



AERONAUTICAL ACCESSORIES, INC.

P.O. BOX 3689

BRISTOL, TENNESSEE 37625-3689 U.S.A.

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INSTALLATION INSTRUCTIONS

FOR

CYCLIC SUPPORT SAFETY COVER KIT

P/N 427-927-001

ON

BELL 407 & 427 MODEL HELICOPTERS

Report Number AA-95097

Revision F

September 19, 2003

ECCN
9E991

LOG OF REVISIONS

Rev.	Date	Description	Effected Pages
-	9/22/95	Original Release.	All
A	10/25/96	Added Log of Revisions. Added P/N 099-030-121 screw and deleted P/N 8-32 screw.	All 3&4
B	3/4/98	Added FAA approval statement.	3
C	10/15/98	Added 427 to model effectivity.	All
D	7/28/99	Revised kit and assembly P/N.	1,3,& 4
E	12/12/00	Revised steps 1, 2, 3, & 6. Revised Spacer P/N.	3 3,4
F	9/19/03	Revised Snap Stud P/N from BS-10379	3 3,4

These instructions provide the information necessary to install the **CYCLIC SUPPORT SAFETY COVER KIT** (427-927-001) on Bell 407 & 427 model helicopters. These installation instructions are FAA approved under STC No. SH244WE and SR02077AT.

1. Disconnect the electrical connector. Remove pin and disengage nut in order to remove the co-pilot cyclic stick. Slide cyclic stick out of the boot and retain.
2. Remove the two top and the two bottom screws which retain the cyclic stick boot.
3. Install the four Screws (099-030-121) provided through the Snap Studs (BS10379-3A) and into the cyclic boot retainer.

NOTE

If aircraft is equipped with carpet, the spacers (NAS43DD3-16FC) should be utilized behind Snap Studs.

4. The **CYCLIC SUPPORT SAFETY COVER ASSEMBLY** (427-927-101) may now be snapped into place.
5. Revise the equipment list.
6. Weight and balance:

P/N 427-927-001 CYCLIC SUPPORT SAFETY COVER KIT

WEIGHT: .3 Pounds

STATION: 61.0 (407)
143.0(427)

LATERAL ARM: -11.0 (407)
-12.6 (427)

This change is considered negligible and does not necessitate a change in the aircraft weight and balance records.

**INSTALLATION INSTRUCTIONS
CYCLIC SUPPORT SAFETY COVER****PARTS LIST**

P/N 427-927-001 KIT

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
____ 1	427-927-101	Cyclic Support Safety Cover Assembly
____ 4	099-030-121	Screw
____ 4	BS10379-3A	Snap Stud
____ 4	NAS43DD3-16FC	Spacer

Confirm Inventory Prior To Installation

Packed by: _____ / / _____

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SR02077AT

This certificate issued to

Bell Helicopter Textron, Inc.
441 Industrial Park Road
Piney Flats, TN 37686

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 : R00001RC

Make : Bell Helicopter Textron Canada

Model : 427

Description of Type Design Change:

Manufacture of Cyclic Support Safety Cover in accordance with Aeronautical Accessories, Inc. Drawing List Report KR-174, Revision H, dated October 15, 1998, or later FAA approved revisions, and installation per Aeronautical Accessories, Inc. Report AA-95097, Revision C, dated October 15, 1998, or later FAA approved revisions.

Limitations and Conditions:

The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

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 : October 23, 1998

Date reissued : April 15, 2011

Date of issuance : February 10, 2000

Date amended :



By direction of the Administrator

(Signature)

James A. Richmond, Acting Manager
Rotorcraft Certification Office,
Southwest Region

(Title)

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of the Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to (Name of transferee) _____

(Address of transferee) _____
(Number and street)

(City, State, and ZIP code)

from (Name of grantor) (Print or type) _____

(Address of grantor) _____
(Number & street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor (In ink): _____

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number SH244WE

This certificate issued to

Bell Helicopter Textron, Inc.
441 Industrial Park Road
Piney Flats, TN 37686

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 6 of the Civil Air Regulations.

Original Product -- Type Certificate Number : H2SW

Make : Bell Helicopter Textron Canada Limited

Model : 206A, 206B, 206L, 206L-1, 206L-3, 206L-4,
407

Description of Type Design Change: Installation and fabrication of cyclic support safety cover, in accordance with Aeronautical Accessories, Inc., Report KR-174, dated January 8, 1982, or later FAA approved revision.

Limitations and Conditions: The installer must determine whether this design change is compatible with previously approved modifications. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission. Following initial installation of the mounting hardware (in accordance with FAR 43, Para. 43.7), the pilot is authorized to install and remove the safety cover itself.

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 : July 9, 1979

Date reissued : May 11, 1981,
February 1, 2011

Date of issuance : October 9, 1979

Date amended : March 26, 1982,
June 9, 1982, October 5, 1992,
March 19, 1996



By direction of the Administrator

John Hardie
(Signature)

James A. Richmond, Acting Manager
Rotorcraft Certification Office
Southwest Region

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____
(Number and street)

(City, State, and ZIP code)

from *(Name of grantor)* *(Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____

DEPARTMENT OF TRANSPORT

Supplemental Type Approval

Number: SH96-50

This approval is issued to:

Aeronautical Accessories, Inc.
Tri-County Industrial Park
Piney Flats, Tennessee
37686

Issue No.: 1

Approval Date: May 13, 1996

Issue Date: May 13, 1996

Responsible Region:

Headquarters

Aircraft/Engine Type or Model:

Bell 206A, 206B, 206L, 206L-1, 206L-3, 206L-4, 407

Canadian Type Approval or Equivalent:

H-92

Description of Type Design Change:

Installation and fabrication of cyclic support safety cover in accordance with FAA STC SH244WE.

Installation/Operating Data,
Required Equipment
and Limitations:

Installation and fabrication of cyclic support safety cover is to be done in accordance with Aeronautical Accessories, Inc. Report KR-174, dated January 8, 1982 or later approved revision.

Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.



P. R. Davies

Airworthiness Branch Ottawa
For Minister of Transport



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Aeronautical Accessories, Inc.
P.O. Box 3689
Bristol, Tennessee, 37625-3689
UNITED STATES OF AMERICA

Number: SH01-19

Issue No.: 1

Approval Date: March 6, 2001

Issue Date: March 6, 2001

Responsible Office:

Quebec

Aircraft/Engine Type or Model:

BELL 427

Canadian Type Certificate or Equivalent:

H-103

Description of Type Design Change:

Installation of Cyclic Support Safety Cover in
accordance with FAA STC SR02077AT

**Installation/Operating Data,
Required Equipment and Limitations:**

Manufacture of Cyclic Support Safety Cover in accordance with Aeronautical Accessories Inc. report number KR-174, at Revision I, dated December 29, 1999, or later FAA approved revision.

Installation of Cyclic Support Safety Cover Kit, P/N 427-927-001, will be done in accordance with Aeronautical Accessories Inc. report number AA-95097, at Revision D, dated July 28, 1999, or later FAA approved revision.

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Luize-Mihaela Avrigeanu
Senior Engineer - Aircraft Certification
For Minister of Transport

Canada

austro CONTROL

Aeronautical Accessories Inc.
Att.: Mr. Robert A. Shepard

P.O. Box 3689
Bristol, Tennessee 37625-3689
USA

Unser Zeichen	Ihr Zeichen	Bearbeiter	Tel.DW	Fax DW	Wien, am
FL 112-1/26-99	-	W. Liebwein	-5513	-5516	29. Oktober 1999

Subject: AAI STC's No.: SH3582SW, SH244WE and SH2373SO

Reverence: Your application letter dated 04 January 1997

Dear Mr. Shepard,

Based on the review of the documents received with the above mentioned STC's attached to the Aeronautical Accessories, Inc. letter dated 04 January 1997 and provided information with Aeronautical Accessories, Inc. letter dated 10 February 1998, AUSTRO CONTROL would like to inform you that according our national regulation „§36 ZLLV/99“ the Supplemental Type Certificates SH3582SW(restricted in accordance to Aeronautical Accessories Report AA-87018 or Report AA-87019 and AA-87022), SH244WE and SH2373SO are acceptable for AUSTRO CONTROL.

The referenced STC's are accepted for the following Models:
Bell 206A, B, L and L-3,
Type Acceptance Certificate DF 007 ACG.

The effectivity has to be restricted to the above mentioned Model due to the fact that other Models are not validated by ACG.

The STC Kits can only be installed if a JAR Form One or equivalent was issued.

On Austrian registered helicopters each STC has to be installed by an Repair Station approved in accordance to § 53 Abs. 2 ZLLV 1999 (JAR 145 approved organisation). Before installation the compatibility of each STC with previously installed equipment must be determined by the installer.

According to our regulation it is required that all information for continued airworthiness (see ICAO Annex 8, including publications, all design changes and service difficulties) will be provided on a free of charge basis to ACG.

With regard to Continued Airworthiness ACG has to be informed about any failure, malfunction and defects which has resulted in or may result in an unsafe condition. Until compliance with 27.1529 for STC's SH244WE and SH2373SO can not be shown, damages on the parts can not be repaired and damaged parts has to be replaced.

AUSTRO CONTROL Österreichische
Gesellschaft für Zertifikatierung mbH
Schulergasse 11
A-1030 Wien
Tel.: 43.1.7979870
Fax: 43.1.79798 0W

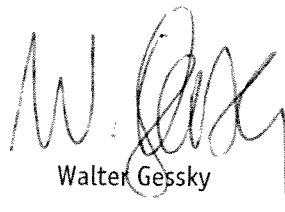
Stb. Wien, Firmengruppe FA 100000
Firmenbuchnummer: Handelsgericht Wien
UID-Nummer: AT 137249-08
DyS: 044777
Bank: Verbindung, OFSK, GLZ AG 300
Kto Nr 90.009.507

The approval is valid until the referenced STC's No SH3582SW(restricted in accordance to Aeronautical Accessories Report AA-87018 or Report AA-87019 and Report AA-87022), SH244WE and SH2373SO will be revoked, surrendered or suspended.

Please note that you will receive an invoice covering our expenses for subject validation per separate mail.

On behalf of AUSTRO CONTROL GmbH

With best regards



Walter Gessky



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2008S02-10
(Number)

Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,
(This certificate issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica" dated 19 December 1986)

é conferido ao (à): Aeronautical Accessories, Inc.
(is granted to)
P.O. Box 3689
Bristol, Tennessee 37625-368
USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)
especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.
(specified hereon, met the applicable airworthiness requirements)

Produto Original - Número do Certificado de Tipo : 9603 (ANAC)
(Original Product - Type Certificate No.)

Fabricante: Bell
(Manufacturer)

Modelo (s): 407
(Model(s))

DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO: (Description of Type Design Change)

Installation of Cyclic Support Safety Cover in accordance with Aeronautical Accessories, Inc.,
Drawing List, Report No. KR-174, Rev. L, dated 15 Apr. 2005, or later approved revision.

This CHST validates in Brazil the STC # SH244WE, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES: (Limitations and Conditions)

See continuation sheet for applicable data.

DATAS: (Dates of)

Do Requerimento: 20 Aug. 2007
(Application)

Da emissão: 26 Feb. 2008
(Issue)

Da reemissão:
(Reissue)

CLÁUDIO PASSOS SIMÃO
Gerente Geral, Certificação de Produtos Aeronáuticos
(Manager, Aeronautical Products Certification)

SOLANGE PAIVA VIEIRA
Diretora-Presidente
(Director-President)

NOTA:
(Note)

- a) Este Certificado e os dados técnicos com base nos quais ele foi emitido são válidos até que sejam cancelados, suspensos, revogados ou um prazo limite seja estabelecido pela Agência Nacional de Aviação Civil.
(This Certificate and the supporting technical data used for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Agência Nacional de Aviação Civil.)
- b) No caso de transferência de propriedade deste Certificado, o transferente deve preencher o quadro "Endosso de Transferência", e o adquirente deve enviar este Certificado à Gerência Geral de Certificação de Produtos Aeronáuticos para que seja reemitido em seu nome.
(In case of transfer of the property of this Certificate, the grantor should fill the blanks of "Transfer Endorsement" and the transferee must remit this Certificate to the Gerência Geral de Certificação de Produtos Aeronáuticos to permit reissuance of the Certificate in his name.)

ENDOSSO DE TRANSFERÊNCIA
(Transfer Endorsement)

Transfiro a propriedade deste Certificado de Homologação Suplementar de Tipo para:
(I transfer the property of this Supplemental Type Certificate to)

ADQUIRENTE
(Transferee)

Nome:
(Name)

Rua:
(Street)

CEP: Cidade: Estado: País:
(Zip) (City) (State) (Country)

TRANSFERENTE
(Grantor)

Nome:
(Name)

Rua:
(Street)

CEP: Cidade: Estado: País:
(Zip) (City) (State) (Country)

Data de Transferência:
(Date of Transfer)

Assinatura do Transferente:
(Signature of the Grantor)

Nome:
(Name)

Cargo:
(Function)



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

Folha de Continuação ao
(Continuation Certificate)

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2008S02-10
(Number)

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions)

- I. The approval of this type design change should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer 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.
- II. 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.
- III. A copy of this Certificate shall be maintained as part of the permanent records of the modified aircraft.

-----END-----

Aug 18 05 01:59p

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P.16
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中国民用航空总局

GENERAL ADMINISTRATION OF CIVIL AVIATION OF CHINA

补 证

VALIDATION OF SUPPLEMENTAL TYPE CERTIFICATE

编号/NO. VSTC155

本证颁发给/This Certificate is issued to

Aeronautical Accessories, Inc.

适用机型/Applicable Aircraft Models

Bell 206A, 206B, 206L, 206L-1, 206L-3, 206L-4,
407

叙述/Description:

Installation and fabrication of cyclic support safety cover, in
accordance with Aeronautical Accessories, Inc. Report KR-174,
dated January 8, 1982 or later FAA approved revision.

使用限制/Restriction:

See the "Limitation and Conditions" of SH244WE (issued on March
19, 1996)

经中国民用航空总局审查确认, 上述民用航空产品的设计更改符合中国民用航空规章的有关规定, 中国民
用航空总局批准 — FAA — 颁发的第 SH244WE 号补充型号合格证给予
认可。

This is to certify that design change of above civil aeronautical product meets applicable China Civil Aviation
Regulations. General Administration of Civil Aviation of China validates the Supplemental Type Certificate No
SH244WE, issued by FAA.

局长授权:

For the Minister of CAAC:

签字/Signature Zhou Kaixuan

职务/Title Deputy Director General

部门/Department CAAC-AAD

日期/Date 8/11/2005

CAAC-156(01/2000)

RECEIVED TIME 18.AUG. 14:29

PRINT TIME 18.AUG. 14:35

DIRECTION GÉNÉRALE DE L'AVIATION CIVILE



**SERVICE
DE LA FORMATION AERONAUTIQUE
ET DU CONTROLE TECHNIQUE**

DIVISION AERONEFS

BUREAU NAVIGABILITE DES HELICOPTERES

**FEDERAL AVIATION
ADMINISTRATION
Southwest Region
Rotorcraft Certification Directorate
ASW-100 ROTORCRAFT STANDARDS
2601 Meacham Boulevard
FORT WORTH
TEXAS 76137-4298
USA**

O/REF: DGAC 2000/0770 - SFACT/N-HE

Attn.: Mr Mark SCHILLING

Affaire suivie par (Followed by): Denis Tranchant

Tel: (33) (1) 58.09.41.16

Fax: (33) (1) 58.09.43.48

E-mail address: TRANCHANT_Denis@sfact.dgac.fr

Subject: BELL Model 407
fitted with Aeronautical Accessories devices.
DGAC's approvals

Dear Sir,

With respect to the Bell Model 407, I am pleased to inform you that on 04 February 2000, DGAC have granted approval of the following STCs to Aeronautical Accessories Inc.,

STC	Description	FMS
SH1322SO	407 Flitestep	
SH1990SO	407 Door Openers	
SH2243SO	407 Folding Maint. Step	
SR01040AT	407 Sliding Door	FMS(AA95-079)
SR01074AT	407RM Windows	
SR01336AT	407 Rappelling Fixture	
SR01061AT	407 Windows/Windshield	
SR01339AT	407 Interior Trim	
SR01556AT	407 Air Deflector	
SH1147SO	407 Bagg. Floor Protector	
SH3289SO	407 Cab. Floor Protector	
SH2373SO	407 Coll. Safety Cover	
SH244WE	Cyc. Safety Cover	
SH1227WE	407 Spacemaker	
SR0169AT	407 Skid Tubes	
SH1366SO	407 Step/Handles	
SH01489AT	407 Fuel Caps	
SR00513AT	407 T/R Pedal Lockout	
SR01296AI	407 SX-16 Quick Mount	



These validations are based on FAA's approvals and include the associated Flight Manuals Supplements.

Could you please forward these approvals to the STC holder, along with our congratulations

Yours faithfully,

Denis Tranchant
Certification Manager

C.c. - Aeronautical Accessories Inc., Steve Joseph
- GSAC/T Gérard Hammer
- RotorFrance François Gailineau
SAF Lino Ferri

INTERSTATE AVIATION COMMITTEE
AVIATION REGISTER

DATA SHEET

Type Certificate No CT171-BELL407

Issue 07

Helicopter
Model BELL 407

Type Certificate Holder:

Bell Helicopter Textron
A Division of Textron Canada, Ltd.
Mirabel, Quebec
Canada

Courtesy translation of TCDS No CT171-BELL407
In case of any difficulty reference should be made
to original issue in Russian language

This Data Sheet which is the integral part of Type Certificate No CT171-BELL407 defines Type Design and prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Certification Basis, as given in paragraph 17 of this TCDS.

List of effective pages:

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1. Manufacturer	Bell Helicopter Textron A Division of Textron Canada, Ltd. Mirabel, Quebec Canada		
2. Brief Helicopter Description	Light multipurpose helicopter with one turboshaft engine, main and tail rotors.		
3. Engine	One engine Allison Model 250-C47B		
4. Engine TCDS	Performance and operational limitations of the Allison 250-C47B engine model are given in the Type Certificate Data Sheet No CT162AMJ, Issue 01, issued by IAC AR on 10.09.98.		
5. Fuel	Foreign-made fuel grades: Type Jet B, Jet A and Jet A-1 conforming to ASTM-D-1655; JP-4 and JP-5 conforming to MIL-T-5624; JP-8 conforming to MIL-T-83133. For all operations below 4°C ambient temperature, all fuel grades must contain anti-icing additive Philips PFA-55 MB in concentration not less than 0.15% by volume. The following is allowed to use: - CIS made fuel grades: RT and TS-1 (GOST-10227); - Anti-icing additives: "I" fluid (GOST 8313), "I-M" fluid (TU6-10-1458), to be added to the fuel at ambient temperature below 4°C in concentration 0.1 – 0.3% by volume.		
6. Fuel Capacity	483.7 liters (106.4 Imp. Gal), (127.8 U.S. Gal) Usable 10.0 liters (2.21 Imp. Gal), (2.65 U.S. Gal) Unusable		
7. Engine Limits	Speed	Torque Pressure	Output Shaft
	Take-off (5 min)	100% (91.4 psi)	100% (6.317 R.P.M.)
	Maximum Continuous	93.5% (85.5 psi) Measured Gas Temperature	100% (6.317 R.P.M.) Gas. Gen. Speed
	Take-off (5 min)	779°C (1434°F)	105% (53550 R.P.M.)
	Maximum Continuous	727°C (1341°F)	105% (53550 R.P.M.)
Limitations on transient regimes are given in Rotorcraft Flight Manual (see "Type Design")			

8. Transmission Output Power

683 hp (674 UK hp)

9. Main Rotor Limits

Power Off	Power On
Maximum 442 R.P.M. 107%	Maximum 413 R.P.M. 100%
Minimum 351 R.P.M. 85%	Minimum 409 R.P.M. 99%

10. Airspeed Limits

Flight speed limits are given in the Rotorcraft Flight Manual (see "Type Design")

11. Center of Gravity Range

- a) Longitudinal C.G. range:
 Forward Limit (internal loading): linear variation from 302.3 cm (weight up to 2041 kg) to 303.5 cm (weight 2268 kg)
 Aft Limit (Internal Loading): 327.7 cm with weight up to 2268 kg
 Forward Limit (external loading): linear variation from 302.3 cm (weight up to 2041 kg) to 306.1 cm (weight 2724 kg)
 Aft Limit (external loading): linear variation from 327.7 cm (weight up to 2268 kg) to 324.1 cm (weight 2724 kg)
- b) Lateral C.G. Limits (Internal Loading):
 Left: linear variation from 6.3 cm (weight up to 1588 kg) to 3.8 cm (weight 2268 kg)
 Right: linear variation from 7.6 cm (weight up to 1588 kg) to 5.1 cm (weight 2268 kg)
 Lateral C.G. Limits (External Loading):
 Left: linear variation from 6.3 cm (weight up to 1588 kg) to 2.3 cm (weight 2724 kg)
 Right: linear variation from 7.6 cm (weight up to 1588 kg) to 3.5 cm (weight 2724 kg)

Datum is 2.54 cm forward of most forward point of fuselage cabin nose section or 140 cm forward of jack point centerline.

12. Maximum Take-off Weight

2268 kg (Internal Loading)

2724 kg (External Loading)

Helicopters equipped with an external cargo hook may operate to 2724 kg gross weight in accordance with the limits of Transport Canada approved Rotorcraft Flight Manual Supplement BHT-407-FMS-5, Rev.1, Supplemental Cargo Hook P/N 206-706-341 dated September 4, 1998

13. Altitude Limits

Maximum altitude at 2268 kg or less is 20000 фyt (6096 м)

Maximum altitude above 2268 kg is 10000 фyt (3048 м)

14. Minimum Crew

1 pilot

15. Maximum Occupants	7 (includes crew)
16. Maximum Cargo	Refer to Rotorcraft Flight Manual for loading schedule
17. Serial Numbers Eligible	Serial numbers of helicopters which are covered by the IAC AR Type Certificate No CT171-BELL407 AP MAK: 53000 to 53003, 53005 and subsequent
18. Certification Basis	a) Airworthiness Criteria 407.27; 6) Aviation Regulations, Part 36 (AP-36) "Aircraft Noise Type Certification".
19. Type Design	Type Certificate No CT171-BELL407, issued by IAC AR, is applicable to BELL 407 helicopters which type design is defined: a) Basic design defined by Type Certificate No H-92 issued by Transport Canada. b) Model 407 configuration defined by Bell Helicopter Textron top drawing No 407-900-001 c) BELL 407 Operational Documentation: • Rotorcraft Flight Manual BHT-407-FM-IAC AR, approved by Transport Canada on 20 May 1999. • Maintenance Manual BHT-407-MM-1. See Chapter 4 approved by Transport Canada for service lives of components. • Mandatory Service Bulletins d) Type Design modifications in accordance with C.I.S Certification Kit 407-706-021
20. STCs, approved by IAC AR	No SR 01450 LA; No SR 00222 DE; No SR 01040 AT; No SR 00221 DE; No SR 00975 AT; No SR 00790 NY; No SH 1990 SO; No SH 1664 SO; No SH 2373 SO; No SH 244 WE; No SR 01051 AT; No SR 00760 NY; No SR 01411 AT;

No SR 09324 RC-D;
No SR 01074 AT;
No SR 00411 DE;
No SH 1312 SO;
No SH 1322 SO.

21. Special Mandatory Conditions.

21.1. Installed battery capacity must be at least 17 ampere hours to insure fuel transfer pump operation for c.g. control after electrical system failure.

21.2. Oxygen equipment must be installed for passenger transportation above 2400 m or with only crew on board above 3000 m.

21.3. Minimum piloting and navigation equipment for helicopters intended for CIS operation must include:

- basic configuration and navigational equipment, defined by drawing No 407-900-001;
- an Attitude Indicator, Turn and Slip Indicator and a gyroscopic Heading Indicator or equivalent;
- metric altimeter;
- Emergency Locator Transmitter;
- VHF communication radio;
- Aural and Visual "Fire Warning" annunciation and;
- for commercial operations, a Flight Data Recorder.

21.4. Emergency VHF radio together with its operational instruction must be installed on the pilot's cabin door according to drawing No. 407-706-021 or equivalent.

21.5. For flights on the CIS routs helicopter must be equipped with:

- GPS;
- transponder (including at least Mode A and C).

21.6. Flights in CIS airspace are allowed only along the routes with continuous ATC monitoring using RBS mode.

21.7. Near the fill opening there should be a placard with the approved CIS-made fuel grades.

21.8. Placards and inscriptions related to the emergency and rescue equipment must be presented in two languages: English and the language requested by the CIS operator.

21.9. Flights in icing conditions are forbidden.

21.10. Helicopter is not certified for flights over extensive water spaces.

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Original in Russian language signed by
Vyacheslav Komarov
Consultant, Helicopter Branch