

R0	INITIAL RELEASE	12/01/18	TDW
R1	ON PAGE 9 "EA-F4122" WAS "EA-F4120"	12/18/18	RLJ
R2	ADDED PANEL_PTT	01/04/19	TDW
R3	W7205 WAS W6077.	11/08/19	BPV
R4	MINOR CORRECTIONS	02/14/20	BPV
R5	EMWS 37-PIN INCORRECT SWAPPED PINS 24 & 25	05/07/20	RMC
R6	REPLACED FUEL PRESSURE SENSOR 101690-000 WITH 103755-000		
R6	ON PAGE 9 "EA-XB100-1" WAS "EA-F4122", DELETED P3067	XX/XX/XX	RBJ-

TRIG TY96 INTERNAL PRESETS

INTERCOM VOLUME:	
AUX IN VOLUME:	
MUSIC IN VOLUME:	
SIDETONE VOLUME:	
INTERCOM SOLCH:	
MIC 1 GAIN:	
MIC 2 GAIN:	
RADIO SOLCH:	

TRIG TY96 INTERNAL PRESETS

7/96 PRESET NOTES:
 -SET FREQUENCY STEP SIZE APPROPRIATE FOR REGION.
 -ALL SETTINGS NOT DEFINED BY THIS DRAWING ARE ACCEPTABLE AS CONFIGURED FROM MANUFACTURER.

GTR 200 INTERNAL PRESETS

MENU BUTTON OPTIONS:	
- MUSIC VOL:	75%
- ICSS SOLCH:	AUTO
- COM MUTE:	OFF
- ICSS MUTE:	OFF
- MUTE LEVEL:	FULL
- ICSS 9D:	ON
- COCKPIT NOISE:	NORMAL
- MUSIC BASE BOOST:	OFF
- MUSIC EQ:	OFF
- KEY BEEP VOL:	50%
- CONTRAST:	40

INTERNAL MENU SETTINGS	
- SIDETONE:	05
- MIC GAIN:	05
- RF SOLCH:	00
- MON SWAP:	00
- RPT ENABLE:	YES
- RECEIVE OUT GAIN:	100%
- AUX 1 SOLCH:	30%
- AUX 1 VOL:	50%
- AUX 1 MUTE:	NO
- AUX 2 SOLCH:	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 S19.2.60.

ELECTRICAL SYSTEM BENCH TEST PROCEDURE

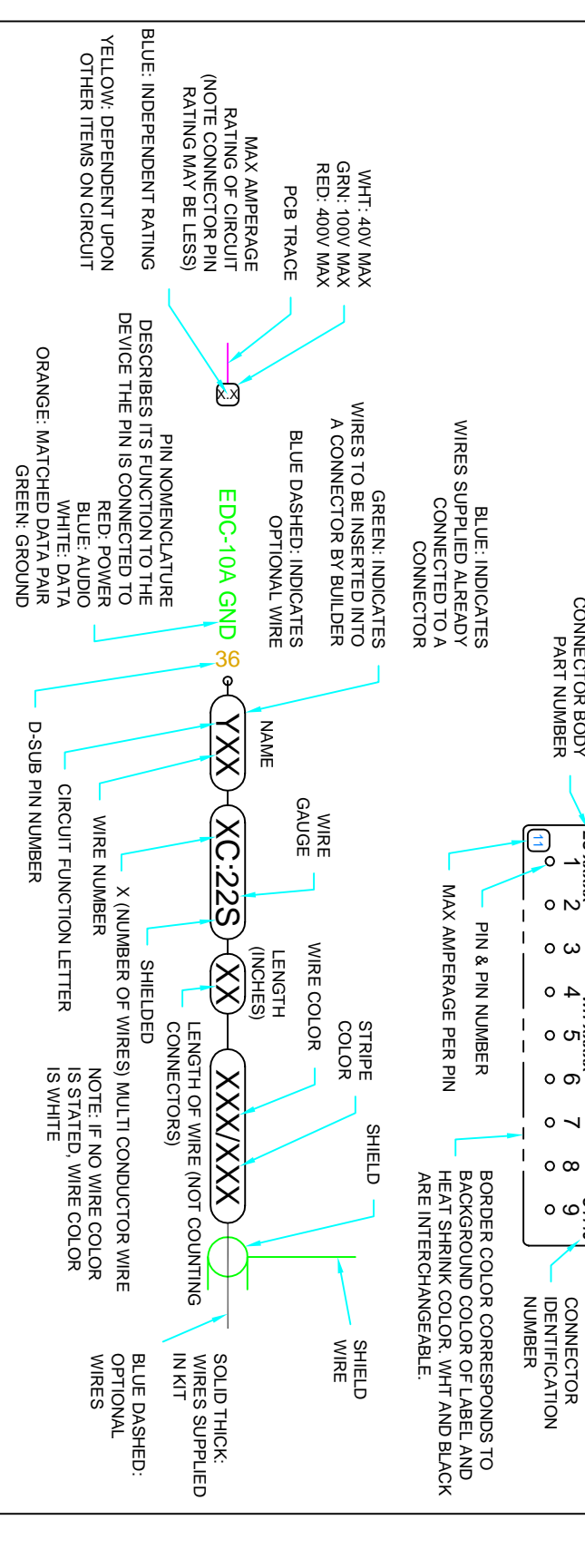
- Avionics Group**
- Check PFD & MFD Power On
 - SkyView Check PFD and MFD recognizes a USB stick
 - Install latest software and settings per the readme files (applicable portions) on the Van's Web Site
 - Setup X Pndr Hex Code
 - Setup AP servos if installed
 - Check PFD & MFD recognizes all LRUs
 - Check X pndr will transmit.
 - Check COM turns on
 - Check PFD recognizes COM, and can push frequencies to COM radio
 - Check Backup Battery Function PFD
 - If installed check AP Control Head function (Knobs function for SkyView as well)

- Audio Group**
- Configure COM radio in accordance with GTR 200 Internal Presets* or *Trig TY96 Internal Presets*
 - Check Pilot Headset Jack
 - Check Pilot Mic Jack for Xmit
 - Check Co-Pilot Headset Jack
 - Check Co-Pilot Mic Jack for Xmit
 - If installed check XM music output to headset

- Captain Group**
- NOTE: If customer has selected the pre-wired stick option then use their control sticks
- Check Pilot TX Button
 - Check Pilot Trim Buttons (Both Directions)
 - Verify proper trim direction movement on screen indicator and servo with input
 - Check Co-Pilot TX Button
 - Check Co-Pilot Trim Buttons (Both Directions)
 - Verify proper trim direction movement on screen indicator and servo with input
 - Verify proper trim direction movement on screen indicator and servo with input

- Wing Group**
- Check Stall Warning
 - Check NAV/Stroke Lights
 - Check Landing Lights (both if applicable)
 - Check Wing Wag Function

DRAWING KEY



CIRCUIT LETTER FUNCTION

LETTER	CIRCUITS
C	CONTROL SURFACE
D	DISCONNECT
E	ENGINE INSTRUMENT
F	FLIGHT INSTRUMENTS
H	HEATING VENTILATING
J	IGNITION CONTROL
K	KEY LIGHTING
L	LIGHTING
P	POWER CONTROL
Q	RELAY
R	HEADPHONE
HZ	HEADPHONE
T	SPECIAL ELECTRONIC
TC	RADIO CONTROL
TP	TRANSPIRE
TR	TRANSMITTER
TO	TRANSMITTER RECEIVER
W	WARNING EMERGENCY

WIRE HARNESS NOTES

- USE M2759/16 OR M27500 TEFZEL AIRCRAFT WIRE. CONTACT VANS ABOUT USING OTHER EQUIV.
- USE MIL-H-29063 HEATSHRINK. CONTACT VANS ABOUT USING OTHER EQUIV.
- LABEL THE FLYING LEAD OF EACH WIRE WITH THE TRIANGULATED NOMENCLATURE AND WIRE NUMBER.
- CONNECT ALL 20/24 AWG WIRES TO D-SUBS USING ES-S401017 SOCKETS OR ES-5A-1018 PINS. PERMISSIBLE TO STRIP 18 AWG WIRE TO FIT ES-S401017 SOCKETS OR ES-5A-1018 PINS. ALL CRIMPS TO BE MADE PER MIL-C-22822F (1.22) USING A TYPE 1 TOOL.
- USE ONLY NON-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 VANS 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.

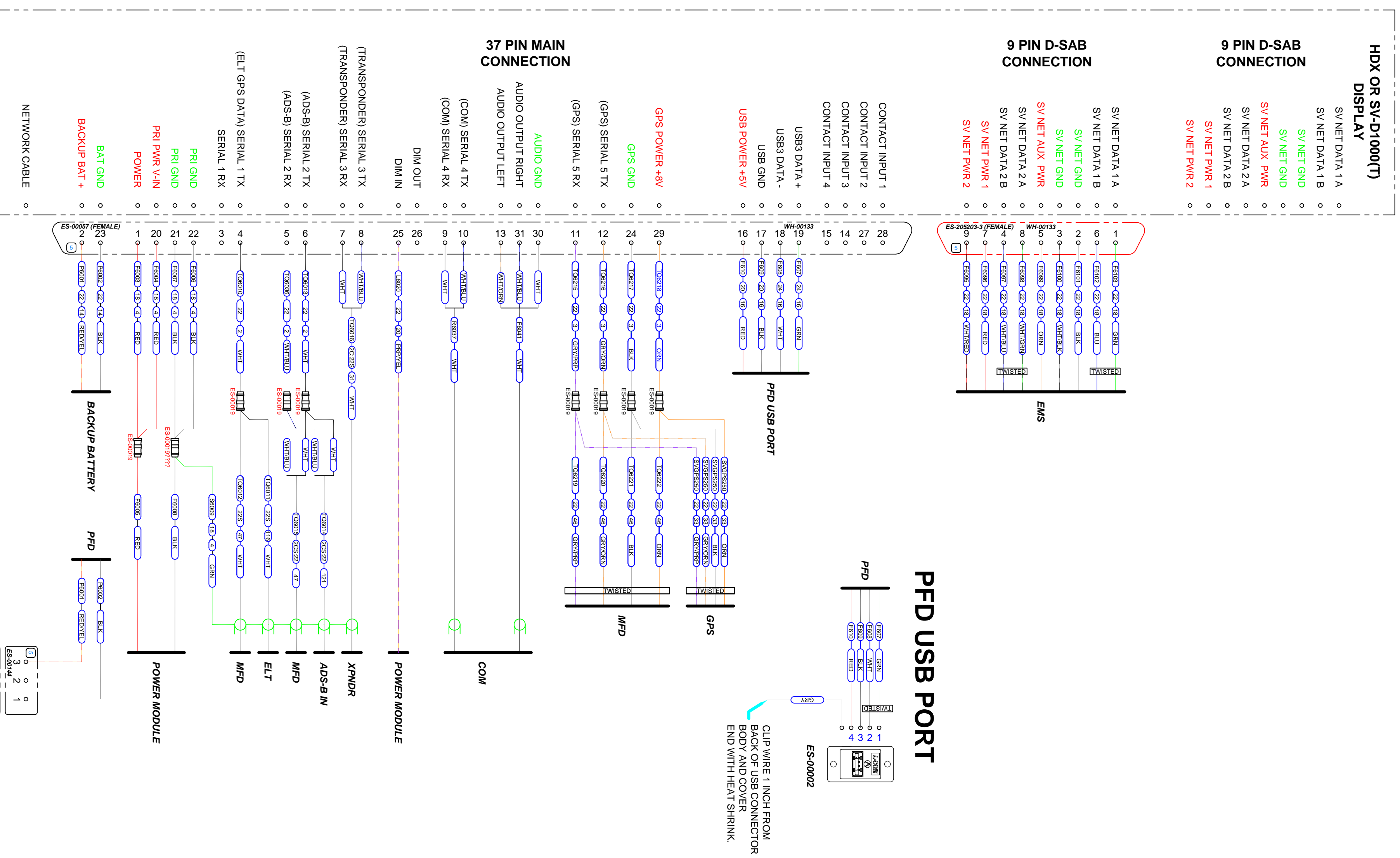


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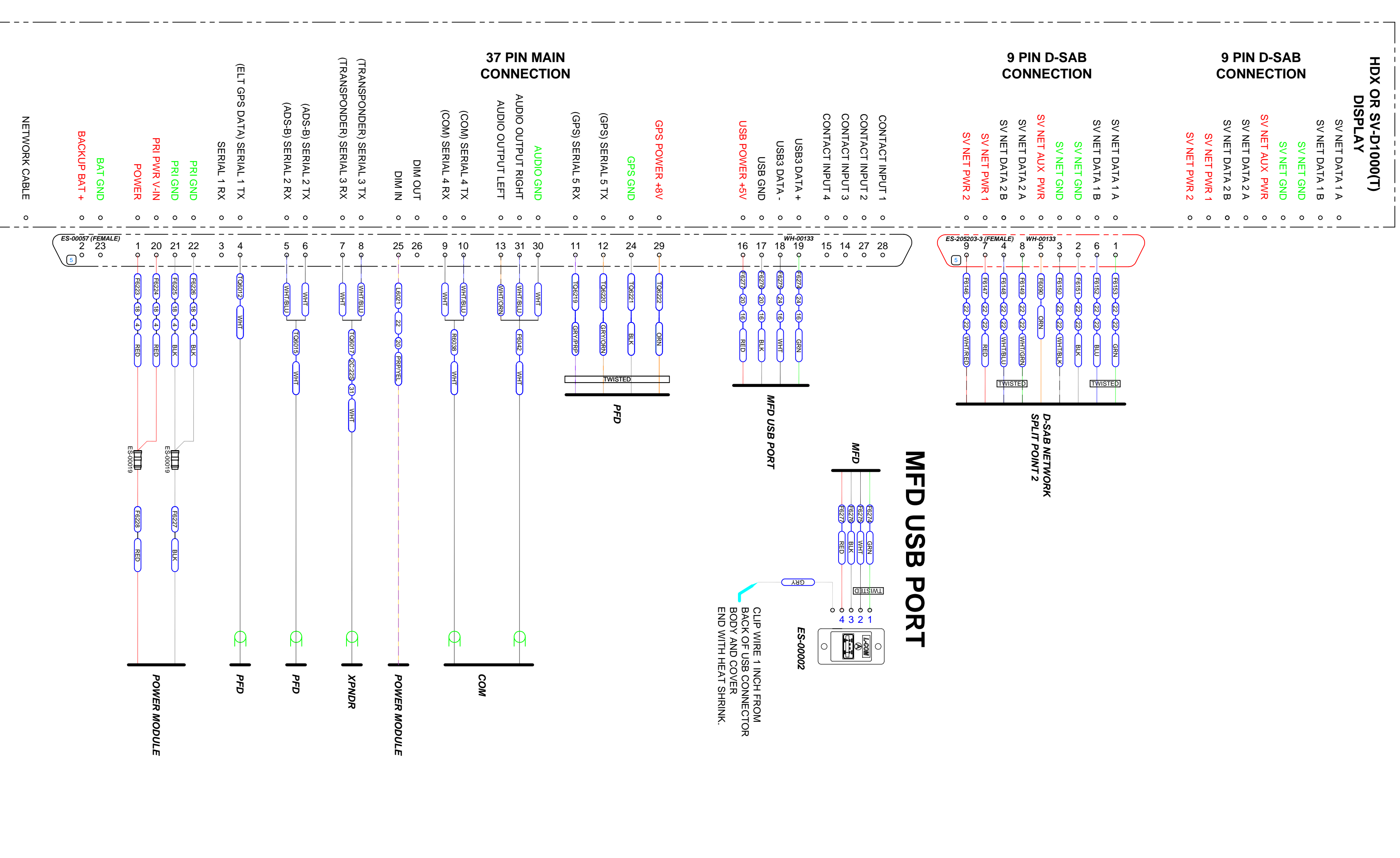
ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM

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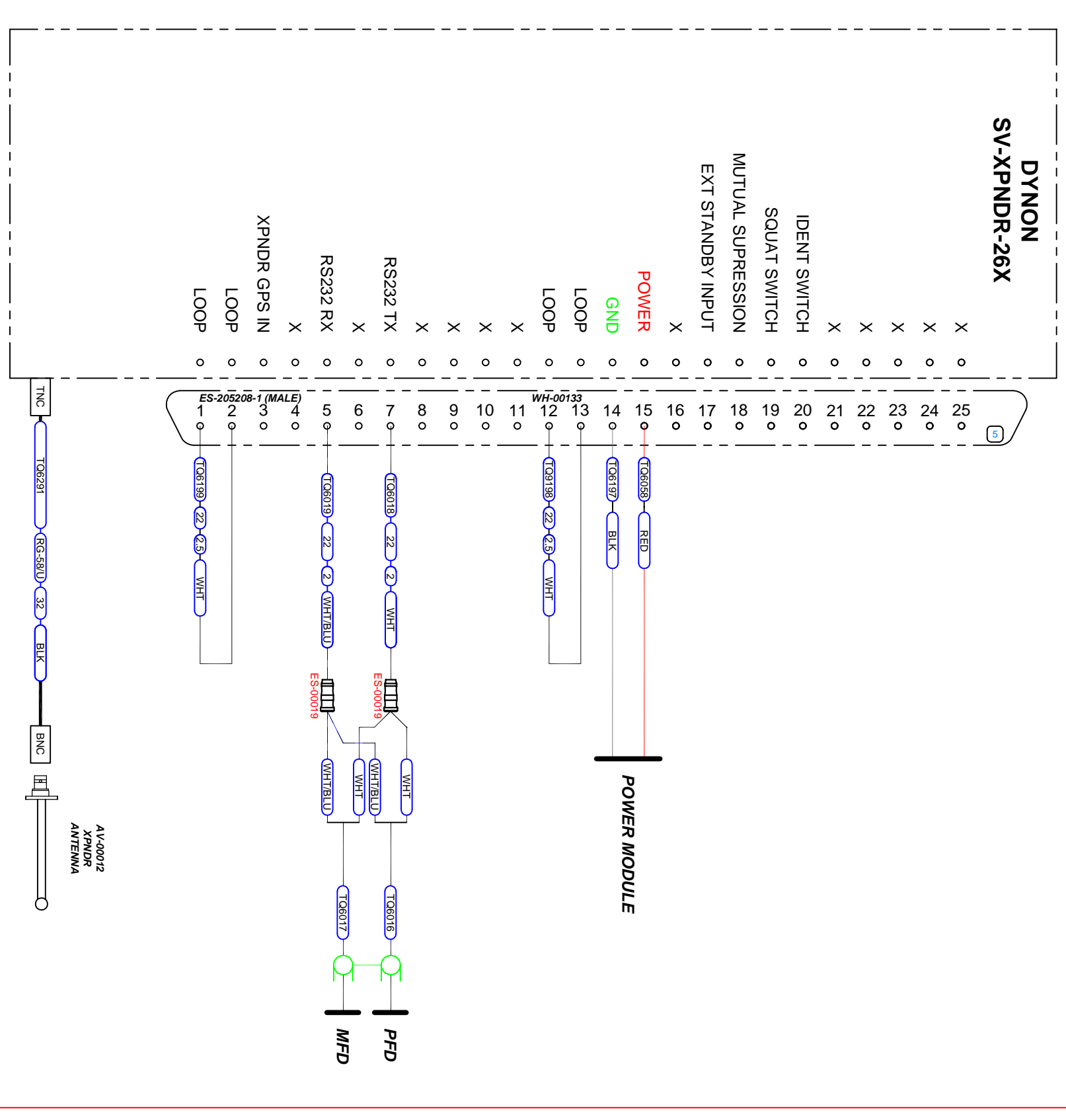
PFD



MFD



XPDR



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DATE DRAWN: 12/01/18

DRAWN BY: T. DE MAN

SCALE: NONE

PAGE: 2 OF 9

UNITS: INCHES

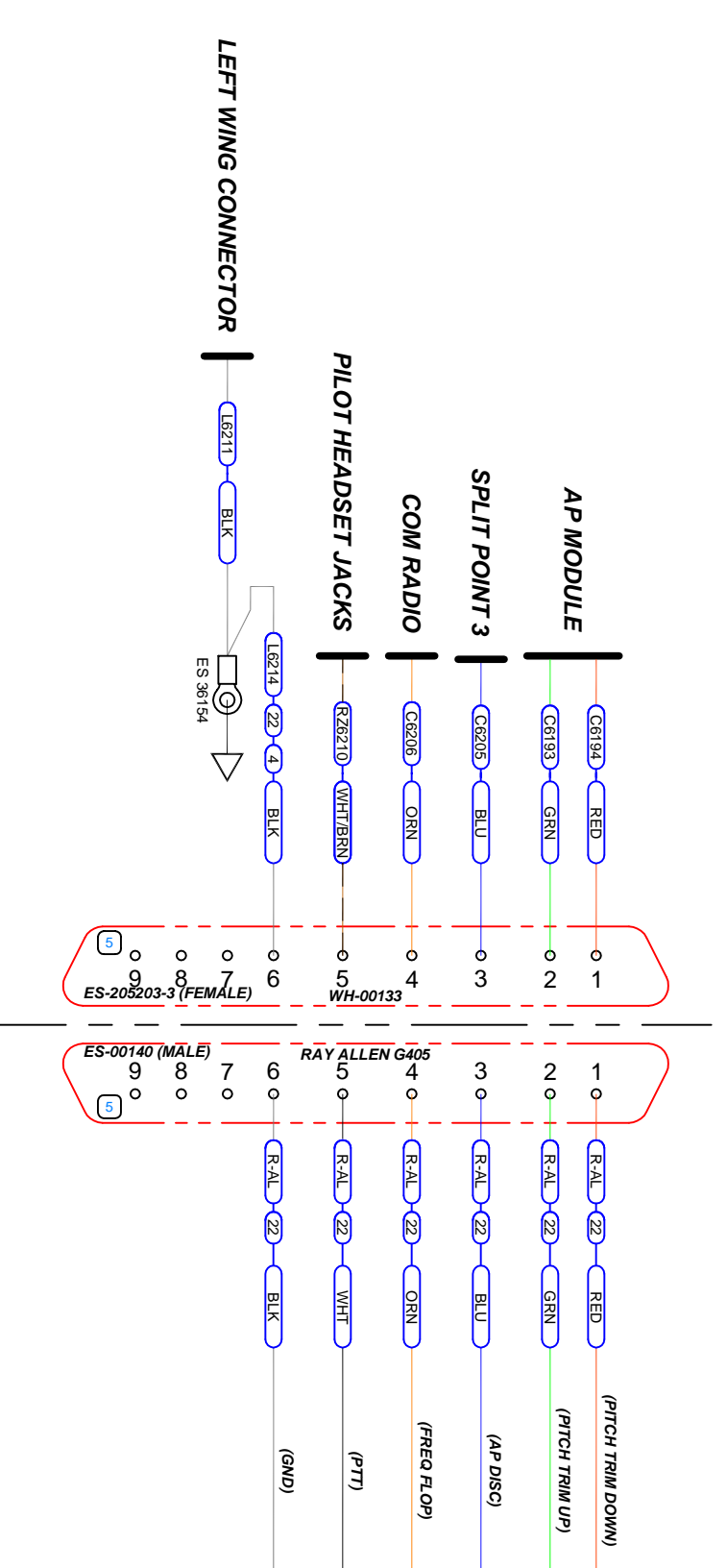
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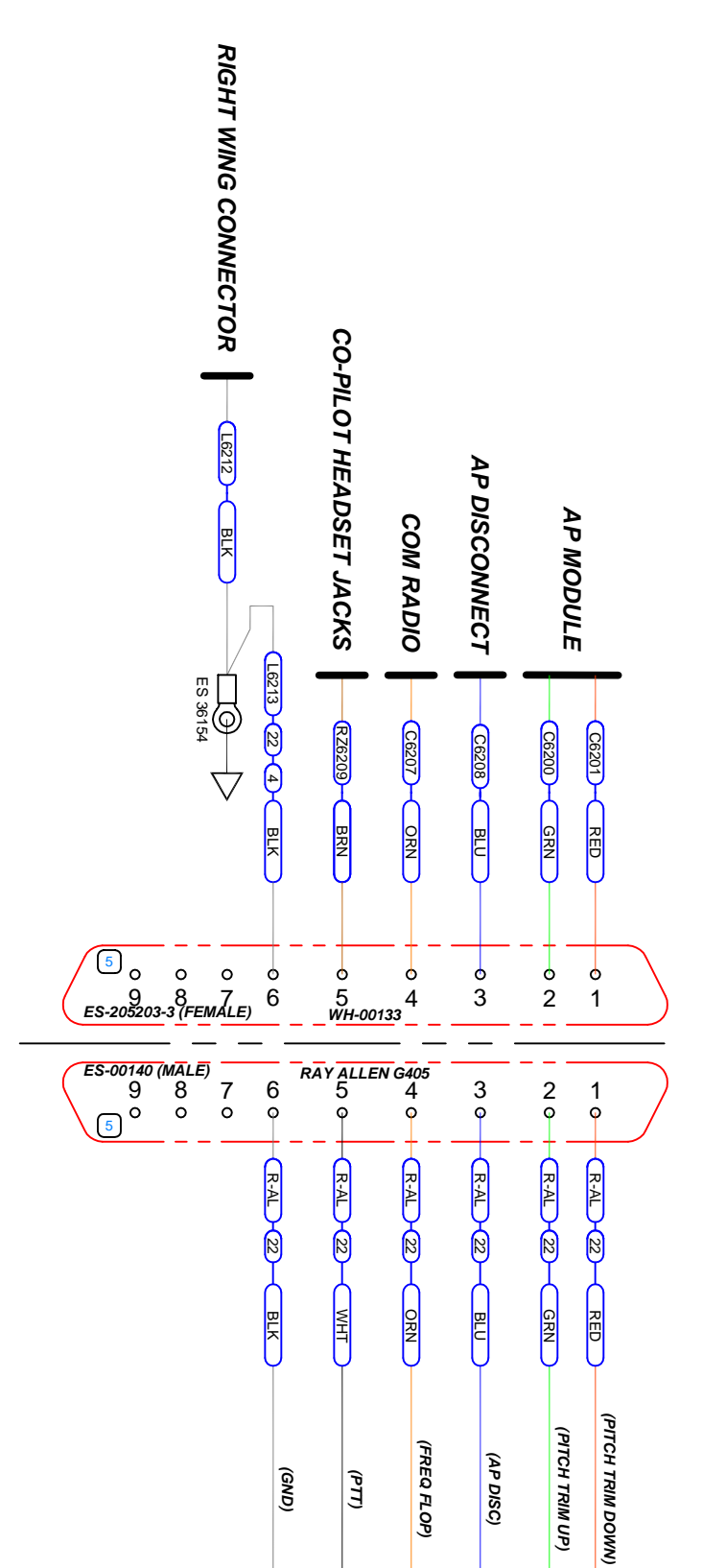
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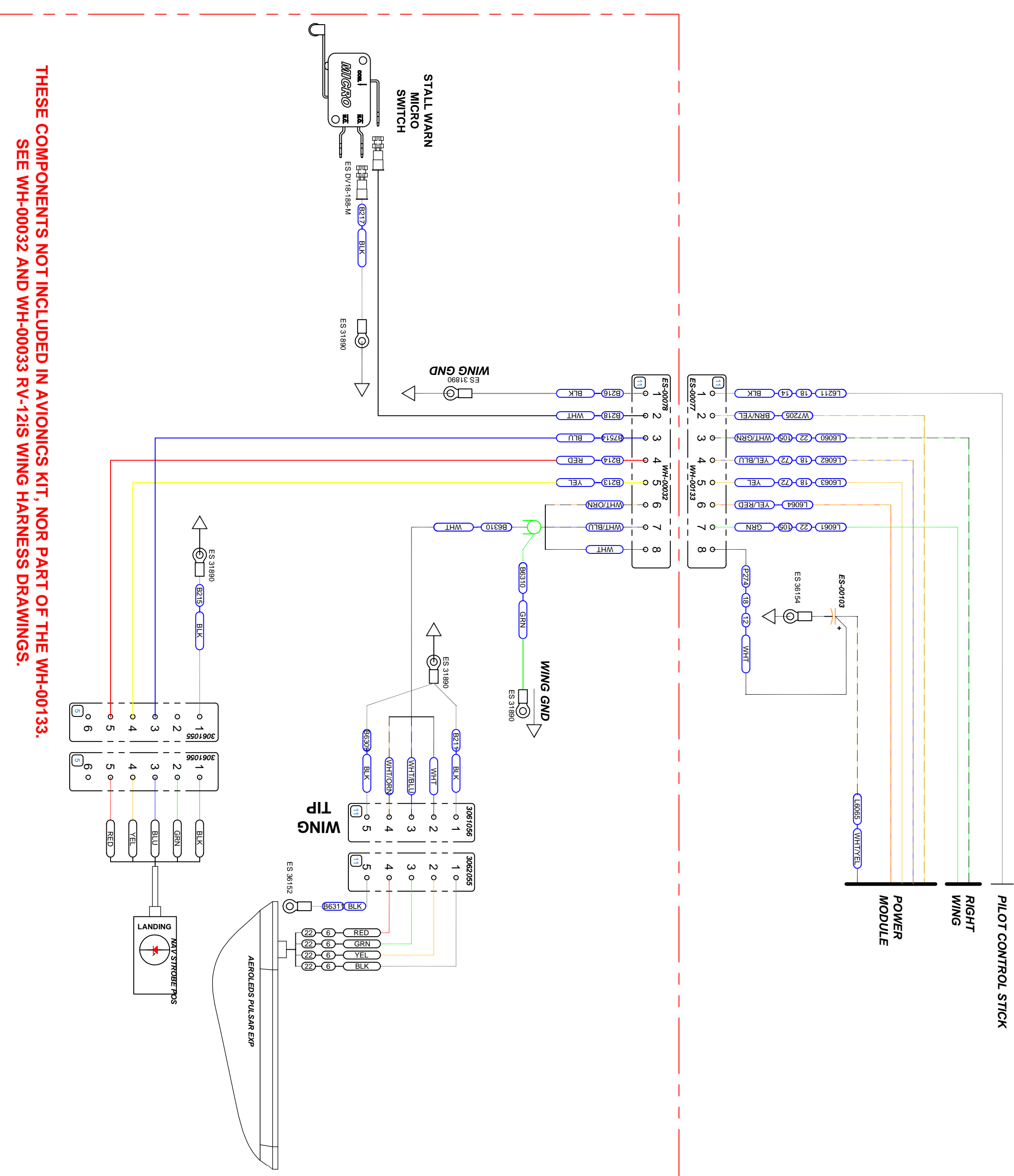
PILOT STICK GRIP



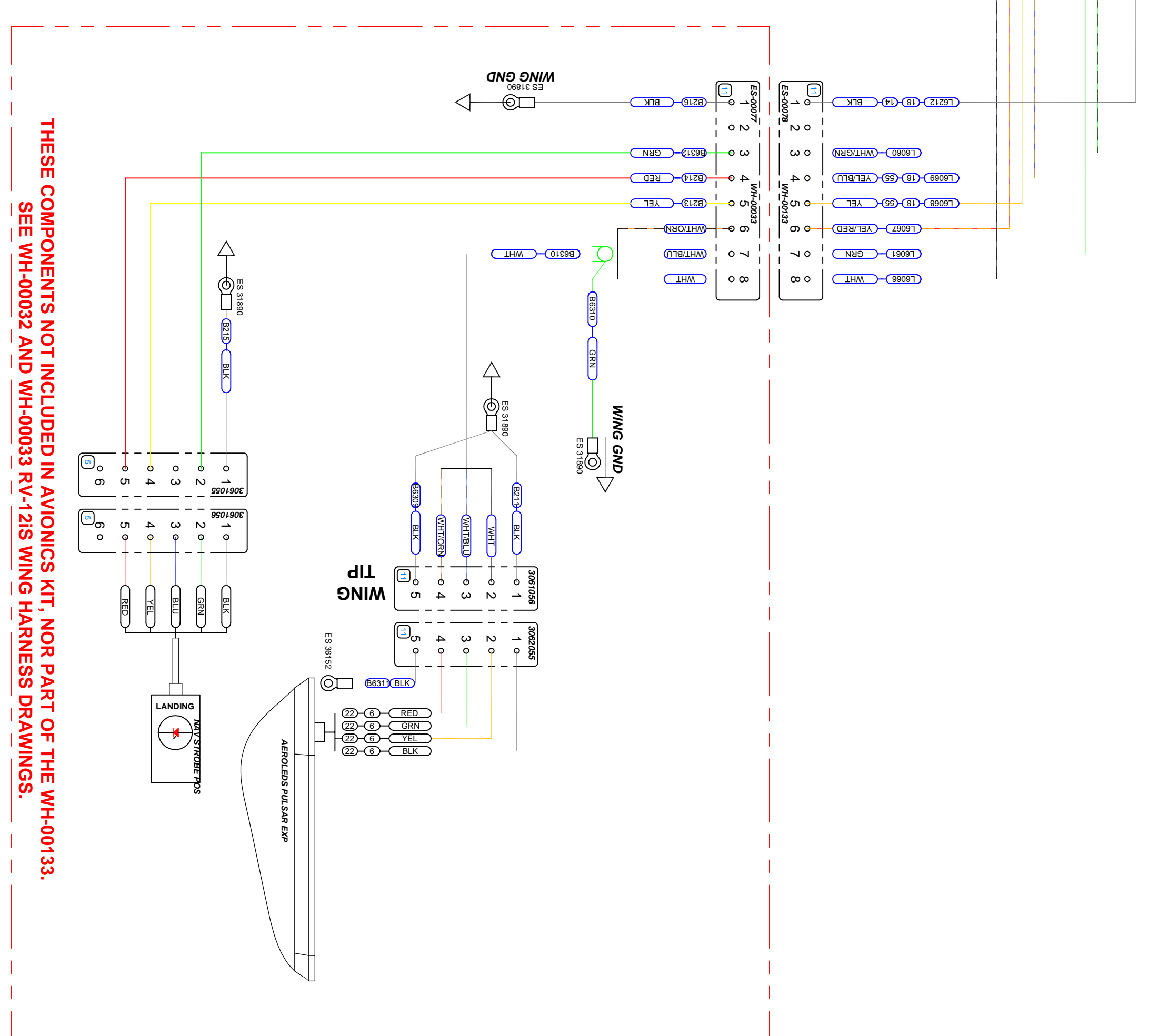
CO-PILOT STICK GRIP



LEFT WING CONNECTOR



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.

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



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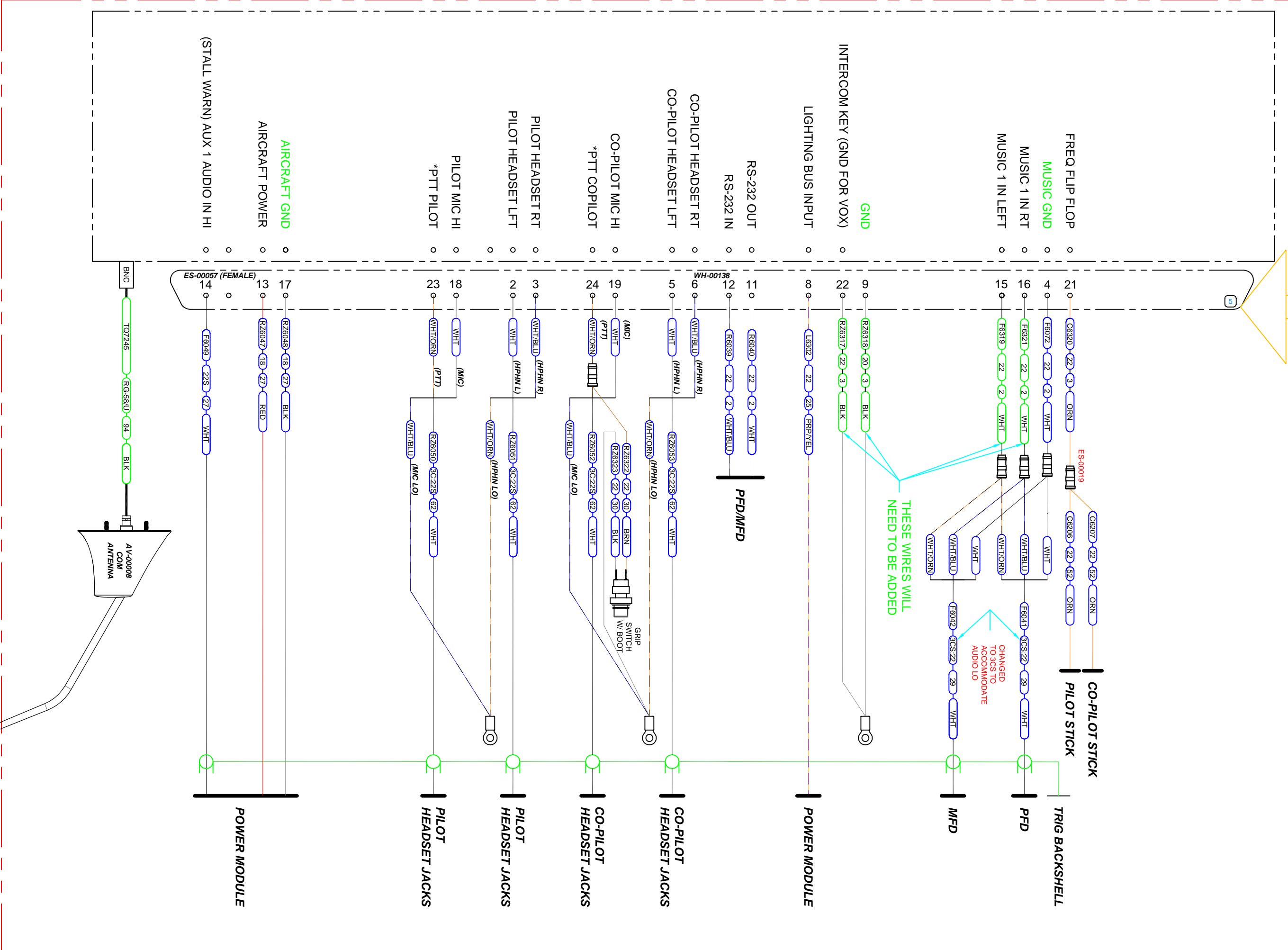
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USE TRIG BACKSHELL

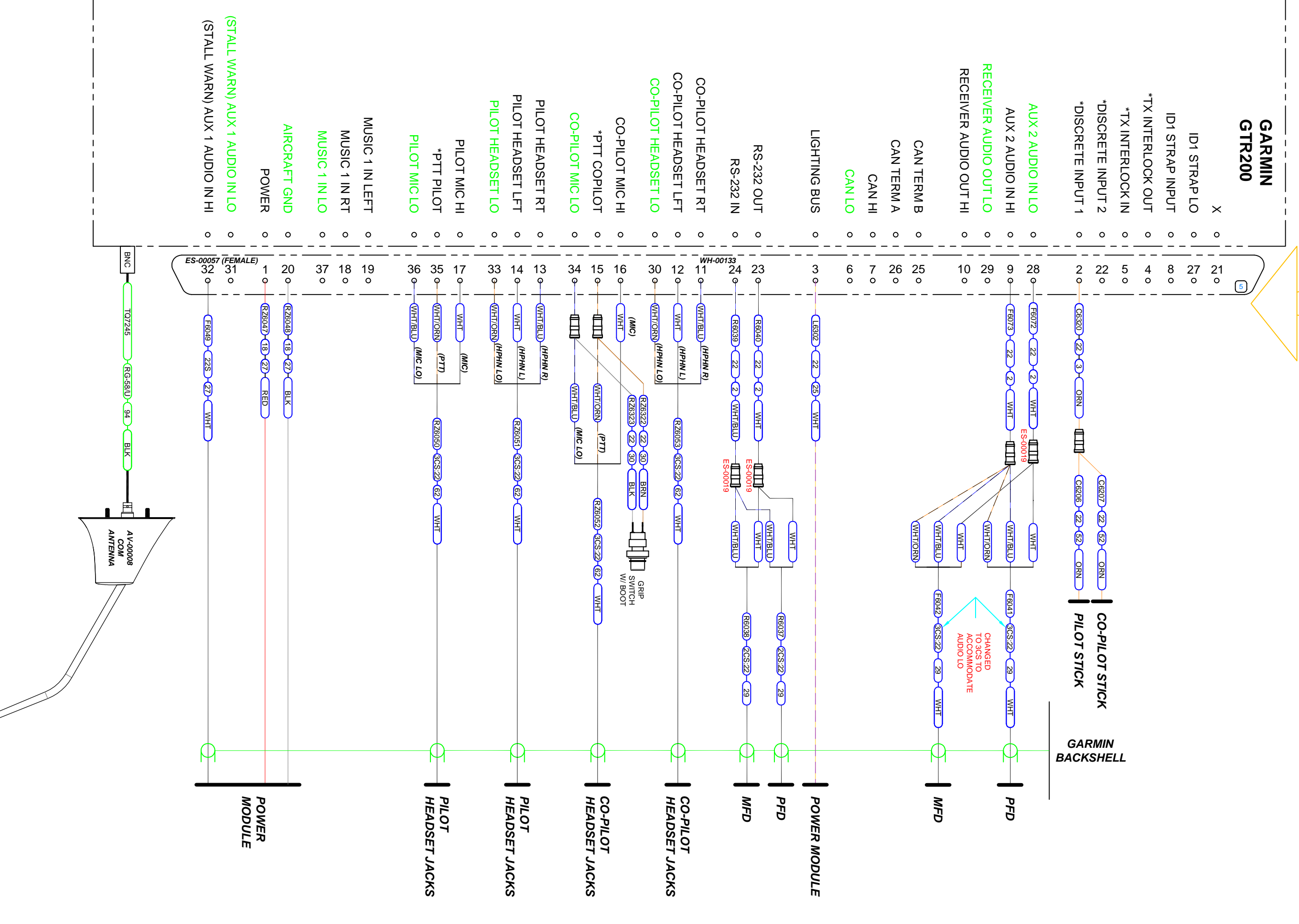
COM—TRIG TY96

- TRIG TY-96 USED FOR INTERNATIONAL AVIONICS KIT ONLY
- COVER UNUSED PINS WITH HEAT SHRINK AND SECURE TO HARNESS NEAR TY96 CONNECTOR

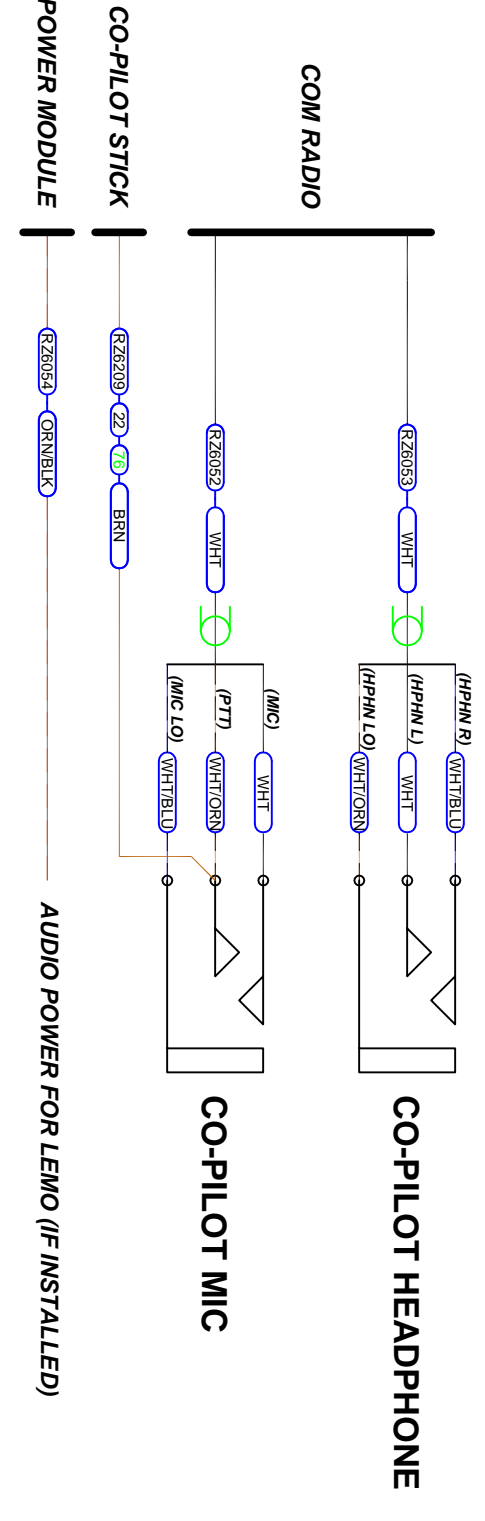


USE GARMIN BACKSHELL

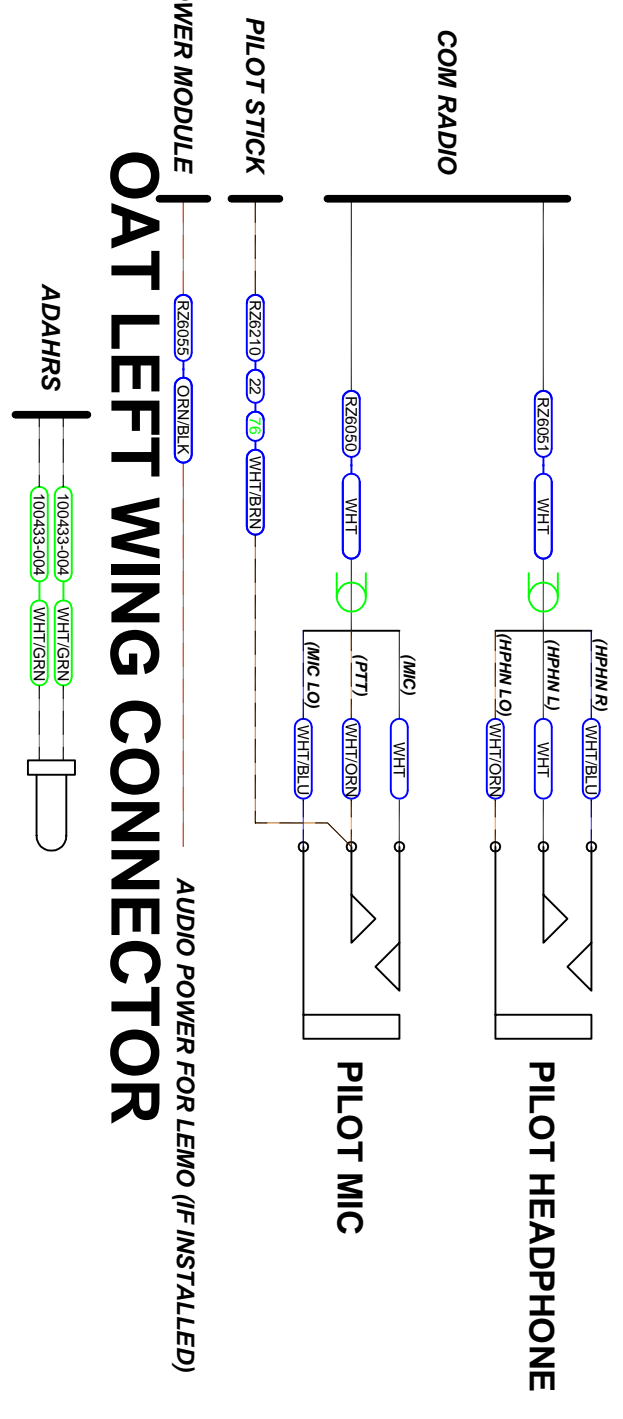
COM—GTR 200



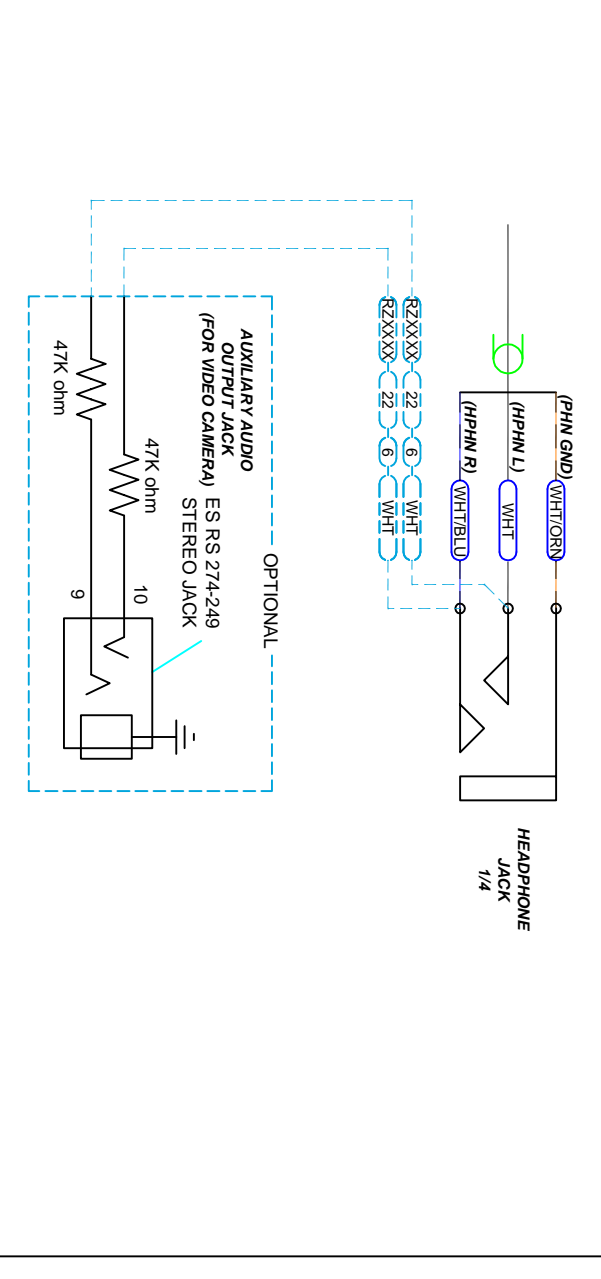
CO-PILOT HEADSET JACKS



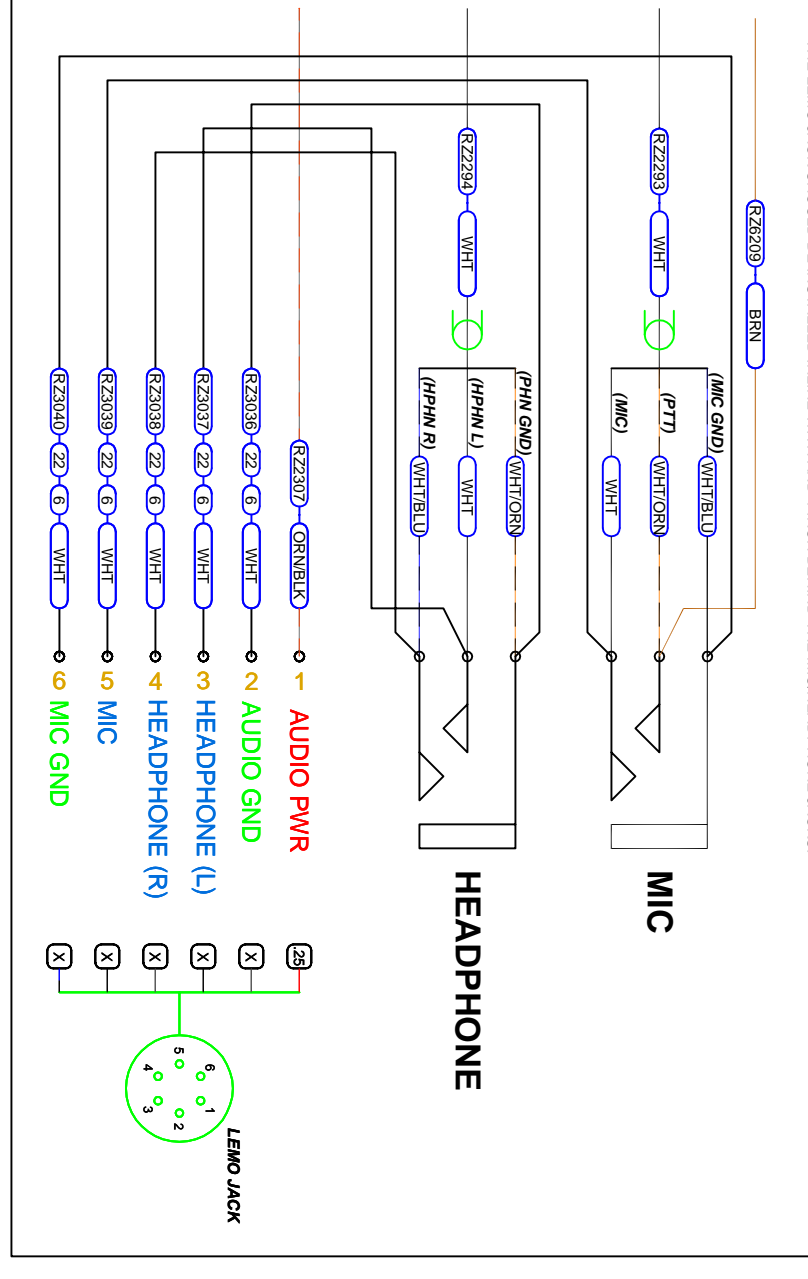
PILOT HEADSET JACKS



OPTIONAL AUDIO OUTPUT



OPTIONAL LEMO JACK

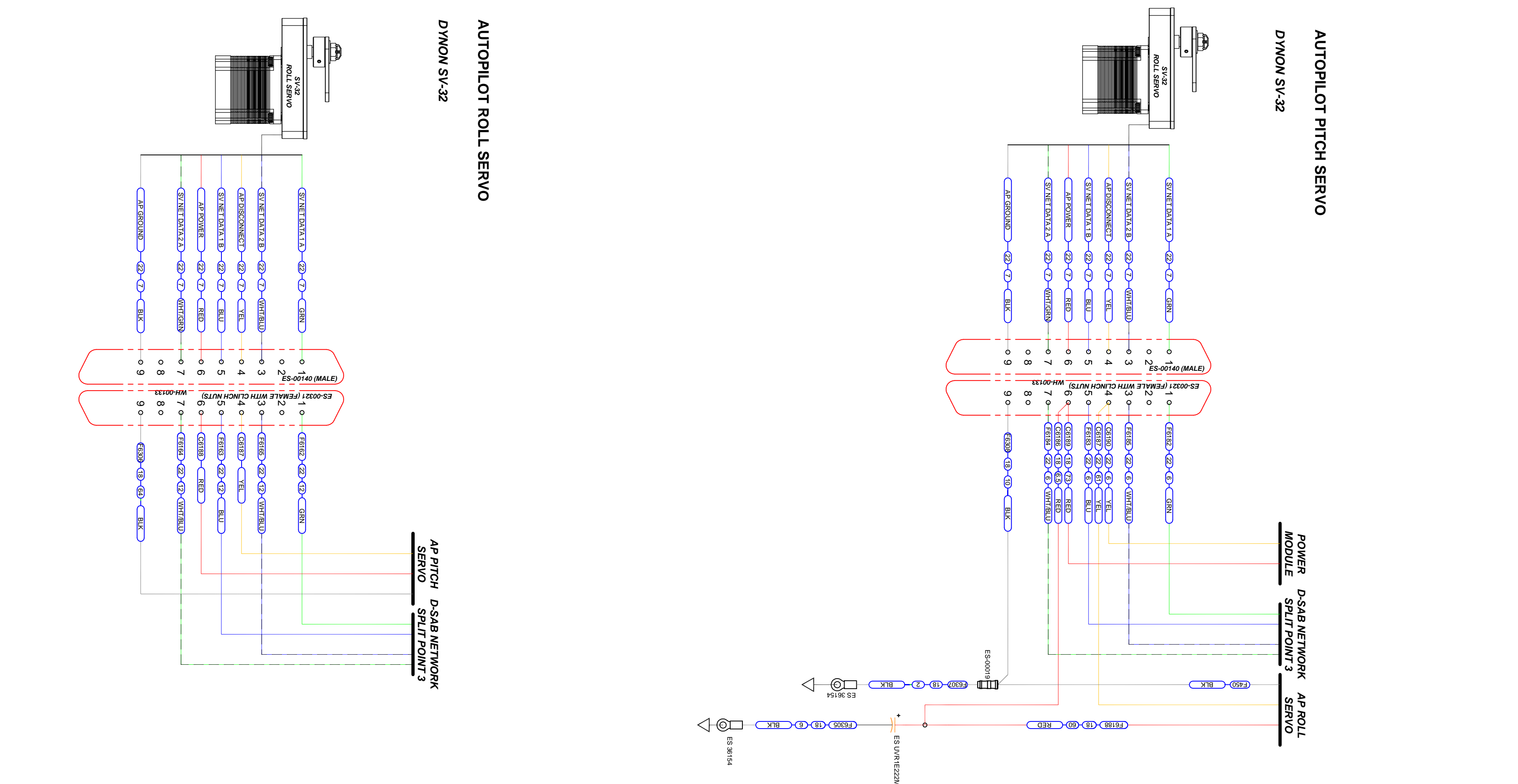
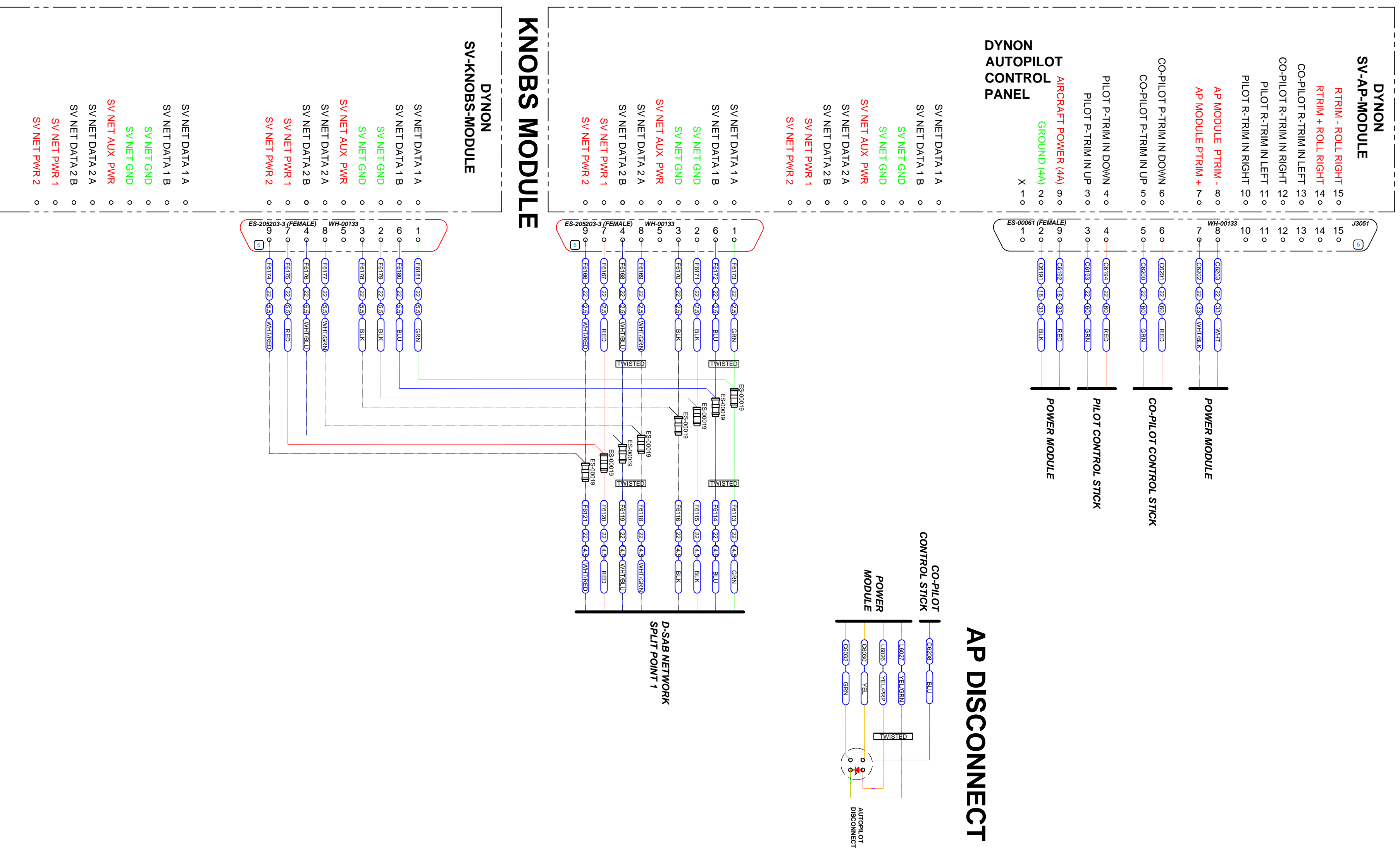


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AP MODULE



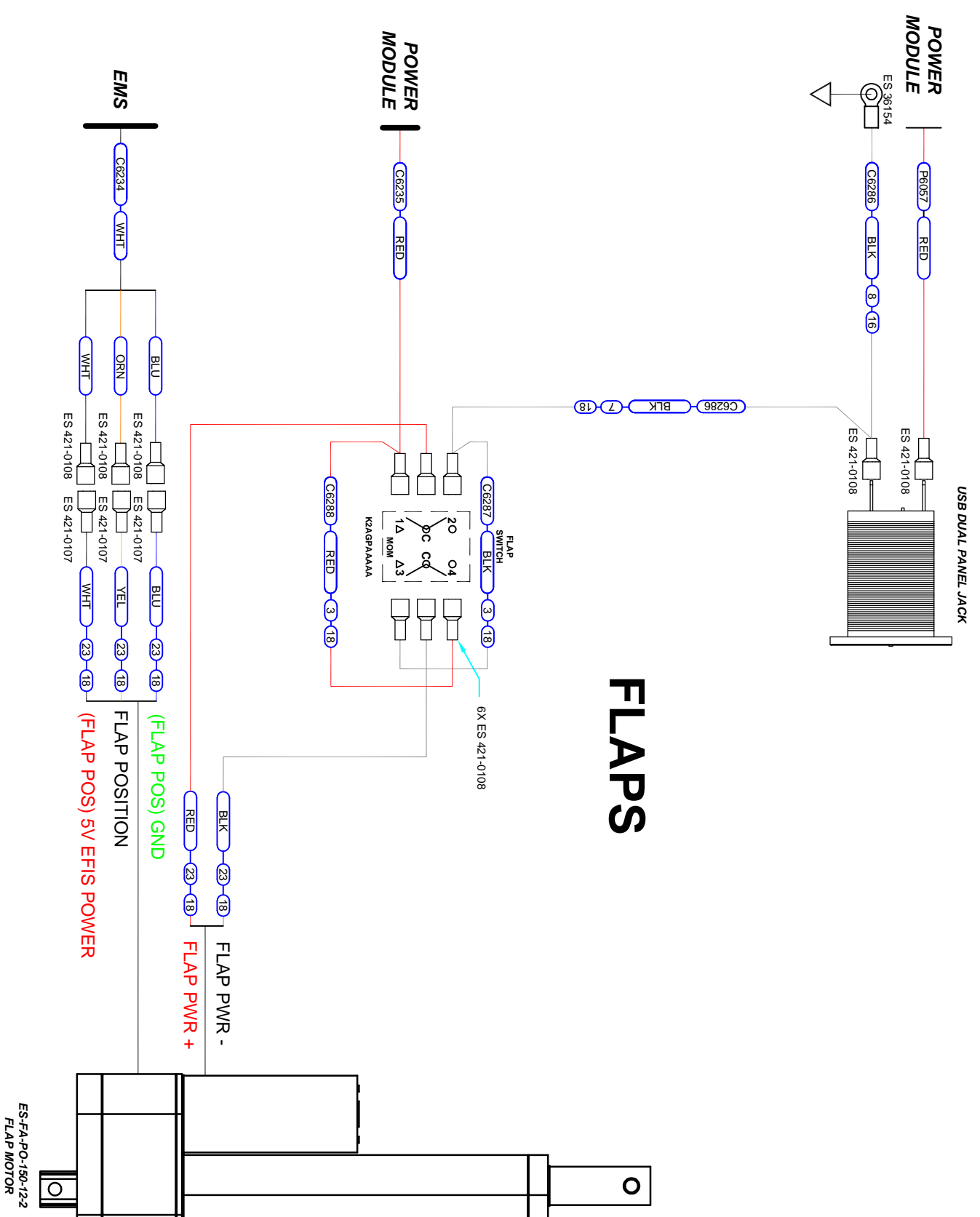
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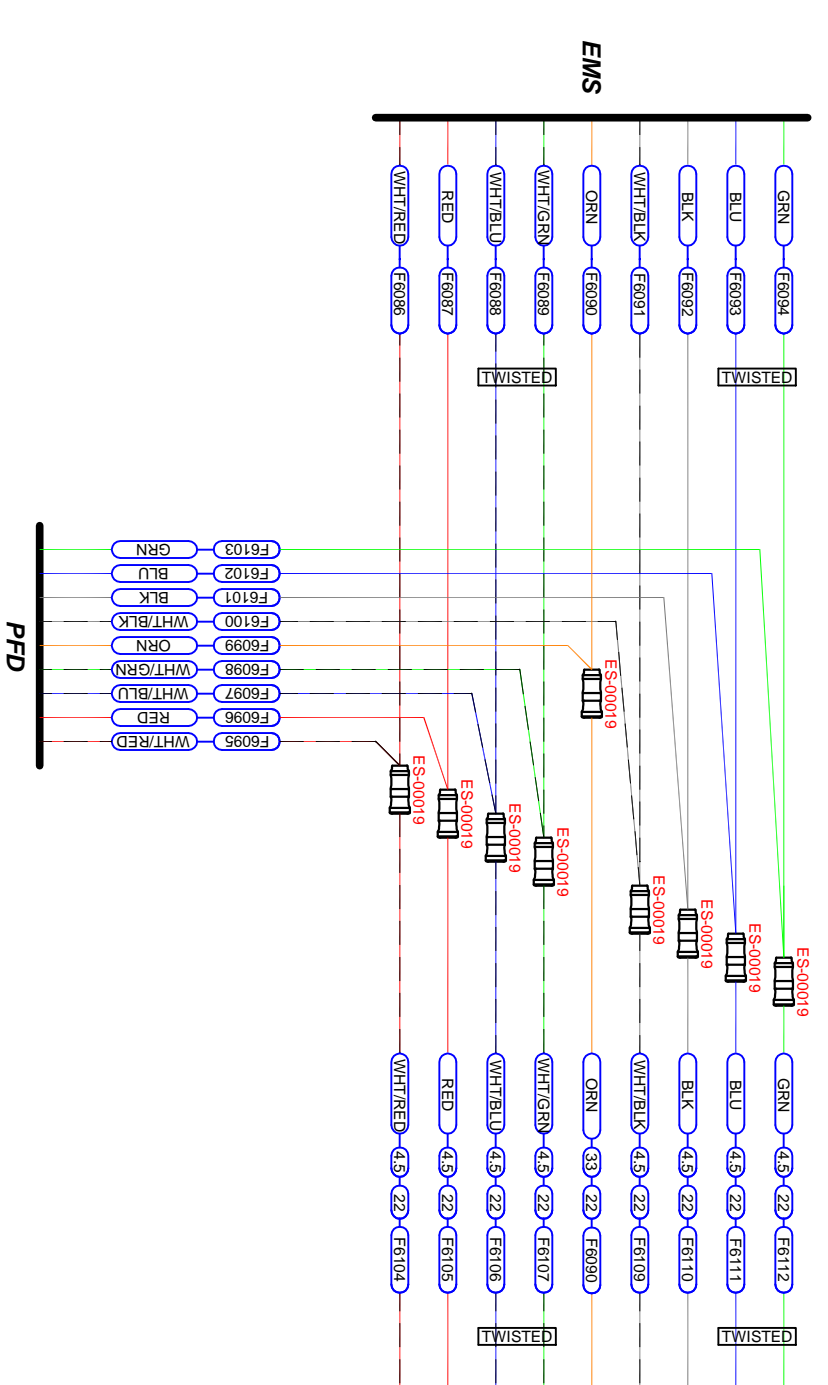
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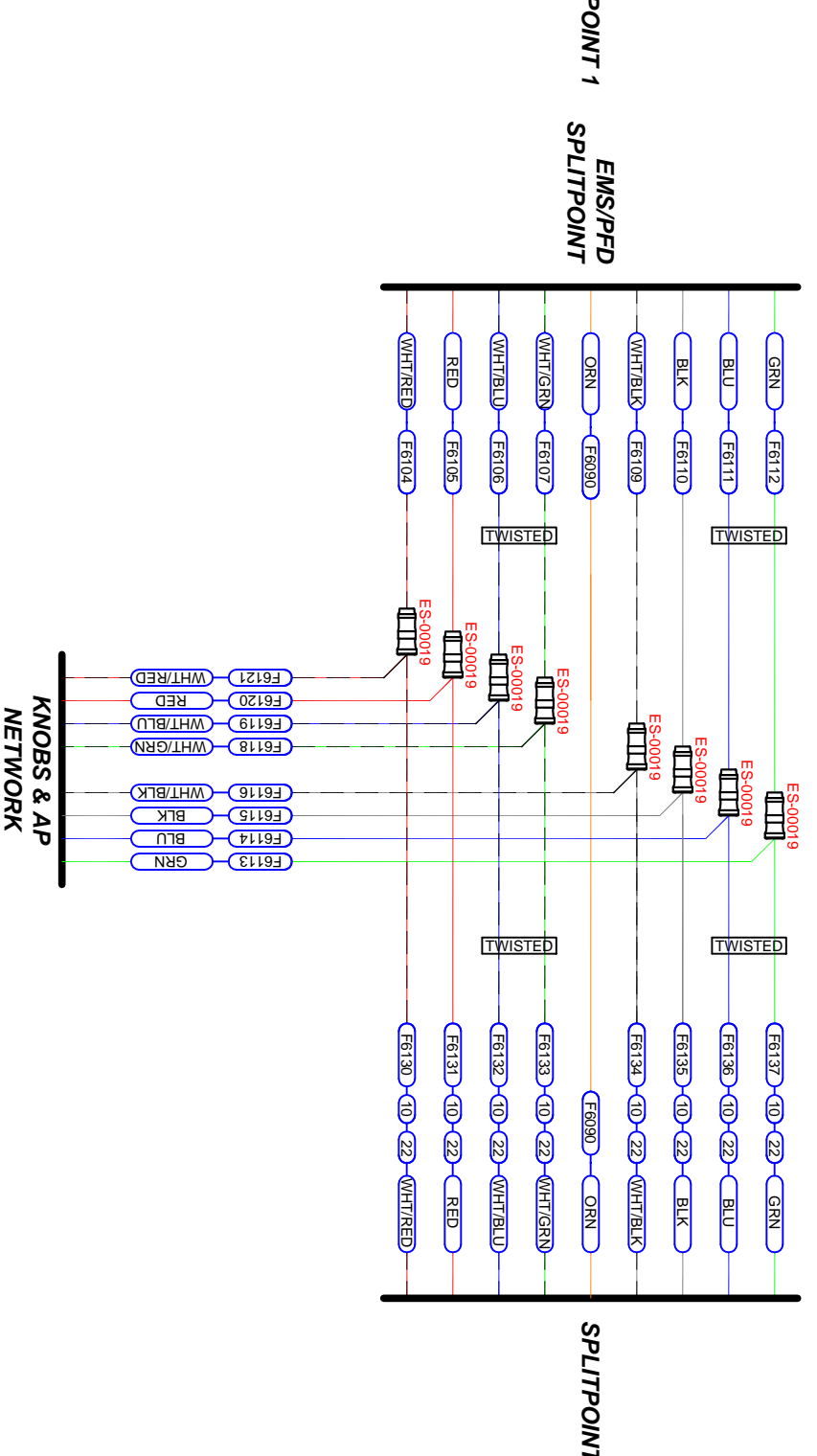
POWER OUTLET



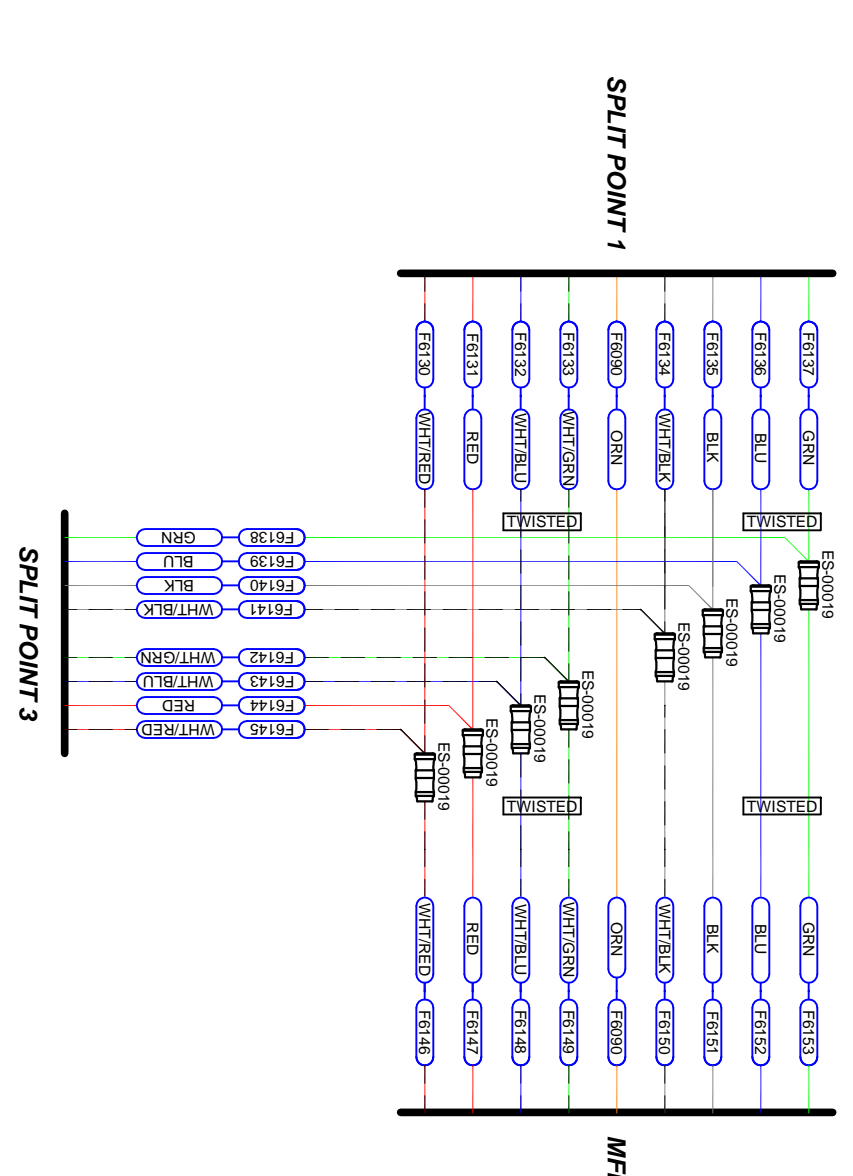
EMS/PFD SPLITPOINT



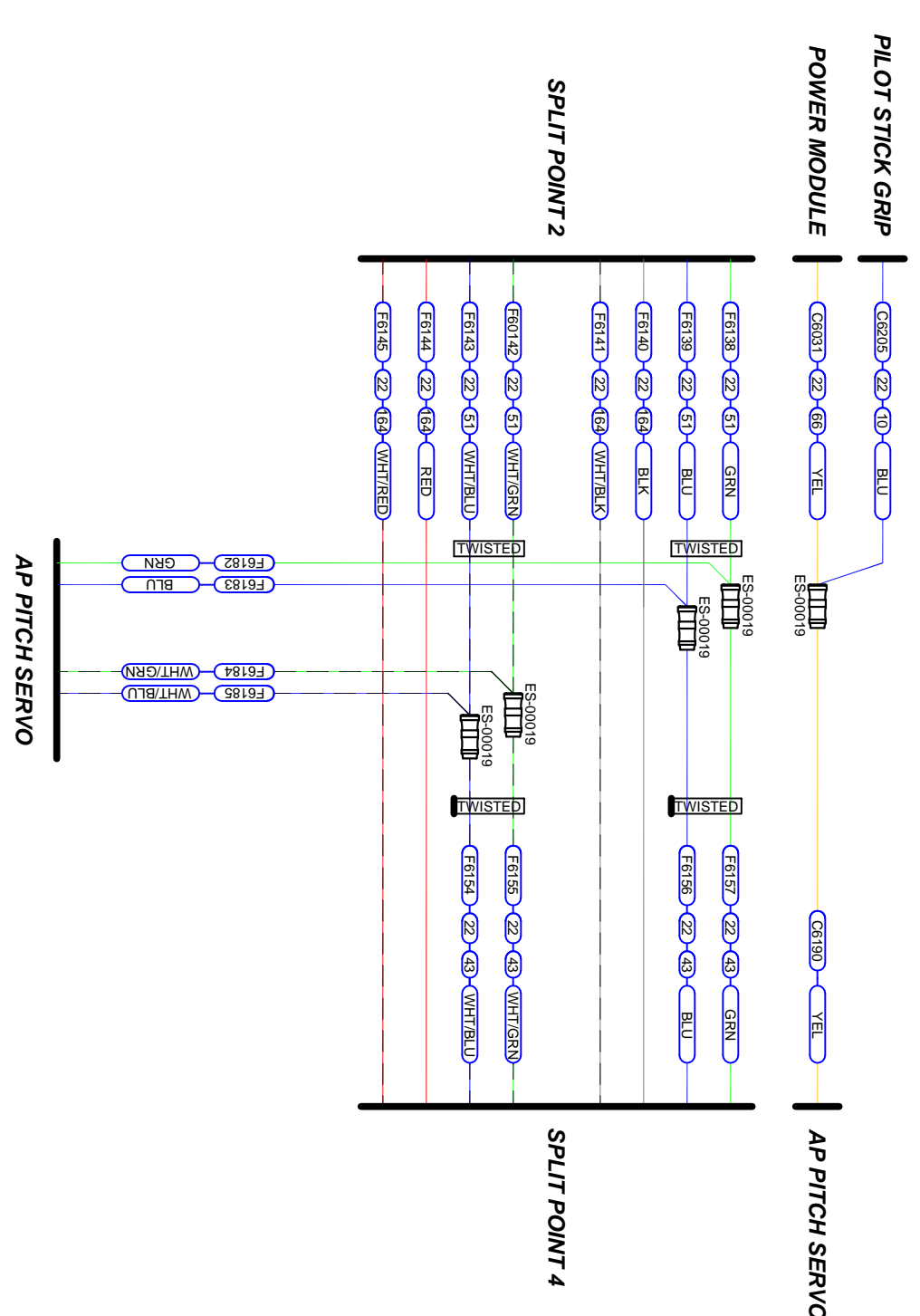
SPLIT POINT 1



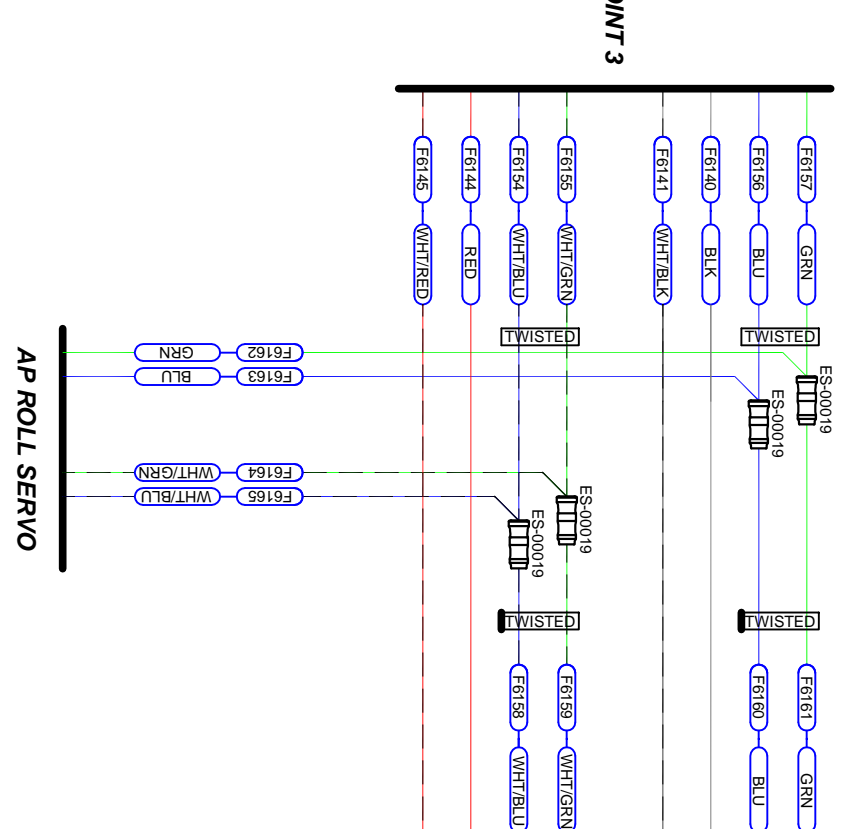
SPLIT POINT 2



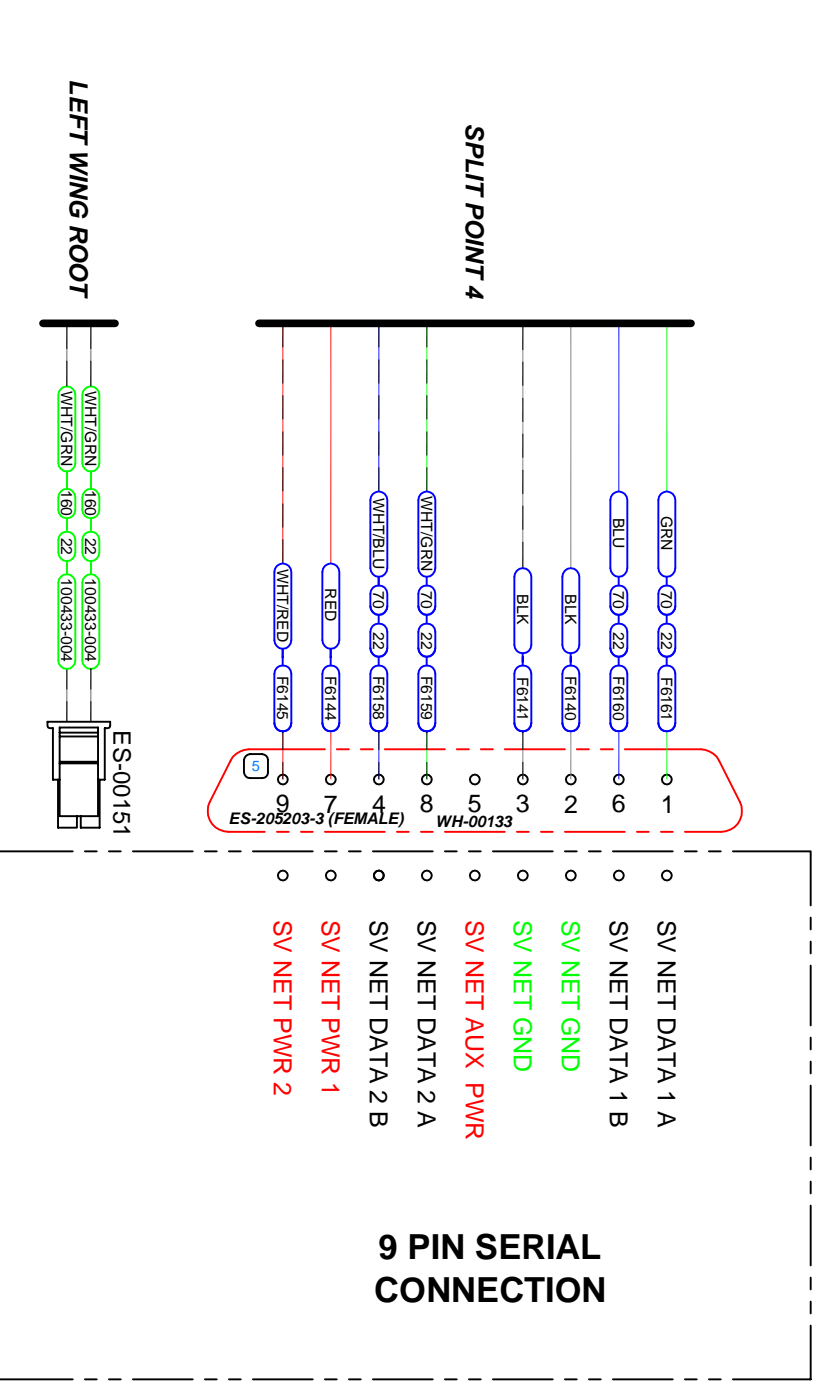
SPLIT POINT 3



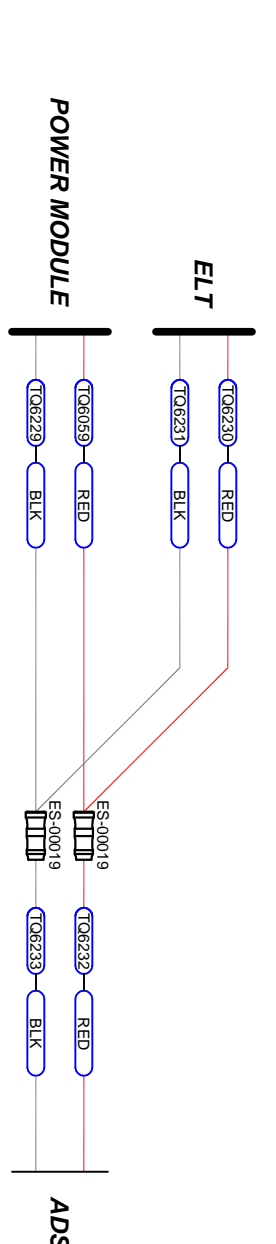
SPLIT POINT 4



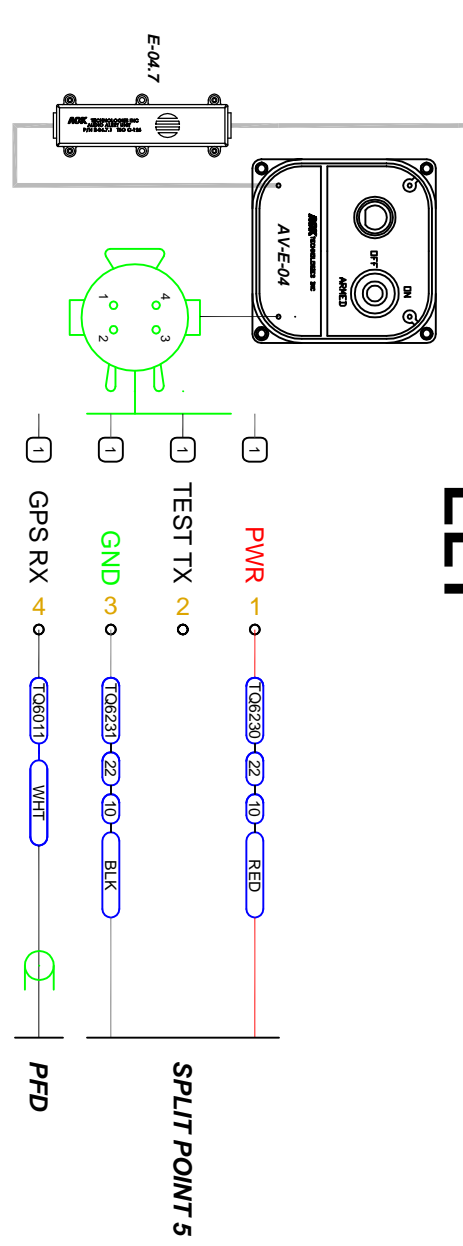
SV-ADAHRS-200



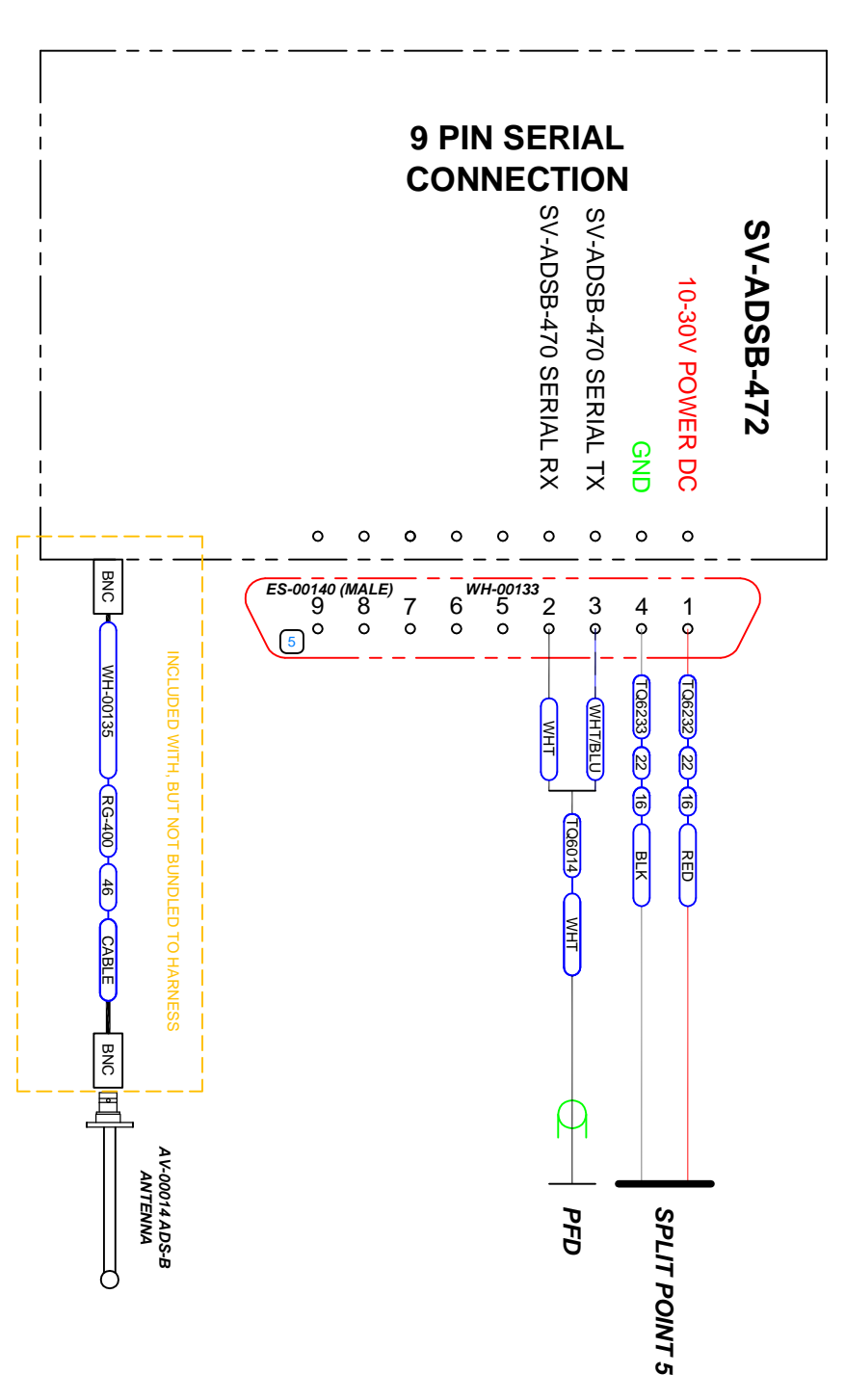
SPLIT POINT 5



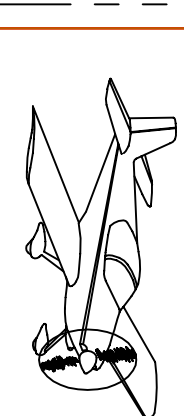
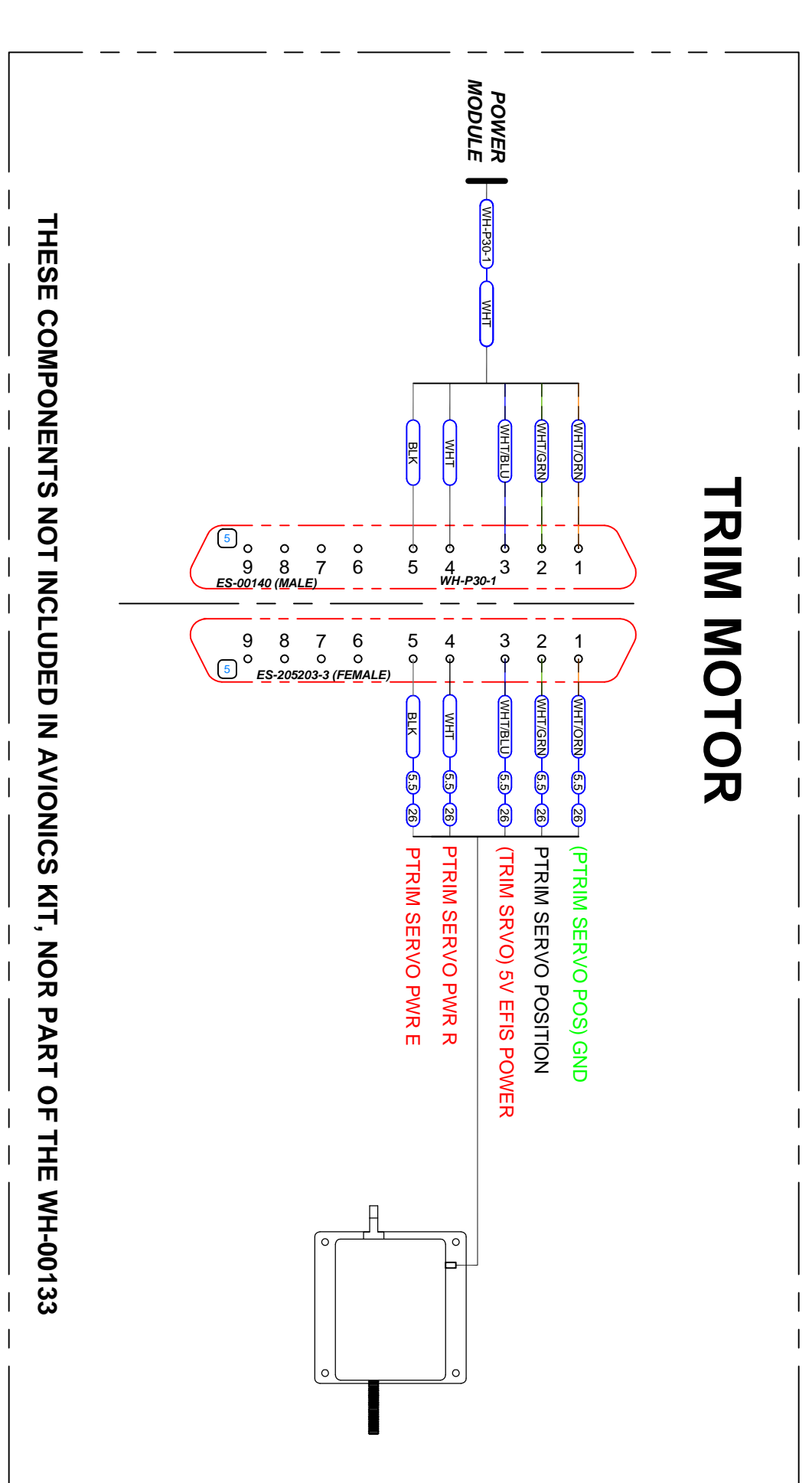
ELT



ADS-B IN



TRIM MOTOR

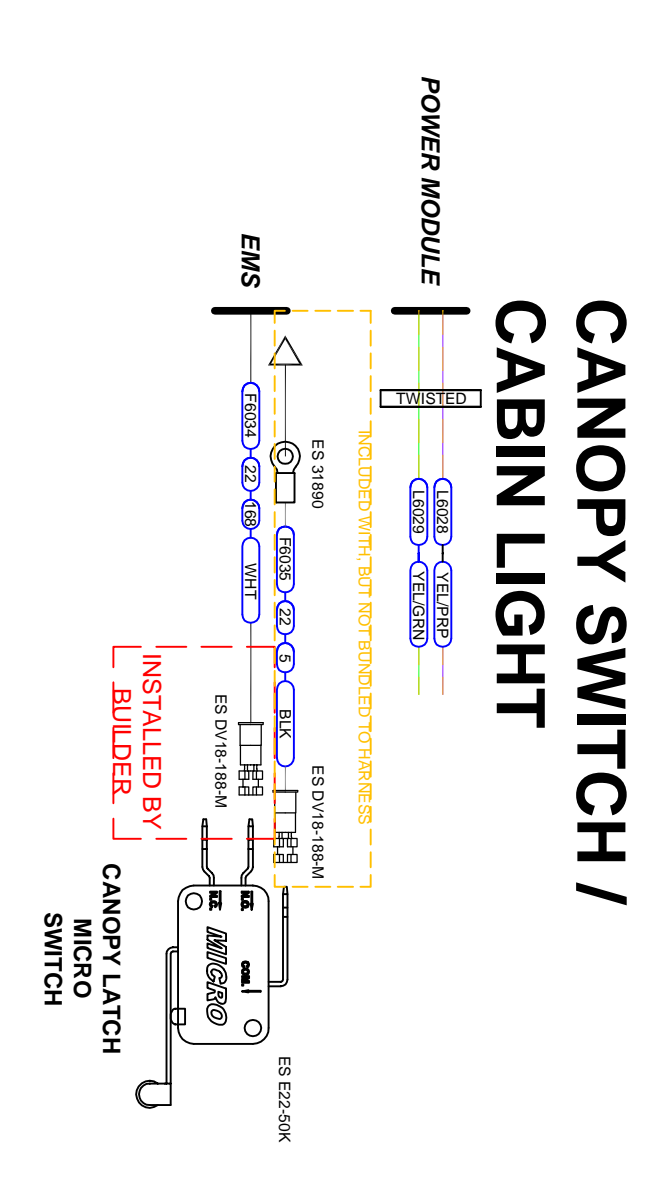
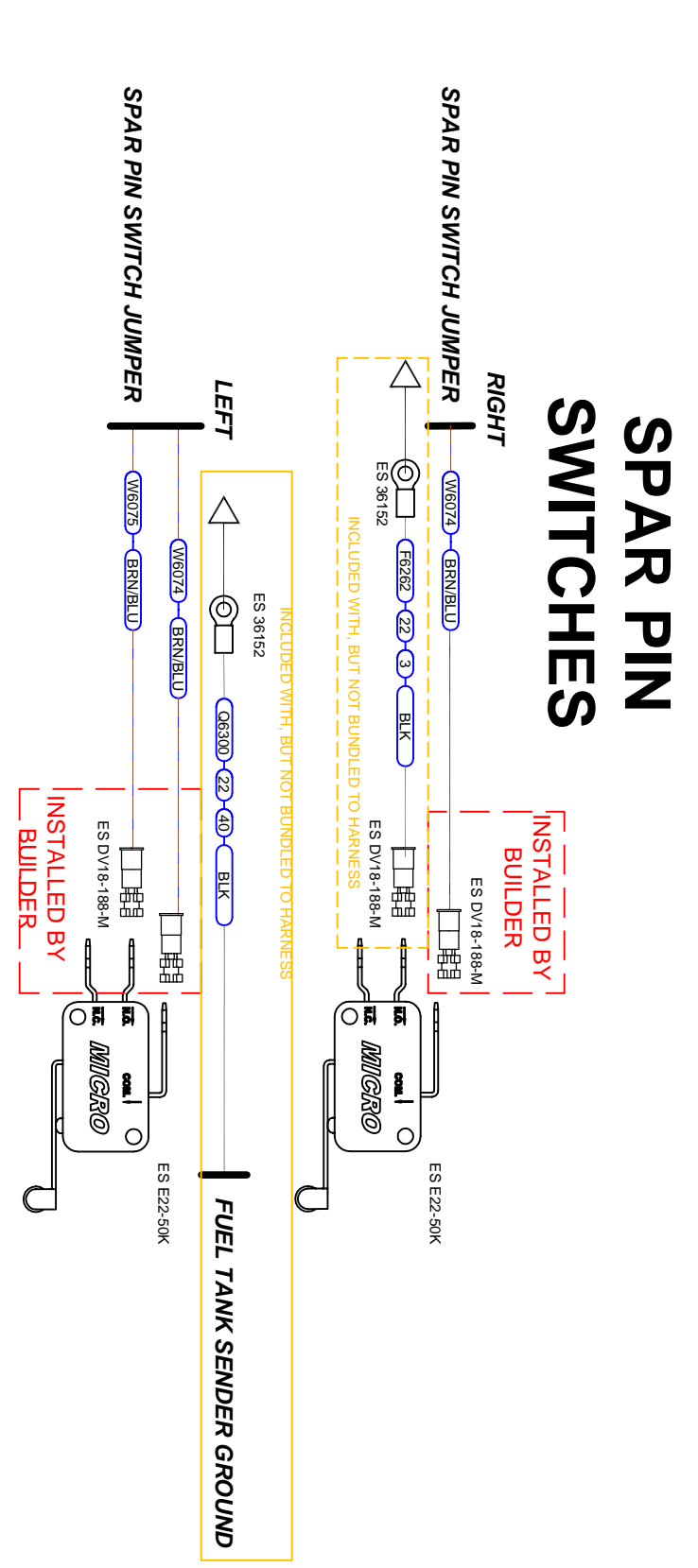
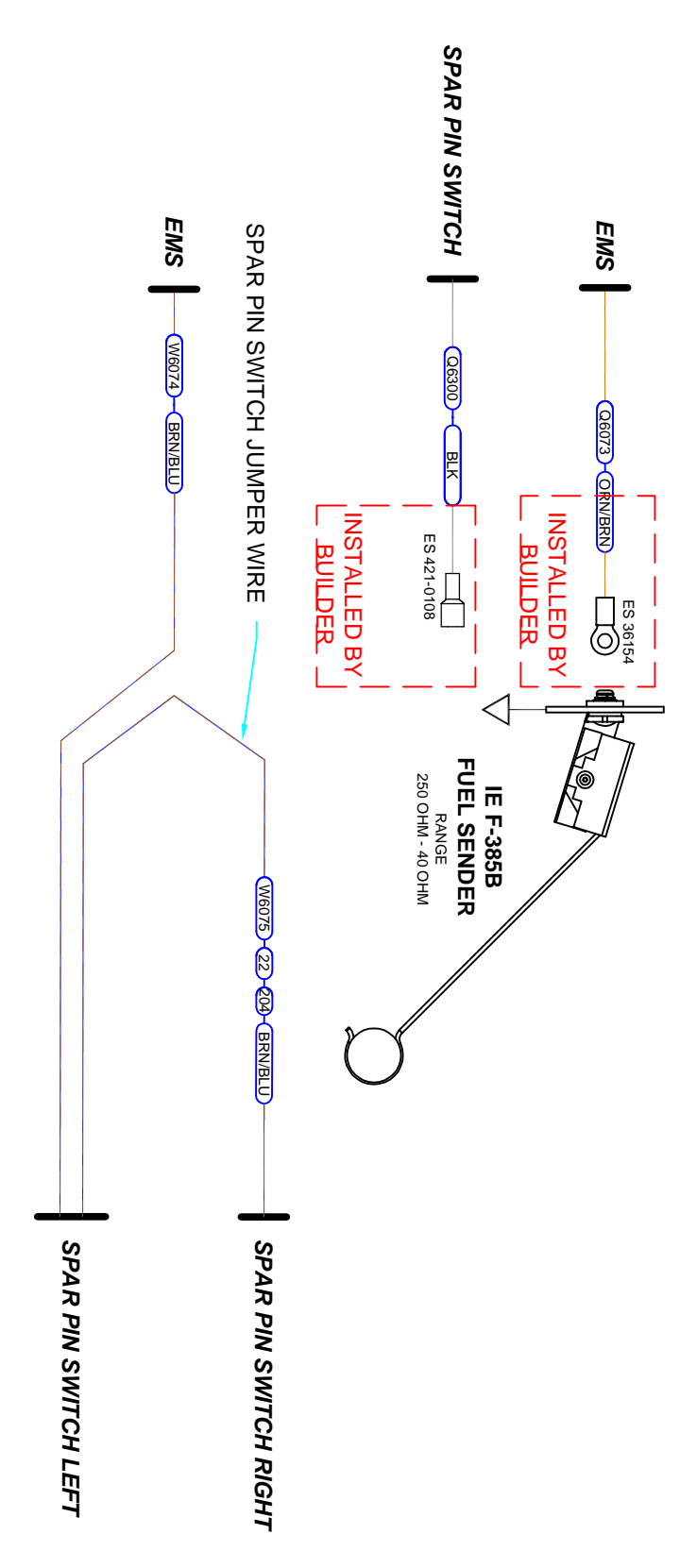
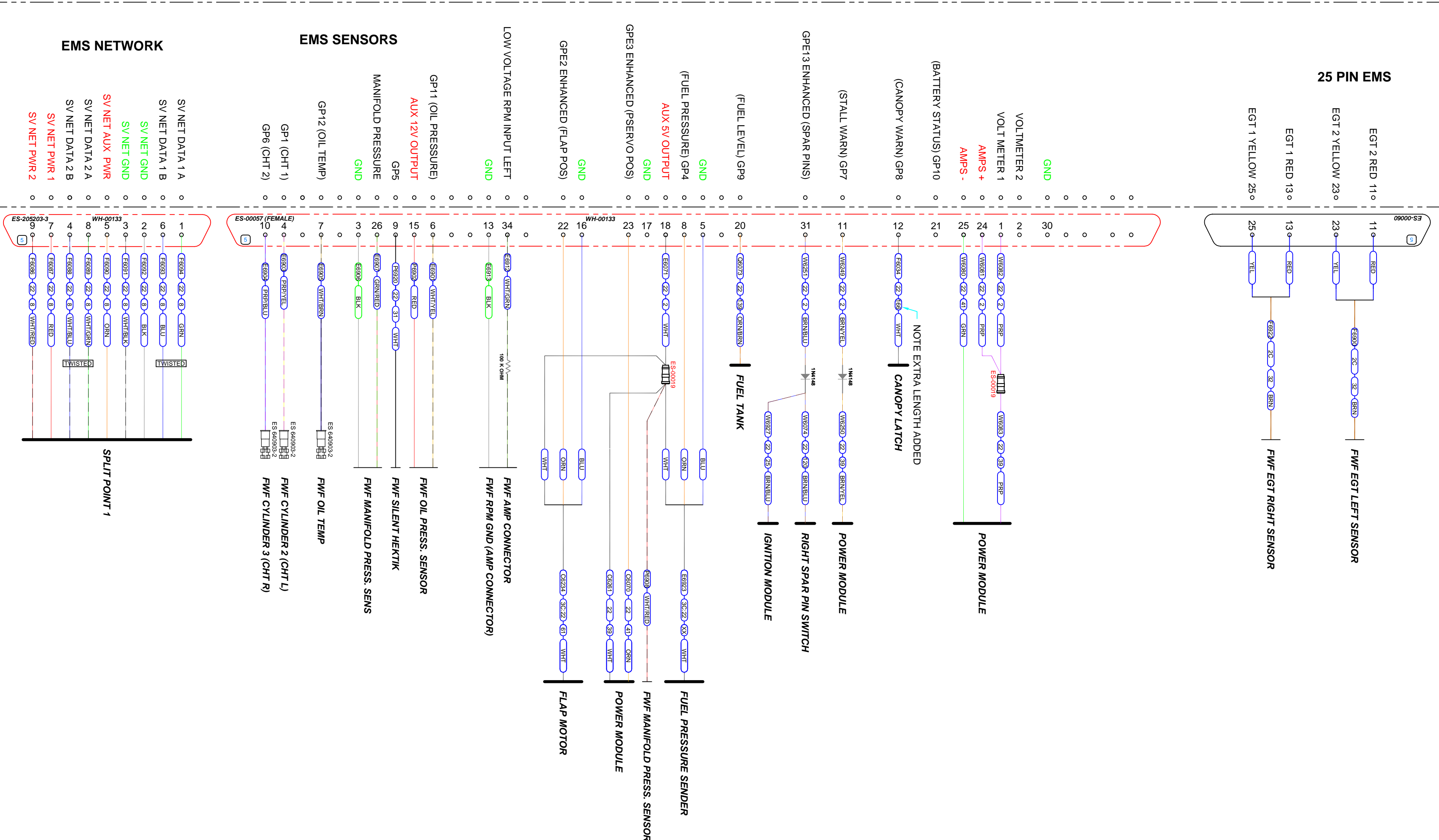


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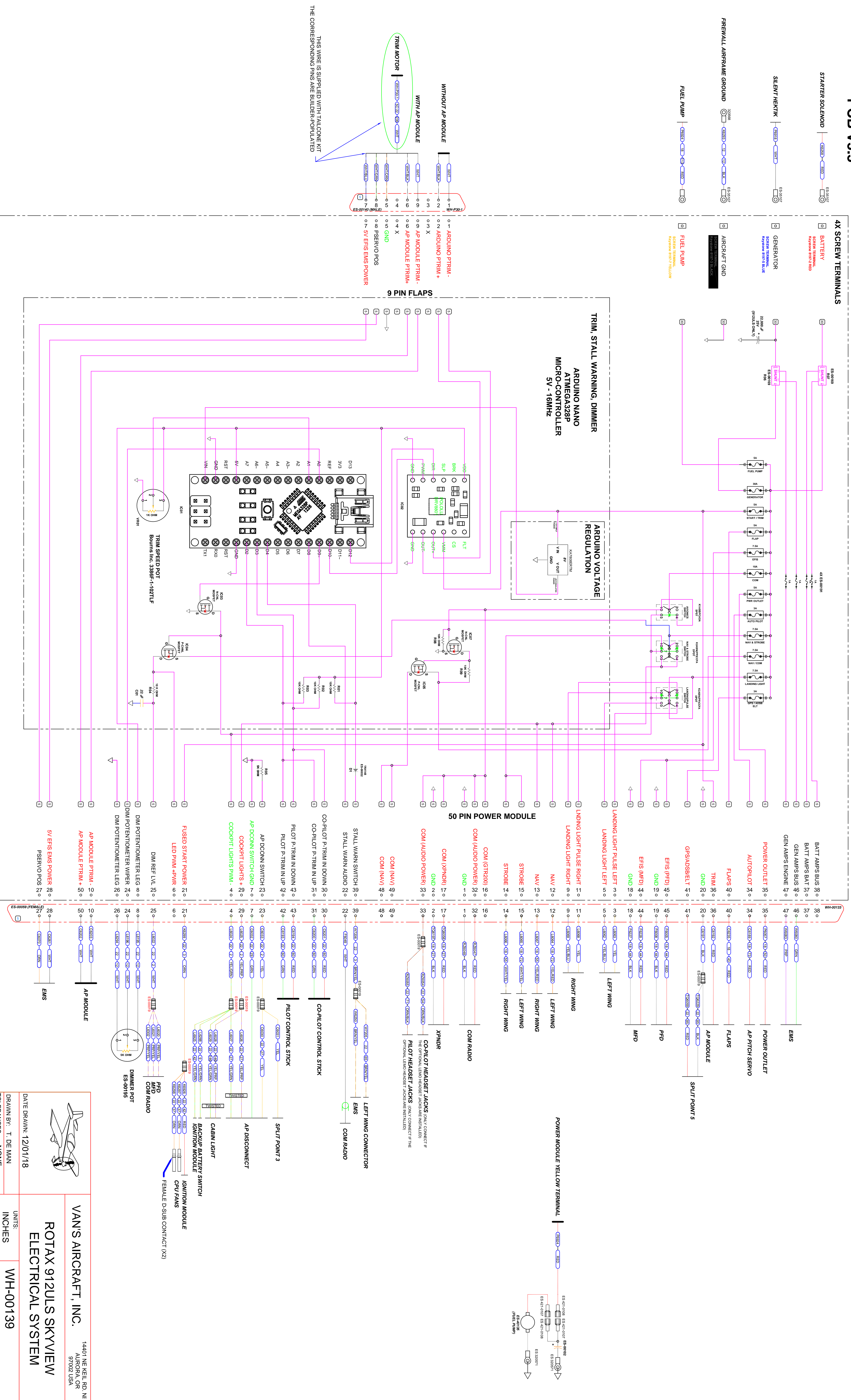
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EMS
 SV-EMS-220
 ENGINE
 MONITORING
 MODULE



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ROTAX 912ULS SKYVIEW ELECTRICAL SYSTEM		UNITS: INCHES	PAGE: 7 OF 9
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AV-60000 POWER MODULE iS-JLS PCB V3.3



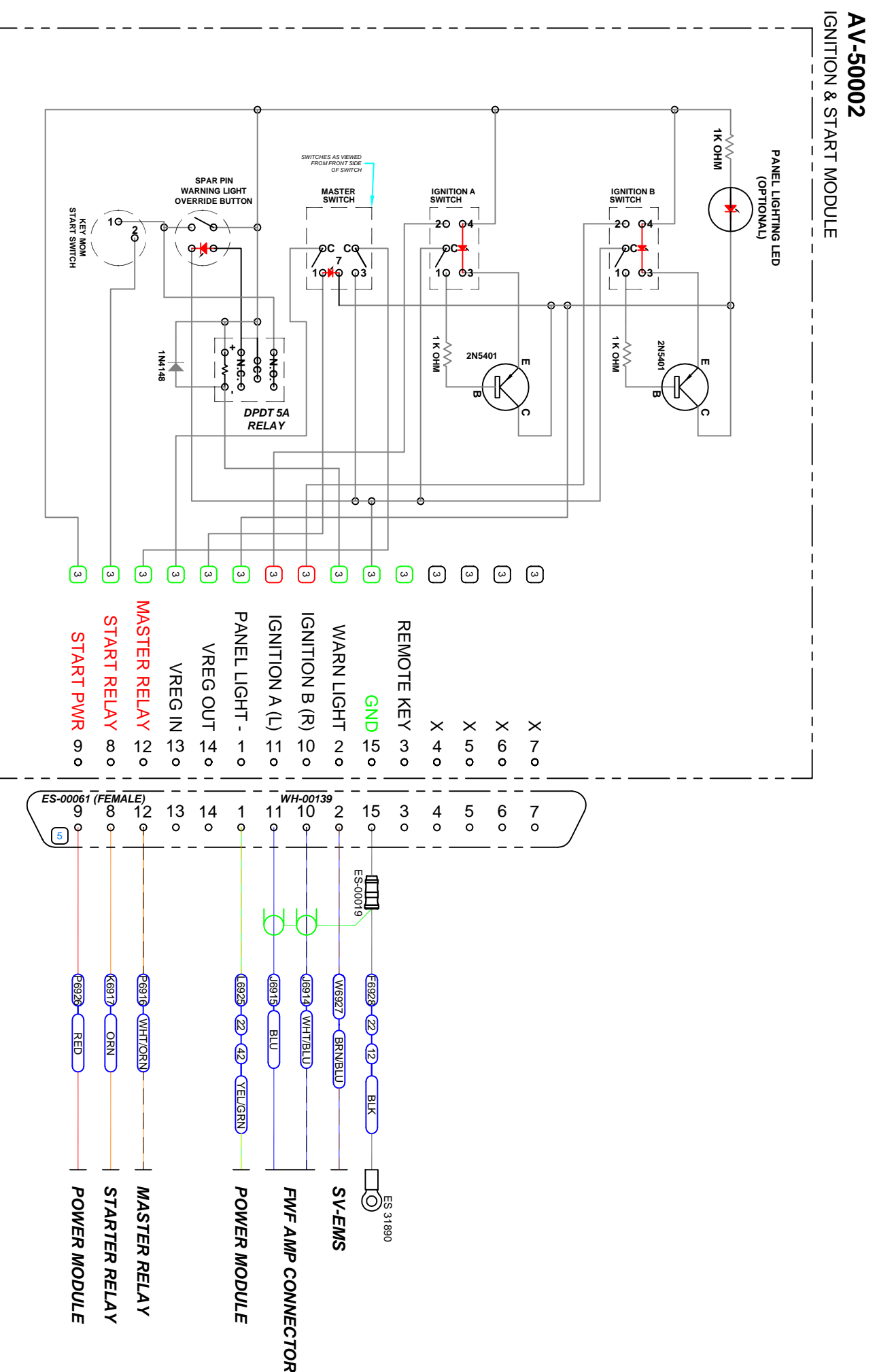
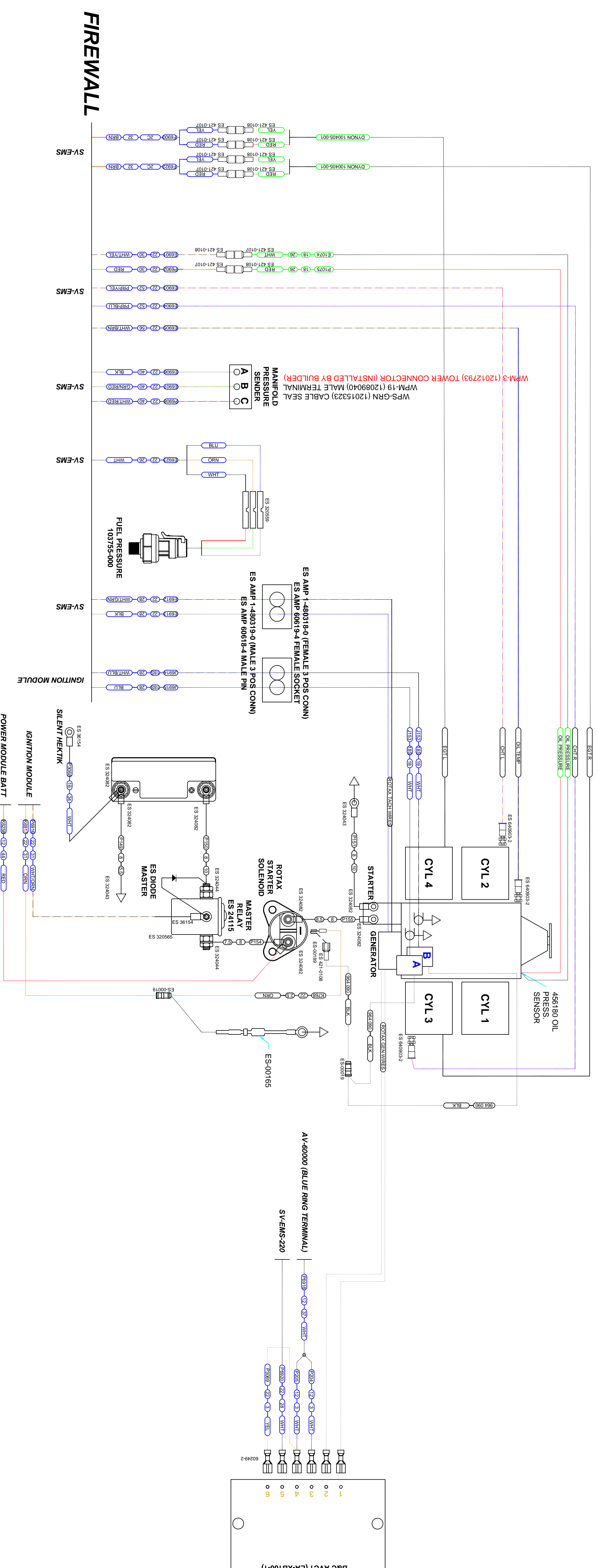
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WH-00139

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ROTAX 912JLS SKYVIEW
 ELECTRICAL SYSTEM



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