



Transport  
Canada

Transports  
Canada

TP 14182  
(Revised 05/2005)

# Engine Logbook

## POWER SECTION MODULE LOG BOOK

SN 1248

N 919EA





Volume #: 1

Opened on: 23 MAY 2018

### ENGINE DETAILS

1. Manufacturer Pratt & Whitney Canada Corp.

2. Type/Model/Series E.T.C. E- 21 PT6A- 66D B/S: 1354

3. Serial Number PS- RV0597



# Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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**AVEX Inc.**

**C.R.S. X1IR595Y**

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205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

ENGINE Pratt & Whitney PT6A-66D

S/N RV0597

N919EA

Work Order: 15120

TTSN:

111.4

Date: 7/3/2019

Tach:

Hobbs: 111.4

TCSN: 111

TSO:

CSO:

1. Complied with First 100 Hour Inspection I.A.W. Daher MM Chapters 05-20-01 and 05-20-05 and Pratt & Whitney PT6A-66D MM, a list of owner denied discrepancies provided to the aircraft owner. All AD's checked through Revision 2019-13; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Performed pre-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
3. Complied with engine Periodic Inspection IAW Pratt & Whitney PT6A-66D MM Chapter 72-00-00 Table 601.
4. Complied with inspection of the fuel outlet filter for foreign matter or distortion I.A.W. Pratt & Whitney PT6A-66D MM Chapter 73. No defects noted.
5. Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.
6. Borescoped through the exhaust duct drain I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72 and found some minor spots of coked oil around the drain area and the drains are free at this time.
7. Oil sample sent to Jet Care for analysis I.A.W. Pratt and Whitney PT6A-66D MM 79.
8. Performed engine vibration analysis I.A.W the Micro Vibe II Instructions. IPS: 0.014 @ RPM: 1880.
9. Borescoped the engine first stage compressor blades post maintenance I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72. No changes noted between pre and post maintenance inspections.

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**C.R.S. X1IR595Y**

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205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

ENGINE Pratt & Whitney PT6A-66D

S/N RV0597

N919EA

Work Order: 15120

TTSN:

111.4

Date: 7/3/2019

Tach:

Hobbs: 111.4

TCSN: 111

TSO:

CSO:

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 15120.

*K.R. [Signature]*



07/03/19

Date

(LBID:15569)

For: FAA Approved Repair Station # X1IR595Y



Signature

AME  
ACA/AMO  
SCA/AMO

AVEX Inc.

C.R.S. X1IR595Y

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205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

ENGINE Pratt &amp; Whitney PT6A-66D

S/N RV0597

N919EA

Work Order: 15323

TTSN:

135.4

Date: 9/19/2019

Tach:

Hobbs: 135.4

TCSN:

134

TSO:

CSO:

1. Complied with an "A" inspection plus Annual I.A.W. Daher MM Chapters 05-20-02 and 05-20-05 and Pratt & Whitney PT6A-66D MM. All AD's checked through revision 2019-19; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Performed pre-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
3. Complied with the annual or 200 hour engine periodic inspection I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72-00-00 Table 601.
4. Complied with inspection of the fuel outlet filter for foreign matter or distortion I.A.W. Pratt and Whitney PT6A-66D MM Chapter 73. No defects noted.
5. Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.
6. Oil sample sent to Jet Care for analysis I.A.W. Pratt and Whitney PT6A-66D MM 79.
7. Performed engine vibration analysis I.A.W. the Micro Vibe II Instructions. IPS: 0.167, RPM: 1980.
8. Borescoped through the exhaust duct drain I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72 and found some minor spots of coked oil around the drain area and the drains are free at this time.
9. Borescoped the engine first stage compressor blades post maintenance I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72. No changes noted between pre and post maintenance inspections.
10. Checked accuracy of ITT system, trim probe and T5 harness. All systems were found within tolerances per Pratt and Whitney PT6A-66D MM Chapter 77. Inspected bleed air lines and fittings for security and leaks in the engine compartment. All connections found secured with no visual indication of any bleed air leaks.

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C.R.S. X1IR595Y

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205 Durley Avenue, Suite A, Camarillo, CA 93010 (805) 389-1188 FAX (805) 389-3323

ENGINE Pratt &amp; Whitney PT6A-66D

S/N RV0597

N919EA

Work Order: 15323

TTSN:

135.4

Date: 9/19/2019

Tach:

Hobbs: 135.4

TCSN:

134

TSO:

CSO:

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 15323.

(LBID:15845)

For: FAA Approved Repair Station # X1IR595Y



# Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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**AVEX, Inc.**

**C.R.S. X11D595Y**

Page 1 of 2

11804 Corporate Way Broomfield, CO 80021 (720) 399-8008 Fax: (720) 541-9001

ENGINE Pratt & Whitney PT6A-66D S/N RV0597 N919EA  
 Work Order: 16150 TTSN: 253.7 Date: 9/24/2020  
 Tach: Hobbs: 253.7 TCSN: 259 TSO: CSO:

1. Complied with a "B" Inspection plus Annual I.A.W. Daher MM Chapters 05-20-03 and 05-20-05 and Pratt & Whitney PT6A-66D. All AD's checked through revision 2020-19; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Performed pre-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
3. Complied with the annual or 200 hour engine periodic inspection I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72-00-00 Table 601. Complied with engine oil analysis kit S/N #360404 and sent out for analysis to Pratt and Whitney.
4. Complied with inspection of the fuel outlet filter for foreign matter or distortion I.A.W. Pratt and Whitney PT6A-66D MM Chapter 73. No defects noted.
5. Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.
6. Borescoped through the exhaust duct drain I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
7. During pre-maintenance borescope of first stage compressor, found multiple blades with contact points. Performed blend of first stage compressor I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
8. During torque limiter check, torque was found high at 111%. Adjust to 107% +/- 2%. Adjusted torque limiter I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71. Performed torque limiter check after adjustment and torque is within limits at 107%. All work completed I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.
9. Oil scavenge tubes are leaking. Removed and replaced o-rings I.A.W. Pratt and Whitney PT6A-66D MM Chapter 79. Leak checks good.
10. Both left hand and right hand engine ignitors are worn to limits and measure 0.300" ID. Limit is 0.300" ID. Removed and replaced ignitors with new I.A.W. Pratt and Whitney PT6A-66D MM Chapter 74.

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**C.R.S. X11D595Y**

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11804 Corporate Way Broomfield, CO 80021 (720) 399-8008 Fax: (720) 541-9001

ENGINE Pratt & Whitney PT6A-66D S/N RV0597 N919EA  
 Work Order: 16150 TTSN: 253.7 Date: 9/24/2020  
 Tach: Hobbs: 253.7 TCSN: 259 TSO: CSO:

11. Owner reports propeller RPM at cruise is low at 1990. Adjusted governor screw I.A.W. Pratt & Whitney PT6A-66D MM Chapter 71. Cruise is at 2010 RPM.
12. Np was low at cruise and in the climb (1990 rpm MxCr and 1950 rpm in the climb). Adjusted cruise RPM from 1990 to 2010 RPM I.A.W. Pratt & Whitney PT6A-66D MM Chapter 71.
13. Performed engine vibration analysis (reference WO 16150 for results of analysis). Completed I.A.W. Dynamic Solutions System MicroVibe II Users Manual 1013.
14. Performed post-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
15. During test flight, pro pilot flew into smoke column. After borescope inspection of first stage compressor blades, found film. Engine requires compressor wash. Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. 16150.

*[Signature]* 

09/24/20

Date

(LBID:17092)

For: FAA Approved Repair Station C.R.S. X11D595Y



Signature

AME  
ACA/AMO  
SCA/AMO

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C.R.S. X11D595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N919EA

Work Order No: MXCO257

October 21, 2021

Engine MFR: Pratt & Whitney  
HOBBS: 390.5

TSN: 390.5

Model: PT6A-66D  
TSO:

CSN: 441

SN: RV0597  
CSO:

1. Complied with an "A" inspection plus annual in reference to Daher MM Chapter 05-20-02, 05-20-05, and Pratt and Whitney MM for the PT6A-66D. All AD's checked through revision 2021-21; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.
2. Complied with hot section inspection by the removal of the following hot section components: outer liner P/N 3127192-01B, S/N RWA37F714, inner liner P/N 3116790-1, S/N RWA44F981, CT disc assembly P/N 3053740-01, S/N YUAB001K880, small exit duct P/N 3040931, S/N PDAMBX7R0 and sent to Pratt and Whitney per APO 225881 for inspection. Installed serviceable outer liner P/N 3127192-01B, S/N RWA37F714, serviceable inner liner P/N3116790-1, S/N RWA44F981, repaired CT disc assembly P/N 3053975-01, S/N YUAB001K880, repaired small exit duct P/N 3040931, S/N PDAMBX7R0, measured to required CT disc radial tip clearance of .018 - .019, installed inspected fuel nozzles P/N3119855-01, and sheaths, inspected PT housing, disc, inspected and tested T5 thermocouples and sensing system, inspected RGB oil strainer and chip detector. All work performed I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72-00-00, section 11.
3. Performed pre maintenance borescope of engine first stage compressor blades. All work performed I.A.W. Pratt & Whitney PT6A-66D MM Chapter 72.
4. Complied with annual inspection of the fuel outlet filter for foreign matter or distortion. All work performed I.A.W. Pratt & Whitney PT6A-66D MM Chapter 73. No defects noted.
5. Complied with the annual or 200 hour engine periodic inspection. All work performed I.A.W. Pratt & Whitney PT6A-66D MM Chapter 72-00-00 Table 601. Acquired engine oil sample S/N: 385117 for analysis I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
6. Complied with the 400 hour cleaning and flow check of the engine fuel nozzles per Dallas Airmotive PO RPR58195. Installed the aircraft fuel nozzles after cleaning and flow check. Installed the flow divider P/N 3023670 S/N M1014. All work performed I.A.W. Pratt & Whitney PT6A-66D MM Chapter 73. Operational and leak checks are good.
7. Complied with the 400 hour borescope inspection of the hot section. All work performed I.A.W. Pratt & Whitney PT6A-66D MM Chapter 72. No defects found at this time.
8. Performed partial blend of blades. All work performed I.A.W. Pratt and Whitney MM Chapter 72.
9. Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D MM Chapter 71.



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C.R.S. X11D595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N919EA

Work Order No: MXCO257

October 21, 2021

Engine MFR: Pratt & Whitney  
HOBBS: 390.5

TSN: 390.5

Model: PT6A-66D  
TSO:

CSN: 441

SN: RV0597  
CSO:

10. Adjusted eccentric screw on propeller governor performed ground run torque is now 31% with 1910 RPM max reverse passed at 301.4 SHP. All work completed I.A.W. Pratt & Whitney MM PT6-66D Chapter 71-00-00.
11. Adjusted torque limiter and performed ground function check torque is now at 110% and passed All work completed I.A.W. Pratt & Whitney MM PT6A-66D Chapter 71-00-00 pg. 523.
12. Performed engine vibration analysis (reference WO package for results of analysis). All work performed I.A.W. Dynamic Solutions System MicroVib II Users Manual 1013.
13. Performed post maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO257.



For: FAA Approved Repair Station C.R.S. X11D595Y

Date

10/21/21



# Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
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C.R.S. X11D595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N919EA

Work Order No: MXCO1123

November 3, 2022

Engine

MFR: Pratt & Whitney

Model: PT6A-66D

SN: RV0597

HOBBS: 508.70

TSN: 508.70

TSO:

CSN: 543.00

CSO:

1. Complied with a C inspection plus annual I.A.W. 14 CFR 91.409 and 14 CFR 43 Appendix D using the Daher MM Chapter 05-20-03, 05-20-05, and Pratt and Whitney PT6A-66D. All AD's checked through revision 2022-22; see AD compliance record provided with the airframe logbook.
2. Complied with the annual or 200 hour engine periodic inspection I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72-00-00 Table 601. Retrieved and sent out oil sample for analysis using kit P/N 3134819 S/N 12997.
3. Performed pre-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.
4. Complied with the 600 hour replacement of the engine high pressure fuel pump outlet filter with new and the 600 hour check and cleaning of the fuel pump inlet screen I.A.W. Pratt and Whitney PT6A-66D MM Chapter 73. Operational and leak checks good.
5. Complied with the CT disc desalination and compressor power recovery wash I.A.W. Pratt & Whitney PT6A-66D MM Chapter 71
6. Removed AGB tach generator, removed leaking garlock seal. Installed new garlock seal with new packing then reinstalled AGB tach gen with new gasket and new mounting hardware. Work done I.A.W Daher MM Chapter 77 and P&W PT6A-66D MM Chapter 71.
7. Removed mechanical fuel pump, removed leaking garlock seal. Installed new garlock seal with new packing then reinstalled the mechanical fuel pump with new mounting gasket. Work done I.A.W Daher MM Chapter 28 and P&W PT6A-66D MM Chapter 71.
8. Flight idle high, adjusted flight idle rigging to 71% Ng I.A.W Daher MM Chapter 71. Operational check good.
9. Removed oil sight glass and replaced mounting gasket. Work done I.A.W PW PT6A-66D MM Chapter 72.



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C.R.S. X11D595Y

11804 Corporate Way Broomfield, CO 80021 Phone: (720)399-8008 | Fax: (720) 541-9001

N919EA

Work Order No: MXCO1123

November 3, 2022

Engine

MFR: Pratt & Whitney

Model: PT6A-66D

SN: RV0597

HOBBS: 508.70

TSN: 508.70

TSO:

CSN: 543.00

CSO:

10. Performed engine vibration analysis (reference WO package for results of analysis). All work completed I.A.W. Dynamic Solutions System MicroVib II Users Manual 1013.
11. Performed post-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72. No changes noted between pre and post maintenance.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO1123.



11/3/22

For: FAA Approved Repair Station C.R.S. X11D595Y Date



1E  
AMO  
AMO

N919EA

Work Order No: MXCO2089

November 01, 2023

Engine MFR: Pratt & Whitney  
HOBBS: 579.40 TSN: 579.40

Model: PT6A-66D  
TSO:

CSN: 619.00

SN: RV0597

CSO:

Complied with an A inspection plus annual I.A.W. 14 CFR 91.409 and 14 CFR 43 Appendix D using the Daher MM Chapter 05-20-03, 05-20-05, and Pratt and Whitney PT6A-66D MM as guides. All AD's checked through revision 2023-22; see AD compliance record provided with the airframe logbook.

Complied with the annual or 200 hour engine periodic inspection I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72-00-00 Table 601. Retrieved and sent out oil sample for analysis using kit P/N 3134819 S/N 452409.

Performed pre-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72.

Complied with the C.T. disc desalination and compressor power recovery wash I.A.W. Pratt and Whitney PT6A-66D Chapter 71.

Removed oil sight glass gasket and installed new gasket P/N 3116682-01 I.A.W. Pratt and Whitney PT6A-66D MM 72-20-00. Leak check ok.

Performed engine vibration analysis (reference WO package for results of analysis). All work completed I.A.W. Dynamic Solutions System MicroVibe II Users Manual 1013.

Complied with inspection of the fuel outlet filter for foreign matter or distortion I.A.W. Pratt and Whitney PT6A-66D MM Chapter 73.

Performed post-maintenance borescope of engine first stage compressor blades I.A.W. Pratt and Whitney PT6A-66D MM Chapter 72. No changes noted between pre and post maintenance.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCO2089.

*[Signature]*



11/1/23

Signature

Date

For: FAA Approved Repair Station # C.R.S. X11D595Y

N919EA

Work Order No:

February 19, 2024

Engine MFR: Pratt & Whitney  
HOBBS: 592.8 TSN: 592.8

Model: PT6A-66D  
TSO:

CSN:

SN: RV0597

CSO:

Complied with AD 2024-04-51 by confirming no affected PT2 blades listed in table 1 of Pratt and Whitney SB A14574 are installed. All work performed I.A.W. FAA AD 2024-04-51, Transports Canada CF-2024-05, and Pratt and Whitney SB A14574. No further action required.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station.

*[Signature]*



2/19/24



Signature

Date

For: FAA Approved Repair Station # C.R.S. X11D595Y




Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
<b>ENTER</b>				POWER SECTION MODULE 1051

		 Leading the Business of Aviation		1 OF 1	
Registration	N919EA	Cutter Aviation San Antonio, Inc. 10440 John Cape Rd. San Antonio, Texas 78216 FAA Repair Station No. <b>U7TR491Y</b> Phone (210) 340-6780		Hour Meter	632.1
Model No	TBM 910			Total Time	632.1
Serial No.	1248			TSHSI	--
Engine M/N	PT6A-66D			ENG CSN	710
Engine S/N	PCE-RV0597			1 OF 1	

- | Engine S/N | PCE-RV0597  | Time (157) | Signature |
|------------|---|------------|-----------|
| •          | Inspected this engine using Daher TBM 910 AMM chapter 05-20-02 (standard program B insp), 05-20-05 (special checks) and Pratt & Whitney PT6A-66D AMM chapter 72-00-00, table 601 inspection checklist as a guide. |            |           |
| •          | 05-70-CA-890-801 Complied with <b>12 Month/200 Hour</b> engine minor inspection. REF PT6A -66D EMM. 72-00-00 Table 601.   |            |           |
| •          | 79-20-02-710-801 Complied with <b>12 Month/600 Hour</b> engine chip detectors operational test. Ops check good. Ref. PT6A-66D EMM. 72-00-00   |            |           |
| •          | 72-00-00 Complied with <b>400 hour</b> borescope inspection in conjunction with fuel nozzle clean and flow check. No defects noted at this time. Ref. PT6A-66D EMM 72-00-00.                                      |            |           |
| •          | 73-10-05-790-801 Complied with <b>400 hour</b> engine fuel nozzles cleaned and flow checked by Standard aero. Ref. PT6A-66D EMM. 73-11-00   |            |           |
| •          | 74-20-00-200-801 Complied with <b>400 hour</b> ignition exciter for installation and condition, ignition igniter cables for chafing, wear and installation. Ref. PT6A-66D EMM. 74-20-00.                          |            |           |
| •          | spark igniters for cleanliness, erosion and functional check No defects noted at this time. Ref. PT6A-66D EMM. 74-20-00.  |            |           |
| •          | 71-00-00 Complied with <b>200 hour</b> compressor wash/rinse and turbine rinse Ref. PT6A-66D EMM 71-00-00.  |            |           |

The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this station under **Work Order: 11M-7031**

Date:	02-03-2025	Authorized Signature:	
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[illegible]