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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

HARD-POINT INSTALLATION

MDHC MODELS 369, 500N, 600N

Cover
PR-369HP-120M
Rev. 0, 05/21/98

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✓Technology Inc.

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RECORD OF REVISIONS

| REVISION NO. | ISSUE DATE | DATE INSERTED | BY |
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REVISION CONTROL PROCEDURE

Revisions to this document are mailed to the aircraft owner of record. Before inserting a change, ensure this manual is current. Check the existing List of Effective Pages in this manual to ensure that all prior revisions are inserted. **Do not insert this revision if prior revisions are not inserted.**

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LIST OF EFFECTIVE PAGES

| PAGE NO. | REVISION | PAGE NO. | REVISION |
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| Cover | 0 | 2 | 0 |
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| A | 0 | 4 | 0 |
| B (Blank) | 0 | 5 | 0 |
| i | 0 | 6 | 0 |
| ii | 0 | | |
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These Instructions for Continued Airworthiness (ICA) except for the Airworthiness Limitations Section have been reviewed and found to comply with the applicable requirements of Appendix A to Federal Aviation Regulation Part 27.

FAA Acceptance Richard L. Sader Date 07/20/1998
 Fort Worth Aircraft Evaluation Group

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AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations Section is FAA approved and specifies inspections and other maintenance required under §§43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

The Hard-Point Installation System has no life-limited components.

| REVISION | DATE | APPROVED |
|----------|---------|------------------------------------|
| 0 | 7/28/98 | <i>Greg Schindler for Russ May</i> |
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Chapter 1; DESCRIPTION

- 1.0 The Hard-Point installation incorporates two hard-points in the helicopter, which provide lifting points for use of the Paravion Heliporter when moving the aircraft on the ground. This document provides a listing of the hard-point components and information to guide inspection, and repair if necessary.
- 1.1 The system installation includes the following major components:
- (a) Hard Point Assembly (Left), F.S. 58.25, B.L. -14.75
 - (b) Hard Point Assembly (Right), F.S. 58.25, B.L. +14.75
 - (c) Plates, for Support
 - (d) Placard

Chapter 2; MAINTENANCE PROCEDURES

TABLE 1
 ANNUAL/100 HOUR INSPECTION

| ITEM/SYSTEM | PROCEDURE |
|-----------------------|---|
| HARD POINT ASSEMBLY | ACCESS CARGO COMPARTMENTS UNDER FRONT FLOOR. INSPECT FOR CORROSION AND/OR DEFORMATION. CHECK SECURITY OF LUG EXTENDING THROUGH AIRCRAFT SKIN. REPAIR OR REPLACE IF NECESSARY. |
| FASTENER INSTALLATION | CHECK SECURITY OF FASTENERS INSTALLATION, SIGNS OF MOVEMENT** TIGHTEN BOLTS, REPAIR RIVETS INSTALLATION AS NECESSARY.* |
| PLACARD | VERIFY THAT PLACARD IS LEGIBLE. REPLACE AS NECESSARY. |

* Corrosion or deformation is cause for replacement.
 * * Refer to aircraft manufacturer's data for airframe repair, if required.

TABLE 2
 WEIGHT AND BALANCE DATA

| ITEM | WT. (LB.) | F.S. (IN.) | B.L. (IN.) |
|-------------------|-----------|------------|------------|
| HARD POINT INST'N | 3.3 | 56.0 | 0.0 |
| | | | |
| | | | |
| | | | |

2.0 REMOVAL, HARD POINT ASSEMBLY

- (a) Access the cargo compartments under the front floor, remove battery and cargo liners if installed.
- (b) Remove fasteners attaching the hard point assembly to the Bulkhead and frame reference Fig. 1, Page 4
- (c) Remove the hard point assembly and plates.
- (d) Replace cargo liners and battery, and close cargo compartments access.
- (e) Adjust Weight and Balance data to reflect hard point removal.

2.1 INSTALLATION, HARD POINT ASSEMBLY

- (a) Access the cargo compartments under the front floor, remove battery and cargo liners if installed.
- (b) Reference Fig. 1, Page 4 install components to existing provisions. Torque bolts to 20/25in-lb.
- (c) Replace cargo liners and battery, and close cargo compartments access.
- (d) Adjust Weight and Balance data to reflect hard point installation.

FIGURES

Parts List
FOR PAGE 4

| ITEM NO | P/N | DESCRIPTION | QTY | TYP |
|---------|---------------|--------------------------|-----|-----|
| 0 | *369HP-100-1 | HARD POINT INST'N | 1 | KIT |
| 1 | 1624-0411 | RIVET | 2 | EA. |
| 2 | 369HP-201-1 | PLACARD | 1 | EA. |
| 3 | 369HP-220-1 | HARD POINT ASSY. (LEFT) | 1 | EA. |
| 4 | 369HP-225-21 | PLATE | 2 | EA. |
| 5 | 369HP-225-22 | PLATE | 2 | EA. |
| 6 | 369HP-225-23 | PLATE | 2 | EA. |
| 7 | 369HP-225-24 | PLATE | 2 | EA. |
| 8 | 369HP-225-25 | SHIM (AS REQUIRED) | 4 | EA. |
| 9 | 369HP-225-26 | SHIM (AS REQUIRED) | 4 | EA. |
| 10 | AN3-6A | BOLT | 20 | EA. |
| 11 | CR3243-4-2 | RIVET | 10 | EA. |
| 12 | CR3243-4-6 | RIVET | 4 | EA. |
| 13 | MS35333-39 | WASHER | 20 | EA. |
| 14 | MS21042L3 | NUT | 8 | EA. |
| 15 | NAS1149DO363K | WASHER | 28 | EA. |
| 16 | 369HP-220-2 | HARD POINT ASSY. (RIGHT) | 1 | EA. |

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Appendix A
PARTS 27 or 29 REQUIREMENTS

The following is a breakdown of Appendix A to Federal Aviation Regulations (FAR) Part 27 or 29 for Type Certificate (TC), Supplemental Type Certificate (STC), or FAA Field Approval requiring Instructions for Continued Airworthiness (ICA). This breakdown is intended to provide guidance to assist an applicant in understanding the ICA requirements of Federal Aviation Regulations (FAR) § 27.1529 or § 29.1529. An applicant may use this guidance to prepare the ICA. Completion of this appendix will provide information needed for the evaluation and will reduce the time required for evaluation of the proposed ICA. A() is either 27 or 29, () Status of ICA: Y = Yes, included; N = No, not included; N/A = not applicable. Location: The page number which contain the information.

Project Number(s) _____ ACO/FSDO ANM-100D

| Applicant | Make | Model | Date |
|--|------|-------|-----------------------|
| Requirement | | | Regulation |
| Regulation | | | Location |
| (N/A) ICA for each engine. | | | A().1(b) N/A |
| (N/A) ICA for each rotor. | | | A().1(b) N/A |
| (Y) ICA for each appliance required by this chapter. | | | A().1(b) ALL |
| Any required Information relating to the interface of the (N/A) appliances, (N/A) engines, and (N/A) rotors with the rotorcraft. | | | A().1 (b) N/A |
| If ICA are not supplied by the manufacture of an (N/A) appliance (N/A) engine, or (N/A) rotor installed in the rotorcraft, the ICA for the rotorcraft must include (N/A) the information essential to the continued airworthiness of the rotorcraft. | | | A().1 N/A |
| (Y) A program showing how changes to the applicant's ICA will be distributed. | | | A().1 (c) PG A |
| (N/A) A program showing how changes to the ICA of the manufacture of the engine(s), rotor(s), and appliances installed in the rotorcraft will be distributed, if referenced in applicant's ICA. | | | A().1(c) N/A |
| (Y) ICA must be in the form of a manual or manuals as appropriate for the quantity of data. | | | A().2 (a) ALL |
| (Y) A format of the manual or manuals which must provide for a practical arrangement. | | | A().2 (b) ALL |
| (Y) Content prepared in the English language. | | | A().3 ALL |
| (Y) Introduction information that includes (Y) an explanation of the rotorcraft's features and (Y) data to the extent necessary for maintenance and preventive maintenance. | | | A().3 (a)(1) PG 1 |
| (N/A) A description of the (N/A) rotorcraft and its systems and installations, (N/A) engines and their systems and installations, (N/A) rotors and their systems and installations, and (N/A) appliances and their systems and installations. | | | A().3 (a)(2) N/A |
| (N/A) Basic control and operating information describing (N/A) how the rotorcraft components and systems are controlled and (N/A) how the rotorcraft components and systems are operated including (N/A) any special procedures and limitations. | | | A().3 (a)(3) N/A |
| (N/A) Servicing information that covers details regarding (N/A) servicing points, (N/A) capacities of tanks, (N/A) capacities of reservoirs, (N/A) types of fluids to be used, and (N/A) pressures applicable to the various systems. | | | A().3 (a)(4) N/A |
| Location of access panels for (Y) inspection and (N/A) servicing. | | | A().3 (a)(4) PG 4 |
| (N/A) Servicing information that covers details regarding (N/A) locations of lubrication points and (N/A) the lubricants to be used. | | | A().3 (a)(4) N/A |
| (N/A) Equipment required for servicing. | | | A().3 (a)(4) N/A |
| (N/A) Tow instructions and limitations. | | | A().3 (a)(4) N/A |
| (N/A) Mooring information. | | | A().3 (a)(4) N/A |
| (N/A) Jacking information. | | | A().3 (a)(4) N/A |
| (N/A) Leveling information. | | | A().3 (a)(4) N/A |
| (Y) Scheduling information for each part of the rotorcraft that, provides the recommended periods at which each part should be (N/A) cleaned, (Y) inspected, (N/A) adjusted, (N/A) tested, and (N/A) lubricated and (Y) the work recommended at these periods. | | | A().3 (b)(1) TABLE I |

Appendix A
PARTS 27 or 29 REQUIREMENTS

| Requirements | Regulation | Location |
|---|---------------|------------------|
| (N/A) Scheduling information for the rotorcraft's engine(s) that provides the recommended periods at which engine(s) should be (—) cleaned, (—) inspected, (—) adjusted, (—) tested, and (—) lubricated and (—) the work recommended at these periods. # Note. This information may be in the FAA accepted engine ICA. | A().3 (b)(1) | N/A |
| (N/A) Scheduling information for the rotorcraft's auxiliary power unit(s) (APU) that provides the recommended periods at which APU should be (—) cleaned, (—) inspected, (—) adjusted, (—) tested, and (—) lubricated and (—) the work recommended at these periods.--- | A().3 (b)(1) | N/A |
| (N/A) Scheduling information for the rotorcraft's rotor(s) that provides the recommended periods at which rotor(s) should be (—) cleaned, (—) inspected, (—) adjusted, (—) tested, and (—) lubricated and (—) the work recommended at these periods. | A().3 (b)(1) | N/A |
| (Y) Scheduling information for the rotorcraft's accessories that provides recommended periods at which accessories should be (N/A) cleaned, (Y) inspected, (N/A) adjusted, (N/A) tested, and (N/A) lubricated and (Y) the work recommended at these periods. | A().3 (b)(1) | TABLE I |
| (N/A) Scheduling information for the rotorcraft's instruments that provides recommended periods at which instruments should be (—) cleaned, (—) inspected, (—) adjusted, (—) tested, and (—) lubricated and (—) the work recommended at these periods. | A().3 (b)(1) | N/A |
| (N/A) Scheduling information for the rotorcraft's equipment that provides the recommended periods at which equipment should be (—) cleaned, (—) inspected, (—) adjusted, (—) tested, and (—) lubricated and (—) the work recommended at these periods. | A().3 (b)(1) | N/A |
| (Y) The degree of inspection for each part of the (N/A) rotorcraft and its (N/A) engine(s), (N/A) auxiliary power unit, (N/A) rotor(s), (Y) accessories, (N/A) instruments and (N/A) equipment. | A().3 (b)(1) | TABLE I |
| (N/A) The applicable wear tolerances. | A().3 (b)(1) | N/A |
| The applicant may refer to an (N/A) accessory, (N/A) instrument, or (N/A) equipment manufacturer as the source of this information if the applicant shows (N/A) that the item has an exceptionally high degree of complexity requiring specialized maintenance techniques, test equipment, or expertise. | A().3 (b)(1) | N/A |
| (N/A) The recommended overhaul periods and necessary cross references to the Airworthiness Limitation Section. | A().3 (b)(1) | N/A |
| (Y) An inspection program that includes (Y) the frequency and (Y) extent of the inspection necessary to provide for the continued airworthiness of the rotorcraft. | A().3 (b)(1) | TABLE I |
| (N/A) Troubleshooting information describing (N/A) problem malfunctions, (N/A) how to recognize those malfunctions, and (N/A) the remedial action for those malfunctions. | A().3 (b)(2) | N/A |
| (N/A) Information describing the order and method of (—) removing and (—) replacing engine(s) with any necessary precautions to be taken. | A().3 (b)(3) | N/A |
| (N/A) Information describing the order and method of (—) removing and (—) replacing rotor(s) with any necessary precautions to be taken. | A().3 (b)(3) | N/A |
| (Y) Information describing the order and method of (Y) removing and (Y) replacing parts with any necessary precautions to be taken. | A().3 (b)(3) | Page 4 |
| (N/A) Other general procedural instructions including (—) storage limitations and procedures for (—) testing systems during ground running, (—) making symmetry checks, (—) weighing and determining the center of gravity, (—) lifting, and (—) shoring. | A().3 (b)(4) | N/A |
| (N/A) Diagrams of structural access plates and information needed to gain access for inspections when access plates are not provided. | A().3 (c) | N/A |
| (N/A) Details for the application of special inspection techniques including radiographic and ultrasonic testing where such processes are specified. | A().3 (d) | N/A |
| (N/A) Information needed to apply protective treatment to structure after inspection. | A().3 (e) | N/A |
| (Y) All data relative to structural fasteners such as (Y) identification, (Y) discard recommendations, and (Y) torque values. | A().3 (f) | FIG. 1, Pg. 4 |
| (N/A) A list of special tools needed. | A().3 (g) | N/A |

Appendix A
PARTS 27 or 29 REQUIREMENTS

The Airworthiness Limitations Section (ALS) is evaluated and approved by Aircraft Certification. The applicant's proposed ICA submitted to FTW-AEG should include for information only a copy of the ALS submitted to the Aircraft Certification Office.

| Requirements | Regulation | Location |
|--|------------------------------------|----------|
| (<input checked="" type="checkbox"/>) The ICA must contain a section, titled Airworthiness Limitations that is (<input checked="" type="checkbox"/>) segregated and (<input checked="" type="checkbox"/>) clearly distinguishable from the rest of the document. | A().4 | PG 1 |
| (<input checked="" type="checkbox"/>) The Airworthiness Limitations Section must set forth each mandatory replacement time, structural inspection procedure approved under § 27.571 or § 29.571. | A().4 | N/A |
| (<input checked="" type="checkbox"/>) If the ICA consist of multiple documents, the Airworthiness Limitations section required by this paragraph must be included in the principal manual. | A().4 | N/A |
| (<input checked="" type="checkbox"/>) The Airworthiness Limitations section must contain a legible statement in a prominent location that reads, "The Airworthiness Limitations Section is FAA approved and specifies inspections and other maintenance required and under §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved." | A27.4 For Part 27 Rotorcraft | PG 1 |
| (<input checked="" type="checkbox"/>) The Airworthiness Limitations section must contain a legible statement in a prominent location that reads, "The Airworthiness Limitations Section is FAA approved and specifies maintenance required and under §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved." | A29.4 For Part 29 Rotorcraft | N/A |