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**FAA APPROVED
ROTORCRAFT FLIGHT MANUAL
SUPPLEMENT**

STC SR01166SE

**Cargo Hook Kit
with Talon LC Hydraulic Cargo Hook
for the
Airbus Helicopters AS350 Series Rotorcraft**

R/N _____ S/N _____

FAA Approved: 
for Manager, Seattle Aircraft Certification Office
Federal Aviation Administration
Renton, Washington
Date: 2/22/2018

	RFM Supplement	Document Number 121-014-01	
	Cargo Hook Kit	Page 1 of 10	Revision 1

Record of Revisions

Rev.	Date	Page(s)	Reason for Revision
0	Dec. 13, 2007	All	Initial Release.
1	Feb. 22, 2018	All	Removed reference to class B rotorcraft load combinations and updated this statement. Updated format to match that of Airbus and to reflect current wording used in other RFMSs. Updated cargo hook rigging section.



RFM Supplement

Document Number
121-014-01

Rev. 1

Cargo Hook Kit

Page
2 of 10

FAA Approved
FEB 22 2018

1. GENERAL

This supplement must be attached to the appropriate FAA approved Airbus Helicopters Rotorcraft Flight Manual when an Onboard Systems 200-281-01 or 200-281-02 Cargo Hook Kit is installed in accordance with Supplemental Type Certificate (STC) No. SR01166SE. 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 “Cargo Swing” Rotorcraft Flight Manual Supplement issued by Airbus Helicopters.

The P/N 200-281-01 Cargo Hook Kit replaces the cargo hook and the manual release cable system on the rotorcraft’s existing cargo hook swing suspension system. The cargo hook is replaced with an Onboard Systems cargo hook with hydraulic release and the manual release cable system is replaced with a hydraulic release system.

The P/N 200-281-02 Cargo Hook Kit is similar to the 200-281-01 except it includes a collective friction adjustment knob, which is shorter than the OEM version in order to accommodate the hydraulic release lever on the B3 model collective.



RFM Supplement

Document Number

121-014-01

Rev. 1

Cargo Hook Kit

Page

3 of 10

FAA Approved

FEB 22 2018

2. **LIMITATIONS**

The basic Flight Manual and “Cargo Swing” Rotorcraft Flight Manual Supplement issued by Airbus Helicopters remain applicable and are complemented by the following.

Operating Limitations

With a load attached to the cargo hook, operation shall be conducted in accordance with the respective national operational requirements.

The cargo hook kit configurations (as installed per this STC SR01166SE) do not meet the 14 CFR part 27 certification requirements for Human External Cargo (HEC).

NOTICE

The cargo hook kit equipment certification approval does not constitute operational approval; operational approval for external load operations must be granted by the local Aviation Authority.

Cargo hook maximum load

The maximum load to be carried on the cargo hook is the lesser of that specified by the Airbus Helicopters’ “Cargo Swing” Flight Manual Supplement or 3500 lbs (1588 kg).

3. **EMERGENCY PROCEDURES**

Consult the Airbus Helicopters’ “Cargo Swing” Flight Manual Supplement for emergency procedures.

	RFM Supplement	Document Number 121-014-01	Rev. 1
	Cargo Hook Kit	Page 4 of 10	FAA Approved FEB 22 2018

4. NORMAL PROCEDURES

The “Cargo Swing’ Rotorcraft Flight Manual Supplement issued by Airbus Helicopters remains applicable and is complemented by the following.

NOTICE

The Airbus Helicopters’ Load Indicator “LD ON” lights are inoperative with the Onboard Systems cargo hook installed.

Pre-flight Check

Prior to a flight involving external load operations perform the following procedures. If the procedures are not successful do not use the equipment until the problem has been corrected.

1. Move the cargo hook throughout its range of motion and verify that the electrical harness and hydraulic hose are not pulled tight in any position.
2. Visually check the electrical harness and hydraulic hose and their connections at the cargo hook for damage and security.
3. 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 4.1). 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.



RFM Supplement

Document Number
121-014-01

Rev. 1

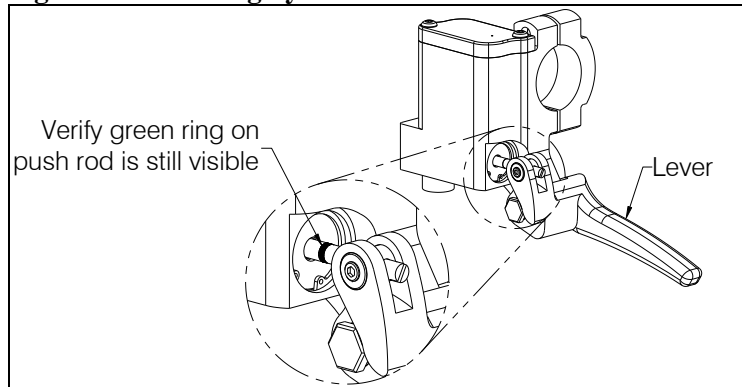
Cargo Hook Kit

Page
5 of 10

FAA Approved
FEB 22 2018

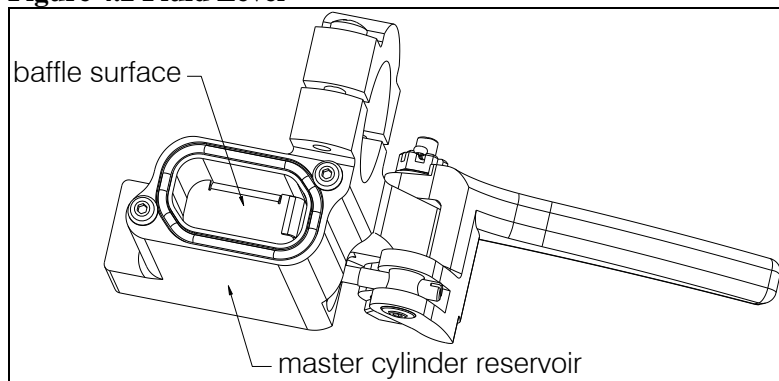
4. NORMAL PROCEDURES continued

Figure 4.1 Checking System for Excess Air



4. Check the fluid level in the master cylinder reservoir. The master cylinder reservoir features a transparent lid through which the fluid level can be checked. Hydraulic fluid must be visible over the baffle surface.

Figure 4.2 Fluid Level



5. Cycle the hydraulic release mechanism to ensure proper operation. Pull the release lever located on the collective and the cargo hook load beam should open. Return the cargo hook to the locked position by manually pushing up on the load beam. The cargo hook should snap shut.

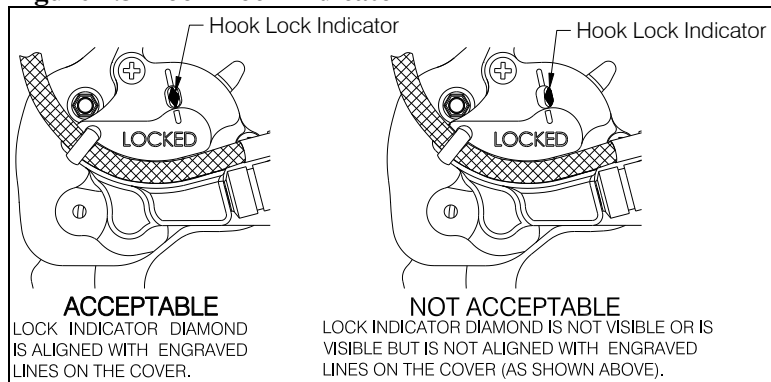
4. NORMAL PROCEDURES continued

6. Cycle the electrical release mechanism to ensure proper operation. Press the CARGO RELEASE switch on cyclic and the cargo hook load beam should 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.

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 4.3).

The hook may be flown in the open position to facilitate loading by a ground crew.

Figure 4.3 Hook Lock Indicator



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 and rigging to avoid.



The examples shown are not intended to represent all possibilities. It is the responsibility of the operator to ensure the hook will function properly with the rigging.

Nylon Type Straps or Rope

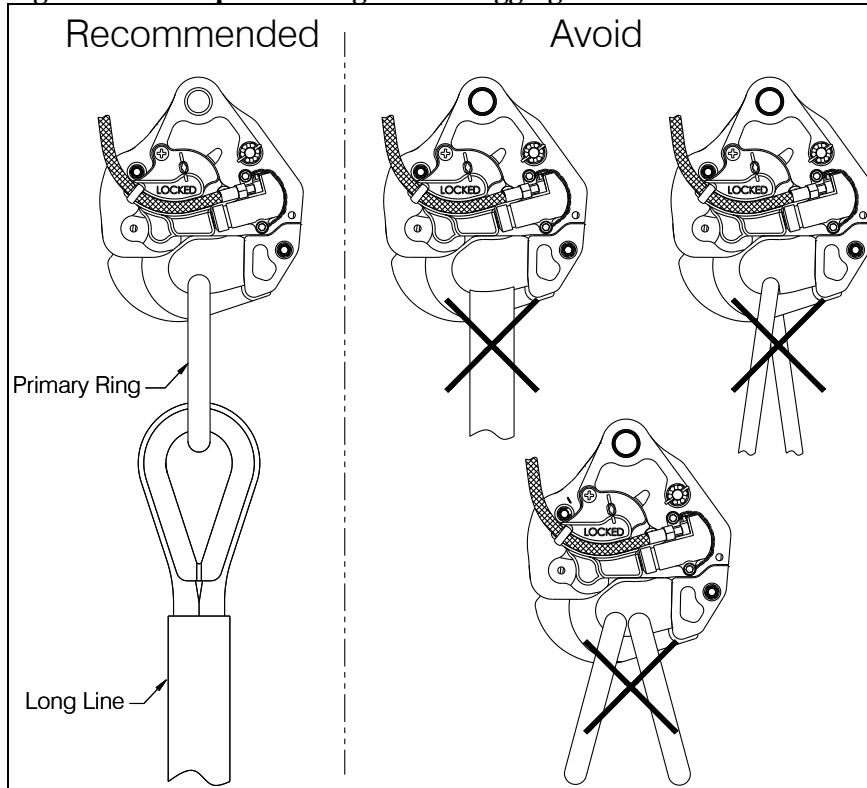


Nylon type straps (or similar material) or rope must not be used directly on the cargo hook load beam. If nylon straps or rope must be used they should be first attached to a steel primary ring. Verify that the ring will freely slide off the load beam when it is opened. Only the primary ring should be in contact with the cargo hook load beam. See Figure 4.4.

	RFM Supplement	Document Number 121-014-01	Rev. 1
	Cargo Hook Kit	Page 8 of 10	FAA Approved FEB 22 2018

4. NORMAL PROCEDURES continued

Figure 4.4 Examples of Cargo Hook Rigging



5. PERFORMANCE

The basic Flight Manual and Rotorcraft Flight Manual Supplement-Transport of External Loads issued by Airbus Helicopters remain applicable.

	RFM Supplement	Document Number 121-014-01	Rev. 1
	Cargo Hook Kit	Page 10 of 10	FAA Approved FEB 22 2018