

REV	DESCRIPTION	DATE
A	INITIAL RELEASE	26-11-2025

_____ NEW WIRE / UNIT
 - - - - - EXISTING WIRE / UNIT

NOTES:

- PERFORM ALL WORK IN ACCORDANCE WITH BELL HELICOPTERS STANDARD PRACTICES MANUAL BHT-ELEC-SPM.
- ALL NEW UNSHIELDED WIRE USE M22759/41-(XX)-9 OR EQUIVALENT TYPE WIRE. (M22759/41-(XX)-9 IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS, SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER. USE CRIMP SPLICES FOR REPAIR). ALL WIRES 22 AWG UNLESS OTHERWISE SPECIFIED BY WIRE CODE. ALL JUMPERS TO BE LESS THAN 6 INCHES.
- ALL NEW SHIELDED WIRE USE M27500-(XX)SM(X)N23 OR EQUIVALENT TYPE WIRE. (M27500-(XX)SM(X)N23 IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS, SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER. USE CRIMP SPLICES FOR REPAIR). SOLDER SLEEVES SHALL USE SN96 SOLDER, USE P/N S200-X-00 OR EQUIVALENT.
- ALL AIRFRAME GROUNDS SHALL BE VIA LUG OR GROUNDING BLOCK AND PROVIDE SEPARATE GROUND STUD LOCATIONS FOR DC POWER GROUNDS, AC POWER GROUNDS, CHASSIS GROUNDS, SIGNAL GROUNDS AND SHIELD GROUNDS.
- ALL EQUIPMENT BONDING TO ADJACENT AIRFRAME STRUCTURE TO BE 0.0025 OHM OR LESS. ALL ELECTRICAL GROUNDING AND BONDING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM CHAPTER 8.
- ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM PARAGRAPH 4-9.
- ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM CHAPTER 5. ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/SOCKETS OR PLASTIC GROMMET SEALING PLUGS. ENSURE ALL BULKHEAD MOUNTED CONNECTORS ARE PROPERLY BONDED TO AIRFRAME.
- ENSURE ALL SWITCHES, CIRCUIT BREAKERS, AND REMOTE MOUNTED BOXES ARE LABELED WITH A CONSISTENT SIZE, FONT, COLOR, BACKGROUND AND ARE ILLUMINATED CONSISTENT AS EXISTING LABELS.
- ROUTE ALL WIRES AND CABLES WITH EXISTING WIRE ROUTES WHERE POSSIBLE AND CLAMP IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM CHAPTER 6. WIRES MUST BE ROUTED WITH A MINIMUM OF 6 INCHES OF SEPARATION FROM OXYGEN AND FLUID LINES (MIN 2 INCHES IF WIRES IN CONDUIT).
- INSTALL SYSTEM IN ACCORDANCE WITH THE LATEST REVISION OF THE MANUFACTURER INSTALLATION MANUAL.
- INCLUDED IN GARMIN GI 275 ADAHRS KIT P/N: 010-02326-31.
- INCLUDED IN GARMIN GI 275 ADAHRS CONNECTOR KIT P/N: 011-04809-01.
- INCLUDED IN GARMIN GI 275 BASE KIT P/N: 010-02325-00.
- INCLUDED IN GARMIN GI 275 BASE CONNECTOR KIT P/N: 011-04809-00.
- INCLUDED IN GARMIN GMU CONNECTOR KIT P/N: 011-04205-00.
- TIE AND STOW WITH GI 275 CABLE HARNESS AND ENSURE THE ACCESSIBILITY FOR FUTURE USE.

8	24	60618-1	PINS 24/18 BRASS/TIN	EDMO				
2	23	1-480426-0	MATE'N'LOCK 4 PIN CONNECTOR	EDMO				
8	22	60617-1	SOCKETS 24/18 BRASS/TIN	EDMO				
2	21	1-480424-0	MATE'N'LOCK 4 SOCKET CONNECTOR	EDMO				
12	14	AR	20	336-00021-00	CONTACTS	GARMIN		
4	19	M85049/52-1-10W	BACKSHELL					
1	18	MS3476W10-6SW	CONNECTOR, PLUG					
1	17	MS3476W10-6S	CONNECTOR, PLUG					
1	16	MS3474W10-6PW	CONNECTOR, RCPT					
1	15	MS3474W10-6P	CONNECTOR, RCPT					
15	AR	14	336-00055-00	CONTACTS		GARMIN		
8	13	D-436-37	SPLICE, BLUE			RAYCHEM		
4	12	MS22073-5	CIRCUIT BREAKER, 5A					
AR	11	392404	CABLE, ETHERNET			CARLISLE IT		
2	10	011-04489-00	GI 275 BASE			GARMIN		
15	2	9	330-90056-06	STRAIN RELIEF		GARMIN		
15	2	8	330-01430-01	CONNECTOR, RCPT		GARMIN		
2	7	011-04201-00	GMU 44B			GARMIN		
2	6	011-00978-00	GTP 59 OAT PROBE			GARMIN		
11	12	13	14	4	5	325-00238-02	CABLE ASSY, USB-A RECPT TO PIGTAIL, 48"	GARMIN
11	12	13	14	4	4	011-04038-00	CONFIGURATION MODULE	GARMIN
11	12	13	14	6	3	011-01855-04	BACKSHELL	GARMIN
11	12	13	14	6	2	330-00366-78	CONNECTOR, MALE, HD D-SUB	GARMIN
11	2	1	011-04489-30	GI 275, CLASS III, ADAHRS			GARMIN	
			-011	GARMIN GI 275 ADI/HSI INSTALLATION				
-011 QTY	ITEM	PART NUMBER	DESCRIPTION	REMARKS				

BILL OF MATERIALS

PREPARED	DS
REVIEWED	CP
RELEASED	MP
SCALE:	NTS



TITLE:	WIRING DIAGRAM GI 275 SYSTEM INSTALLATION B212	DWG:	E212-9022
REV:	A	SHEET:	1 OF 4

THIS DRAWING IS UNCONTROLLED UNLESS OPENED DIRECTLY FROM ECML'S CONTROLLED REPOSITORY

D

C

B

A

GARMIN GI 275 ADAHRS PILOT ADI (1)

AIRCRAFT POWER 1
AIRCRAFT POWER 2

AIRCRAFT GND
AIRCRAFT GND
LIGHTING BUS LO

LIGHTING BUS HI

CONFIG MODULE POWER
CONFIG MODULE GND
CONFIG MODULE DATA
CONFIG MODULE CLOCK

USB VBUS POWER
USB DATA HI
USB DATA LO
USB GND

ETHERNET OUT 2A
ETHERNET OUT 2B
ETHERNET IN 2A
ETHERNET IN 2B

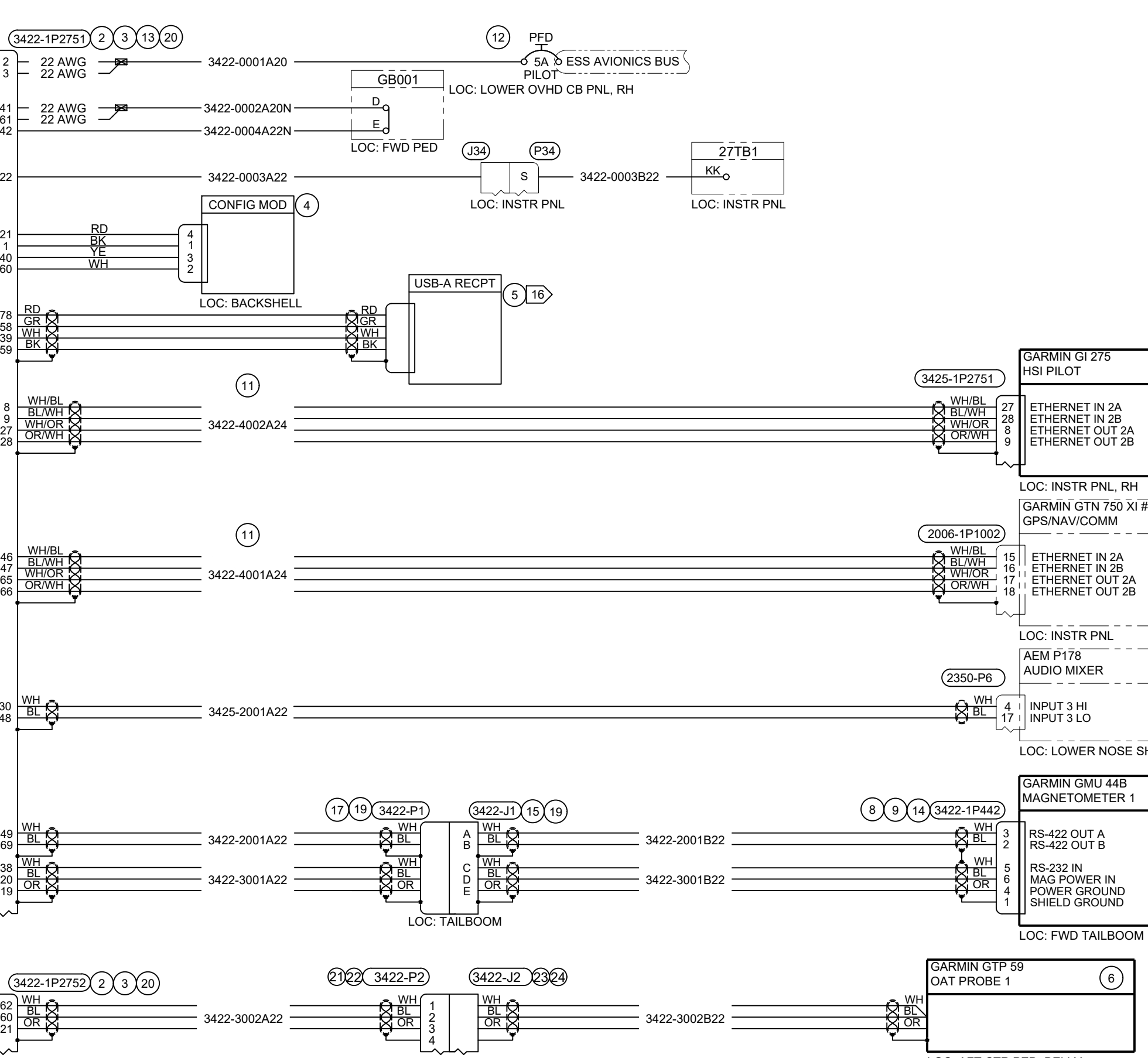
ETHERNET OUT 1A
ETHERNET OUT 1B
ETHERNET IN 1A
ETHERNET IN 1B

AUDIO OUT HI
AUDIO OUT LO

RS-485 (RS-422) A
RS-485 (RS-422) B

RS-232 OUT 1
LRU POWER OUT
LRU GROUND

OAT POWER
OAT PROBE IN HI
OAT PROBE IN LO



GARMIN GI 275 HSI PILOT (3425-1P2751)

ETHERNET IN 2A
ETHERNET IN 2B
ETHERNET OUT 2A
ETHERNET OUT 2B

LOC: INSTR PNL, RH

GARMIN GTN 750 XI #1 GPS/NAV/COMM (2006-1P1002)

ETHERNET IN 2A
ETHERNET IN 2B
ETHERNET OUT 2A
ETHERNET OUT 2B

LOC: INSTR PNL

AEM P178 AUDIO MIXER (2350-P6)

INPUT 3 HI
INPUT 3 LO

LOC: LOWER NOSE SHELF

GARMIN GMU 44B MAGNETOMETER 1 (7)

RS-422 OUT A
RS-422 OUT B

RS-232 IN
MAG POWER IN
POWER GROUND
SHIELD GROUND

LOC: FWD TAILBOOM

GARMIN GTP 59 OAT PROBE 1 (6)

LOC: AFT CTR PED, BELLY

TITLE: **WIRING DIAGRAM**
GI 275 SYSTEM INSTALLATION
B212

DWG: **E212-9022** REV: **A** SHEET: **2 OF 4**

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-011 GARMIN GI 275 ADI/HSI INSTALLATION

D

D

C

C

B

B

A

A

**GARMIN GI 275 ADAHRS
COPILOT ADI** (1)

AIRCRAFT POWER 1
AIRCRAFT POWER 2

AIRCRAFT GND
AIRCRAFT GND
LIGHTING BUS LO

LIGHTING BUS HI

CONFIG MODULE POWER
CONFIG MODULE GND
CONFIG MODULE DATA
CONFIG MODULE DATA
CONFIG MODULE CLOCK

USB VBUS POWER
USB DATA HI
USB DATA LO
USB GND

ETHERNET OUT 2A
ETHERNET OUT 2B
ETHERNET IN 2A
ETHERNET IN 2B

ETHERNET OUT 1A
ETHERNET OUT 1B
ETHERNET IN 1A
ETHERNET IN 1B

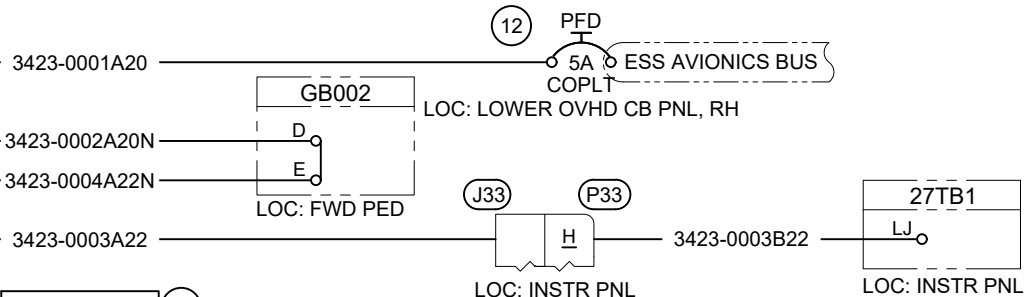
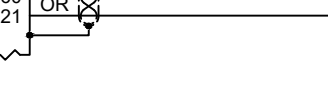
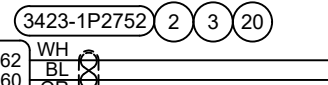
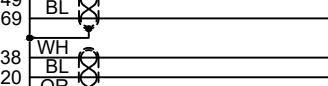
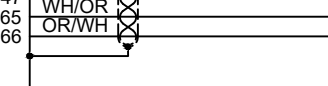
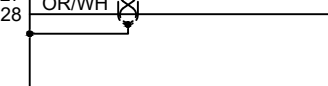
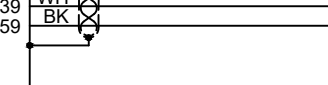
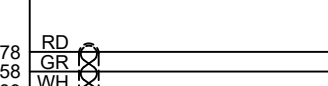
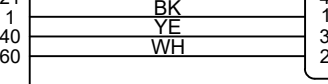
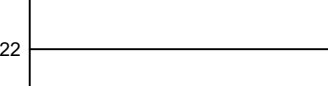
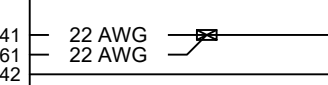
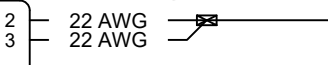
RS-485 (RS-422) A
RS-485 (RS-422) B

RS-232 OUT 1
LRU POWER OUT
LRU GROUND

OAT POWER
OAT PROBE IN HI
OAT PROBE IN LO

LOC: INSTR PNL, LH

3423-1P2751 (2) (3) (13) (20)



CONFIG MOD (4)

LOC: BACKSHELL

USB-A RECPT (5) (16)

3423-4002A24 (11)

3423-4001A24 (11)

3423-P1 (17) (19) **3423-J1** (15) (19)

LOC: TAILBOOM

3423-P2 (21) (22) **3423-J2** (23) (24)

LOC: UNDERFLOOR, AFT OF CTR PED

**GARMIN GI 275
HSI COPILOT** (3426-1P2751)

ETHERNET IN 2A
ETHERNET IN 2B
ETHERNET OUT 2A
ETHERNET OUT 2B

LOC: INSTR PNL, LH

**GARMIN GTN 650 XI #2
GPS/NAV/COMM** (2006-2P1002)

ETHERNET IN 2A
ETHERNET IN 2B
ETHERNET OUT 2A
ETHERNET OUT 2B

LOC: CTR PED

**GARMIN GMU 44B
MAGNETOMETER 2** (7) (8) (9) (14) (3423-1P442)

RS-422 OUT A
RS-422 OUT B
RS-232 IN
MAG POWER IN
POWER GROUND
SHIELD GROUND

LOC: AFT TAILBOOM

**GARMIN GTP 59
OAT PROBE 1** (6)

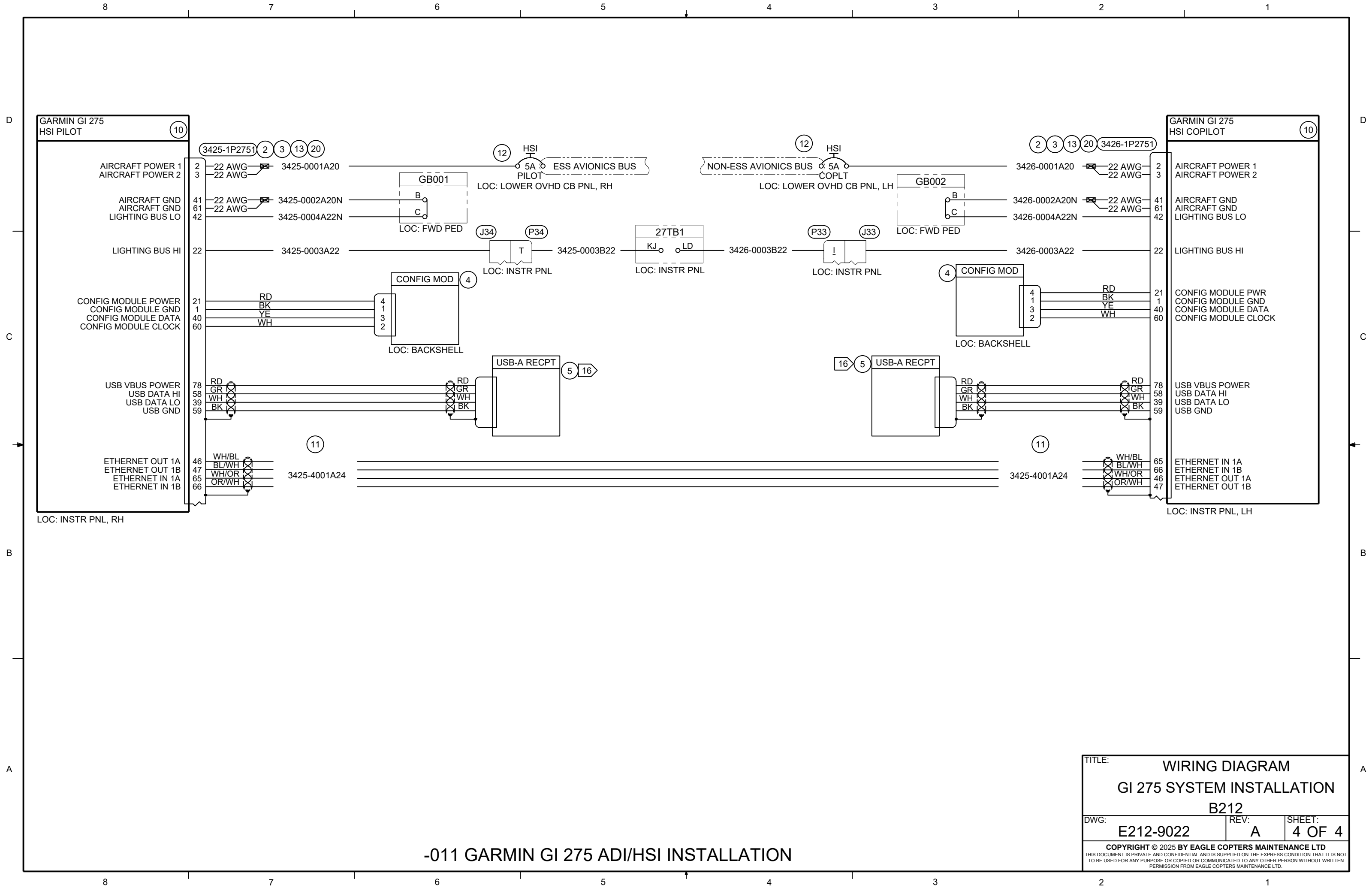
LOC: AFT CTR PED, BELLY

-011 GARMIN GI 275 ADI/HSI INSTALLATION

TITLE: **WIRING DIAGRAM
GI 275 SYSTEM INSTALLATION
B212**

DWG: **E212-9022** REV: **A** SHEET: **3 OF 4**

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-011 GARMIN GI 275 ADI/HSI INSTALLATION

TITLE:		
WIRING DIAGRAM GI 275 SYSTEM INSTALLATION B212		
DWG:	REV:	SHEET:
E212-9022	A	4 OF 4
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