



AERONAUTICAL ACCESSORIES, INC.

P.O. BOX 3689

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INSTALLATION INSTRUCTIONS

LONGRANGE EXTENDER®

REFURBISHMENT KIT

P/N 206-284-200

for

BELL 206L and 206L-1

Report AA-96144

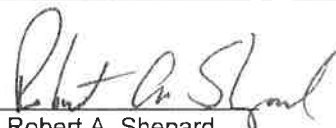
Revision D

July 11, 2000

ECCN 9E991

LOG OF REVISIONS

Rev.	Date	Description	Effected Pages
-	9/20/96	Original Release.	All
A	8/29/97	1. Revised Figure 1. 2. Added parts 206-289-009 & 206-289-010.	3 4
B	2/10/98	1. Revised Index Numbers.	3
C	2/25/98	1. Added 206-289-011 Fuel Qty. Decal.	5
D	7/11/00	1. Revised Washer callout	3,5

Approved by: 

Robert A. Shepard
FAA DERY-510363-CE
(Structures)

These instructions provide the information necessary to install the LONGRANGE EXTENDER® Refurbishment Kit (206-284-200) on Bell 206L and 206L-1 model helicopters. These instructions are FAA approved under STC No. SH1522SO.

1. Review the following item listing. Inspect the original LONGRANGE EXTENDER® parts that are on the listing (Ref. Figure 1). If necessary remove and replace each part with the parts provided.

206-284-110
ILLUSTRATED PARTS BREAKDOWN

Figure 1

Index Number	Part Number	Description	Quantity
-1	206-287-110	LONGRANGE EXTENDER® Assembly	1
-2	206-287-003	Compressible Shim (.060)	1
	206-287-005	Compressible Shim (.090)	1
	206-287-007	Compressible Shim (.120)	1
-3	MS27039-4-16	Screw	8
-4	AN4-10A	Bolt	4
-5	NAS1149D0416J	Washer (AN960JD416L)	12
-6	MS29513-243	O-Ring	1
-8	MS29513-232	O-Ring	1
-9	206-288-006	Lanyard Assembly	1
-10	MS29513-031	O-Ring	1
-11	206-288-017	Sight Gauge Cover	1
-12	AN526C832R7	Screw	8
N/S	206-289-002	Fuel Specification Decal	1
N/S	206-289-003	NO STEP/NO HANDLE Decal	2
N/S	206-289-005	Fuel Quantity Decal	1
N/S	MS29523-1	Clip (Lanyard Assembly)	2

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-1	206-287-110	LONGRANGE EXTENDER® Assembly	1
-2	206-287-003	Compressible Shim (.060)	1
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	206-287-007	Compressible Shim (.120)	1
-3	MS27039-4-16	Screw	8
-4	AN4-10A	Bolt	4
-5	NAS1149D0416J	Washer (AN960JD416L)	12
-6	MS29513-243	O-Ring	1
-8	MS29513-232	O-Ring	1
-9	206-288-006	Lanyard Assembly	1
-10	MS29513-031	O-Ring	1
-11	206-288-017	Sight Gauge Cover	1
-12	AN526C832R7	Screw	8
N/S	206-289-002	Fuel Specification Decal	1
N/S	206-289-003	NO STEP/NO HANDLE Decal	2
N/S	206-289-005	Fuel Quantity Decal	1
N/S	MS29523-1	Clip (Lanyard Assembly)	2

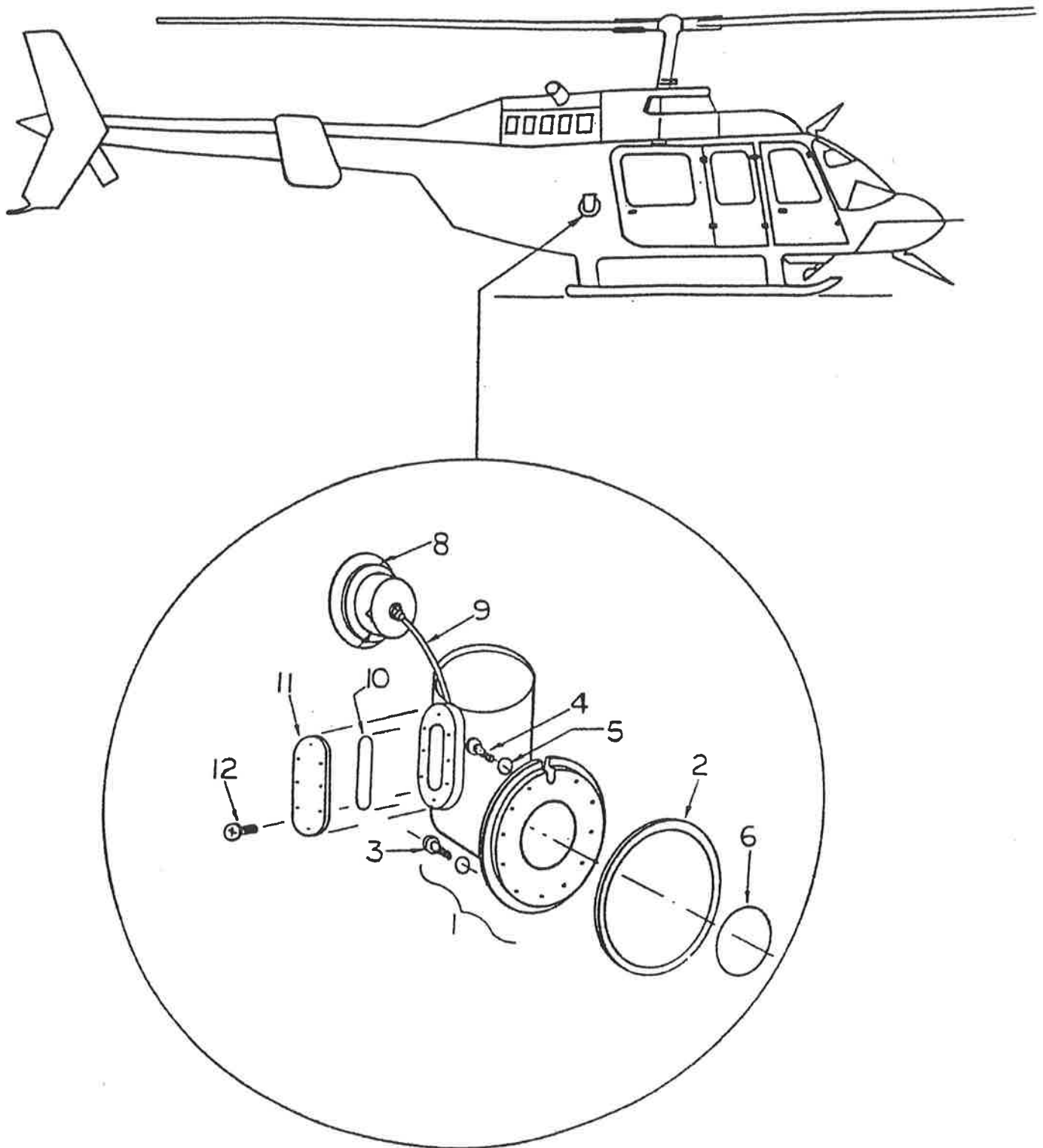


FIGURE 1

AERONAUTICAL ACCESSORIES, INC.

LONGRANGE EXTENDER®
REFURBISHMENT KIT
P/N 206-284-200

-200 QTY	Part Number	Description
1	206-287-003	Compressible Shim (.060)
1	206-287-005	Compressible Shim (.090)
1	206-287-007	Compressible Shim (.120)
8	MS27039-4-16	Screw
4	AN4-10A	Bolt
12	NAS1149D0416J	Washer (Alt.: AN960JD416L)
1	MS29513-243	O-Ring
1	MS29513-232	O-Ring
1	206-288-006	Lanyard Assembly
1	MS29513-031	O-Ring
1	206-288-017	Sight Gauge Cover
8	AN526C832R7	Screw
1	206-289-002	Fuel Specification Decal
2	206-289-003	NO STEP/NO HANDLE Decal
1	206-289-005	Fuel Quantity Decal
1	206-289-011	Fuel Quantity Decal
2	MS29523-1	Clip
1	206-289-009	Fuel Specification Decal
2	206-289-010	NO STEP/NO HANDLE Decal

Confirm Inventory Prior to Installation

Packed by: _____ / /



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

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

Number SH1522SO

This certificate, issued to Aeronautical Accessories, Inc.
P.O. Box 3689
Bristol, Tennessee 37625

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
Model: 206L, 206L-1

Description of Type Design Change: Manufacture of Range Extender in accordance with Aeronautical Accessories, Inc. Drawing List Report No. AA-89006, Revision "A", dated June 22, 1989, or Report KR-285, no revision, dated September 30, 1983, or later FAA approved revisions, and installation per Installation Instructions listed therein.

Limitations and Conditions: FAA approved Helicopter Flight Manual Supplement, dated December 2, 1983, or later FAA approved revision, is a required part of this approval. 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: May 10, 1983

Date received:

Date of issuance: December 2, 1983

Date submitted: October 2, 1998



By direction of the Administrator

Paul C. Sconyers
Paul C. Sconyers (Signature)
Associate Manager, ACE-117A

Atlanta Aircraft Certification Office
(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.

AIRWORTHINESS APPROVAL NOTE NO: 23814 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
Longranger 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,I-4,4N7
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,I-4
Flitestep	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	SR00513AT	Bell 206A,B,L,L-1,L-3,L-4
Replacement Interior Trim	SIB298SO	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 (Cont'd)</u>
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 Crew 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

INSTRUCTIONS SPÉCIALES/SPECIAL INSTRUCTIONS:

Mr. Dearing,

In accordance with Transport Canada Airworthiness Policy Letter No. 38, Issue No. 1 dated August 21, 1989 on the subject of familiarization of FAA STC's incorporated on Bell 206 helicopters that was previously sent to you, it has been determined that the following FAA STC's issued to Aeronautical Accessories, Inc. may be accepted on the basis of their FAA certification and therefore would not normally require a Canadian familiarization:

<u>FAA STC No.</u>	<u>Applicability</u>	<u>Description</u>
SH227WE	Bell 206A, 206B, 206L, 206L-1 & 206L-3 (Normal Category only)	Installation of baggage compartment extension.
SH244WE	Bell 206A, 206B, 206L, 206L-1 & 206L-3	Installation and fabrication of cyclic support safety cover.
SH1312SO	Bell 206A, 206B, 206L, 206L-1 & 206L-3	Installation of the Nightscanner belly mounted searchlight.
SH1322SO	Bell 206A, 206B, 206L, 206L-1 & 206L-3	Installation of an aluminum entrance step on helicopter equipped with high skid gear.
SH1385SO	Bell 206A, 206B, 206L, 206L-1 & 206L-3	Installation of a cargo viewing mirror on Bell helicopters.
SH1392SO	Bell 206A & 206B	Installation of High Skid Type Landing Gear.
SH1522SO	Bell 206L & 206L-1	Installation of Range Extender (EA 891-40).
SH1609SO	Bell 206A & 206B	Installation of a spacer block assembly on helicopters equipped with high skid gear.
SH1813SO	Bell 206A, 206B, 206L, 206L-1 & 206L-3	Installation of passenger bubble window assemblies.
SH1814SO	Bell 206A, 206B, 206L, 206L-1 & 206L-3	Installation of crew bubble window assemblies.