			BILL OF MATERIALS		T
ITEM	QTY PER	PART NUMBER	DESCRIPTION	POTENTIAL SUPPLIER	1
1	1	010-00946-00	RAD ALT, GRA 5500	GARMIN	7
2	1	MS22073-5	CIRCUIT BREAKER, 5A	MIL SPEC	7
3	1	D38999/26ME35SA	CONNECTOR, PLUG	MIL SPEC	14
4	AR (55)	M39029/56-348	CONTACT, SOCKET	MIL SPEC	14
5	1	M95049/38S17N	BACKSHELL	MIL SPEC	14
6	1	011-01782-00	USB TYPE B RECEPTACLE	GARMIN	14
7	1	011-02582-00	CONFIGURATION MODULE	GARMIN	14
8	8	190108	CONNECTOR, COAX	PIC	1
9	AR (80)	S44193	CABLE, COAX	PIC	1
10	2	013-00378-00	ANTENNA, RAD ALT	GARMIN	7
11	2	PE9154	CONNECTOR, BULKHEAD	PE	7

 REV
 DESCRIPTION
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 A
 NEW ISSUE
 EB
 2021-09-09

NEW WIRE / UNIT

**EXISTING WIRE / UNIT** 

## NOTES:

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1. PERFORM ALL WORK IN ACCORDANCE WITH BELL HELICOPTER STANDARD PRACTICES MANUAL BHT-ELEC-SPM.

- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF BHT-ELEC-SPM CHAPTER 4 PARAGRAPH 4-9.
- 8. 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.
- 9. 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.
- 10. 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).
- 11. INSTALL SYSTEM IN ACCORDANCE WITH THE LATEST REVISION OF THE MANUFACTURERS INSTALLATION MANUAL.
- 12. LOWERCASE LETTER CONNECTOR PIN DESIGNATORS ARE SHOWN AS UNDERLINED UPPERCASE LETTERS.
- AS THE DRAIN WIRE IS UN-INSULATED, A TEFLON SLEEVE (18 AWG OR HIGHER) IS REQUIRED OVER THE EXPOSED AREA BACK TO THE OUTER INSULATION OF THE CABLE. THE DRAIN WIRE IS CONNECTED TO THE METALLIC AREA AROUND THE USB RECEPTACLE. REFERENCE GARMIN GRA 5500 INSTALLATION MANUAL, PN: 190-01277-00 REV. F, APPENDIX D, PAGE D-4, NOTE 5.
- 14. INCLUDED IN KIT PN: 011-02573-01
- 15. THE CUMULATIVE COAX CABLE LENGTH BETWEEN LRU AND ANTENNA NOT TO EXCEED 40 FT.
- POWER WIRES NOT TO EXCEED 40 FT.

RELEASED 2CECN 22-120 2022-02-24 MC



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DRAWN EB						
CHECKED WK						
MFG. APPR. LJ / CD		CALGARY, ALBERTA, CANADA				
DM RLSED.		TITLE: GARMIN GRA 5500 RAD ALT				
DE RLSED. N/A						
SCALE: NTS		WIRING DIAGRAM				
DATE: 2021-	09-09	E2006-11-5				
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