

REV	DESCRIPTION	DATE
A	NEW ISSUE	09-09-2021
B	RENAMED TCAS. ADDED -013 CONFIG WITH NO DME INSTALLED	14-01-2023
C	ADDED -015 CONFIGURATION WITH NO DME INSTALL	12-02-2024

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

NOTES:

- PERFORM ALL WORK IN ACCORDANCE WITH BELL HELICOPTER 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 SHIELD TERMINATIONS SHALL BE INSTALLED PER MIL-S-83519 OR EQUIVALENT. SHIELD TERMINATIONS SHOWN AS "DAISY-CHAINED" ARE FOR DRAWING CLARITY ONLY. INDIVIDUAL SHIELD EXTENSIONS SHALL BE SPLICED AT A COMMON TIE POINT TO THE TERMINATING WIRES. THE BACK SHELL OR AIRFRAME GROUND MAY BE USED.
- ALL AIRFRAME GROUNDS SHALL BE VIA AMP 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 0.003 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 CHAPTER 4 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 MANUFACTURERS INSTALLATION MANUAL.
- LOWERCASE LETTER CONNECTOR PIN DESIGNATORS ARE SHOWN AS UNDERLINED UPPERCASE LETTERS.
- INCLUDED IN KIT PN: 011-02977-01
- INCLUDED IN KIT PN: 010-01217-02
- THE CUMULATIVE COAX CABLE LENGTH BETWEEN LRU AND ANTENNA NOT TO EXCEED 10 FT.
- POWER WIRES NOT TO EXCEED 30 FT.

AR (25)	AR (25)	AR (25)	11	M17/60-RG142	CABLE, COAX	PIC	
1	1	1	10	CI-105	ANTENNA, TRANSPONDER	COMANT	
2	2	2	9	190112	CONNECTOR, BNC	TE CONNECTIVITY	
13	1	1	8	011-00979-03	KIT, CONFIGURATION MODULE	GARMIN	
13	1	1	7	125-00081-00	BACKSHELL	GARMIN	
13	1	1	6	125-00084-00	BACKSHELL	GARMIN	
13	AR (77)	AR (77)	AR (77)	5	336-00021-00	CONTACT, PIN	GARMIN
13	1	1	4	330-00185-15	CONNECTOR, PLUG	GARMIN	
14	1	1	3	330-00185-62	CONNECTOR, PLUG	GARMIN	
1	1	1	2	MS22073-3	CIRCUIT BREAKER, 5A	MIL SPEC	
1	1	1	1	011-03303-00	TRANSPONDER, GTX 345R	GARMIN	
				-015	NO DME INSTALLED, GTN 750 ON INST PNL		
				-013	NO DME INSTALLED		
				-011	DME INSTALLED		
-015 QTY	-013 QTY	-011 QTY	ITEM	PART NUMBER	DESCRIPTION	REMARKS	

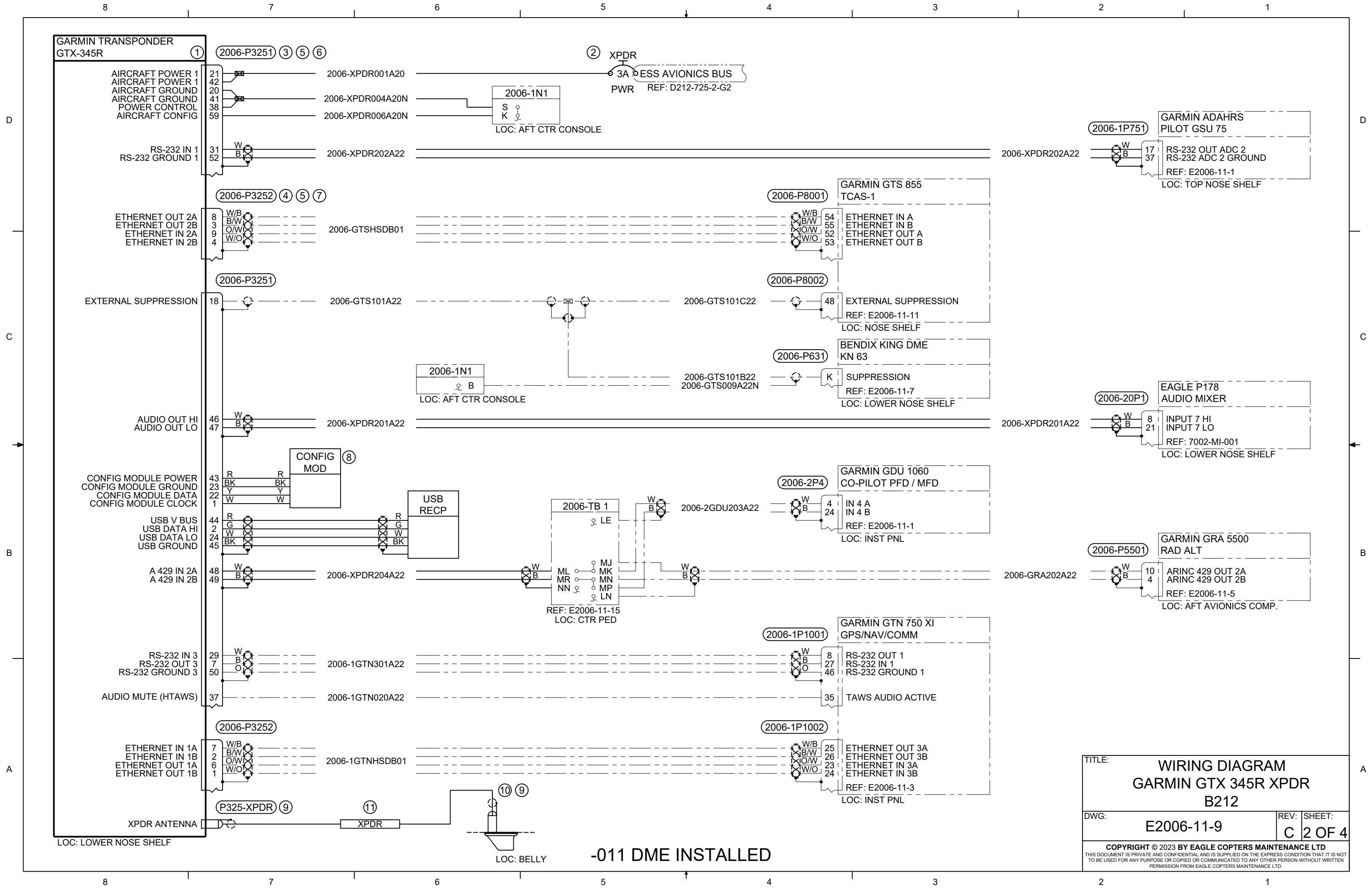
BILL OF MATERIALS

PREPARED	CP
REVIEWED	NF
RELEASED	RP
SCALE:	NTS



TITLE: WIRING DIAGRAM GARMIN GTX 345R XPDR B212		DWG: E2006-11-9
REV: C	SHEET: 1 OF 4	

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TITLE:		WIRING DIAGRAM GARMIN GTX 345R XPDR B212	
DWG:	E2006-11-9	REV:	C
		SHEET:	2 OF 4
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GARMIN TRANSPONDER GTX-345R ①

AIRCRAFT POWER 1
AIRCRAFT POWER 1
AIRCRAFT GROUND
AIRCRAFT GROUND
POWER CONTROL
AIRCRAFT CONFIG

RS-232 IN 1
RS-232 GROUND 1

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

EXTERNAL SUPPRESSION

AUDIO OUT HI
AUDIO OUT LO

CONFIG MODULE POWER
CONFIG MODULE GROUND
CONFIG MODULE DATA
CONFIG MODULE CLOCK

USB V BUS
USB DATA HI
USB DATA LO
USB GROUND

A 429 IN 2A
A 429 IN 2B

RS-232 IN 3
RS-232 OUT 3
RS-232 GROUND 3

AUDIO MUTE (HTAWS)

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

XPDR ANTENNA

LOC: LOWER NOSE SHELF

2006-P3251 ③ ⑤ ⑥

2006-P3252 ④ ⑤ ⑦

2006-P3251

2006-P3252

2006-P3251

2006-P3252

2006-P3251

2006-P3252

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2006-XPDR001A20

2006-XPDR004A20N

2006-XPDR006A20N

2006-XPDR202A22

2006-GTSHSDB01

2006-GTS101A22

2006-XPDR201A22

2006-2GDU203A22

2006-GRA202A22

2006-1GTN301A22

2006-1GTN020A22

2006-1GTNHSDB01

2006-1N1
S
K
LOC: AFT CTR CONSOLE

XPDR
3A
ESS AVIONICS BUS
PWR REF: D212-725-2-G2

2006-TB 1
LE
ML MR NN
MJ MK MN
MP LN
REF: E2006-11-15
LOC: CTR PED

2006-P8001

2006-P8002

2006-2P4

2006-1P1001

2006-1P1002

2006-1P751

2006-20P1

2006-P5501

GARMIN GTX 855 TCAS-1

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

EXTERNAL SUPPRESSION
REF: E2006-11-11
LOC: NOSE SHELF

GARMIN GDU 1060 CO-PILOT PFD / MFD

IN 4 A
IN 4 B
REF: E2006-11-1
LOC: INSTR PNL

GARMIN GTN 750 XI #1 GPS/NAV/COMM

RS-232 OUT 1
RS-232 IN 1
RS-232 GROUND 1

TAWS AUDIO ACTIVE

ETHERNET OUT 3A
ETHERNET OUT 3B
ETHERNET IN 3A
ETHERNET IN 3B
REF: E2006-11-3
LOC: CTR PED

GARMIN ADAHRS PILOT GSU 75

RS-232 OUT ADC 2
RS-232 ADC 2 GROUND
REF: E2006-11-1
LOC: TOP NOSE SHELF

EAGLE P178 AUDIO MIXER

INPUT 7 HI
INPUT 7 LO
REF: 7002-MI-001
LOC: LOWER NOSE SHELF

GARMIN GRA 5500 RAD ALT

ARINC 429 OUT 2A
ARINC 429 OUT 2B
REF: E2006-11-5
LOC: AFT AVIONICS COMP.

2006-XPDR202A22

2006-XPDR201A22

2006-GRA202A22

2006-1GTN301A22

2006-1GTN020A22

2006-1GTNHSDB01

TITLE: **WIRING DIAGRAM GARMIN GTX 345R XPDR B212**

DWG: **E2006-11-9** REV: **C** SHEET: **3 OF 4**

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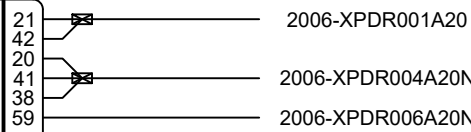
-013 NO DME INSTALLED

D
C
B
A

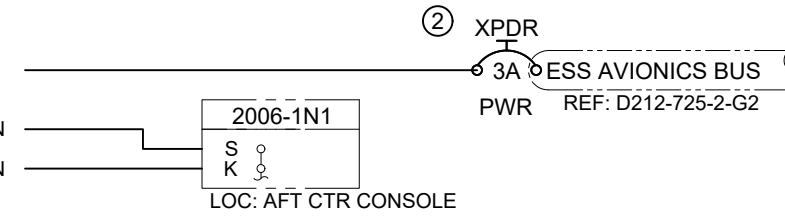
D
C
B
A

**GARMIN TRANSPONDER
GTX-345R**

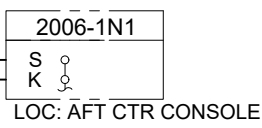
AIRCRAFT POWER 1
AIRCRAFT POWER 1
AIRCRAFT GROUND
AIRCRAFT GROUND
POWER CONTROL
AIRCRAFT CONFIG



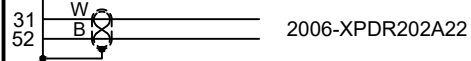
2006-XPDR001A20
2006-XPDR004A20N
2006-XPDR006A20N



② XPDR
3A ES AVIONICS BUS
PWR REF: D212-725-2-G2

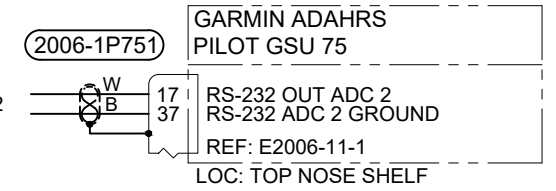


RS-232 IN 1
RS-232 GROUND 1



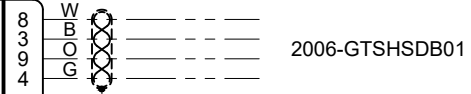
2006-XPDR202A22

2006-XPDR202A22

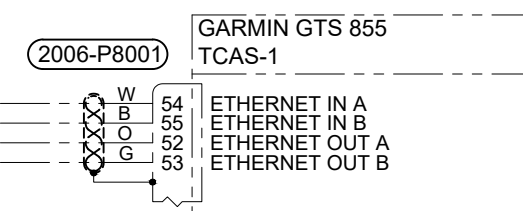


GARMIN ADAHRS
PILOT GSU 75
RS-232 OUT ADC 2
RS-232 ADC 2 GROUND
REF: E2006-11-1
LOC: TOP NOSE SHELF

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



2006-GTSHSDB01

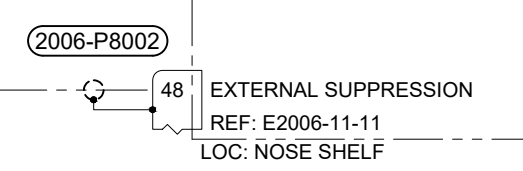


2006-P8001
GARMIN GTS 855
TCAS-1
ETHERNET IN A
ETHERNET IN B
ETHERNET OUT A
ETHERNET OUT B

EXTERNAL SUPPRESSION

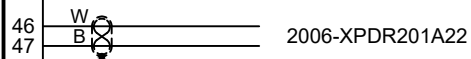


2006-GTS101A22



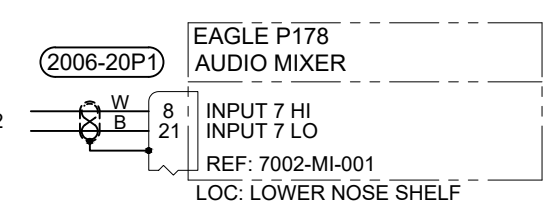
2006-P8002
EXTERNAL SUPPRESSION
REF: E2006-11-11
LOC: NOSE SHELF

AUDIO OUT HI
AUDIO OUT LO



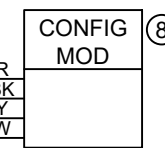
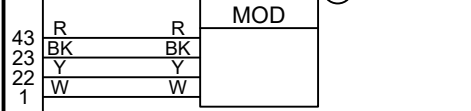
2006-XPDR201A22

2006-XPDR201A22

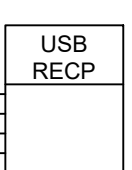


EAGLE P178
AUDIO MIXER
INPUT 7 HI
INPUT 7 LO
REF: 7002-MI-001
LOC: LOWER NOSE SHELF

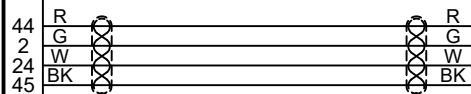
CONFIG MODULE POWER
CONFIG MODULE GROUND
CONFIG MODULE DATA
CONFIG MODULE CLOCK



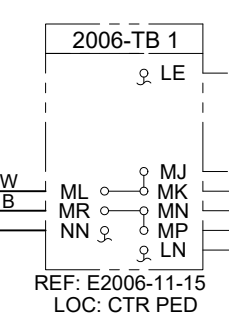
2006-GTSHSDB01



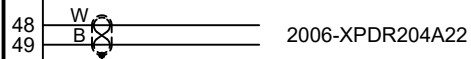
USB V BUS
USB DATA HI
USB DATA LO
USB GROUND



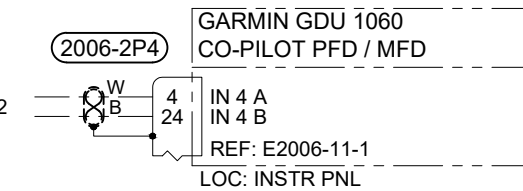
2006-GTSHSDB01



A 429 IN 2A
A 429 IN 2B

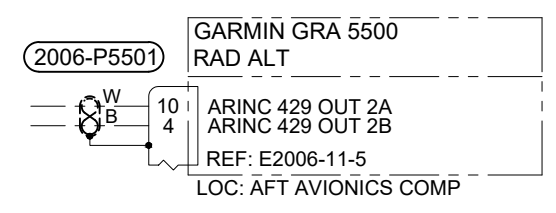


2006-XPDR204A22



2006-2P4
GARMIN GDU 1060
CO-PILOT PFD / MFD
IN 4 A
IN 4 B
REF: E2006-11-1
LOC: INSTR PNL

2006-XPDR204A22

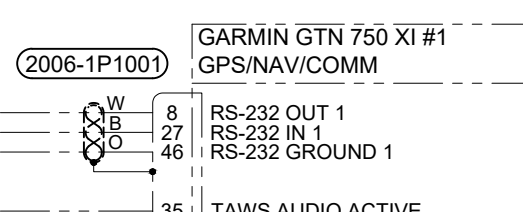


2006-P5501
GARMIN GRA 5500
RAD ALT
ARINC 429 OUT 2A
ARINC 429 OUT 2B
REF: E2006-11-5
LOC: AFT AVIONICS COMP

RS-232 IN 3
RS-232 OUT 3
RS-232 GROUND 3



2006-1GTN301A22

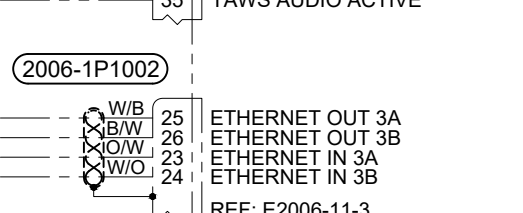


2006-1P1001
GARMIN GTN 750 XI #1
GPS/NAV/COMM
RS-232 OUT 1
RS-232 IN 1
RS-232 GROUND 1

AUDIO MUTE (HTAWS)

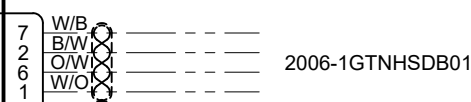


2006-1GTN020A22



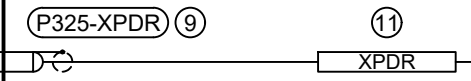
2006-1P1002
ETHERNET OUT 3A
ETHERNET OUT 3B
ETHERNET IN 3A
ETHERNET IN 3B
REF: E2006-11-3
LOC: INSTR PNL

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

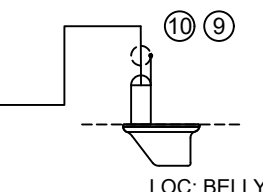


2006-1GTNHSD01

XPDR ANTENNA



P325-XPDR ⑨
XPDR



LOC: LOWER NOSE SHELF

LOC: BELLY

-015 NO DME INSTALLED, GTN 750 ON INSTR PNL

TITLE:
**WIRING DIAGRAM
GARMIN GTX 345R XPDR
B212**

DWG: **E2006-11-9** REV: **C** SHEET: **4 OF 4**

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