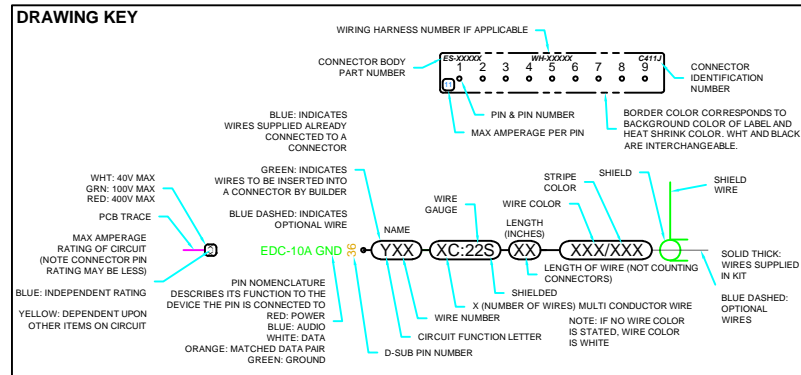


CIRCUIT LETTER FUNCTION	
LETTER	CIRCUITS
C	CONTROL SURFACE
D	INSTRUMENT
E	ENGINE INSTRUMENT
F	FLIGHT INSTRUMENTS
H	HEATING VENTILATING
J	IGNITION
K	ENGINE CONTROL
L	LIGHTING
P	POWER CONTROL
Q	FUEL
R	RADIO
RZ	HEADPHONE
T	SPECIAL ELECTRONIC
TC	RADIO CONTROL
TD	AIRBORNE ANNOUNCING
TP	BEACON
TQ	TRANSMITTER RECEIVER
W	WARNING EMERGENCY



WIRE HARNESS NOTES

- USE M22759/16 OR M27500 TEFZEL AIRCRAFT WIRE. CONTACT VAN'S ABOUT USING OTHER EQUIV.
- USE MIL-I-23053 HEATSHRINK. CONTACT VAN'S ABOUT USING OTHER EQUIV.
- LABEL THE FLYING LEAD OF EACH WIRE WITH THE TRUNCATED NOMENCLATURE AND WIRE NUMBER.
- CONNECT ALL 20-24 AWG WIRES TO D-SUBS USING ES-SA-1017 SOCKETS OR ES-SA-1018 PINS. PERMISSIBLE TO STRIP 18 AWG WIRE TO FIT ES-SA-1017 SOCKETS OR ES-SA-1018 PINS. ALL CRIMPS TO BE MADE PER MIL-C-22520F (1.2.2) USING A TYPE 1 TOOL.
- USE ONLY NOR-COMP BACKSHELLS ON D-SUB CONNECTORS (WITH THE EXCEPTION OF 50-PIN CONNECTORS)
- HARNESS MUST BE TESTED WITH ALL AVIONICS IN ACCORDANCE WITH THE "ELECTRICAL SYSTEM BENCH TEST PROCEDURE". RESULTS ARE TO BE SUPPLIED TO VAN'S FOR EACH HARNESS.
- CRIMPED MOLEX, TYCO, AND AMP TERMINALS ARE TO BE CRIMPED WITH THE MANUFACTURER'S RECOMMENDED CRIMPING TOOL.
- CRIMPED TERMINALS ARE TO BE INDIVIDUALLY PULL TESTED.
- DO NOT COVER WIRES WITH WIRE NET.
- HARNESSES ARE TO BE BUNDLED WITH LACING CHORD, WITH THE EXCEPTION OF BLUE TIE-WRAPS USED AT BULKHEAD STATIONS.
- ALL 3 CONDUCTOR JACKETED NON-SHIELDED WIRE MAY BE REPLACED WITH TWISTED WIRES OF THE SAME AWG SIZE AND THE SAME WIRE COLOR.
- ADJUST SOLDER SPLICE / RING TERMINAL SIZE AS REQUIRED TO ACCOMMODATE DESIRED WIRE GAUGE(S). MAINTAIN RING TERMINAL STUD/TAB SIZE.

ELECTRICAL SYSTEM BENCH TEST PROCEDURE

Avionics Group

1. ___ Check PFD & MFD Power On
2. ___ SkyView Check PFD and MFD recognize a USB stick
3. ___ Install latest software and settings per the readme files (applicable portions) on the Van's Web Site
 - a. ___ Setup X Pndr Hex Code
 - b. ___ Setup AP servos if installed
4. ___ Check PFD & MFD recognize all LRU's
5. ___ Check X pndr will transmit.
6. ___ Check COM turns on.
7. ___ Check PFD recognizes COM, and can push frequencies to COM radio
8. ___ Check Backup Battery Function PFD
9. ___ If installed check AP Control Head function (knobs function for SkyView as well)

Audio Group

1. ___ Configure COM radio in accordance with "GTR 200B Internal Presets" or "Trig TY96 Internal Presets"
2. ___ Check Pilot Headset Jack
3. ___ Check Pilot Mic Jack for Xmit
4. ___ Check Co-Pilot Headset Jack
5. ___ Check Co-Pilot Mic Jack for Xmit
6. ___ If installed check XM music output to headset.

Cockpit Group

NOTE: If customer has selected the pre-wired stick option then use their control sticks

1. ___ Check Pilot TX Button
2. ___ Check Pilot Trim Buttons (Both Directions)
 - a. ___ Verify proper trim direction movement on screen indicator and servo with input
3. ___ Check Co-Pilot TX Button
4. ___ Check Co-Pilot Trim Buttons (Both Directions)
 - a. ___ Verify proper trim direction movement on screen indicator and servo with input
5. ___ Check function of AP disconnect switch near throttle.
6. ___ Check Pilot AP Disconnect Switch
7. ___ Check Co-Pilot AP Disconnect Switch
8. ___ Check Pilot COM Freq Swap
9. ___ Check Co-Pilot Freq Swap
10. ___ Check Dimmer (Note PCB portion will be checked during AV-60000 Check)
 - a. ___ Turn on all switches. Check that all lighted switches lights turn on and dim. (Ignore wires going to cabin light.)
11. ___ Check canopy latch switch
12. ___ Check flap motor function both directions
13. ___ Check for power output at USB connectors / Power Outlet

Wing Group

1. ___ Check Stall Warning
2. ___ Check NAV/Strobe Lights
3. ___ Check Landing Lights (Both if applicable)
4. ___ Check Wig Wag Function

iS Engine Group

1. ___ Check Master Relay Switch grounds out wire going to master relay
2. ___ Check Key switch connects HIC connector start pins
3. ___ Check spar pin light comes on when spar pin switches are not grounded.
4. ___ Check emergency switch provides power to Power X3 connector Pin 3
5. ___ Check Emergency Li Bat Warn Wire turns on warning in EFIS when grounded. (NOTE Check this error)
6. ___ Check fuel pump A and B switches for function

REVISIONS			
REV	DESCRIPTION	DATE	APPROVEI
R0	INITIAL RELEASE	10/24/18	TDM
R1	ADDED TEST PROC AND NEW WING WIRES	11/7/18	TDM
R2	ADDED TRIG TY96	12/01/18	TDM
R3	CHANGED GTR 200 TO 200B, ADDED PTT, GEN B TERM. CHANGED TO ES 35110	01/29/19	TDM
R4	E6023 WIRES CROSSED AT HIC TO NEGATE AV-60009 PCB ERROR: WHT NOW LO & WHT/BLU NOW HI, ADDED OPTIONAL CO DETECTOR, TY96 CONNECTOR NOW ES-00060, ADDED NOTE FOR TY96 UNUSED PINS, ON F6262 & Q6300 ES 31880 WAS ES 36152, Q6300 27 WAS 40, ADDED CABIN LIGHT DIMMER, DELETE L6029, NUMEROUS CORRECTIONS	11/08/19	BPM
R5	CHANGED CO DETECTOR WIRING, ADDED WH-00144	01/06/20	BPM
R6	CORRECTED CABIN LIGHT TO OPTIONAL, CO DETECTOR WIRE COLORS TO M27500 STD	02/14/20	BPM
R7	REPLACED FUEL PRESSURE SENSOR P4055-75G with ES-103757-000	05/07/20	RMS
R8	RENUMBERED WHITE/ORANGE WIRE FROM MASTER RELAY, ES 24115, TO IGNITION MODULE FROM K6284 TO K6350, CORRECTED "ES-205203-3" TO "ES-00321" ON PILOT/COPILOT STICK GRIPS; C6351 WAS C6286, CHANGED WHT/BLK TO BLK ON PIN 6 OF WH-P30-1 CONNECTOR INTO AV-60000 POWER MODULE	06/30/20	RMS
R9	REPLACED P155 WITH P158 ADDED BACKSHELL TO PILOT/COPILOT	10/21/20	SEO

GTR 200B INTERNAL PRESETS

***MENU* BUTTON OPTIONS**

- MUSIC VOL 75%
- ICS VOL 80%
- ICS SQLCH AUTO
- COM MUTE ON
- COM MUTE ICS OFF
- ICS MUTE MUSIC OFF
- MUTE LEVEL FULL
- COM 3D ON
- ICS 3D ON
- COCKPIT NOISE NORMAL
- MUSIC BASE BOOST OFF
- MUSIC EQ OFF
- KEY BEEP VOL 50%
- CONTRAST +0

INTERNAL MENU SETTINGS

- SIDETONE 05
- MIC GAIN 05
- RF SQLCH 00
- MON SWAP ON
- INTERCOM ENABLE YES
- RECIEVE OUT GAIN 100%
- AUX 1 SQLCH 30%
- AUX 1 VOL 50%
- AUX 1 MUTE NO
- AUX 2 SQLCH 30%
- AUX 2 VOL 50%
- AUX 2 MUTE NO
- PILOT RT NO

SOFTKEY SETUP

- 1 USER LISTS
- 2 TUNE EMERGENCY

DISCRETE SETUP

- 1 FREQ SWAP
- 2 DISABLED

LIGHTING SOURCE 14V

GTR 200B PRESET NOTES:

- ALL SETTINGS NOT DEFINED BY THIS DRAWING ARE ACCEPTABLE AS CONFIGURED FROM MANUFACTURER.
- THE ABOVE SETTINGS CORRESPOND TO SOFTWARE SYS 2.60.

TRIG TY96 INTERNAL PRESETS

INTERCOM VOLUME:

AUX IN VOLUME:

MUSIC IN VOLUME:

SIDETONE VOLUME:

INTERCOM SQLCH:

MIC 1 GAIN:

MIC 2 GAIN:

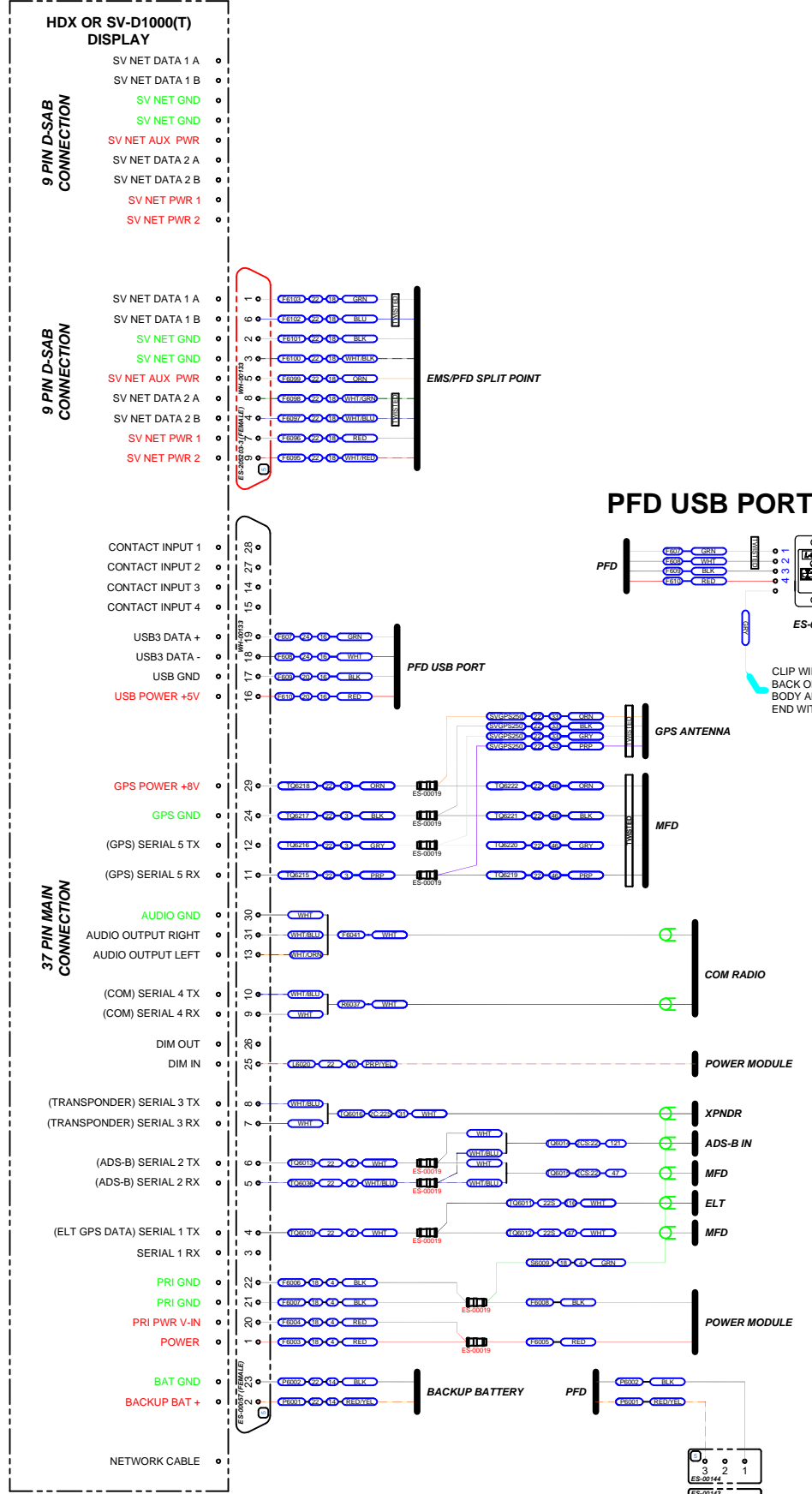
RADIO SQLCH:

TY96 PRESET NOTES:

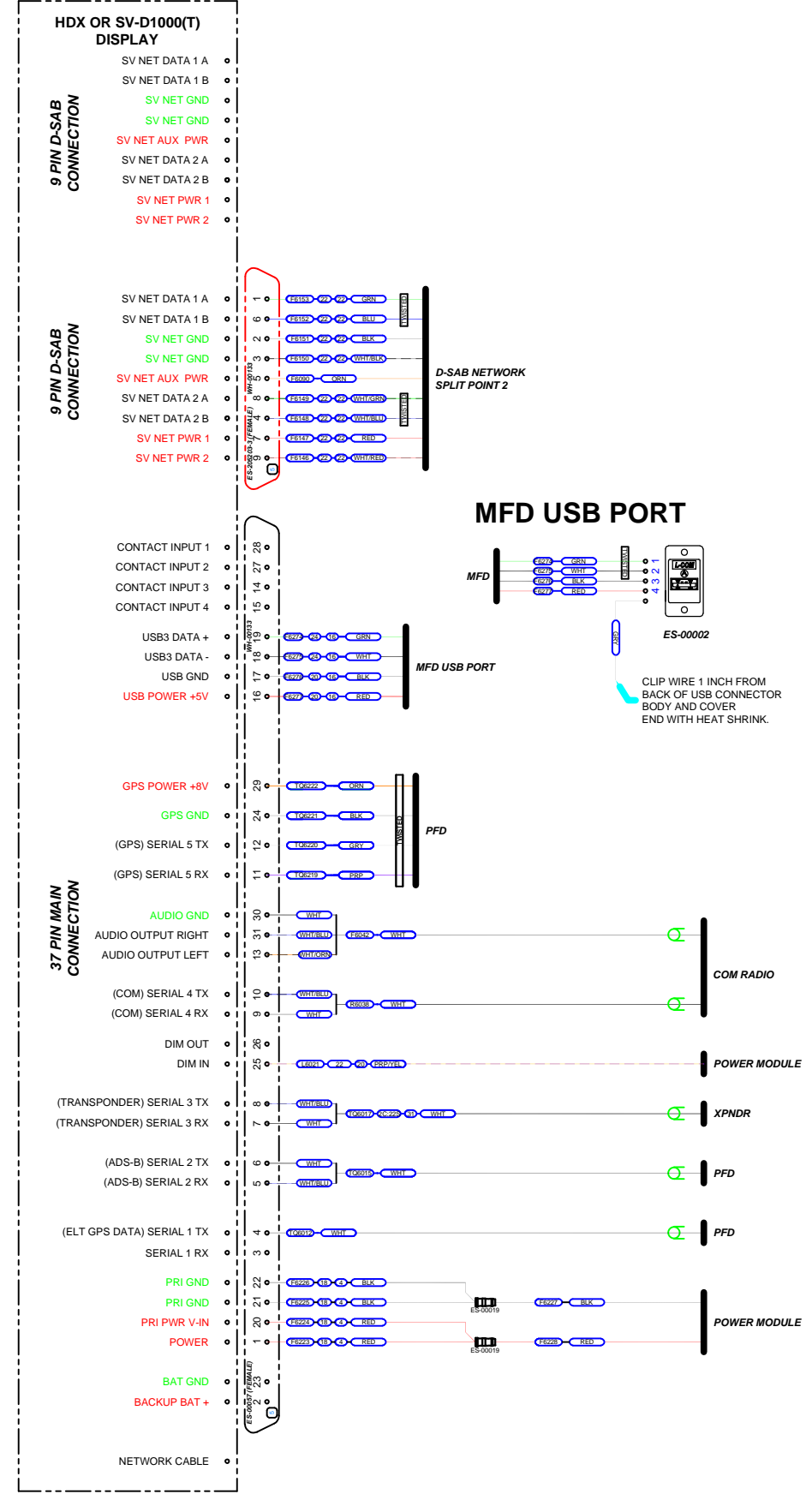
- SET FREQUENCY STEP SIZE APPROPRIATE FOR REGION.
- ALL SETTINGS NOT DEFINED BY THIS DRAWING ARE ACCEPTABLE AS CONFIGURED FROM MANUFACTURER.

	VAN'S AIRCRAFT, INC.		14401 NE KEIL RD. NI AURORA, OR 97002 USA
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM		
DATE DRAWN: 06/11/18	UNITS: INCHES	WH-00133	
DRAWN BY: RIAN JOHNSON TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	SCALE: NONE	PAGE: 1 OF 11	
<small>DATELEN ENAME: C:\RV_17\Systems\RE\Electrical System\912iS SkyView\WH-00133.DWG</small>			<small>C-S17F ORIGINAL</small>

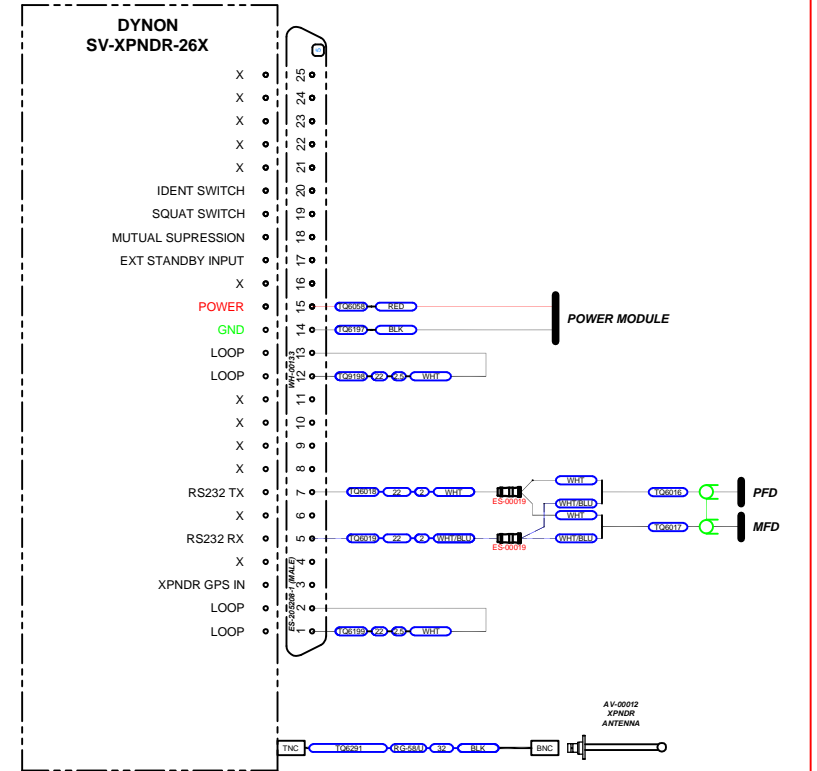
PFD



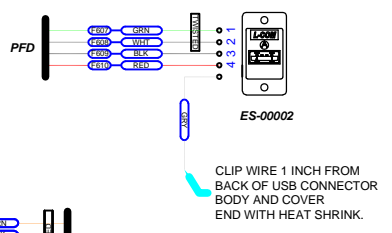
MFD



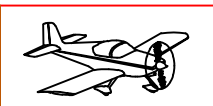
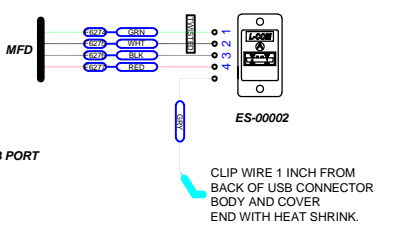
XPNDR



PFD USB PORT



MFD USB PORT



VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA

ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM

DATE DRAWN: 06/11/18

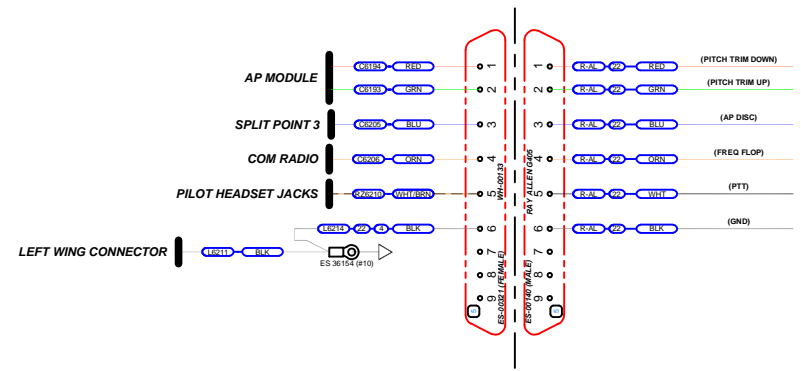
DRAWN BY: RIAN JOHNSON

TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)

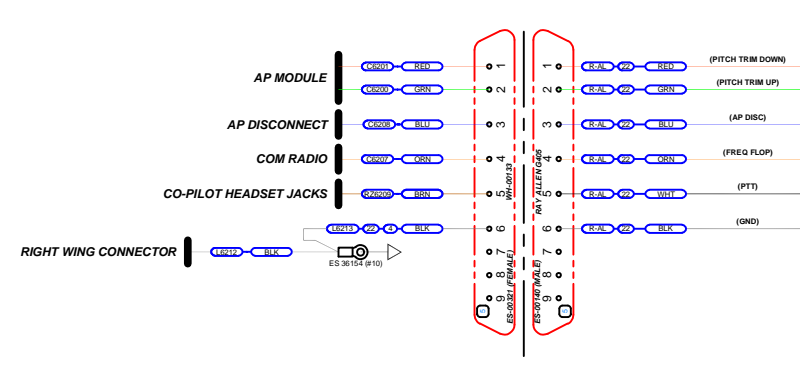
UNITS: INCHES WH-00133

SCALE: NONE PAGE: 2 OF 11

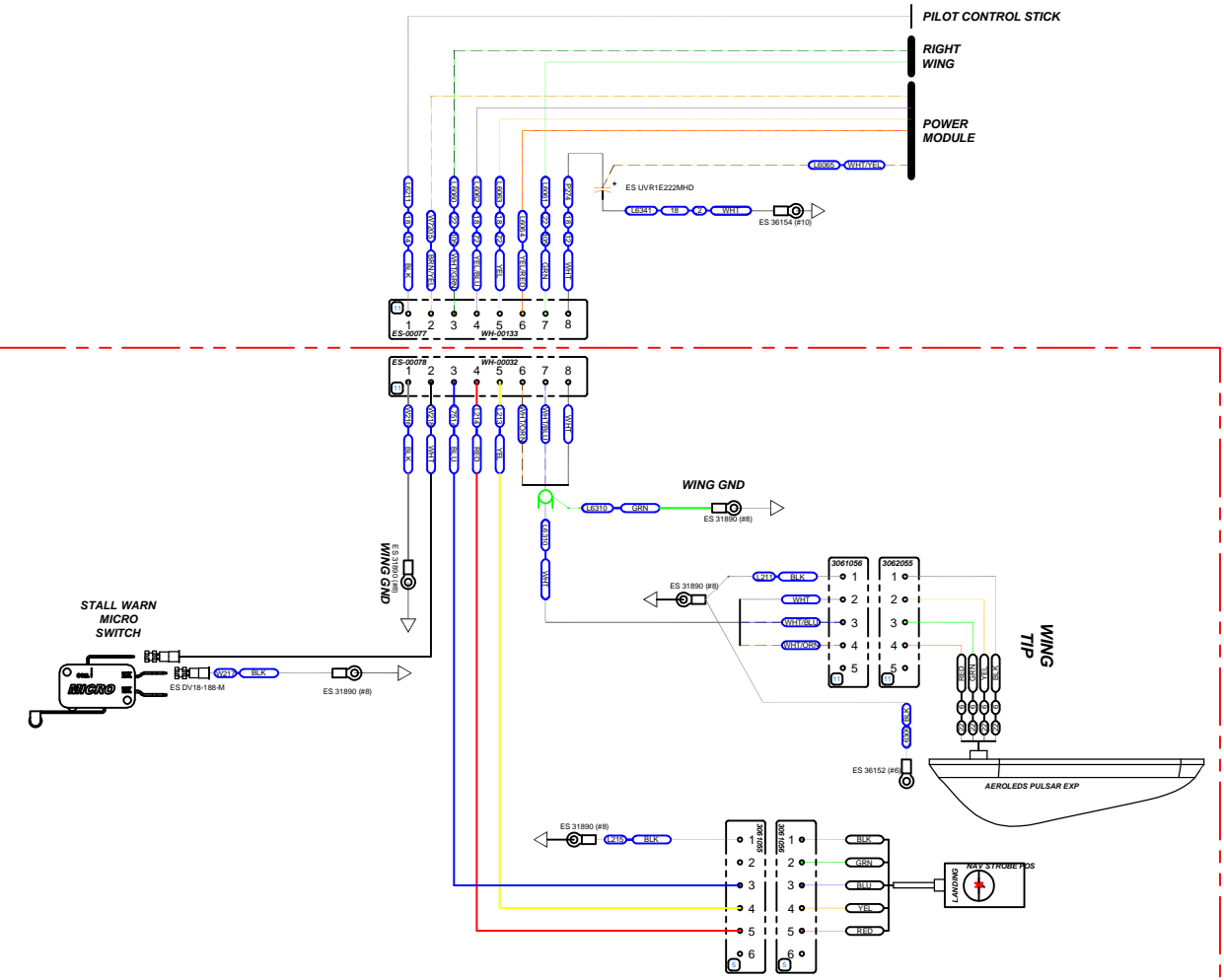
PILOT STICK GRIP



CO-PILOT STICK GRIP

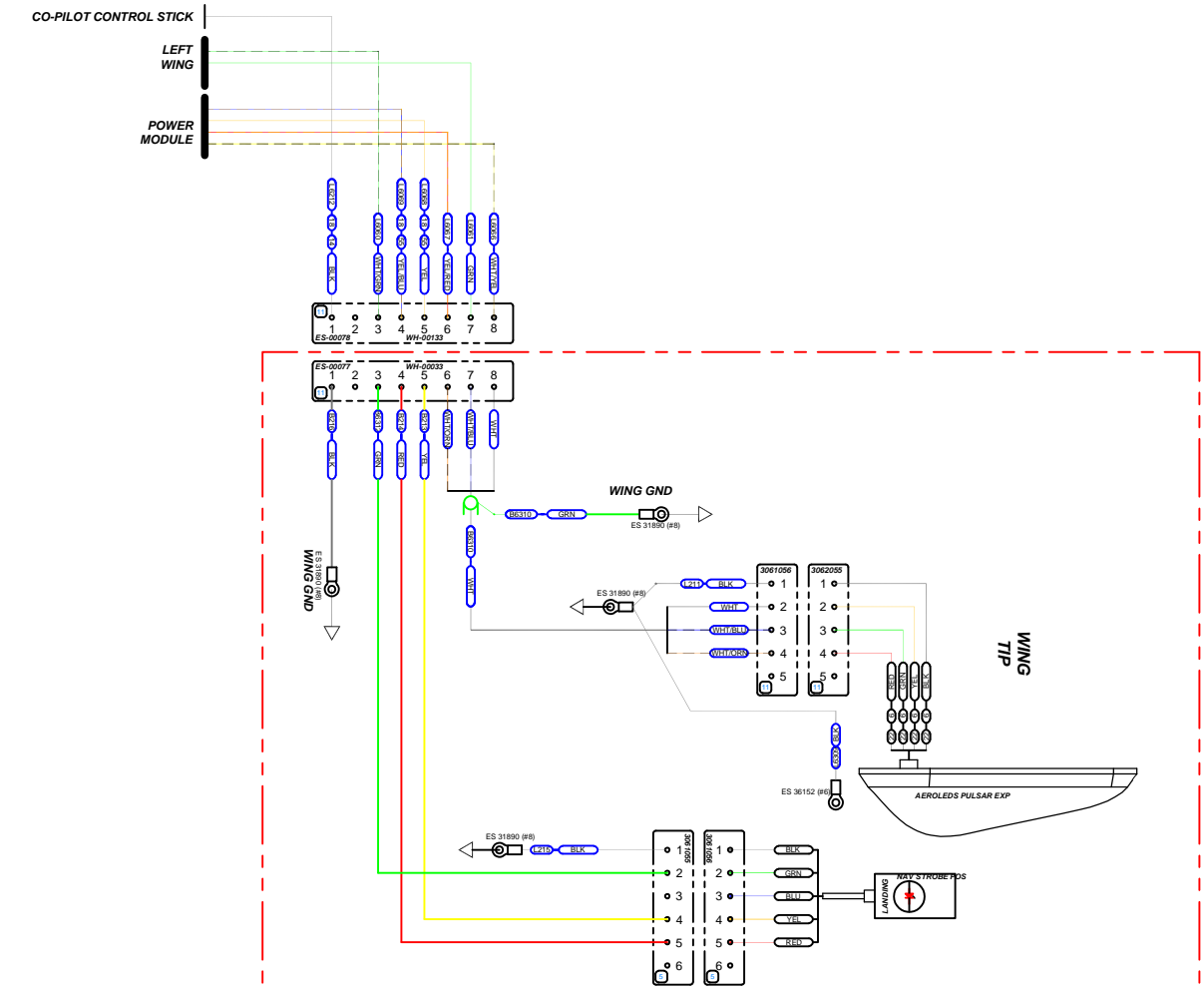


LEFT WING CONNECTOR




THESE COMPONENTS NOT INCLUDED IN AVIONICS KIT, NOR PART OF THE WH-00133.
 SEE WH-00032 AND WH-00033 RV-12iS WING HARNESS DRAWINGS.

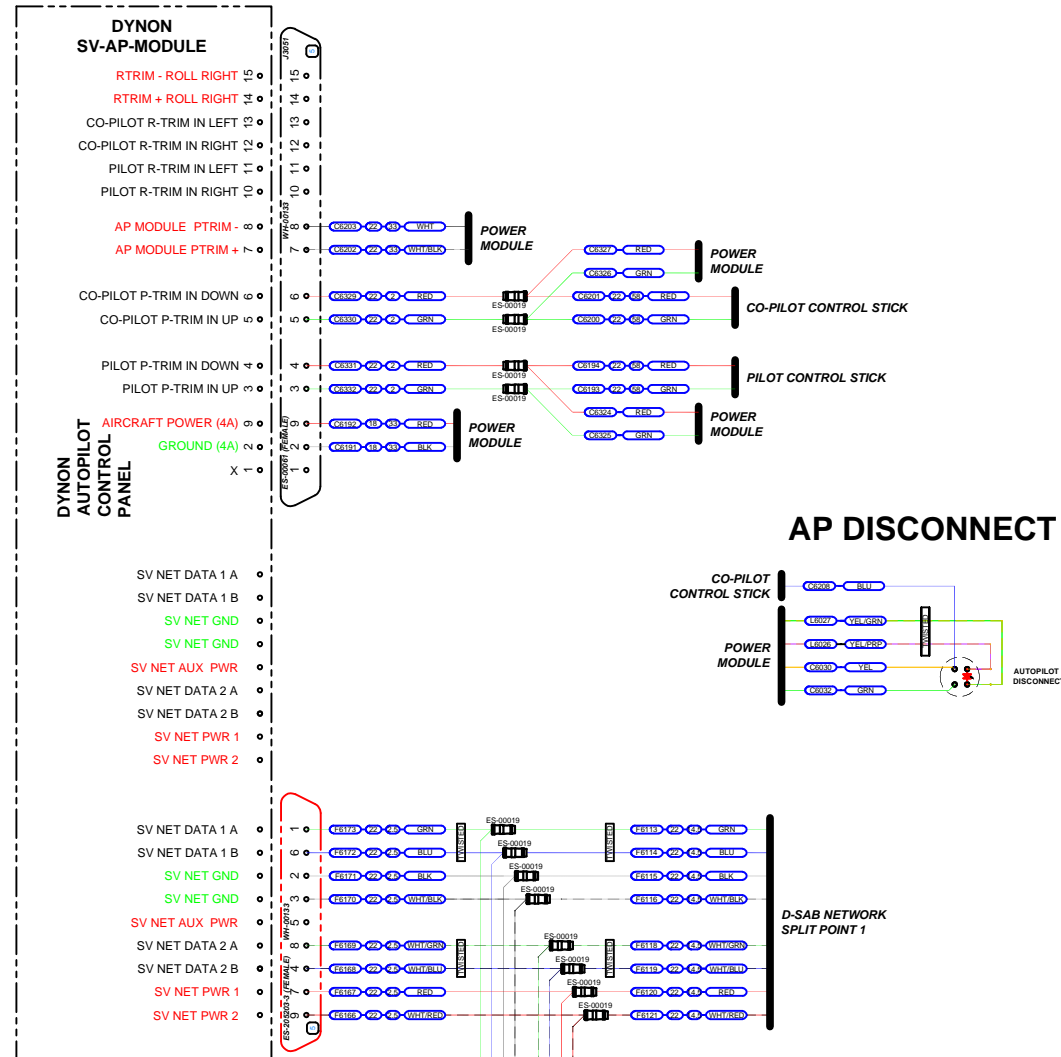
RIGHT WING CONNECTOR



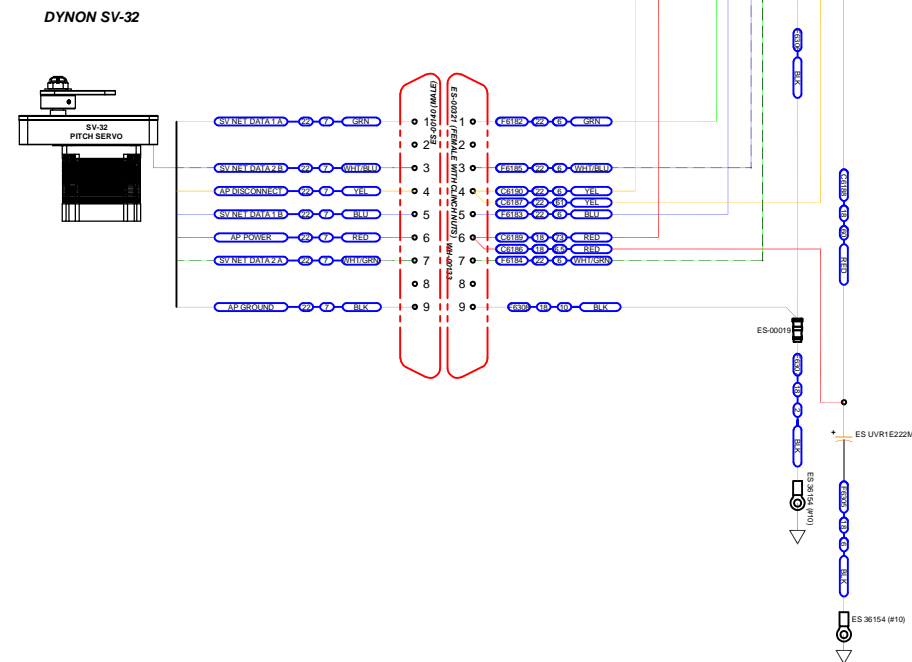
THESE COMPONENTS NOT INCLUDED IN AVIONICS KIT, NOR PART OF THE WH-00133.
 SEE WH-00032 AND WH-00033 RV-12iS WING HARNESS DRAWINGS.

	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 06/11/18 DRAWN BY: RIAN JOHNSON TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	UNITS: INCHES	WH-00133
	SCALE: NONE	PAGE: 3 OF 11
<small>DATELEN ENAMEL: C:\RV-12\Systems\RV\Electrical System\RV\Electrical System 012S SkyView RV-12iS.DWG</small>		<small>C-S17F ORIGINAL</small>

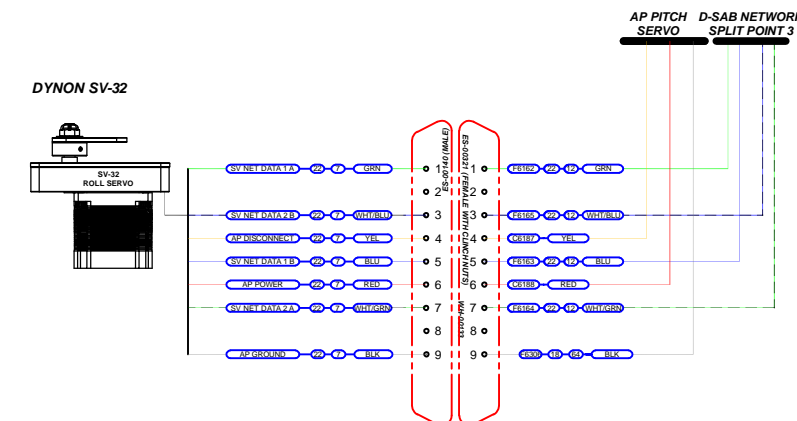
AP MODULE



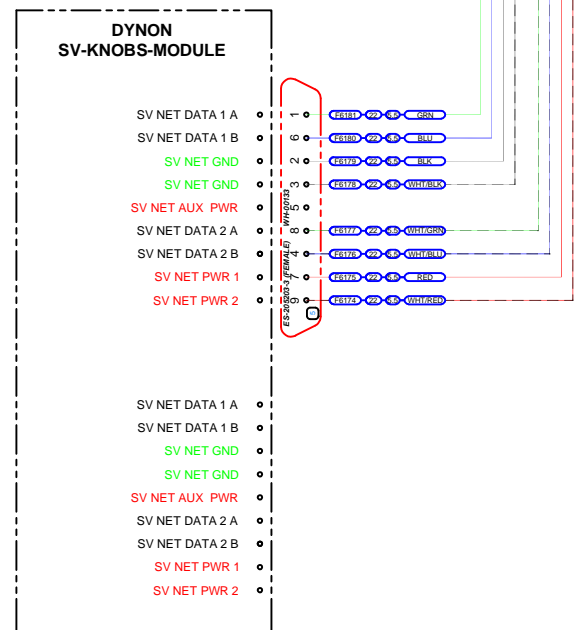
AUTOPILOT PITCH SERVO




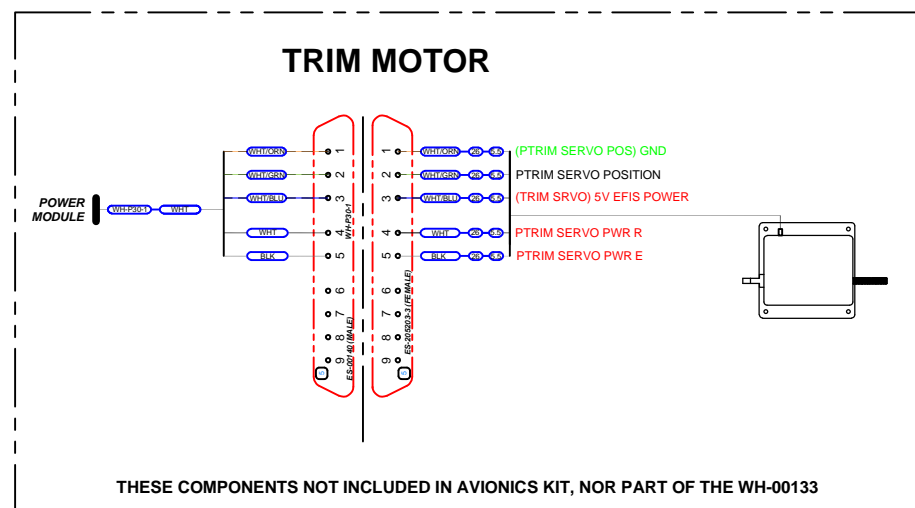
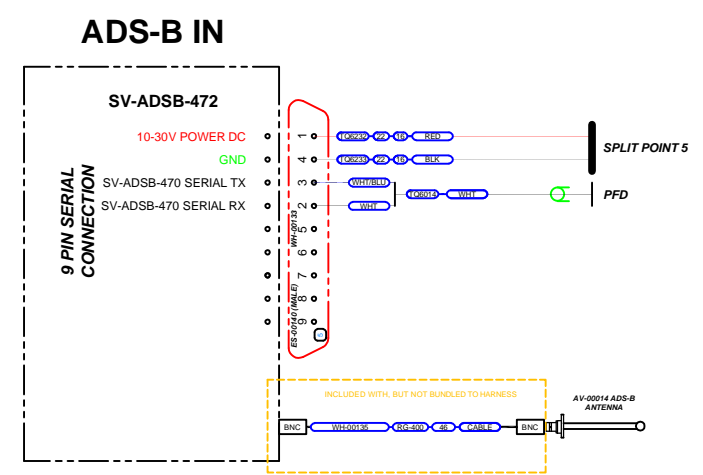
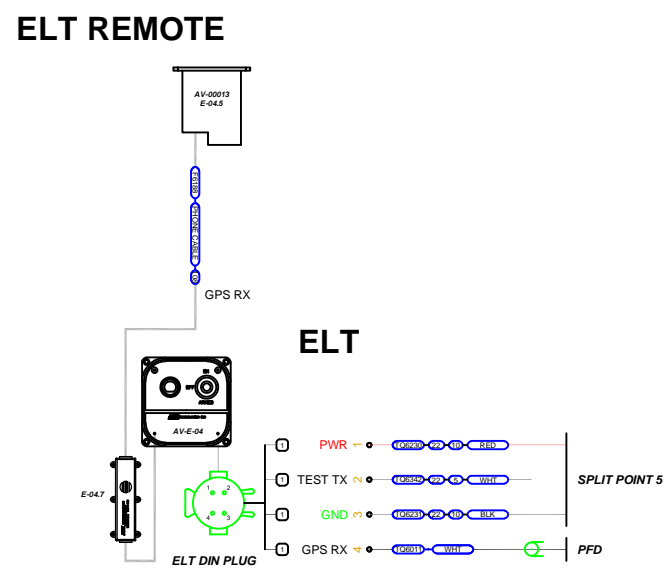
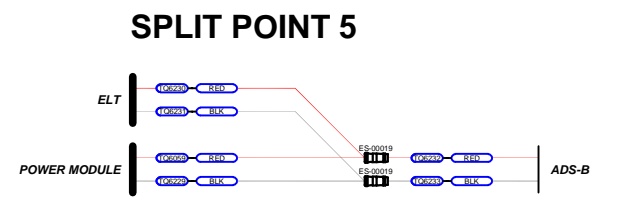
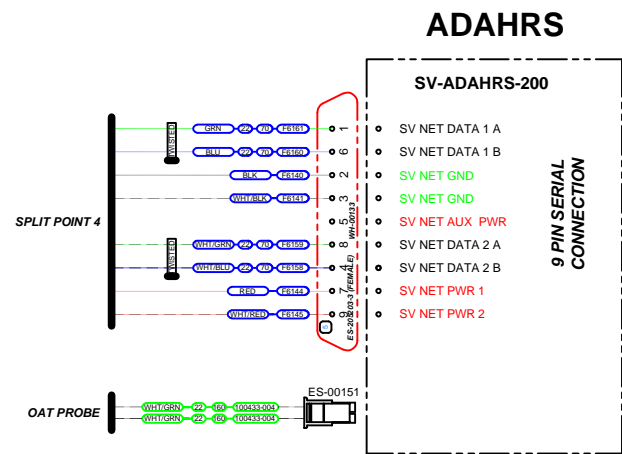
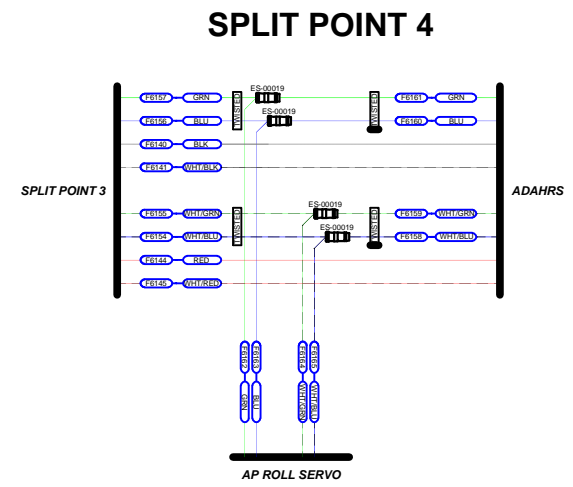
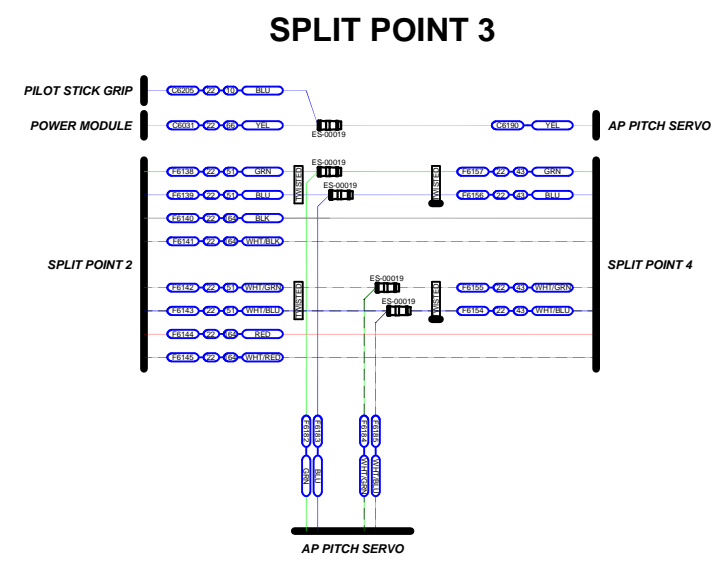
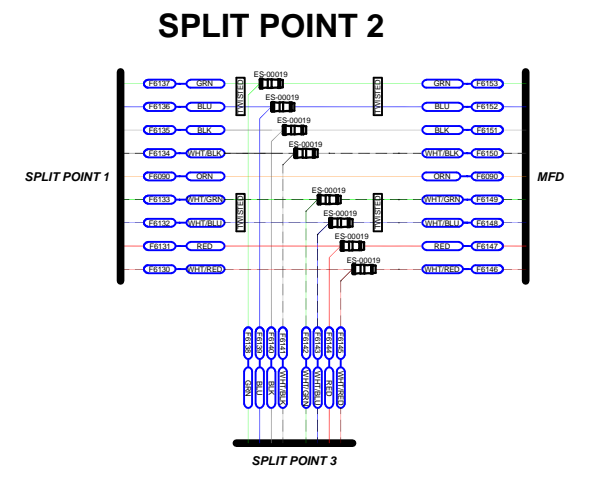
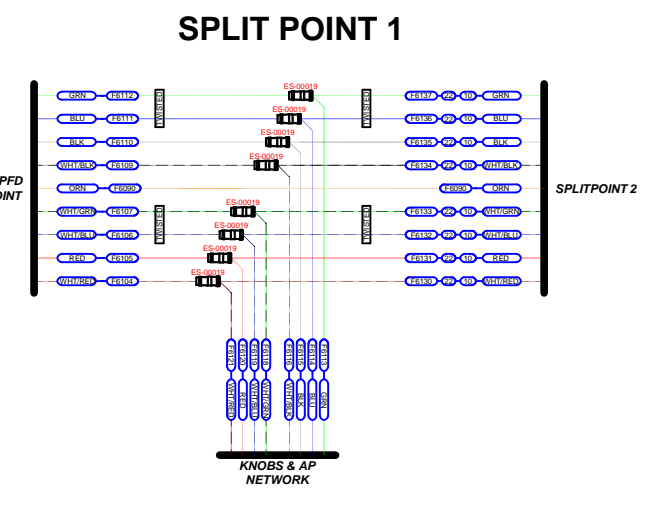
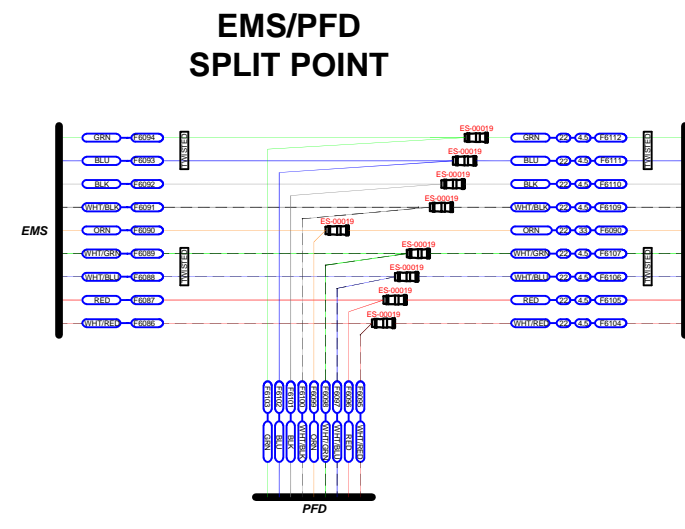
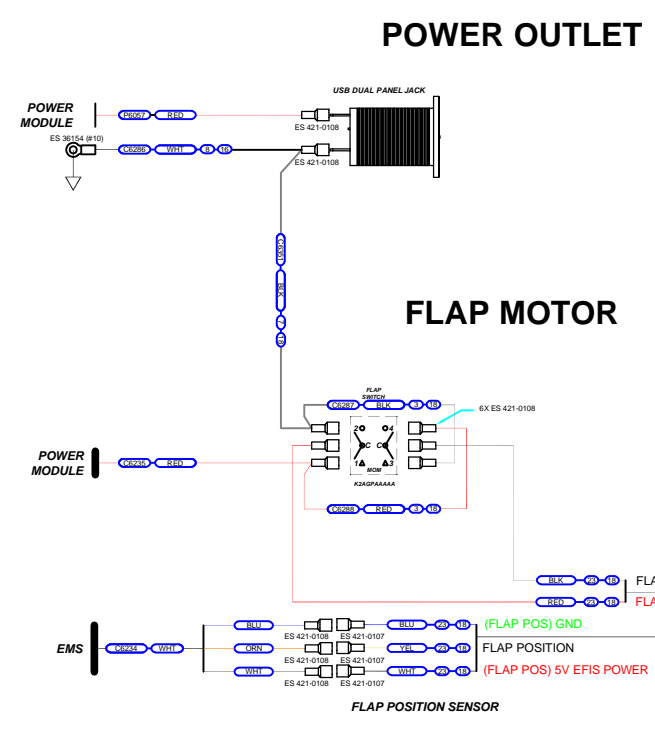
AUTOPILOT ROLL SERVO



KNOBS MODULE

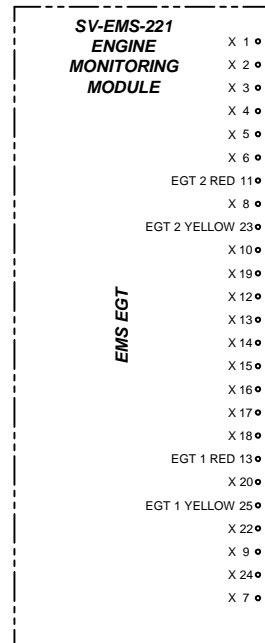


	VAN'S AIRCRAFT, INC.		14401 NE KEIL RD. NI AURORA, OR 97002 USA
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM		
DATE DRAWN: 06/11/18	UNITS: INCHES	WH-00133	
DRAWN BY: RIAN JOHNSON	TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	SCALE: NONE	PAGE: 5 OF 11
<small>DATELEN ENAME: C:\REV\178\Systems\RE\Electrical System\RE\Electrical System 012S SkyView RWJ\01133.DWG</small>			<small>C-S17F ORIGINAL</small>

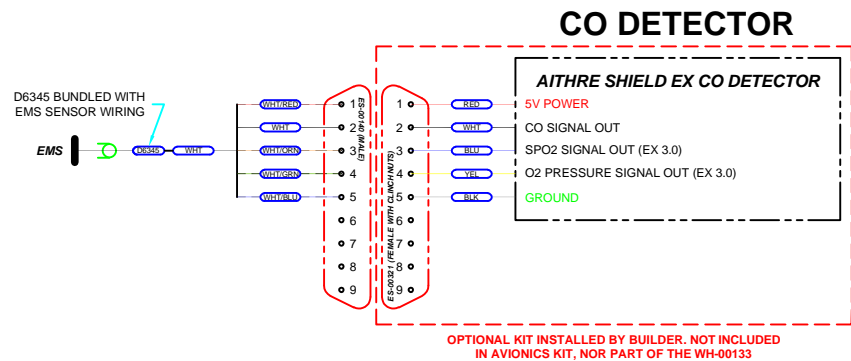
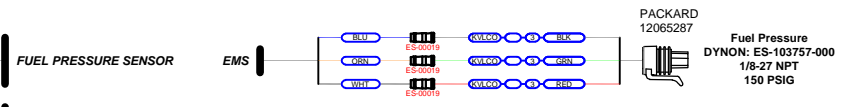
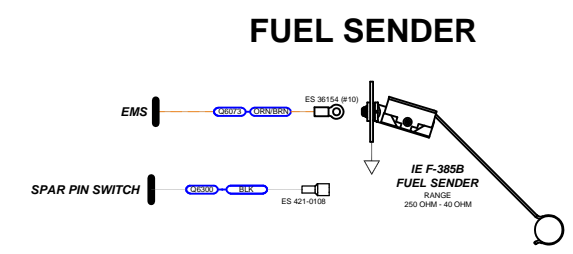
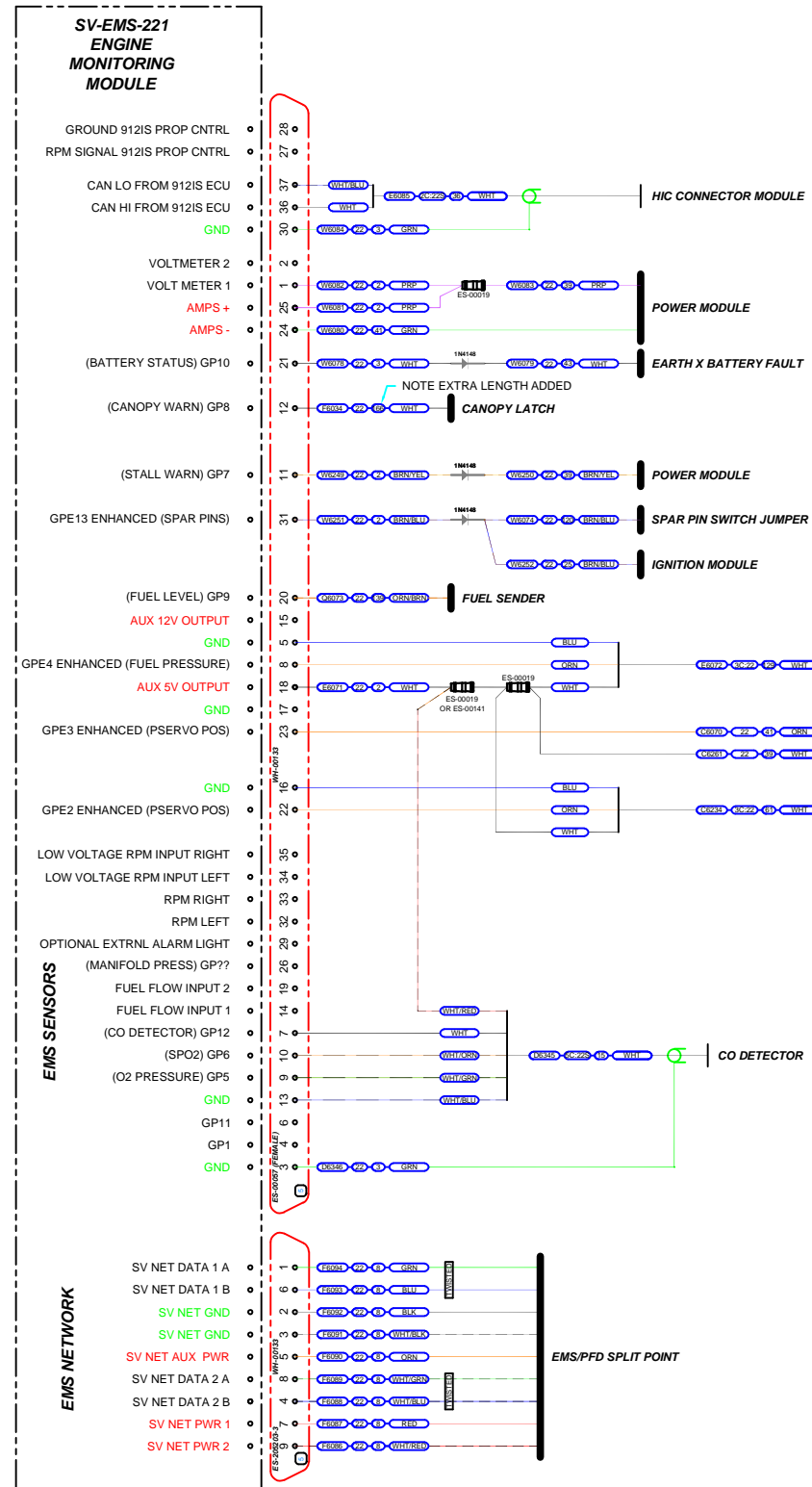


	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 06/11/18 DRAWN BY: RIAN JOHNSON TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	UNITS: INCHES SCALE: NONE	WH-00133 PAGE: 6 OF 11 C-317F ORIGINAL

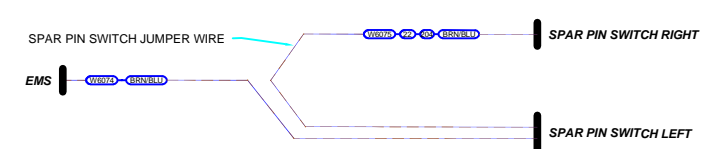
EMS



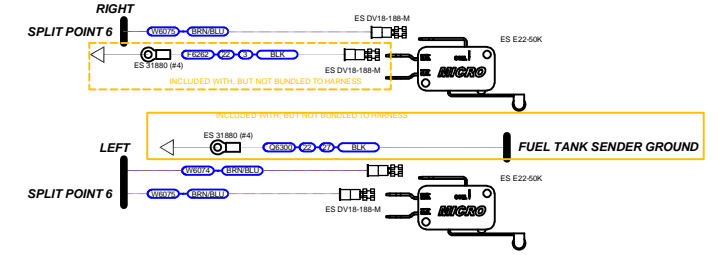
EMS



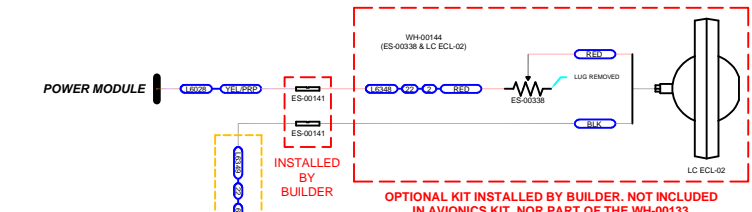
SPLIT POINT 6



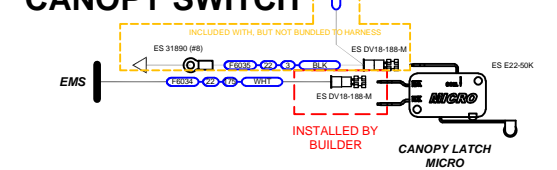
SPAR PIN SWITCHES



CABIN LIGHT & DIMMER



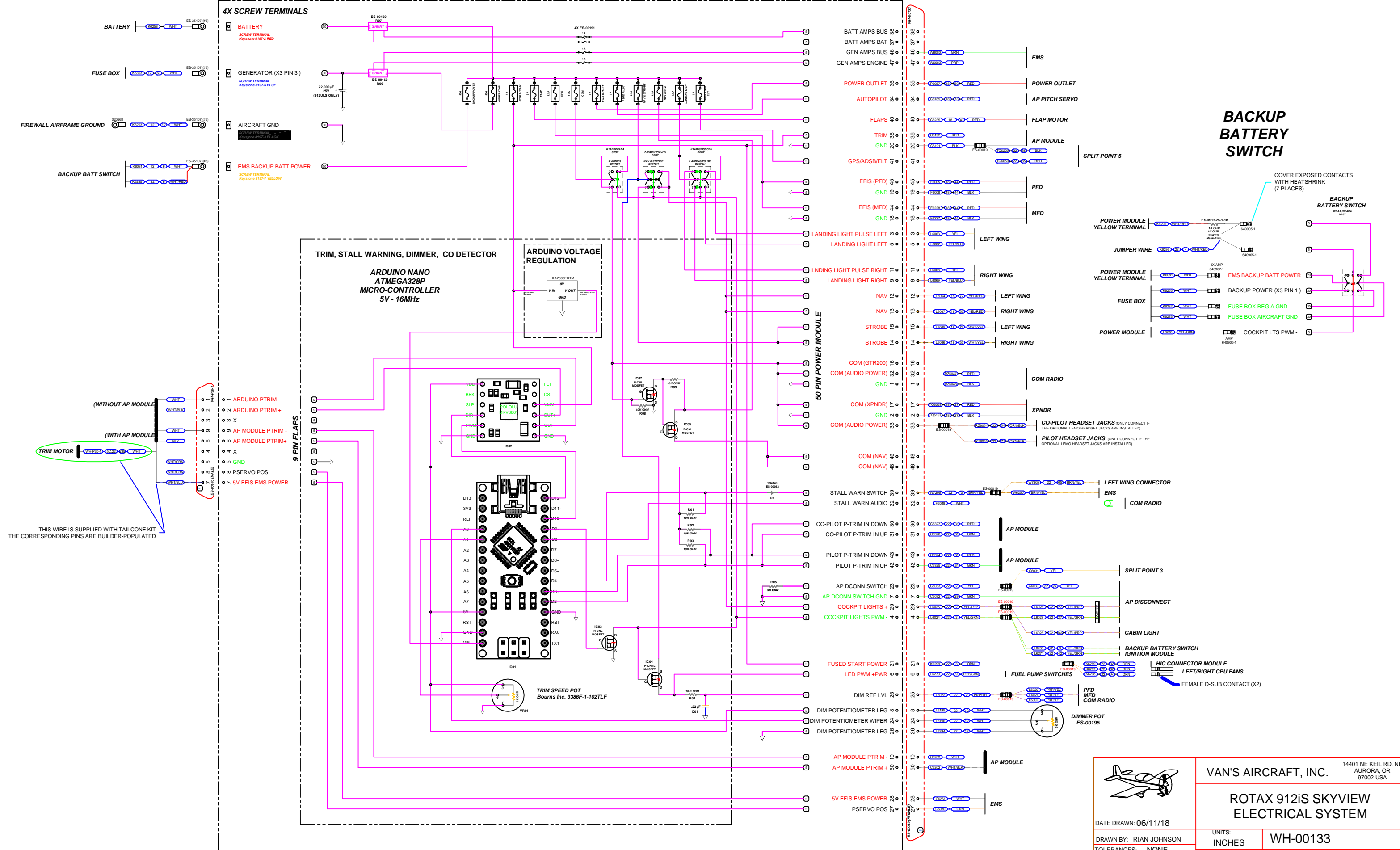
CANOPY SWITCH



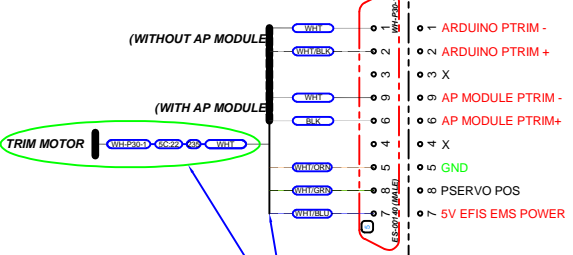
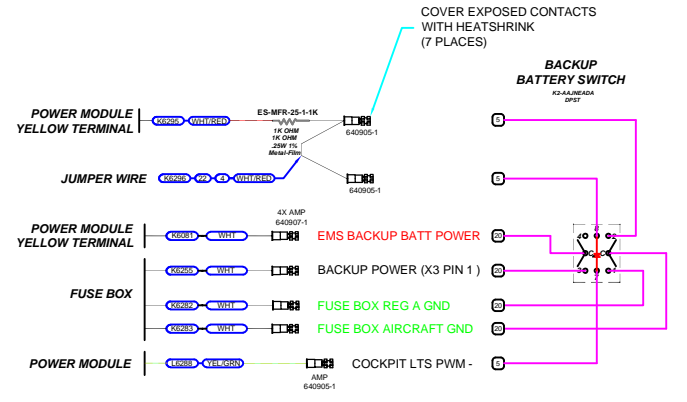
	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 06/11/18	UNITS: INCHES	WH-00133
DRAWN BY: RIAN JOHNSON	SCALE: NONE	PAGE: 7 OF 11
TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	C-317F ORIGINAL	


POWER MODULE iS-ULS PCB V3.4

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
R9	SEE PAGE 1		



BACKUP BATTERY SWITCH





VAN'S AIRCRAFT, INC.

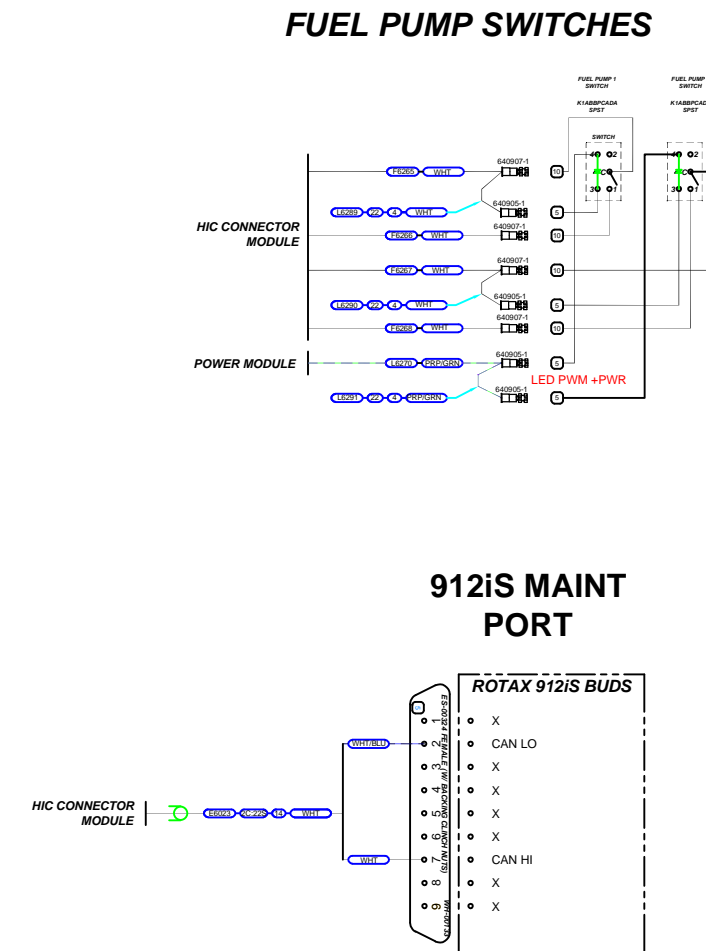
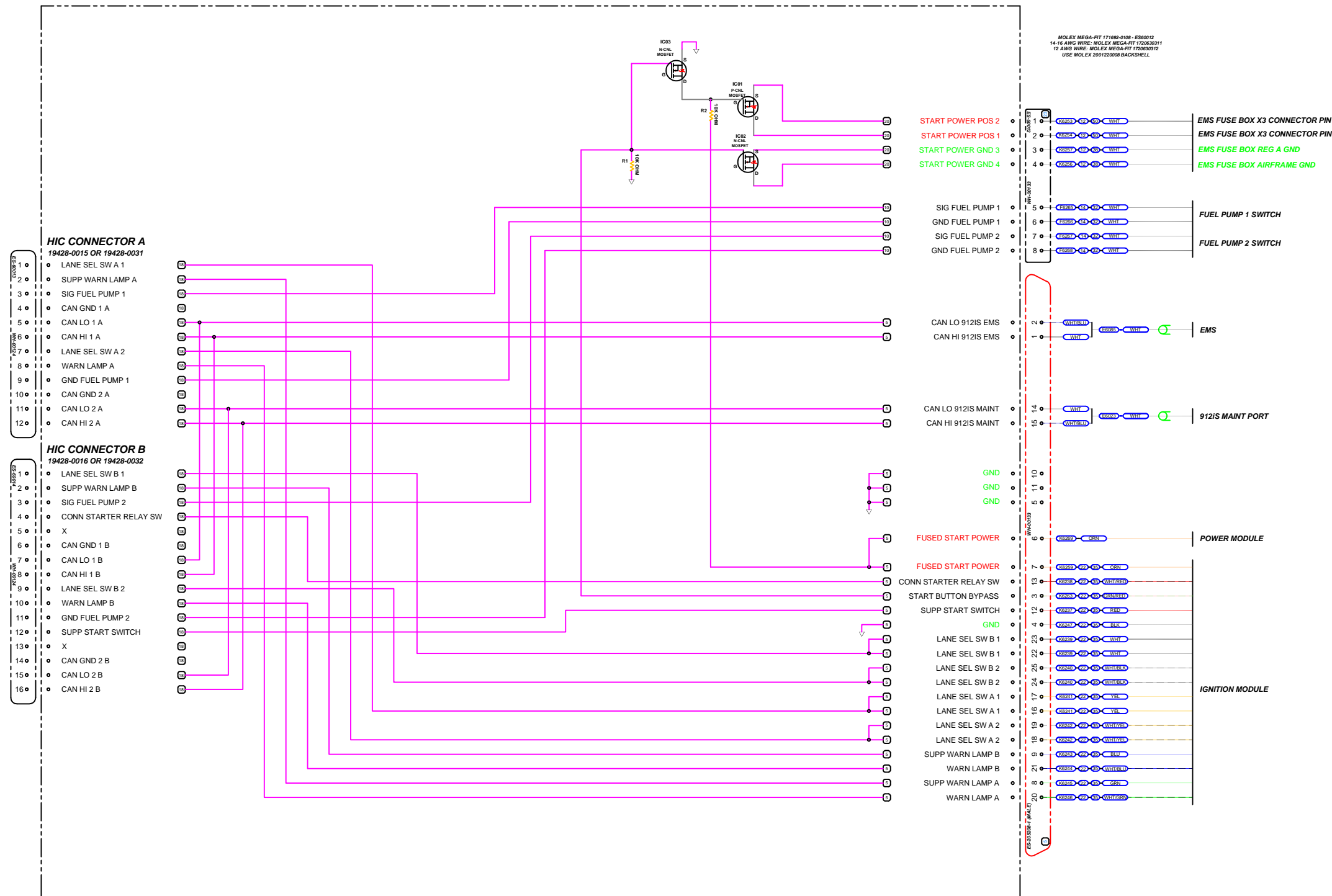
14401 NE KEIL RD. NI
AURORA, OR
97002 USA

**ROTAX 912iS SKYVIEW
ELECTRICAL SYSTEM**


DATE DRAWN: 06/11/18		UNITS: INCHES	WH-00133
DRAWN BY: RIAN JOHNSON		SCALE: NONE	PAGE: 8 OF 11
TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)		C-S17F ORIGINAL	

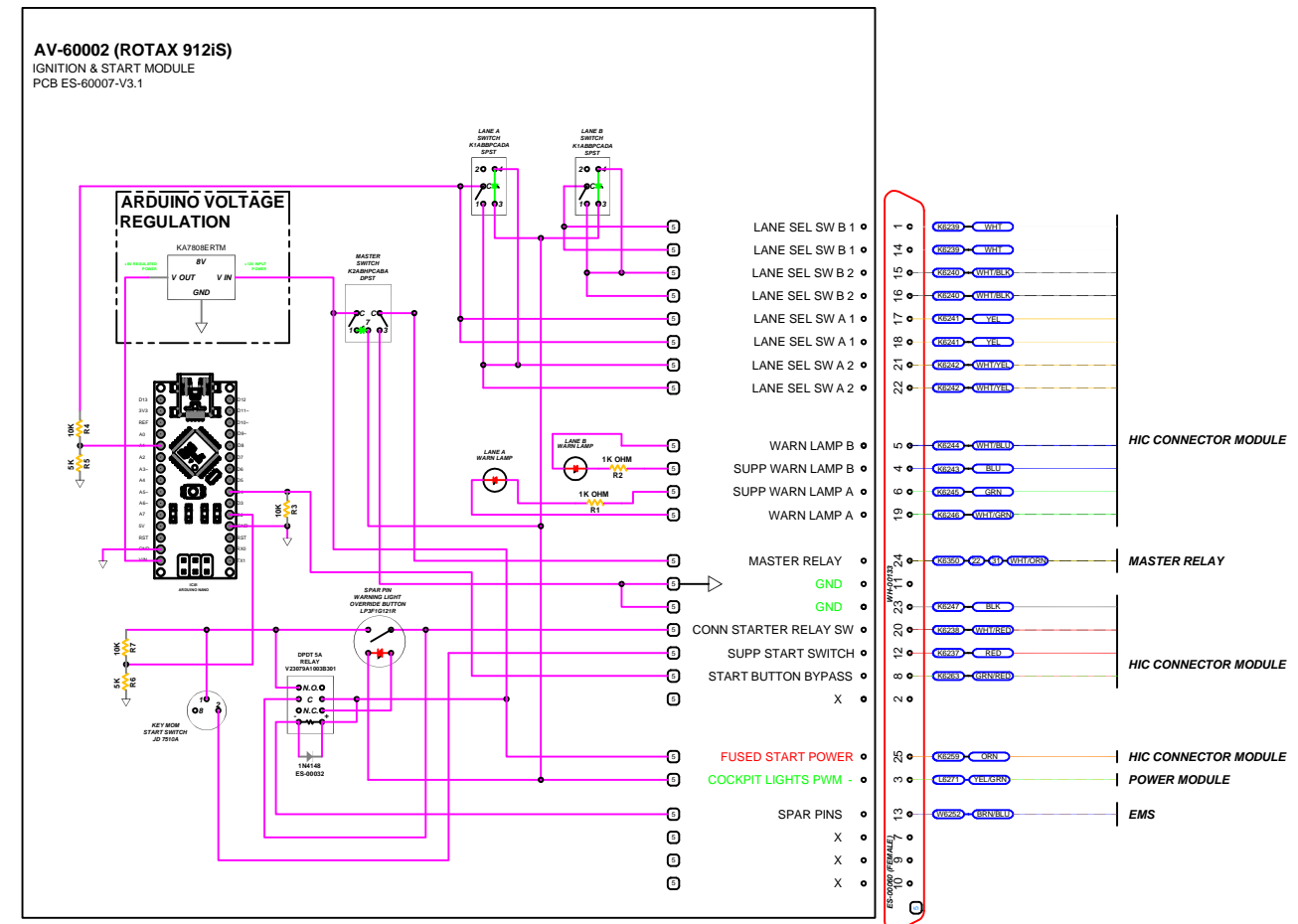
HIC CONNECTOR MODULE iS PCB ES-60009 V3.1


REVISIONS			
REV	DESCRIPTION	DATE	APPROVE
R9	SEE PAGE 1		

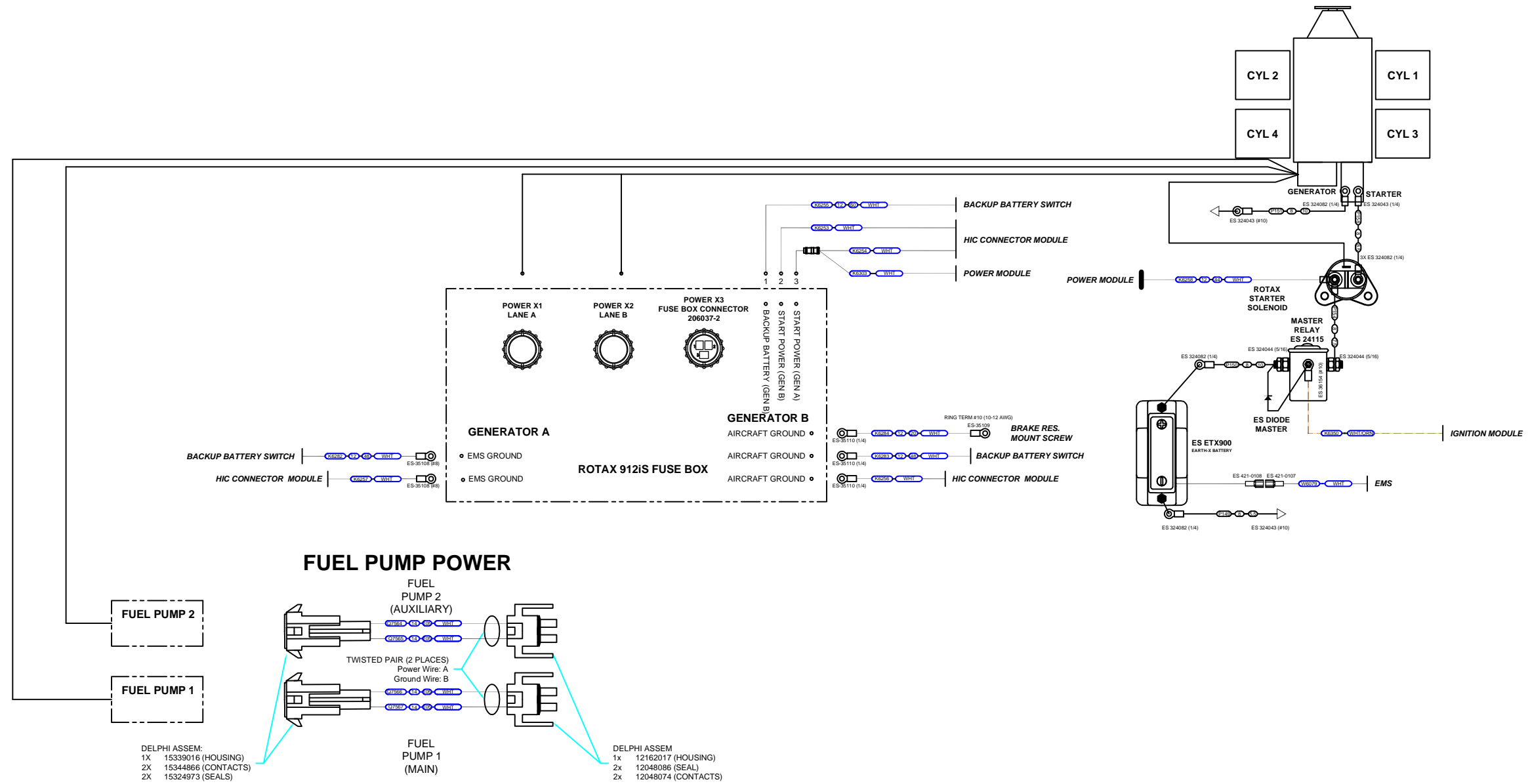



NOTE: THE HIC CONNECTOR MODULE MUST BE ATTACHED TO F-1202B WITH STAR WASHERS UNDER THE SCREWS

	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 06/11/18	UNITS: INCHES	WH-00133
DRAWN BY: TONY KIRK TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	SCALE: NONE	PAGE: 9 OF 11
DATE/REV: ENAMEL: C:\REV_17\Systems\912iS\Electrical System\912iS SkyView\912iS.DWG		C:\S17F ORIGINAL



	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 06/11/18	UNITS: INCHES	WH-00133
DRAWN BY: RIAN JOHNSON	TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	SCALE: NONE PAGE: 10 OF 11
<small>DATELEN ENAMEL: C:\REV.1\2\System\REV\Electrical System\REV\Electrical System 012iS SkyView\AV-60007-V3.1.DWG</small>		<small>C-S17F ORIGINAL</small>



	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 06/11/18	UNITS: INCHES	WH-00133
DRAWN BY: RIAN JOHNSON	TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	SCALE: NONE PAGE: 11 OF 11
DATE/REV: ENAMEL: C:\REV\173\System_VR\Electrical System_VR\Electrical System 012S SkyView (R9) (0118) DWG		C:\S17F ORIGINAL