



TECHNICAL BULLETIN

412-17-239  
28 March 2017

**MODEL AFFECTED:** 412EP

**SUBJECT:** ADIU, DU, SOFTWARE UPGRADE TO SW 3.0  
AND GTN 750 MAIN SOFTWARE UPGRADE TO  
VERSION 6.11

**HELICOPTERS AFFECTED:** Serial numbers 37002 through 37013.

[Serial numbers 37014 and subsequent will have the intent of this bulletin accomplished prior to delivery.]

**COMPLIANCE:** Part 1

Recommended, to be accomplished 30 days prior to the accomplishment of Parts 2, 3, 4 and 5.

**Part 2, 3, 4 and 5**

Recommended, no later than May 1, 2018.

**DESCRIPTION:**

This Technical Bulletin (TB) provides the instruction required to perform the software upgrade of the Aircraft Data Interface Unit (ADIU), the Display Unit (DU), and the Garmin GTN-750 unit. These software changes, which are described in Appendix B, enable/improve a number of features of the 412EPI Integrated Avionic System (IAS). The software upgrades will be accomplished with the assistance of a Bell Helicopter authorized representative. Owners/operators will be required to contact Product Support Engineering (PSE) to coordinate the software upgrades.

**Part 1** of this bulletin requires the owner/operator to record and provide to PSE the affected ADIU and DU identification information requested in Appendix A.

**Part 2** provides the instructions to perform the ADIU P/N 412-074-011-105 software upgrade. After the software change, the ADIU will be identified as P/N 412-074-011-107

**Part 3** provides the instructions to perform the DU P/N 412-374-007-103 or 412-374-009-103 software upgrade. After the software change, the DU will be identified as P/N 412-374-007-105 or 412-374-009-105.

**Part 4** provides the instructions to perform the software upgrade of the Garmin GTN-750 P/N 011-02282-A0.

**Part 5** provides the instructions to perform ADIU/DU parameter/data upload and a functional check of the systems.

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

**APPROVAL:**

The engineering design aspects of this bulletin are FAA approved

**CONTACT INFO:**

For any questions regarding this bulletin, please contact:

Bell Helicopter Product Support Engineering - Medium Helicopters  
Tel: 450-437-6201 / 1-800-363-8028 / psemedium@bh.com

**MANPOWER:**

Approximately 8 man-hours are required to complete this bulletin. Man-hours are based on hands-on time.

**WARRANTY:**

There is no warranty credit applicable for parts or labor associated with this bulletin.

**MATERIAL:**

**Consumable Material:**

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Reference</u> *
Commercial	Isopropyl Alcohol	A/R	C-285
3950	Edge Sealer	1	C-349

\* C-XXX numbers refer to the consumables list in the BHT-ALL-SPM, Standard Practices Manual

**SPECIAL TOOLS:**

The tools and equipment listed below will be required for the accomplishment of this bulletin. Accessibility to these tools and equipment is the responsibility of the owner/operator. Other equipment and the software required to accomplish the upgrade will be provided by the Bell Helicopter representative.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>
412-077-078-101	GSE Harness Port 1	1
412-077-078-103	GSE Harness Port 2	1
DK-504-001-3	GSE Switchbox	1
GENERIC	Ground Power Unit (28.5 VDC)	1
412-770-019-109	DMITS Software	1
412-770-019-119	DMITS Software	1

**WEIGHT AND BALANCE:**

Not Affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

BHT-412-MMS-EPI, Maintenance Manual Supplement  
BHT-412-QRG-5, Quick Reference Guide  
BHT-412-IAM-5, Integrated Avionics Manual  
BHT-ELEC-SPM, Electrical Standard Practice Manual  
GARMIN SB 1580 Rev A.  
ADIU MP OFP document 412-770-013 Rev C  
ADIU IOP OFP document 412-770-014 Rev C  
RK Software Upload Procedure 9904-0296 Rev E

**PUBLICATIONS AFFECTED:**

BHT-412-IPBS-EPI, Illustrated Parts Breakdown Supplement  
BHT-412-MMS-EPI, Maintenance Manual Supplement  
BHT-412-FM-5, Rotorcraft Flight Manual  
BHT-412-QRG-5, Quick Reference Guide  
BHT-412-IAM-5, Integrated Avionics Manual

## ACCOMPLISHMENT INSTRUCTIONS:

### Part 1. Components serialization information acquisition.

1. Gain access to the ADIU and the DU.
2. Record the required information on the component serialization sheet (Appendix A).
3. Provide a copy of Appendix A to Product Support Engineering (PSE). It is the responsibility of the owner/operator to ensure that PSE has the latest information prior to the accomplishment of the Parts 2, 3, 4 and 5. Failure to provide the requested information will prevent the software change.

### Part 2. ADIU 412-074-011-105 parameters/faults download and software upgrade.

-NOTE-

Step 1 to 5 are required before performing DU software upgrade.

1. Prepare the helicopter for maintenance.
2. Apply 28 VDC power to the helicopter using the ground power unit.
3. Access the following maintenance pages on one of the Multi-Function Display (MFD) Units (Ref: BHT-412-MMS-EPI, Chapter 95).
  - CALIBRATION maintenance page
  - S/W REV - FAULT HISTORY maintenance page (All DU's)
  - CONFIGURATION maintenance page (All DU's)
  - PARAMETER SETUP maintenance page
4. Using the Appendix D, record the requested information. This information will be required to accomplish Part 5.
5. Download ADIU aircraft data file using DMITS software 412-770-019-109 and save each file (BHT-412-MMS-EPI, Chapter 95). Print a paper copy (recommended) of each page and file them with the helicopter's technical records.

### LOG MAINTENANCE PAGE RECORDS

- ADIU FAULTS
- EXCEEDANCES
- CHIP HISTORY
- AIRCRAFT FLIGHT LOG
- TIMER/COUNTERS
- POWER ASSURANCE
- AIRCRAFT DATA

6. Remove power from the helicopter.
7. Gain access to the left aft avionics compartment and disconnect the ADIU electrical connectors 3140A1P2 and 3140A1P3 and the ADMM connector 3140A1P5 from the ADIU unit.
8. Carry out ADIU software upgrade per Document 412-770-013 Rev C and 412-770-014 Rev C, Section 3.9.1.5.2, Step 1 to Step 37.
9. Reconnect connectors 3140A1P2 and 3140A1P3 and the ADMM connector 3140A1P5 to their corresponding ADIU receptacles.
10. Connect the GSE switch box DK-504-001-3 using harness 412-077-078-101 to helicopter Port 1 and harness 412-077-078-103 to helicopter Port 2. Connect the HHT cable between harness 412-077-078-103 connector and the GSE load box Port 2.
11. Connect personal computer (PC) to the GSE switch box using USB to USB cable.
12. Carry out ADIU Software Load Verification per Document 412-770-013 Rev C and 412-770-014 Rev C, Section 3.9.1.6, Step 1 to Step 9, to verify successful installation of ADIU MP OFP P/N 412-770-013-107 and ADIU IOP OFP P/N 412-770-014-107 (together, these are referred to as ADIU SW V3.0).
13. Carry out ADIU identification/serial number label replacement as follows:
  - a. With a flat blade, peel and remove the existing 412-074-011-105 identification/serial number label making sure not to scratch the paint.
  - b. Peel the backing off the new 412-074-011-107 identification/serial number label.
  - c. Firmly place the new identification/serial number label in the same position.
  - d. Apply a fine coat of edge sealer on the periphery of the new identification/serial number label.

-NOTE-

Only the 412-074-011 identification/serial number label will change with a software update. The 429-005-001 identification/serial number label will remain the same.

14. Fill in the ADIU Software Upload sheet (Appendix E).
15. Fill in the "Component Part Number Change Inspection Record Sheet" (Appendix C) with the ADIU assembly serial numbers.
16. Remove and disconnect the GSE switch box harnesses from Port 1 and Port 2 and remove the HHT cable from the GSE switch box.

**Part 3. DU 412-374-007-103 or 412-374-009-103 software upgrade.**

1. Gain access to each DU from the instrument panel (BHT-412-MMS-EPI, Chapter 95).
2. Carry out DU software upload on each DU and replace the identification label per Rogerson-Kratos Document P/N 9904-0296 Rev E.
3. Fill in the DU Software Upload table (Appendix E) with all requested information.
4. Remove power from the helicopter.
5. Fill in the "Component Part Number Change Inspection Record Sheet" (Appendix C) with the DU serial numbers and hardware level.
6. Reinstall all DUs to their respective positions (BHT-412-MMS-EPI, Chapter 95).

**Part 4. Garmin GTN-750 software upgrade and configuration setup.**

1. GAIN access to GTN-750 system configuration setting and record all configuration setting. (BHT-412-MMS-EPI, Chapter 97).
2. Upgrade Garmin GTN-750 Main Software to Version 6.11 as per Garmin Software Service Bulletin No. 1580 REV A.
3. Gain access to GTN-750 system configuration pages and perform applicable setting as mentioned in the BHT-412-MMS-EPI, Chapter 97, Garmin GTN-750 Configuration.

## Part 5. ADIU/DU parameter/data upload and system check.

1. Connect the GSE harnesses to Port 1 and Port 2 and connect the GSE switch box to a Personal Computer (PC) with DMITS SW loaded.
2. Verify that ADIU Chan A (3140CB1) and ADIU Chan B (3140CB2) circuit breakers are pushed in.
3. Verify that all DU circuit breakers are pushed in.
4. Verify that NAV/COM 1 SYS (3450CB5) and NAV/COM 1 XMT (3450CB7) circuit breakers are pushed in.
5. Apply power to the helicopter using ground power unit.
6. Upload ADIU Aircraft Data file previously saved in **Part 2** of this bulletin using DMITS software 412-770-019-119. (BHT-412-MMS-EPI, Chapter 95).

-NOTE-

LOG DATA page will show eight Usage Zone counters/timers. Zone 1 through Zone 4 will be populated with uploaded ADIU Aircraft Data file. Zone 5 through Zone 8 will be blank and start counting from the day of software upgrade.

7. Verify the configuration of the GTN-750 is set up as shown in latest revision of the BHT-412-MMS-EPI, Chapter 97.
8. Access the following maintenance pages on each individual DU to enter their respective setting and parameter selections, as previously recorded (Appendix D) in **Part 2** of this bulletin (BHT-412-MMS-EPI, Chapter 95).

-NOTE-

Ensure the Calibration maintenance page shows aircraft log W&B data.

- CALIBRATION maintenance page
- S/W REV - FAULT HISTORY maintenance page
- CONFIGURATION maintenance page
- PARAMETER SETUP maintenance page

9. If a Bell Helicopter (412-799-XXX or 412-899-XXX) or a 3<sup>rd</sup> party custom installation makes use of programmable CAS files, reload the programmable CAS files as per Bell Helicopter or 3<sup>rd</sup> party custom installation instructions or drawings.
10. Access S/W REV / FAULT HISTORY maintenance page on all DUs and verify that the checksum (CKSM) alpha-numeric numbers are identical to the ones shown in the table below (BHT-412-MMS-EPI, Chapter 95).

	<b>P/N</b>	<b>REV</b>	<b>CKSM</b>	<b>VERIFY</b>
DU CPU	0666-0278	3.0	3C2E3B5D	( )
ADIU OFF	412-770-013-107	CH-A	0A2EA13D	( )
		CH-B	0A2EA13D	( )

11. Perform an operational check of each DU (BHT-412-MMS-EPI, Chapter 95)
12. Perform an ADIU operational check (BHT-412-MMS-EPI, Chapter 95)
13. Make an entry in helicopter logbook and historical service records indicating compliance with this Technical Bulletin.



## APPENDIX A

### COMPONENT SERIALIZATION SHEET

The information specified below should be obtained directly from each component data-decal and sent to Bell Helicopter Product Support Engineering- Medium group at least 30 days prior to the scheduled accomplishment of this bulletin.

BELL 412EPI SERIAL NUMBER	
NAME OF OWNER OR OPERATOR	
DATE OF SURVEY (YYYY-MM-DD)	
SENT BY	
EMAIL ADDRESS OF SENDER	

#### Aircraft Data Interface Unit (ADIU)

ADIU Assembly PART NUMBER	412-074-011-105
ADIU Assembly SERIAL NUMBER	

#### Display Units (DU)

BELL DU #1 PART NUMBER	412-374-( )-103
RK DU #1 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	
DU HARDWARE LEVEL	

BELL DU #2 PART NUMBER	412-374-( )-103
RK DU #2 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	
DU HARDWARE LEVEL	

BELL DU #3 PART NUMBER	412-374-( )-103
RK DU #3 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	
DU HARDWARE LEVEL	

BELL DU #4 PART NUMBER	412-374-( )-103
RK DU #4 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	
DU HARDWARE LEVEL	

## APPENDIX B

### Summary of software 3.0 upgrade to the Bell 412 IAS.

ADIU/DU SW 3.0 changes:

The primary software change is to implement the improved CAT-A backup profile (formally referenced as Part D (Alternate Backup Procedure)), performance calculators support for the Increased Gross Weight (IGW) kit, and implement an Extended Hover Performance (EHP) kit. (Note 4 and 5)

- CAT-A Changes:
  - Improved CAT-A Backup Procedure replaced previous Helipad (part B) performance. The improved CAT-A Backup Procedure modified the DU and ADIU software inputs, tables and calculations to provide the same results as the charts in the approved BHT-412-FMS.
  - The CAT-A performance was updated to include the increased allowable density altitude ranges demonstrated for the Runway and Backup profile as part of the Increased Gross Weight (IGW) kit.
  - The CAT-A profile names were modified to match the current flight manual supplement. Software version 2.0 ELEV H-Pad became Side Step, Helipad became Backup, and the Type softkey is used to select Runway, Side Step or Backup.
  - The Display Unit software suppresses Landing Distance if the ADIU data is unavailable or invalid.
- IGW kit allowing operation up to 12,200 lbs (Note 4)
  - The IGW kit modified the existing operational ADIU performance calculators to add a 12,200 lbs. performance configuration.
    - The Standard configuration, and the Strake and Fast-Fin configuration remains at 11,900 lbs.
  - Drive type C was allocated to IGW to use wire strapping configuration of the DU and ADIU for the IGW kit.
  - The ADIU tables and equations provide the same results as the charts in the IGW flight manual supplement for the Bell-BasiX Pro™ performance calculators (Runway CAT-A, Hover and Weight and Balance).
- Extended Hover Performance (EHP) kit (Note 5)
  - Removes the 5-minute limit for hover between 81% and 100% mast torque based on airspeed and  $Q_M$  versus  $H_D$  limits while operating within engine maximum continuous power.
  - Wire strapping in the ADIU enables the kit.
  - When in Extended Hover, “LO SPD” replaces the 5-min Take Off (T/O) timer on the DU and the ADIU does not record an exceedance.
  - When above 60 knots the existing 5-min T/O timer, PSI indication, Limit/Limited Op and Exceedance are not affected.

In addition to activating the items noted above, these changes implemented function modifications and corrections to various reported issues accumulated to date and the following upgrades/improvements:

DU Software updates with new / modified functionality:

- FMS Heading Mode / APR indication
- Expanded current (4) Density Altitude Zones to (8) and re-identified them as Zone 1 thru 8.
  - Added softkey to switch display between zone 1 thru 4 and zone 5 thru 8.  
(See IAM for zone definition)
- CAT-A Red Wind Arrow
- CAT-A Runway TDP landing distance adjustment
- CAT-A Runway Landing Distance change
- FDR Parameter update – add Yaw rate
- Improved W&B Predictive Fuel 10 lbs rounding
- EDR Engine Parameter Labels changed from IND to SEL'D
- Trapped fuel quantity adjustment
- Hover Fuel Weight 10 lbs rounding improvement
- Wind Arrow / Speed Display (Wind Data Retention)
- Flight Director (FD) loss of source annunciation

ADIU Software updates with new / modified functionality:

- Mast Torque Signal Conditioner monitor
- Expanded current (4) Density Altitude Zones to (8) and re-identified them as Zone 1 thru 8. A
- Winterization Heater kit data added to Hover Performance
- Door Caution changed - added 250 msec persistence
- Modified HYD TREND pressure set point to > 1100 psig or 1090 if HFT is >= 10 degrees C and remove the inhibit logic.
- W&B Perf page Predictive Fuel - Modified for Jet A fuel above 2000 lbs
- Added OEI Limit Select Inhibit to support for LHPIC Kit
- FD NAV Status Changed to support FD loss of source annunciation

GTN 6XX/7XX Main Software Version 6.11 contains the following changes from previous approved Software:

- Added support for optional internal Class A TAWS (enablement required) (Note1)
- Added support for ARINC 743A output (Note1)
- Added Scheduled Messages
- Added Chart selection option for the chart map overlay when there are multiple potential charts for a given approach (this is a current issue in South America)
- Added support for Flight Stream 210 Connex™ (Note1)
- Added FastFind predictive flight plan entry
- Added support for Flight Plan importing through Connex or the data card
- Added support for Database SYNC (Note1)
- Added support for WireAware™ (wire-strike avoidance technology) for Hazardous Obstacle Transmission (HOT) lines and power lines.
- Added airspace altitude overlay on the moving map
- Added Simple Frequency Entry for COM and NAV frequencies (leading “1” and trailing zero(s) not required)
- Added display of station identifiers for active and standby COM and NAV frequencies
- Added ability for data fields to be configured to display radial and distance to the tuned VOR
- Added ability for the data fields on the map page of the GTN 6XX/7XX and the default navigation page within the GTN 6XX to be configured as shortcuts for nearly all of the pages within the GTN
- Added support for user-defined Checklists
- Added ability to configure the color of the ownship icon to enhance visibility
- Removed ADS-B fault annunciation nuisance alerts prior to obtaining GPS fix
- Added configuration for transponder 1090ES ADS-B Out option to be set On, Off, or Pilot Select
- Added support for custom holding patterns.
- Added Search and Rescue patterns (Note 3).
- Added controls to animate precipitation from several weather sources. (Note 1)
- Updated ownship icon options.
- Added display of fuel range rings that show aircraft range until operating on reserve fuel.
- Added support for the time to top-of-descent user field based on the VCALC utility.
- Added additional Metric and Imperial unit display options.
- Updated VCALC page to increase input range for the offset distance and change the default altitude type from MSL to Above WPT.
- Added ability to load a secondary approach while flying the missed approach hold for a prior approach.
- Changed the trajectories between leg transitions to define the navigation path to include the curved trajectory between legs, and CDI guidance along the trajectory and depiction of the curved path on the moving map.
- Changed the map so that it shows previous flight plan waypoints.
- Changed CDI guidance to be provided during the transition from a VI leg to a CF leg.
- Added LP +V to provide advisory vertical guidance on LP approaches.

- Added support to fly Instrument Approach Procedures (IAPs) with radius-to-fix (RF) leg types. (Note 1)
- Added additional range marking to the 2.5 NM range and 5 NM ranges for the weather radar display. (Note 1)
- Added support for lighting offset adjustment when configured for lighting bus backlight input. (Note 2)
- Added support for control of GMA 35c Bluetooth audio and pairing. (Note1)
- Added support for GWX 70R with the mechanically limited 90-degree sweep size. (Note 1)
- Added GTN COM/NAV radio control from G3X™ Touch display. (Note 1)

The following service documents have been resolved:

- Service Advisory 1479: GTN 6XX/7XX Catalog Flight Plan Menu Preview
- Service Advisory 1503: GTN 6XX/7XX Checklist Page User Field
- Service Advisory 1540: GTN 7XX Units with Main Software Version 5.11 or 5.13 and FliteCharts Updates
- Service Advisory 1574: GTN 6XX/7XX User-Defined Waypoints
- Service Advisory 1312 - (Note 1)
- Service Advisory 1352 - Corrected issue that the course deviation indicator (CDI) may deflect in the wrong direction (away from the desired track) while making a course change between two intersecting legs of an active flight plan
- Service Advisory 1344: Corrected issue where CDI (Course Deviation Indicator)/HSI (Horizontal Situation Indicator) scaling on a limited number of LPV and LNAV/VNAV approaches was incorrect
- Service Advisory 1363: Corrected issue where user-modified published procedures saved by the operator as part of a stored flight plan could be corrupted after updating the Navigation Database. (not applicable after database cycle 1307)
- Installation Bulletin 1365: Corrected issue that required configuring ARINC 429 data ports to transmit data for multiple devices using a single output channel (Note 1)
- Service Advisory 1372: Corrected issue where RNAV approaches are unavailable for selection when the approach includes LP minima and also has no published vertical descent angle (VDA)
- Service Advisory 1409: Corrected issue where the GTN display may occasionally exhibit a momentary flicker
- Service Advisory 1473: Corrected issue where the range of a no-bearing traffic alert (TA) does not update. (Note 1)

**Note 1:** These features are not enabled in the approved 412EPI configuration. These requires additional approval and installation features (wiring and/or equipment) to activate.

**Note 2:** No change in the previously approved lighting configuration for the 412EPI.

**Note 3:** Requires Bell Kit 412-706-119-101 GTN Enablement Cards

**Note 4:** Required Bell Kit 412-706-140-101 Increased Gross Weight

**Note 5:** Required Bell Kit 412-706-120-101 Extended Hover Performance

## APPENDIX C

The information specified below should be obtained directly from each component data-decal and sent to Bell Helicopter Product Support Engineering- Medium group

### COMPONENT PART NUMBER CHANGE INSPECTION RECORD SHEETS

BELL 412EPI SERIAL NUMBER	>
DATE (YYYY-MM-DD)	>

#### Aircraft Data Interface Unit (ADIU)

ADIU Assembly PART NUMBER	412-074-011-107
ADIU Assembly SERIAL NUMBER	

#### Display Units (DU)

BELL DU #1 PART NUMBER	412-374-( )-105
RK DU #1 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	3.0
DU HARDWARE LEVEL	

BELL DU #2 PART NUMBER	412-374-( )-105
RK DU #2 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	3.0
DU HARDWARE LEVEL	

BELL DU #3 PART NUMBER	412-374-( )-105
RK DU #3 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	3.0
DU HARDWARE LEVEL	

BELL DU #4 PART NUMBER	412-374-( )-105
RK DU #4 PART NUMBER	160M053-( )
DU SERIAL NUMBER	
DU SOFTWARE LEVEL	3.0
DU HARDWARE LEVEL	

**APPENDIX D**

**CALIBRATION MAINTENANCE PAGE RECORD SHEET**

<b>BELL 412EPI SERIAL NUMBER</b>	
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**FUEL CALIBRATION**

TANK	QTY(USG)		K-FACTOR (PPG)	
	L/H	R/H	L/H	R/H
MAX STD				
FWD				
MID				
LARGE AUX				
SMALL AUX				

**AIRCRAFT WEIGHT & BALANCE**

EMPTY WEIGHT (LBS)	
EMPTY BALANCE (STA)	
CABIN STATION	POSITION 1
CABIN STATION	POSITION 2
AFT STATION	POSITION 3
AFT STATION	POSITION 4

**LOW AIRSPEED**

Left Offset	Left – Airspeed - Right	Right Offset
	N/A	N/A

**AFCS OUTPUT (DU1 & DU4)**

Baro Offset (ft)			
<b>DU 1</b>		<b>DU 4</b>	

**S/W REV – FAULT HISTORY MAINTENANCE PAGE RECORD SHEET**

**S/W REV**

	P/N	REV	CKSM	VERIFY
DU CPU	0666-0278	3.0	3C2E3B5D	( )
ADIU OFP	412-770-013-107	CH-A	0A2EA13D	( )
		CH-B	0A2EA13D	( )



**APPENDIX D**  
(continued)

**FAULT HISTORY**

N/A if no faults are displayed (as it should be)

DU	ADIU CH-A	ADIU CH-B

**CONFIGURATION MAINTENANCE PAGE RECORD SHEET**

Display	Setting
AFCS	
RAD-ALT	
SAR	
HOV CUES	
VOR/ILS	
DME/TCN	
ADF1	
DF/ADF2	
FMS1	
FMS2	
MKR BCN	
TCAS	
Wx RADAR	
TAWS	
RA ALERT	
FLIR DATA	
FLIR	
VIDEO1	
VIDEO2	
JOYSTICK	
GENERATORS	
AUX TANK	
RTR BRAKE	
HTR TYPE	
ENG OIL LMT	
LDG GEAR	
LS EXT MCP	
DRIVE SYS	

**APPENDIX D**  
(continued)

**PARAMETER SET-UP MAINTENANCE PAGE RECORD SHEET**

<b>DISPLAY</b>	<b>Setting</b>
LOCAL TIME UTC Hrs	
BARO SET UNITS	
BARO SET MODE	
FLT DIR BARS	
NAV PSEL MODE	
VNAV MODE	
OAT UNITS	
AURAL ALERT LEVEL	
RA-AURAL ALERT	
BARO ALT ALERT	
METRIC ALT DISPLAY	
WTS/FUEL DISPLAYS	
TAWS POP-UP	
TCAS POP-UP	
APR-HOV ON MOT	

## APPENDIX E

### Aircraft Data Interface Unit (ADIU) SOFTWARE UPLOAD

DESCRIPTION		Verified
PART 2 OF THIS BULLETIN PERFORMED BY	>	()
HELICOPTER SERIAL NUMBER	>	()
DATE (YYYY-MM-DD)	>	()
ADIU SERIAL NUMBER	>	()
		()
CHAN A: MP SOFTWARE CHECKSUM 412-770-013-107	> 0A2EA13D-897F8CE1	()
CHAN A: IP SOFTWARE CHECKSUM 412-770-014-107	> 0A4B1E58-DC3E6F17	()
CHAN B: MP SOFTWARE CHECKSUM 412-770-013-107	> 0A2EA13D-897F8CE1	()
CHAN B: IP SOFTWARE CHECKSUM 412-770-014-107	> 0A4B1E58-DC3E6F17	()
		()
LABEL (DATA-DECAL) REPLACED BY	>	()

### DISPLAY UNITS (DU) SOFTWARE UPLOAD

DESCRIPTION		Verified
PART 3 OF THIS BULLETIN PERFORMED BY	>	()
HELICOPTER SERIAL NUMBER	>	()
DATE (YYYY-MM-DD)	>	()
DU S/N _____ CKSM	> 3C2E3B5D	()
DU S/N _____ CKSM	> 3C2E3B5D	()
DU S/N _____ CKSM	> 3C2E3B5D	()
DU S/N _____ CKSM	> 3C2E3B5D	()
EACH LABELS (DATA-DECALS) REPLACED BY	>	()

### GARMIN GTN-750 SOFTWARE UPLOAD

DESCRIPTION		Verified
PART 4 OF THIS BULLETIN PERFORMED BY:	>	()
HELICOPTER SERIAL NUMBER	>	()
DATE (YYYY-MM-DD)	>	()
GTN UNIT SERIAL NUMBER	>	()
MAIN SOFTWARE VERSION	> 6.11	()