



AERONAUTICAL ACCESSORIES, INC.

P.O. BOX 3689

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

TELEPHONE: 423-538-5151

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INSTALLATION INSTRUCTIONS

HIGH SKID GEAR WITH FLITESTEP®

P/N 206-323-428

or

HIGH SKID GEAR

P/N 206-323-413

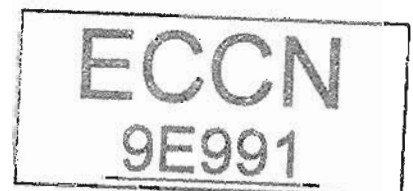
for

Bell 206L, L-1, L-3, L-4 Model Helicopter

Report AA-93083

Revision S

December 8, 2003



LOG OF REVISIONS

Rev.	Date	Description	Effected Pages
-	10/29/93	Original Release	All
A-J	3/25/94- 2/27/97	Various Technical Updates	All
K	2/11/99	Added Log of Revisions Moved Kit Documentation to Hardware Kits	All 10,11
L	12/23/99	Added kit without Flitestep	1,3,11
M	9/5/00	Revised washer callouts	3-6,8
N	1/3/01	Added Kit P/Ns -113/-412/-413 Added Kit P/Ns -128/-427/-428 Removed alternate bolt & strap assy. P/Ns Revised washer P/Ns to match drawing	All All 8 3,5
O	10/29/01	Added NAS6605-12 Bolt to -202 Hardware Kit Deleted NAS6605-17 Bolt from -202 Kit	4,8 4,8
P	12/10/01	Deleted High Skid Gear w/Flitestep® P/Ns: 206-323-127/-128/-427 Deleted High Skid Gear P/Ns: 206-323-112/-113/-412 Revised Figure 1 Added Skid Tube & Crosstube Documentation	All All 5 7
Q	3/27/03	Added Skid Tube P/Ns: 206-323-301/-302 Revised Figure 1 Added Figure 2 & resequenced	4,8 5 6
R	5/27/03	Revised Figure 3	7
S	12/8/03	Added NOTE for omission of washers	4

These instructions contain the necessary information to install the AERONAUTICAL ACCESSORIES, INC. **HIGH SKID GEAR w/FLITESTEP® KIT** 206-323-428, or **HIGH SKID GEAR KIT** 206-323-413 on Bell Helicopter Textron 206L, L-1, L-3, L-4 Model Helicopters. These installation instructions are FAA approved under STC No. SH2804SO.

1. Attach forward and aft crosstubes of landing gear assembly (P/N 206-323-021 & 206-323-022, respectively) to left and right skid tube assemblies (P/N 206-323-211 & 206-323-212, respectively) as follows:
 - a) Insert each end of forward crosstube into the forward saddles of the skid tubes. Align the nine nut plate holes in each end of the crosstube with the matching holes in each saddle. Install nine screws (MS27039-5-15) and washers (NAS1149D0516J). Torque to 100-140 inch-pounds. (See Figure 1)
 - b) As in a) above, install the aft crosstube into the aft skid tube saddles. Align holes and install nine screws (MS27039-5-18) and washers (NAS1149D0516J). Torque to 100-140 inch-pounds. (See Figure 2)
2. Hoist or jack helicopter for removal of existing skid gear assembly, using prescribed procedures.

NOTE

Tag all parts including attaching hardware (unless otherwise noted), removed to gain access to work area. Protect parts from damage until reinstalled.

3. Remove the four crosstube fairings, if applicable.
4. Remove bolts and straps (left & right sides) which secure the forward crosstube to the fuselage; observe order of parts removal.
5. Remove hardware and straps which secure aft crosstube to fuselage; observe order of parts removal, and remove landing gear assembly from helicopter.
6. Install forward crosstube of high landing gear assembly to fuselage with two strap assemblies (206-343-113), and two support installation assemblies (601-029-103) using four washers (NAS1149D0463J), four bolts (NAS6604-13), and washers (NAS1149D0516J) as required to fit strap snug to gear. Do not use more than four washers per bolt. Torque bolts 50-70 inch-pounds. (See Figure 3)

NOTE

Apply dissimilar metals tape to both sides of the washers (AN970-5) prior to installation.

7. Secure aft crosstube to fuselage using existing straps and four bolts (NAS6605-12) with provided washer (AN970-5) between strap and fitting at each bolt location.

NOTE

If strap does not fit snug against crosstube it is permissible to remove the AN970-5 washers between the strap and the fitting.

8. Lower helicopter and disconnect hoist.
9. Insert appropriate Flight Manual Supplement into the Aircraft Flight Manual. Revise aircraft equipment list.
10. Weight and Balance:

Part Number/Description	Weight (LB)	FS (IN)	BL (IN)
206-323-021 Forward Crosstube	17.54	72.13	0.00
206-323-022 Aft Crosstube	23.22	154.31	0.00
206-323-211 Skid Tube L/H	30.69	98.90	-43.13
206-323-212 Skid Tube R/H	30.69	98.90	+43.13
206-323-301 Skid Tube L/H subassembly with Carbide skid shoes (spares)	32.50	98.90	-43.13
206-323-302 Skid Tube R/H subassembly with Carbide skid shoes (spares)	32.50	98.90	+43.13
Total Gear	102.14	107.00	0.00

11. Installation complete.
12. For installation of FLITESTEP® see report AA-91029.

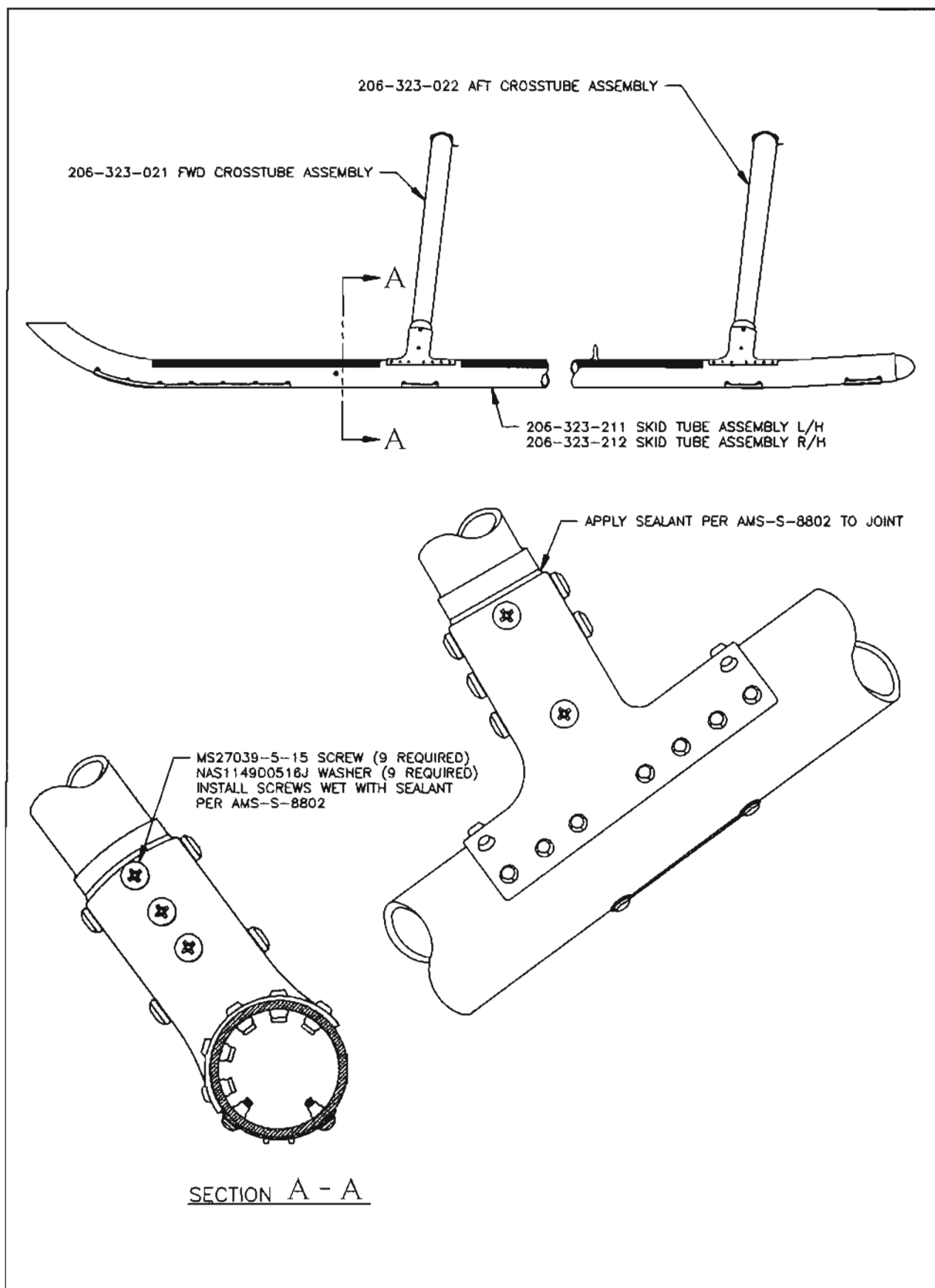


Figure 1

AERONAUTICAL ACCESSORIES, INC.

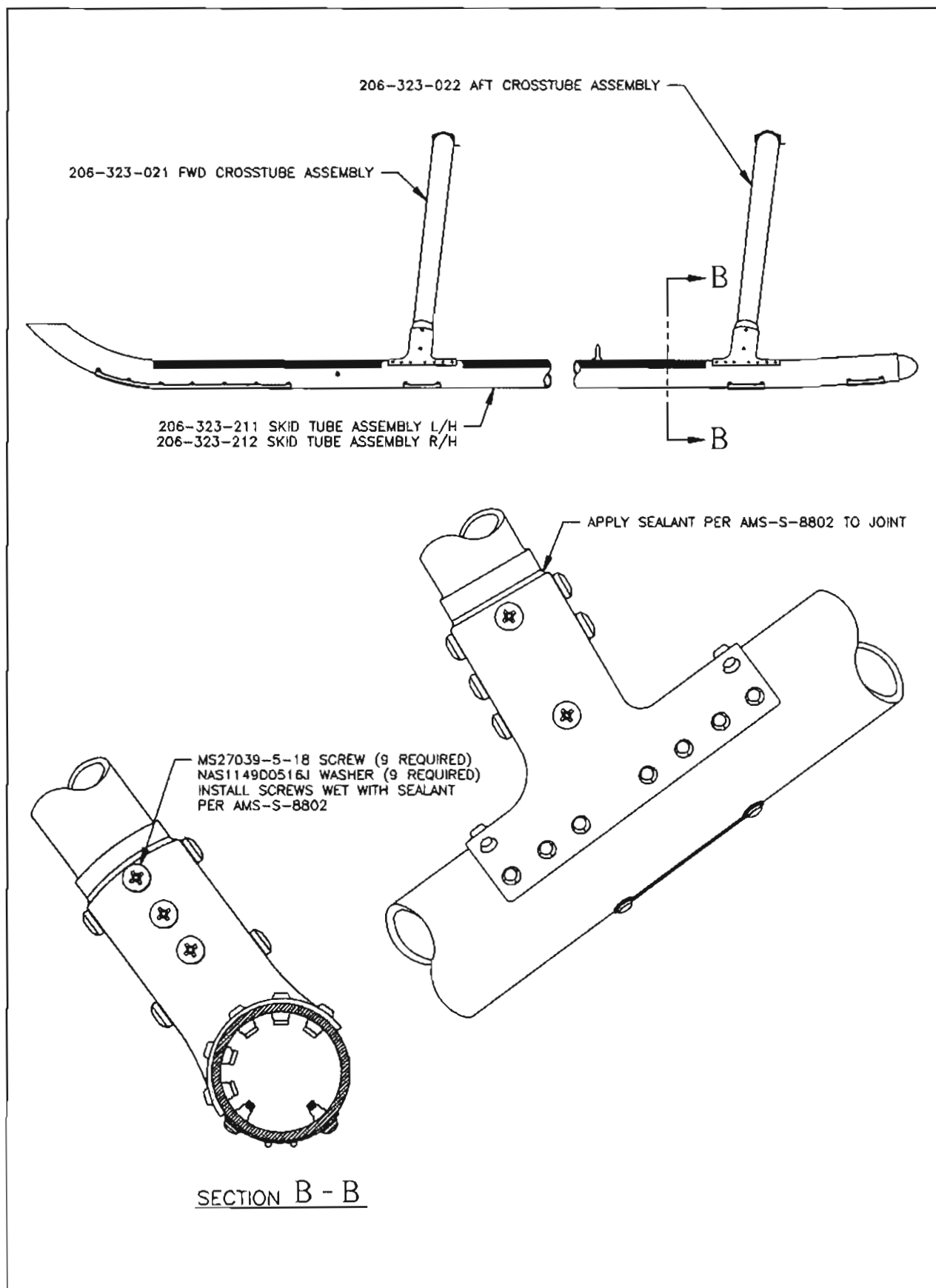


Figure 2

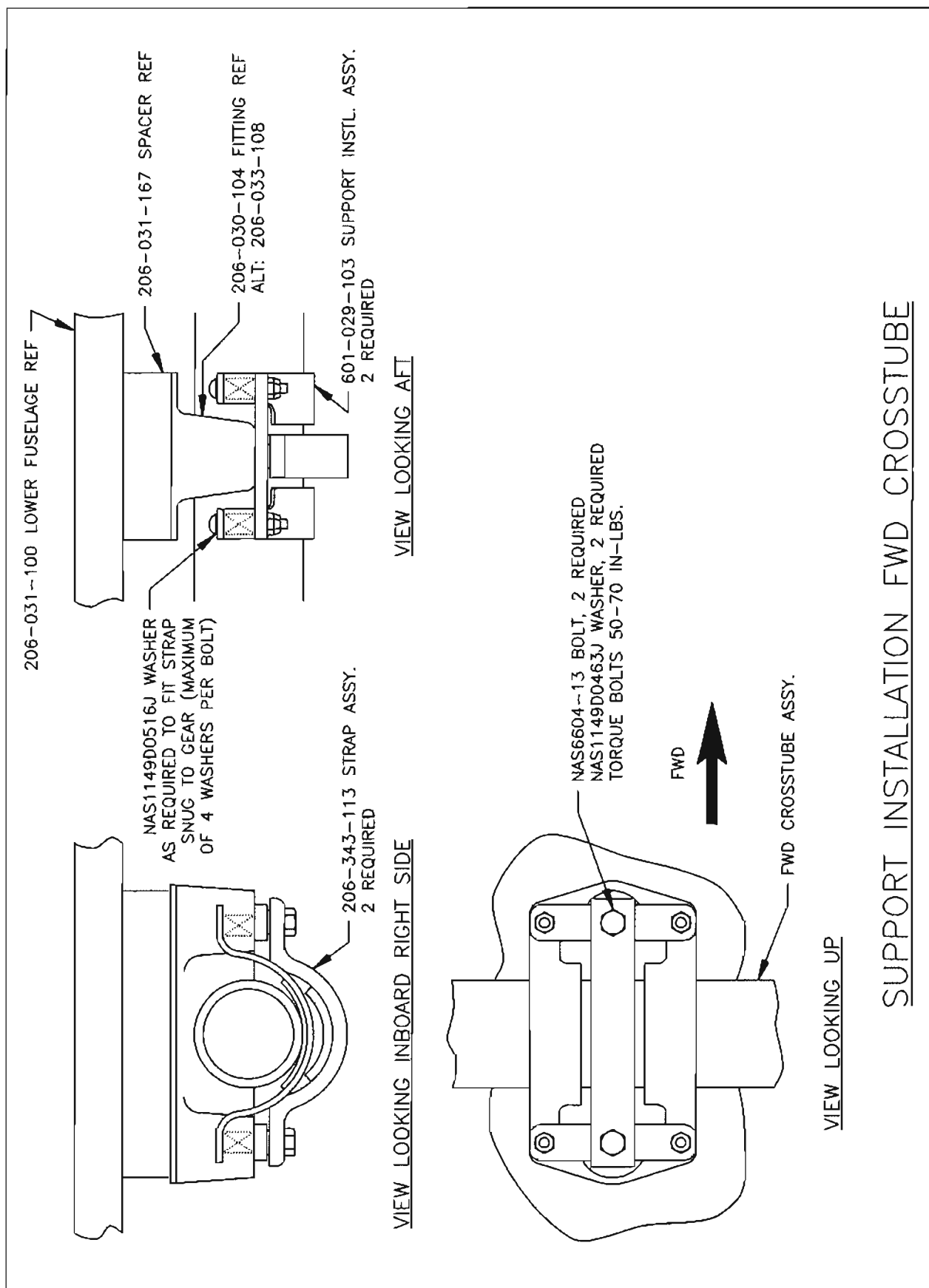


Figure 3

PARTS LIST

HIGH SKID LANDING GEAR KIT
P/N 206-323-413

-413 Qty.	Part Number	Description
1	206-323-021	Crosstube Assembly, Fwd
1	206-323-022	Crosstube Assembly, Aft
1	206-323-211	Skid Tube Assembly, L/H
1	206-323-212	Skid Tube Assembly, R/H
1	206-323-202	Mounting Hardware Kit

PARTS LIST

HIGH SKID LANDING GEAR with FLITESTEP® KIT
P/N 206-323-428

-428 Qty.	Part Number	Description
1	206-323-413	High Skid Gear Assembly
1	206-326-203 Alt: 206-326-202	FLITESTEP® Kit

CROSSTUBE DOCUMENTATION

Qty.	Report Number	Description
1	AA-01149	Instructions for Continued Airworthiness

SKID TUBE DOCUMENTATION

Qty.	Report Number	Description
1	AA-01145	Instructions for Continued Airworthiness

PARTS LIST

Mounting Hardware Kit

-202 Qty.	Part Number	Description
4	AN970-5	Washer
4	NAS1149D0463J Alt: AN960JD416	Washer
4	NAS6604-13	Bolt
4	NAS6605-12	Bolt
2	601-029-103	Support Instl. Assembly
2	206-343-113	Strap Assembly
1	AA-90010	Flight Manual Supplement (Bell 206L)
1	AA-90011	Flight Manual Supplement (Bell 206L-1)
1	AA-90012	Flight Manual Supplement (Bell 206L-3, L-4)

PARTS LIST

SKID TUBE ASSEMBLIES WITH CARBIDE SKID SHOES

Qty.	Part Number	Description
1	206-323-301	Skid Tube Assembly L/H (spares)
1	206-323-302	Skid Tube Assembly R/H (spares)

Confirm inventory prior to installation.

Packed by: _____ Date: _____ / ____ / ____

Supplemental Type Certificate

Number SH2804SO-D

This certificate issued to

Aeronautical Accessories, Inc.
441 Industrial Park Drive
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 and Part 21.29 of the Federal Aviation Regulations:

Original Product--Type Certificate Number: H2SW

Make: Bell Helicopter Textron

Model: 206L, L-1, L-3, L-4

Description of Type Design Change: High Skid Landing Gear in accordance with Aeronautical Accessories, Inc. Drawing List Report AA-90009, Revision A, dated May 23, 1990, and installation per Report AA-90008, No Revision, dated April 11, 1990 or Report AA-90055, No Revision, dated October 29, 1990, or Report AA-93083, No Revision, October 29, 1993 or later FAA/DAS approved revisions.

Limitations and Conditions: The Rotorcraft Flight Manual Supplement, Report No. AA-90010, Revision B, dated April 23, 1998, or AA-90010, Revision B, dated April 23, 1998, or AA-90012, Revision B, dated April 23, 1998 or later FAA/DAS approved revisions and the Instructions for Continued Airworthiness, Aeronautical Accessories, Inc. Report AA-01145, Revision A, dated March 27, 2003, and AA-01149, No Revision, dated September 7, 2001, or later AEG accepted revisions are required. Compatibility of this design change with previously approved modifications must be determined by the installer. 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.

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: March 2, 1990

Date reissued:

Date of issuance: August 1, 1990

Date amended: March 11, 1998; December 30, 1999; June 6, 2003



By Direction of the Administrator

Stephen E. Joseph
(Signature)

Stephen E. Joseph
DAS Administrator,
DAS-750215-SW

(Title)



AIRWORTHINESS APPROVAL NOTE NO: 23214 Issue 12

APPLICANT: CAA Internal Purposes

AIRCRAFT TYPE: Bell 206 Series

REGISTRATION NO: Not Applicable

CONSTRUCTOR'S NO: Not Applicable

Validation of Aeronautical Accessories FAA Bell 206 Series STC Approvals

In accordance with BCAR B2-2 para 7.2.3 procedures, the following Aeronautical Accessories, Inc modifications are approved for use in the Transport Category (Passengers) when installed in accordance with the FAA STC on UK registered Bell/Agusta Bell 206 Series aircraft, as appropriate:

<u>Description</u>	<u>STC</u>	<u>Model</u>
Range Extender	SH2889SW	Bell 206A,B
Longrange Extender	SH1522SO	Bell 206L,L-1
Raingutter	SH1148SO	Bell 206A,B,L,L-1,L-3
Spacemaker	SH227WE	Bell 206A,B,L,L-1,L-3,L-4,407
Maintenance Step	SH1281SO	Bell 206A,B
Folding Maintenance Step	SH2243SO	Bell 206A,B,L,L-1,L-3,L-4,407
Step/Handle	SH1282SO	Bell 206A,B
Step/Handle	SH1366SO	Bell 206L,L-1,L-3,L-4,407
High Skid Gear	SH1392SO	Bell 206A,B
High Skid Gear	SH2804SO	Bell 206L,L-1,L-3,L-4
Low Skid Gear	SH2764SO	Bell 206A,B
Low Skid Gear	SH2941SO	Bell 206L,L-1,L-3,L-4
Flitestop	SH1322SO	Bell 206A,B,L,L-1,L-3,L-4
Baggage Floor Protector	SH1147SO	Bell 206A,B,L,L-1,L-3,L-4,407
Cyclic Cover	SH244WE	Bell 206A,B,L,L-1,L-3,L-4
Collective Safety Cover	SH2373SO	Bell 206A,B,L,L-1,L-3,L-4
Crew Wedge Window	SH1815SO	Bell 206A,B,L,L-1,L-3,L-4
Replacement Windows	SH1664SO	Bell 206A,B,L,L-1,L-3,L-4
Crew Shoulder Harness	SH2073SO	Bell 206A,B,L,L-1,L-3,L-4
Door Openers	SH1990SO	Bell 206A,B,L,L-1,L-3,L-4,407
VRS	SH7882SW	Bell 206A,B
Cabin Floor Protector	SH3289SO	Bell 206A,B,L,L-1,L-3,L-4,407
Crew Vertical Slide Windows	SH2139SO	Bell 206A,B,L,L-1,L-3,L-4,L-4 (Modified)
Replacement Drive Train Seals	SR00539AT	Bell 206A,B,L,L-1,L-3,L-4
Tail Rotor Pedal Lockout	SR00511AT	Bell 206A,B,L,L-1,L-3,L-4
Replacement Interior Trim	SID298SO	Bell 206A,B,L,L-1,L-3
Replacement Door Locks and Locking	SR00095AT	Bell 206A,B,L,L-1,L-3,L-4
Fuel Cap		

APPLICANT
AIRCRAFT PROJECTS DEPARTMENT
FLIGHT MANUALS SECTION
POWERPLANT DEPARTMENT
REGIONAL MANAGER:-

<u>Description</u>	<u>STC</u>	<u>Model</u> (Cons'd)
Lightweight Replacement Nitrogen Reservoir Assembly	SR00175AT	Bell 206A, B, L, L-1, L-3, L-4
Electrical Inflation Valve Retrofit Kit	SR00822AT	Bell 206A, B, L, L-1, L-3
Air Deflector	SR01556AT	Bell 407
Air Deflector	SR01582AT	Bell 206A, B, L, L-1, L-3, L-4
Dual Video Camera System and Monitor	SH2292SO	Bell 206A, B, L, L-1, L-3
Hinged Circuit Breaker Panel	SR00347AT	Bell 206A, B, L, L-1, L-3, L-4

Issue 2 has been raised to correct minor editorial errors.

Issue 3 has been raised to include the Bell 206L4, where applicable.

Issue 4 has been raised to include the Crow Vertical Slide Windows.

Issue 5 has been raised to include the Replacement Drive Train Seals.

Issue 6 has been raised to include the Tail Rotor Pedal Lockout and Bell 206 L-4 applicability to High and Low Skid Gear.

Issue 7 has been raised to include the Replacement Interior Trim

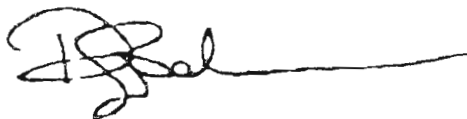
Issue 8 has been raised to include Replacement Door Locks and Locking Fuel Cap

Issue 9 has been raised to include replacement Nitrogen Reservoir and Electrical Inflation Valves for the Bell Emergency Flotation Equipment.

Issue 10 has been raised to include installation of Air Deflection on crew and passenger door windows.

Issue 11 has been raised to include STCs SR01582AT, SH2292SO and SR00347AT.

Issue 12 has been raised to include the Bell 407, where applicable.



P Sparkes

For the Civil Aviation Authority

Date 8 October 1999



REPÚBLICA FEDERATIVA DO BRASIL
COMANDO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL
INSTITUTO DE FOMENTO E COORDENAÇÃO INDUSTRIAL

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2000S03-14
(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

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: H2SW (CTA)

(Original Product - Type Certificate No:)

Fabricante: Bell Helicopter Textron
(Manufacturer:)

Modelo(s): 206L, 206L-1, 206L-3 and 206L-4
(Model(s):)

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

Installation of high skid landing gear, in accordance with Drawing List Report No. AA-90009, Rev. I, dated 23 FEB 1998, or later approved revisions.

This CHST validates in Brazil the STC # SH2804SO, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

See continuation sheet for applicable data.

DATAS:
(Dates of:)

Do Requerimento: 01 JUNE 1998
(Application:)

Da emissão: 31 MAR 2000
(Issue:)

Da reemissão:
(Reissue:)


JOSE LUIZ R. BELDERRAIN - Ten.-Cel.-Eng.
Chefe da Divisão de Homologação Aeronáutica
(Chief, Divisão de Homologação Aeronáutica)


SILOMAR CAVALCANTE GODINHO - Cel.-Av.
Diretor do Instituto de Fomento e Coordenação Industrial
(Director, Instituto de Fomento e Coordenação Industrial)



REPÚBLICA FEDERATIVA DO BRASIL
COMANDO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROSPAIAL
INSTITUTO DE FOMENTO E COORDENAÇÃO INDUSTRIAL

Folha de Continuação ao
(Continuation Sheet to)

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO
(Supplemental Type Certificate)

NÚMERO 2000S03-14
(Number)

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions)

- I. This approval should not be extended to other aircraft 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 aircraft.
- 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. Operation must be performed in accordance with FAA approved Rotorcraft Flight Manual Supplement Report No. AA-90010, Rev. B, dated 23 APR 1998, Report No. AA-90011, Rev. B, dated 23 APR 1998, or Report No. AA-90012, Rev. B, dated 23 APR 1998, or later approved revisions.
- IV. A copy of this Certificate, pertinent Supplement, referred in item III above, and appropriate Installation Instruction shall be maintained as part of the permanent records for the modified aircraft.

-----END-----

Luftfahrt-Bundesamt
I 322/23/92/3034

Braunschweig, den 21. März 1994

Mitteilung über die Ergänzung der Musterzulassung Nr. 0507/3034

Gegenstand der Änderung: Hohes Landewerk

Drehflügler-Baureihe(n): Bell 206L, L-1, 206L-3, 206L-4

Drehflügler-Kennblatt Nr: 3034

Antragsteller: Fa. Aeronautical Accessories, Inc. (U.S.A.)

Der Zulassungsumfang der o.g. Drehflügler-Baureihe(n) wird wie folgt geändert:

Der Einbau eines hohen Landewerkes gemäß FAA-STC. No. SH2804SO in Hubschrauber des Modells Bell 206L, 206L-1, 206L-3 und 206L-4 ist zugelassen.

Definition der Änderung:

- a) Aeronautical Accessories, Inc. Report No. AA-90009 (Drawing List),
Revision D vom 16. September 1991 oder spätere, FAA-anerkannte Revision.
- b) Kit P/N # 206-323-100

Ergänzende Betriebsanweisungen:

- a) Folgende FAA-anerkannten Rotorcraft Flight Manual Supplements:

- Für Bell 206 L: Report # AA-90010.
- Für Bell 206 L-1: Report # AA-90011.
- Für Bell 206 L-3: Report # AA-90012.
- Für Bell 206 L-4: Report # AA-90012.

- b) Installation Instructions for High Skid Gear, Report # AA-90008, Rev. C.

Bezugsquelle für die Betriebsunterlagen:

Fa. Aeronautical Accessories, Inc.
P.O. Box 3689
Bristol, TN 37625
U.S.A.

Diese Mitteilung gilt in Verbindung mit dem Drehflügler-Kennblatt Nr. 3034 in der jeweils gültigen Ausgabe.



U.S. Department
of Transportation
**Federal Aviation
Administration**

Small Airplane Directorate
Atlanta Aircraft Certification Office
Campus Building
1701 Columbia Avenue, Suite 2-160
College Park, Georgia 30337-2748

JUL 2 1997

Mr. Robert Shepard
Aeronautical Accessories, Inc.
P.O. Box 3689
Bristol, TN 37625-3689

Dear Mr. Shepard:

This is in regard to your question about Section 44704 in the Federal Aviation Reauthorization Act. The section states "if the holder of the supplemental type certificate agrees to permit another person to use the certificate to modify an aircraft, aircraft engine, propeller, or appliance, the holder shall provide the other person with written evidence, in a form and manner acceptable to the Administrator, of the agreement." This requirement applies to a Supplemental Type Certificate (STC) holder who allows another person or company to use the data and/or drawings from an STC to construct their own modification or alteration to the aircraft. In this case the STC holder needs to provide that person with written approval allowing them the use of the STC information. This written authorization would usually specify the number of aircraft allowed to be altered using the STC and would probably specify the company or person allowed to perform the alteration, thus preventing unlimited use of the information.

This section of the Act was written to prevent unauthorized use of the property (drawings, reports, etc.) of the STC holder. This statement does not apply to Parts Manufacturing Approval (PMA) parts that were approved using an STC. The holder of the STC and PMA, by selling those PMA parts, is allowing the use of that number of PMA parts. Possession of the PMA'd part is considered the "authorization" of its use and no formal written authorization is required.

Sincerely,

Paul C. Sconyers
Associate Manager, ACE-117A
Atlanta Aircraft Certification Office