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INSTRUCTIONS

for

CONTINUED AIRWORTHINESS

for

COMPOSITE BAGGAGE DOOR KIT

(P/N 206-502-200)

BAGGAGE DOOR REPLACEMENT HINGE KIT

(P/N 206-502-250)

STC: SH3110SO

FOR

BELL HELICOPTER TEXTRON
MODEL 206A, 206B, 206L, 206L-1, 206L-3 AND 206L-4 HELICOPTERS

Report Number AA-00020

Revision A

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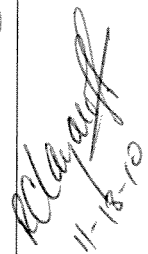
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LOG OF REVISIONS

Date	Revision	Description	Affected Pages	Approved / Date	Accepted / Date
11/17/00	-	Original Release	All	—	—
11/16/10	A	Revised document format, revised Log of Revisions, Table of Contents, List of Tables, List of Figures format	All		
		Revised Section 5 removal and installation instructions; replaced item number callouts with part number references	9 – 10		
		Revised Section 10 Parts Breakdown per drawing 206-502, revision J	12 – 13		
		Combined content of Figures 1 and 2 into (new) Figure 1	14		

LIST OF EFFECTIVE PAGES

All pages contained herein are at latest revision shown in Log of Revisions.

LIST OF EFFECTIVE PAGES

1 – 16

TABLE OF CONTENTS

<u>Identification</u>	<u>Title</u>	<u>Page</u>
1.0	INTRODUCTION.....	6
1.1	DISTRIBUTION.....	6
1.2	REVISION.....	6
2.0	DESCRIPTION.....	6
3.0	MAINTENANCE INSTRUCTIONS	7
3.1	ANNUAL INSPECTION.....	7
3.2	REPAIR.....	8
3.3	CLEANING REQUIREMENTS.....	8
4.0	TROUBLESHOOTING INFORMATION	8
5.0	REMOVAL AND REPLACEMENT INFORMATION	9
5.1	REMOVAL – COMPOSITE BAGGAGE DOOR KIT	9
5.2	INSTALLATION – COMPOSITE BAGGAGE DOOR KIT	10
6.0	STRUCTURAL FASTENER DATA.....	11
7.0	RECOMMENDED OVERHAUL PERIODS.....	11
8.0	AIRWORTHINESS LIMITATIONS.....	11
9.0	WEIGHT AND BALANCE.....	11
10.0	PARTS BREAKDOWN.....	12
	APPENDIX A.....	15

LIST OF TABLES

<u>List of Tables</u>	<u>Title</u>	<u>Page</u>
TABLE 1.	DAMAGE AND REPAIR LIMITS.....	7
TABLE 2.	TROUBLESHOOTING.....	8
TABLE 3.	PARTS BREAKDOWN, 206-502-200 COMPOSITE BAGGAGE DOOR KIT	12
TABLE 4.	PARTS BREAKDOWN, 206-502-201 BAGGAGE DOOR ASSEMBLY	13
TABLE 5.	PARTS BREAKDOWN, 206-502-250 BAGGAGE DOOR REPLACEMENT HINGE KIT	13

LIST OF FIGURES

<u>List of Figures</u>	<u>Title</u>	<u>Page</u>
FIGURE 1.	BAGGAGE DOOR INSTALLATION.....	14

1.0 INTRODUCTION

These instructions contain the information necessary for inspection and maintenance of **AERONAUTICAL ACCESSORIES COMPOSITE BAGGAGE DOOR KIT (P/N 206-502-200)** and **BAGGAGE DOOR REPLACEMENT HINGE KIT (P/N 206-502-250)** installed on Bell Helicopter Textron model 206A, 206B, 206L, 206L-1, 206L-3 and 206L-4 helicopters.

1.1 DISTRIBUTION

These instructions are provided with each Composite Baggage Door / Baggage Door Replacement Hinge Kit. Any airworthiness or flight safety revisions will be immediately made available to all affected Composite Baggage Door / Baggage Door Replacement Hinge Kit owners.

1.2 REVISION

A Log of Revision section is included in these instructions and will be utilized to document all changes. Change recommendations should be submitted to:

Aeronautical Accessories
P.O. Box 3689
Bristol, TN 37625-3689

2.0 DESCRIPTION

The Aeronautical Accessories Composite Baggage Door Kit provides a composite replacement for the existing aluminum baggage doors or composite baggage doors installed on Bell Helicopter Textron model 206A, 206B, 206L, 206L-1, 206L-3 and 206L-4 helicopters. The door kit includes hinges, latches, and all hardware necessary for installation.

The Aeronautical Accessories Baggage Door Replacement Hinge Kit provides replacement hinges for aluminum or composite baggage doors installed on Bell Helicopter Textron model 206A, 206B, 206L, 206L-1, 206L-3 and 206L-4 helicopters. The replacement hinge kit includes hinges and all hardware necessary for installation.

3.0 **MAINTENANCE INSTRUCTIONS**

3.1 **ANNUAL INSPECTION**

The Composite Baggage Door shall receive an annual inspection incorporated into progressive maintenance programs, as appropriate. The inspection shall consist of the following items.

NOTE

Removal of Door from the helicopter is not required for inspection. If any damage is noted during the inspection, refer to Section 3.2, Repair. If the damage limits are exceeded, replace parts as required.

NOTE

The indications of corrosion are 1) corrosion deposits (a white or gray powder on aluminum or rust colored deposits on steel), 2) pits in the aluminum or steel surface, 3) blisters, bulging or flaking of protective coatings.

1. Inspect the door for scratches, nicks, dents, corrosion, and delamination.
2. Inspect attachment hardware for scratches, nicks, dents, corrosion, and security of attachment.
3. Verify "correct" operation of door, i.e., door does not "bind."
4. Ensure door latches are properly positioned on latch tabs on airframe.
5. Inspect all Decals for condition.
6. Utilize the Inspection Record provided in Appendix A to document inspection completion.

TABLE 1. DAMAGE AND REPAIR LIMITS

Component	Maximum Allowable Damage And Repair Limits (Damage and corrosion may be repaired as noted in Section 3.2 Repair, if it does not exceed these limits.)	
	Scratches/Nicks/Dents And Corrosion	Cracks
Composite Door	Minor surface damage allowed No fiber damage or delamination	None
Hinge	To a depth of .010"	None
Latch	To a depth of .010"	None
Clevis (p/o 206-502-250 Kit)	To a depth of .010"	None

3.2 REPAIR

Repair scratches, nicks, dents and corrosion as follows:

1. Lightly polish the affected area using Scotch-Brite pads. Ensure the limits presented in Table 1 are not exceeded. Take care to remove as little of the component protective coatings as possible.
2. For the aluminum components, after corrosion or damage repair: Clean repaired area with isopropyl alcohol, brush Alodine bare aluminum areas per MIL-C-5541 or equivalent, and paint area to match existing finish.
3. For the Steel components, after corrosion or damage repair: Prime with a rust prohibitive primer and paint area to match existing finish.

3.3 CLEANING REQUIREMENTS

Any dirt, sand or debris should be cleaned from the Composite Baggage Door using a mild, non-abrasive soap or cleaner. Wipe surfaces dry with a non-abrasive cloth or paper before cleaning agent evaporates.

4.0 TROUBLESHOOTING INFORMATION

TABLE 2. TROUBLESHOOTING

Problem	Probable Cause	Remedy
Door is loose or vibrates	Fasteners loose or missing	Check hinge & latch fastening hardware for security
	Hinge bolt missing	Replace missing bolt. Check other hinge bolts to ensure they will not vibrate out
Door is hard to open	Baggage Door Assembly requires lubrication	Lubricate Baggage Door Assembly with a light lubricant such as WD-40
	Hinge/Bolt improperly tightened	Adjust Hinge / Bolt installation
	Hinge / Clevis / Bolt damaged	Replace damaged parts
Door does not fit properly	Damaged Hinge / Clevis / Bolt or fasteners	Replace damaged parts
	Seal damaged or missing	Replace damaged seal
Door is warped or delaminated	Excessive heat causing deformation / delamination	Return door assembly to Aeronautical Accessories for repair

5.0 REMOVAL AND REPLACEMENT INFORMATION

Refer to Tables 3 and 4 and Figure 1 for part identification.

5.1 REMOVAL – COMPOSITE BAGGAGE DOOR KIT

See Figure 1.

NOTE

Use care during Composite Door removal to ensure Door does not fall free from aircraft.

1. Open the Composite Baggage Door. If retention strap or door opener is installed on the Composite Baggage Door Assembly, disconnect it from the door per retention strap / door opener manufacturer instructions and save the associated attachment hardware for reinstallation. Close and latch Door.
2. At 206-502-106 Lower Clevis, remove and discard the MS24665-153 Cotter Pin securing the AN23-10 Bolt in the Clevis. Remove and retain the AN23-10 Bolt, AN320-3 Nut, and (2) NAS1149D0332J Washers securing the Door Assembly to the Clevis.
3. At 206-502-104 Upper Clevis, remove and discard the MS24665-153 Cotter Pin securing the AN23-10 Bolt in the Clevis. Remove and retain the AN23-10 Bolt, AN320-3 Nut, and (2) NAS1149D0332J Washers securing the Door Assembly to the Clevis.
4. Unlatch Door latches and remove Door from aircraft. Composite Baggage Door removal from aircraft complete.
5. If required to remove the 206-502-103 (Upper) / 206-502-105 (Lower) Hinge from Door, drill out and discard the (3) MS20470AD4-6 Rivets and NAS1149D0332 Washers securing the Hinge to the Door. Hinge removal from Door complete.
6. If required to remove the 206-502-104 (Upper) / 206-502-106 (Lower) Clevis from the aircraft fuselage, remove and retain the (2) OEM or MS24694-S52 Screws (and 206-502-110 Shim(s), if applicable) securing the Clevis to the fuselage. Clevis removal complete.

5.2 INSTALLATION – COMPOSITE BAGGAGE DOOR KIT

See Figure 1.

NOTE

Use care during Composite Door installation to ensure Door does not fall free from aircraft.

NOTE

Installation of Baggage Door does to aircraft clevis requires (2) new MS24665-153 Cotter Pins.

1. If required to install the 206-502-104 (Upper) / 206-502-106 (Lower) Clevis to the aircraft fuselage, use the retained (2) OEM or MS24694-S52 Screws (and 206-502-110 Shim(s), if applicable) to secure the Clevis to the fuselage. Clevis installation complete.
2. If required to install the 206-502-103 (Upper) / 206-502-105 (Lower) Hinge to the Door, use (3) new MS20470AD4-6 Rivets and NAS1149D0332 Washers to secure the Hinge to the Door. Hinge installation to Door complete.
3. Place Composite Baggage Door Assembly in door opening, secure Door latches.
4. At 206-502-104 Upper Clevis and 206-502-106 Lower Clevis, use the retained AN23-10 Bolt, AN320-3 Nut, and (2) NAS1149D0332J Washers to securing the Door Assembly to each Clevis. Lock each AN320-3 Nut in place using a new MS24665-153 Cotter Pin.
5. If retention strap or door opener was installed on the Composite Baggage Door Assembly, open the Composite Baggage Door and install retention strap / door opener per retention strap / door opener manufacturer instructions and save the associated attachment hardware for reinstallation.
6. Verify proper Composite Baggage Door opening and closing. Close and latch Door; Composite Door installation complete.

6.0 STRUCTURAL FASTENER DATA

For hardware identification refer to Tables 3 thru 5 and Figure 1.

7.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this type design change.

8.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this type design change.

9.0 WEIGHT AND BALANCE

No Change.

10.0 PARTS BREAKDOWN

Tables 3 and 4 contain Parts Breakdown data for the Aeronautical Accessories Composite Baggage Door Kit (P/N 206-502-200). Table 5 contains Parts Breakdown data for the Aeronautical Accessories Baggage Door Replacement Hinge Kit (P/N 206-502-250).

The column Availability Code (AV Code) specifies the procurement status for each part. The codes to identify if a part is procurable, procedure details to get an assembly or local manufacture code are as follows:

AV Code	Details
0	Nonprocurable part
1	Procurable part
2	Procure as detail parts only
3	Procurable as Next Higher Assembly
4	Local manufacture. Contact AAI Product Support Engineering (PSE)
5	Part replacement requires a fixture or special equipment. Contact AAI PSE
6	Non-stock procurable part

TABLE 3. PARTS BREAKDOWN, 206-502-200 COMPOSITE BAGGAGE DOOR KIT

Qty	Part Number	Description	AV Code
1	206-502-201	Baggage Door Assembly	1
1	206-502-007	Washer	1
1	206-502-103	Upper Hinge	1
1	206-502-105	Lower Hinge	1
12	206-502-110	Shim	1
1	206-444-113	Decal	1
1	206-512-007	Bracket	1
2	AN23-10	Bolt	1
2	AN320-3	Nut	1
1	China Marker	Black Grease Pencil	1
8	MS20470AD4-6	Rivet	1
2	MS24665-153	Cotter Pin	1
2	MS24694-S47	Screw	1
4	NAS1149D0332J	Washer	1
6	140-001-1	Washer	1

TABLE 4. PARTS BREAKDOWN, 206-502-201 BAGGAGE DOOR ASSEMBLY

Qty	Part Number	Description	AV Code
1	206-502-020	Baggage Door	1
1	099-010-003	Seal	1
1	099-091-011	Decal	1
1	206-444-110	Decal	1
1	206-444-111	Decal	1
1	099-050-121	Adhesive	1
2	D1836-3-08M	Insert (Alt: NAS1836-3-08M)	1
2	H605S050A200	Latch	1
8	MS20470AD4-4	Rivet	1

**TABLE 5. PARTS BREAKDOWN, 206-502-250
 BAGGAGE DOOR REPLACEMENT HINGE KIT**

Qty	Part Number	Description	AV Code
1	206-502-104	Upper Clevis	1
1	206-502-106	Lower Clevis	1
1	206-502-107	Upper Hinge	1
1	206-502-109	Lower Hinge	1
12	206-444-110	Shim	1
2	AN23-10	Bolt	1
2	AN320-3	Nut	1
1	China Marker	Black Grease Pencil	1
8	MS20470AD4-6	Rivet	1
2	MS24665-153	Cotter Pin	1
2	MS24694-S52	Screw	1
4	NAS1149D0332J	Washer	1
6	140-001-1	Washer	1

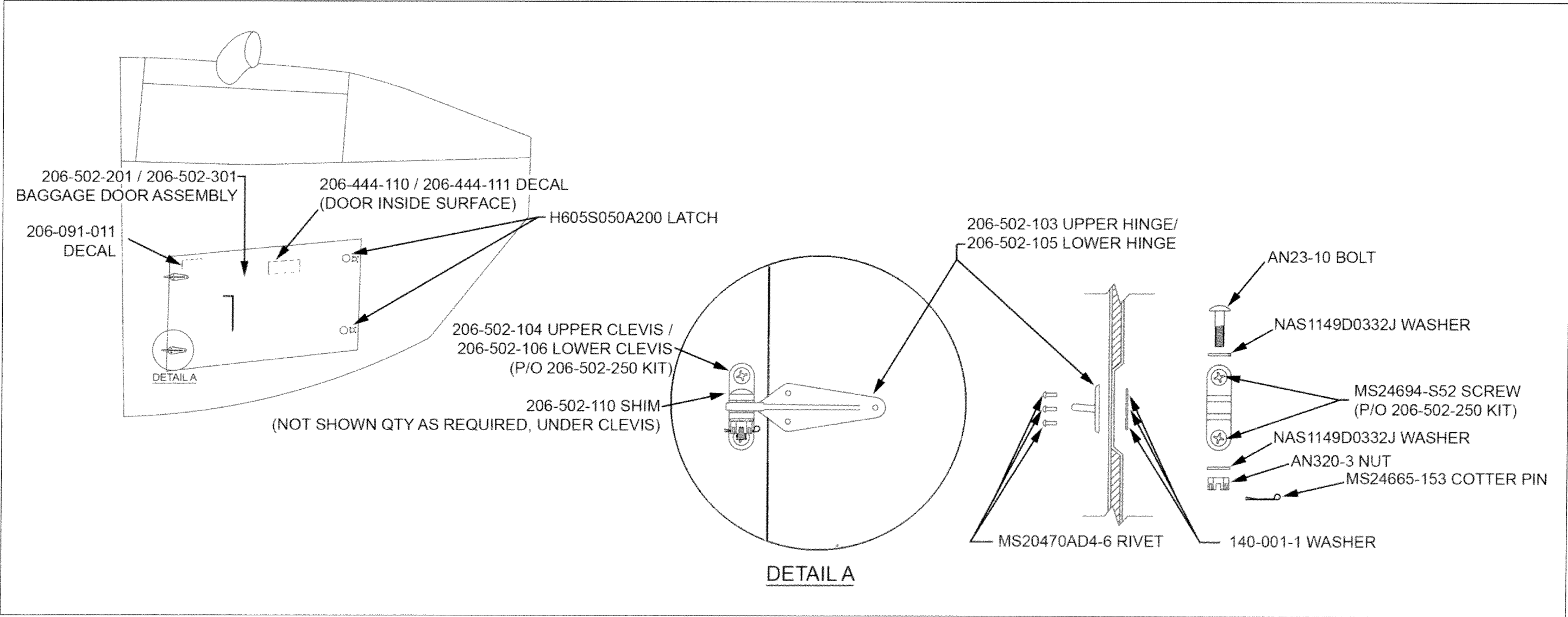


FIGURE 1. BAGGAGE DOOR INSTALLATION

APPENDIX A

Annual Inspection Record

Work Order Number: _____
Registration Number: _____
Serial Number: _____
Total Time: _____
Date: _____

The Composite Baggage Door shall receive an annual inspection incorporated into progressive maintenance programs, as appropriate. The inspection shall consist of the following items:

NOTE

Removal of Door from the helicopter is not required for inspection. If any damage is noted during the inspection, refer to Section 3.2, Repair. If the damage limits are exceeded, replace parts as required.

NOTE **NOTE**

The indications of corrosion are 1) corrosion deposits (a white or gray powder on aluminum or rust colored deposits on steel), 2) pits in the aluminum or steel surface, 3) blisters, bulging or flaking of protective coatings.

1. Inspect the door for scratches, nicks, dents, corrosion, and delamination. _____
2. Inspect attachment hardware for scratches, nicks, dents, corrosion, and security of attachment. _____
3. Verify "correct" operation of door, i.e., door does not "bind." _____
4. Ensure door latches are properly positioned on latch tabs on airframe. _____
5. Inspect all Decals for condition. _____

Signature _____ **A & P No.** _____

Signature _____ **Inspector** _____