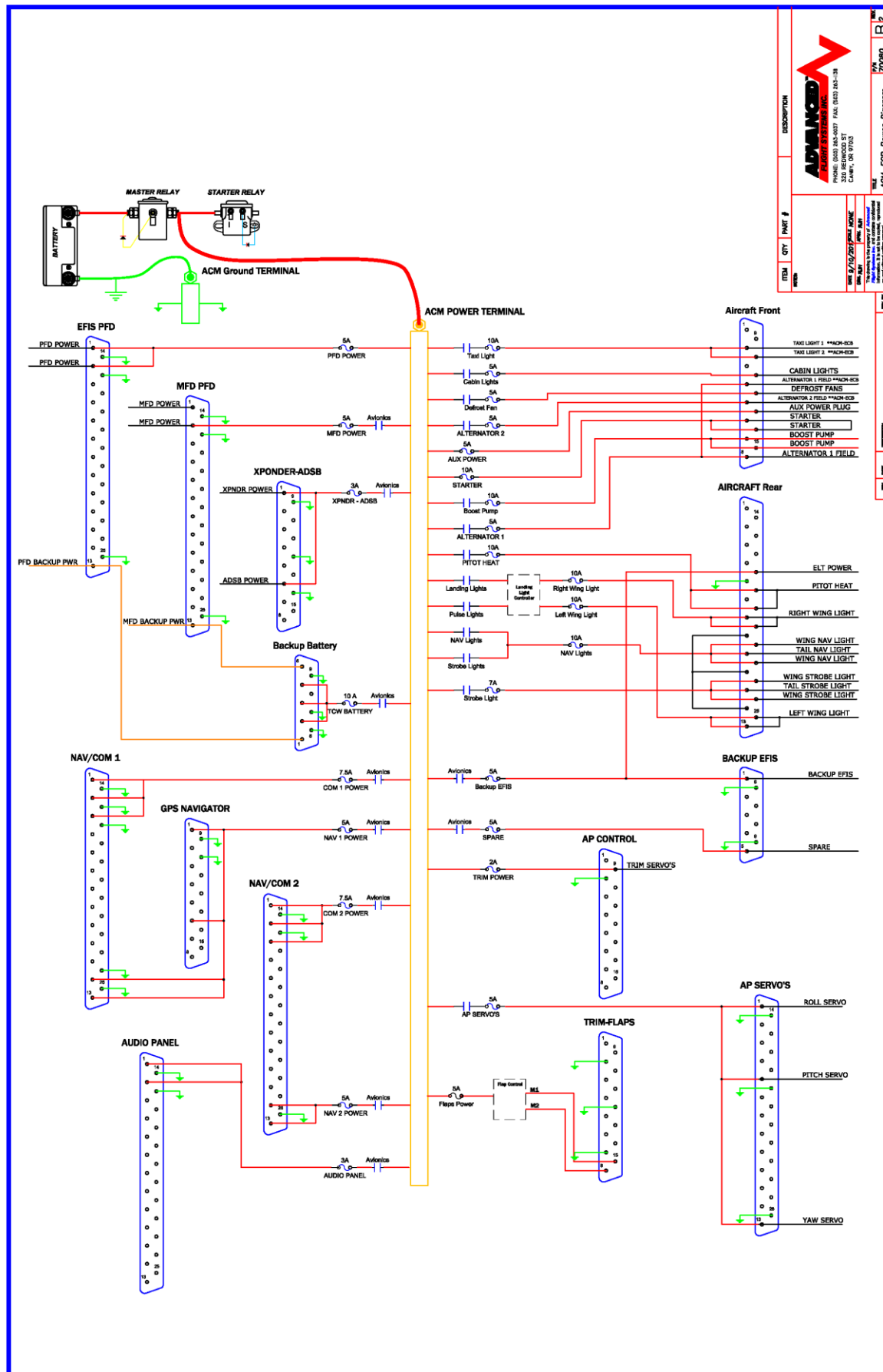
**AF-5000 Settings**

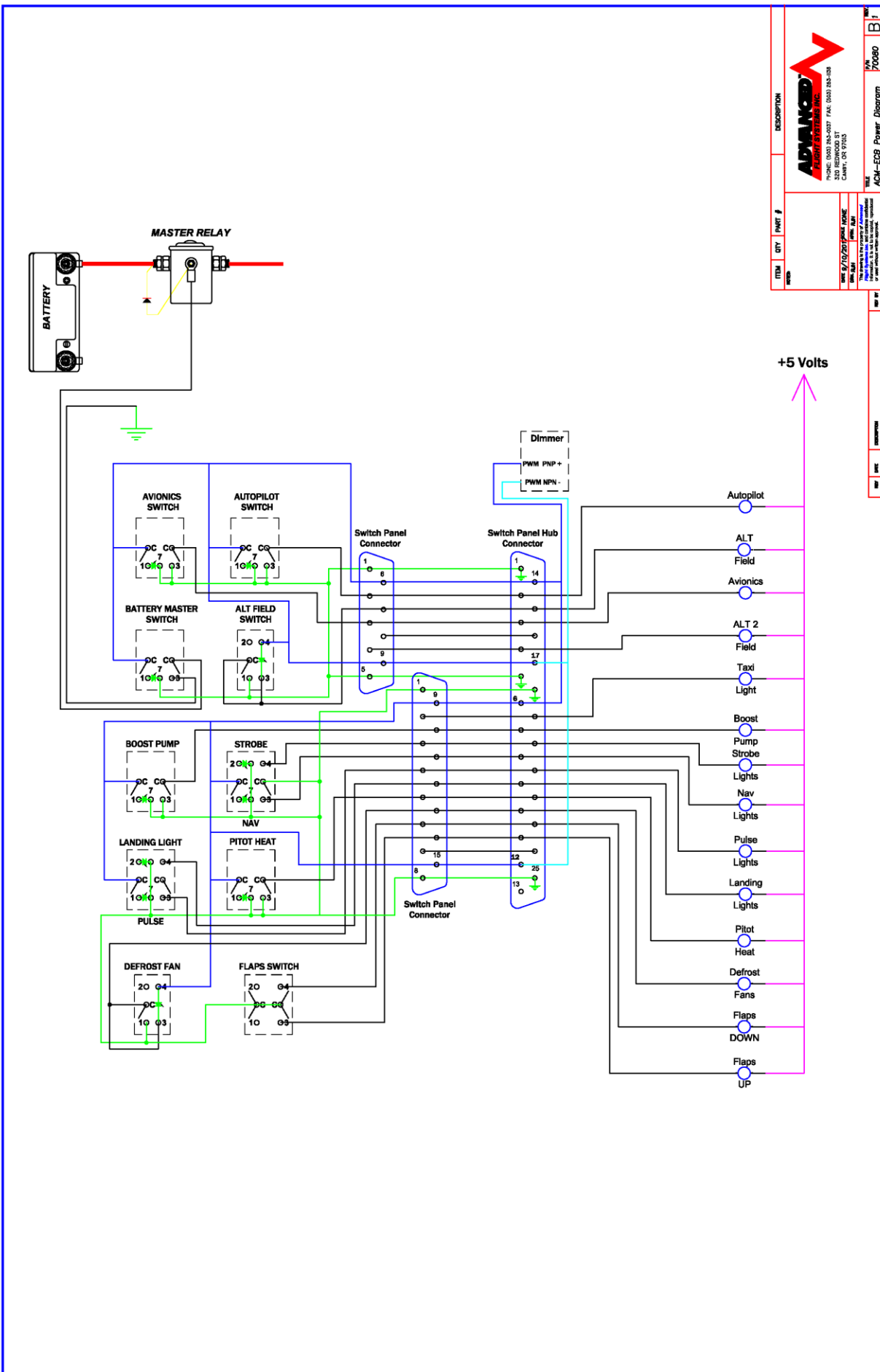


**Skyview Settings**



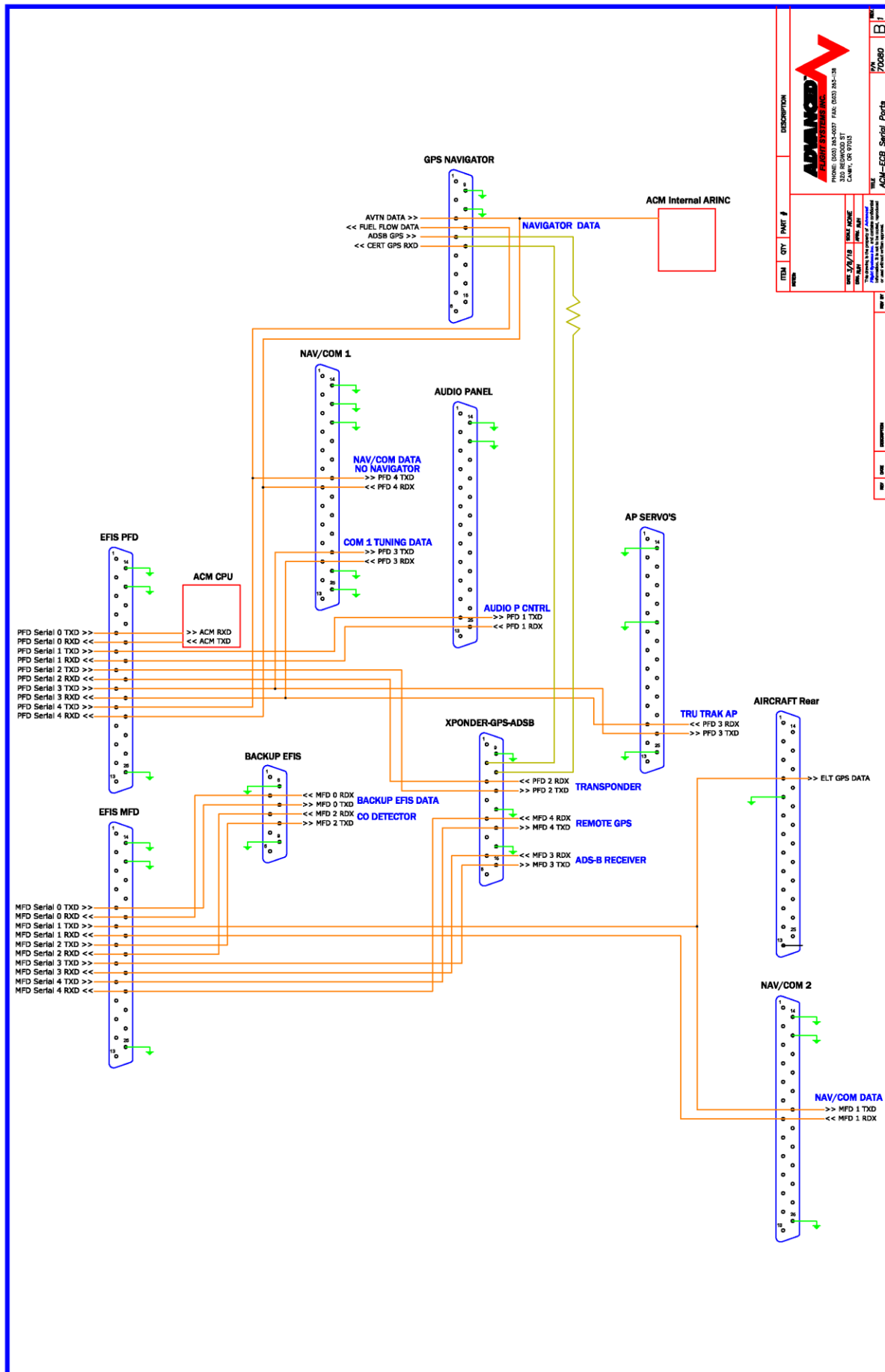
# ACM Power Diagram

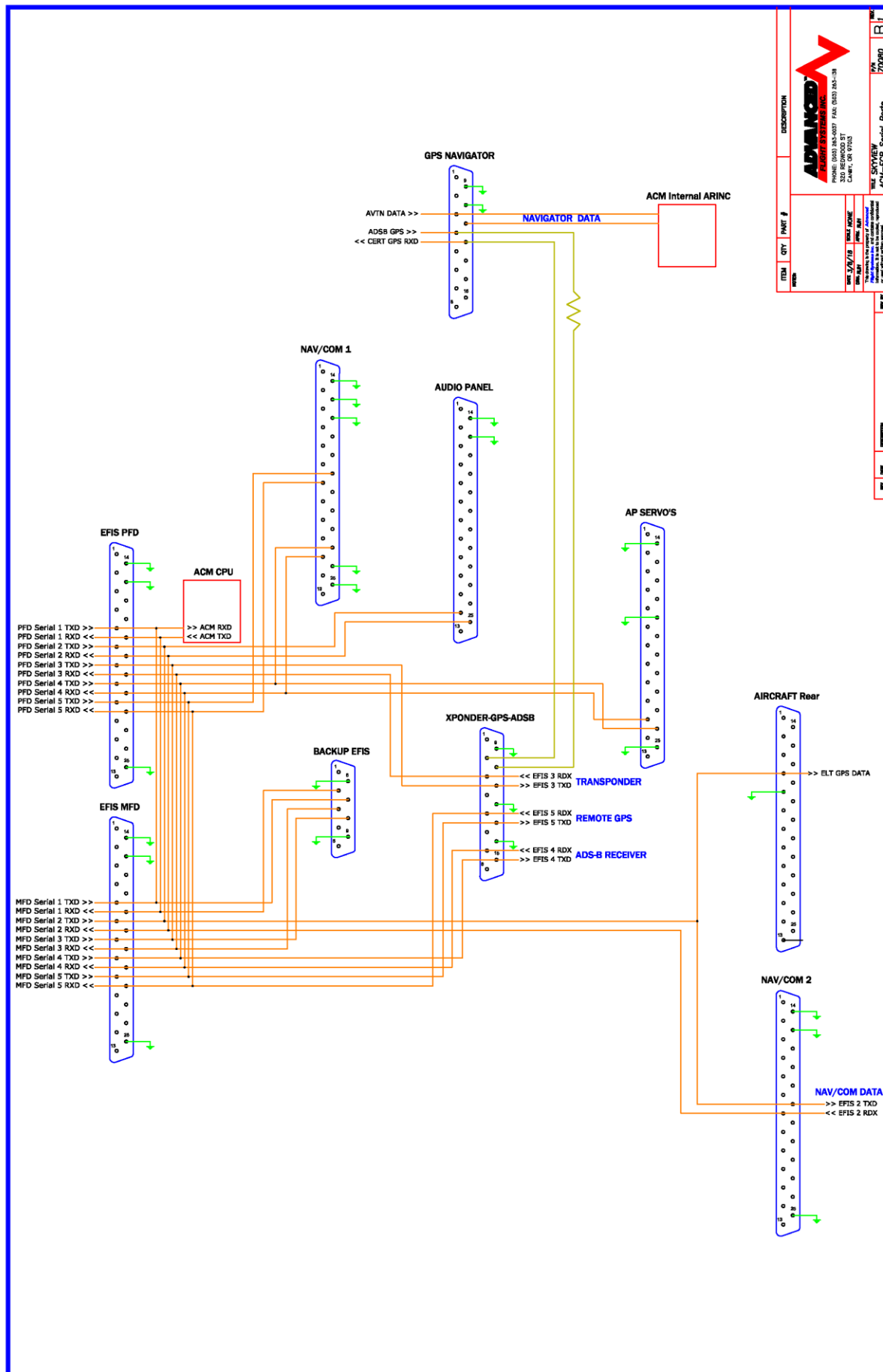




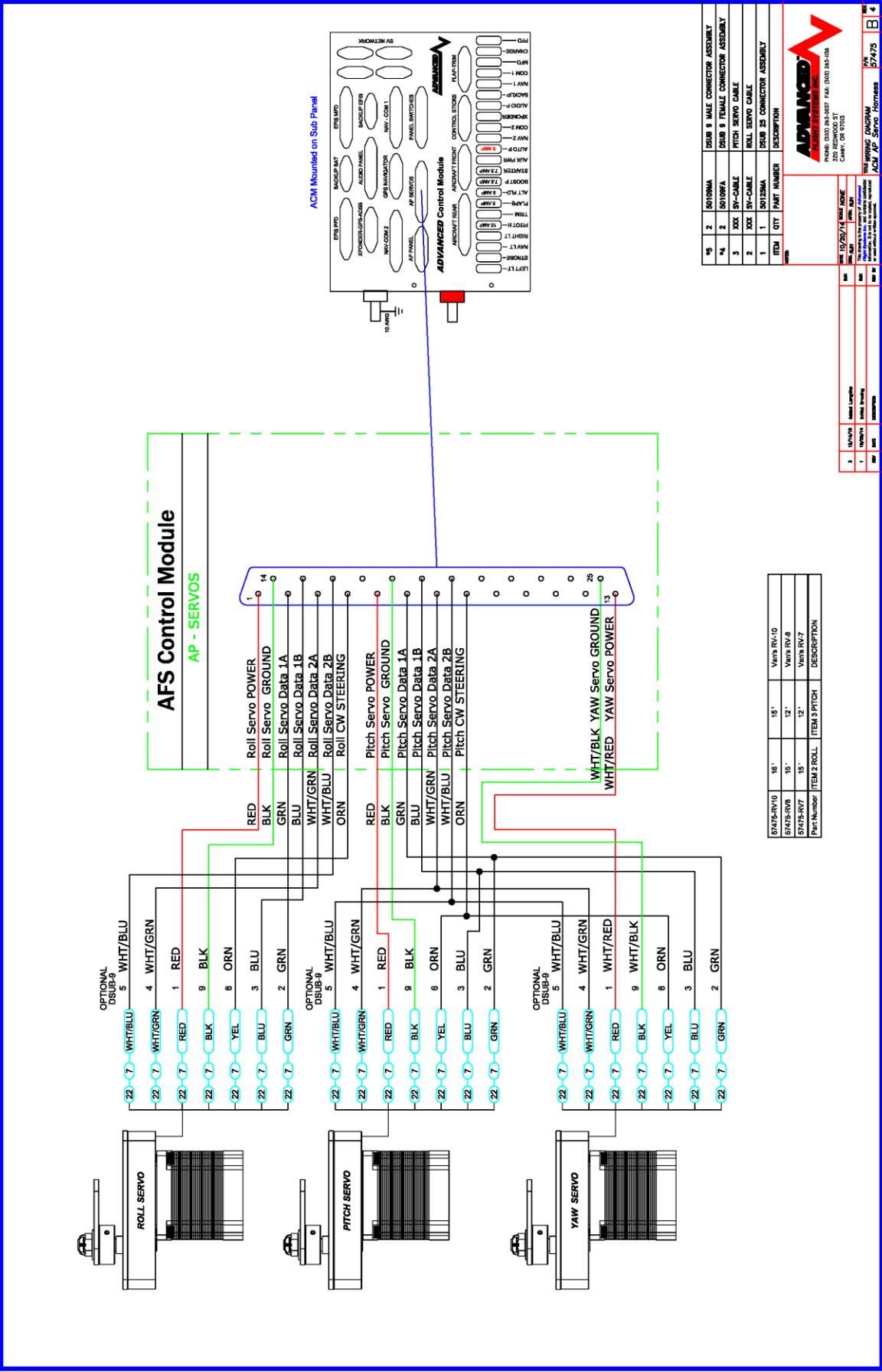
ITEM	QTY	PART #	DESCRIPTION
1	1	ADV-ECB	Power Diagram
2	1	ADV-ECB	Power Diagram
3	1	ADV-ECB	Power Diagram
4	1	ADV-ECB	Power Diagram
5	1	ADV-ECB	Power Diagram
6	1	ADV-ECB	Power Diagram
7	1	ADV-ECB	Power Diagram
8	1	ADV-ECB	Power Diagram
9	1	ADV-ECB	Power Diagram
10	1	ADV-ECB	Power Diagram
11	1	ADV-ECB	Power Diagram
12	1	ADV-ECB	Power Diagram
13	1	ADV-ECB	Power Diagram
14	1	ADV-ECB	Power Diagram
15	1	ADV-ECB	Power Diagram
16	1	ADV-ECB	Power Diagram
17	1	ADV-ECB	Power Diagram
18	1	ADV-ECB	Power Diagram
19	1	ADV-ECB	Power Diagram
20	1	ADV-ECB	Power Diagram
21	1	ADV-ECB	Power Diagram
22	1	ADV-ECB	Power Diagram
23	1	ADV-ECB	Power Diagram
24	1	ADV-ECB	Power Diagram
25	1	ADV-ECB	Power Diagram
26	1	ADV-ECB	Power Diagram
27	1	ADV-ECB	Power Diagram
28	1	ADV-ECB	Power Diagram
29	1	ADV-ECB	Power Diagram
30	1	ADV-ECB	Power Diagram
31	1	ADV-ECB	Power Diagram
32	1	ADV-ECB	Power Diagram
33	1	ADV-ECB	Power Diagram
34	1	ADV-ECB	Power Diagram
35	1	ADV-ECB	Power Diagram
36	1	ADV-ECB	Power Diagram
37	1	ADV-ECB	Power Diagram
38	1	ADV-ECB	Power Diagram
39	1	ADV-ECB	Power Diagram
40	1	ADV-ECB	Power Diagram
41	1	ADV-ECB	Power Diagram
42	1	ADV-ECB	Power Diagram
43	1	ADV-ECB	Power Diagram
44	1	ADV-ECB	Power Diagram
45	1	ADV-ECB	Power Diagram
46	1	ADV-ECB	Power Diagram
47	1	ADV-ECB	Power Diagram
48	1	ADV-ECB	Power Diagram
49	1	ADV-ECB	Power Diagram
50	1	ADV-ECB	Power Diagram
51	1	ADV-ECB	Power Diagram
52	1	ADV-ECB	Power Diagram
53	1	ADV-ECB	Power Diagram
54	1	ADV-ECB	Power Diagram
55	1	ADV-ECB	Power Diagram
56	1	ADV-ECB	Power Diagram
57	1	ADV-ECB	Power Diagram
58	1	ADV-ECB	Power Diagram
59	1	ADV-ECB	Power Diagram
60	1	ADV-ECB	Power Diagram
61	1	ADV-ECB	Power Diagram
62	1	ADV-ECB	Power Diagram
63	1	ADV-ECB	Power Diagram
64	1	ADV-ECB	Power Diagram
65	1	ADV-ECB	Power Diagram
66	1	ADV-ECB	Power Diagram
67	1	ADV-ECB	Power Diagram
68	1	ADV-ECB	Power Diagram
69	1	ADV-ECB	Power Diagram
70	1	ADV-ECB	Power Diagram
71	1	ADV-ECB	Power Diagram
72	1	ADV-ECB	Power Diagram
73	1	ADV-ECB	Power Diagram
74	1	ADV-ECB	Power Diagram
75	1	ADV-ECB	Power Diagram
76	1	ADV-ECB	Power Diagram
77	1	ADV-ECB	Power Diagram
78	1	ADV-ECB	Power Diagram
79	1	ADV-ECB	Power Diagram
80	1	ADV-ECB	Power Diagram
81	1	ADV-ECB	Power Diagram
82	1	ADV-ECB	Power Diagram
83	1	ADV-ECB	Power Diagram
84	1	ADV-ECB	Power Diagram
85	1	ADV-ECB	Power Diagram
86	1	ADV-ECB	Power Diagram
87	1	ADV-ECB	Power Diagram
88	1	ADV-ECB	Power Diagram
89	1	ADV-ECB	Power Diagram
90	1	ADV-ECB	Power Diagram
91	1	ADV-ECB	Power Diagram
92	1	ADV-ECB	Power Diagram
93	1	ADV-ECB	Power Diagram
94	1	ADV-ECB	Power Diagram
95	1	ADV-ECB	Power Diagram
96	1	ADV-ECB	Power Diagram
97	1	ADV-ECB	Power Diagram
98	1	ADV-ECB	Power Diagram
99	1	ADV-ECB	Power Diagram
100	1	ADV-ECB	Power Diagram

# ACM RS-232 Wiring Diagram AF-5000



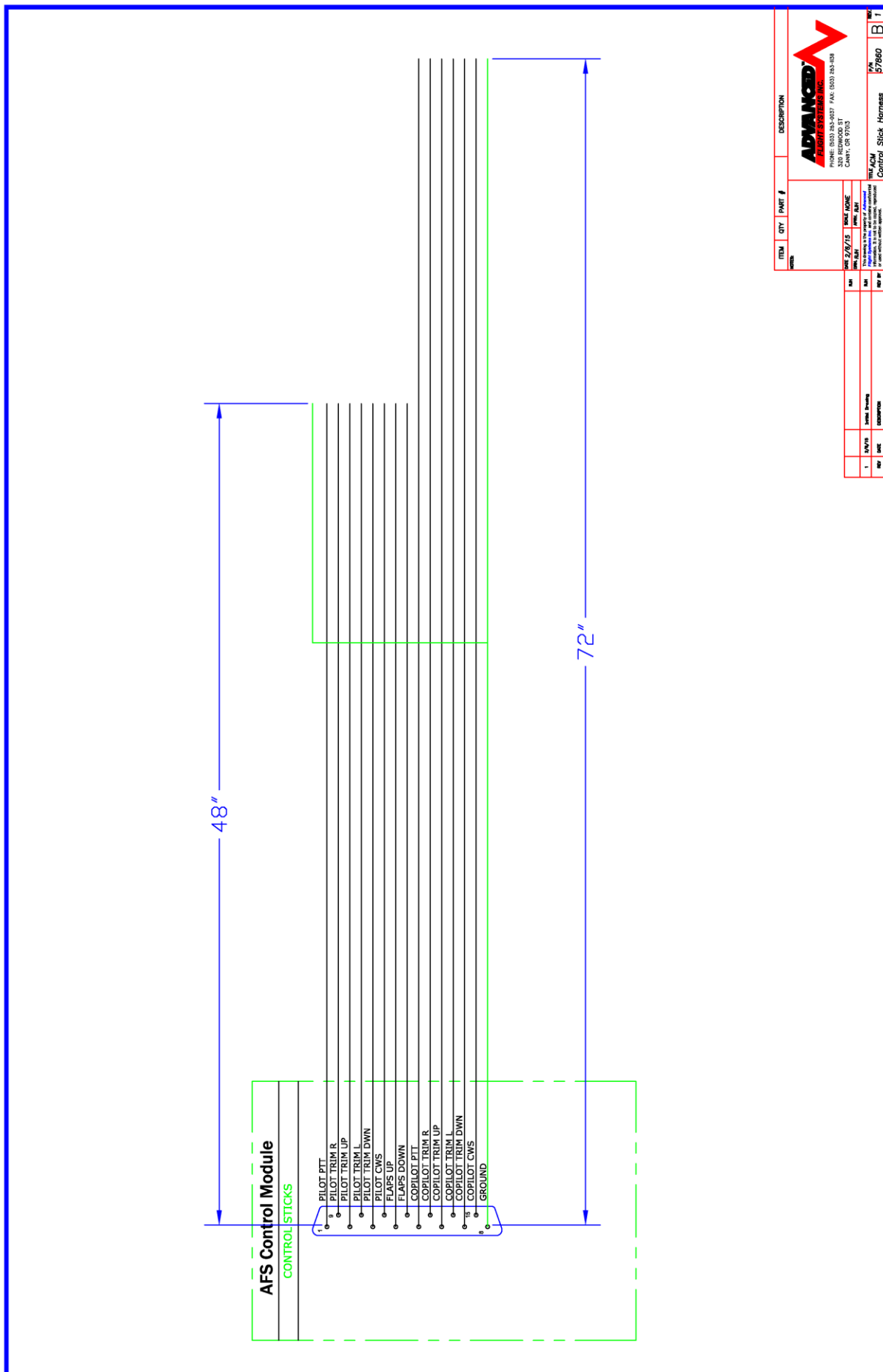










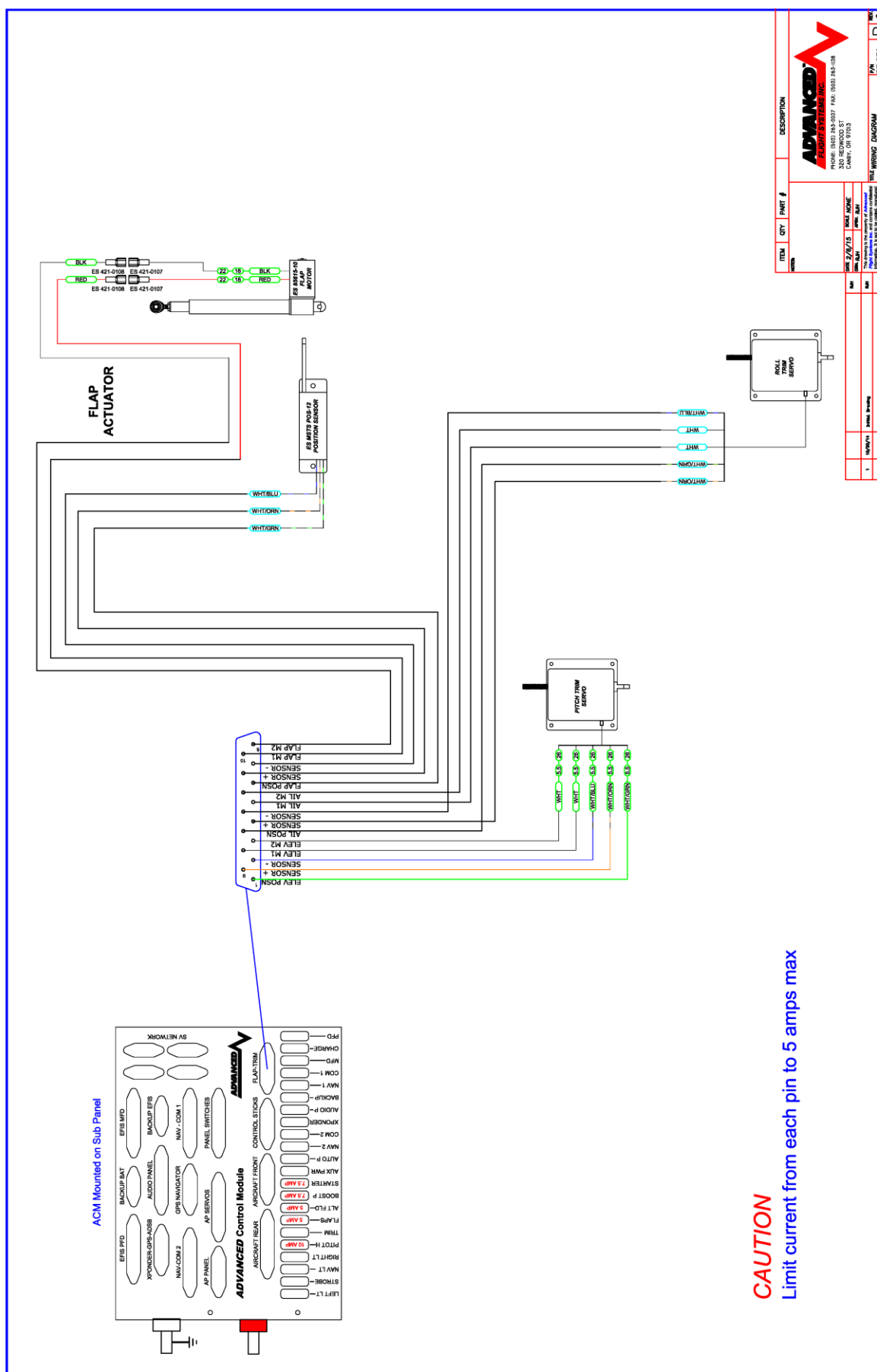


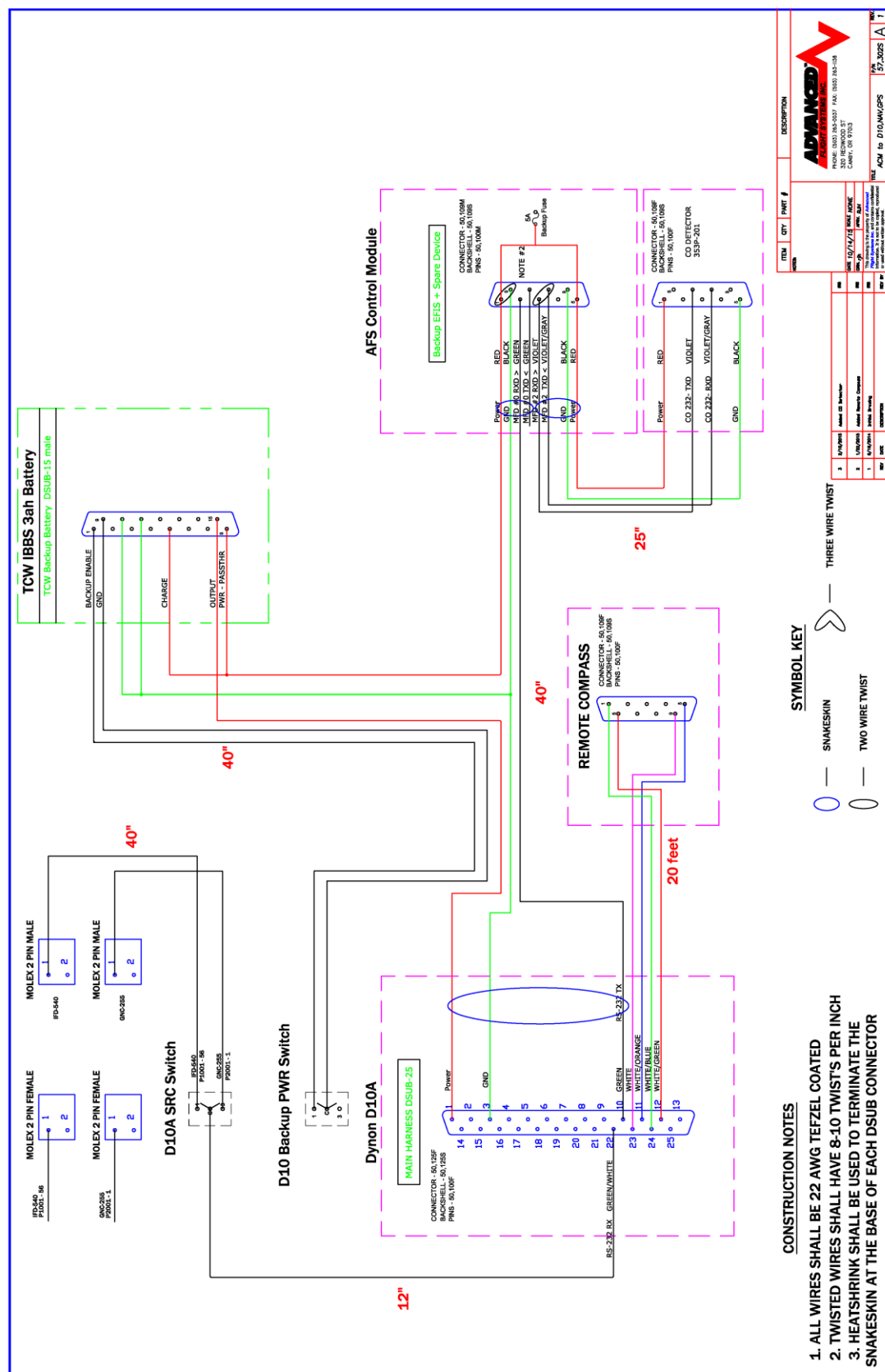
ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	AFS Control Module
2	1	EA	AFS Control Stick
3	1	EA	AFS Control Stick Harness
4	1	EA	AFS Control Stick Mounting Bracket
5	1	EA	AFS Control Stick Mounting Bracket
6	1	EA	AFS Control Stick Mounting Bracket
7	1	EA	AFS Control Stick Mounting Bracket
8	1	EA	AFS Control Stick Mounting Bracket
9	1	EA	AFS Control Stick Mounting Bracket
10	1	EA	AFS Control Stick Mounting Bracket
11	1	EA	AFS Control Stick Mounting Bracket
12	1	EA	AFS Control Stick Mounting Bracket
13	1	EA	AFS Control Stick Mounting Bracket
14	1	EA	AFS Control Stick Mounting Bracket
15	1	EA	AFS Control Stick Mounting Bracket
16	1	EA	AFS Control Stick Mounting Bracket
17	1	EA	AFS Control Stick Mounting Bracket
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99	1	EA	AFS Control Stick Mounting Bracket
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PHONE: (800) 283-4027 FAX: (800) 283-4028  
 10000 WILSON BLVD  
 CANTON, OH 44705

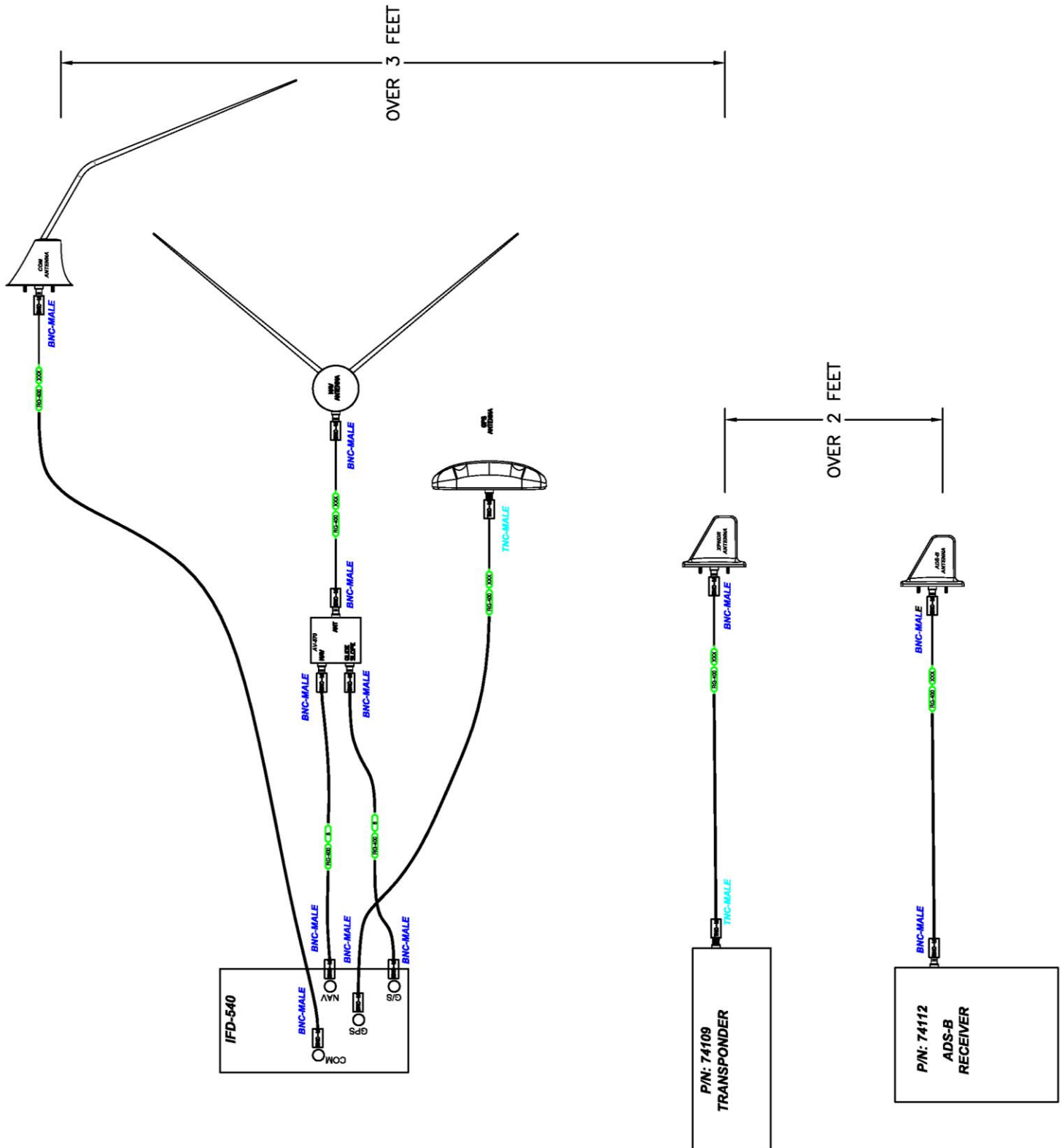
ITEM # 57860  
 QTY 1  
 UNIT B  
 DESCRIPTION Control Stick Harness



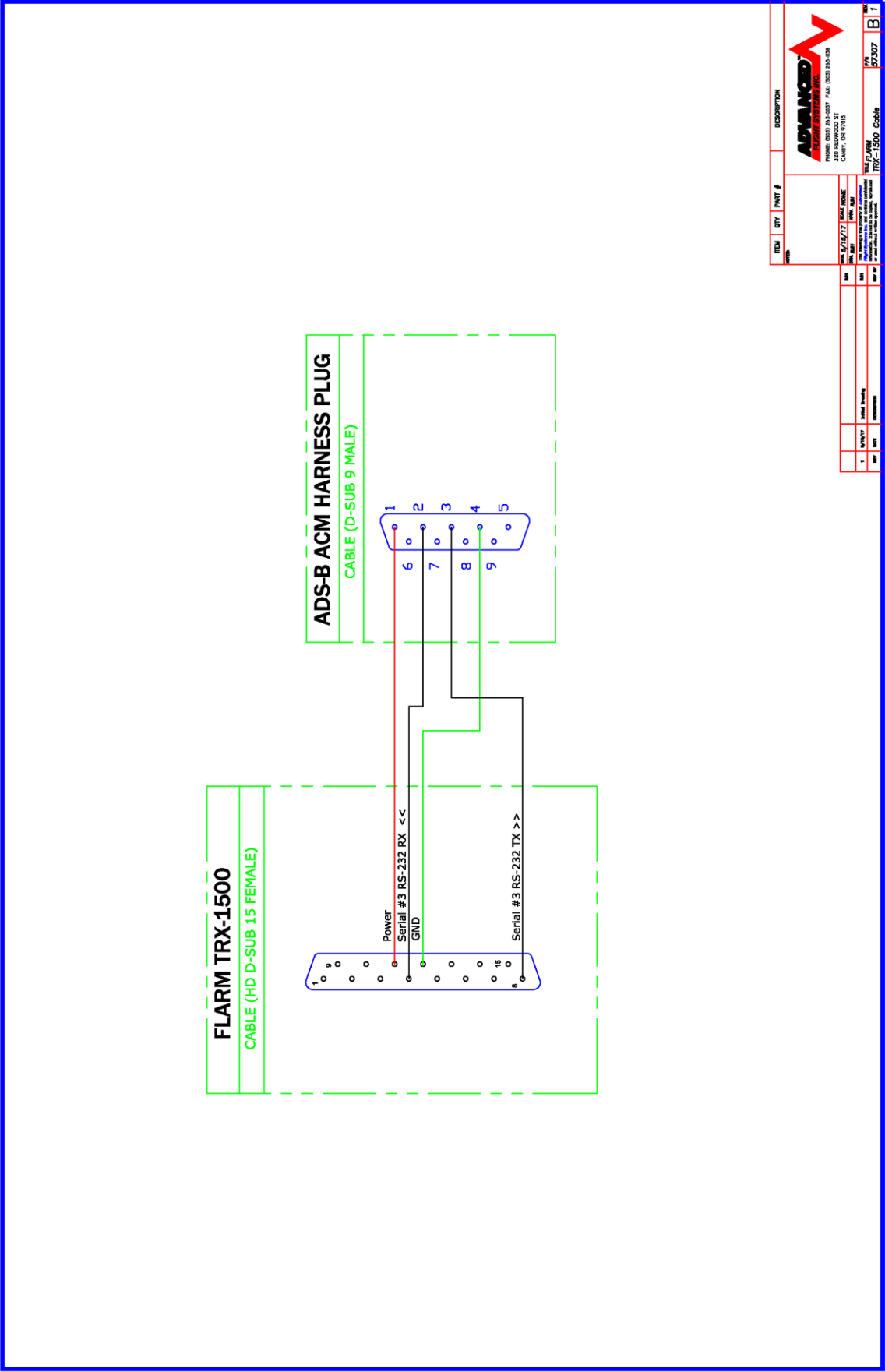


# Aircraft Antennas

Use RG400 Cable and Contact airframe manufacturer for recommended mounting locations.



FLARM TRX-1500 Interface



## FLARM TRX-1500 Configuration

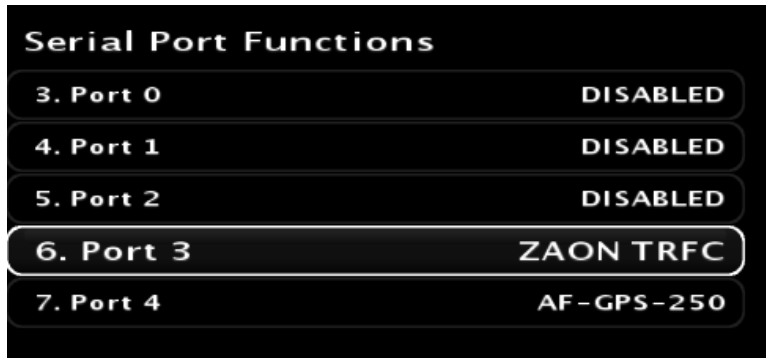
Use the TRX PC configuration software set the TRX-1500 to:

**Serial Port 3 Output format: GARMIN TIS**

**Baud Rate: 9600**

On the MFD EFIS screen:

Calibration->Admin Settings. Set item, '6. Port 3' to 'ZAON TRFC'



## RV-14 Panel Install



RV-

### 14 Remote Component Mounting

The remote radio transceiver, backup battery and audio panel mount on new ribs mounted in the glove compartment area. The following modifications need to be done:

- Remote glove compartment ring from the RV-14 sub panel P/N: F-01455B
- Install new ribs to the RV-14 sub panel P/N:68102 and P/N:68103
- Install new center console cover plate with Alternator Circuit breaker and Alternator Shunt P/N: 68101

### Avidyne IFD-540 Tray Mounting

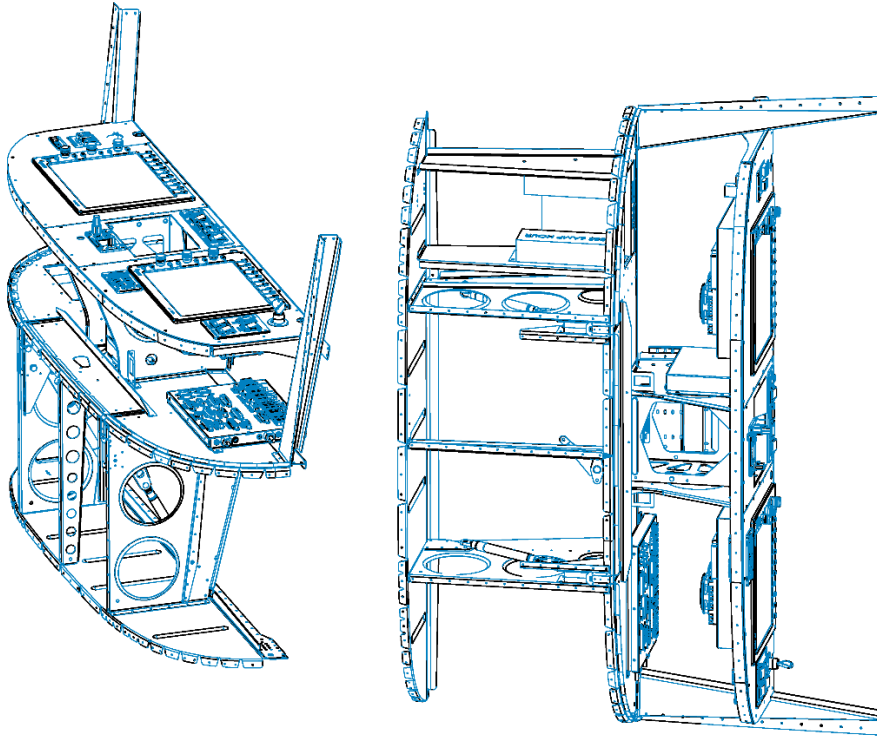
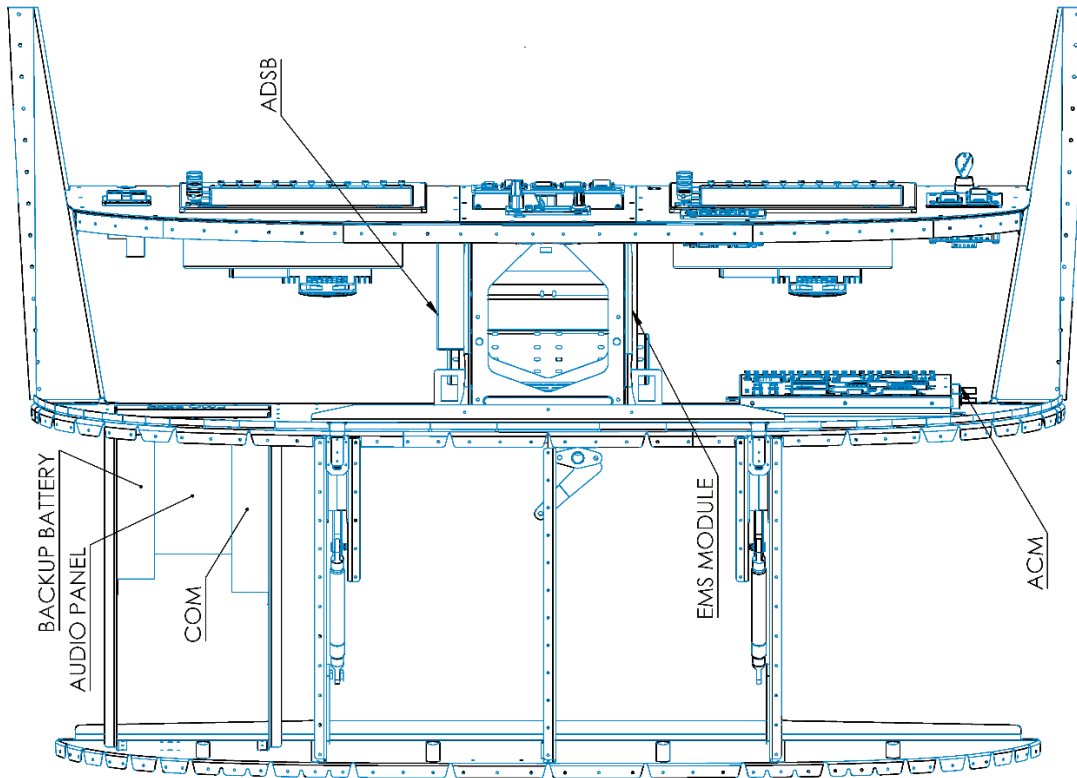
The IFD Tray mounts to the RV-14 airframe panel ribs. You will need to use the IFD tray as a template to mark the side hole locations on the airframe panel ribs. After marking the 8 hole locations, 4 on each side you will need to drill for 6-32 screws. Mount the tray to the airframe panel ribs using qty 8 6-32 x 3/8" counter sunk screws and nylon lock nuts.

### RV-14 EMS-220 Module Install

Mount the EMS-220 to the left side panel mounting rib, see P/N: 25014 RV-14 remote component mounting drawing.

### RV-14 SV-ADSB-470/472 ADS-B Module Install

Mount the ADSB receiver to the right side panel mounting rib, see P/N: 25014 RV-14 remote component mounting drawing.



RV 14 AVIONICS ASSEMBLY

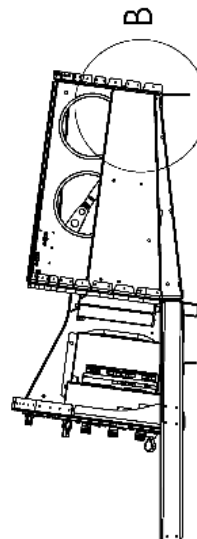
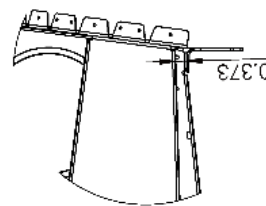
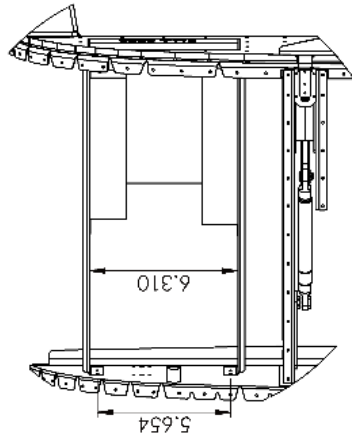
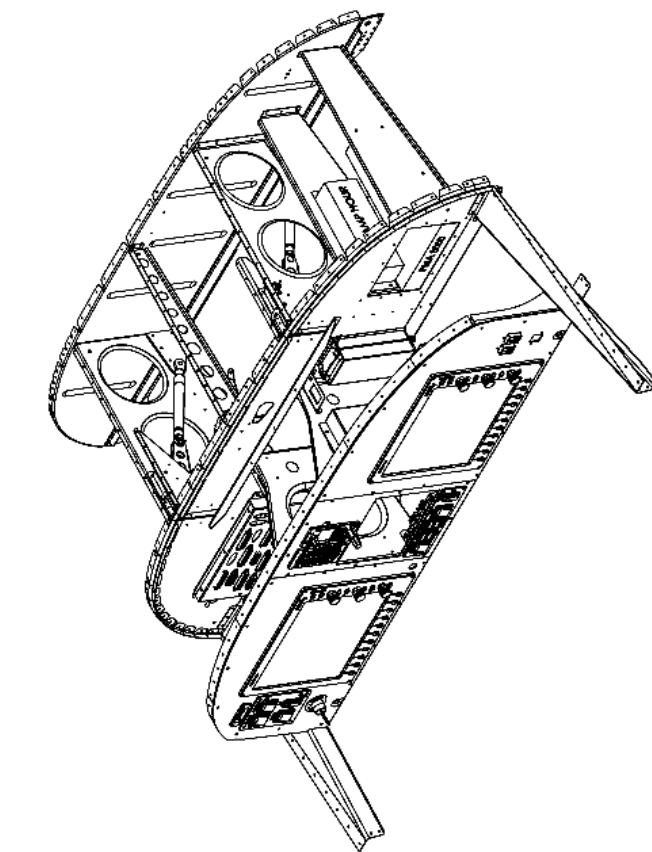
DRAWING NUMBER

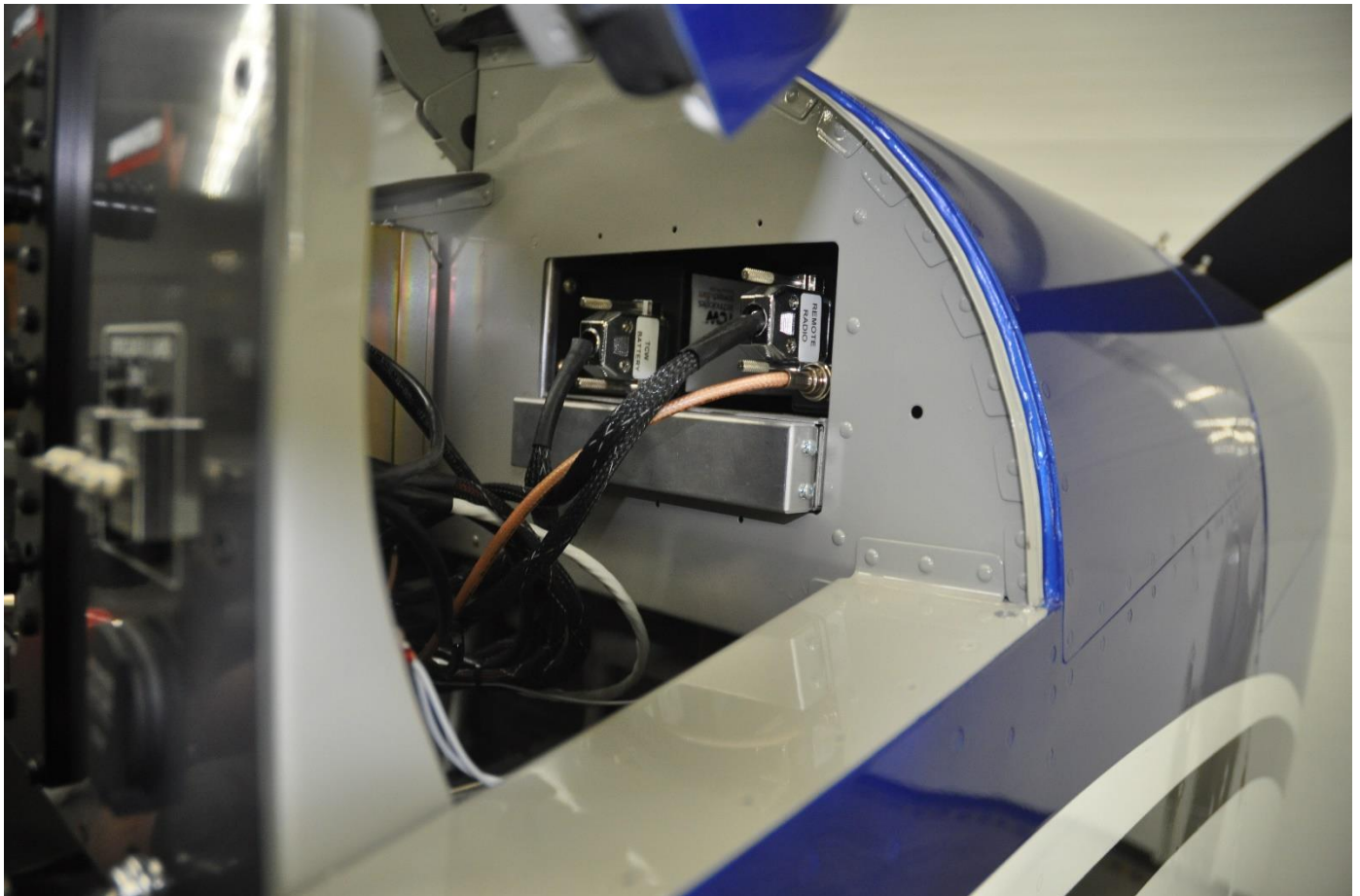
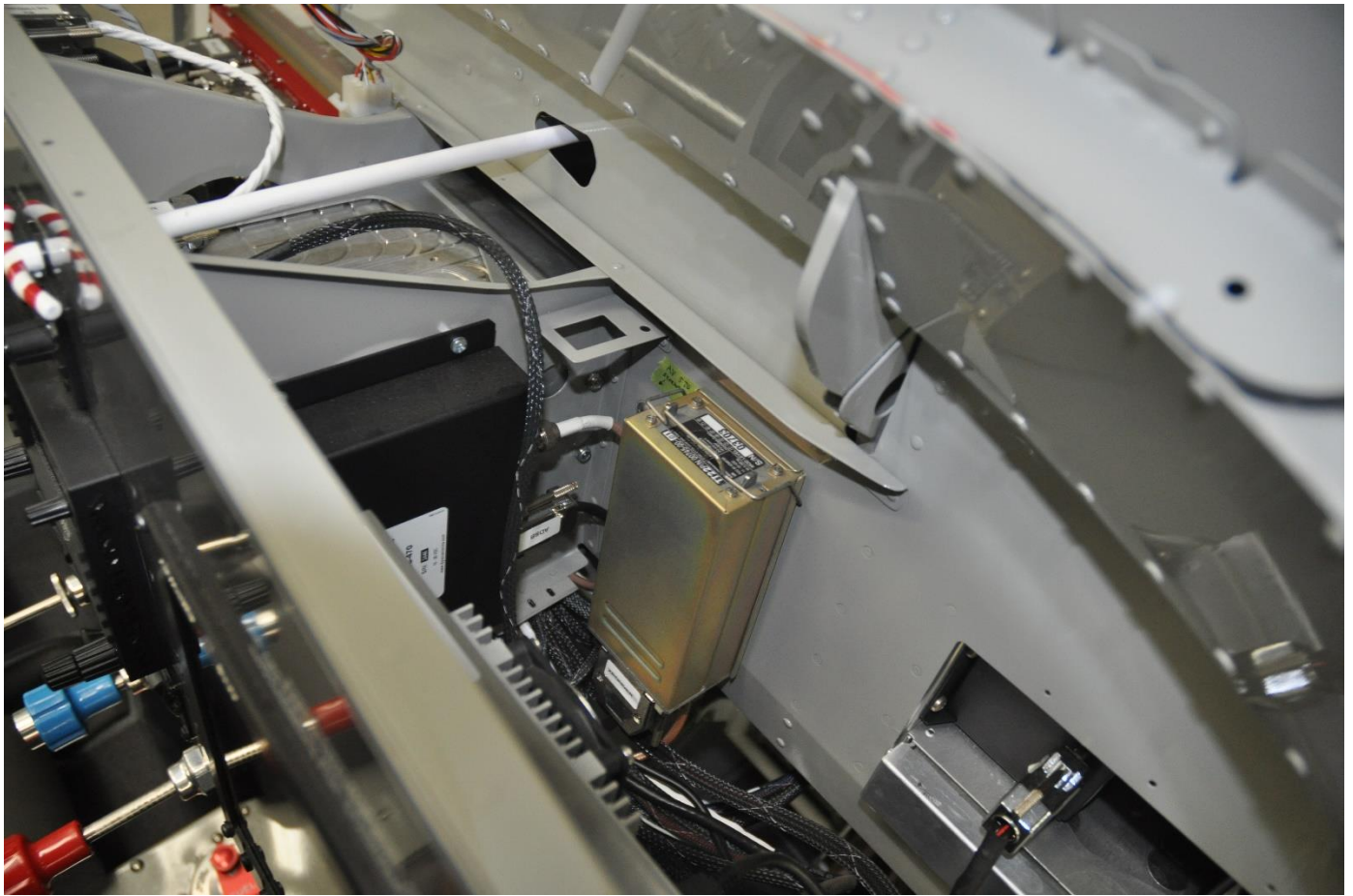
REVISION

<b>ADVANCED FLIGHT SYSTEMS INC.</b> PO Box 270 Canby, OR 97013 Tel: (503) 265-0037 Fax: (503) 265-1138 Email: <a href="mailto:info@advanced-flight.com">info@advanced-flight.com</a> <a href="http://www.Advanced-Flight-Systems.com">www.Advanced-Flight-Systems.com</a>		<b>ADVANCED FLIGHT SYSTEMS INC.</b> PO Box 270 Canby, OR 97013 Tel: (503) 265-0037 Fax: (503) 265-1138 Email: <a href="mailto:info@advanced-flight.com">info@advanced-flight.com</a> <a href="http://www.Advanced-Flight-Systems.com">www.Advanced-Flight-Systems.com</a>	
Part Pending © Copyrighted	DATE: 3/16/2017	OK	SCALE
DESIGN	OF 1	SHEET	25014
CONSTRUCTION	Default		
REVISION	25014		
TOLERANCES XX ±.010 XXX ±.005 HOLES: +.010/- .000 ANGLES: ±0.25° SURFACE FIN:		TITLE <b>14 COMPONENTS</b>	

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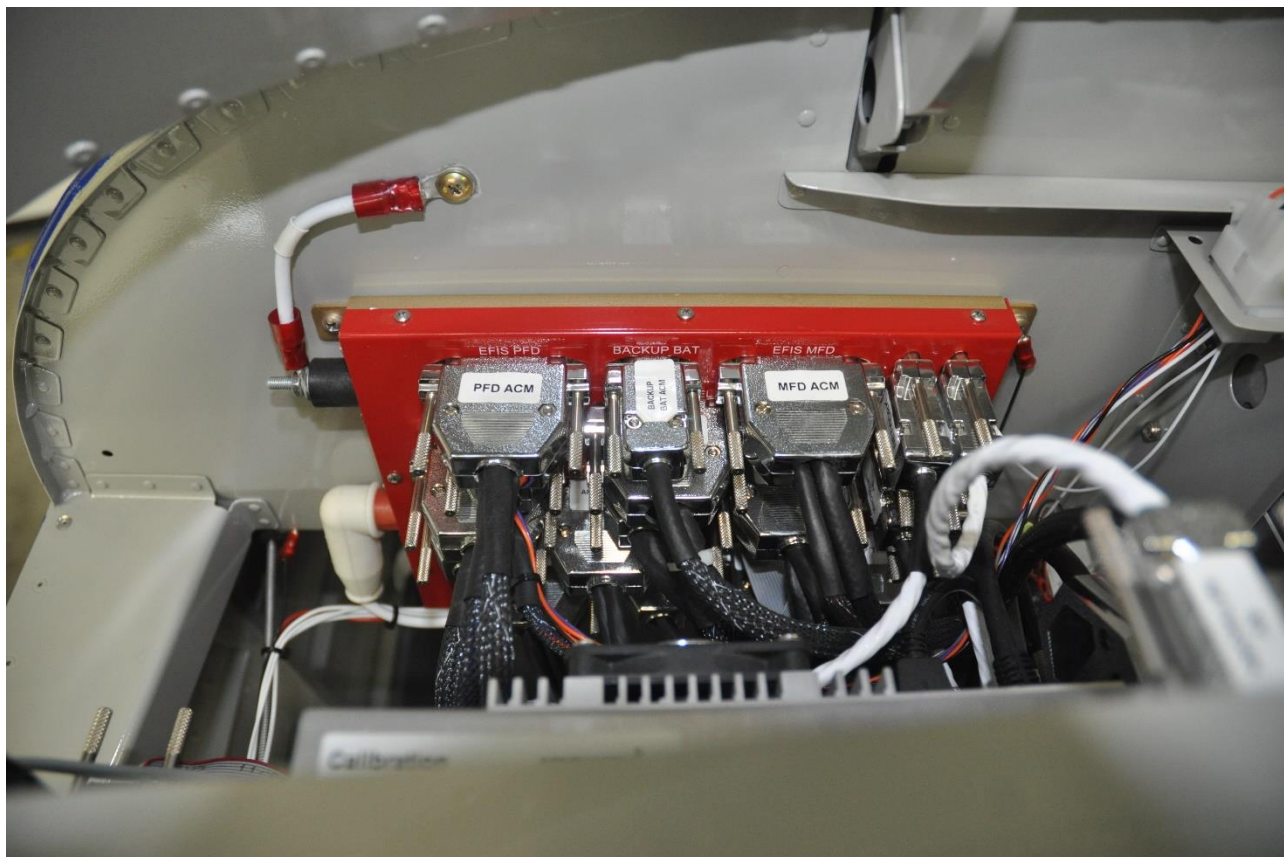






### Advanced Control Module (ACM)

The P/N: 70050 ACM module mounts on the sub panel behind the EFIS PFD. You will need to drill the sub-panel using the ACM module as a template. The ACM module should be connected using QTY:4 10-32 x .5" screw, washer and nylon lock nut. You will also need to drill the sub-panel for the ACM ground wire, make sure you remove the paint for a good electrical contact using a 10-32 x .5" screw, washer and nylon lock nut.



- Connect the main power wire from the battery master relay to the red power lug on the ACM. The Van's supplied main power wire should have a 1/4" (0.250") ring terminal with a molded plastic cover.
- Connect the ground power wire from the airframe ground to the black power lug on the ACM. The ACM main ground wire should have a #10 ring terminal with a molded plastic cover.

***Do not over-torque the power terminal nuts, they are soft copper and will break if over-torqued.***

***Red Main Power Terminal Max Nut Torque: 30 in-lbs***

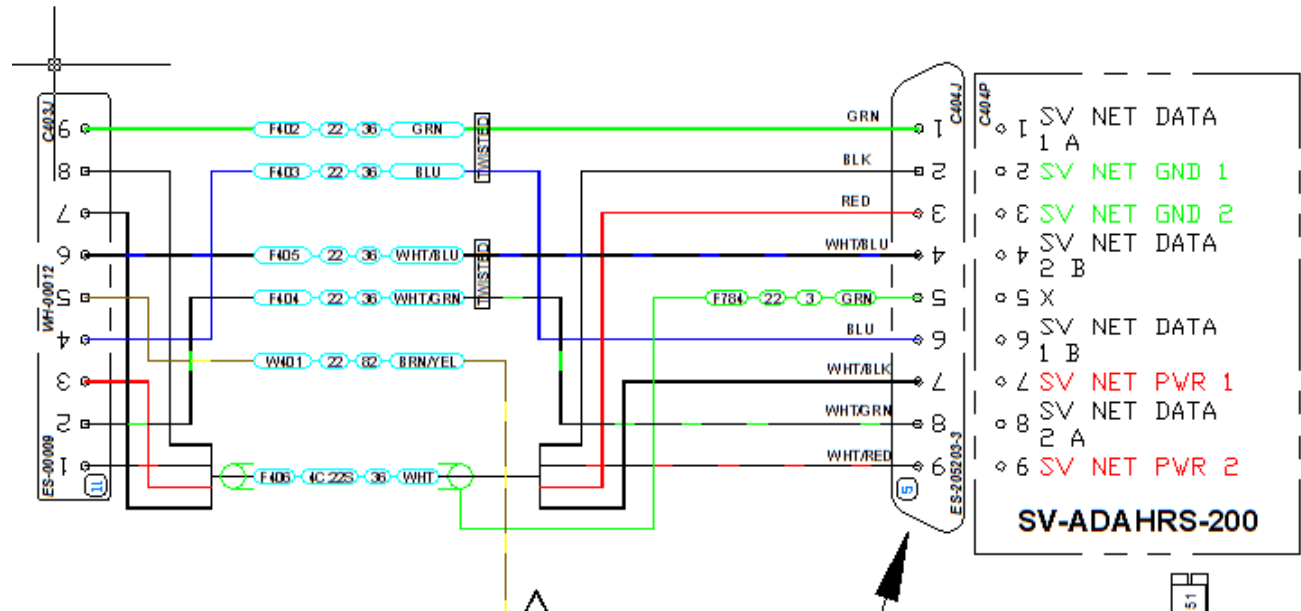
***Black Main Ground Terminal Max Nut Torque: 24 in-lbs***



## RV-14 ADAHRS Mounting and Wiring

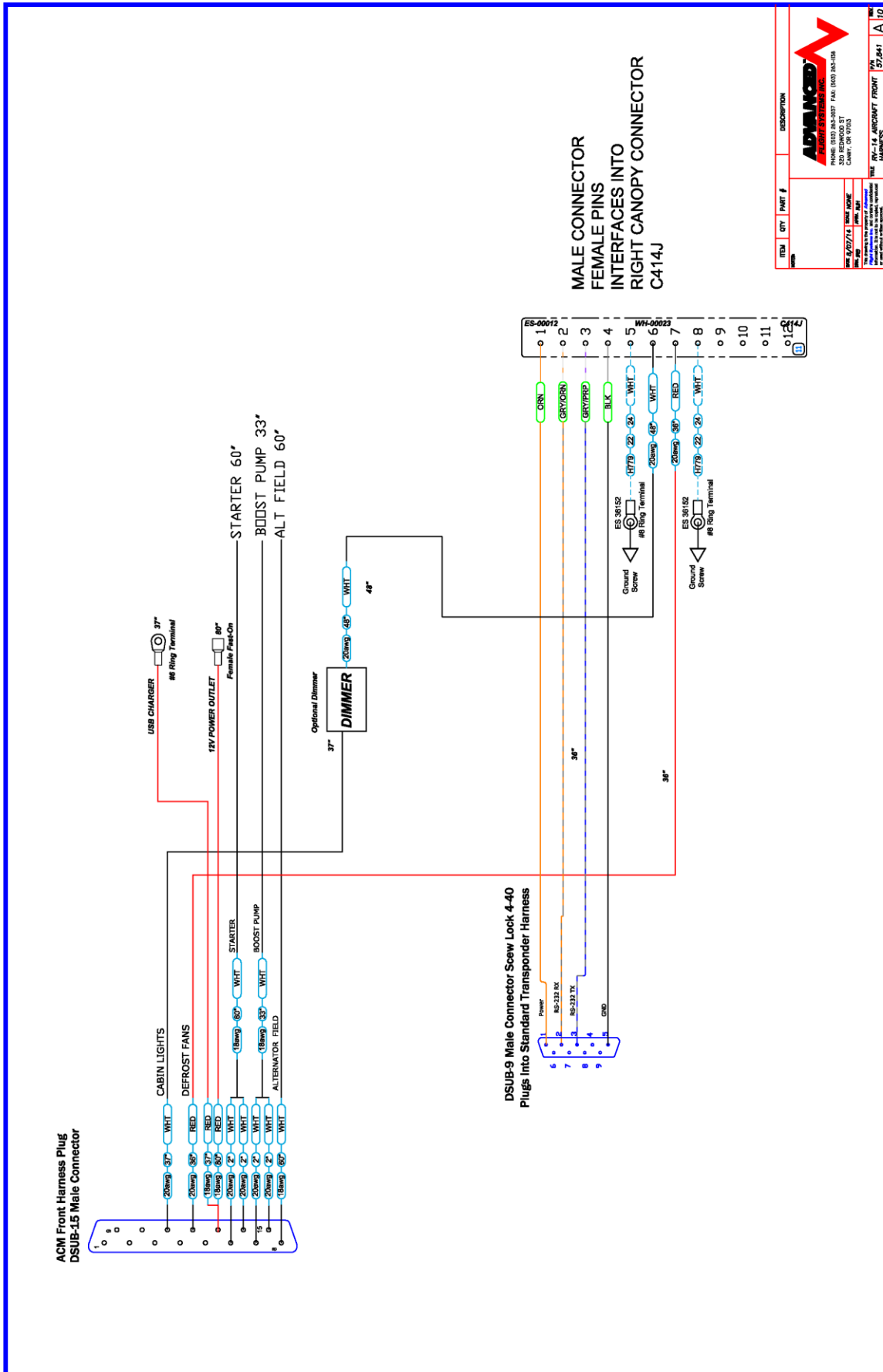
The RV-14 ADAHRS mounts in the left wing using the Van's supplied slide in mounting bracket. The Van's ADAHRS bracket has a built-in tab that will hold the ADAHRS into the slide in mounting bracket. The ADAHRS should slide into the bracket slots and not have any slop or looseness. If the ADAHRS is loose in the bracket you will need to shim the ADAHRS with UHMW tape. If you are using a dual ADAHRS system you should bolt the backup ADAHRS to the primary ADAHRS using the AFS supplied Dual ADAHRS mounting kit and instructions. When the ADAHRS is properly installed the PITOT/STATIC ports should point forward.

The ADAHRS wires are supplied in the Van's wing kit, you will need to insert the pre-wired female pins into the AFS supplied DSUB 9 female connector and connector Shell.



Complete the aircraft front wiring using the following drawing and items.

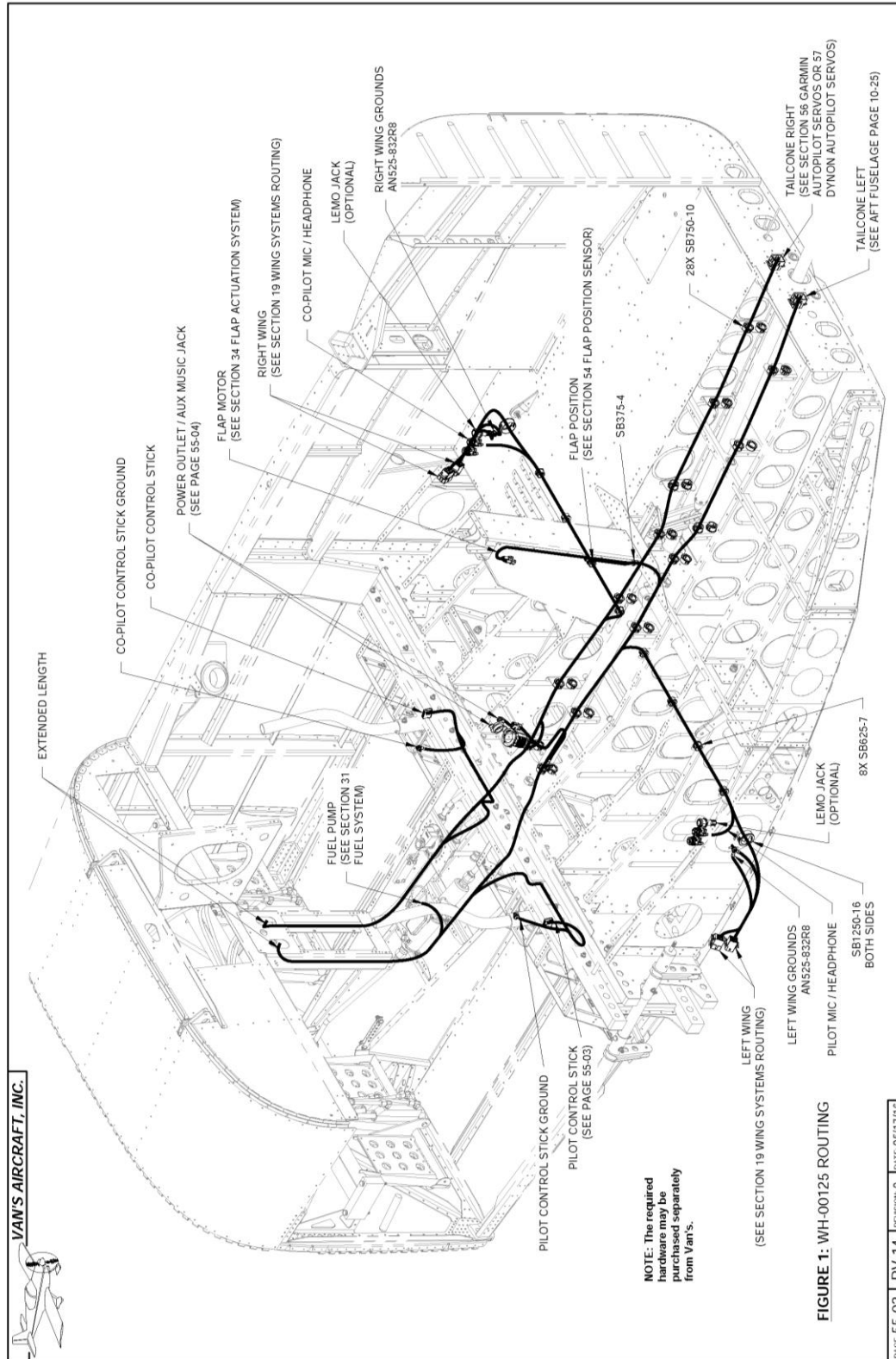




## RV-14 Airframe Harnesses (P/N: 57852)

Install the supplied RV-14 airframe harness:

P/N: 57852AFS for AF-5600 install or P/N: 57852HDX for a Skyview HDX install. Start in the middle of the fuselage and work toward the ACM connector end (Aircraft Rear, AP Servo, Flap Trim, ADAHRS SVN-Net) routing the harness using Van's instructions Section 55-02 RV-14 Harness install. You will need to use the supplied Van's airframe harness bushing kit **P/N: xxxxx**



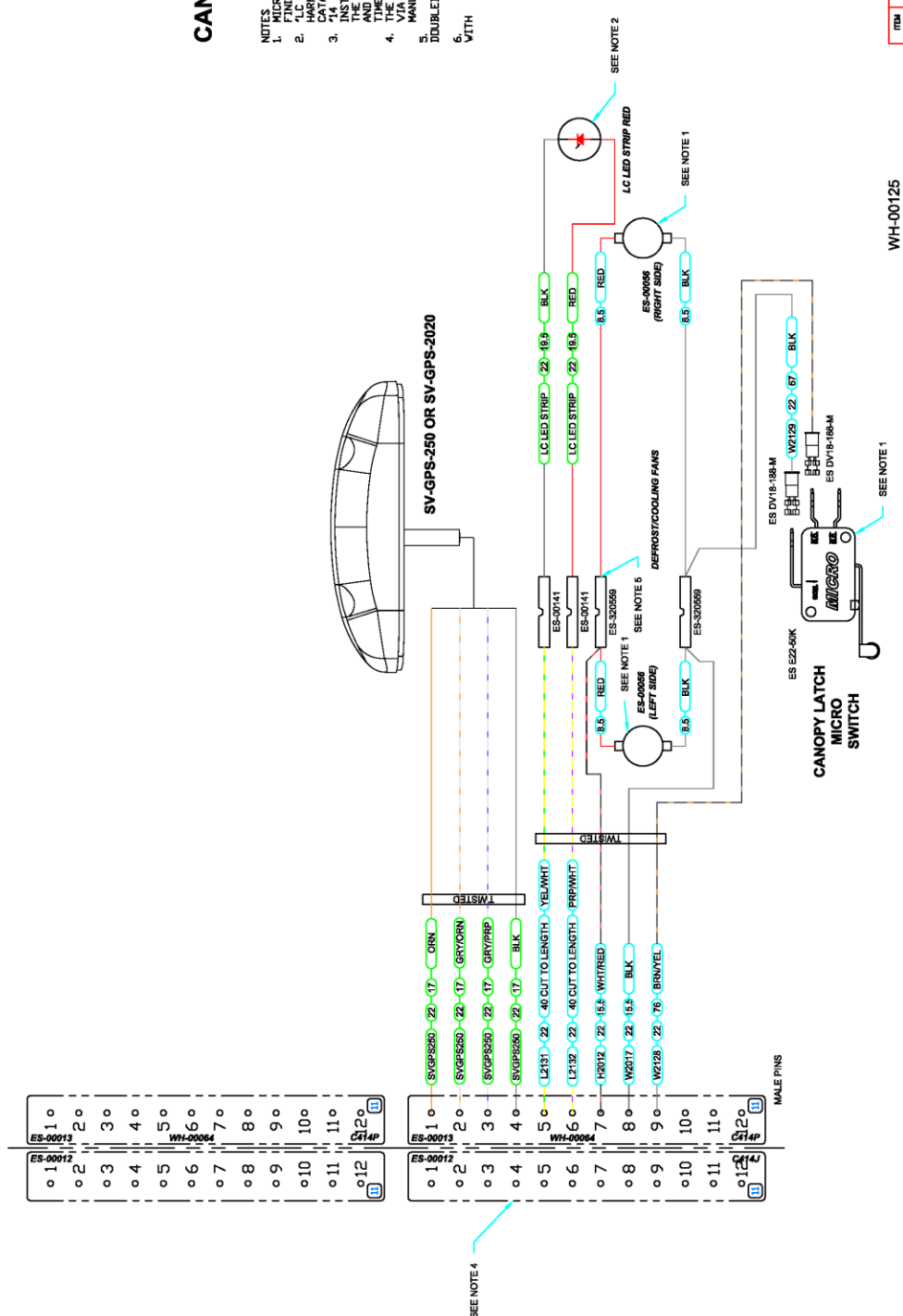


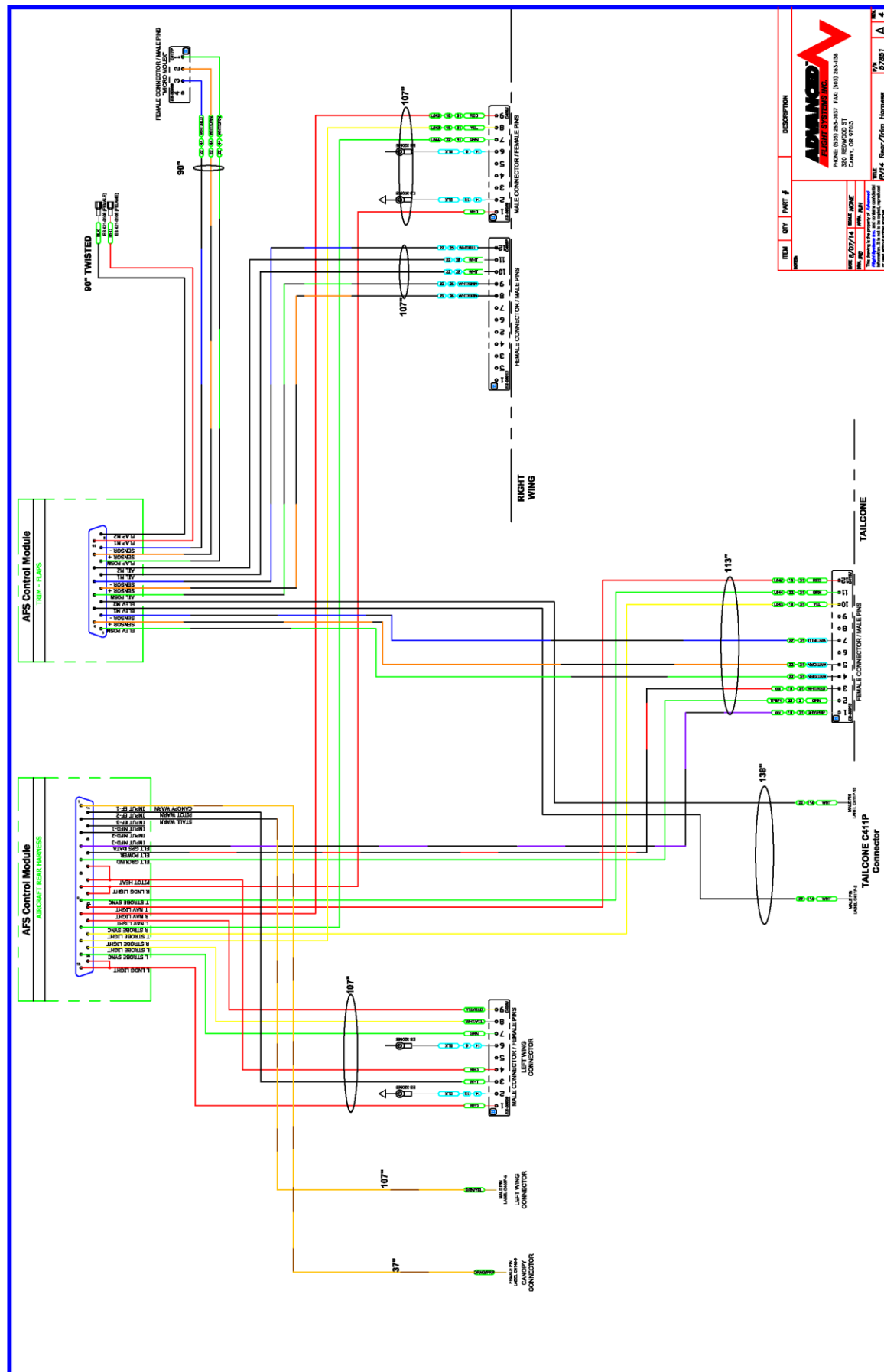


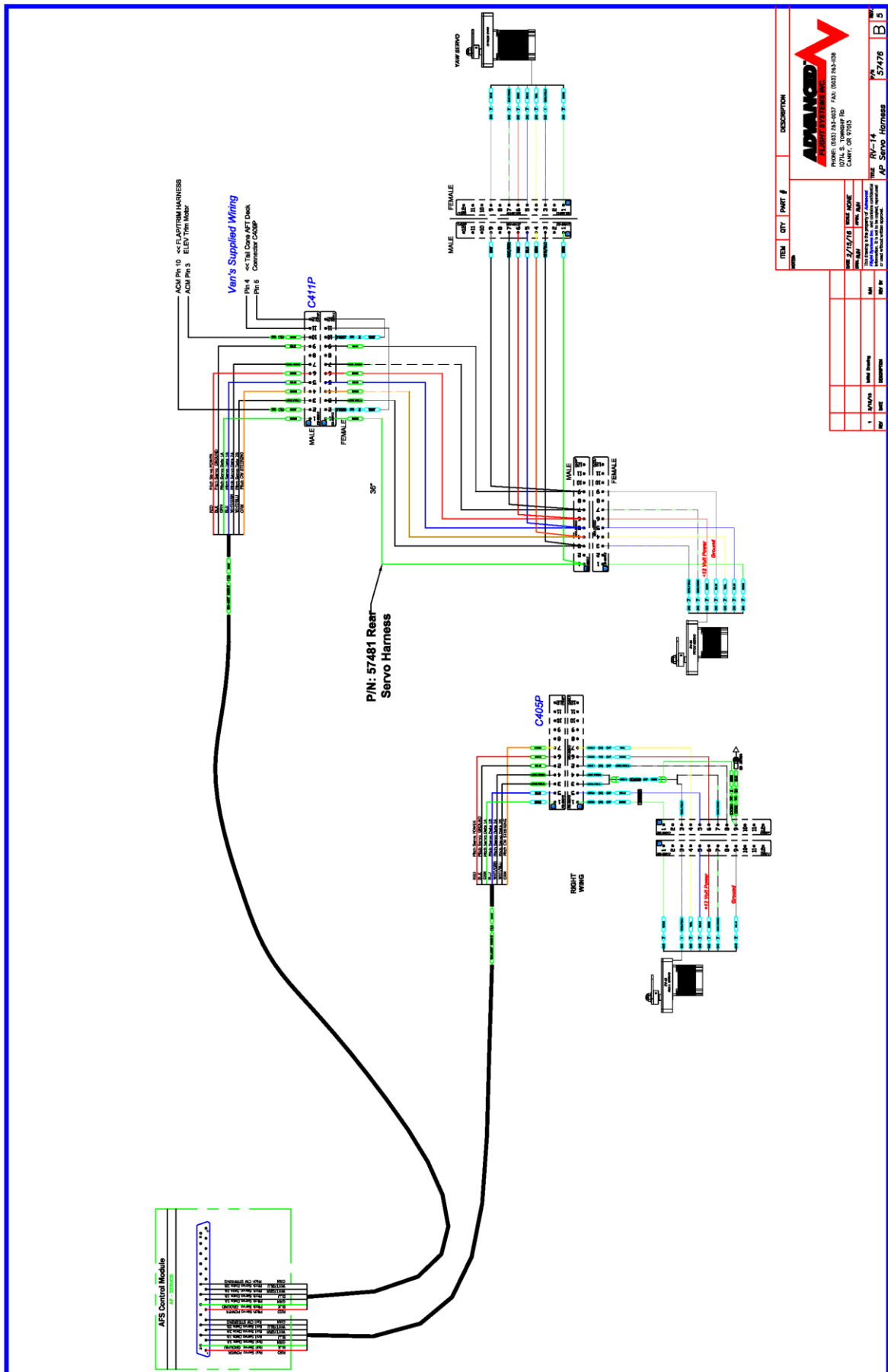
## CANOPY AFS-DYNON

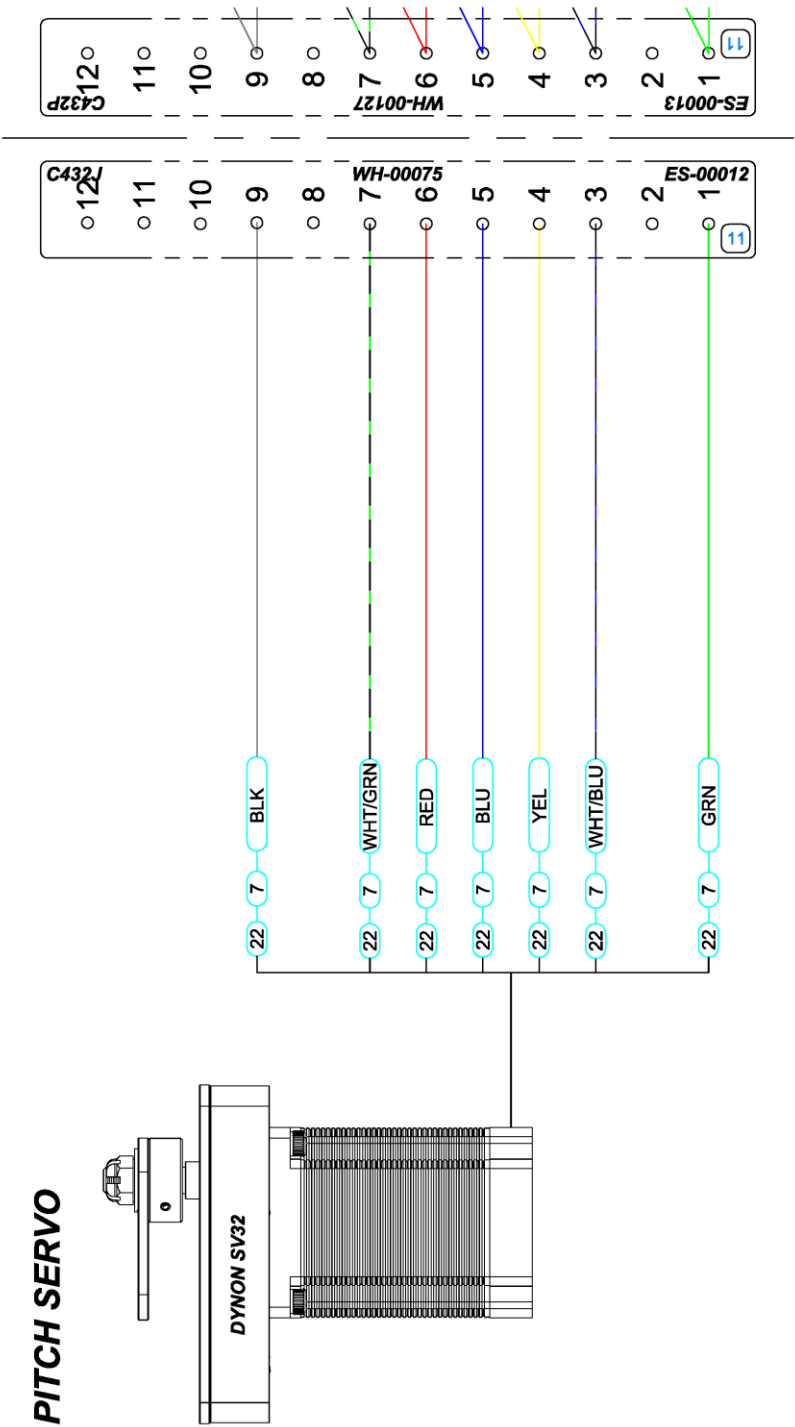
## NOTES

1. MICRO-SWITCH AND FANS ARE PROVIDED IN FINISH KIT.
2. 12 LED STRIP RECP. NOT INCLUDED WITH 12VDC POWER SUPPLY. SEE PARTS CATALOG.
3. '14 CANDY HARNES KIT' INCLUDES INSTRUCTIONS AND HARDWARE TO CONNECT THE CANDY HARNESS TO THE MICRO-SWITCH AND LED STRIP. KIT NOT AVAILABLE AT THIS TIME.
4. THE CANDY HARNESS CONNECTS TO THE EFIS MAIN HARNESS SUPPLIED BY THE EFIS MANUFACTURER.
5. THE STRIPPED VINE END MUST BE DOUBLED OVER IN THIS AREA TO ENSURE A TIGHT FIT.
6. VIZING FOR DUDON UNITS NOT SUPPLIED WITH WH-00126

[illegible]

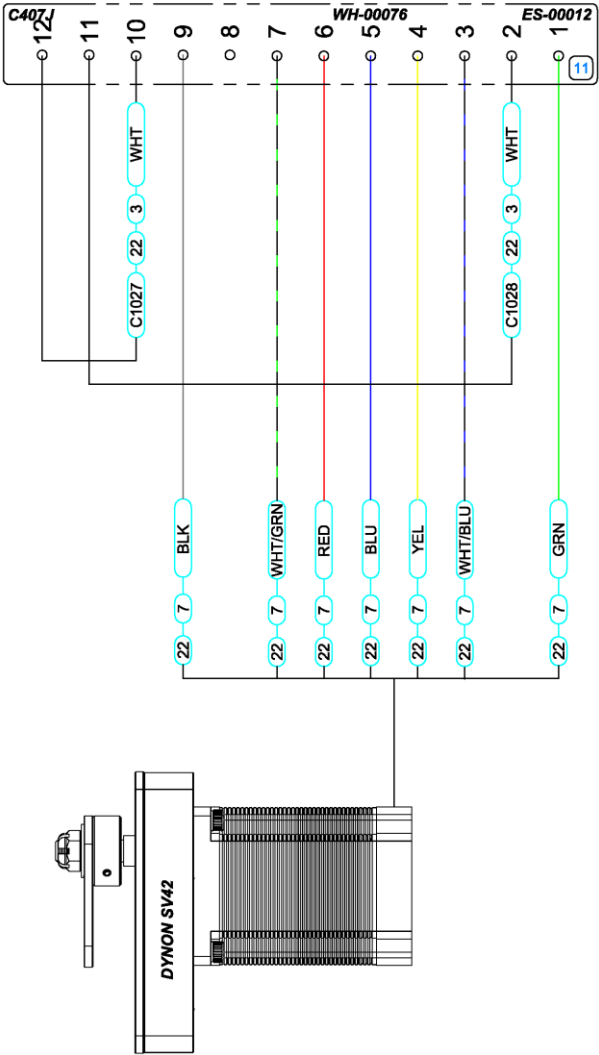






DYNON/AFS ROLL SERVO

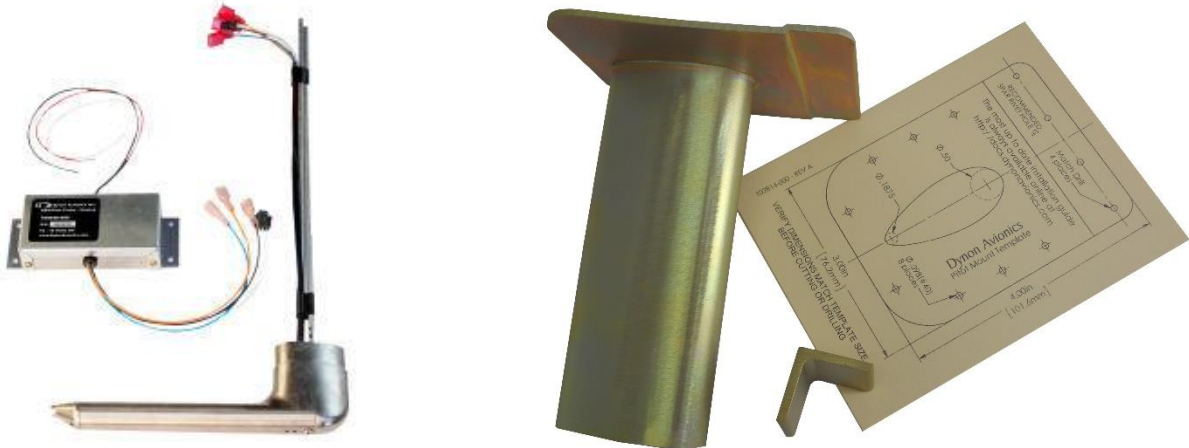
- NOTES
- 1. MOLEX PINS PROVIDED IN "14 SV AFS AP SERVO INSTALL KIT"
  - 2. CONNECTOR ES-00012 MOLEX RECEPTACLE, 12 POSITION (.083" SOCKETS) SUPPLIED IN THE WING KIT.
  - 3. PURCHASE SERVO FROM YOUR AVIONICS SUPPLIER.



## RV-14 Heated Pitot Tube

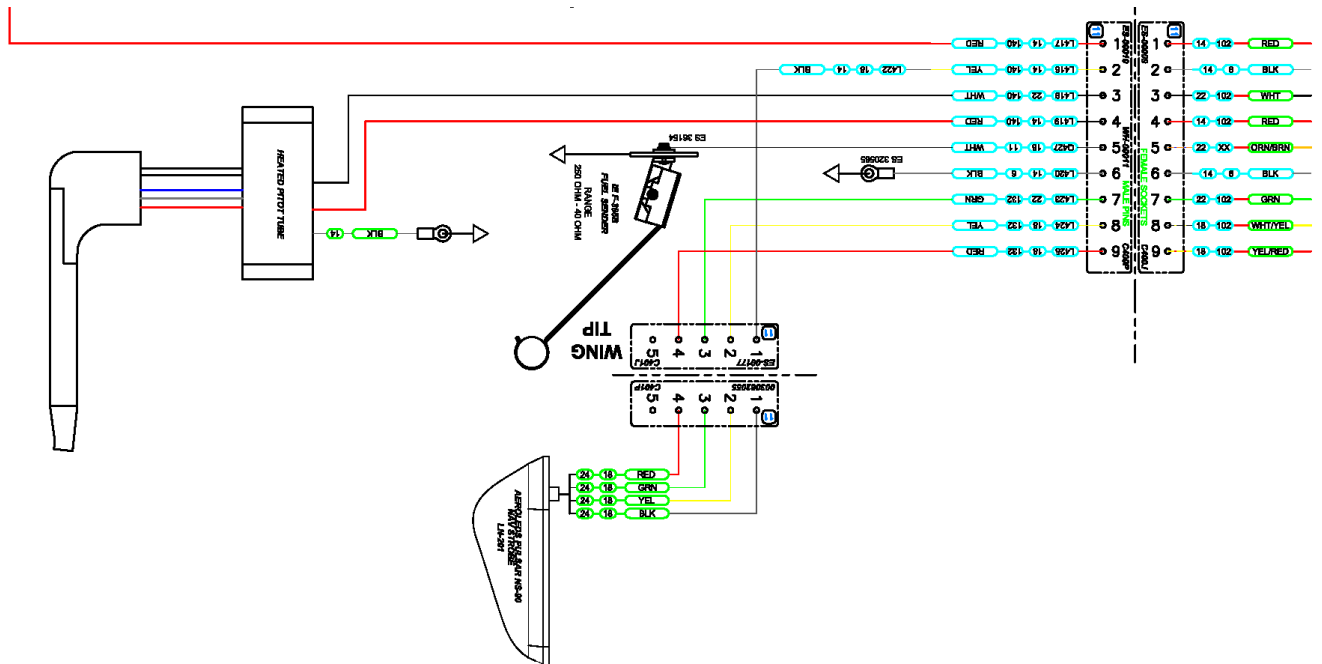
The Dynon heated pitot tube is mounted in the left wing using the Dynon Pitot Mast P/N: 102813-000

- Mount the controller box to one of the wing ribs near the pitot tube mounting location.



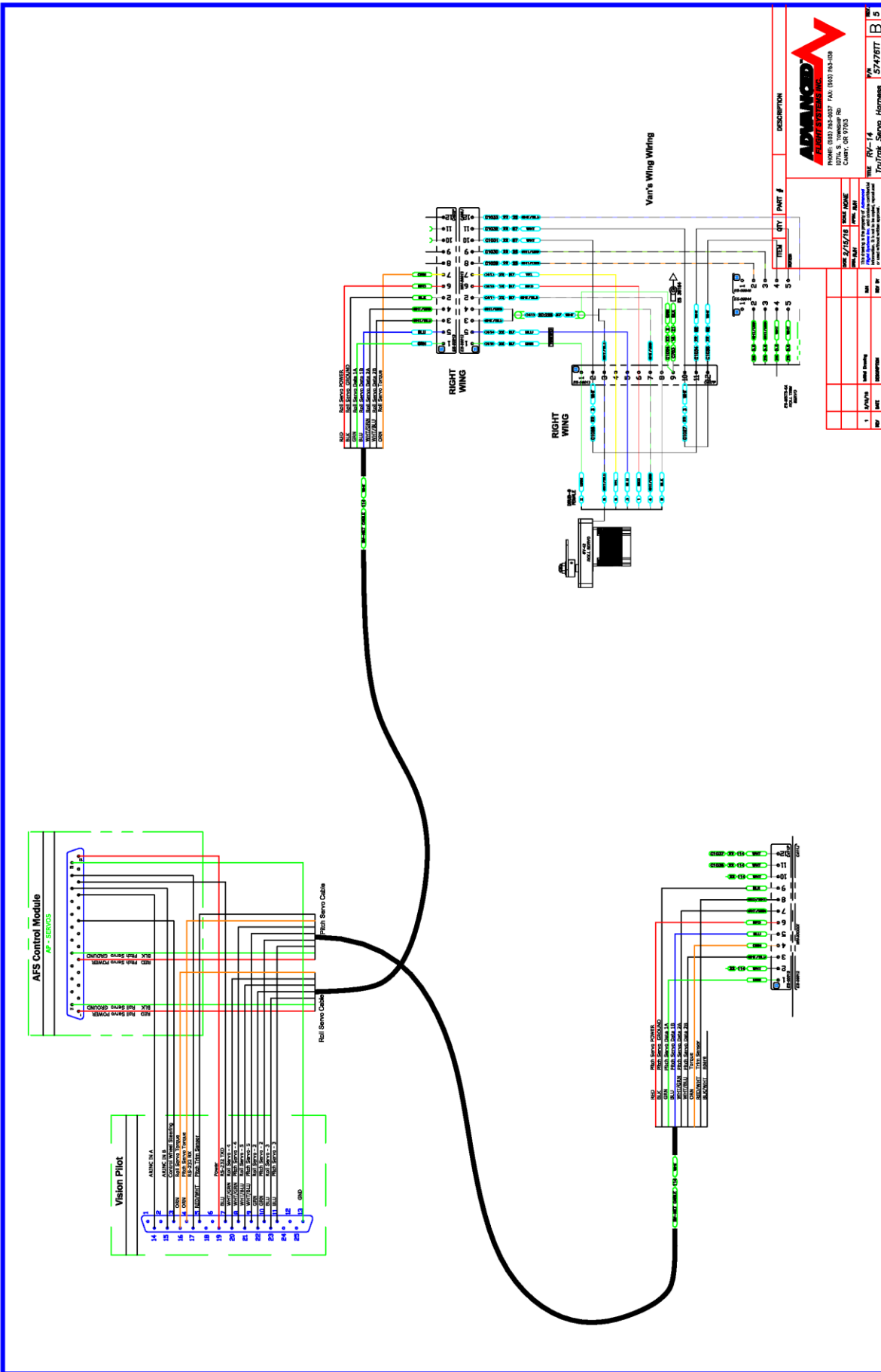
- Extend the Pitot Tube controller wires and connect to the Left Wing C400P Molex connector using the following:

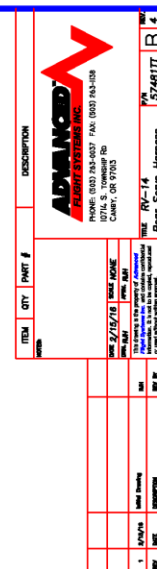
Pitot Controller	Description	Wire Size	C400P Male Pin
Red	+12V Power	#14	4
Black	Ground	#14	Locally grounded using ring terminal
White	Signal	#22	3



The Pitot line and AOA line should be connected to the Dynon ADAHRS using the Dynon Pitot/Static Plumbing Kit P/N: 102628-000





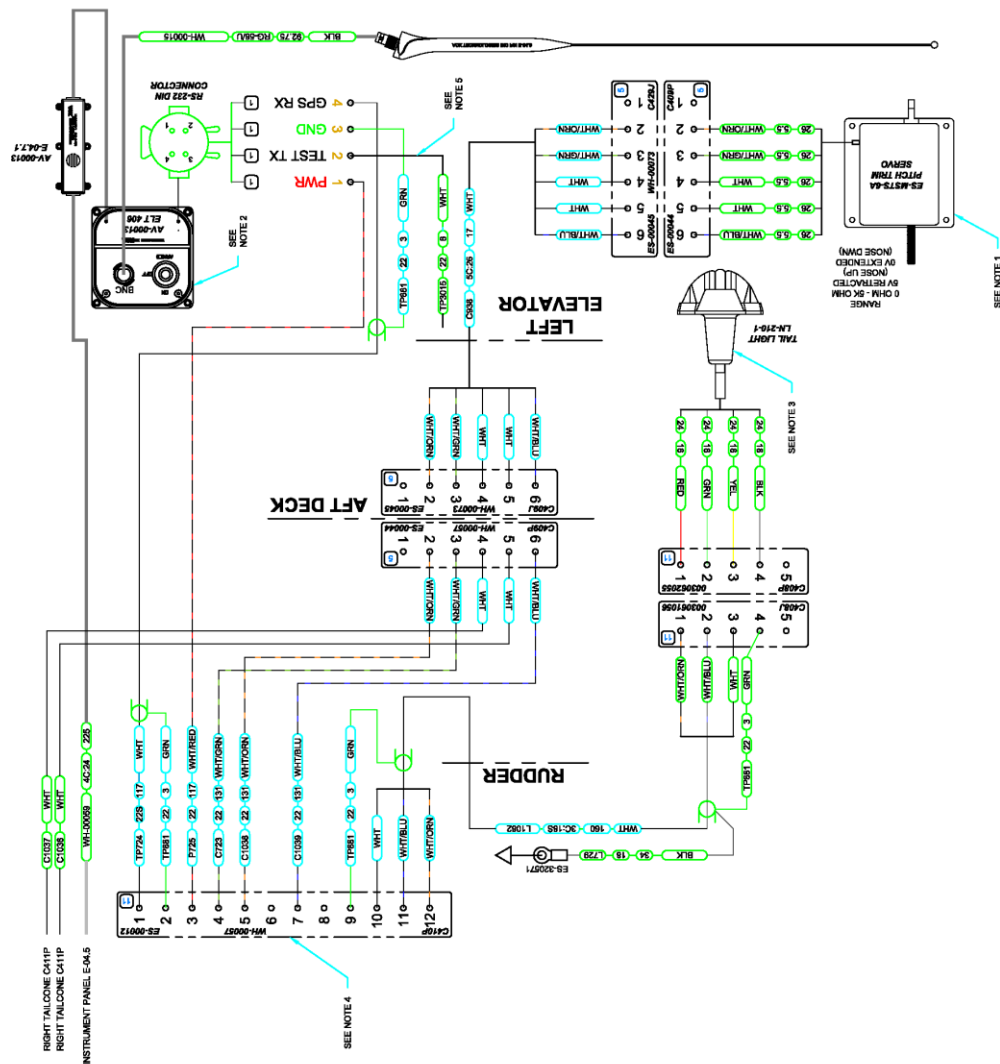


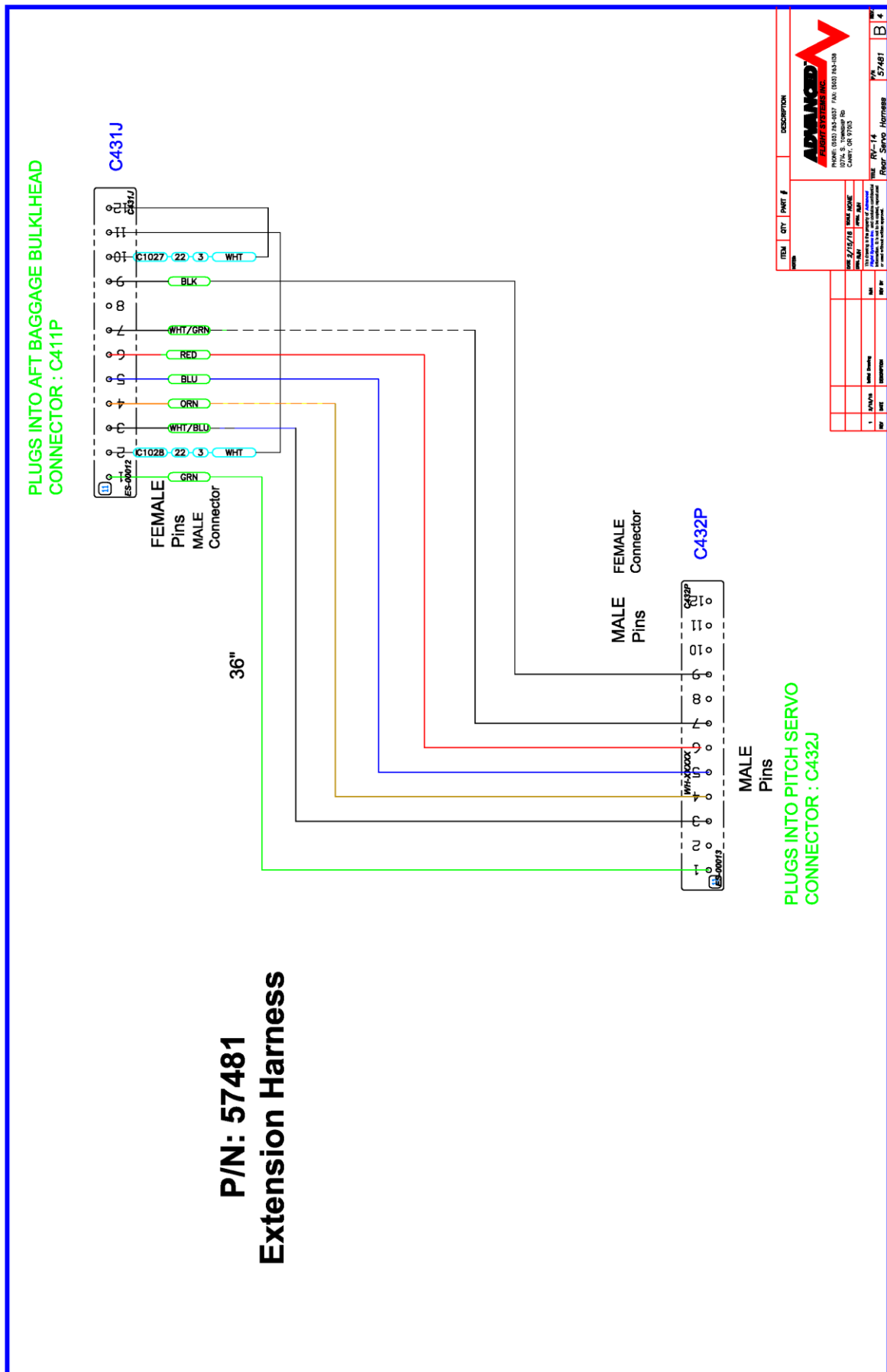


**TAILCONE LEFT**

## NOTES

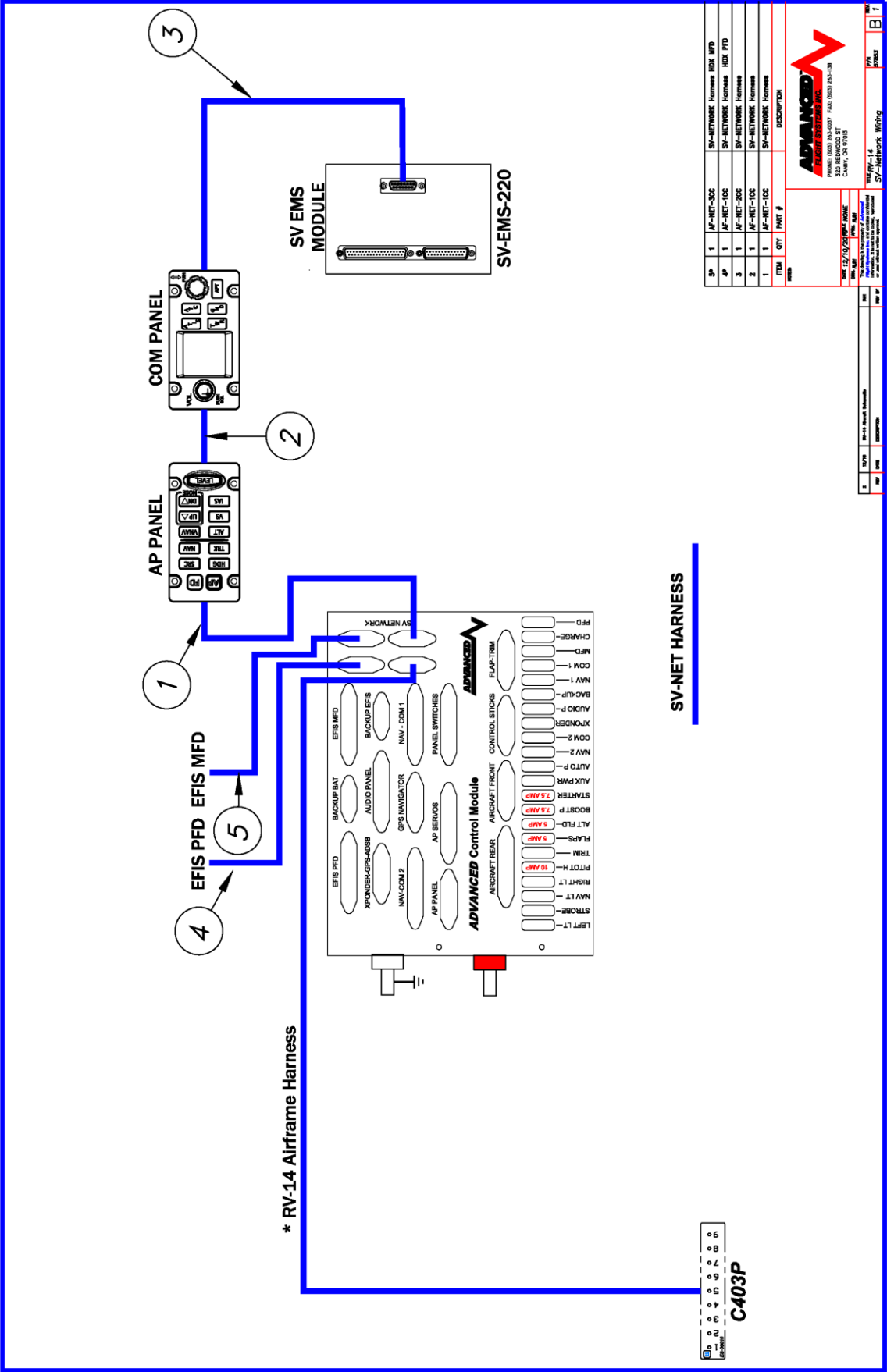
1. PITCH SERVO AND HARDWARE PROVIDED IN EMPENNAGE KIT.
2. ACK ELT IS AVAILABLE AS AN OPTIONAL "14 ELT ACK-04 KIT".
3. TAIL LIGHT IS AVAILABLE AS AN OPTIONAL "LN-TAIL LIGHT KIT".
4. WH-00057 IS SUPPLIED IN THE TAILCONE KIT.
5. WIRE SUPPLIED AND ADDED IN ELT KIT.

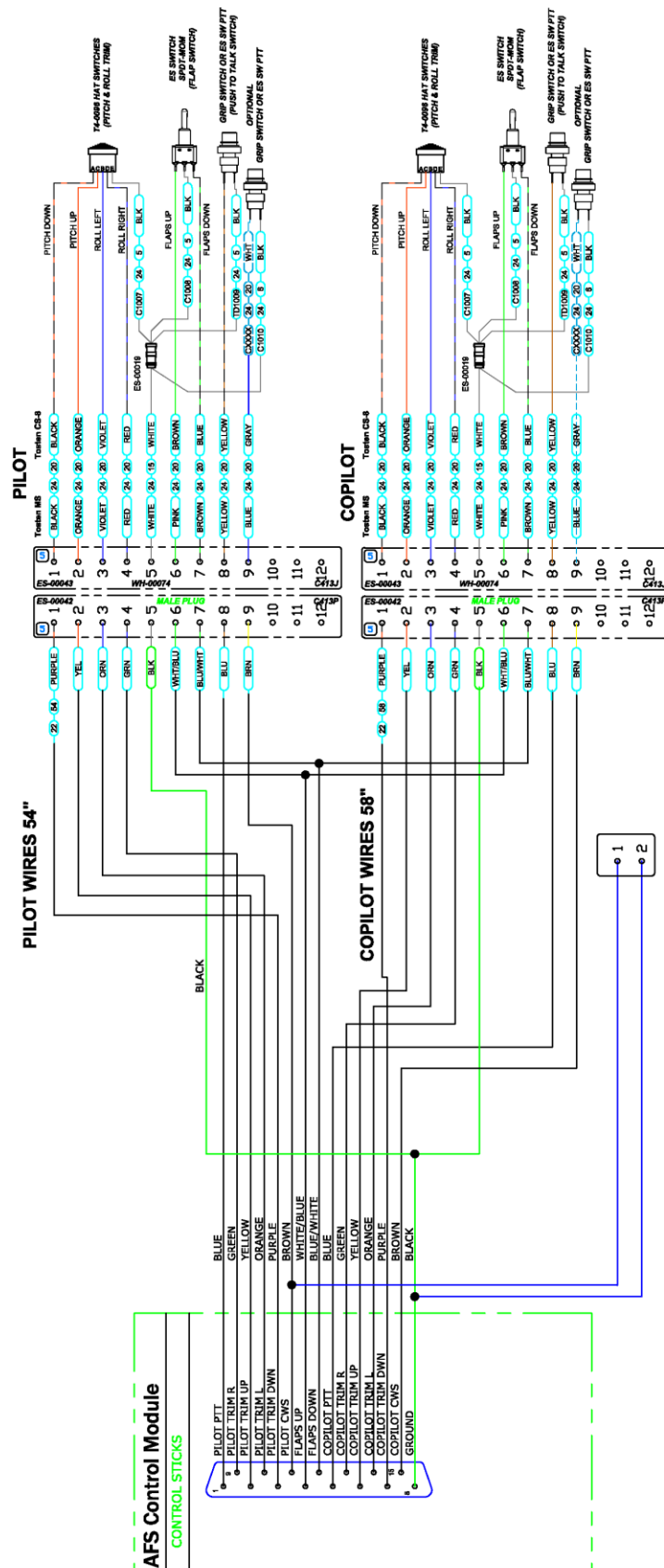




If you are installing a Skyview EFIS you will need to wire the SV-EMS input pins (9,10,11) to the RV-14 airframe harness near the ACM connectors. An AF-5600 system uses the EFIS inputs for (Canopy, Stall Tab, and Pitot Heat warning).







## Van's Supplies the MS Style Grips

ITEM				QTY	UNIT	PRICE \$	DESCRIPTION
1							
							</

## RV-14 Input Wiring and Configuration (AF-5000)

The RV-14 uses the EFIS PFD inputs to monitor the Canopy Latch, Pitot Heat and wing mounted stall tab. The inputs are wired to the ACM aircraft rear harness and can be tested in the EFIS PFD Configure Inputs page in calibration.

Instrument Calibration

Configure Inputs

BACK

INPUT 1

1. LabelCANOPY

2. UsageCANOPY

3. LogicNorm Closed

4. Timeout (mm:ss)0:00

5. Audio OFF/ON/etcABOVE 1500 RPM

INPUT 2

6. LabelPITOT

7. UsageGENERIC

8. LogicNorm Open

9. Timeout (mm:ss)0:00

10. Audio OFF/ON/etcOFF

INPUT 3

11. LabelSTALL

12. UsageGENERIC

13. LogicNorm Open

14. Timeout (mm:ss)0:00

15. Audio OFF/ON/etcON

LOCAL STATUS

EFIS 1123

☒☐☐

REMOTE STATUS

EFIS 2123

☐☐☐

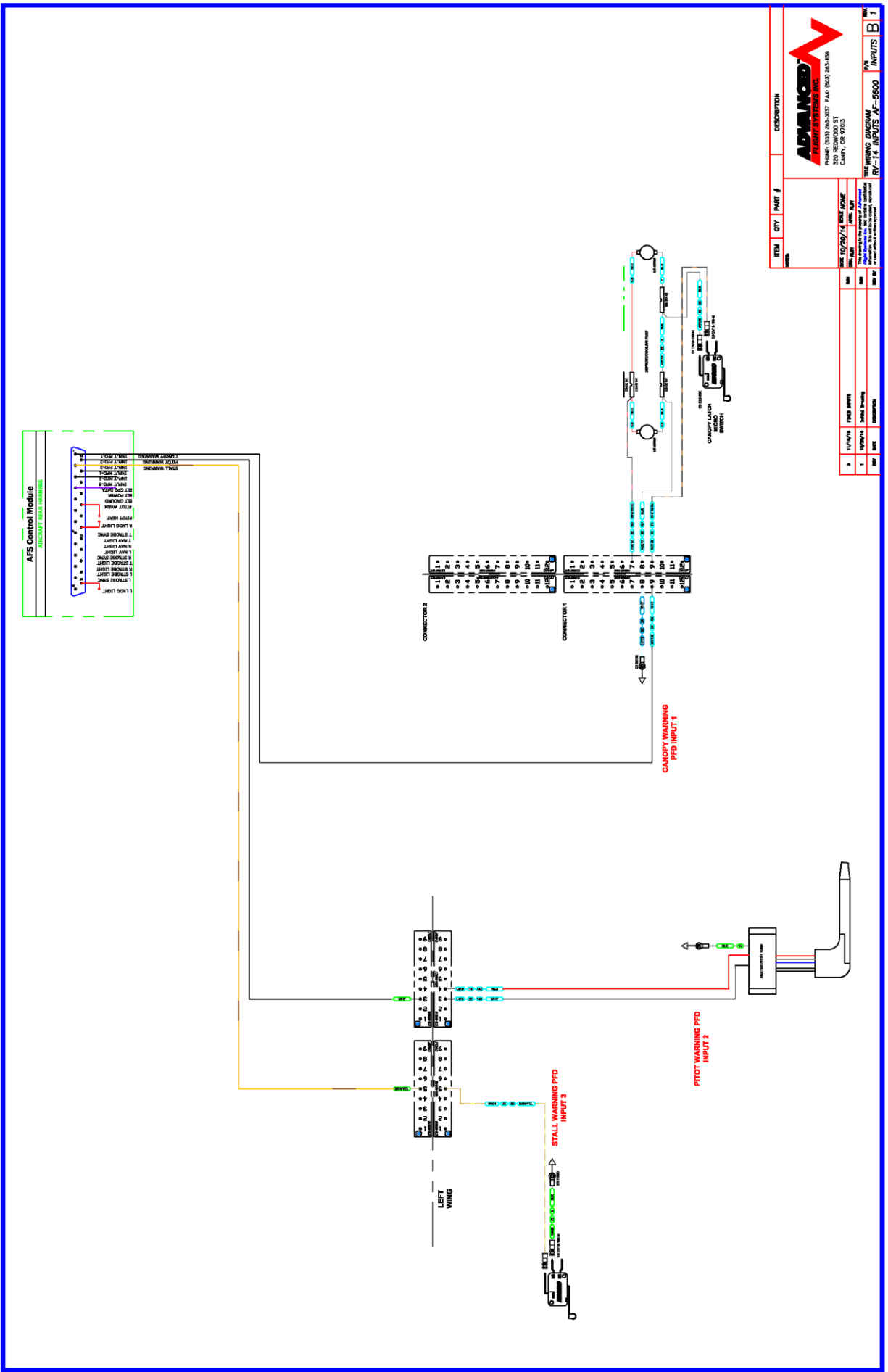
SAVE

SEL

PREV

NEXT

SEL



ITEM	QTY	PART #	DESCRIPTION
1	1	AFS-5600	AFS Control Module
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3	1	AFS-5600	AFS Control Module
4	1	AFS-5600	AFS Control Module
5	1	AFS-5600	AFS Control Module
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100	1	AFS-5600	AFS Control Module

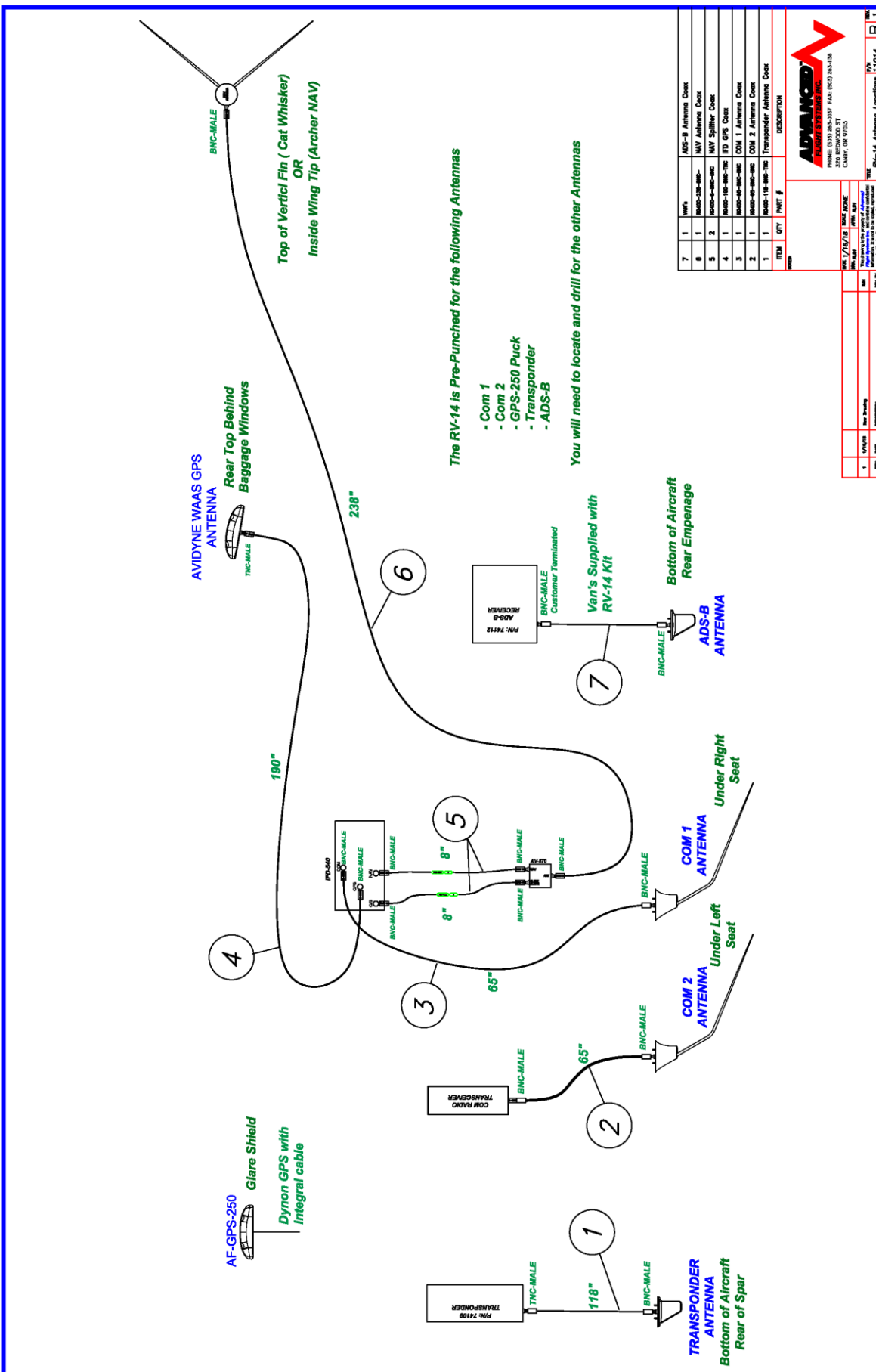
### RV-14 Input Wiring and Configuration (Skyview)

The Skyview EFIS inputs cannot be used to monitor the Canopy, Pitot Heat or Stall Tab so you will need to connect the inputs from the RV-14 airframe harness to the SV-EMS harness. The RV-14 airframe harness should have three labeled wires to connect to the same color wires in the SV-EMS harness.

Function	Pin	Color	Input #	RV-14 Connector	Pin
Canopy Latch	10	Brown/Yellow	GP6	C414J	9
Stall Tab	11	Orange	GP7	C403P	5
Pitot Warning	9	Brown/Blue	GP5	LC400J	3

Using the Skyview Inputs Configuration menu you will need to configure the inputs





# ACM Flap Control

The ACM flap control can be configured from the PFD EFIS calibration menu:

SET > CAL > 44. Flap Position

## 7. Operation Mode:

### POSITION

Flaps will stop at the programed Position Calibration points (FULL UP, POSITION 1, POSITION 2, FULL DOWN). You must have a POS-12 position sensor installed and working to use position mode. Move the flaps to each position and use the COPY and SAVE buttons to record the position. *If the AD\_VAL in the upper right hand EFIS screen corner does not change when you move the flaps you do not have the POS-12 correctly wired.*

### MOMENTARY

Flaps will only move when you hold the Flap Up or Flap Down button. Momentary mode does not require a flap sensor.



## 8. Retract Mode:

### MULTI-STEP

Flaps will move to the next position when the Flaps Up button is pressed

### CONTINUOUS

Flaps will move to fully retracted position when the Flaps Up button is pressed

### MOMENTARY

Flaps will only move when you hold the Flap Up button.

9. **Motor Polarity (NORMAL or REVERSED)** Verify that the Flaps move in the correct direction using the EFIS **CHECK > ELEC** menu buttons. If the Stick mounted buttons are backwards you will need to swap the stick Up and Down button wiring.

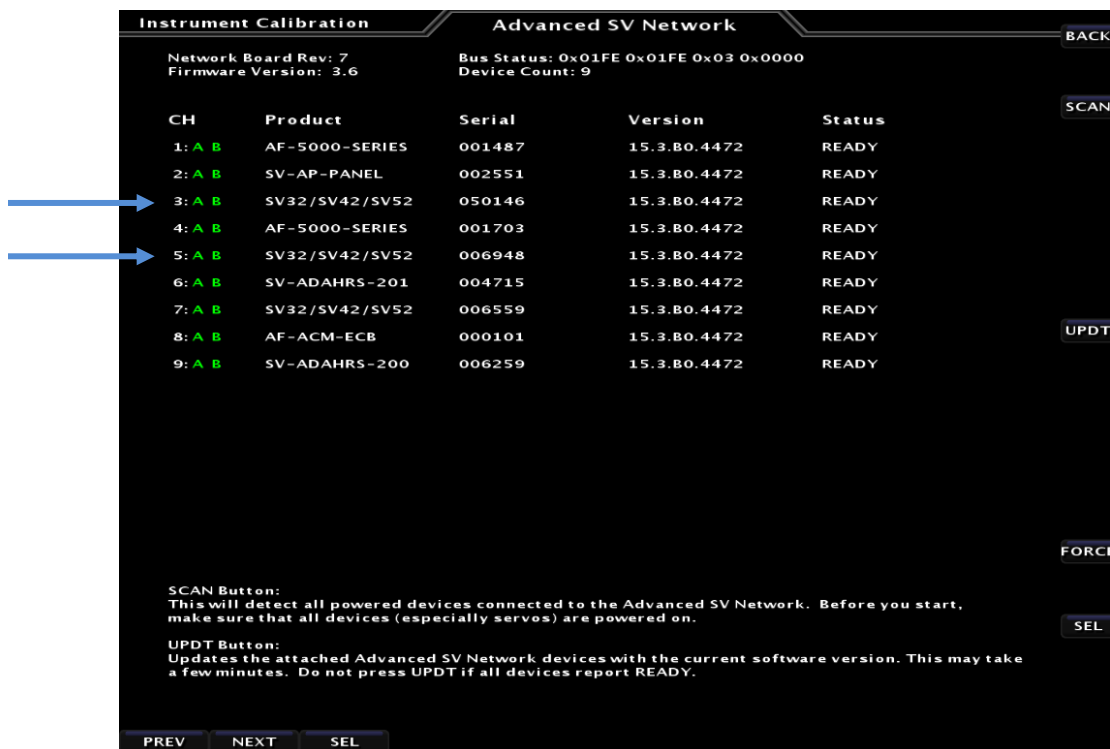


10. **Endpoint Slop Timeout** The Flap Motor will continue to run for this number of seconds to make sure the flaps are fully retracted or extended. The flap positioning system should not be used to provide an accurate position stop for full flap up or down settings.

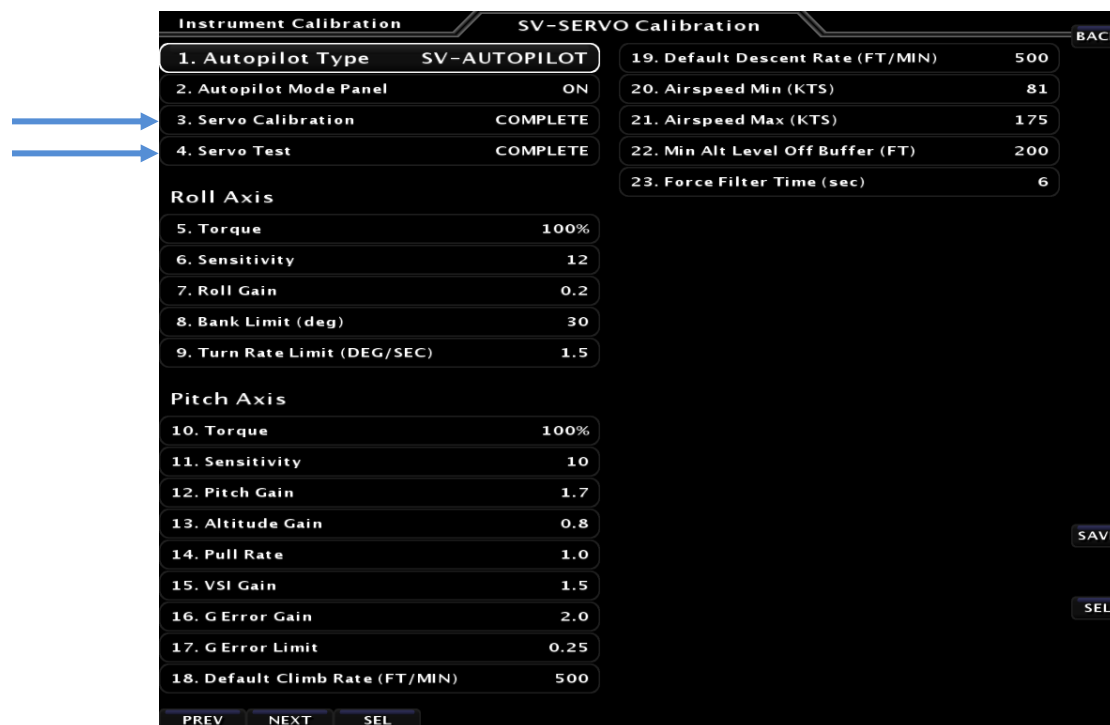
## SV Autopilot Setup

To configure the SV Autopilot you will need to do the following:

1. Verify that the ROLL and Pitch AP Servo Status is READY in the SV-NETWORK PFD EFIS Menu. If the Status shows needs update press the **UPDT** button



2. Perform the **3. Servo Calibration** and **4. Servo Test** following the PFD EFIS on screen directions. After completing these steps both items **MUST** show **COMPLETE** before the Autopilot can be used. The following settings are from a Van's RV-14 and RV-10.



# System Wiring Table

## Advanced Control Module AF-GPS Routing Table

AFS GPS	Cable Color	DSUB-9	ACM 15 Pin	ACM 25 Pin	EFIS MFD
			ACM: XPND,GPS,ADSB	ACM: MFD	AUX 15 Pin
PWR +5V	Orange	1	4	12	1
Ground	Black	5	12	24	9
RS-232 TXD	Blue/Gray	3	5	22	10
RS-232 RXD	Orange/Gray	2	13	9	2

## Advanced Control Module Skyview EFIS Audio Routing Table

Skyview PFD	Cable Color	Skyview	ACM 25 Pin	ACM 25 Pin	SV-INTERCOM
		DSUB-37	ACM: PFD	Audio Panel	DSUB-25
Audio Left	Brown	13	11	11	19
Audio Right	Gray	31	10	10	6
Audio Ground	Black	30	23	23	20

## Advanced Control Module ADS-B Routing Table

AFS ADS-B	Cable Color	DSUB-9	ACM 15 Pin	ACM 25 Pin	EFIS MFD Serial #3
			ACM: XPND,GPS,ADSB	ACM: MFD	DSUB 25 Pin
PWR +12V	Red	1	6	nc	nc
Ground		4	14	nc	nc
RS-232 TXD		3	7	21	5
RS-232 RXD		2	15	8	4

## Advanced Control Module CO Detector Routing Table

CO Guardian	Cable Color	CO	ACM 9 Pin	ACM 25 Pin	EFIS MFD Serial #2
		DSUB-9	ACM: BACKUP EFIS	ACM: MFD	DSUB 25 Pin
PWR +12V	Red	1	5	nc	nc
Ground	Black	5	9	nc	nc
RS-232 TXD >>		7	3	20	25
RS-232 RXD <<		8	8	7	13

## Registration Information

To receive important notification of Service Bulletins, and service difficulty reports, please EMAIL the following information to:

[Info@Advanced-Flight-Systems.com](mailto:Info@Advanced-Flight-Systems.com)

Or Mail to:

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State: \_\_\_\_\_ Postal Code ZIP: \_\_\_\_\_

Country: \_\_\_\_\_

Home telephone: \_\_\_\_\_

Business Telephone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Aircraft Model and N#: \_\_\_\_\_

Engine Model : \_\_\_\_\_

System Model #: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Installer: \_\_\_\_\_