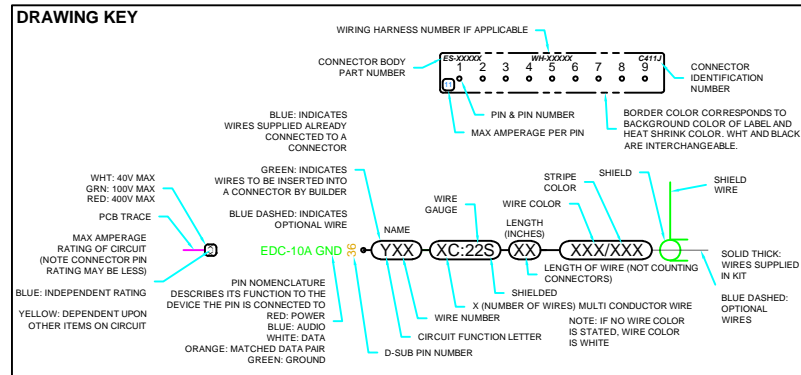


CIRCUIT LETTER FUNCTION	
LETTER	CIRCUITS
C	CONTROL SURFACE
D	INSTRUMENT
E	ENGINE INSTRUMENT
F	FLIGHT INSTRUMENTS
H	HEATING VENTILATING
J	IGNITION
K	ENGINE CONTROL
L	LIGHTING
P	POWER CONTROL
Q	FUEL
R	RADIO
RZ	HEADPHONE
T	SPECIAL ELECTRONIC
TC	RADIO CONTROL
TD	AIRBORNE ANNOUNCING
TP	BEACON
TQ	TRANSMITTER 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-SA01017 SOCKETS OR ES-SA-1018 PINS. PERMISSIBLE TO STRIP 18 AWG WIRE TO FIT ES-SA01017 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.

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 200 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

GTR 200 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 200 PRESET NOTES:

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVEI
R0	INITIAL RELEASE	12/01/18	TDM
R1	ON PAGE 9 "EA-F4122" WAS "EA-F4120"	12/18/18	RLJ
R2	ADDED PANEL PTT	01/04/19	TDM
R3	W7205 WAS W6077.	11/08/19	BPM
R4	MINOR CORRECTIONS EMS 37-PIN INCORRECT SWAPPED PINS 24 & 25	02/14/20	BPM
R5	ON PAGE 9 "EA-XB100-1" WAS "EA-F4122". DELETED P3067 REPLACED FUEL PRESSURE SENSOR 101690-000 WITH 103755-000	05/07/20	RMS

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.

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97002 USA

**ROTAX 912ULS SKYVIEW
ELECTRICAL SYSTEM**

DATE DRAWN: 12/01/18

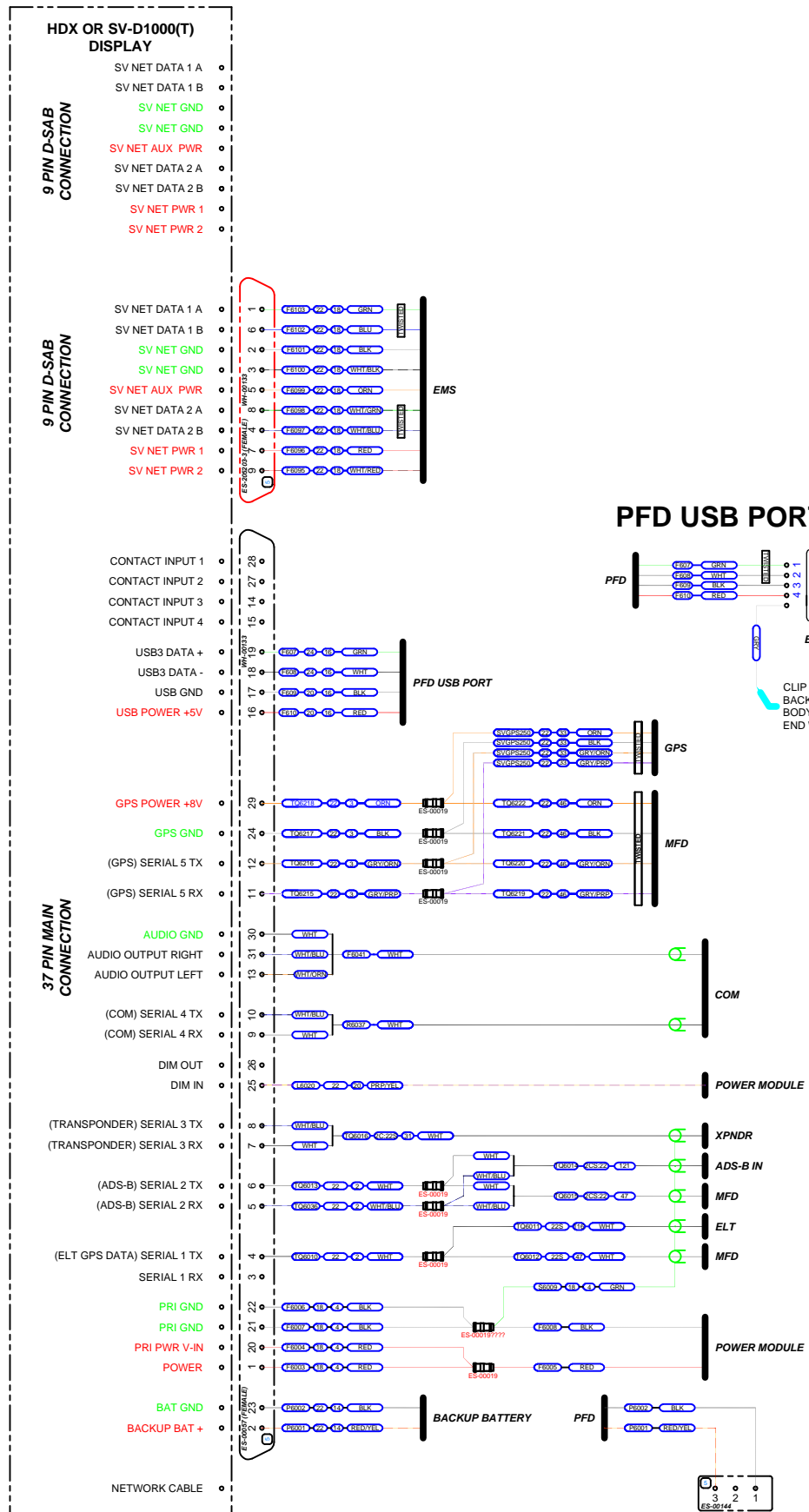
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TOLERANCES: NONE
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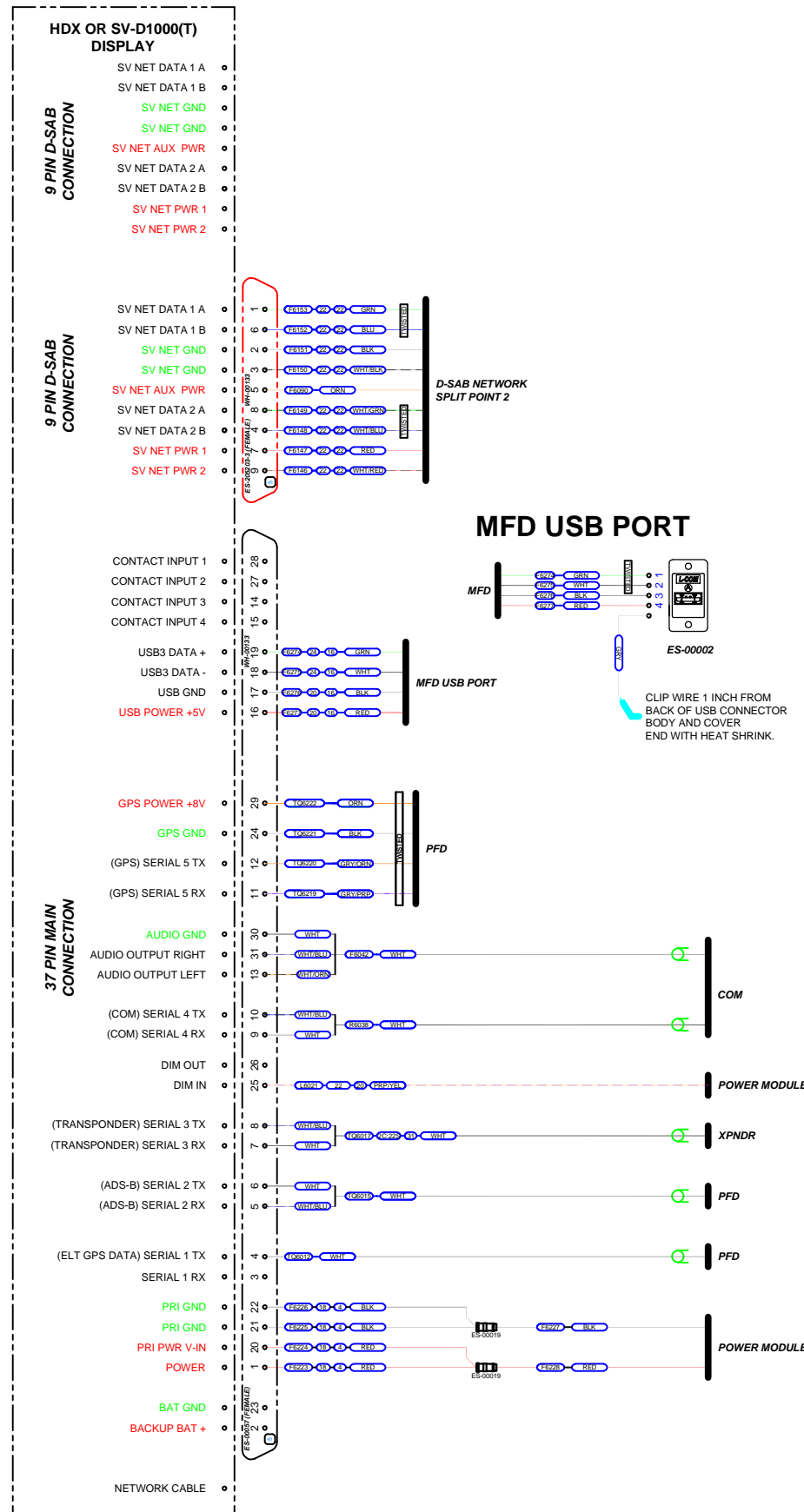
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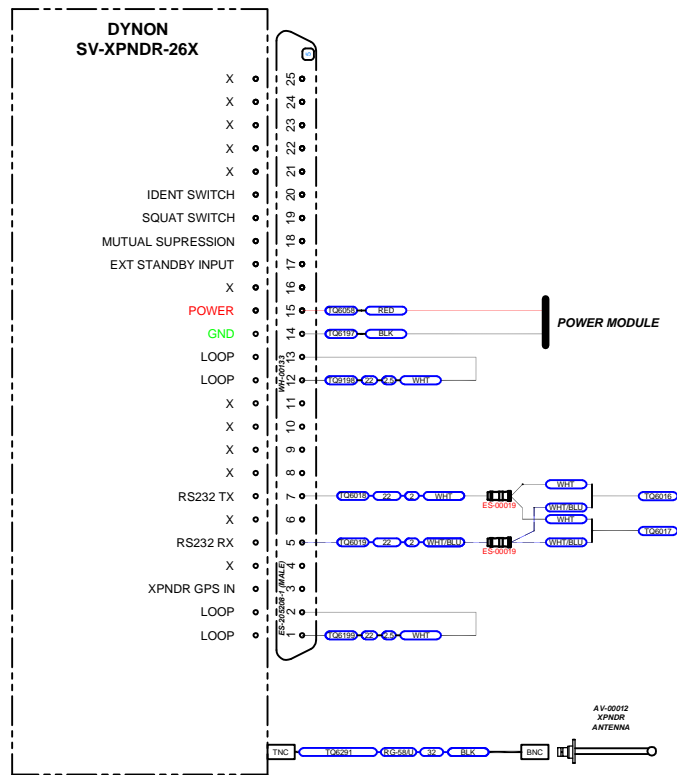
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MFD

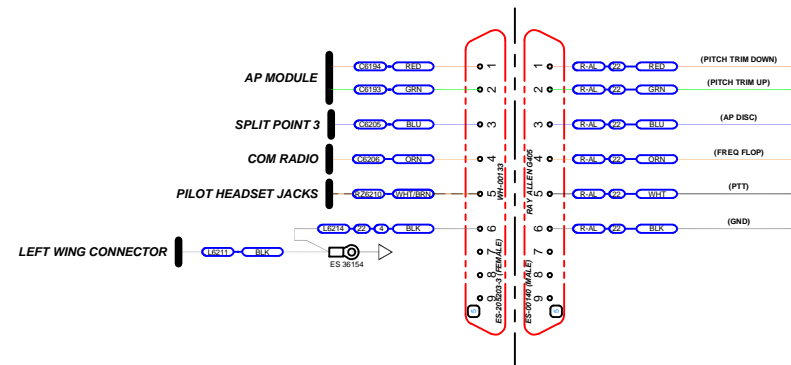


XPNDR

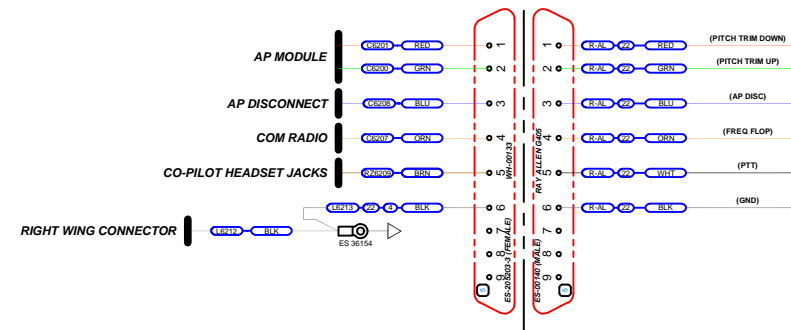


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	ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 12/01/18 DRAWN BY: T. DE MAN TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	UNITS: INCHES	WH-00139 SCALE: NONE PAGE: 2 OF 9
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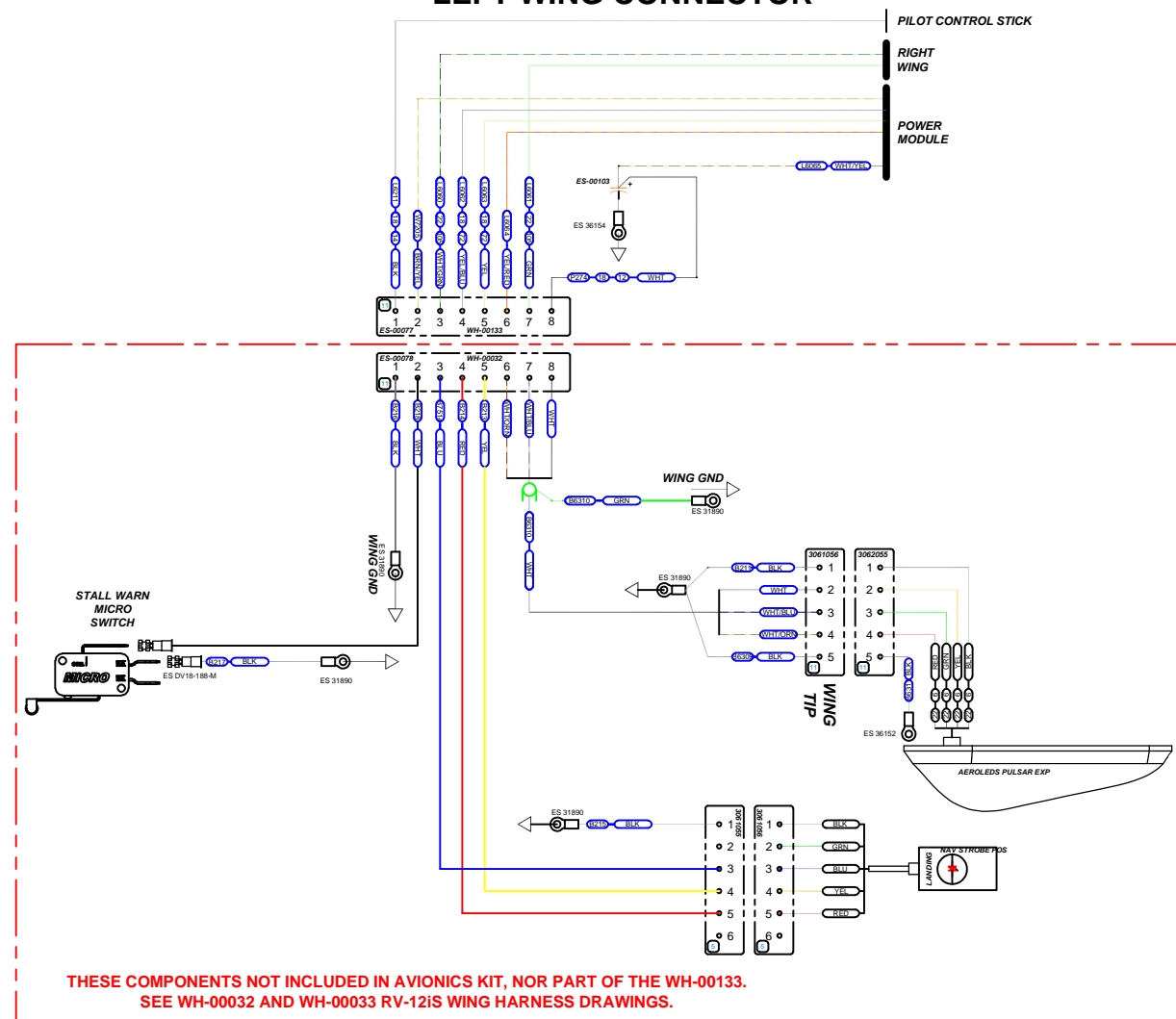
PILOT STICK GRIP



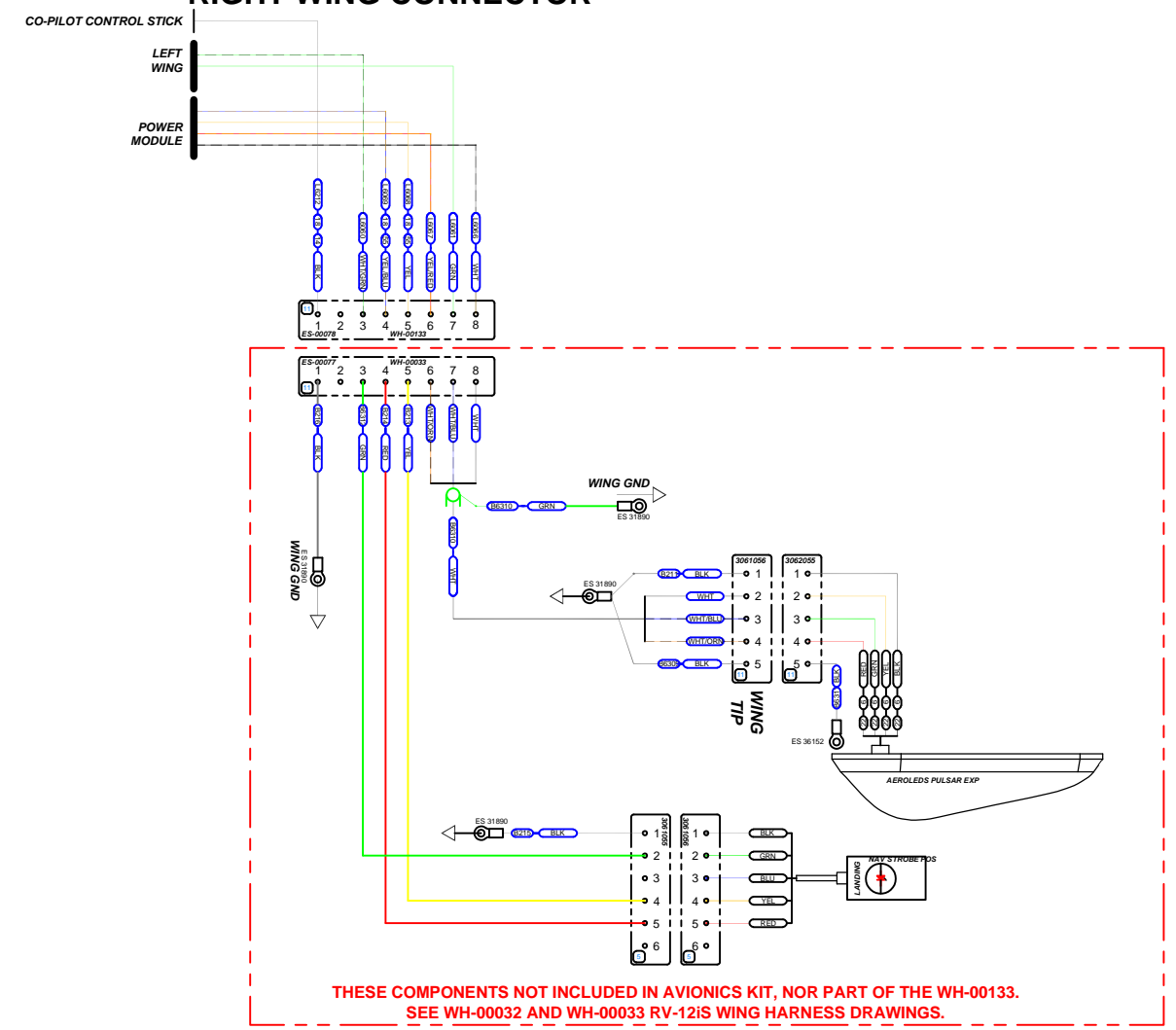
CO-PILOT STICK GRIP



LEFT WING CONNECTOR



RIGHT WING CONNECTOR



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ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM

DATE DRAWN: 12/01/18

DRAWN BY: T. DE MAN

TOLERANCES: NONE

(UNLESS OTHERWISE SPECIFIED)

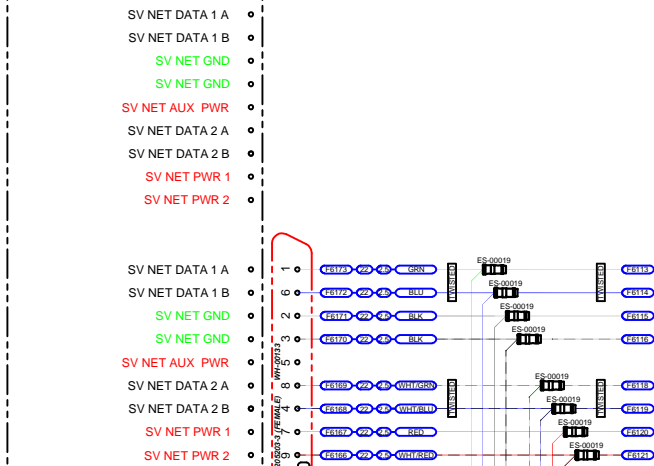
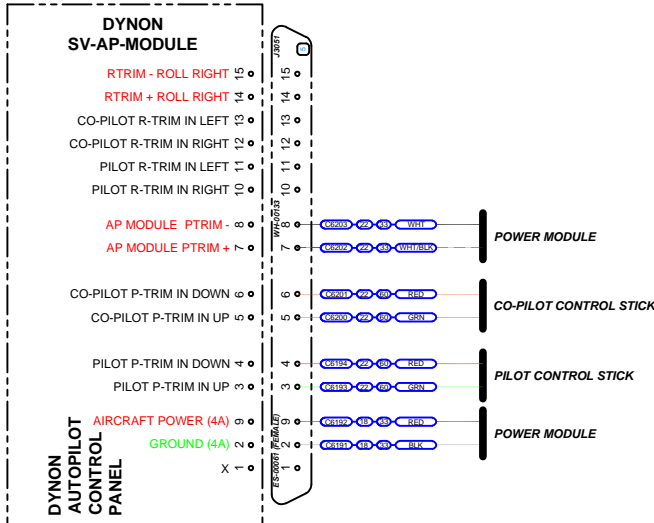
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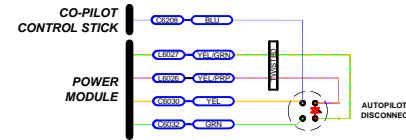
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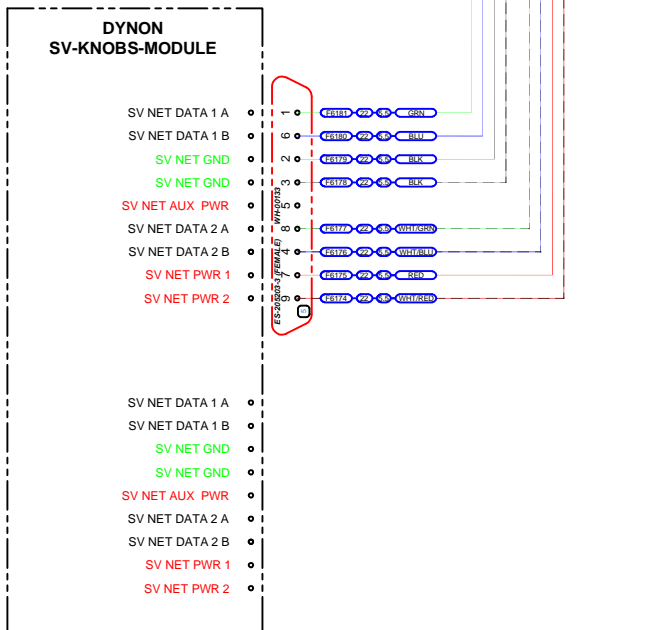
AP MODULE



AP DISCONNECT



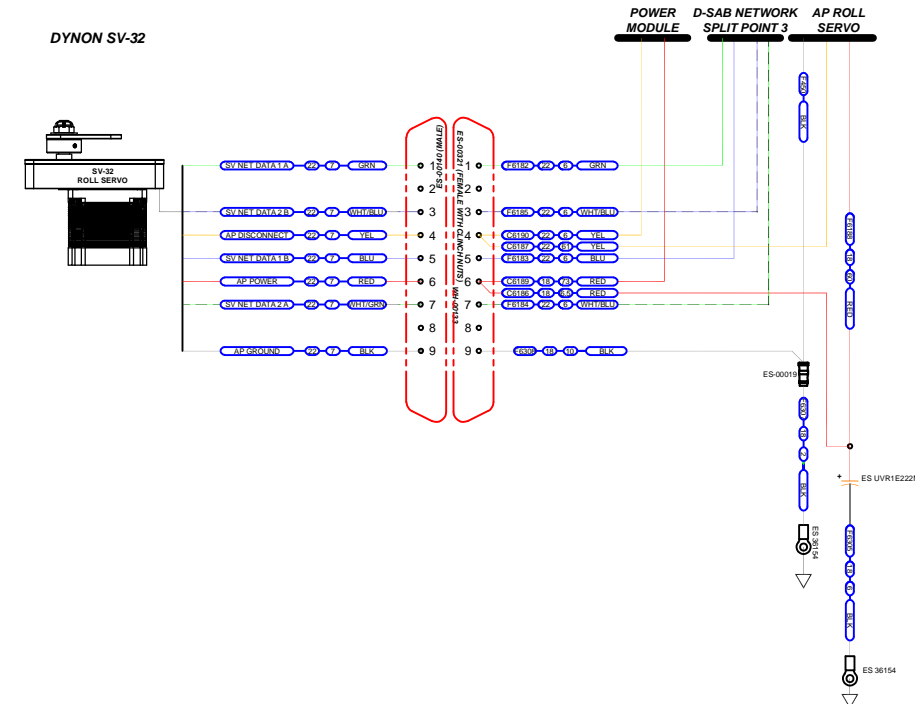
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D-SAB NETWORK SPLIT POINT 1

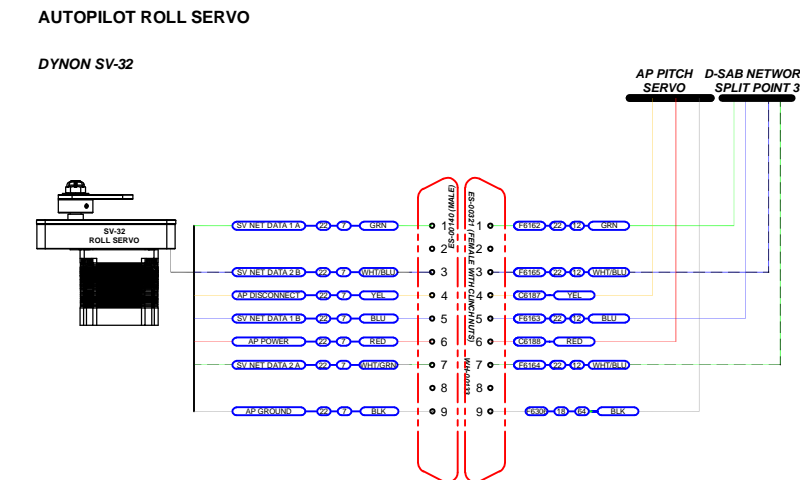
AUTOPILOT PITCH SERVO


DYNON SV-32



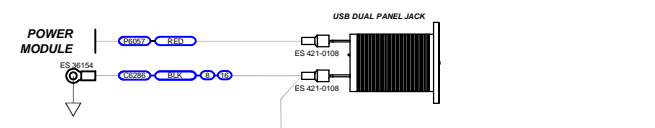
AUTOPILOT ROLL SERVO

DYNON SV-32

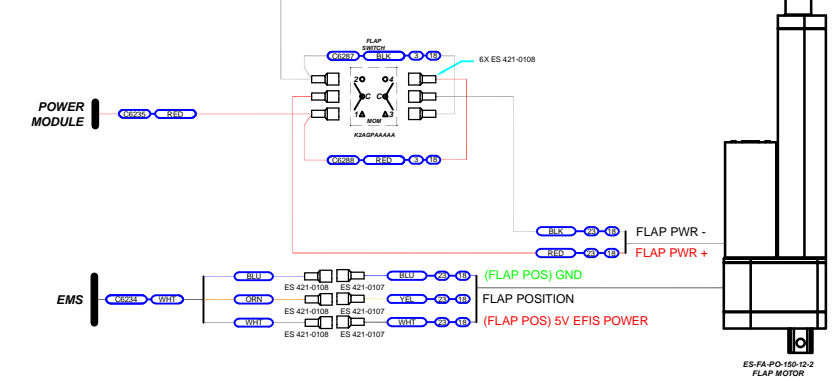


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DATE DRAWN: 12/01/18 DRAWN BY: T. DE MAN TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	UNITS: INCHES	WH-00139
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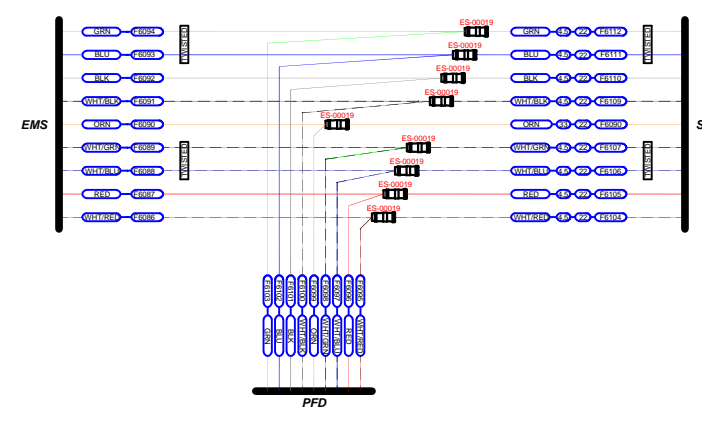
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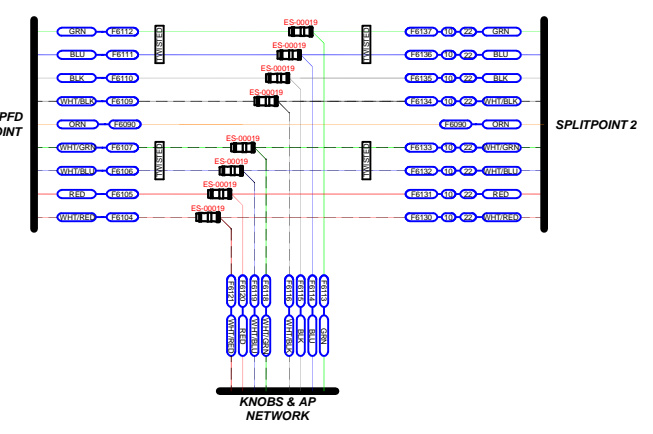
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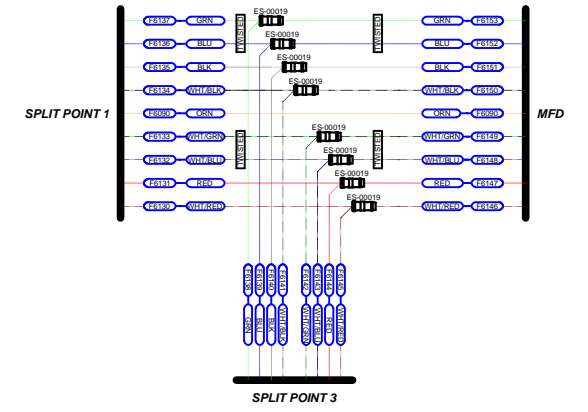
EMS/PFD SPLITPOINT



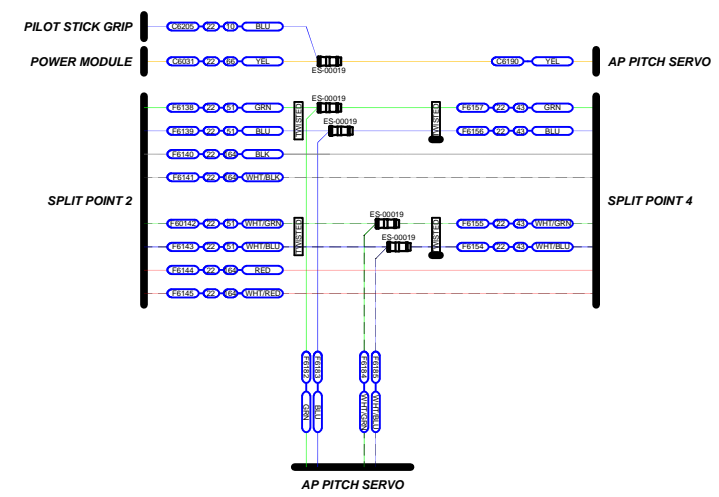
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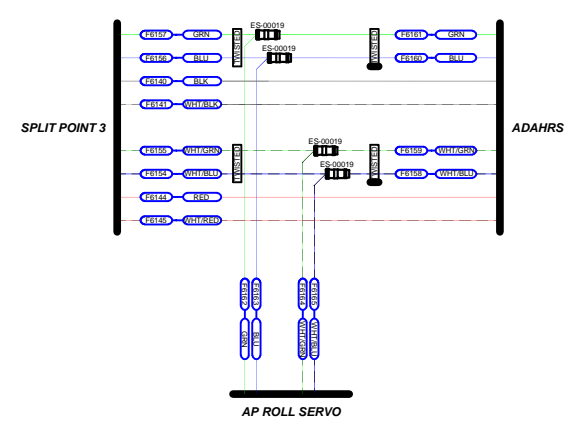
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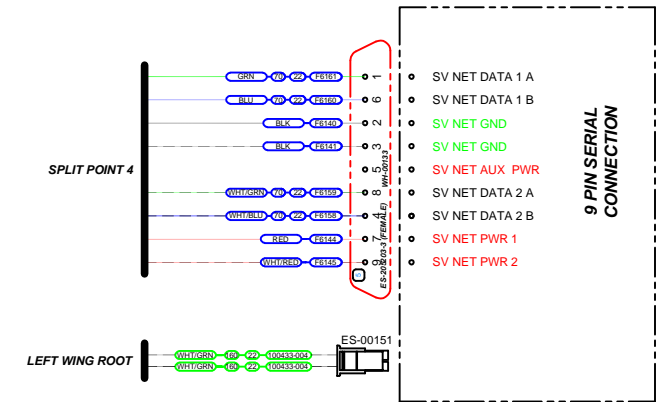
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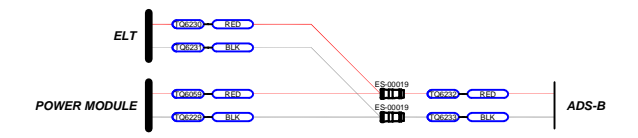
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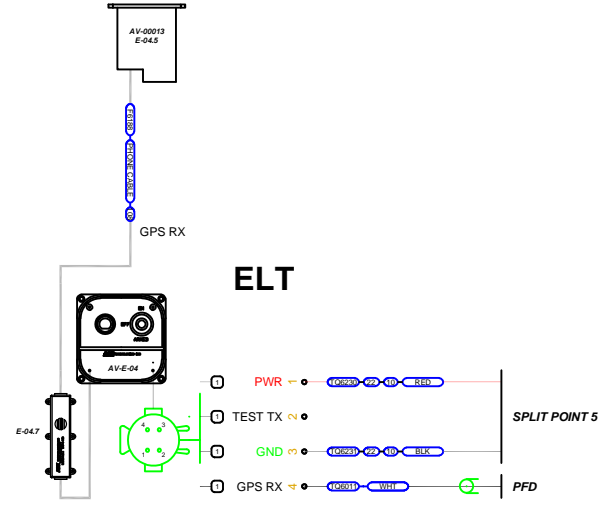
SV-ADAHRS-200



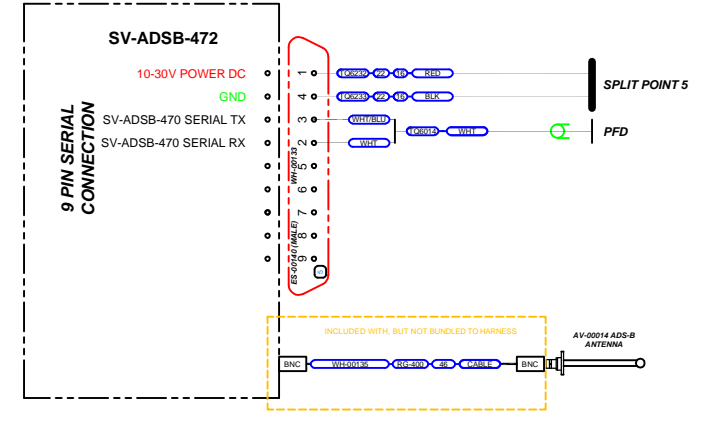
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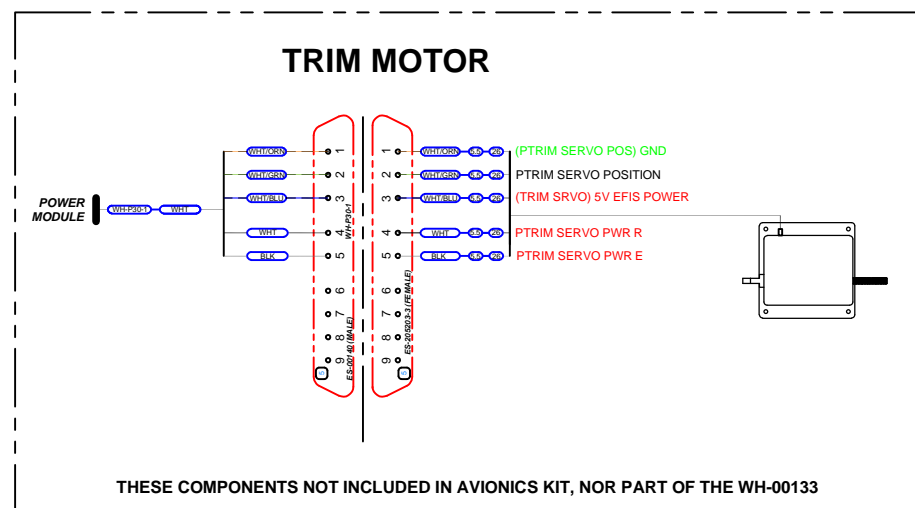
ELT REMOTE



ADS-B IN

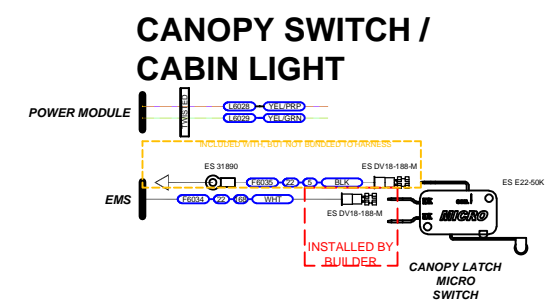
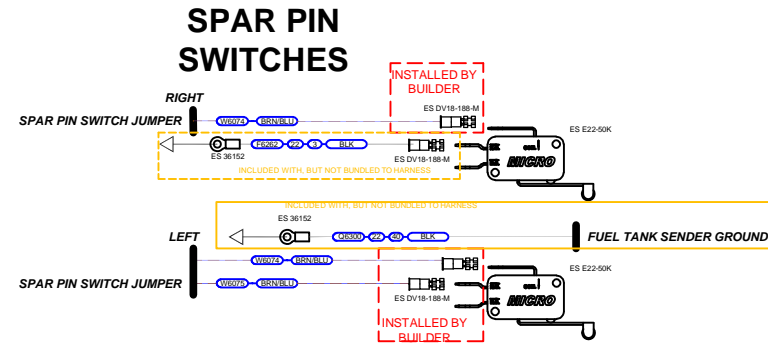
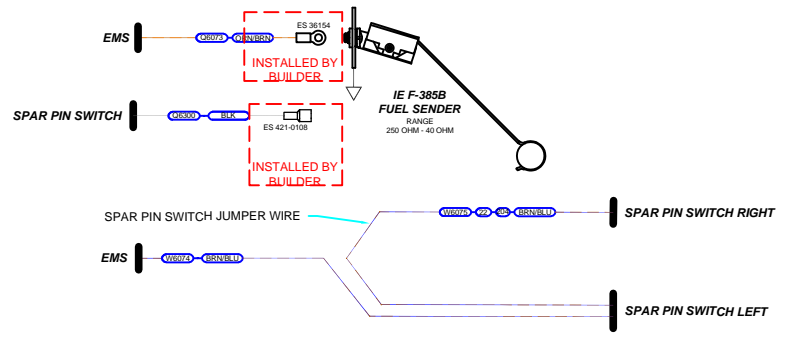
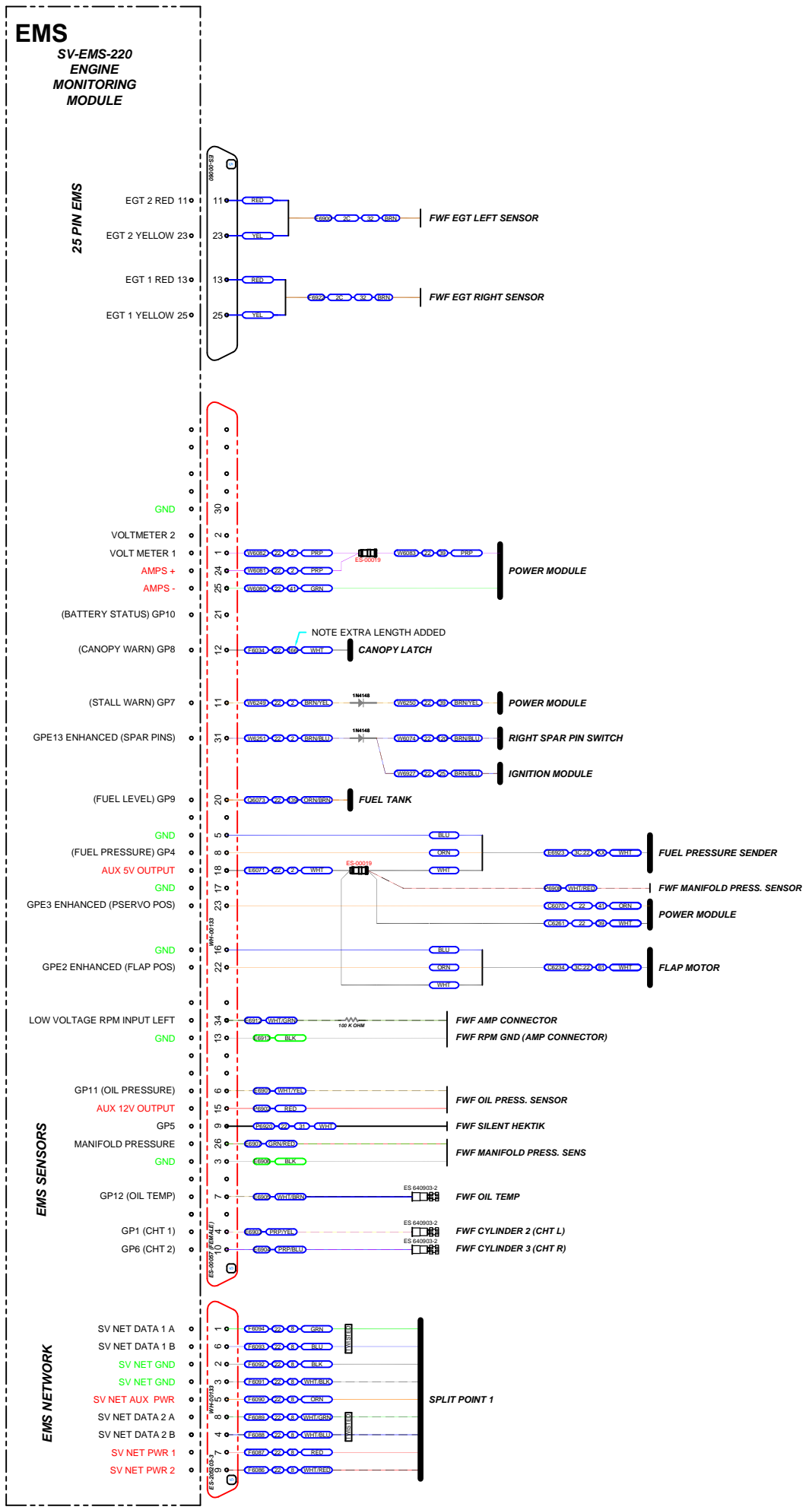


TRIM MOTOR



	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NI AURORA, OR 97002 USA	
	ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 12/01/18 DRAWN BY: T. DE MAN TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	UNITS: INCHES SCALE: NONE	WH-00139 PAGE: 6 OF 9 C-517F ORIGINAL

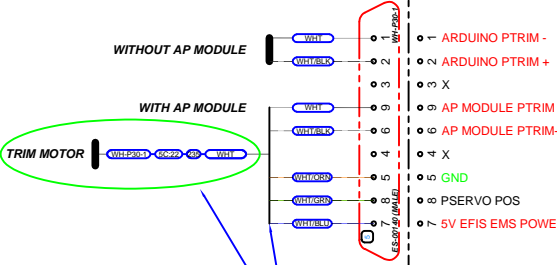
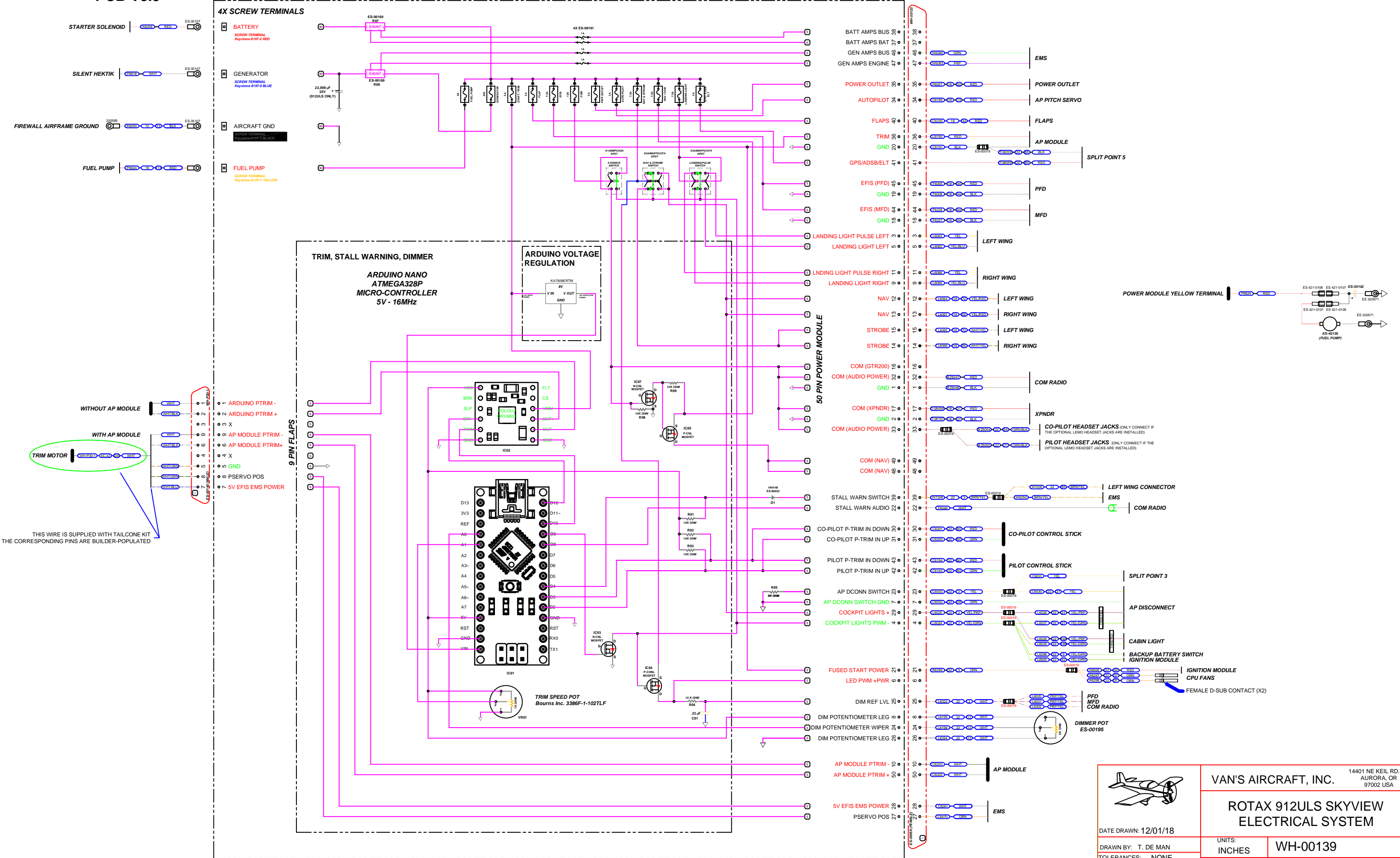
REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
R5	SEE PAGE 1		




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<small>DATA FILE: ENAMEL: C:\REV_17\Systems_VR\Electrical System_VR\Electrical System 01218.R Sketch: ABA\011701.DWG C:\S17F ORIGINAL</small>		

AV-60000 POWER MODULE iS-ULS PCB V3.3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
R5	SEE PAGE 1		





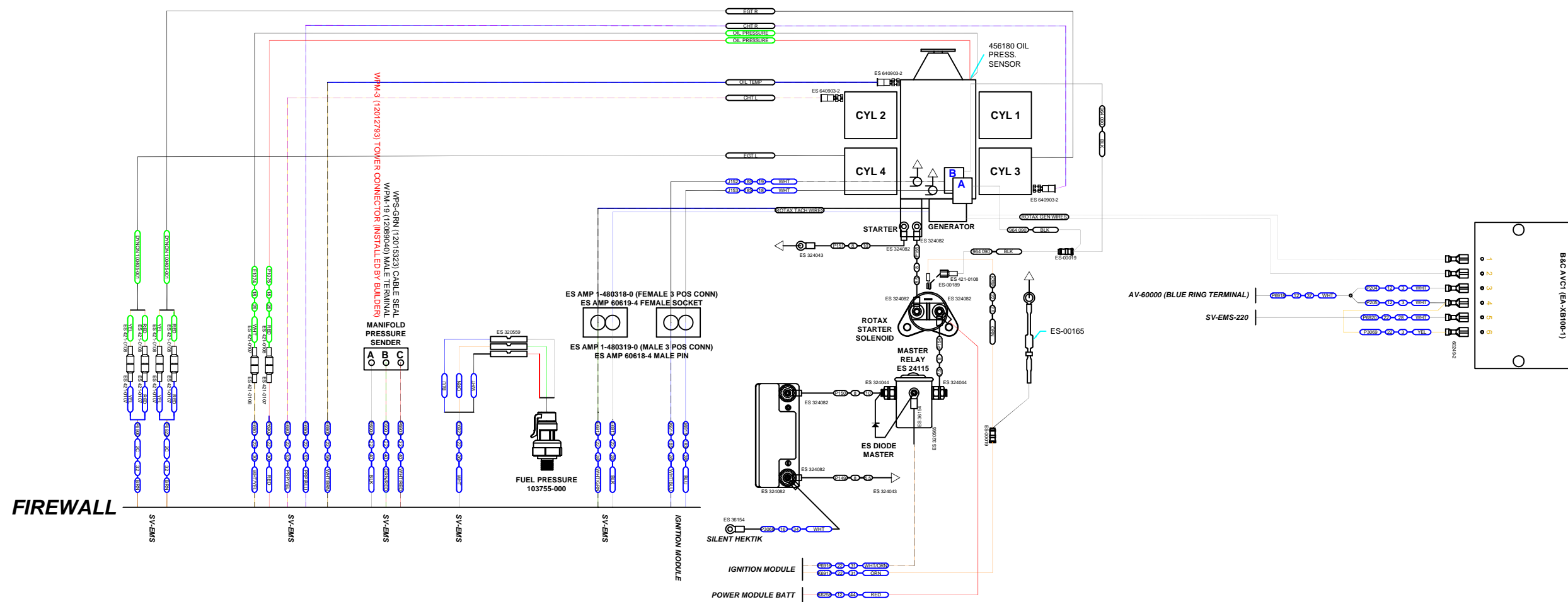
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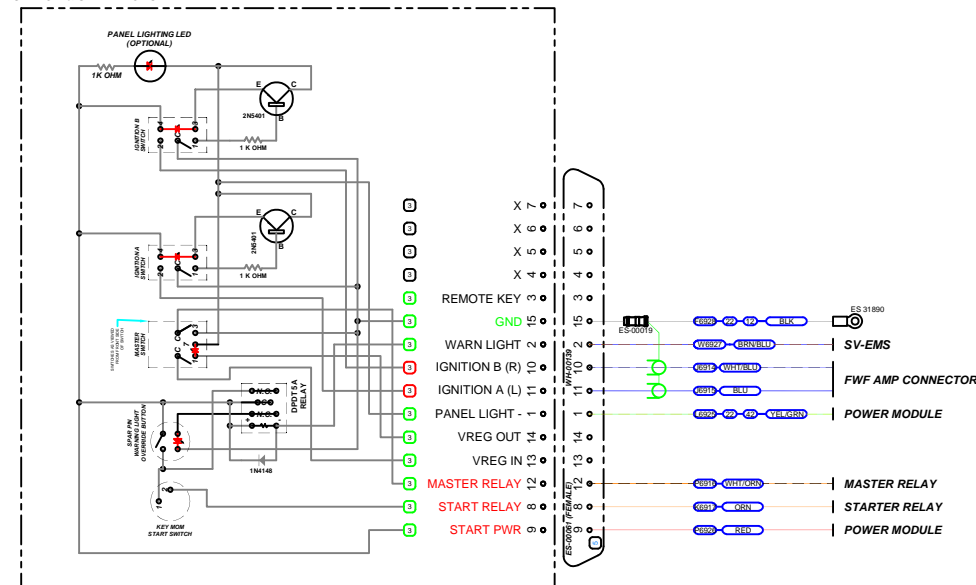
ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM


DATE DRAWN: 12/01/18		UNITS:	WH-00139
DRAWN BY: T. DE MAN		INCHES	
TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)		SCALE: NONE	PAGE: 8 OF 9

DATE PLOTTED: ENAMEL: C:\N\178\Customers\10\Electrical System\10\Electrical System 01218 R RotaxView AW60000.DWG C:\S17F ORIGINAL



AV-50002
IGNITION & START MODULE



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	ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM	
DATE DRAWN: 12/01/18	UNITS: INCHES	WH-00139
DRAWN BY: T. DE MAN	TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)	SCALE: NONE PAGE: 9 OF 9
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