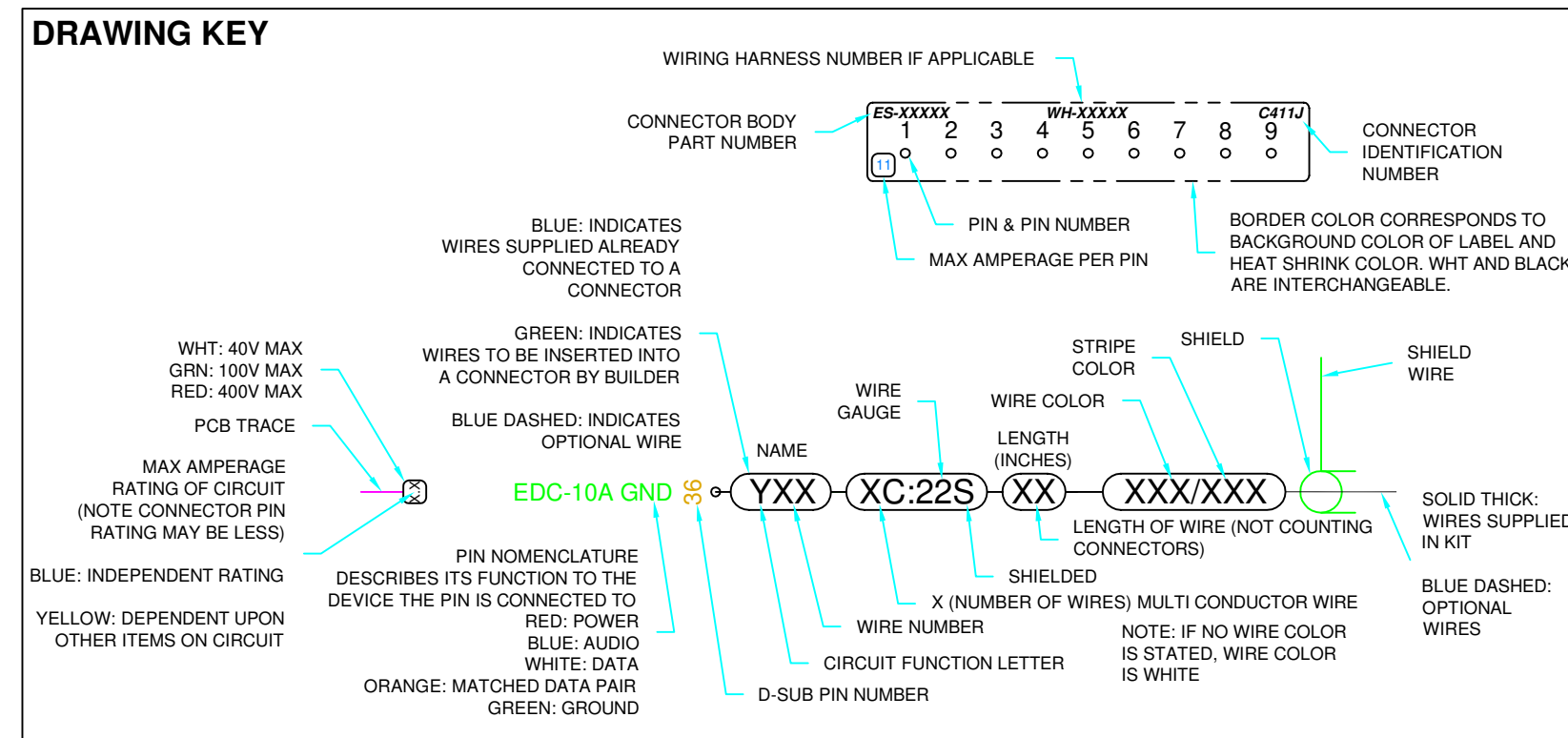


LETTER	CIRCUITS
C	CONTROL SURFACE INSTRUMENT
D	ENGINE INSTRUMENT
E	FLIGHT INSTRUMENTS
F	HEATING VENTILATING
H	IGNITION
J	ENGINE CONTROL
K	LIGHTING
L	POWER CONTROL
P	FUEL RADIO
Q	RADIO
R	HEADPHONE
RZ	SPECIAL ELECTRONIC
T	RADIO CONTROL
TC	AIRBORNE ANNOUNCING
TD	BEACON
TP	TRANSMITTER RECEIVER
TQ	WARNING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



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-WRAPPS 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

GTR 200B INTERNAL PRESETS

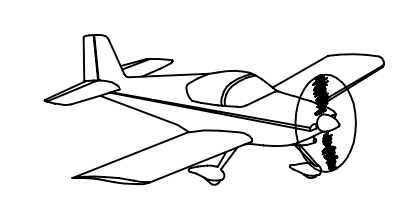
- "MENU" BUTTON OPTIONS
- MUSIC VOL 75%
 - ICS VOL 80%
 - ICS SOLCH AUTO
 - COM MUTE ON
 - COM MUTE ICS OFF
 - ICS MUTE MUSIC OFF
 - MUTE LEVEL FULL
 - COM 3D ON
 - ICS 3D ON
 - COCKPIT NOISE NORMAL
 - MUSIC BASE BOOST OFF
 - MUSIC EQ OFF
 - KEY BEEP VOL 50%
 - CONTRAST +0
- INTERNAL MENU SETTINGS
- SIDETONE 05
 - MIC GAIN 05
 - RF SOLCH 00
 - MON SWAP ON
 - INTERCOM ENABLE YES
 - RECIEVE 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

TRIG TY96 INTERNAL PRESETS

- INTERCOM VOLUME:
- AUX IN VOLUME:
- MUSIC IN VOLUME:
- SIDETONE VOLUME:
- INTERCOM SOLCH:
- MIC 1 GAIN:
- MIC 2 GAIN:
- RADIO SOLCH:
- TY96 PRESET NOTES:
 -SET FREQUENCY STEP SIZE APPROPRIATE FOR REGION.
 - ALL SETTINGS NOT DEFINED BY THIS DRAWING ARE ACCEPTABLE AS CONFIGURED FROM MANUFACTURER.

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.



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ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM

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DRAWN BY: RIAN JOHNSON

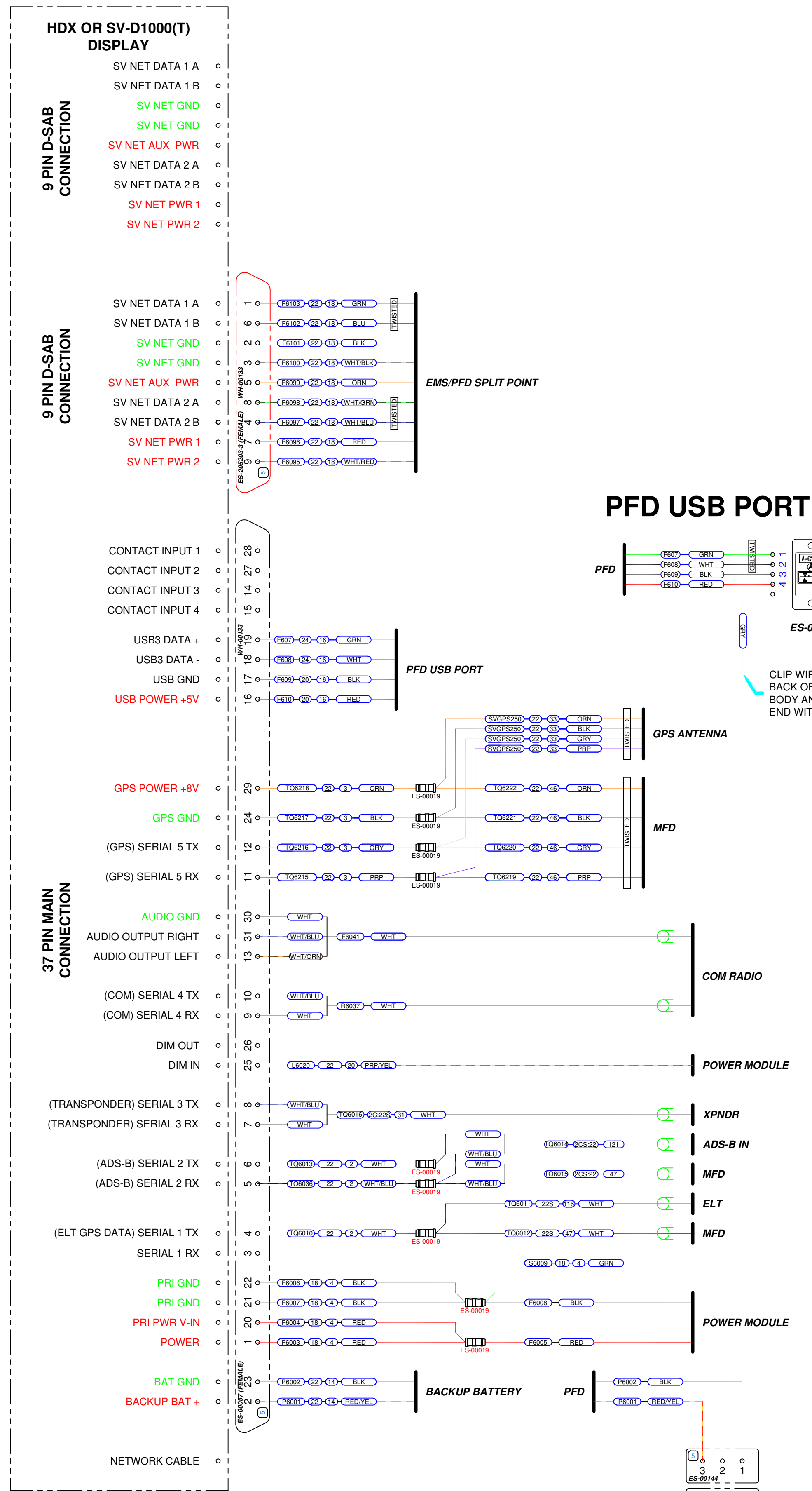
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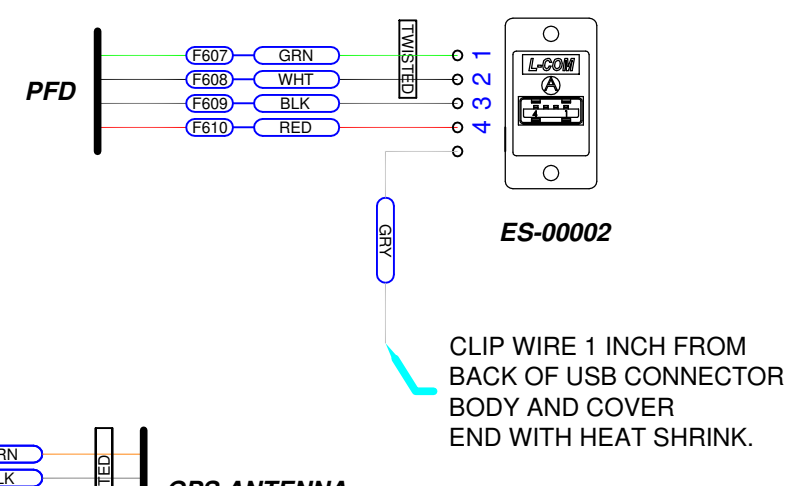
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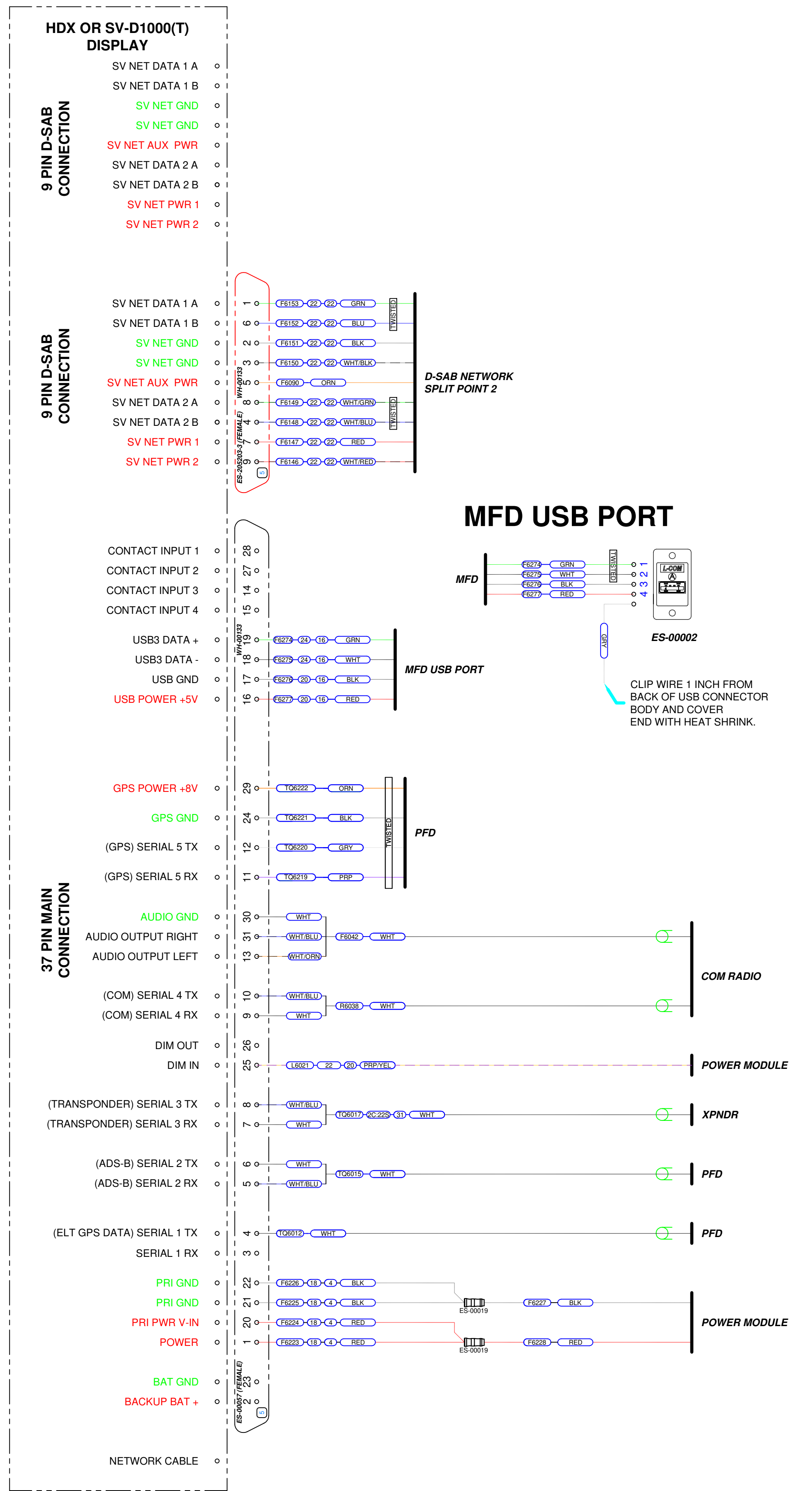
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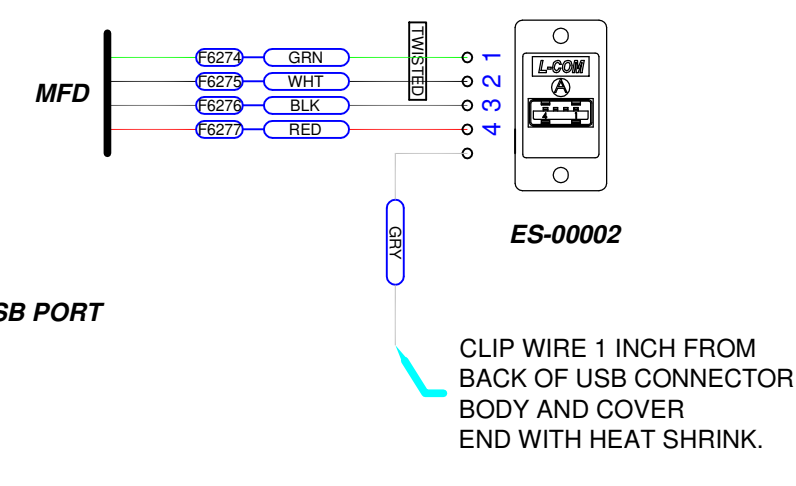
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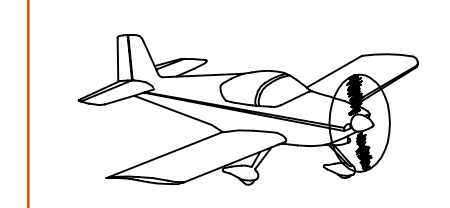
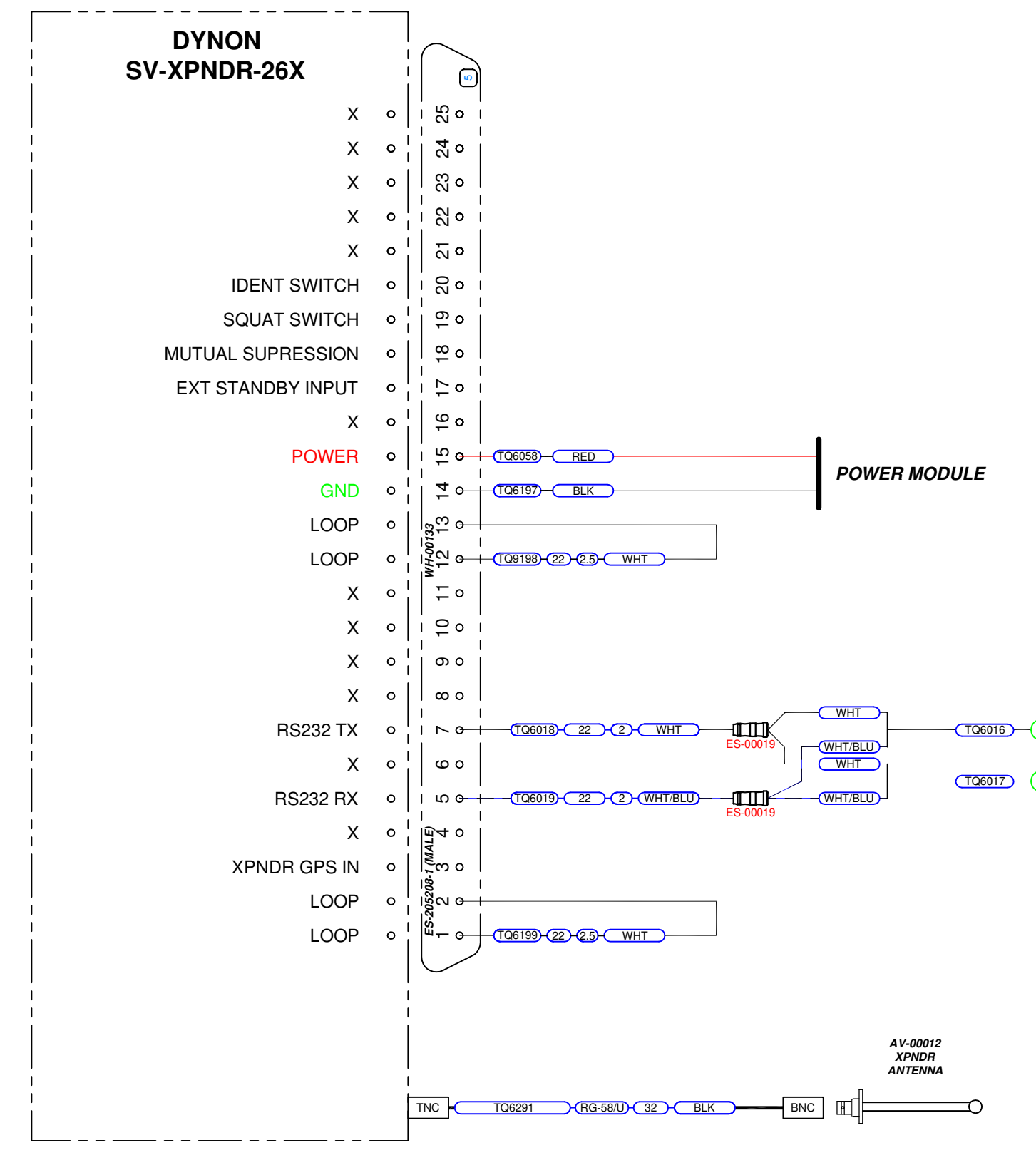
MFD



MFD USB PORT



XPNDR



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ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM

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DRAWN BY: RIAN JOHNSON

TOLERANCES: NONE (UNLESS OTHERWISE SPECIFIED)

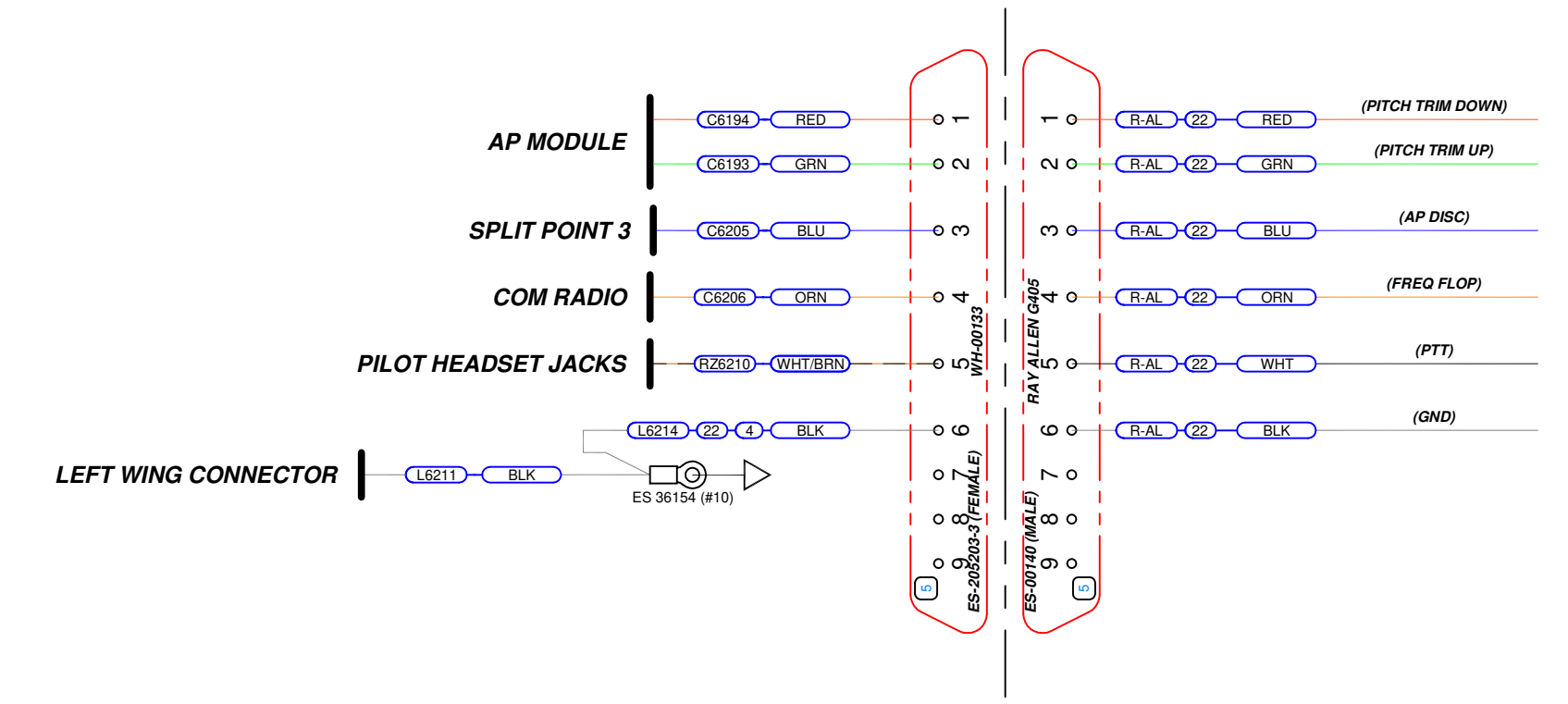
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WH-00133
PAGE: 2 OF 11

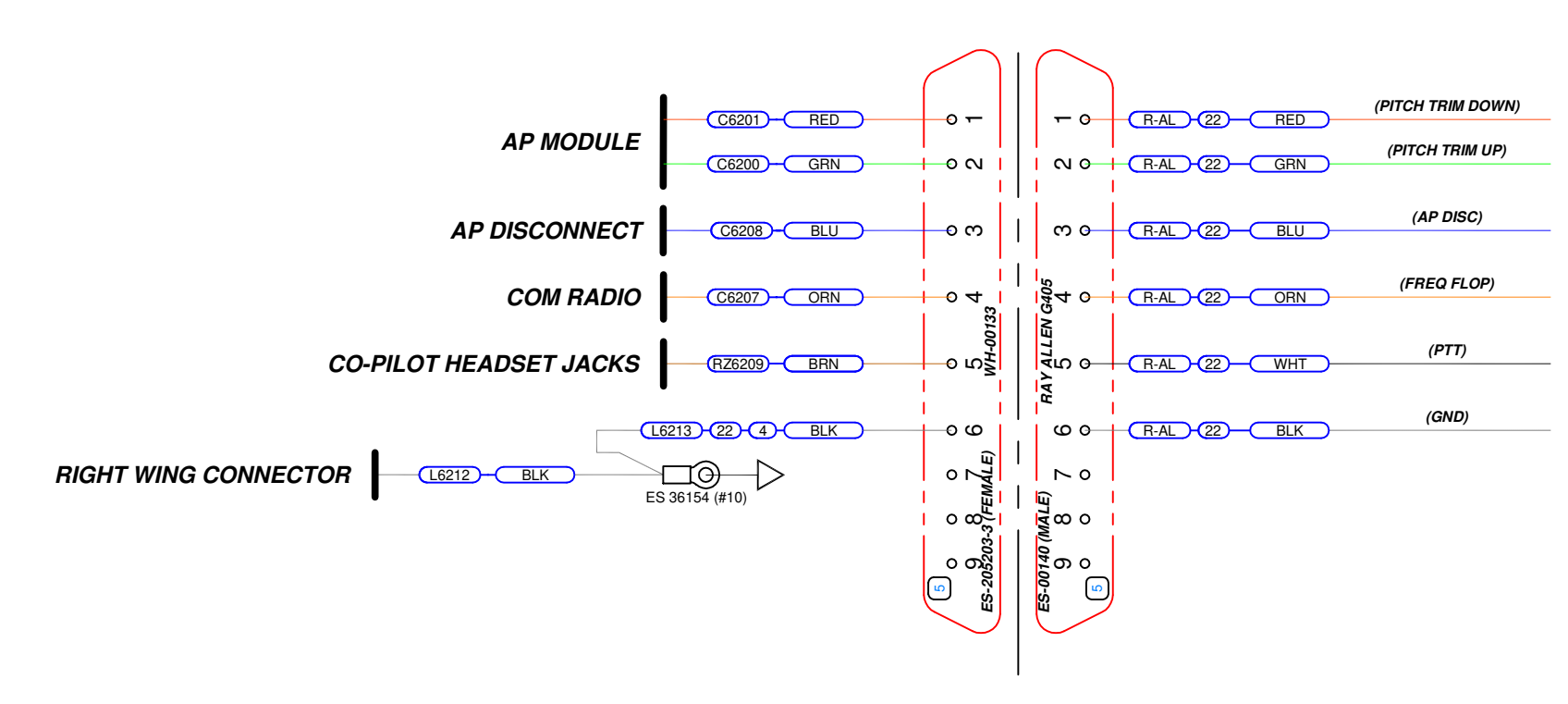
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REV	DESCRIPTION	DATE	APPROVAL
R5	SEE PAGE 1		

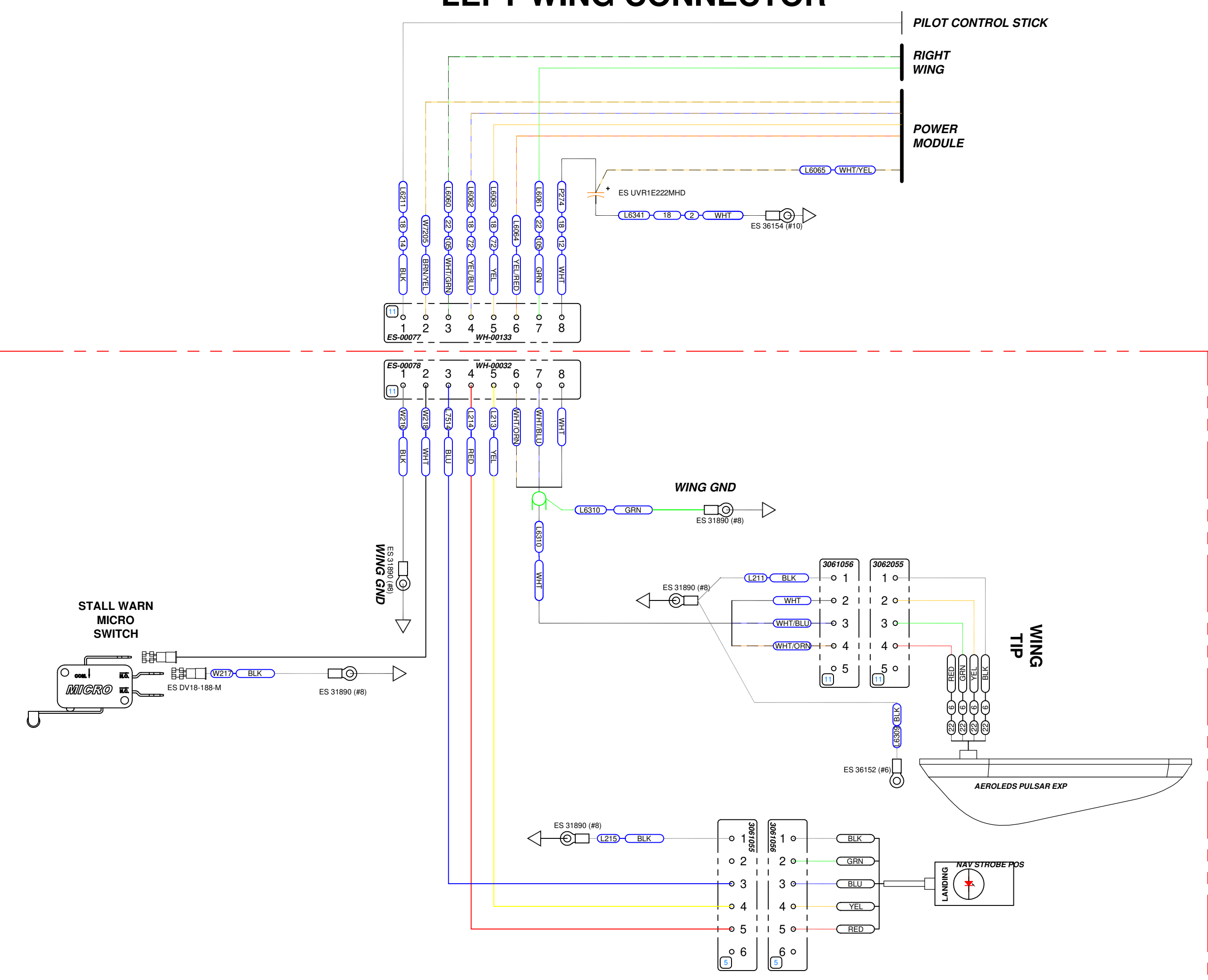
PILOT STICK GRIP



CO-PILOT STICK GRIP

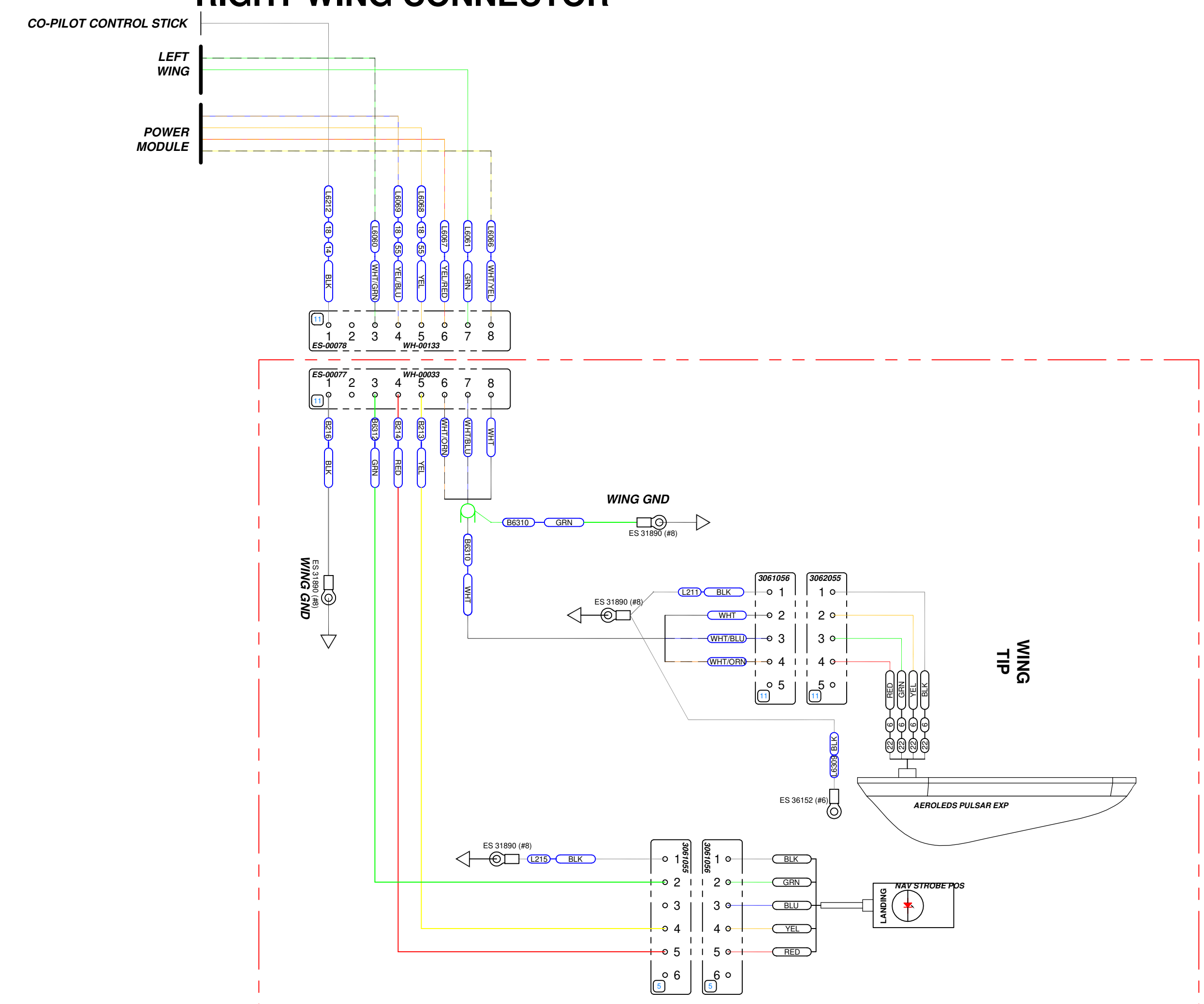


LEFT WING CONNECTOR

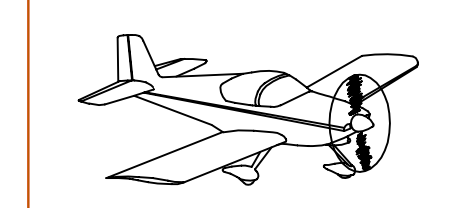


THESE COMPONENTS NOT INCLUDED IN AVIONICS KIT, NOR PART OF THE WH-00134.
 SEE WH-00032 AND WH-00033 RV-12IS WING HARNESS DRAWINGS

RIGHT WING CONNECTOR



THESE COMPONENTS NOT INCLUDED IN AVIONICS KIT, NOR PART OF THE WH-00134.
 SEE WH-00032 AND WH-00033 RV-12IS WING HARNESS DRAWINGS



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ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM

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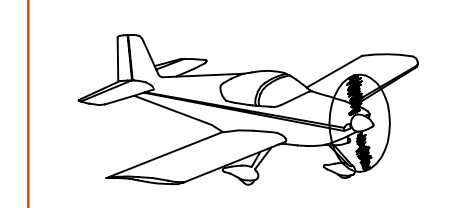
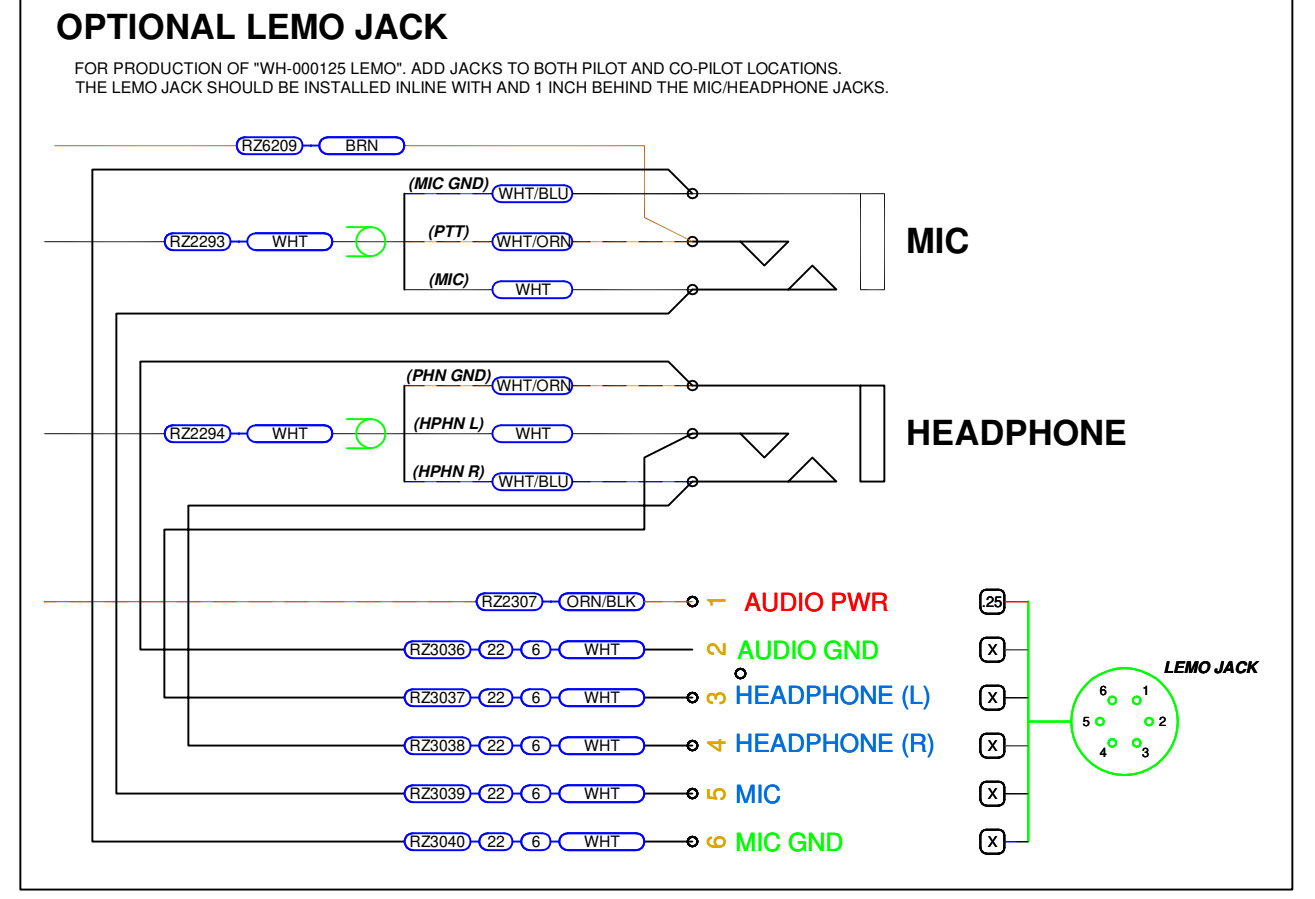
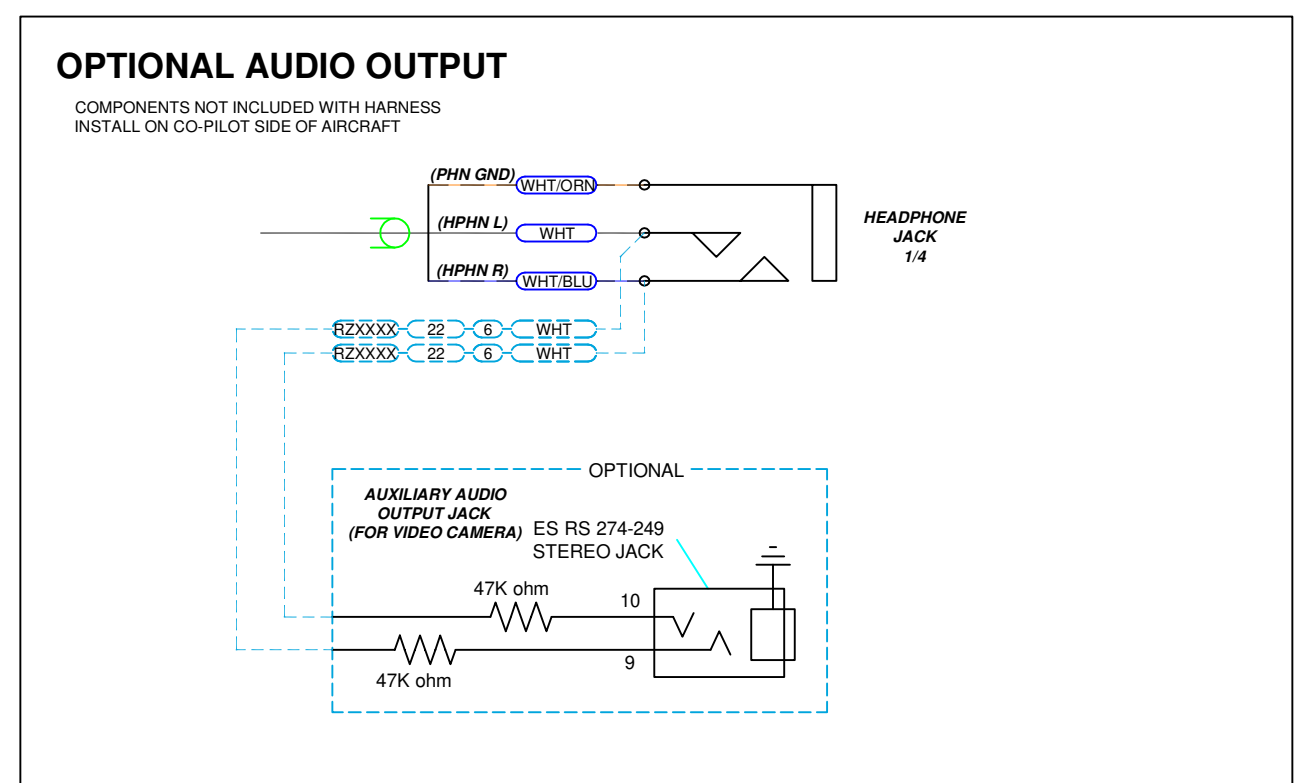
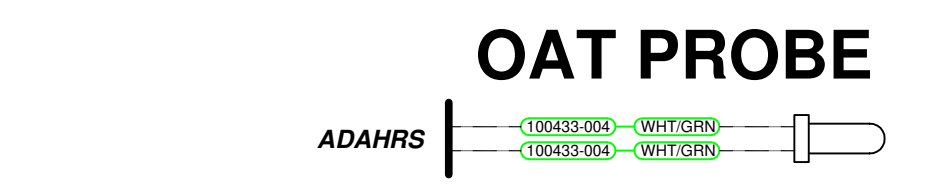
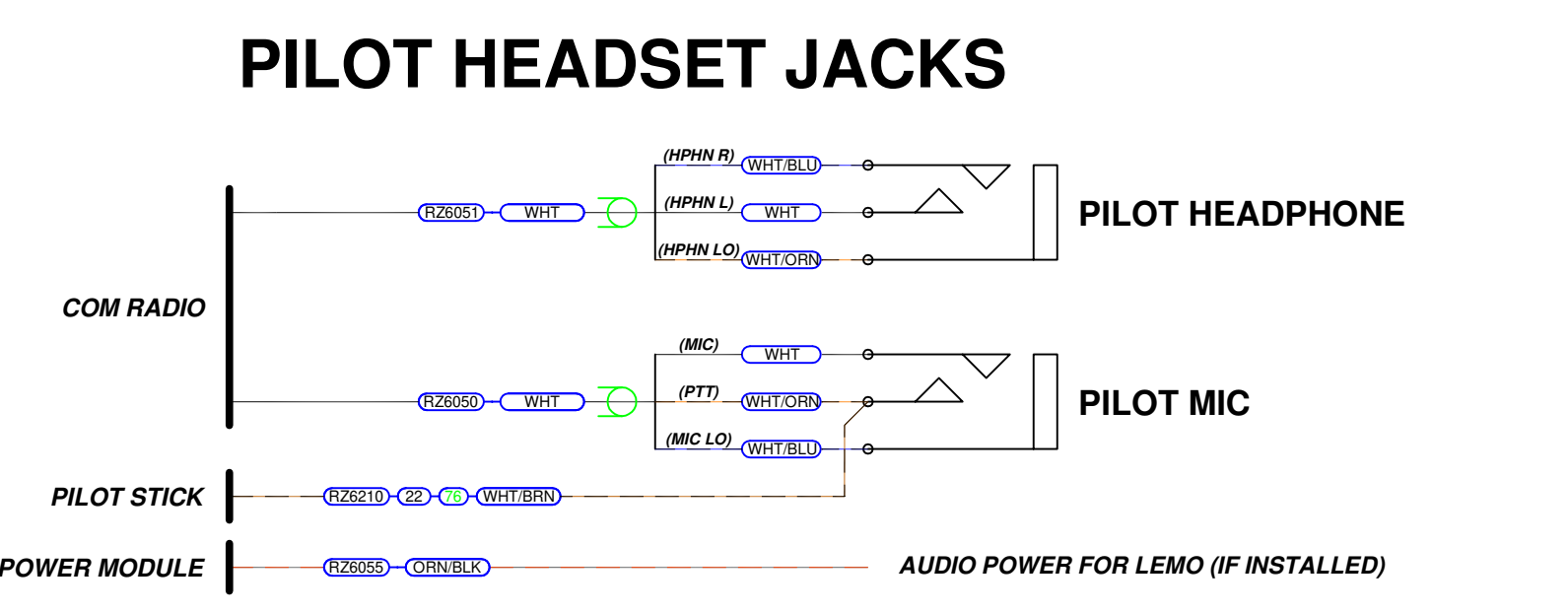
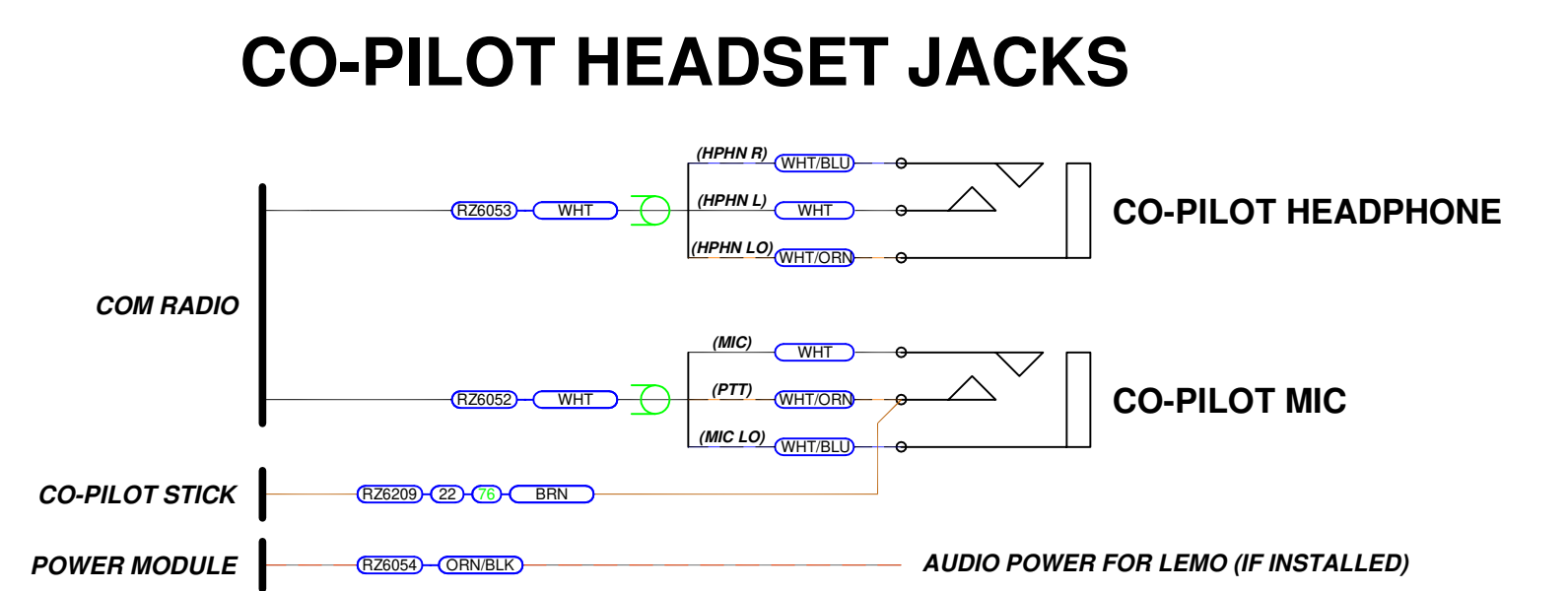
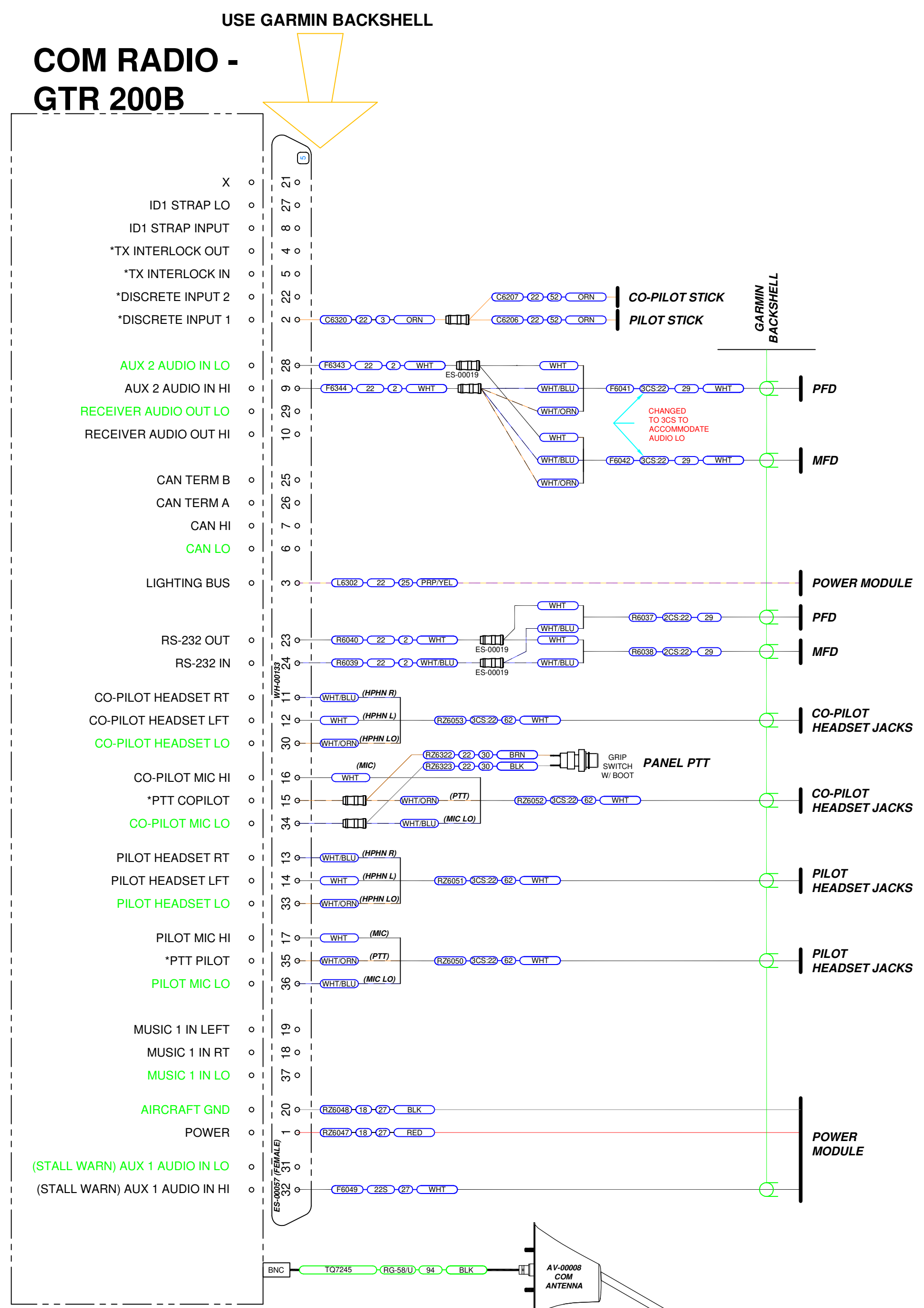
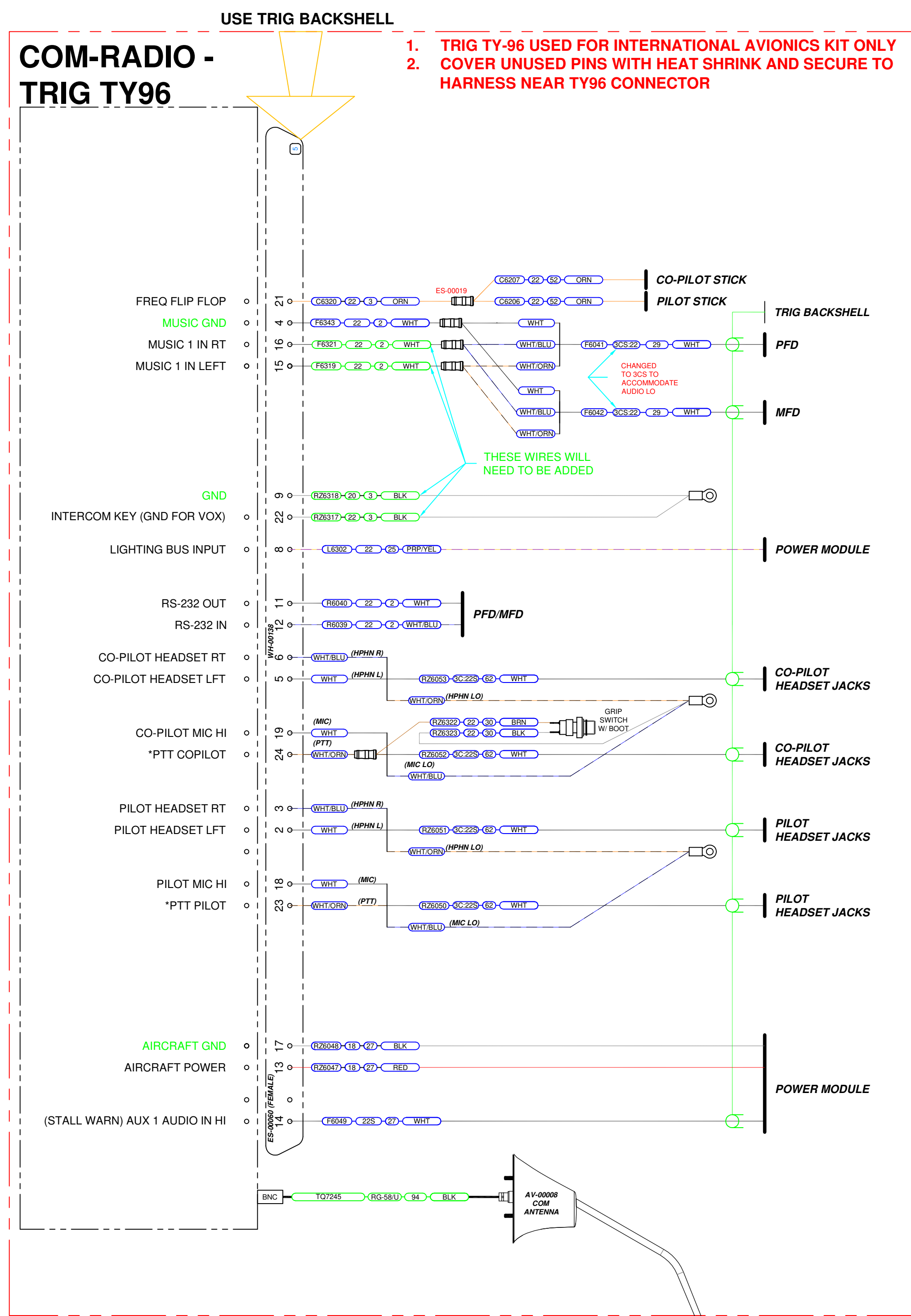
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UNITS: INCHES
 WH-00133

SCALE: NONE
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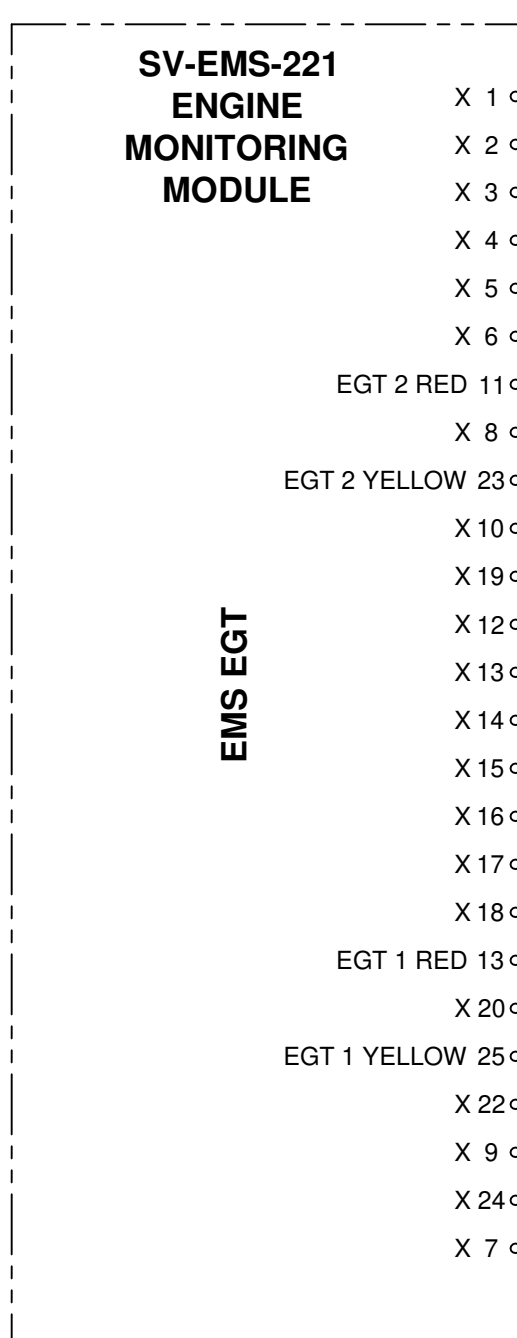
ROTAX 912iS SKYVIEW ELECTRICAL SYSTEM

DATE DRAWN: 06/11/18

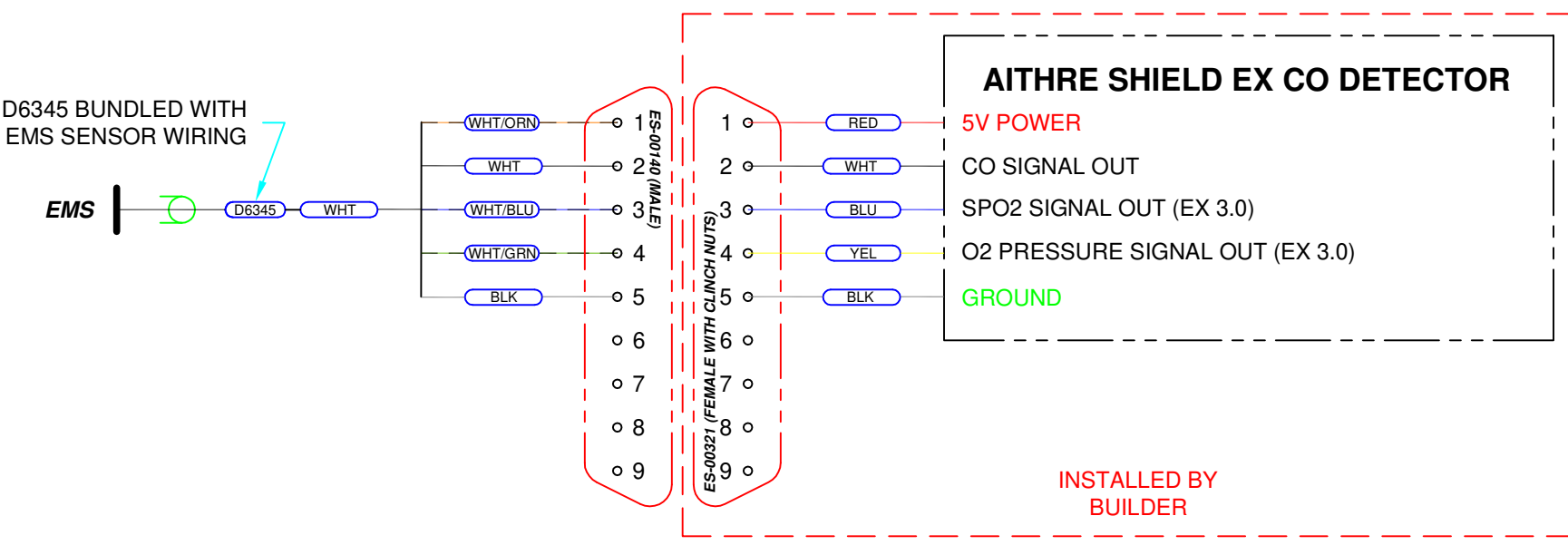
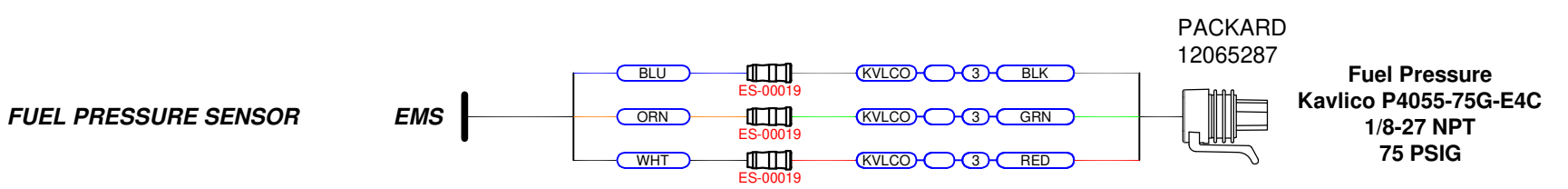
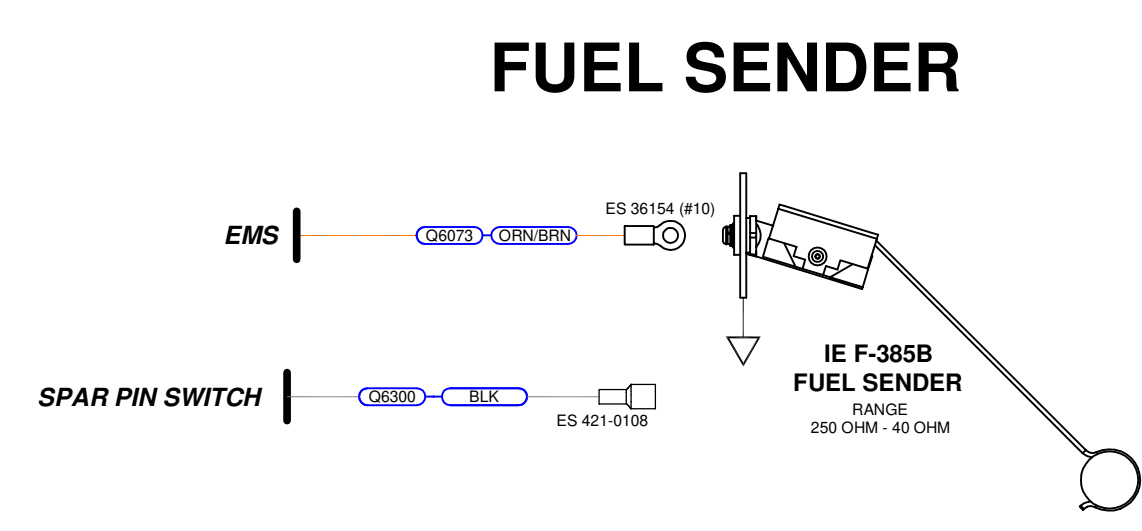
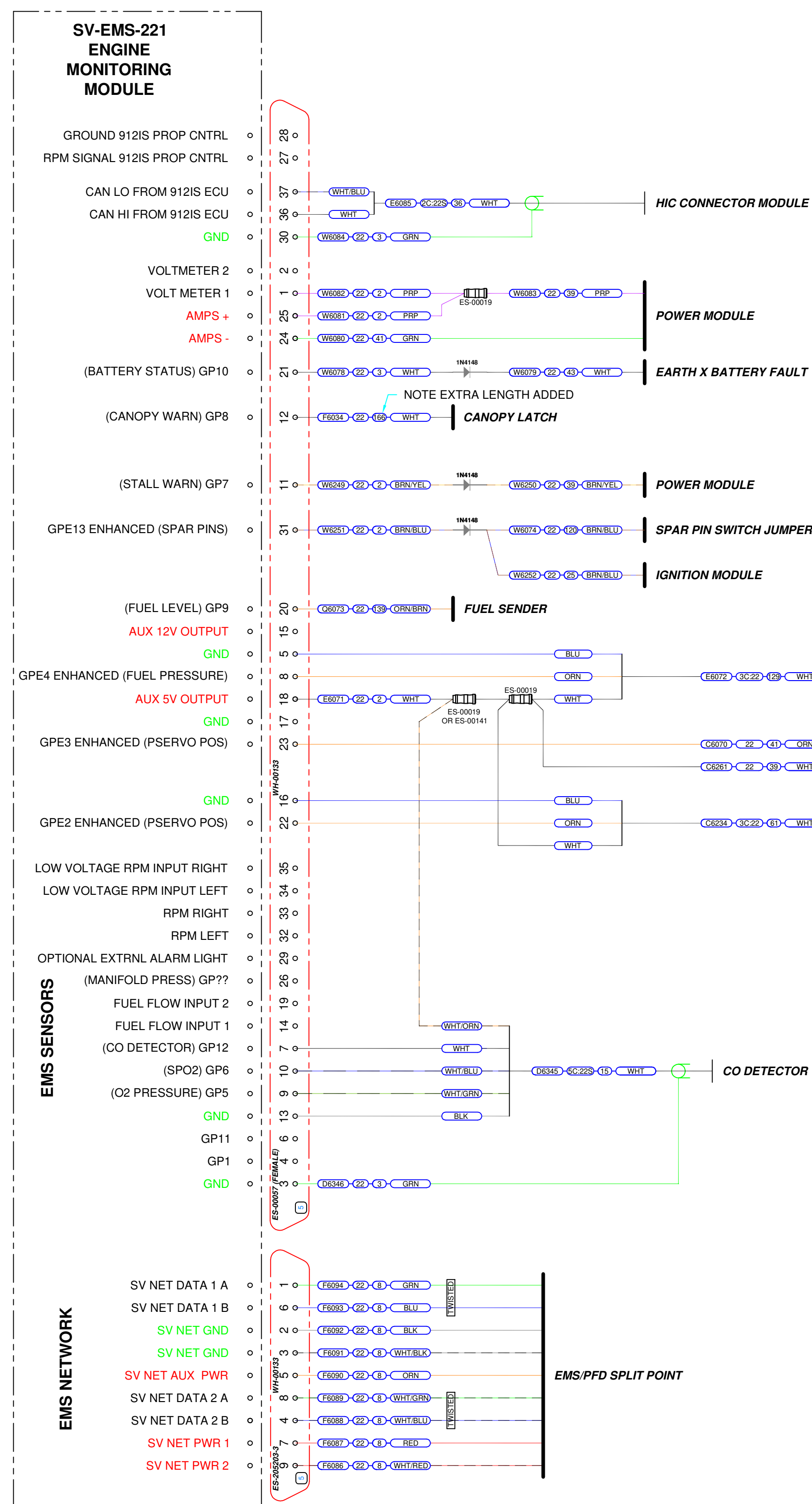
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PAGE: 4 OF 11

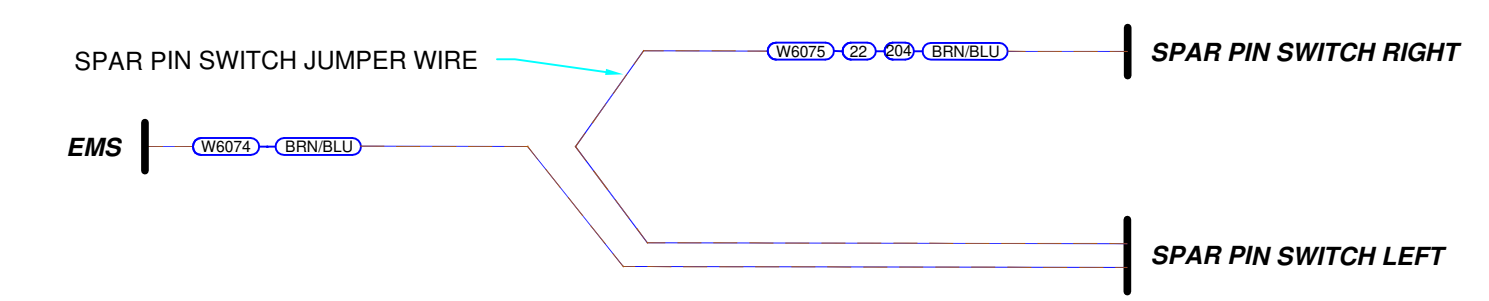
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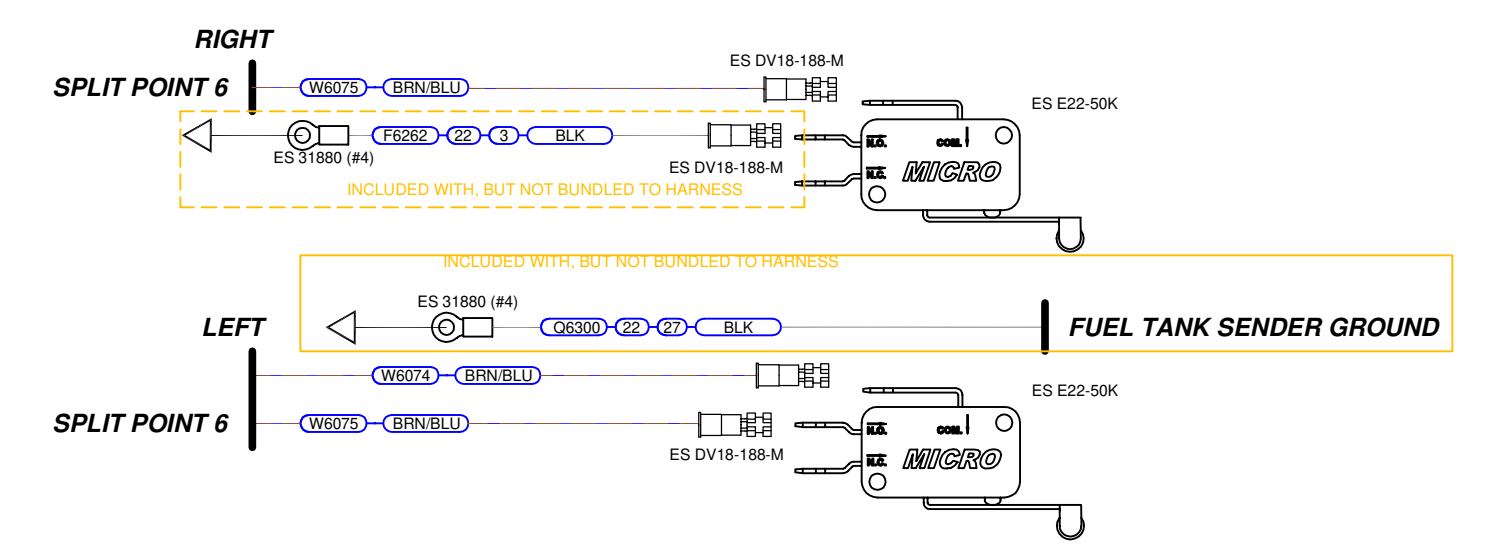
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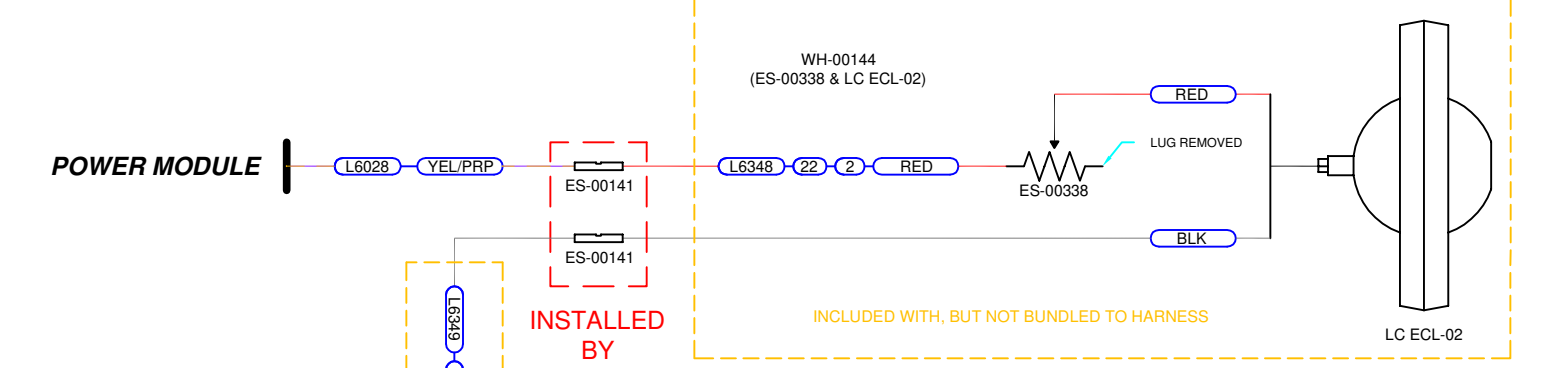
SPLIT POINT 6



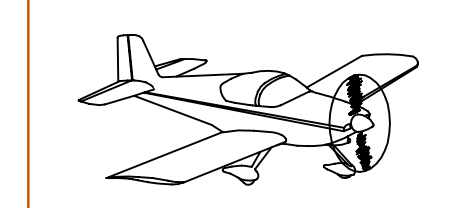
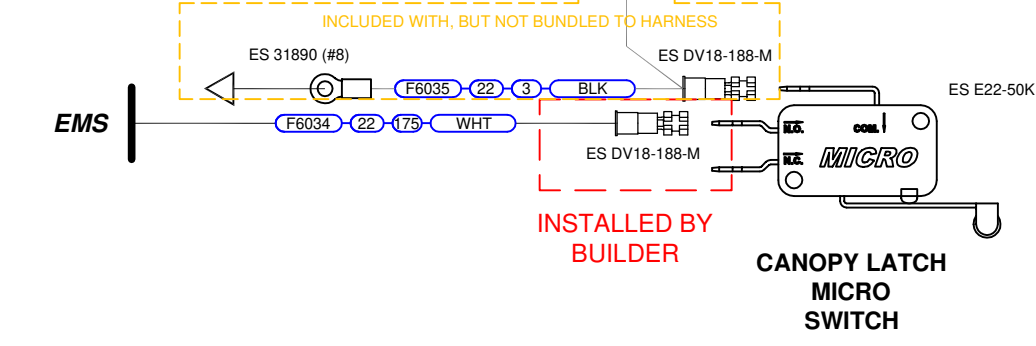
SPAR PIN SWITCHES



CABIN LIGHT & DIMMER



CANOPY SWITCH



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ROTAX 912IS SKYVIEW ELECTRICAL SYSTEM

DATE DRAWN: 06/11/18

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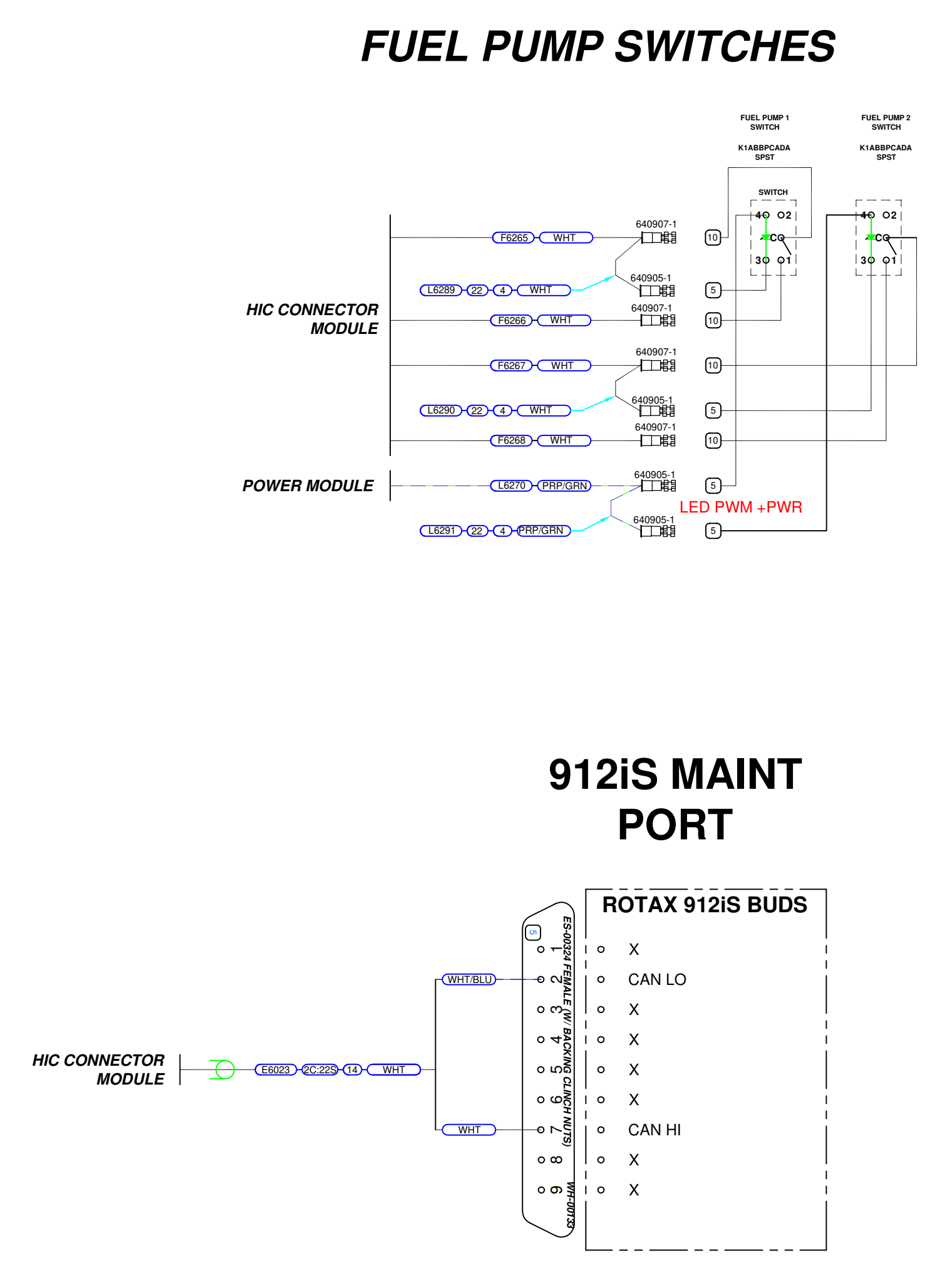
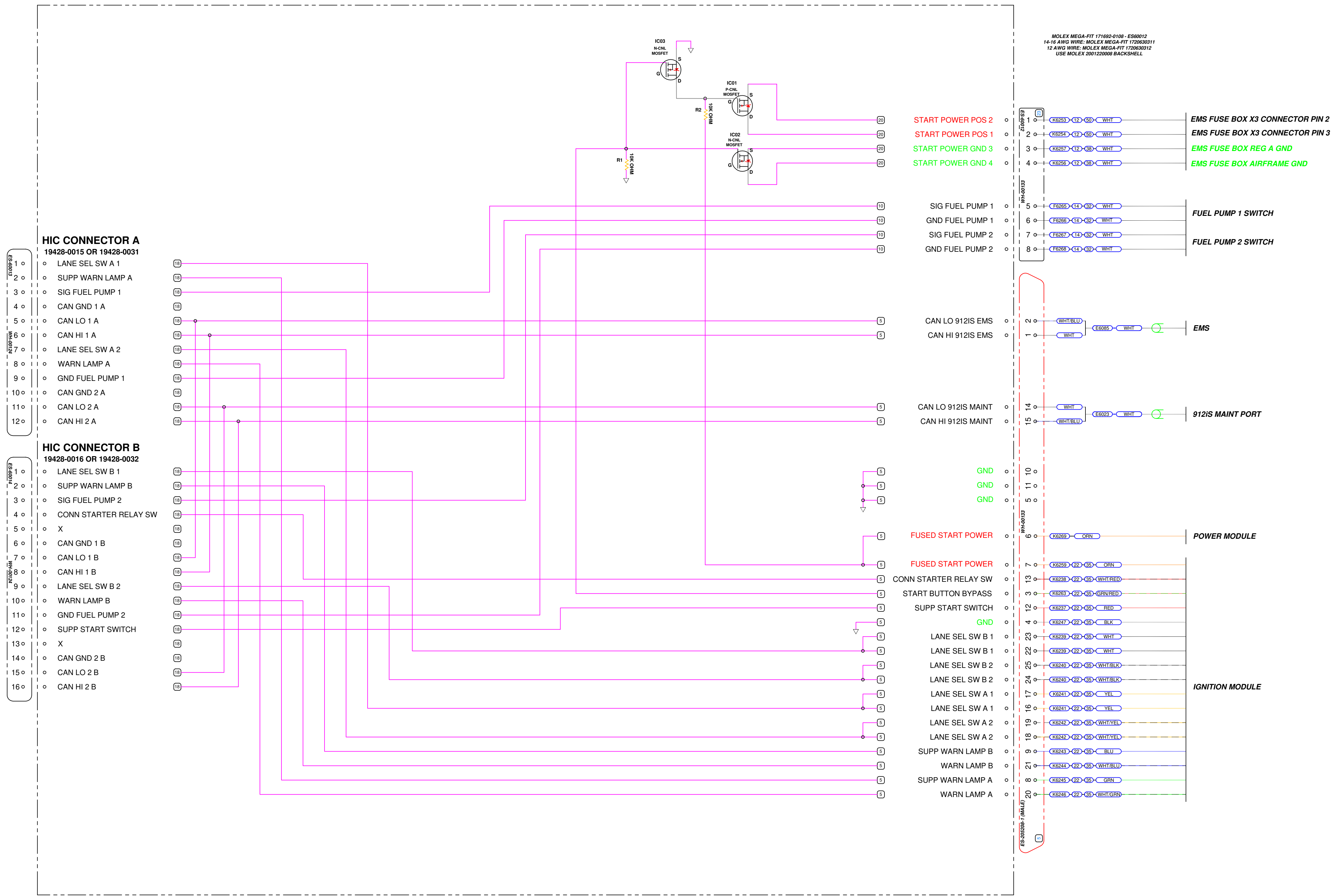
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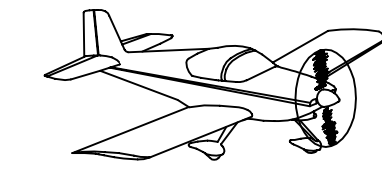
WH-00133
PAGE: 7 OF 11

HIC CONNECTOR MODULE iS PCB ES-60009 V3.1

REV	DESCRIPTION	DATE	APPROVAL
R5	SEE PAGE 1		



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

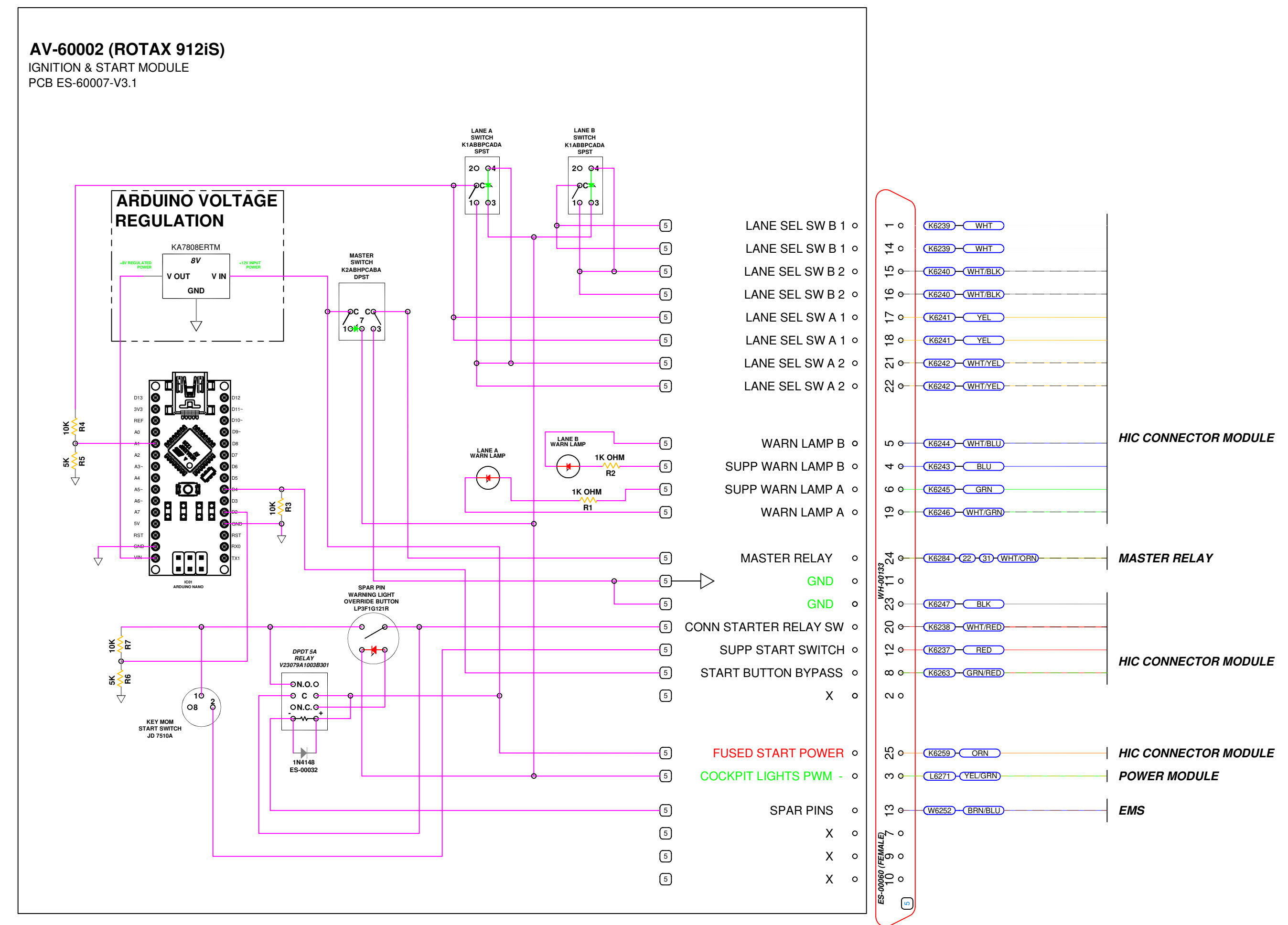


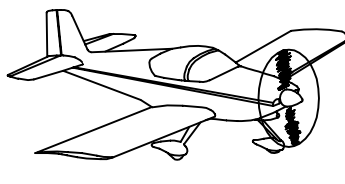
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**ROTAX 912iS SKYVIEW
ELECTRICAL SYSTEM**

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DRAWN BY: TONY KIRK		SCALE: NONE	
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	VAN'S AIRCRAFT, INC. 14401 NE KEIL RD. NE 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
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