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Eurocopter Model EC120B				
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FAA Approved: <u>Shan Ripph</u> for Manager, Seattle Aircraft Certification Office Date: 16 Nov 09 Revised:				
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1. INTRODUCTION

This supplement must be attached to the appropriate FAA approved Eurocopter Rotorcraft Flight Manual when an Onboard Systems 200-351-00 Cargo Hook Kit is installed in accordance with Supplemental Type Certificate (STC) No. SR02028SE. The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement, consult the basic Rotorcraft Flight Manual and Eurocopter's Rotorcraft Flight Manual Supplement – External Load Transport "Cargo Sling".

The cargo hook kit, in combination with the rotorcraft's existing cargo hook provisions, provides a means for transporting external loads. The installation includes the cargo hook and an external manual release cable to interface with the rotorcraft's internal manual release system. The cargo hook kit also includes an electrical connector that allows it to interface with the rotorcraft's existing cargo hook electrical release system.

2. LIMITATIONS

The basic Flight Manual and Eurocopter Flight Manual Supplement – External Load Transport "Cargo Sling" remain applicable.

The cargo hook is approved for non-human external cargo only.

With a load attached to the cargo hook, operation shall be conducted in accordance with the respective national operational requirements. For U.S. operators, FAR Part 133 is applicable.

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2. LIMITATIONS continued

Weight Limitation

The Cargo Hook is rated for 3600 lbs (1632 kgs).

Consult the Eurocopter Flight Manual Supplement - External Load Transport "Cargo Sling" for rotorcraft external load limitations.

Longitudinal CG Limits

Consult the Eurocopter Flight Manual Supplement - External Load Transport "Cargo Sling" for longitudinal cg limits when an external load is attached.

Airspeed Limits

Consult the Eurocopter Flight Manual Supplement – External Load Transport for airspeed limits when an external load is attached.

Maximum operational air speed with external loads is dependent upon the load configuration and sling length. It is the responsibility of the operator to establish the maximum operational speed for each specific configuration.

Placards

Consult the Eurocopter Flight Manual Supplement - External Load Transport "Cargo Sling" for placard information.

3. EMERGENCY PROCEDURES

Consult the Eurocopter Flight Manual Supplement for your particular rotorcraft model for emergency procedures.

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 NORMAL The normal p and in the Transport "Ca or modified by	PROCEDURES procedures specified in the basi Flight Manual Supplement - argo Sling" remain applicable and the following.	c Flight Manu External Lo nd are complet	ial ad ed
 Before each C Visually c are secure Visually c damage ar Visually c Visually c cracks. Visually c security. Cycle the ensure pro switch on open. The position b load beam in the open 	argo Hook use perform the follo heck all cargo hook fasteners to check the cargo hook electrica d security. heck the cargo hook case for crack heck the cargo hook load beam theck the manual release cable cargo hook's electrical releas per operation. Pressing the CA cyclic should cause the cargo ho e cargo hook may be returned y manually pushing up on the should snap shut. The cargo ho n position to facilitate loading by	wing. ensure that th al connector f cks and damage for gouges a for damage a e mechanism RGO RELEAS pok load beam d to the lock load beam. T pok may be flow a ground crew	ey For e. nd nd to SE to ed he vn f.

4. NORMAL PROCEDURES continued

7. Cycle the manual release mechanism to ensure proper operation. Pull the manual release lever in the cockpit. The cargo hook load beam must open. Return the cargo hook load beam to the locked position by manually pushing up on it. The load beam should snap shut. Verify that the hook lock indicator on the side of the hook returns to the fully locked position.



In the closed and fully locked position the



4. NORMAL PROCEDURES continued

8. Check the manual release cable rigging through the window in the cargo hook manual release cover. With the cargo hook closed and locked, rotate the manual release lever clockwise to remove the free play (the free play is taken up when the hook lock indicator begins to move, this is also readily felt as the lever rotates relatively easily for several degrees as the free play is taken up) and hold it in this position while checking the gap between the release lever fork and the cable ball end as shown below. Visually check that there is approximately a minimum gap of 1/8" (3.2 mm) as shown in Figure 2.

Figure 2 Manual Release Cable Rigging



4. NORMAL PROCEDURES continued

Cargo Hook Rigging

Extreme care must be exercised in rigging a load to the Cargo Hook. Figure 3 shows the recommended rigging configuration.



The example shown is not intended to represent all possibilities. It is the responsibility of the operator to assure the hook will function properly with the rigging. Some combinations of small primary rings and large secondary rings could cause fouling during release.



Nylon type straps (or similar material) or rope must not be used directly on the cargo hook load beam. If nylon straps or rope must be used they should be first attached to a steel primary ring. Verify that the ring will freely slide off the load beam when it is opened. Only the primary ring should be in contact with the cargo hook load beam.

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5. **PERFORMANCE**

The basic Flight Manual and Flight Manual Supplement -External Load Transport "Cargo Sling" issued by Eurocopter remain applicable.

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