TYLER®
Camera Systems • Technologies
MISSION SOLUTIONS

EXTERNAL ATTACH FRAME

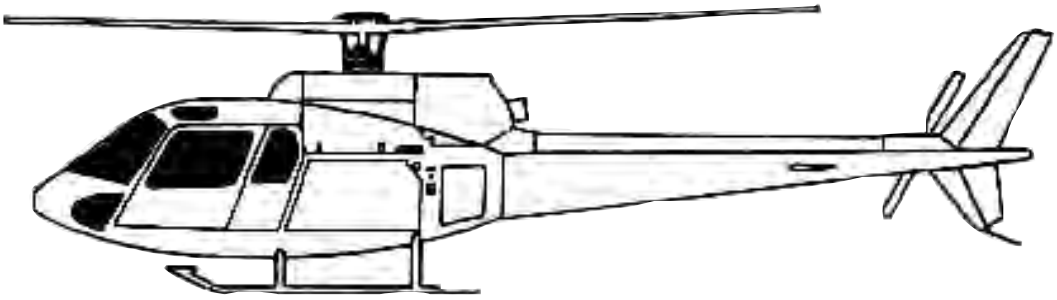
ASTAR / TWINSTAR

INSTALLATION MANUAL

Tyler - External Attach Frame

For Airbus H125 & AS-350 Series Helicopters

FAA STC # SR01652 LA • Transport Canada File No.C-10-0273



PLEASE RETURN THIS MANUAL WITH EQUIPMENT

Tyler Camera Systems 14218 Aetna Street Van Nuys, California 91401 • USA
www.tylertech.net • 800-390-6070 • FAX (818) 989-0423

MODEL: Eurocopter 350 &355
JOB #:

REPORT #: INSTLU - 001
DATE: 3-11-03

EXTERNAL ATTACH FRAME

INSTALLATION MANUAL FOR

EUROCOPTER FRANCE 350 & 355 SERIES HELICOPTERS

PREPARED BY: G. Wood

OF PAGES: 17

CHECKED BY: N. Tyler
3-21-03

OF DRAWINGS: 0

APPROVED BY:

REVISIONS

DATE	PAGES AFFECTED	REVISION LETTER		APPROVAL
6-24-04	ALL	NC	ORIGINAL ISSUE	
8-23-06	ALL			

SECTION 1

Fast Rope Assembly to TSOP Installation

RIGHT SIDE SHOWN

View of transmission compartment with TOP “Y” BRACE installed

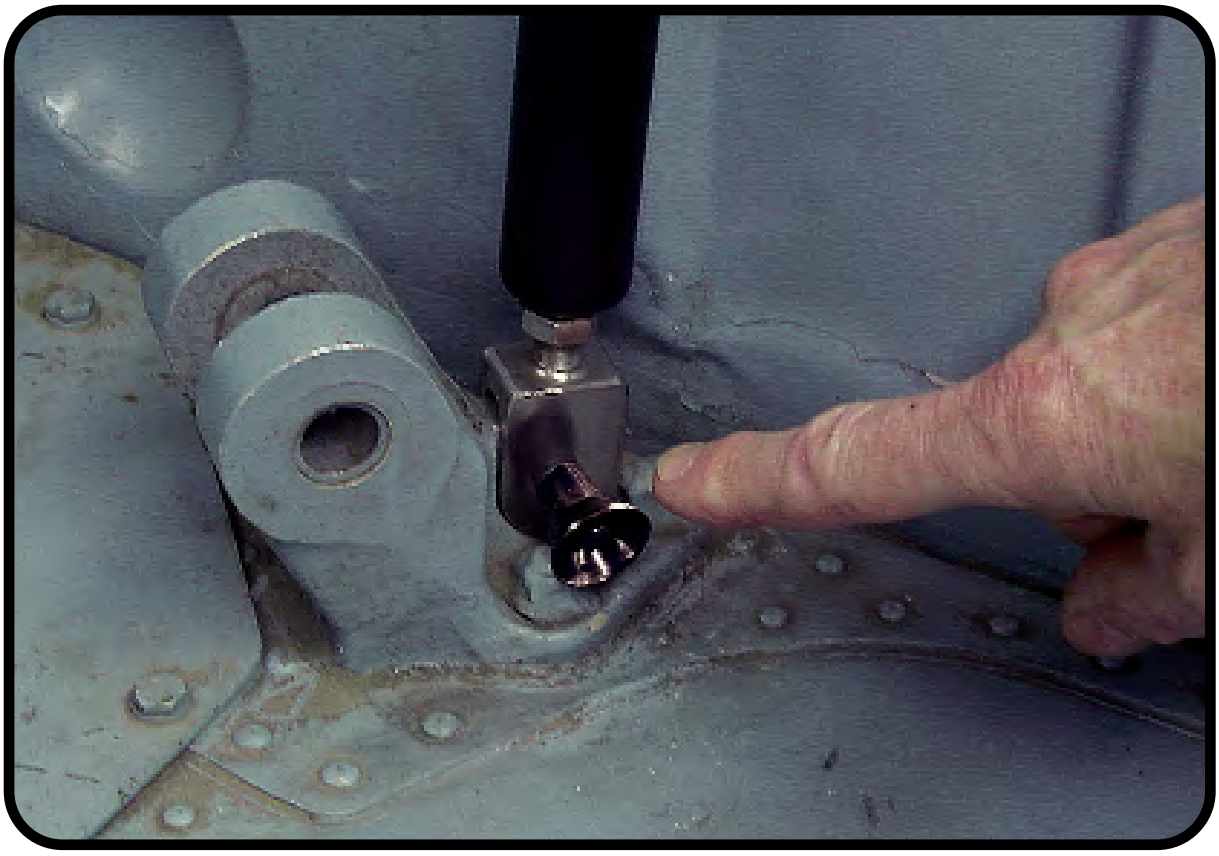
RIGHT SIDE SHOWN

Remove two bolts from transmission cowl latch retainer.
Install top “Y” bracket & reinstall the two bolts loosely.

RIGHT SIDE SHOWN

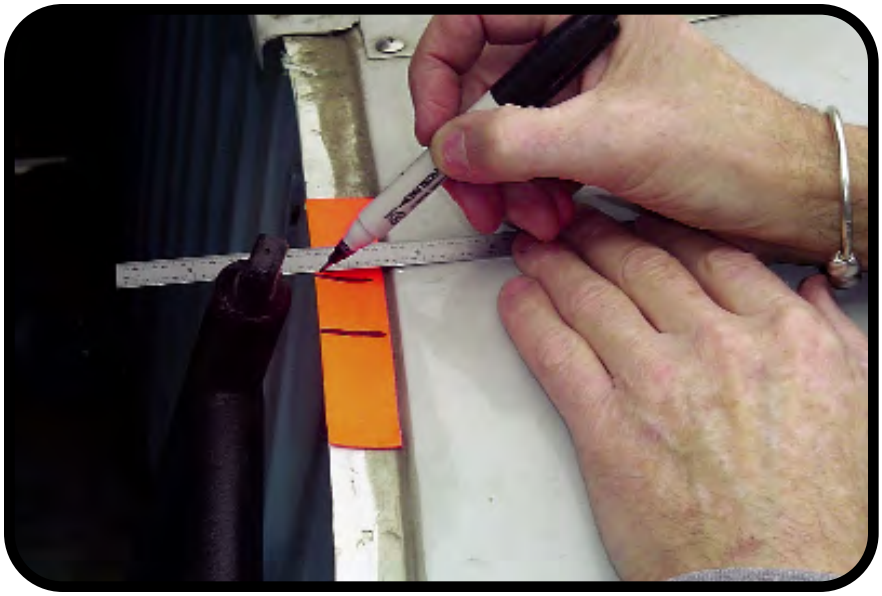
Remove nut from bulkhead bracket, back out bolt & install top “Y” bracket

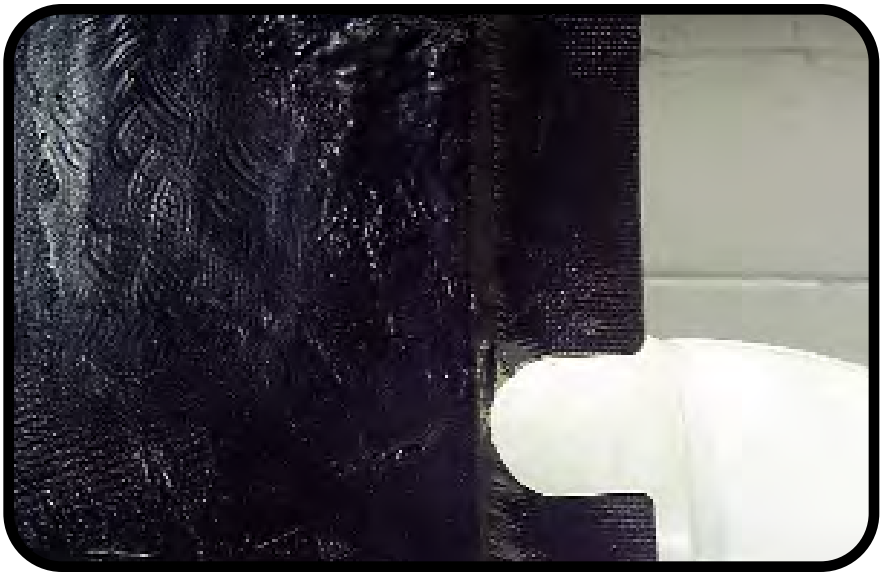
RIGHT SIDE SHOWN

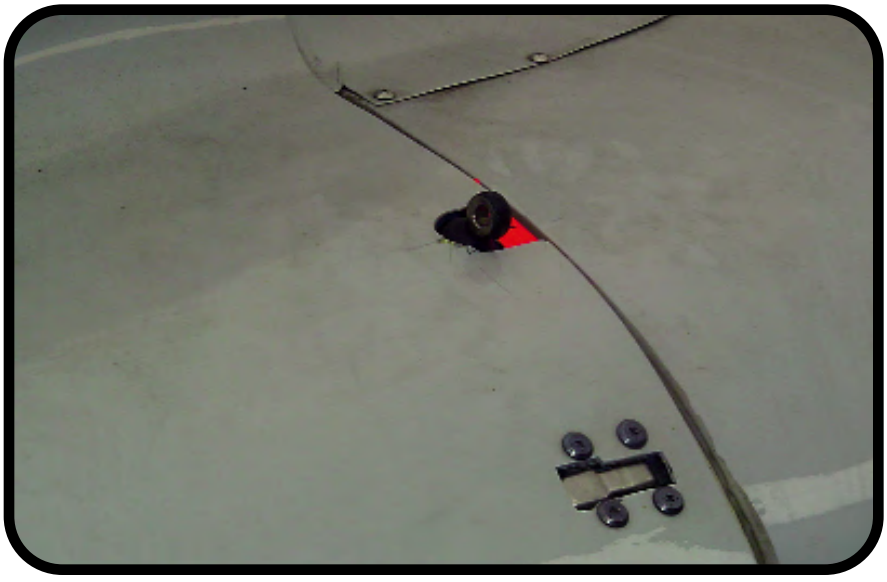


Install clevis on transmission mount with supplied bolt.
Now you may tighten all three points

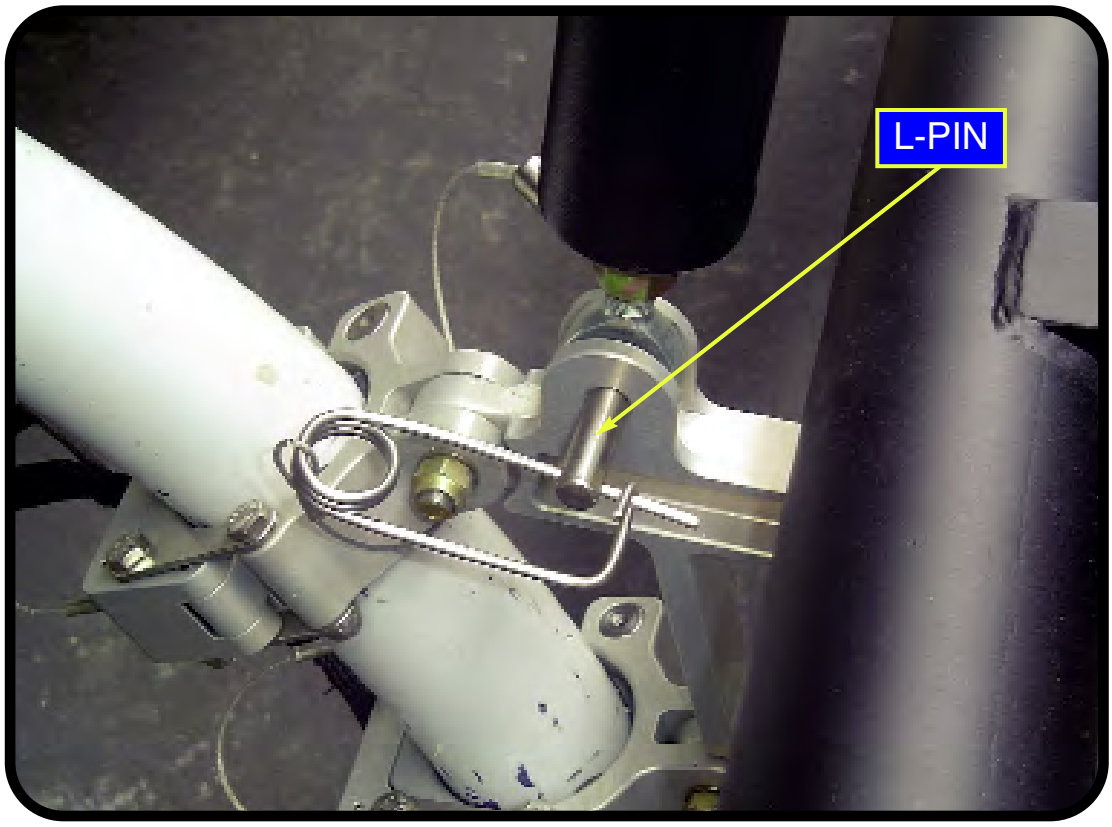
RIGHT SIDE SHOWN



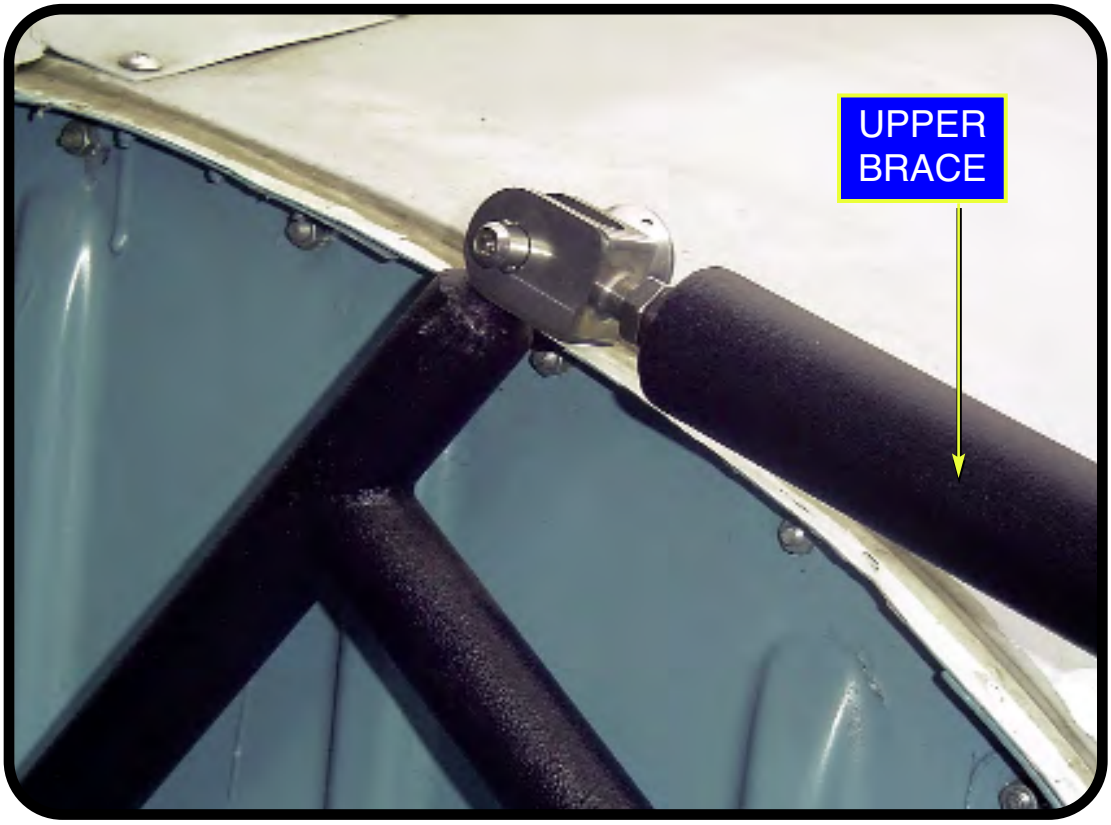




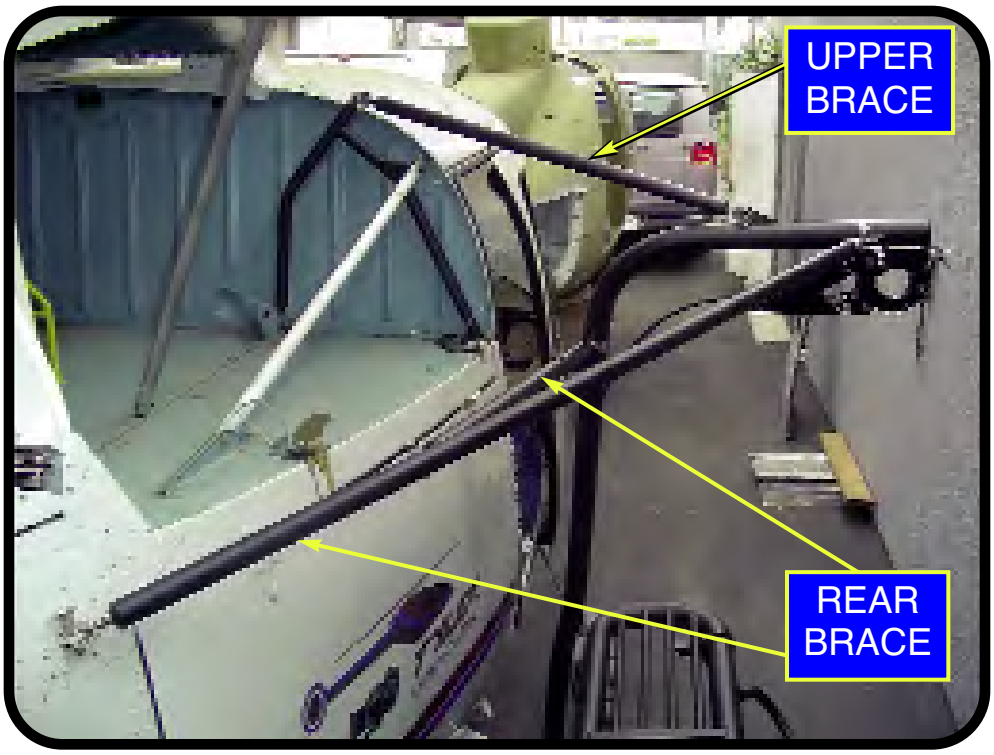
Mark as shown & notch engine cowl for top “Y” brace



FAST ROPE ARM
Bottom of arm attaches to TSOP front skid gear clamp with L-pin



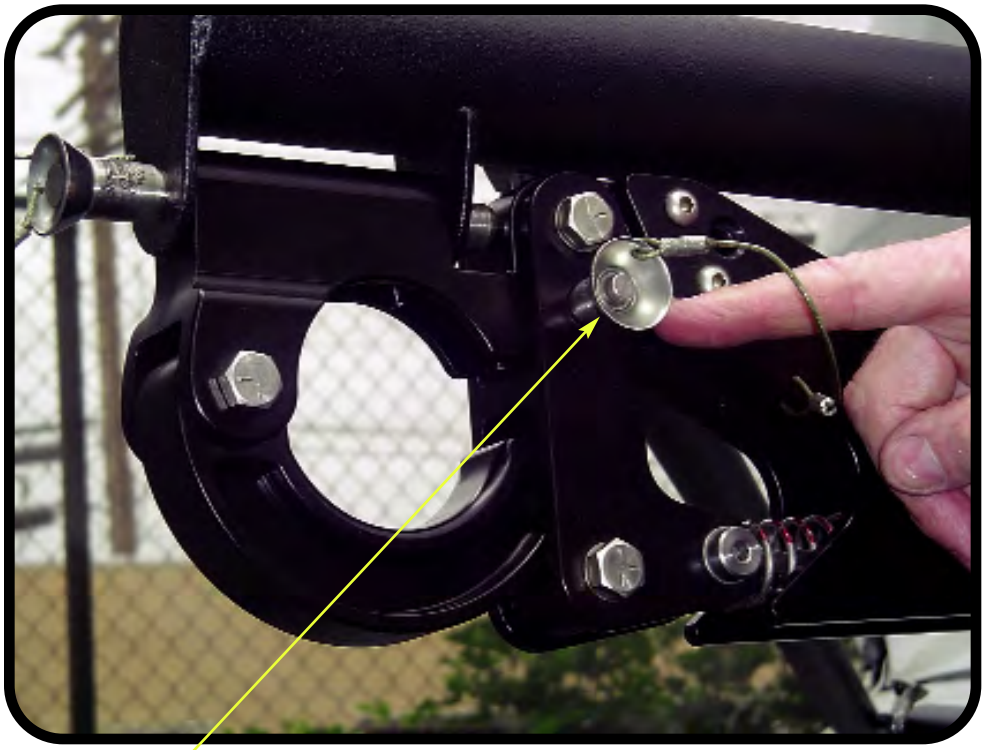
Install upper brace from top “Y” bracket to top tab on arm with pip pins.



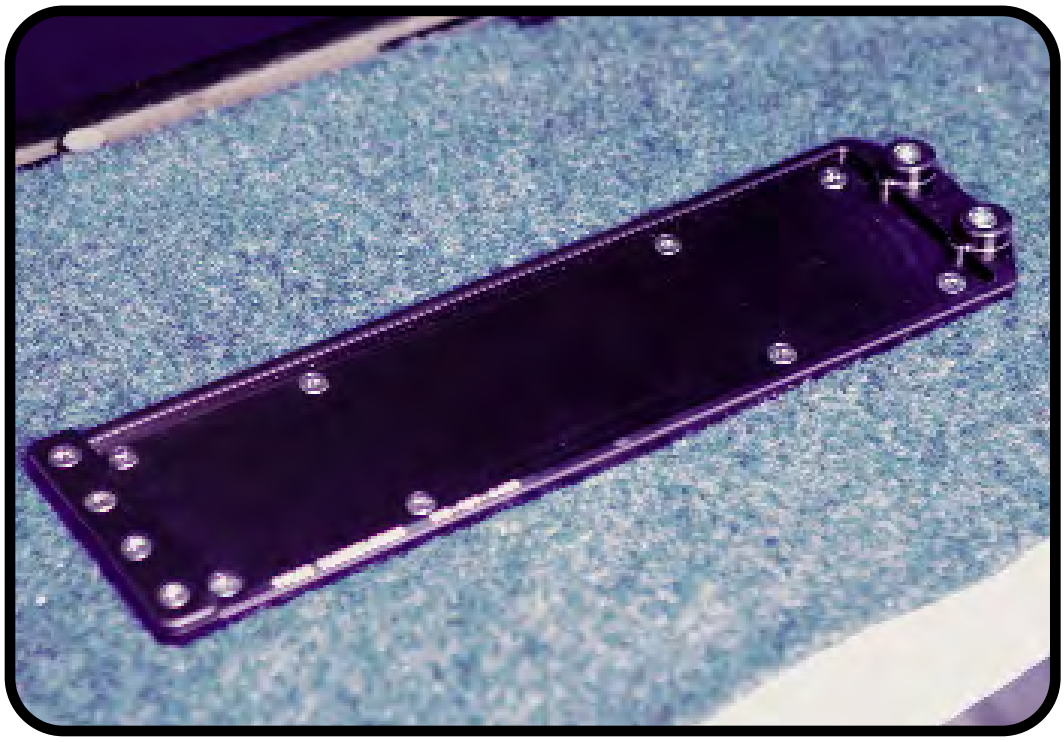
Install two rear braces as shown with pip pins

RIGHT SIDE SHOWN

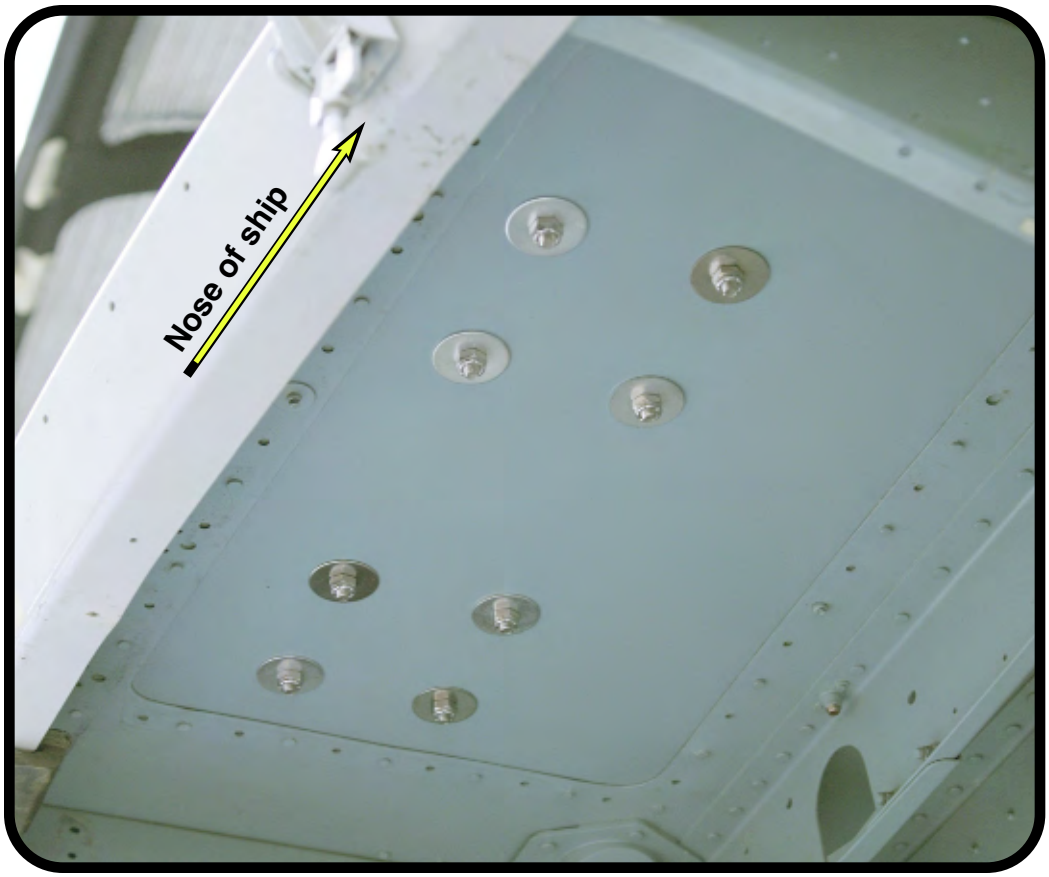
Large pip pin holds hook assembly onto arm



Pip pin location to Lock Hook Release

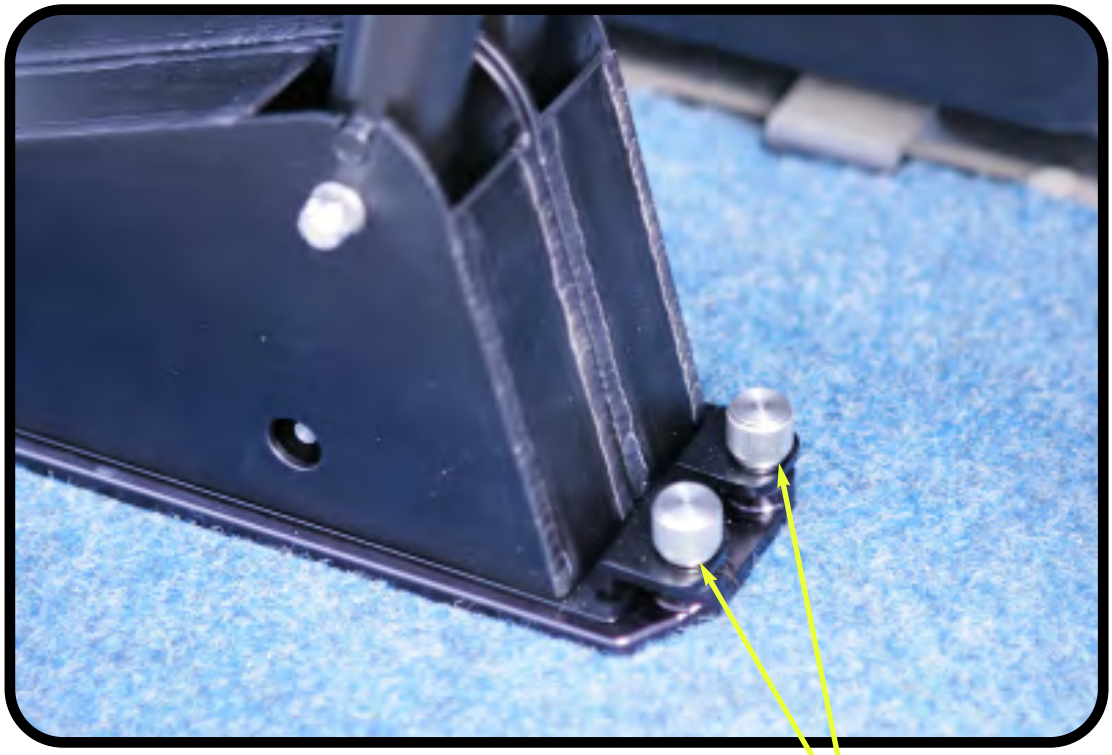


Mounting Plate for Release Handle



Mounting Plate Bottem View

Hook Release Handle Left & Right sides



Hook Release Handle Lock down knobs

Hook Release Handle Left side

Hook Release Handle Right side

SECTION 2 (Alternate Method)

Fast Rope Assembly to Skid Gear Installation

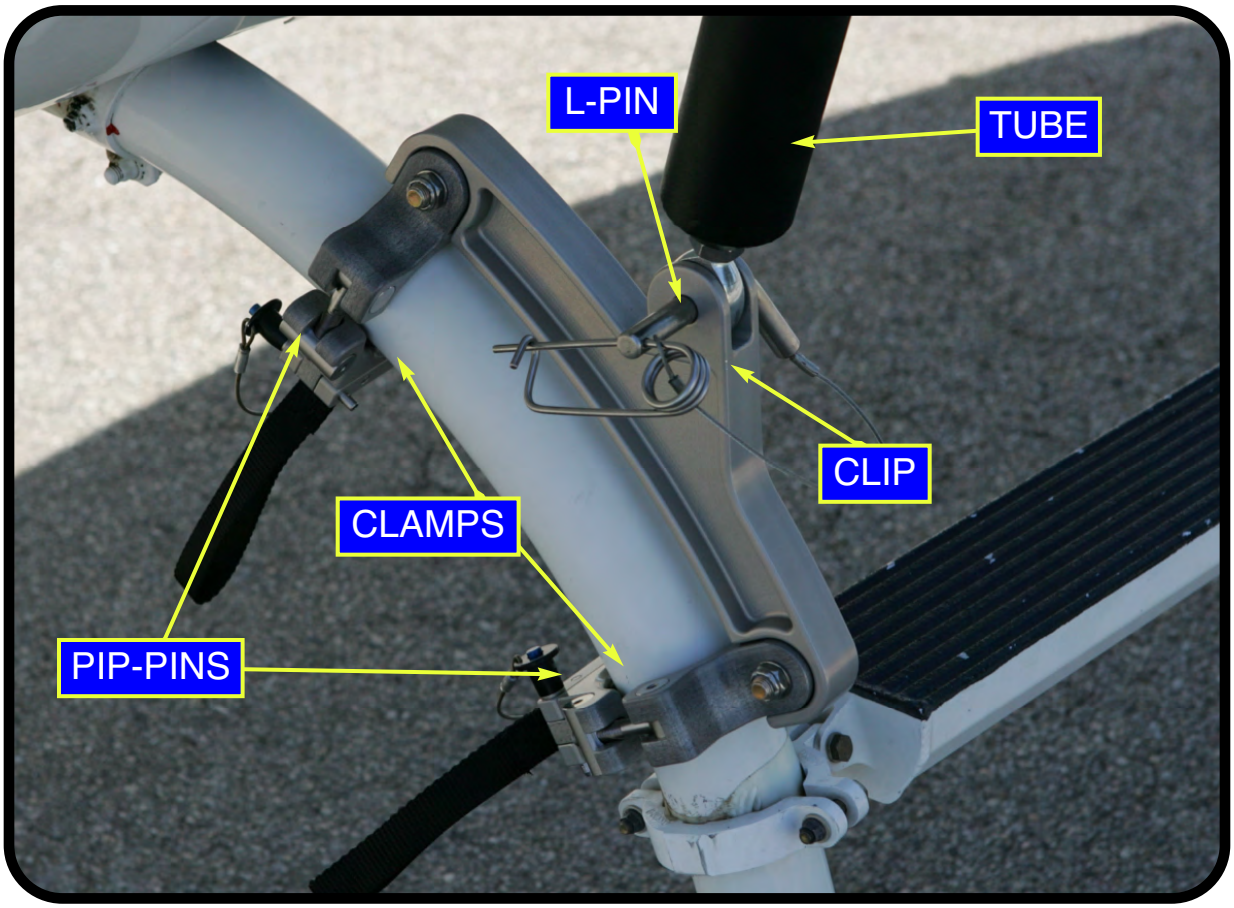
RIGHT SIDE SHOWN

Note:
A-Frame Brace installation the same as pages 4-8

FAST ROPE ARM

Attach Skid-Gear Clamp as shown, adjusting clamps as needed to get a snug-tighht fit, and secure with Pip-pins.

Then attach the bottom of the Main Fast-Rope support tube to the Skid-Gear Clamp assembly using the L-pin, and secure with the Safety-clip.



RIGHT SIDE SHOWN

FAST ROPE TO SKID GEAR INSTALLED WITH HOOK & RELEASE

Refer to pages 13-16 for hook and release installation

United States Of America

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SR01652LA

This Certificate issued to Tyler Camera Systems
14218 Aetna Street
Van Nuys, California 91401

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 27* *of the Federal Aviation Regulations.*

Original Product Type Certificate Number: *See attached FAA Approved Model List (AML) No. SR01652LA for list of approved rotorcraft models and applicable airworthiness regulations.

Make:

Model:

Description of Type Design Change: Installation of External Attach Frame in accordance with FAA Approved Tyler Camera Systems Master Drawing List No. LU-001, Revision A, dated July 2, 2004, and a copy of FAA Approved Rotorcraft Flight Manual Supplement No. LU-RFM-001, Revision N/C, dated October 28, 2004, or later FAA Approved Revisions.

Limitations and Conditions: Approval of this change in type design applies to the rotorcraft models listed on AML No. SR01652LA only. This approval should not be extended to rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that rotorcraft. (Continued on Page 3).

This certificate and the supporting data, which is the basis for approval, shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: August 15, 2003

Date reissued:

Date of issuance: November 3, 2004

Date amended: March 16, 2018

By direction of the Administrator

(Signature)

Manager, Technical and Administrative
Support Section
Los Angeles ACO Branch
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

United States Of America

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SR01652LA

Limitations and Conditions (Continued)

The provisions of the Supplemental Type Certificate are applicable only to those rotorcraft which are listed on the attached FAA Approved Model List of Airbus Helicopter models.

This external attach frame is approved for a maximum payload weight of not more than 360 pounds per hook. 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 rotorcraft.

The external attach frame may be used in conjunction with Tyler Cargo Rack Systems STC No. SR01449LA.

A copy of this Certificate and FAA Approved Model List (AML) No. SR01652LA, dated November 3, 2004, or later FAA Approved Revision, must be maintained as part of the permanent records for the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

- END -

FAA APPROVED MODEL LIST (AML) NO. SR01652LA
Tyler Camera Systems
INSTALLATION OF EXTERNAL ATTACH FRAME

ISSUE DATE : November 3, 3004

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	MASTER DWG. LIST		INSTALLATION INSTRUCTIONS		RFM SUPPLEMENT NUMBER/REV. NO. & DATE	AML AMENDMENT DATE
					REPORT NO.	REV. NO. & DATE	REPORT NO.	REV. NO. & DATE	AP206UM02-10	
1	Airbus Helicopters	AS350-C AS350-D AS350-D1 AS350-B AS350-B1 AS350-B2 AS350-B3C AS350-BA	H9EU	FAR 27 and Amendments Listed on TCDS H9EU	LU-001	REV. A 6/24/04	INSTLU-001	REV. N/C 6/24/04	Rev. N/C 10/28/04	3/16/2018
2	Airbus Helicopters	*AS355E* AS355F AS365F1 AS355F2 AS355N	H11EU	Far 27 AND AMENDMENTS LISTED ON TCDS H11EU	LU-001	REV. A 6/24/04	INSTLU-001	REV. N/C 6/24/04	Rev. N/C 10/28/04	3/16/2018

FAA APPROVED: _____ DATE: 3/16/2018
MANAGER, TECHNICAL & ADMINISTRATIVE SUPPORT SECTION
LOS ANGELES ACO BRANCH

Transport Canada
Transports Canada

1100-9700 Jasper Avenue
Edmonton, Alberta T5J 4E6

Your file Votre reference

Our file Notre reference
C-10-0273

April 15, 2010

Tyler Camera Systems
14218 Aetna Street
Van Nuys, California
United States of America, 91401

ATTENTION: GEORGE WOOD

Dear Sirs:

SUBJECT: ACCEPTANCE OF FOREIGN STC SR01652LA – INSTALLATION OF EXTERNAL ATTACH FRAME – EUROCOPTER FRANCE AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N– ISSUED TO TYLER CAMERA SYSTEMS

This letter is in response to your Facsimile dated March 23, 2010, requesting Transport Canada approval of the subject STC on the above noted model helicopter.

In accordance with our current policy associated with the review of foreign STCs, some STCs applicable to certain categories of aircraft may be accepted solely on the basis of their foreign certification, and do not require the issue of a corresponding certificate by Transport Canada. The subject STC falls within these criteria.

This STC will be entered in the national index of STCs that have been reviewed and accepted by Transport Canada for installation on Canadian-registered aeronautical products.

This letter confirms formal acceptance of the referenced STC by Transport Canada.

Yours truly,

D.S. Austen
Senior Engineer, Aircraft Certification
Prairie and Northern Region
Phone: 780-495-5226
Facs: 780-495-7963

cc: Manager, Airframe Branch
Los Angeles Aircraft Certification Office
Federal Aviation Administration

Canada

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: Frank J. Hoerman

Acting
Manager, Flight Test Branch, ANM-160L
Federal Aviation Administration
Los Angeles Aircraft Certification Office
Transport Airplane Directorate

FAA DATE: OCT. 28, 2004

LOG OF PAGES

Rev No.	Pg No	Date	Description of Change	FAA Approved
N/C	TL i 1-7	28 Oct 2004	Initial Issue	Frank J Hoerman acting Mgr, Flight Test Branch ANM-160L, FAA, Los Angeles ACO, Transport Airplane Directorate DATE: OCT. 28, 2004

02-06-23	Pg. 6 of 7		correction of typographical error	NT

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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

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

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.

3. SECTION 3 – EMERGENCY PROCEDURES

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

4. SECTION 4 – NORMAL PROCEDURES

No Change

5. SECTION 5 - PERFORMANCE

5.1 HOVER PERFORMANCE

No Change

5.2 CLIMB PERFORMANCE

No Change

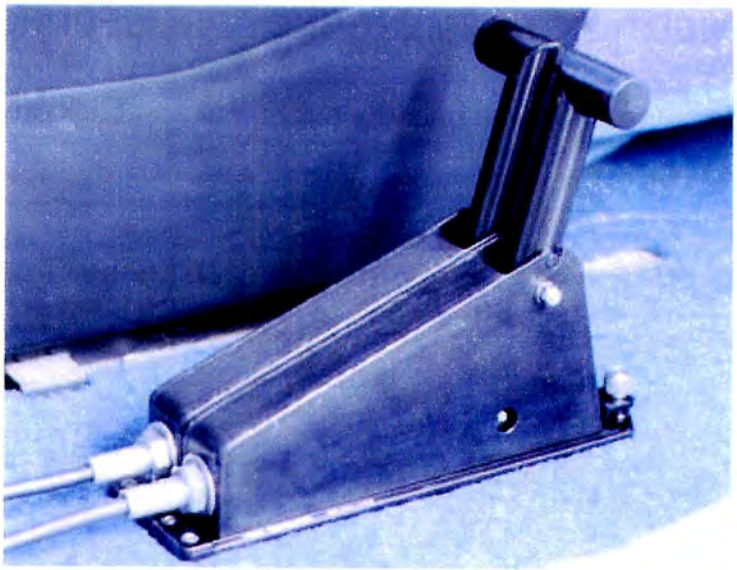

Figure 4 Hook Release Handles

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

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

WEIGHT & BALANCE DATA AND EQUIPMENT LIST **EXTERNAL ATTACH FRAME 350**						
Weight x Arm = Moment						
6/23/98		AIRCRAFT MODEL	REGISTRATION	AIRCRAFT S/N	PILOT	
SAMPLE SHEET		AS 350 B/A	N31621	2130	N/A	
		LONGITUDINAL			LATERAL	
ITEM:		WEIGHT	ARM	MOMENT	ARM	MOMENT
AIRCRAFT EMPTY WEIGHT & C.G.		2885	139.07	401216.95	0.489	1410.765
STARBOARD BAGGAGE (R) MAX 220 LBS		0	125.98	0	21.89	0
PORT BAGGAGE (L) MAX 264 LBS		0	125.98	0	-21.89	0
REAR BAGGAGE MAX 170 LBS		0	181.1	0	0	0
R/H FAST ROPE ASSEMBLY		28	108.78	3045.84	64	1792
L/H FAST ROPE ASSEMBLY		28	108.78	3045.84	-64	-1792
R/H FAST ROPE (ADD ROPE WT)		0	108.78	0	-64	0
L/H FAST ROPE (ADD ROPE WT)		0	108.78	0	-64	0
SUBTOTAL:		2941	138.4932438	407308.63	0.479688881	1410.765
LAP CONTROLLER		10	61.02	610.2	0	0
PILOT (A+) FORWARD RIGHT		200	61.02	12204	14.17	2834
CO-PILOT (A-) FORWARD LEFT		200	61.02	12204	-14.17	-2834
PAX (B+) INSIDE RIGHT REAR		0	99.99	0	8.15	0
PAX (B-) INSIDE LEFT REAR		0	99.99	0	-8.15	0
PAX (C+) OUTSIDE RIGHT REAR		0	99.99	0	24.45	0
PAX (C-) OUTSIDE LEFT REAR		0	99.99	0	-24.45	0
FUEL(143 GAL. MAX.) X 6.8 GAL.	20	136	136.81	18606.16	0	0
EQUIPMENT SUBTOTAL:		546		43624.36		0
TOTAL AIRCRAFT WEIGHT:		3487	129.3183223	450932.99	0.404578434	1410.765
AIRCRAFT MAX GROSS WEIGHT:		4630		LATERAL C.G. LIMITS:		
NEW USEFUL LOAD:		1143				
NEW CENTER OF GRAVITY (LONGITUDINAL)		129.3183223		L/H LIMIT:6.30 IN. (0.16M) MINUS		
NEW CENTER OF GRAVITY (LATERAL)		0.404578434		R/H LIMIT: 3.54 IN. (0.09) PLUS		
		LONGITUDINAL C.G. LIMITS:				
		FORWARD LIMIT:				
		124.8 IN. (3.17M) @ 4000 LBS. (2000 KG)				
		126.5 IN. (3.185M) @ 5000 LBS. (2100 KG)				
		REARWARD LIMIT:				
		137.9 IN. (3.445M) @ 5000LBS. (2100KG)				
		139.3 IN. (3.49M) @ 4000 LBS. (1750 KG)				

WEIGHT & BALANCE DATA AND EQUIPMENT LIST **EXTERNAL ATTACH FRAME 355**						
Weight x Arm = Moment						
6/23/98		AIRCRAFT MODEL	REGISTRATION	AIRCRAFT S/N	PILOT	
SAMPLE SHEET		AS 355 F1	N5802W	5221	N/A	
		LONGITUDINAL			LATERAL	
ITEM:		WEIGHT	ARM	MOMENT	ARM	MOMENT
AIRCRAFT EMPTY WEIGHT & C.G.		3195.89	138.88	443845.2032	0.489	1562.7902
STARBOARD BAGGAGE (R) MAX 220 LBS		0	125.98	0	21.89	0
PORT BAGGAGE (L) MAX 264 LBS		0	125.98	0	-21.89	0
REAR BAGGAGE MAX 170 LBS		0	181.1	0	0	0
R/H FAST ROPE ASSEMBLY		28	108.78	3045.84	64	1792
L/H FAST ROPE ASSEMBLY		28	108.78	3045.84	-64	-1792
R/H FAST ROPE (ADD ROPE WT)		0	108.78	0	-64	0
L/H FAST ROPE (ADD ROPE WT)		0	108.78	0	-64	0
SUBTOTAL:		3251.89	138.3616553	449936.8832	0.480579051	1562.7902
LAP CONTROLLER		0	61.02	0	-14.17	0
PILOT (A+) FORWARD RIGHT		180	61.02	10983.6	14.17	2550.6
CO-PILOT (A-) FORWARD LEFT		180	61.02	10983.6	-14.17	-2550.6
PAX (B+) INSIDE RIGHT REAR		0	99.99	0	8.15	0
PAX (B-) INSIDE LEFT REAR		0	99.99	0	-8.15	0
PAX (C+) OUTSIDE RIGHT REAR		0	99.99	0	24.45	0
PAX (C-) OUTSIDE LEFT REAR		0	99.99	0	-24.45	0
FUEL(194.6 GAL. MAX.) X 6.8 (FOR. 1) GAL.	80	544	127.55	69387.2	0	0
FUEL(194.6 GAL. MAX.) X 6.8 (aft 2) GAL.	80	544	151.55	82443.2		
EQUIPMENT SUBTOTAL:		1448		173797.6		0
TOTAL AIRCRAFT WEIGHT:		4699.89	132.7125705	623734.4832	0.332516338	1562.7902
AIRCRAFT MAX GROSS WEIGHT:		5291		LATERAL C.G. LIMITS:		
NEW USEFUL LOAD:		591.11				
NEW CENTER OF GRAVITY (LONGITUDINAL)		132.7125705		L/H LIMIT:6.30 IN. (0.16M) MINUS		
NEW CENTER OF GRAVITY (LATERAL)		0.332516338		R/H LIMIT: 3.54 IN. (0.09) PLUS		
		LONGITUDINAL C.G. LIMITS:				
		FORWARD LIMIT:				
		124.8 IN. (3.17M) @ 4000 LBS. (2000 KG)				
		126.5 IN. (3.185M) @ 5000 LBS. (2100 KG)				
		REARWARD LIMIT:				
		137.9 IN. (3.445M) @ 5000LBS. (2100KG)				
		139.3 IN. (3.49M) @ 4000 LBS. (1750 KG)				

WEIGHT & BALANCE DATA AND EQUIPMENT LIST **STAND ALONE EXTERNAL FRAME 350**						
Weight x Arm = Moment						
6/23/98		AIRCRAFT MODEL	REGISTRATION	AIRCRAFT S/N	PILOT	
SAMPLE SHEET		AS 350 B/A	N31621	2130	N/A	
		LONGITUDINAL			LATERAL	
ITEM:		WEIGHT	ARM	MOMENT	ARM	MOMENT
AIRCRAFT EMPTY WEIGHT & C.G.		2885	139.07	401216.95	0.489	1410.765
STARBOARD BAGGAGE (R) MAX 220 LBS		0	125.98	0	21.89	0
PORT BAGGAGE (L) MAX 264 LBS		0	125.98	0	-21.89	0
REAR BAGGAGE MAX 170 LBS		0	181.1	0	0	0
R/H FAST ROPE ASSEMBLY		28	91	2548	61	1708
L/H FAST ROPE ASSEMBLY		28	91	2548	-61	-1708
R/H FAST ROPE (ADD ROPE WT)		0	91	0	-61	0
L/H FAST ROPE (ADD ROPE WT)		0	91	0	-61	0
SUBTOTAL:		2941	138.1546923	406312.95	0.479688881	1410.765
LAP CONTROLLER		10	61.02	610.2	0	0
PILOT (A+) FORWARD RIGHT		200	61.02	12204	14.17	2834
CO-PILOT (A-) FORWARD LEFT		200	61.02	12204	-14.17	-2834
PAX (B+) INSIDE RIGHT REAR		0	99.99	0	8.15	0
PAX (B-) INSIDE LEFT REAR		0	99.99	0	-8.15	0
PAX (C+) OUTSIDE RIGHT REAR		0	99.99	0	24.45	0
PAX (C-) OUTSIDE LEFT REAR		0	99.99	0	-24.45	0
FUEL(143 GAL. MAX.) X 6.8 GAL.	20	136	136.81	18606.16	0	0
EQUIPMENT SUBTOTAL:		546		43624.36		0
TOTAL AIRCRAFT WEIGHT:		3487	129.0327818	449937.31	0.404578434	1410.765
AIRCRAFT MAX GROSS WEIGHT:		4630		LATERAL C.G. LIMITS:		
NEW USEFUL LOAD:		1143				
NEW CENTER OF GRAVITY (LONGITUDINAL)		129.0327818		L/H LIMIT:6.30 IN. (0.16M) MINUS		
NEW CENTER OF GRAVITY (LATERAL)		0.404578434		R/H LIMIT: 3.54 IN. (0.09) PLUS		
		LONGITUDINAL C.G. LIMITS:				
		FORWARD LIMIT:				
		124.8 IN. (3.17M) @ 4000 LBS. (2000 KG)				
		126.5 IN. (3.185M) @ 5000 LBS. (2100 KG)				
		REARWARD LIMIT:				
		137.9 IN. (3.445M) @ 5000LBS. (2100KG)				
		139.3 IN. (3.49M) @ 4000 LBS. (1750 KG)				

WEIGHT & BALANCE DATA AND EQUIPMENT LIST **STAND ALONE EXTERNAL FRAME 355**						
Weight x Arm = Moment						
6/23/98		AIRCRAFT MODEL	REGISTRATION	AIRCRAFT S/N	PILOT	
SAMPLE SHEET		AS 355 F1	N5802W	5221	N/A	
		LONGITUDINAL			LATERAL	
ITEM:		WEIGHT	ARM	MOMENT	ARM	MOMENT
AIRCRAFT EMPTY WEIGHT & C.G.		3195.89	138.88	443845.2032	0.489	1562.7902
STARBOARD BAGGAGE (R) MAX 220 LBS		0	125.98	0	21.89	0
PORT BAGGAGE (L) MAX 264 LBS		0	125.98	0	-21.89	0
REAR BAGGAGE MAX 170 LBS		0	181.1	0	0	0
R/H FAST ROPE ASSEMBLY		28	91	2548	61	1708
L/H FAST ROPE ASSEMBLY		28	91	2548	-61	-1708
R/H FAST ROPE (ADD ROPE WT)		0	91	0	61	0
L/H FAST ROPE (ADD ROPE WT)		0	91	0	-61	0
SUBTOTAL:		3251.89	138.0554703	448941.2032	0.480579051	1562.7902
LAP CONTROLLER		0	61.02	0	-14.17	0
PILOT (A+) FORWARD RIGHT		180	61.02	10983.6	14.17	2550.6
CO-PILOT (A-) FORWARD LEFT		180	61.02	10983.6	-14.17	-2550.6
PAX (B+) INSIDE RIGHT REAR		0	99.99	0	8.15	0
PAX (B-) INSIDE LEFT REAR		0	99.99	0	-8.15	0
PAX (C+) OUTSIDE RIGHT REAR		0	99.99	0	24.45	0
PAX (C-) OUTSIDE LEFT REAR		0	99.99	0	-24.45	0
FUEL(194.6 GAL. MAX.) X 6.8 (FOR. 1) GAL.	80	544	127.55	69387.2	0	0
FUEL(194.6 GAL. MAX.) X 6.8 (aft 2) GAL.	80	544	151.55	82443.2		
EQUIPMENT SUBTOTAL:		1448		173797.6		0
TOTAL AIRCRAFT WEIGHT:		4699.89	132.5007188	622738.8032	0.332516338	1562.7902
AIRCRAFT MAX GROSS WEIGHT:		5291		LATERAL C.G. LIMITS:		
NEW USEFUL LOAD:		591.11				
NEW CENTER OF GRAVITY (LONGITUDINAL)		132.5007188		L/H LIMIT:6.30 IN. (0.16M) MINUS		
NEW CENTER OF GRAVITY (LATERAL)		0.332516338		R/H LIMIT: 3.54 IN. (0.09) PLUS		
		LONGITUDINAL C.G. LIMITS:				
		FORWARD LIMIT:				
		124.8 IN. (3.17M) @ 4000 LBS. (2000 KG)				
		126.5 IN. (3.185M) @ 5000 LBS. (2100 KG)				
		REARWARD LIMIT:				
		137.9 IN. (3.445M) @ 5000LBS. (2100KG)				
		139.3 IN. (3.49M) @ 4000 LBS. (1750 KG)				