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INSTRUCTIONS

for

CONTINUED AIRWORTHINESS

for

AUXILIARY BATTERY KIT

STC: SR02048AT

for

BELL HELICOPTER TEXTRON MODEL 206L-4 HELICOPTERS

Report Number AA-99114

Revision B

September 9, 2009



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LIST OF EFFECTIVE PAGES

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1.0 INTRODUCTION

These instructions contain the information necessary for inspection and maintenance of **AERONAUTICAL ACCESSORIES, INC., 206-725-001 / 206-725-002 AUXILIARY BATTERY KIT**, installed on Bell Helicopter Textron model 206L-4 helicopters in accordance with STC SR02048AT.

1.1 DISTRIBUTION

These instructions are provided with each Auxiliary Battery Kit. Any airworthiness or flight safety revisions will be immediately made available to all affected Auxiliary Battery 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 Inc.
P.O. Box 3689
Bristol, TN 37625-3689
Email: techsupport@aero-access.com

2.0 DESCRIPTION

The auxiliary battery system is designed to provide a back up battery for engine start or emergency power. The auxiliary battery can also be used in conjunction with the standard battery. The system includes the following primary components:

- a. Auxiliary Battery, 17 amp/hour Nickel-Cadmium (NI-CAD)
- b. Auxiliary Battery thermal warning system
- c. Auxiliary Battery relay & relay warning system
- d. Auxiliary Battery vent installation
- e. Battery select switch

Battery temperature is monitored by two thermal switches installed between the cells of the battery. The overheat temperature of the 17 amp/hour auxiliary battery is $145 \pm 5^\circ$ F. Upon reaching the overheat temperature, the AUX BATT HOT light of the caution/warning/advisory panel will illuminate. The light will remain illuminated until battery temperature decreases to $125 \pm 5^\circ$ F.

The auxiliary battery vent installation has an inlet tube and an outlet tube installed on the aft right side of the fuselage. The inlet tube is mounted above the outlet tube. In flight, ram air flows into the battery case and exits the case through the outlet vent tube.

The auxiliary battery relay is installed adjacent to the auxiliary battery in the baggage compartment and connects the battery to the 28 VDC bus and to the starter/generator systems. The auxiliary battery relay has one main contact and two individual auxiliary contacts. The main contact (A1 to A2) supplies battery power to the DC bus when it is closed. One of the two auxiliary contacts (21 and 22) supplies a ground path to the caution/warning/advisory panel. The auxiliary contact supplies the ground path when the battery relay fails in the closed position with the BATT SWITCH set to OFF. The ground path causes the amber auxiliary AUX BATT RLY light of the caution/warning/advisory panel to come on. The second set of auxiliary contacts is not used.

3.0 CONTROL, OPERATION INFORMATION

Operation of the auxiliary battery system is controlled by the three position battery select switch. In the FWD BAT position, the forward (normal) battery is selected and will provide all engine start and emergency electrical battery power. With the battery select switch in the BOTH position, battery loads will be shared by the forward (normal) and aft (auxiliary) batteries. With the battery select switch in the AFT BAT position, the aft (auxiliary) battery will supply all engine start and emergency electrical battery power.

To ensure the auxiliary battery is charged, with the battery selector switch to AFT BAT, a fully charged battery can be determined by moving the battery switch from BAT to OFF, with the generator on line, and observing the effect on the generator load meter. If the change in indications is less than 5 amperes (2.5% on load meter), the battery is fully charged.

For additional operation information refer to AUXILIARY BATTERY KIT Rotorcraft Flight Manual Supplement, AAI Report No. AA-99116.

4.0 SERVICING INFORMATION

The auxiliary battery shall not be serviced while installed in the helicopter. The battery shall be serviced by authorized battery shop personnel only.

5.0 MAINTENANCE INSTRUCTIONS

Refer to sections 5.1 through 5.5.

NOTE

Information pertaining to specific battery maintenance functions should be obtained from the Marathon Battery Maintenance Manual. Information is also available in the Bell Helicopter Electrical Standard Practice Manual (BHT-ELEC-SPM)

BATTERY-GENERAL WARNINGS

DO NOT WEAR JEWELRY WHEN YOU WORK ON OR HANDLE A NI-CAD BATTERY. ACCIDENTAL CONTACT OF JEWELRY WITH A BATTERY PART THAT CARRIES CURRENT CAN CAUSE A SHORT THAT COULD RESULT IN SERIOUS BURNS.

USE ONLY TOOLS THAT ARE COVERED WITH A NON-CONDUCTIVE INSULATION MATERIAL.

ELECTROLYTE CAUSES SERIOUS BURNS WHEN IT COMES IN CONTACT WITH THE SKIN. IMMEDIATELY WASH THE AFFECTED AREA WITH A LARGE QUANTITY OF WATER. NEUTRALIZE THE ELECTROLYTE WITH A 3% SOLUTION OF ACETIC ACID, VINEGAR, LEMON JUICE, OR WITH A 10% BORIC ACID SOLUTION. WASH THE AFFECTED AREA WITH WATER.

IF THE ELECTROLYTE GETS IN CONTACT WITH THE EYES, IMMEDIATELY WASH THE EYES WITH A LARGE QUANTITY OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION.

5.1 DAILY / PREFLIGHT INSPECTION**NOTE**

Removal of the auxiliary battery from the helicopter is not required for inspection. If any damage is noted during the Daily/Preflight Inspection, refer to Section 5.3 Repair or Section 6.0 Troubleshooting Information.

The Daily/Preflight inspection consists of the following items:

1. Remove the auxiliary battery cover assembly.
2. Check the electrical connectors to make sure that the connections are clean and tight.
3. Check the vent tubes to make sure that they are not clogged.
4. Check the battery case to make sure that there is no damage, cracks, or leaks.
5. Check battery hold down hardware for proper security.
6. Ensure all wiring is in good condition with no damage to protective coating

5.2 ANNUAL INSPECTION

The AUXILIARY BATTERY KIT shall receive an Annual Inspection consisting of the following items:

1. Complete the Daily/Preflight inspection listed above
2. Utilize the Inspection Record provided in Appendix A to document Inspection completion.

5.3 REPAIR

Basic electrical installation repair actions shall be in accordance with the Bell Helicopter Electrical Standard Practice Manual (BHT-ELEC-SPM).

Repair corrosion as follows:

1. Lightly polish the affected area using Scotch-Brite pads to remove the corrosion. Take care to remove as little of the component original protective coatings as possible.
2. For the aluminum components, after corrosion removal: 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.

5.4 CLEANING REQUIREMENTS**WARNING**

ONLY AUTHORIZED PERSONNEL INSTRUCTED IN THE MAINTENANCE PRECAUTIONS AND ASSOCIATED HAZARDS RELATED TO THE HANDLING OF NI-CAD BATTERIES SHOULD COMPLETE THIS PROCEDURE. SERIOUS INJURIES CAN OCCUR IF THE PROPER PRECAUTIONS ARE NOT TAKEN.

CAUTION

Do not clean the NI-CAD Battery in the baggage compartment.

CAUTION

Make sure that the battery vents are not open to avoid contamination inside the battery case.

CAUTION

Make sure that the exterior of the battery case is dry before it is installed in the baggage compartment. Failure to obey this precaution can result in corrosion.

CAUTION

Do not use the same tools that were used on lead-acid batteries. A strong chemical reaction will result if the two electrolytes come in contact.

1. Clean the exterior of the battery case and terminals with a dry stiff fiber brush or wash with water.
2. Make sure that the baggage compartment is free of alkaline deposits. If deposits are found, clean them with a 10% boric acid solution (O-C-265 or equivalent).
3. If necessary, retouch the varnished surfaces of the battery case, with a coat of alkaline resistant varnish (TT-V-199 or equivalent) on the surfaces that have been contaminated with alkaline deposits.

6.0 TROUBLESHOOTING INFORMATION**TABLE 1. TROUBLESHOOTING**

| Problem | Probable Cause | Remedy |
|--|--|--|
| Battery will not hold charge | Demand too great | Use external power source whenever possible |
| | Charging rate too low | Adjust voltage regulator |
| | Broken cell partitions | Replace battery |
| | Shorted or grounded wires | Repair wiring |
| | Unbalanced cells | Deep cycle in accordance with the Marathon Battery Maintenance Manual instructions |
| Excessive loss of electrolyte | Charging rate too high, if loss is in individual cell(s) only, cell(s) is faulty | Reduce charging rate |
| Battery terminals corroded, or gasses and bubbling of electrolyte | Cracked battery case | Check battery case for leaks. If leak detected, replace battery |
| Polarity reversed | Excessive charging or discharging rate | Adjust charging rate or load and clean terminals |
| Actuation of battery selection switch fails to turn on auxiliary power | Battery connections reversed | Check wiring to battery plug; reverse wiring if necessary |
| | Auxiliary battery relay points corroded or burned | Replace relay |
| | Faulty wiring between relay and battery switch | Check and repair wiring as required |
| | Defective battery switch | Replace switch |

7.0 REMOVAL AND REPLACEMENT INFORMATION

Refer to Tables 2 and 3 and Figures 1 through 3 for part identification.

7.1 REMOVAL – AUXILIARY BATTERY

1. Open the baggage compartment door.
2. Remove the auxiliary battery cover assembly (10).
3. Disconnect the electrical connector of cable assembly (52) from the auxiliary battery (54). Install a protective cover on the battery receptacle.
4. Disconnect the electrical connector of cable assembly (53) from the auxiliary battery (54).
5. Loosen the clamps (44) and remove the top and forward vent tube assemblies (3 and 4) from the auxiliary battery (54).
6. Remove the two bolts (16) and washers (18) from the auxiliary battery (54).
7. Remove the auxiliary battery (54) from the baggage compartment.
8. Secure the baggage compartment door

7.2 INSTALLATION - AUXILIARY BATTERY

1. Open the baggage compartment door.
2. Place the auxiliary battery (54) on the slides (5) in the forward right corner of the baggage compartment and slide into place to align the front tab attaching bolt holes.
3. Install the two bolts (16) and washers (18) that attach the auxiliary battery.
4. Remove the protective cover from the main power receptacle.
5. Apply a light coat of lubricant (DC-4 or equivalent) to the pins of the main power receptacle.
6. Connect the electrical connector of cable assembly (53) to the auxiliary battery (54).
7. Connect the electrical connector of cable assembly (52) to the auxiliary battery (54).
8. Install the top and forward vent tube assemblies (3 and 4) and tighten the clamps (44).

9. Install the auxiliary battery cover assembly (10).
10. Secure the baggage compartment door.

7.3 REMOVAL - AUXILIARY BATTERY RELAY

1. Disconnect both batteries and the external DC power from the helicopter.
2. Gain access to the auxiliary battery relay assembly by removing the auxiliary battery (54).
3. Pull back the terminal covers. Remove the nuts and washers at terminals A1, A2, and X2. Remove the wires.
4. With the insertion/extraction tool M81969/14-11 or M81969/14-02, remove the wires at terminals 21 and 22.
5. Remove the bolts (15) and washers (19).
6. Remove the battery relay.

7.4 INSTALLATION - AUXILIARY BATTERY RELAY

1. Install the relay on its mounting inserts in the baggage compartment. Install the washers (19) and bolts (15).
2. Install the wires on the terminals A1, A2 and X1 of the battery relay per Figure 3.
3. With the insertion/extraction tool M81969/14-11 or M81969/14-02, install the wires to the terminals 21 and 22 per Figure 3.

8.0 STRUCTURAL FASTENER DATA

Refer to Tables 2 and 3 and Figures 1 thru 3 for hardware identification.

9.0 SPECIAL TOOLS NEEDED

Tools required for auxiliary battery relay removal and installation:

| Part Number | Nomenclature |
|------------------------------|---------------------------|
| M81969/14-02 or M81969/14-11 | Insertion/extraction tool |

10.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this type design change.

11.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this type design change.

12.0 PARTS BREAKDOWN

Tables 2 and 3 contain Parts Breakdown data for the model 206L-4 Auxiliary Battery Kit as illustrated in Figures 1 thru 3.

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 2. PARTS BREAKDOWN,
206-725-001 / 206-725-002 AUXILIARY BATTERY KITS**

| Item No. | Qty -001 | Qty -002 | Part Number | Description | AV Code |
|----------|----------|----------|---------------|--------------------------|---------|
| 1 | 1 | | 206-726-001 | Electrical Kit | 1 |
| 2 | | 1 | 206-726-002 | Electrical Kit | 1 |
| 3 | 1 | 1 | 206-727-104 | Vent Tube Assembly | 1 |
| 4 | 1 | 1 | 206-727-105 | Vent Tube Assembly | 1 |
| 5 | 2 | 2 | 206-727-121 | Slide | 1 |
| 6 | 1 | 1 | 206-727-112 | Bracket Assembly | 1 |
| 7 | 2 | 2 | 206-727-123 | Vent Tube | 1 |
| 8 | 1 | 1 | 206-727-125 | Doubler | 1 |
| 9 | 1 | 1 | 206-727-126 | Grounding Bracket | 1 |
| 10 | 1 | 1 | 206-017-101 | Aux. Battery Cover Assy. | 1 |
| 11 | 4 | 4 | 80-005-3-8 | Insert | 1 |
| 12 | 4 | 4 | 80-005-2-8 | Insert | 1 |
| 13 | 12 | 12 | CR3214-4-3 | Rivet | 1 |
| 14 | 1 | 1 | 6398 A/B | Adhesive (8 oz.) | 1 |
| 15 | 4 | 4 | AN3-3A | Bolt | 1 |
| 16 | 2 | 2 | AN4-5A | Bolt | 1 |
| 17 | 2 | 2 | AN4-7A | Bolt | 1 |
| 18 | 4 | 4 | NAS1149D0416J | Washer | 1 |
| 19 | 6 | 6 | NAS1149D0316J | Washer | 1 |
| 20 | 2 | 2 | NAS1149D1016H | Washer | 1 |
| 21 | 3 | 3 | CR3213-4-2 | Rivet | 1 |

**TABLE 2. PARTS BREAKDOWN,
206-725-001 / 206-725-002 AUXILIARY BATTERY KITS**

| Item No. | Qty -001 | Qty -002 | Part Number | Description | AV Code |
|----------|----------|----------|---------------|-----------------------------|---------|
| 22 | 1 | 1 | 206-727-139 | Decal (Fwd Bat) | 1 |
| 23 | 1 | 1 | 206-727-140 | Decal (Both) | 1 |
| 24 | 1 | 1 | 206-727-141 | Decal (Aft Bat) | 1 |
| 25 | 1 | 1 | 206-727-142 | Decal (Weight Warning) | 1 |
| 26 | 2 | 2 | 206-727-143 | Decal (Vent Tube Label) | 1 |
| 27 | 4 | 4 | MS35489-11 | Grommet | 1 |
| 28 | 7 | 7 | MS21042L3 | Nut | 1 |
| 29 | 6 | 6 | MS35207-263 | Screw | 1 |
| 30 | 2 | 2 | MS21919WDG10 | Clamp | 1 |
| 31 | 6 | 6 | NAS1149D0332J | Washer | 1 |
| 32 | 1 | 1 | 099-859-002 | Syringe (15 cc) | 1 |
| 33 | 1 | 1 | CS-3204-B1/2 | Sealant (6oz) | 1 |
| 34 | 1 | 1 | AN5DD6A | Bolt | 1 |
| 35 | 2 | 2 | NAS1149D0516J | Washer | 1 |
| 36 | 1 | 1 | MS21042L5 | Nut | 1 |
| 37 | 6 | 6 | 80-004-2-6 | Insert | 1 |
| 38 | 3 | 3 | MS27039-1-06 | Screw | 1 |
| 39 | 3 | 3 | NAS1149D0363J | Washer | 1 |
| 40 | 1 | 1 | MS21266-2N | Flexible Grommet | 1 |
| 41 | 8 | 8 | MS21919WDG6 | Clamp | 1 |
| 42 | 4 | 4 | 20-032-1 | "L" Bracket | 1 |
| 43 | 5 | 5 | CR3213-4-3 | Rivet | 1 |
| 44 | 2 | 2 | AN737-TW30 | Clamp | 1 |
| 45 | 2 | 2 | AN737-TW26 | Clamp | 1 |
| 46 | 1 | 1 | 49504 | Loctite Super Glue | 1 |
| 47 | 1 | 1 | MS27039-1-09 | Screw | 1 |
| 48 | 1 | 1 | AN935-516 | Lockwasher | 1 |
| 49 | 1 | 1 | AN935-10 | Lockwasher | 1 |
| 50 | 7 | 7 | CR3213-4-1 | Rivet | 1 |
| 51 | 1 | 1 | 206-727-144 | Decal (Aux Battery Warning) | 1 |

**TABLE 3. PARTS BREAKDOWN,
206-726-001 / 206-726-002 AUXILIARY BATTERY ELECTRICAL KIT**

| Item No. | Qty -001 | Qty -002 | Part Number | Description | AV Code |
|----------|----------|----------|-----------------------|--|---------|
| 52 | 1 | 1 | 206-726-101 | Aux Battery Relay Assembly | 1 |
| 53 | 1 | 1 | 206-726-103 | Cable Assembly | 1 |
| 54 | 1 | 1 | 206-726-104 | Cable Assembly | 1 |
| 55 | 1 | | 30554-01C (SP170A) | Battery, Marathon | 1 |
| 56 | 2 | 2 | MS25171-3S | Nipple | 1 |
| 57 | 1 | 1 | MS27407-1 | Battery Select Switch (ABSW1) | 1 |
| 58 | 1 | 1 | 099-121-106 | Lens (Aux Battery Hot) (Alt. 25-0195-1749) | 1 |
| 59 | 1 | 1 | 099-121-105 | Lens (Aux Battery Relay) | 1 |
| 60 | 2 | 2 | M39029/35-274 | Contact | 1 |
| 61 | 6 | 6 | MS25036-102 | Terminal Ring | 1 |
| 62 | 1 | 1 | 606289-2 | Terminal Ring | 1 |
| 63 | 2 | 2 | 36154-1 | Terminal Ring | 1 |
| 64* | 1 | 1 | AUX111A22 | Wire 22 AWG. 6" | 1 |
| 65* | 1 | 1 | AUX109A22 | Wire 22 AWG. 6" | 1 |
| 66* | 1 | 1 | AUX104B4 | Wire 4 AWG. 6' | 1 |
| 67 | 2 | 2 | 1N5061 | Diode (ABCR-2 & ABCR-3) (Alt: 1N5551) | 1 |

*Part of 206-726-050 Wiring Kit

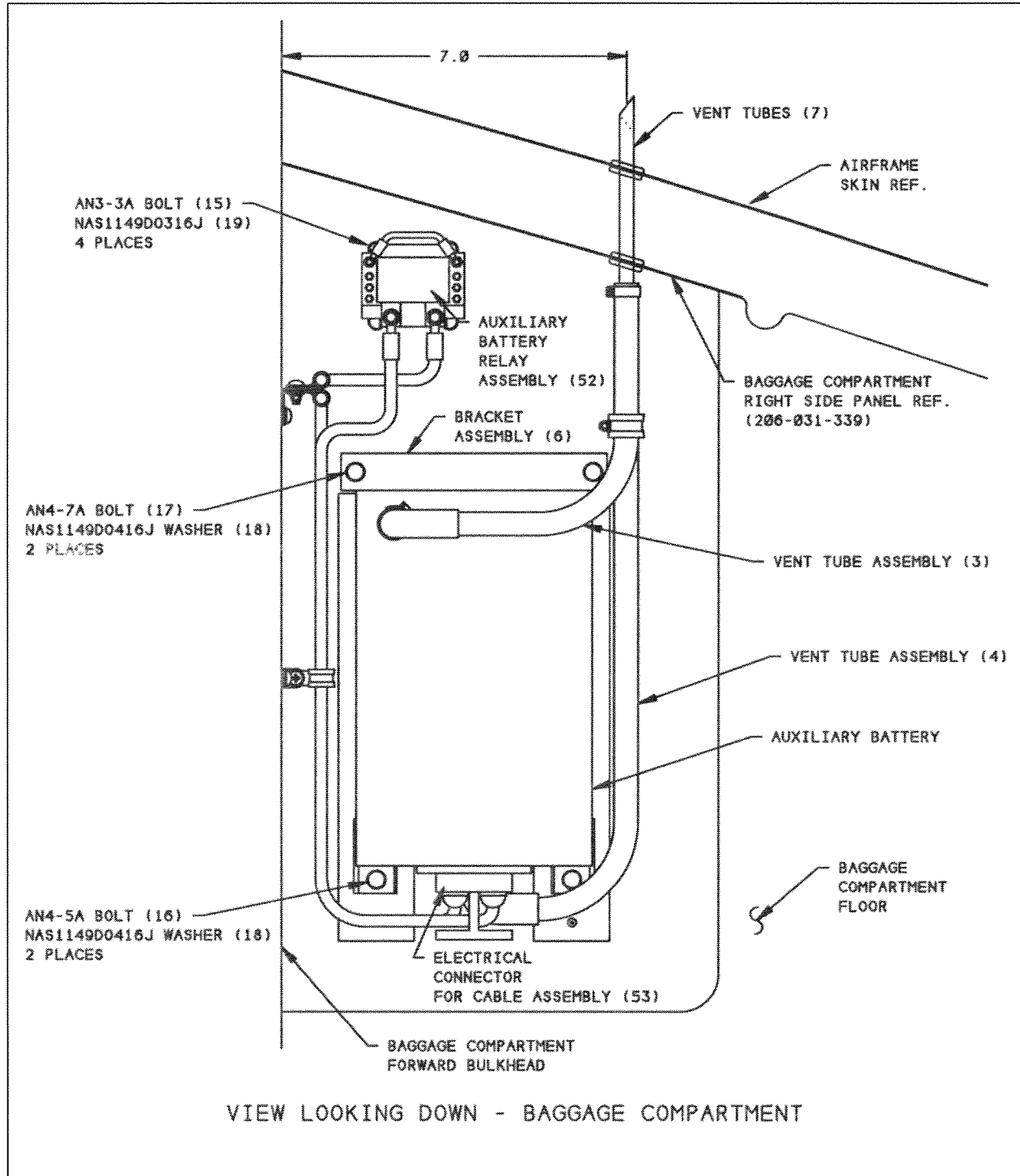


FIGURE 1. AUXILIARY BATTERY INSTALLATION – VIEW LOOKING DOWN, BATTERY COMPARTMENT

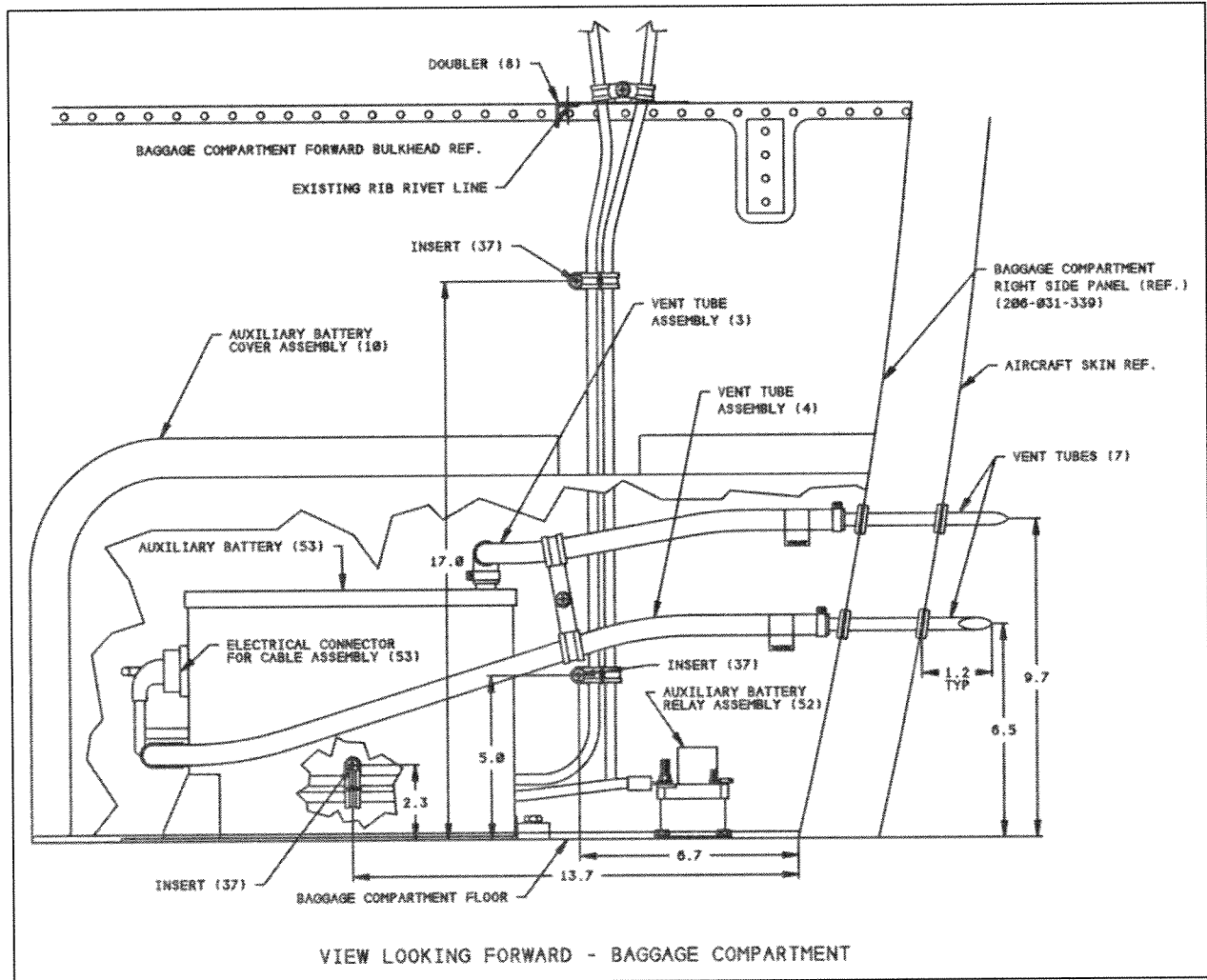


FIGURE 2. AUXILIARY BATTERY INSTALLATION – VIEW LOOKING FORWARD, BATTERY COMPARTMENT

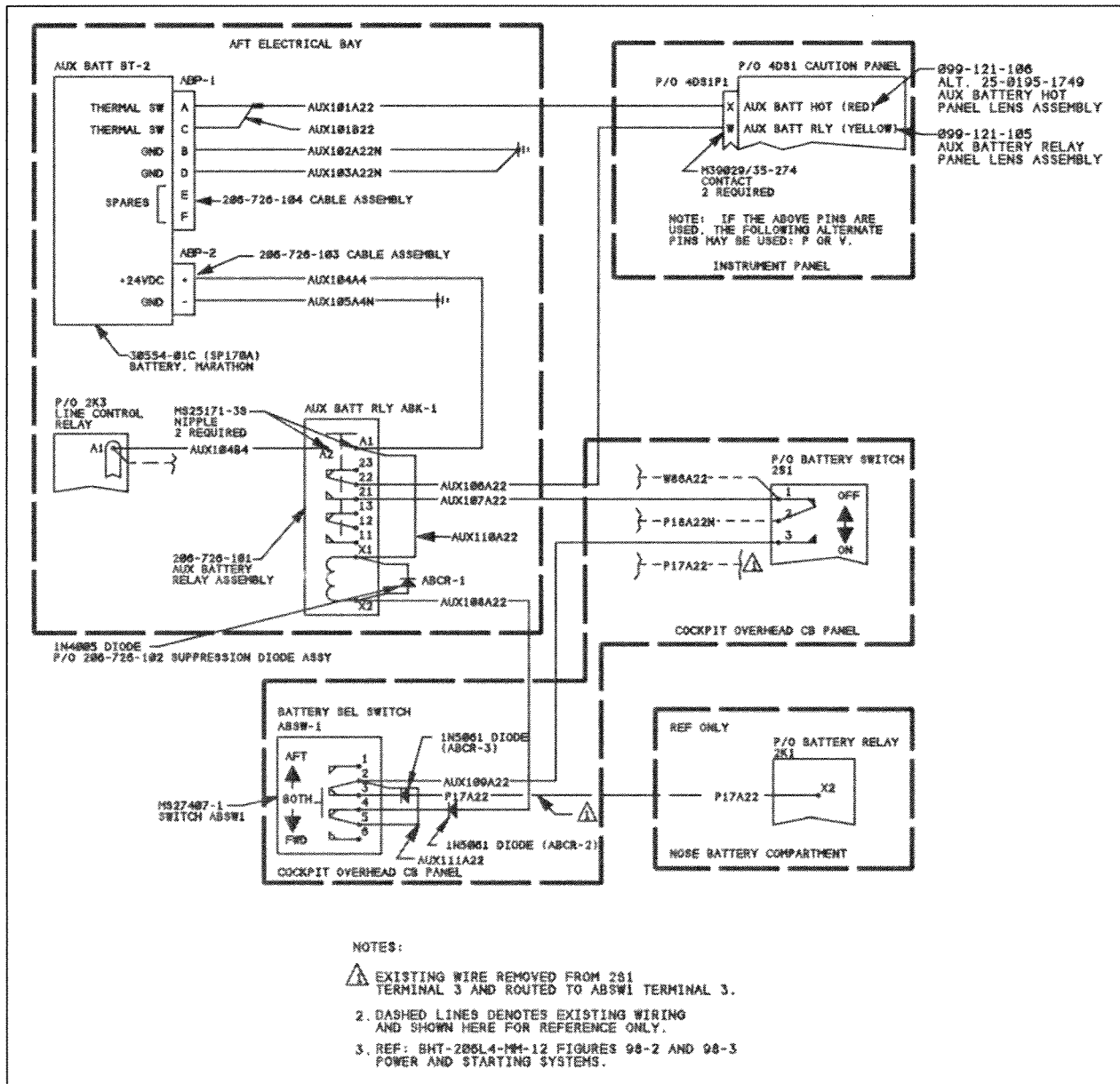


FIGURE 3. AUXILIARY BATTERY, WIRING DIAGRAM

APPENDIX A

Inspection Record

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

Inspect the Auxiliary Battery Kit for the following in accordance with Section 5.2, Annual Inspection.

- 1. Remove the auxiliary battery cover assembly _____
- 2. Check the electrical connectors to make sure that the connections are clean and tight _____
- 3. Check the vent tubes to make sure that they are not clogged _____
- 4. Check the battery case to make sure that there is no damage, cracks, or leaks _____
- 5. Check battery hold down hardware for proper security _____
- 6. Ensure all wiring is in good condition with no damage to protective coating _____

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

Signature _____ **Inspector** _____