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FAA APPROVED  
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT

FOR

## APICAL FLOAT KIT P/N 604.9501

ON

Bell Helicopter Textron  
Model 407 Helicopters

REGISTRATION NO. \_\_\_\_\_

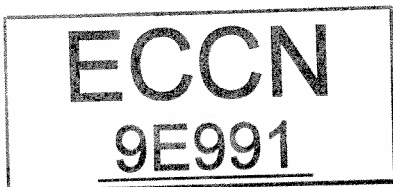
SERIAL NO. \_\_\_\_\_

This supplement shall be attached to this Model 407 Basic Rotorcraft Flight Manual when the AERONAUTICAL ACCESSORIES, INC. Apical Float Kit 604.9501 is installed in accordance with STC No. SR01450LA.

The information contained herein supplements the information of the Basic Rotorcraft Flight Manual only in those areas listed herein. For limitations, procedures, and performance data not contained in this supplement, consult the Basic Rotorcraft Flight Manual and applicable Rotorcraft Flight Manual Supplements.

FAA Approved:

Lance T. Gant, Manager  
Rotorcraft Certification Office, ASW-170  
Fort Worth, Texas 76193



FAA Approved  
Date: JUN 02 2010

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**AERONAUTICAL ACCESSORIES, INC.  
Rotorcraft Flight Manual Supplement for  
Apical Emergency Float Kit on Bell Model 407 Helicopters**

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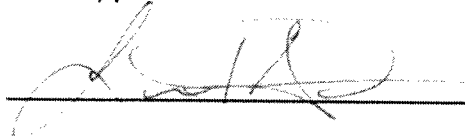
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**LOG OF REVISIONS**

| Revision No. | Date     | Description  | Pages              |
|--------------|----------|--|--------------------|
| N/C          |          | Original Revision<br>-Signed by: Mgr, Flight Test Br, ANM-160L, FAA, Los Angeles ACO,<br>Transport Airplane Directorate  | All                |
| A            | 08/30/04 | Reformatted document, renumbered/reordered sections to align with<br>Bell 407 Flight Manual numbering<br>Replaced (section) Introduction with (section) General Information<br>Added Float activation to Section 3, Emergency/Malfunction<br>Procedures<br>-Signed by: Carl Mittag, Manager, ASW-170 | All<br>4<br>6      |
| B            |          | Reformatted document to new standard<br>Deleted General Information Section<br>Corrected placard illustration, Section 1-20<br>Created Manufacturer's Data Section using (old) General Information<br>section information  | All<br>-<br>5<br>8 |

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**Apical Emergency Float Kit on Bell Model 407 Helicopters**

**SECTION 1: LIMITATIONS**

**1-3. TYPES OF OPERATION**

Emergency floats are installed for assistance during emergency landing on water. Flight following water landing is prohibited.

**1-6. WEIGHT AND CENTER OF GRAVITY**

Actual weight change shall be determined after kit is installed and ballast readjusted, if necessary, to return empty weight CG to within allowable limits. Refer to CG vs weight empty chart in basic helicopter flight manual.

**1-7. AIRSPEED**

**1-7-A. FLOATS STOWED**

Floats stowed, covers installed – same as basic helicopter.

**1-7-B. FLOATS INFLATED**

Maximum inflation airspeed – 60 KIAS.

Maximum airspeed – 60 KIAS.

**1-8. ALTITUDE**

Maximum inflation altitude – 5000 feet Hp.

**1-20. INSTRUMENT MARKINGS AND PLACARDS**

On instrument panel, in view of pilot.



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**SECTION 2: NORMAL PROCEDURES**

**2-3. PREFLIGHT CHECK**

2-3-A. Accomplish pre-flight float system check prior to each over water operation.

1. Condition of hoses - Check
2. Float covers – Check for cleanliness and security
3. Inflation cylinder pressure – Verify proper pressure IAW placard

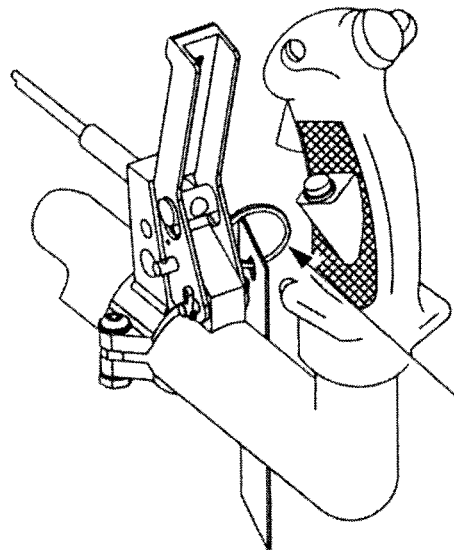
**2-4. INTERIOR AND PRESTART CHECK**

2-4-A. Pre-flight – Over Water

1. Remove detent pin from inflation handle prior to over water flight. See Figure 1.

2-4-B. Pre-flight – Over Land

1. Do not remove detent pin in inflation handle. See Figure 1.



Detent pin must be removed prior to over water flight and re-installed upon landing.

**Figure 1 – Example of Cyclic Installation**

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**SECTION 3: EMERGENCY / MALFUNCTION PROCEDURES**

**3-15. EMERGENCY FLOAT ACTIVATION**

1. Airspeed – 60 KIAS maximum
2. Descent – Establish approximately 500 FPM
3. Float activation handle – Pull

**3-16. AFTER EMERGENCY WATER LANDING**

Take off is prohibited.

**SECTION 4: PERFORMANCE**

No change from basic manual.

**SECTION 5: WEIGHT AND BALANCE**

No change from basic manual.

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**Steerable Landing Light on Bell Model 407 Helicopters**  
**Manufacturer's Data**

**SYSTEM DESCRIPTION**

The Emergency Float Assembly will allow the helicopter to land on water during an emergency situation. The emergency floatation kit is approved for emergency use to aid in keeping the helicopter sufficiently upright and in adequate trim to permit safe and orderly evacuation during an emergency water landing. The emergency floatation kit is not approved for ditching in accordance with 14CFR 27.563 and 27.801. Activation of the emergency float handle causes stored nitrogen (or helium) to inflate the emergency floats.

Installation of the Apical Kit 604.9501 on Bell 407 Model Helicopters incorporates a manual inflation system, 6 emergency floats with covers and inflation-related hoses and installation hardware.