Please check web site at www.onboardsystems.com for the latest revision of this manual					
FA	A APPROVED				
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT					
Cargo Hook Suspension Kit with Talon LC Hydraulic Cargo Hook for the Eurocopter EC120B Rotorcraft					
R/N S/N					
FAA Approved: <u>Jonal O. W. J.</u> for Manager, Seattle Aircraft Certification Office Date: <u>3/Oct</u> 07 . Revised:					
	RFM Supplement	Document Number 121-031-00			
SYSTEMS	EC120B	Page			

1. General

This supplement must be attached to the appropriate FAA approved Eurocopter Rotorcraft Flight Manual when an Onboard Systems 200-308-00 Cargo Hook Kit is installed in accordance with Supplemental Type Certificate (STC) NO. SR01795SE. 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 Rotorcraft Flight Manual Supplement – External Load Transport issued by Eurocopter.

The 200-308-00 Cargo Hook Kit is comprised of:

- A suspended frame below the rotorcraft that supports the cargo hook and load cell.
- An electrical release system that provides means for release by pilot actuation of a release switch on the cyclic. The cargo hook kit interfaces with the rotorcraft's OEM installed electrical release switch cyclic wiring.
- A hydraulic release system, which provides an additional means of releasing a cargo hook load. A lever mounted to the collective actuates it.
- A load weigh system, which is comprised of an indicator mounted within the cockpit, a load cell above the cargo hook, and interconnecting wiring harness.

UNBOARD SYSTEMS	RFM Supplement	Document No 121-031	umber -00	Rev. 0
	EC120B	Page 2 of 11	FAA Approved OCT 3 1 200	

2. Limitations

The limitations specified in the basic Flight Manual and Rotorcraft Flight Manual Supplement – External Load Transport issued by Eurocopter remain applicable and are completed or modified by the following.

2.1 Operation



The 200-308-00 cargo hook suspension kit does not interface with Eurocopter's VEMD.

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. This cargo hook is approved for non-human cargo, class B rotorcraft load combinations only.

The load weigh indicator shall be operated in accordance with Section 3 of Owner's Manual 120-123-00.

2.2 Placards

The 200-308-00 kit includes the following placard(s).

Mounted on the belly of the helicopter in view of ground personnel:

MAX. HOOK LOAD 1543 LBS. 700 KGS.

ONBOARD SYSTEMS	RFM Supplement	Document No 121-031	ent Number -031-00 Rev. 0	
	EC120B	Page 3 of 11	FAA A OCT	pproved 3 1 2007

3. Emergency Procedures

Consult Eurocopter's Rotorcraft Flight Manual Supplement – External Load Transport for emergency procedures.

3.1 Cargo Hook Fails to Release Electrically

In the event that the Cargo Hook will not release the external load electrically, proceed as follows:

1. Pull the release lever located on the collective to release the external load.



4. Normal Procedures

The limitations specified in the basic Flight Manual and Rotorcraft Flight Manual Supplement – External Load Transport issued by Eurocopter remain applicable and are completed or modified by the following.



The 200-308-00 cargo hook suspension kit does not interface with Eurocopter's VEMD.

Before each Cargo Hook use perform the following procedures. If the procedures are not successful do not use the equipment until the problem has been corrected.

1. Check the hydraulic release system for excess air in the lines by pulling the release lever firmly until it bottoms out. Check the push rod position (see Figure 2). If some of the green ring on the push rod is visible, the system is ready for use. If none of the green ring is visible, the system needs to be bled. Refer to applicable Owner's Manual or ICA for bleed instructions.

ENBOARD SYSTEMS	RFM Supplement	Document No 121-031	umber -00	Rev. 0	
	EC120B	Page FAA App 5 of 11 OCT		pproved 3 1 2007	



4. Normal Procedures continued

4. Cycle the electrical release mechanism to ensure proper operation. Pressing the CARGO RELEASE switch on cyclic should cause cargo hook load beam to open. The cargo hook may be returned to the locked position by manually pushing up on the load beam. The cargo hook should snap shut. The hook may be flown in the open position to facilitate loading by a ground crew.

Verify that the hook lock indicator on the side of the hook returns to the fully locked position. In the fully locked position the hook lock indicator should align with the lines on the cover (see Figure 3).





4. Normal Procedures continued

- 5. Inspect the external electrical harnesses and hydraulic hose for damage and chafing.
- 6. Swing the cargo hook and load cell to their full extreme positions to verify that the electrical harnesses and hydraulic hose are not strained and do not limit the range of motion.
- 7. To initialize the Load Indicator, perform the following: Power on the Load Indicator and allow it to warm up for 5 minutes (with no load on the hook). Press both Indicator buttons at the same time to go to the setup mode. Scroll through the menu, using the left button, until "0 in" (see Figure 4) is displayed, then press the right button. Remove any weight from the cargo hook that is not to be zeroed out and press either button to complete the procedure.

Figure 4 Load Indicator



RFM Supplement	Document Nu 121-031		Rev. 0
EC120B	Page 8 of 11	FAA A Oct	Approved 3 1 2007

4. Normal Procedures continued

Cargo Hook Rigging

Extreme care must be exercised in rigging a load to the Cargo Hook. The following illustration 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. See Figure 5.					
	RFM Supplement	Document N 121-03		Rev. 0	
SYSTEMS	EC120B	Page 9 of 11		pproved 3 1 2007	



5. Performance

The basic Flight Manual and Rotorcraft Flight Manual Supplement – External Load Transport issued by Eurocopter remains applicable.

	RFM Supplement	Document No 121-031		Rev. 0
SYSTEMS	EC120B	Page 11 of 11	FAA A OCT	Approved 3 1 2007