

PARAVION TECHNOLOGY, INC.  
2001 AIRWAY AVENUE  
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**REPORT NO. PR-369DA-120M**  
**PNEUMATIC DOOR OPENER SYSTEM**  
**MDHC MODELS 369, 500N, 600N**

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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**RECORD OF REVISIONS**

REVISION NO.	ISSUE DATE	DATE INSERTED	BY
0			

**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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**LOG OF ACCEPTED REVISIONS**

Paravion Technology, Inc. Instructions for Continued Airworthiness (ICA) for MDHC 369 SERIES, 500N, 600N rotorcraft except for the Airworthiness Limitations Section (ALS) were reviewed by the Fort Worth Aircraft Evaluation Group (FTW AEG) and found to contain the applicable requirements specified in Appendix A to Federal Aviation Regulations Part 27 or 29, as appropriate, and do not contain any incorrect terminology or incorrect references. These ICA were found to contain a Cover Page, Log of Accepted Revisions, Revision Control Procedure and Record of Revisions, a List of Effective Pages, and a Table of Contents. No determination as to correct spelling, proper grammar, or accuracy of the information was made by the FTW AEG. For ICA having a required Airworthiness Limitations Section (ALS), the ICA will be acceptable when this page has been signed and dated by the FTW AEG and the ALS is approved by the Aircraft Certification Service. When the ICA do not require an approved ALS, the ICA will be acceptable when this page has been signed and dated by the FTW AEG.

REVISION NUMBER	REVISION DATE	FAA ACCEPTANCE SIGNATURE	ACCEPTANCE DATE	ACCEPTING AEG OFFICE
Original	12-15-97	G. Richard Y. Hannon	12-15-97	FTW-AEG

**LIST OF EFFECTIVE PAGES**

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**AIRWORTHINESS LIMITATIONS**

The Airworthiness Limitations Section is FAA approved and specifies inspections and other inspections and other maintenance required under §543.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

The Pneumatic Door Opener System has no life-limited components.

REVISION	DATE	APPROVED
0	01/20/98	Ray A. Caldwell ANM-100D

**Chapter 1; GENERAL INFORMATION**

The Pneumatic Door Opener installation uses a pneumatic cylinder to open the door on which it is installed. The system is comprised of a cylinder with brackets attached to the door and door frame. A safety clip is installed on each of the pneumatic cylinder rod ends.

The Pneumatic Door Opener System (PDO) may be installed on various door locations and/or the baggage compartment door. Specific components are required at different door locations. The applicable components can be determined from the Parts List (page 3).

**Chapter 2; MAINTENANCE PROCEDURES**

**TABLE 1  
 ANNUAL/100 HOUR INSPECTION**

<b>ITEM/SYSTEM</b>	<b>PROCEDURE</b>
SAFETY CLIPS (ES39202-1)	VERIFY INSTALLATION NOTE: ALTERNATE TO ES39202-1 IS AN381-1-14
DOOR MOUNT BRACKETS INSTALLATION	CHECK FASTENERS SECURITY, BRACKET CONDITION. REPLACE AS NECESSARY *
FUSELAGE MOUNT BRACKETS INSTALLATION	CHECK FASTENERS SECURITY, BRACKET CONDITION. REPLACE AS NECESSARY. *
PNEUMATIC CYLINDER	CHECK OPERATION.

\* Refer to aircraft manufacturer's data for airframe repair, if required.

**TABLE 2  
 TROUBLE-SHOOTING PROCEDURES**

<b>PROBLEM</b>	<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
PNEUMATIC CYLINDER DOES NOT OPEN DOOR	WORN CYLINDER	REPLACE IF PNEUMATIC CYLINDER DOES NOT HOLD DOOR OPENER.
BALL STUD LOOSE	COMPONENTS WORN	REPLACE AFFECTED COMPONENT(S)
	BALL STUD MOVES IN BRACKET	RETORQUE STUD FASTENER

**WEIGHT AND BALANCE DATA**

**NOTE:**

Each actuator cylinder weighs 0.5 pounds. Adjust aircraft weight and balance records when cylinders are removed or installed.

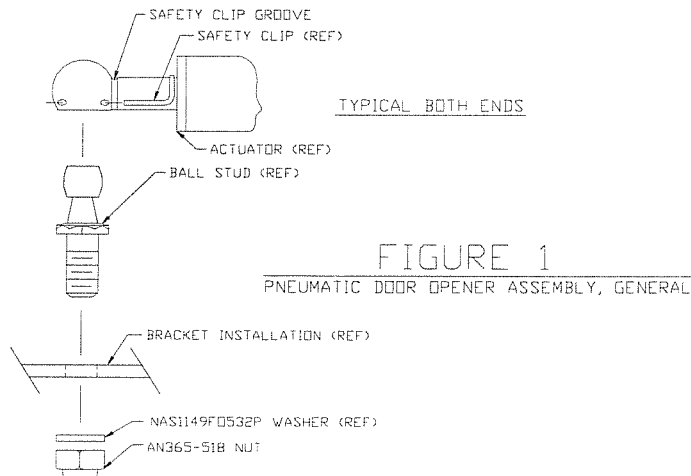
**TABLE 3  
 INSTALLATION DATA**

<b>DOOR</b>	<b>WT. (LB.)</b>	<b>F.S. (IN.)</b>	<b>B.L. (IN.)</b>
FWD LEFT INST'N.	0.75	54	- 26
FWD RIGHT INST'N.	0.75	54	+ 26
AFT LEFT INST'N.	1.0	84	- 26
AFT RIGHT INST'N.	1.0	84	+ 26



**Chapter 3; PARTS LISTING**

ITEM	NAME	LOCATION	NO. REQUIRED
ES39200-3	ACTUATOR	FWD DOORS; LEFT, RIGHT	1 EA. FWD DOOR
ES39200-1	ACTUATOR	AFT DOORS; LEFT, RIGHT	1 EA. AFT DOOR
ES39201-1	ROD END	EACH FWD DOOR	2
ES39202-1	SAFETYCLIP	1 EACH ACTUATOR ROD END	2 EA. ACTUATOR
07DA-300-1	BRACKET ASSEMBLY	AFT LEFT DOOR PANEL	1
07DA-300-2	BRACKET ASSEMBLY	AFT RIGHT DOOR PANEL	1
07DA-301-1	BRACKET ASSEMBLY	FWD LEFT DOOR PANEL	1
07DA-301-2	BRACKET ASSEMBLY	FWD RIGHT DOOR PANEL	1
07DA-301-3	BRACKET ASSEMBLY	AFT LEFT DOOR FRAME	1
07DA-301-4	BRACKET ASSEMBLY	AFT RIGHT DOOR FRAME	1
1624-0411	RIVET	BRACKETS INSTALLATIONS	36
CR3243-4-4	RIVET	BRACKETS INSTALLATIONS	8
AN365-518	NUT	FWD DOOR FRAME INST'N.	2
AN960-516L	WASHER	FWD DOOR FRAME INST'N.	4
SEALANT	MIL-S-8802F, CL B2 OR PROSEAL 890	SEAL UNDER BRACKETS	AS REQUIRED



### PDO CYLINDER REMOVAL, ORDER

- 1) Remove Safety Clips
- 2) Remove Cylinder from Ball Studs

### PDO CYLINDER INSTALLATION

- 1) Press cylinder rod ends over ball studs.
- 2) Insert safety clips through cylinder rod ends and snap into groves.

NOTE: Install the actuator with the cylinder rod attached to the door.

### BRACKET REPLACEMENT

- 1) Remove interior panels as required for access.
- 2) Remove the existing rivets and/or screws attaching the bracket.
- 3) Remove the bracket.
- 4) Clean the surface area where the bracket makes contact on the aircraft.
- 5) Match drill the new bracket to the existing holes in the aircraft.
- 6) Determine the exact size and length of the rivet if applicable for each hole. **Note: Oversized rivets may be required.**
- 7) Apply a thin coat of Pro-Seal to the contact surface of the bracket.
- 8) Attach the bracket using the required rivets and or screws.
- 9) Replace any interior panels that may have been removed.