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INSTALLATION INSTRUCTIONS

BATTERY DOOR

P/N 206-501-200

for

Bell 206A and 206B Model Helicopters

P/N 206-501-400

for

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

Report Number AA-91057

Revision N

July 10, 2003



LOG OF REVISIONS

Rev	Date	Description	Effected Pages
-	12/12/91	Original Release	All
A-J	1/17/96	Various Technical Updates	All
K	2/26/98	Added Log of Revisions Added FAA Approval Statement	2 3
L	8/30/01	Revised Spacer Specification from NAS43DD3-38 to NAS43DD3-38FC	4, 6, 8, 10,14
M	12/06/01	Revised Installation of Weather Strip Assembly Revised Adhesive Part Numbers	3, 4, 6 3-6, 8, 11, 15
N	7/10/03	Added Alternate ¼ Turn Stud and Washer.	4, 7, 9, 11, 15

These instructions contain the information necessary to install the AERONAUTICAL ACCESSORIES, INC. **BATTERY DOOR** on Bell 206A, B, L, L-1, L-3, L-4 model helicopters. These installation instructions are FAA approved under STC SR00044AT.

NOTE

For Bell Models 206A and 206B see Section I.

For Bell Models 206L and 206L-1 thru S/N 45556 see Section II.

For Bell Models 206L-1 S/N 45557 and Sub, 206L-3, and 206L-4 see Section III.

SECTION I

Bell Models 206A and 206B

NOTE

Read Section thoroughly before proceeding with installation.

1. Open battery door.
2. Disconnect all battery leads and vent hoses and remove battery from aircraft.
3. Remove lower stay spring attaching pin from stay bracket located on the aft wall of the battery compartment.

NOTE

To prevent damage, ensure that all battery cables and wire harnesses are out of the way before performing any drilling operation.

4. Remove fasteners that secure battery door hinge to airframe by drilling out rivets or removing screws. Remove old battery door.
5. Remove old seal around perimeter of battery compartment opening.
6. Clean battery compartment edging lip thoroughly.
7. Position 206-501-111 Weather Strip Assembly, as shown in Figure 1, with the bent edge forward and up. The left and right edges of the Weather Strip Assembly should be under the battery compartment edging lip. However, the beveled ends of the seal should be over the battery compartment edging lip. Drill four (4) holes (.097-.102 dia) through the battery compartment edging lip and through the Weather Strip Assembly. Evenly space holes with adequate edge distance. Countersink holes in the battery compartment edging lip to accommodate MS20426AD3-4 Rivet heads. Do not damage seal attached to Weather Strip Assembly during drilling or countersinking. Apply 099-050-222 Sealant to Weather Strip Assembly where it makes contact with battery compartment edging lip. Install Weather Strip Assembly using MS20426AD3-4 Rivets wet with 099-050-222 Sealant.

8. Trim 099-011-001 Seal to fit on battery compartment edging lip, noting that aft ends must be trimmed to match beveled ends of seal on 206-501-111 Weather Strip Assembly. Install 099-011-001 Seal using 099-050-243 Sealant. Secure ends of seal on Weather Strip Assembly using 099-050-243 Sealant.

NOTE

Due to differences in battery door openings, the edges of the Battery Door Assembly may need to be trimmed to match your battery door opening. For best results, trim the Battery Door Assembly by sanding.

9. Insert the aft half of the hinge of the 206-501-203 Battery Door Assembly into the opening vacated by the old hinge and align Battery Door Assembly with the battery compartment opening.

NOTE

Due to differences in battery door openings, the windshield center retaining strip may need to be trimmed, so that when the hinge is flush against the retainer, the battery door is properly centered.

10. Trim 099-010-003 Seal to fit on interior edge of Battery Door, noting that the location of the seal must match the location of the 099-011-001 Seal installed in step 8. Peel backing off of 099-010-003 Seal and attach to Battery Door.
11. Match drill (.165-.171 dia) Battery Door Assembly Hinge and Weather Strip Assembly to existing holes in airframe from old battery door. Install Battery Door Assembly, as shown in Figure 2, using MS27039-0808 Screws, NAS1149FN816P Washers, and MS21042L08 Nuts. Seal around hinge and hardware using 099-050-222 Sealant to prevent moisture from entering battery compartment.
12. Remove the aft-most clamp screws under battery compartment edging lip. Install MS27039-1-20 Screws, NAS43DD3-38FC Spacers, and 206-501-109 Cable Assemblies (attached to the Battery Door Assembly), as shown in Figure 2.
13. Remove the ¼-turn studs from the old battery door. Use the old battery door as a guide to locate and drill two (2) holes (.256-.263 dia.) in the Battery Door Assembly.
14. Install 2600-7S (Alt: 1126007-7) or 2600-8S (Alt: 1126007-8) ¼-Turn Studs (use appropriate length) and 2600-SW (Alt: 1127722) Washers into the Battery Door Assembly.
15. Thoroughly clean work area of debris.
16. Retighten all battery cables and wire harnesses previously loosened, reinstall the battery, and reconnect battery leads and vent hoses.
17. Weight and Balance: No change
18. Installation Complete.

SECTION II

Bell 206L and Bell 206L-1 thru S/N 45556

NOTE

Read Section thoroughly before proceeding with installation.

1. Open battery door.
2. Disconnect all battery leads and vent hoses and remove battery from aircraft.
3. Remove lower stay spring attaching pin from stay bracket located on the aft wall of the battery compartment.

NOTE

To prevent damage, ensure that all battery cables and wire harnesses are out of the way before performing any drilling operation.

4. Remove fasteners securing battery door hinge to airframe by drilling out rivets or removing screws. Remove old battery door.
5. Drill elongated hole in the nose honeycomb as shown in Figure 3.

NOTE

If forward ballast is present on the right-hand wall of the battery compartment and interferes with the installation of the 206-501-115 Tube Assembly, then the ballast must be relocated to allow clearance for the Tube Assembly.

6. Drill one (1) hole (.390-.397 dia) in the battery compartment right-hand wall as shown in Figure 4. On some aircraft, this hole may already exist in the battery compartment right-hand wall.
7. Apply 099-050-222 Sealant between the contacting surfaces of the 206-501-115 Tube Assembly and battery compartment right-hand wall. Install the Tube Assembly using MS20470AD3-4 Rivets wet with 099-050-222 Sealant. Seal the area where the Tube Assembly exits through the nose honeycomb with 099-050-222 Sealant. See Figure 5.
8. Remove old seal around perimeter of battery compartment opening.
9. Clean battery compartment edging lip thoroughly.

10. Position 206-501-111 Weather Strip Assembly, as shown in Figure 1, with the bent edge forward and up. The left and right edges of the Weather Strip Assembly should be under the battery compartment edging lip. However, the beveled ends of the seal should be over the battery compartment edging lip. Drill four (4) holes (.097-.102 dia) through the battery compartment edging lip and through the Weather Strip Assembly. Evenly space holes with adequate edge distance. Countersink holes in the battery compartment edging lip to accommodate MS20426AD3-4 Rivet heads. Do not damage seal attached to Weather Strip Assembly during drilling or countersinking. Apply 099-050-222 Sealant to Weather Strip Assembly where it makes contact with battery compartment edging lip. Install Weather Strip Assembly using MS20426AD3-4 Rivets wet with 099-050-222 Sealant.
11. Trim 099-011-001 Seal to fit on battery compartment edging lip, noting that aft ends must be trimmed to match beveled ends of seal on 206-501-111 Weather Strip Assembly. Install 099-011-001 Seal using 099-050-243 Sealant. Secure ends of seal on Weather Strip Assembly using 099-050-243 Sealant.

NOTE

Due to differences in battery door openings, the edges of the Battery Door Assembly may need to be trimmed to match your battery door opening. For best results, trim the Battery Door Assembly by sanding.

12. Insert the aft half of the hinge of the 206-501-203 Battery Door Assembly into the opening vacated by the old hinge and align Battery Door Assembly with the battery compartment opening.

NOTE

Due to differences in battery door openings, the windshield center retaining strip may need to be trimmed, so that when the hinge is flush against the retainer, the battery door is properly centered.

13. Trim 099-010-003 Seal to fit on interior edge of Battery Door, noting that the location of the seal must match the location of the 099-011-001 Seal installed in step 11. Peel backing off of 099-010-003 Seal and attach to Battery Door.
14. Match drill (.165-.171 dia) Battery Door Assembly Hinge and Weather Strip Assembly to existing holes in airframe from old battery door. Install Battery Door Assembly, as shown in Figure 2, using MS27039-0808 Screws, NAS1149FN816P Washers, and MS21042L08 Nuts. Seal around hinge and hardware using 099-050-222 Sealant to prevent moisture from entering battery compartment.
15. Remove the aft-most clamp screws under battery compartment edging lip. Install MS27039-1-20 Screws, NAS43DD3-38FC Spacers, and 206-501-109 Cable Assemblies (attached to the Battery Door Assembly), as shown in Figure 2.
16. Remove the ¼-turn studs from the old battery door. Use the old battery door as a guide to locate and drill two (2) holes (.256-.263 dia.) in the Battery Door Assembly.

17. Install 2600-7S (Alt: 1126007-7) or 2600-8S (Alt: 1126007-8) ¼-Turn Studs (use appropriate length) and 2600-SW (Alt: 1127722) Washers into the Battery Door Assembly.
18. Thoroughly clean work area of debris.
19. Retighten all battery cables and wire harnesses previously loosened, reinstall the battery, and reconnect battery leads and vent hoses.
20. Weight and Balance: No change
21. Installation Complete.

SECTION III

Bell 206L-1 S/N 45557 and subsequent,
Bell 206L-3, and Bell 206L-4

NOTE

Read Section thoroughly before proceeding with installation.

1. The following parts included in the kit are not required for this installation:

206-501-111	Weather Strip Assembly	1
206-501-115	Tube Assembly	1
MS20470AD3-4	Rivet	4
MS20426AD3-4	Rivet	4

2. Open battery door.
3. Disconnect all battery leads and vent hoses and remove battery from aircraft.

NOTE

To prevent damage, ensure that all battery cables and wire harnesses are out of the way before performing any drilling operation.

4. Remove fasteners securing battery door hinge to airframe by drilling out rivets or removing Screws.
5. Disconnect the cable assemblies and remove standoff screws and spacers that attach the battery door to the battery compartment opening. Remove old battery door.
6. Remove old seal around perimeter of battery compartment opening.
7. Clean battery compartment edging lip thoroughly.
8. Trim 099-011-001 Seal to fit on battery compartment edging. Install 099-011-001 Seal using 099-050-243 Sealant.

NOTE

Due to differences in battery door openings, the edges of the Battery Door Assembly may need to be trimmed to match your battery door opening. For best results, trim the Battery Door Assembly by sanding.

9. Insert the aft half of the hinge of the 206-501-203 Battery Door Assembly into the opening vacated by the old hinge and align Battery Door Assembly with the battery compartment opening.

NOTE

Due to differences in battery door openings, the windshield center retaining strip may need to be trimmed, so that when the hinge is flush against the retainer, the battery door is properly centered.

10. Trim 099-010-003 Seal to fit on interior edge of Battery Door, noting that the location of the seal must match the location of the 099-011-001 Seal installed in step 8. Peel backing off of 099-010-003 Seal and attach to Battery Door.
11. Match drill (.165-.171 dia) Battery Door Assembly Hinge and Weather Strip Assembly to existing holes in airframe from old battery door. Install Battery Door Assembly, as shown in Figure 2, using MS27039-0808 Screws, NAS1149FN816P Washers, and MS21042L08 Nuts. Seal around hinge and hardware using 099-050-222 Sealant to prevent moisture from entering battery compartment.
12. Attach 206-501-109 Cable Assemblies to the same locations that the old cable assemblies were attached using MS27039-1-20 Screws and NAS43DD3-38FC Spacers, as shown in Figure 2.
13. Remove the ¼-turn studs from the old battery door. Use the old battery door as a guide to locate and drill two (2) holes (.256-.263 dia.) in the Battery Door Assembly.
14. Install 2600-7S (Alt: 1126007-7) or 2600-8S (Alt: 1126007-8) ¼-Turn Studs (use appropriate length) and 2600-SW (Alt: 1127722) Washers into the Battery Door Assembly.
15. Thoroughly clean work area of debris.
16. Retighten all battery cables and wire harnesses previously loosened, reinstall the battery, and reconnect battery leads and vent hoses.
17. Weight and Balance: No change
18. Installation Complete.

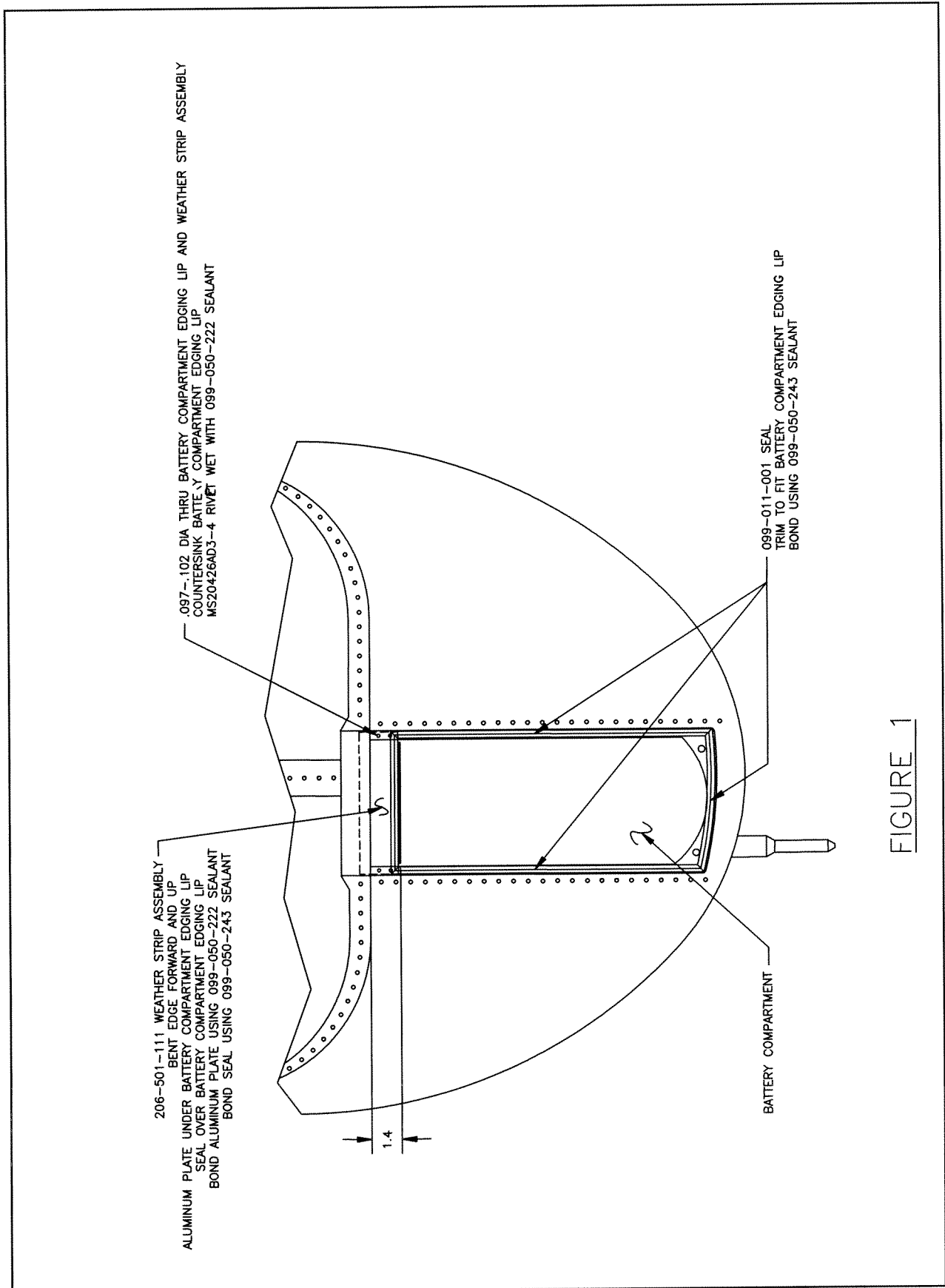
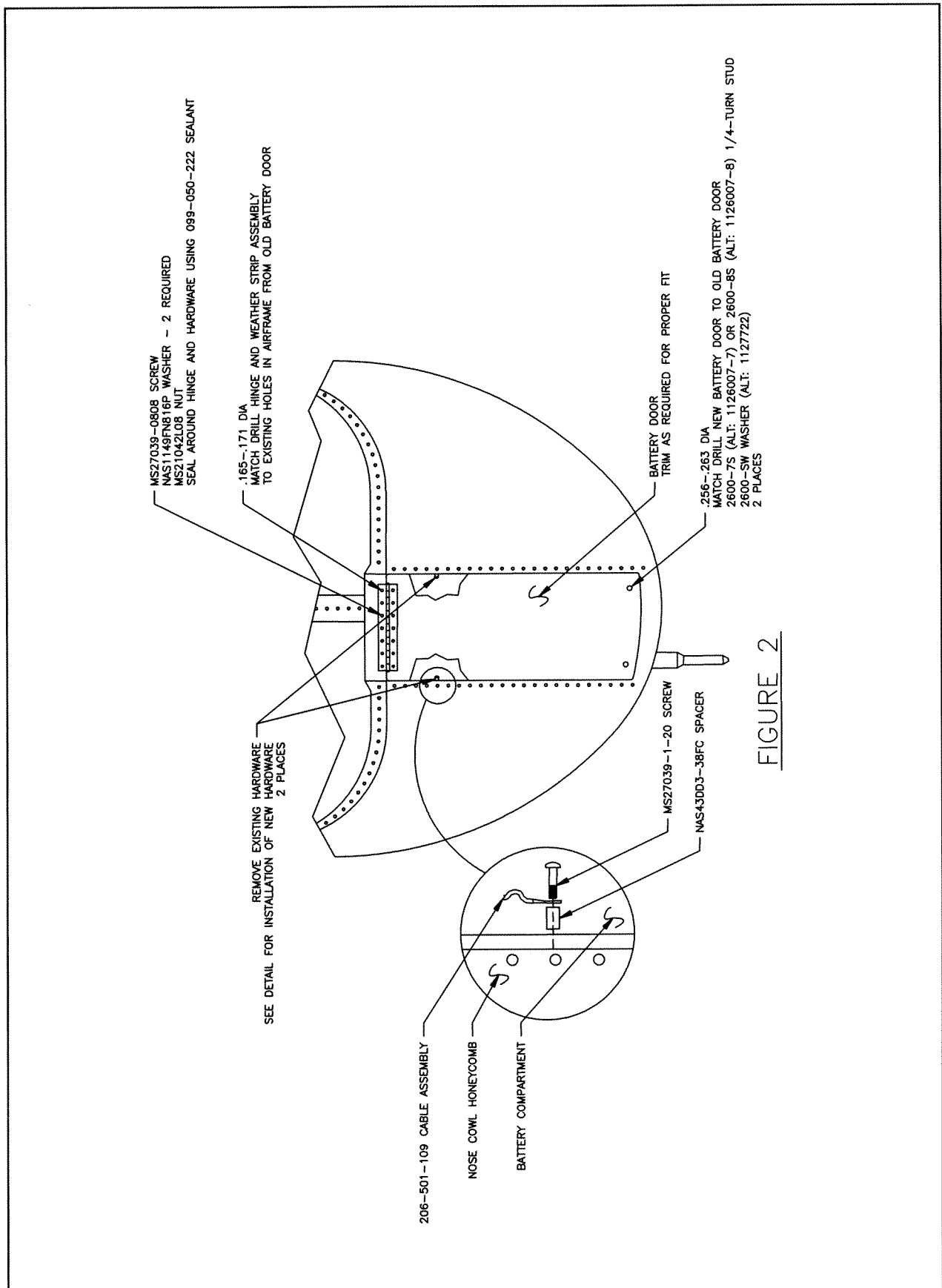
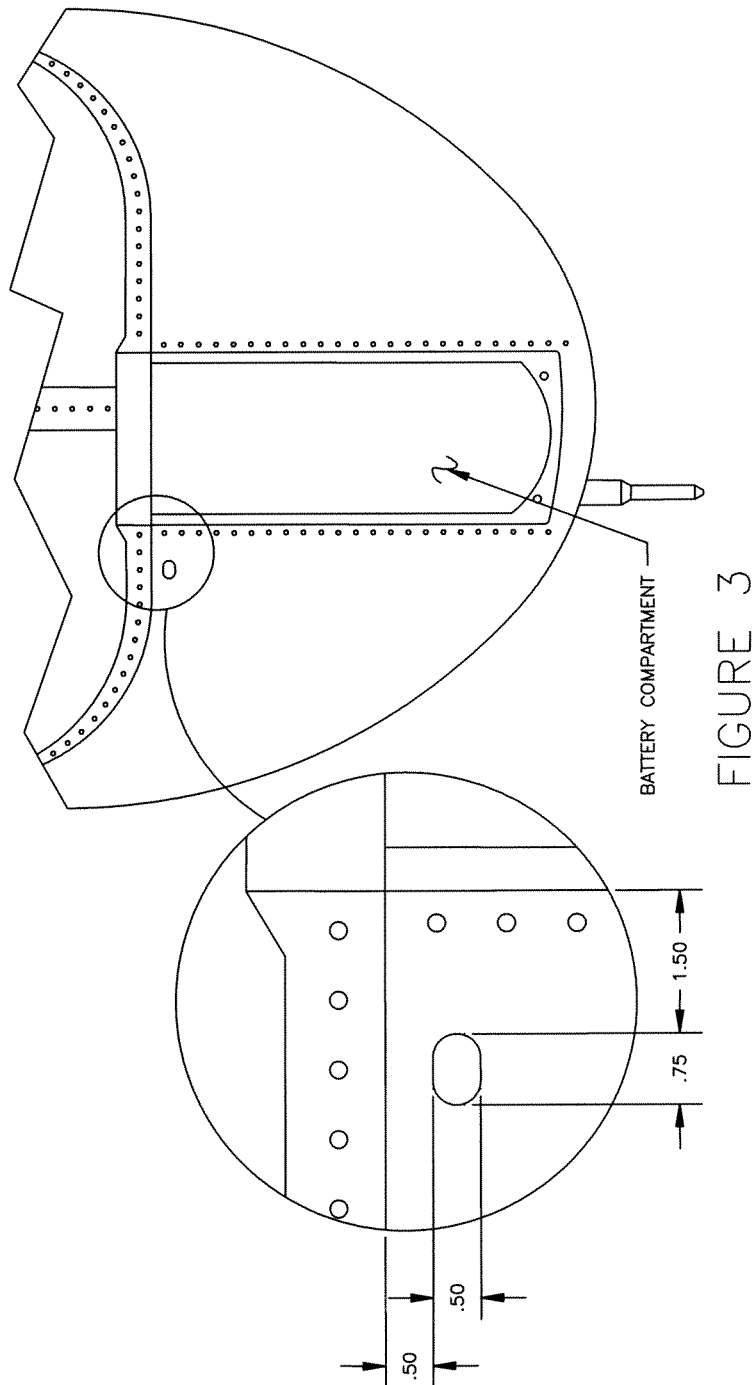
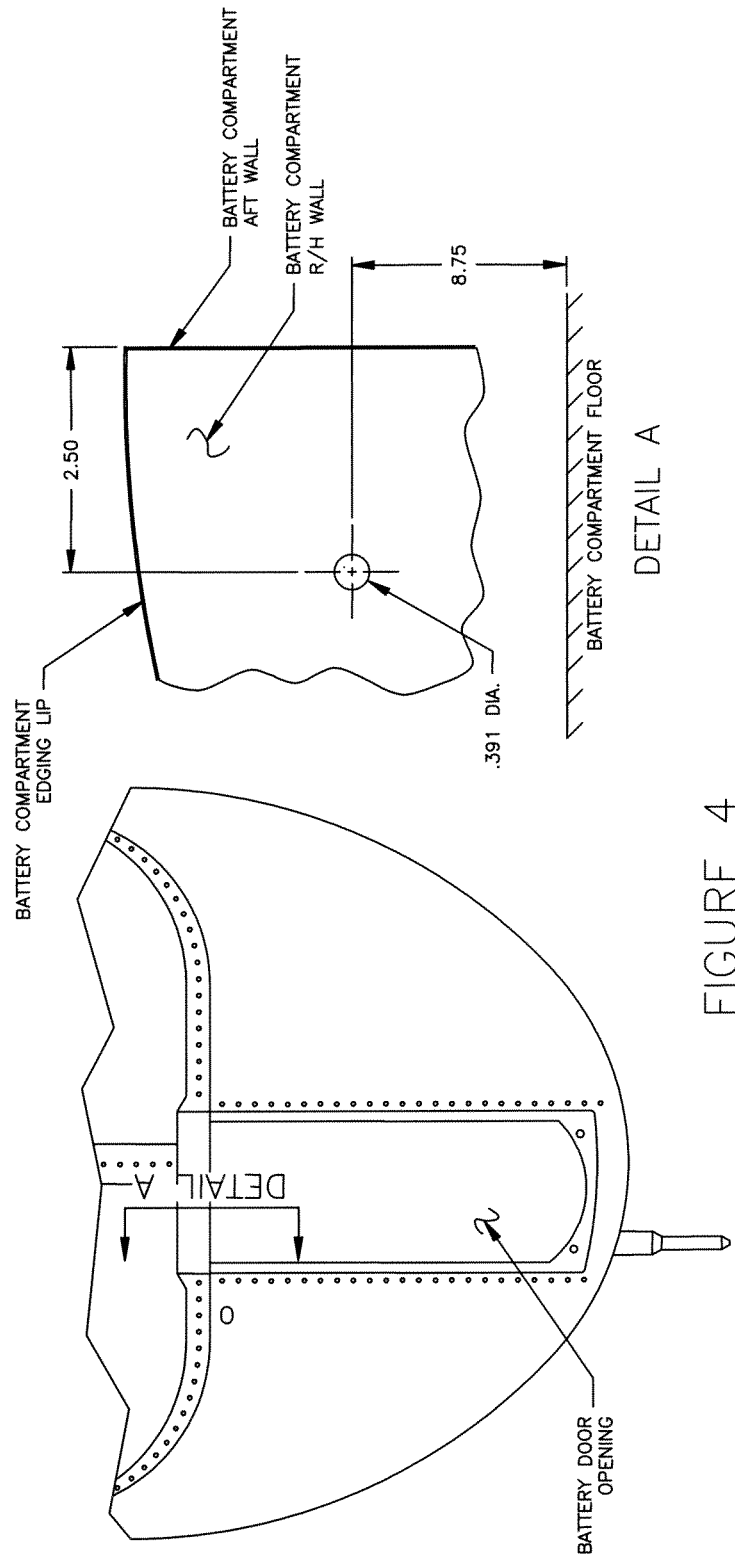


FIGURE 1







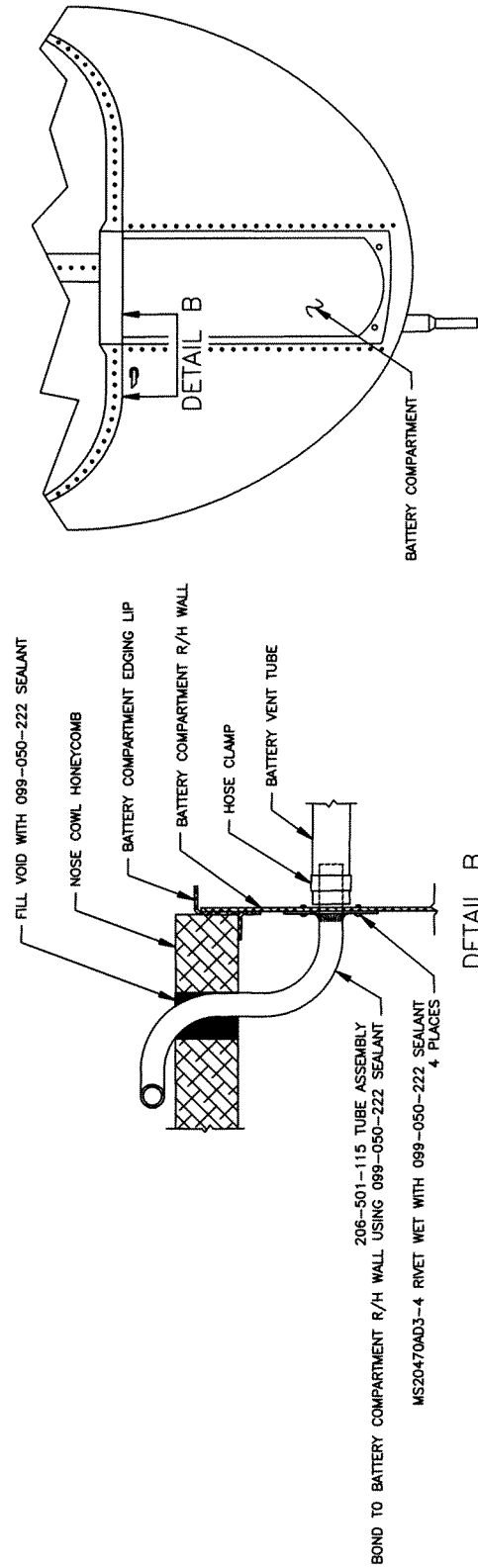


FIGURE 5

PARTS LIST
206-501 BATTERY DOOR KIT

	-200 Qty	-400 Qty	Part Number	Description
_____	1	1	206-501-203	Battery Door Assembly
_____	1	1	206-501-111	Weather Strip Assembly
_____	-	1	206-501-115	Tube Assembly
_____	60"	60"	099-010-003	Seal
_____	60"	60"	099-011-001	Seal
_____	2	2	2600-7S (Alt: 1126007-7)	¼-Turn Stud
_____	2	2	2600-8S (Alt: 1126007-8)	¼-Turn Stud
_____	2	2	2600-SW (Alt: 1127722)	Washer
_____	-	4	MS20470AD3-4	Rivet
_____	4	4	MS20426AD3-4	Rivet
_____	2	2	NAS43DD3-38FC	Spacer
_____	10	10	MS27039-0808	Screw
_____	2	2	MS27039-1-20	Screw
_____	20	20	NAS1149FN816P	Washer
_____	10	10	MS21042L08	Nut
_____	6 oz	6 oz	099-050-222	CS3204B2 Sealant
_____	3 oz	3 oz	099-050-243	RTV-732 Clear Sealant

Confirm inventory prior to installation.

Packed by: _____ Date: ____ / ____ / ____

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

Number SR00044AT

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, B, L, L-1, L-3, L-4

Description of Type Design Change:

Installation of replacement battery door in accordance with Aeronautical Accessories, Inc. Drawing List Report No. AA-92104, no revision, dated November 16, 1992, 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.

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: November 16, 1992

Date reissued: August 14, 2012

Date of issuance: December 10, 1992

Date amended:



By direction of the Administrator

Scott A. Horn
(Signature)

Scott A. Horn, 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): _____



Transport Canada
Ontario Region

Transports Canada
Région de l'Ontario

UNCLASSIFIED

Your file #

4th Floor
4900 Yonge Street,
Toronto ON M2N 6A5

Our file #

5010-0-09-0379

May 7, 2009

Aeronautical Accessories, Inc.
P.O. Box 3689
Bristol, Tennessee 37625-3689

Subject: **Transport Canada Acceptance of FAA STC Number SR00044AT**

Dear Sir or Madam:

This office has reviewed a request from **Aeronautical Accessories, Inc.**, for Transport Canada acceptance of the subject STC in accordance of Installation Instructions of Replacement battery door in accordance with Aeronautical Accessories, Inc. Drawing List, Report No. AA-92104, no revision, dated November 16, 1992 or later approved FAA approved revision.

In accordance with our current policy associated with the review of foreign STC's some STC's 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 STC's 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.

If you have any inquiries or require further assistance, in regards to this submission please don't hesitate to contact our office or myself quoting Napa project number 5010-O-09-0379.

Sincerely,

Alex Pompei, P. Eng, MBA

A/Regional Superintendent, Aircraft Certification

Transport Canada Civil Aviation - Ontario Region / Transports Canada Civil Aviation - Région de l'Ontario

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CC: Mr. E. Esparza, Fort Worth FAA AOC

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RDIMS/SGDDI :
Author: GREIGJ