



14218 Aetna St.
Van Nuys, CA. 91401
Document Number LU-RFM-001

**FAA APPROVED
ROTORCRAFT FLIGHT MANUAL
SUPPLEMENT
FOR THE
EUROCOPTER MODEL
AS-350 B, BA, B1, B2, B3, C, D AND D1
AS-355 E, F, F1, F2, AND N
WHEN EQUIPPED WITH THE

EXTERNAL ATTACH FRAME**

REGISTRATION #: _____ SERIAL #: _____

The information in this supplement is FAA approved material and must be attached to the FAA Approved AS 350 355 Rotorcraft Flight Manual when the airplane has been modified by the installation of Tyler External Attach Frame in accordance with:

STC # SR 01652 LA

The information contained herein supplements or supersedes the information in the basic Rotorcraft Flight Manual only in those areas listed herein. For limitations, Procedures and Performance information not contained in this Supplement, consult the basic Rotorcraft Flight Manual.

FAA APPROVED: _____

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Federal Aviation Administration
Los Angeles Aircraft Certification Office
Transport Airplane Directorate

FAA DATE: OCT. 28, 2004




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Supplement to the Eurocopter RFM for
 Models AS-350 B, BA, B1, B2, B3, C, D, & D1
 AS-355 E, F, F1, F2 & N
 when modified with the Cargo Rack System

STC Number SR 01852 LA

LOG OF PAGES

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N/C	TL i 1-7	28 Oct 2004	Initial Issue	 <hr/> <i>Acting</i> Mgr, Flight Test Branch ANM-160L, FAA, Los Angeles ACO, Transport Airplane Directorate DATE: <u>OCT. 29, 2004</u>



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1. SECTION 1 – GENERAL

The Tyler External Attach Frame consists of the 4130 steel tubular frame members and a releasable hook.



Figure 1 Right Front View of Installed Racks with External Attach Frame



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The mount is attached to the landing gear by two clamps, to the aft fuselage attach point, and a Bi-Pod frame mounted to the transmission deck. (The Bi-Pod frame may be left in place when the external frame is removed.)

The external attach frame may be installed on either or both sides of the aircraft.

The external attach frame may be used in conjunction with the Tyler A-Star TSOP Rack System, STC# SR01449LA.



Figure 2 Left Rear View of the Attach Points



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Figure 3 Left Rear View of the Engine Deck Attach Points

CAUTION

Lateral CG can be easily exceeded with heavy weights on the
External Attach Frame.



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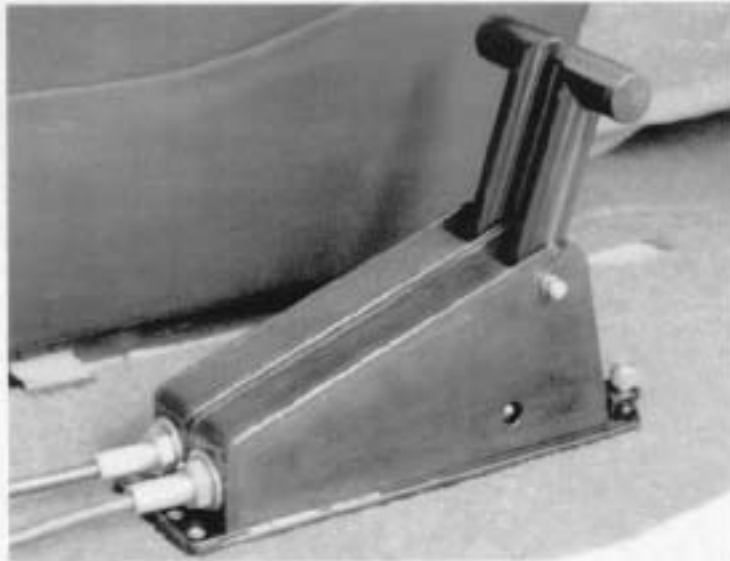


Figure 4 Hook Release Handles

A hook release handle is installed on the floor, right of the pilot's seat.

2. SECTION 2 – LIMITATIONS

2.1 AIRSPEED

Reduce to hovering flight.

2.2 ATTACH FRAME WEIGHT LIMIT

Maximum Weight: 360 pounds



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3. SECTION 3 – EMERGENCY PROCEDURES

Jettison the load from the hook by pulling out and back on the release handle.

WARNING

Hook loads in excess of approximately 80 pounds may not allow the hook to release.

4. SECTION 4 – NORMAL PROCEDURES

No Change

5. SECTION 5 - PERFORMANCE

5.1 HOVER PERFORMANCE

No Change

5.2 CLIMB PERFORMANCE

No Change



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6. SECTION 6 – WEIGHT AND BALANCE

The weight and balance data must be considered for each flight.

Distribution of the load on the external attach frames must be considered.

CAUTION

Lateral CG can be easily exceeded with heavy weights on the external attach frames. Compute the aircraft weight and balance before flight.

The longitudinal CG of the hook is 108.78 inches.

The lateral CG of the hook is:

Left -60.79 inches

Right +60.79 inches

Tyler Camera Systems
14218 Aetna St.
Van Nuys, CA 91401

ASTAR CARGO RACK
DWG. LIST NO. TCS LU-001
DATED:03-19-03 REV. N/C

Tyler Camera Systems
EXTERNAL ATTACH FRAME
for
Eurocopter / Aerospatiale
AS-350 & AS-355 Series Helicopters

MDL LOG OF REVISIONS

REV.NO.	PAGES	DATE	DESCRIPTION
ORIG	ALL	03-19-03	INITIAL RELEASE
A	ALL	07-02-04	ADDITION OF LA-039-040-041-42

TYLER CAMERA SYSTEMS
14218 AETNA ST.
VAN NUYS, CA. 91401

LU INSTL.
DWG. LIST NO. LU-001
DATE: 07-02-04 REV A

A-STAR EXTERNAL ATTACH FRAME

DRAWING NUMBER	NUMBER OF SHEETS	REVISION LETTER	REVISION DATE	DRAWING TITLE
LA-001	1	N/C	02-22-03	ROPE RELEASE HOOK ASSEMBLY
LA-002	1	N/C	02-24-03	HOOK BODY
LA-003	1	1	08-24-04	HOOK LATCH
LA-004	1	N/C	02-25-03	HOOK
LA-005	1	N/C	02-26-03	HOOK BODY SIDE PLATE
LA-006	1	N/C	03-28-04	PULL CABLE CLAMP
LA-007	1	N/C	02-28-03	PULL CABLE DOWEL
LA-008	1	N/C	02-28-03	SHORT SPRING RETAINER
LA-009	1	N/C	02-28-03	LONG SPRING RETAINER
LA-010	1	N/C	03-01-03	ARM FRONT LIFT TAB
LA-011	1	N/C	03-01-03	ARM REAR LIFT TAB
LA-012	1	1	01-15-04	HOOK LATCH ROLLER
LA-013	1	1	01-15-04	ARM
LA-014	1	A	06-24-04	CABLE RELEASE LEVER HANDLE
LA-015	1	A	06-24-04	CABLE RELEASE LEVER ARM
LA-016	1	A	06-30-04	CABLE RELEASE LEVER BOX
LA-017	1	B	07-02-04	CABLE ROD END

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DWG. LIST NO. LU-001
DATE: 07-02-04 REV A

A-STAR EXTERNAL ATTACH FRAME

DRAWING NUMBER	NUMBER OF SHEETS	REVISION LETTER	REVISION DATE	DRAWING TITLE
LA-018	1	N/C	03-10-03	SPECIAL WELD-IN ROD END
LA-019	1	N/C	03-11-03	END COLLAR
LA-020	1	N/C	03-11-03	UNIVERSAL TAB
LA-021	1	N/C	03-11-03	TAB NO. 2
LA-022	1	N/C	03-11-03	SMALL END COLLAR
LA-024	1	N/C	03-11-03	BIG END COLLAR
LA-026	1	N/C	03-11-03	LET DOWN ARM BRACE STRUT
LA-028	1	N/C	03-12-03	SUPPORT TUBE NO. 1
LA-029	1	N/C	03-14-03	TOP "Y" BRACKET
LA-030	1	N/C	03-14-03	SUPPORT TUBE NO. 2
LA-031	1	B	07-02-04	ROPE RELEASE LEVER ASSEMBLY
LA-032	1	A	06-24-04	CARGO LETDOWN UNIT ASSEMBLY
LA-033	1	N/C	03-18-03	TIE-DOWN BAR
LA-033L	1	N/C	03-18-03	TIE-DOWN BAR
LA-034	1	N/C	03-18-03	TIE DOWN BAR SPUD
LA-035	1	N/C	03-18-03	TIE-DOWN BAR
LA-036	1	N/C	03-18-03	TAB NO. 3
LA-037	1	N/C	03-18-03	LEVER HANDLE PLUG
LA-038	1	1	06-22-04	CABLE RELEASE LEVER BOX PLATE
LA-039	1	N/C	06-24-04	BOX PLATE RECIEVER
LA-040	1	N/C	06-22-04	BOX PLATE RECIEVER TAB

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A-STAR EXTERNAL ATTACH FRAME

DRAWING NUMBER	NUMBER OF SHEETS	REVISION LETTER	REVISION DATE	DRAWING TITLE
LA-041	1	N/C	06-22-04	BOX CLAMP PLATE
LA-042	1	N/C	07-02-04	CABLE ROD END PIN