

BILL OF MATERIALS				
ITEM	QTY PER	PART NUMBER	DESCRIPTION	POTENTIAL SUPPLIER
1	1	011-03303-00	TRANSPONDER, GTX 345R	GARMIN
2	1	MS22073-3	CIRCUIT BREAKER, 3A	MIL SPEC
3	1	330-00185-62	CONNECTOR, PLUG	GARMIN
4	1	330-00185-15	CONNECTOR, PLUG	GARMIN
5	A/R (77)	336-00021-00	CONTACT, PIN	GARMIN
6	1	125-00084-00	BACKSHELL	GARMIN
7	1	125-00081-00	BACKSHELL	GARMIN
8	1	011-00979-03	KIT, CONFIGURATION MODULE	GARMIN
9	2	190112	CONNECTOR, BNC	TE CONNECTIVITY
10	1	CI-105	ANTENNA, TRANSPONDER	COMANT
11	A/R (25)	M17/60-RG-142	CABLE, COAX	PIC

REV	DESCRIPTION	INITIAL	YYYY-MM-DD
PA1	NEW ISSUE	EB	2021-09-09

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_____ 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 AND / OR CIRCULAR CONNECTOR INSTALLATION INSTRUCTIONS (GARMIN DOCUMENT 190-00313-12). 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.

RELEASED

ECN 22-120

2022-02-24 MC

AVIONICS DESIGN SERVICES
APPROVED FOR RELEASE

BY  12 OCT 2021
DATE

ORIGINAL IN RED

DESIGN	EB	 CALGARY, ALBERTA, CANADA
DRAWN	EB	
CHECKED	WK	
MFG. APPR.	LJ / CD	
DM RLSED.		TITLE: GARMIN GTX 345R TRANSPONDER WIRING DIAGRAM
DE RLSED.	N/A	
SCALE: NTS		NO: E2006-11-9
DATE: 2021-09-09		
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REV:	A	SHEET 1 OF 2

