



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

PMP

NMOL SEA FSDO

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9 for subsequent revision thereof for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268375	Nationality and Registration Mark USA N6594E
2. Owner	Name (As shown on registration certificate) Biel Aero Inc	Address (As shown on registration certificate) 1801 Weatherswood Dr NW Gig Harbor, WA 98335-7878

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Tosch Aircraft Inc Eric Wheaton 1108 26th Ave NW Gig Harbor, WA 98335	<input checked="" type="checkbox"/> U.S. Certified Mechanic	263456696-AP
	<input type="checkbox"/> Foreign Certified Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date Feb 20, 2006	Signature of Authorized Individual Eric Wheaton
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection Feb 20, 2006		Certificate or Designation No. 263456696 APIA		Signature of Authorized Individual Eric Wheaton	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N6594E

1. Installed JPI gravity fed fuel scan instrument model number FS-450 serial number 07923 located on right co-pilot instrument panel (below engine gauges) at station 16.5" in accordance with (FAA APPROVED) JPI installation manual report # 400 dated 08/09/2002 Rev A per STC #SA00861SE item 44.
2. Installed new fuel flow transducer (gravity FXT-231 style) in accordance with JPI installation manual report # 503 dated 03/14/1997 Rev B per STC #SA00432SE.
3. Installed 1AMP circuit breaker and wired to the avionic master switch buss bar as per AC43.13-1B chapter 11 sections 3 (11-32) (11-36), 4 (11-49) (table 11-3 page 11-15) (figure 11-2 page 11-30) and per the JPI installation manual report #400.
4. Installed all required placards as per the installation manuals.
5. Added the continued airworthiness instructions to the aircraft records.
6. Added the JPI operating supplement to the flight manual.
7. Revised the aircraft weight & balance and equipment list.

***** NOTHING FOLLOWS *****

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No 2120-0020

For FAA Use Only

Office Identification

MEM

SEA F800

INSTRUCTIONS Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make CESSNA	Model 182R
	Serial No 182 68375	Nationality and Registration Mark USA N6594E
2. Owner	Name (As shown on registration certificate) BIEL AERO Inc.	Address (As shown on registration certificate) 1801 Weatherswood Dr. NW Gig Harbor, Wash. 98335

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Olympia Avionics Inc. 7708 Henderson Blvd. Olympia, Wash. 98501	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. GC6R556N R1,R2,R3
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I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 9/1/01	Signature of Authorized Individual Thomas M. Leal
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 9/01/01		Certificate or Designation No. GC6R556N	Signature of Authorized Individual Thomas M. Leal	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installation of STEC Model System 30 two Axis Autopilot as per STC #SA09262AC-D. The system has been functionally tested in accordance with above documents to ensure proper operation and that there is no interference with existing aircraft systems.

The weight and balance for this aircraft has been amended to reflect this installation. Instructions for continued Airworthiness. Follow all inspection and Maint. Instructions detailed in Document 81221.

NOTHING FOLLOWS

☐ Additional Sheets Are Attached



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification **MCM**
SEA FSDO

INSTRUCTIONS Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421) Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make CESSNA	Model 182R
	Serial No 182 68375	Nationality and Registration Mark USA N6594E
2. Owner	Name (As shown on registration certificate) BIEL AERO Inc.	Address (As shown on registration certificate) 1801 Weatherswood Dr. NW Gig Harbor, Wash. 98335

THE DATA/REVISION IDENTIFIED HEREIN COMPLIES WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.7.

3. For FAA Use Only

9/12/2001 Thomas M. Deal
Date FAA Inspector NM-FSDO/01

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Olympia Avionics Inc. 7708 Henderson Blvd. Olympia, Wash. 98501	<input type="checkbox"/> U.S. Certificated Mechanic	GC6R556N R1,R2,R3
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/> Certificated Repair Station	
	Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 9/02/01	Signature of Authorized Individual <u>Thomas M. Deal</u>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection 9/12/2001	Certificate or Designation No. GC6R556N	Signature of Authorized Individual <u>Thomas M. Deal</u>
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

GPS System approved for VFR.

1. Installed Garmin GPS 150 GPS Receiver according to Garmin Installation Manual number 190-00026-00 Rev L.
2. Provided power to the GPS from the Avionics buss(28) through a 3 amp circuit breaker mounted on the aircraft breaker panel lower center of instrument panel.
3. Installed the GPS 150 in the airframe manufacturer provided instrument panel as per Garmin installation manual part # 190-00026-00 Rev L.
4. Installed the GA56 GPS antenna on the top of the fuselage at FS 44 using the existing antenna mounting provisions and as per Garmin Installation manual part #190-00094-00 Rev.C.
5. The structural mounting of the GPS equipment is sufficient to insure the restraint of the equipment when subjected to emergency landing loads appropriate to the aircraft category and FAA AC 43.13-2A chapter 1, paragraph 1, 2. and 3.
6. The GPS is not connected to an external CDI. The GPS is connected to an STEC System 30 Autopilot. See attached drawing.
7. Instructions for Continued Airworthiness: Follow all Manufacturer's Inspections and Maintenance Instructions.
8. Ground Test checklist attached.
9. Installed a placard adjacent to GPS 150 Receiver stating "GPS LIMITED TO VFR USE ONLY". Aircraft equipment list amended. Weight and Balance corrected and made Aircraft log entry.

NOTHING FOLLOWS

☐ Additional Sheets Are Attached



U.S. Department
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Administration

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(Airframe, Powerplant, Propeller, or Appliance)

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SEA-FSDO

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268375	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) WASHINGTON STATE PATROL	Address (As shown on registration certificate) 7525 OLD HWY 99 OLYMPIA, WA 98501

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
GARY BADE WASHINGTON STATE PATROL 7525 OLD HWY 99 OLYMPIA, WA 98501	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	A&P532580469
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 06/29/01	Signature of Authorized Individual <i>Gary Bade</i>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 06/29/01		Certificate or Designation No. 532580469IA		Signature of Authorized Individual <i>Gary Bade</i>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. THE FOLLOWING EQUIPMENT OR ALTERATIONS THAT WERE INSTALLED ON FAA FORM 337 HAVE BEEN REMOVED:

1. EXHAUST STACK TO MUFFLER JOINT ALTERATION DATED, 07/21/99

2. MUFFLER OUTLET EXTENSION DATED, 02/06/92

3. RYAN TCAD AT8800 REMOVED DATED, 01/11/94

4. WOLFSBERG RT9600 REMOVED DATED, 02/03/84

EQUIPMENT LIST AND WEIGHT AND BALANCE UPDATED TO REFLECT THIS CHANGE.

***** End Report *****

☐ Additional Sheets Are Attached



U.S. Department
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Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification *MEM*
SEA FSDO

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make CESSNA	Model 182R
	Serial No. 18268375	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) WASHINGTON STATE PATROL	Address (As shown on registration certificate) 7525 OLD HWY 99 <i>Olympia, WA 98501</i>

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

RECEIVED
OCT 20 1999
SEATTLE FSDO-AW

6. Conformity Statement

A. Agency's Name and Address CHRIS MARSH WASHINGTON STATE PATROL 7525 OLD HWY 99 OLYMPIA, WASH 98501	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. A&P 533523077IA
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 10-15-99	Signature of Authorized Individual <i>Chris Marsh</i>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 10-15-99		Certificate or Designation No. 533523077IA		Signature of Authorized Individual <i>Chris Marsh</i>	

NOTICE
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
1. INSTALLED MODEL P-1000 ELECTRONIC TACH PER INSTRUCTIONS OF STC #SA5822NM HORIZON INSTRUMENTS INC.

2. EQUIPMENT LIST AND WEIGHT AND BALANCED UPDATED AS NEEDED.
*****End*****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

589-5500

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268475	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) WASHINGTON STATE PATROL	Address (As shown on registration certificate) 7525-A OLD HWY 99 OLYMPIA

3. For FAA Use Only

4. Unit Identification

5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address GARY BADE WASHINGTON STATE PATROL 7525 OLD HWY 99 OLYMPIA, WA 98501	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. A&P 532580469
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D. I certify that the repair and/or alteration made to the unit(s) identified in Item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date
07-21-1999

Signature of Authorized Individual

Gary Bade

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in Item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 07-21-1999		Certificate or Designation No. 532580469A	Signature of Authorized Individual <i>Gary Bade</i>		

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

NOTICE

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. IN ORDER TO IMPROVE THE EXHAUST STACK TO MUFFLER JOINT AND ELIMINATE EXHAUST GAS LEAKAGE AND CORROSION, AND IMPROVE JOINT SECURITY.

2. REMOVED LEFT AND RIGHT UPPER AND LOWER EXHAUST CLAMPS P/N 0750161-24,22 AND ATTACHING HARDWARE.

3. INSTALLED FOUR NEW FLANGES, TWO LEFT AND TWO RIGHT, AEROCOUP STAINLESS STEEL AIRCRAFT P/N 00624-MFF61196-275S, ONE FLANGE ON EACH LEFT AND RIGHT EXHAUST STACK AND ONE FLANGE ON THE LEFT AND RIGHT END OF THE MUFFLER INLETS, BY WELDING. THE LEFT AND RIGHT FLANGE JOINTS SECURED WITH AEROCOUP STAINLESS STEEL AIRCRAFT V-BAND CLAMPS P/N U4398S-3-464.

4. ALL WORK DNE IN ACCORDANCE WITH FAR 23.1123 A,B,C; FAR 23.1301 A,B,C,D; AND AC43.13-1A CHANGE 3, PAR.68 A,B,C,D,E,F AND H.
THIS DATA MAY BE USED AS APPROVED DATA WHEN: (1) THE USER HAS DETERMINED THAT IT IS APPROPRIATE TO THE PRODUCT BEING REPAIRED; (2) DIRECTLY APPLICABLE TO THE REPAIR BEING MADE; AND (3) NOT CONTRARY TO MANUFACTURES DATA.

5. WEIGHT AND BALANCE NOT AFFECTED BY THIS MODIFICATION.
*****End*****

☐ Additional Sheets Are Attached

CLR-

RECEIVED

JUN 10 1999

Approved
OMB No. 2120-0020

For FAA Use Only

Off-air Identification

SEA-FSD 0



MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

SEATTLE FSD

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268475	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) Washington State Patrol	Address (As shown on registration certificate) 7525-A Old Hwy 99 Olympia, Wa 98501

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Gary Bade Washington State Patrol 7525 Old Hwy 99 Olympia, Wa 98501	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. A&P 532580469
--	--	-------------------------------------

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 06-04-1999	Signature of Authorized Individual <i>Gary Bade</i>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 06-04-1999		Certificate or Designation No. 532580469 IA	Signature of Authorized Individual <i>Gary Bade</i>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed original left and right front engine mount spacers.
2. Installed new engine mount spacers, Cessna P/N 125100-17 and gussets P/N 0751003-27.
3. Spacer/gusset installation accomplished by welding in accordance with AC 43.13-1A Change 3, Section 2 Par 68a, (1) b,c,d,e,f and h. This data is appropriate to the product being repaired; (2) is directly applicable to the repair being made; and (3) is not contrary to the manufacturer's data.
4. Weight and balance unchanged.

*****End*****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

589-F5800

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268475	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) Washington State Patrol	Address (As shown on registration certificate) 7525-A Old Hwy 99 Olympia, Wa 98501

3. For FAA Use Only

4. Unit Identification

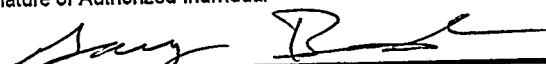
5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in item 1 above) ~~~~~			X	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

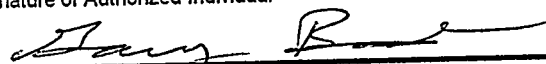
A. Agency's Name and Address Gary Bade Washington State Patrol 7525 Old Hwy 99 Olympia, Wa 98501	B. Kind of Agency	C. Certificate No. A&P 532580469
	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 06-04-1999	Signature of Authorized Individual 
--------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 06-04-1999		Certificate or Designation No. 532580469 IA	Signature of Authorized Individual 		

NOTICE
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Repaired corrosion damage to engine mount lower right hand diagonal support tube, by using welded sleeve
I.A.W. 43.13 1A Change 3 Par 71 and Fig 2.5. Sleeve fabricated from 4130 chromemoly 1" OD X .058 X 10" tube.
Repair accomplished in accordance with AC 43.13 1A Change 3 Par 68 a,b,c,d,e,f,h Par 70 a,b,d and Par 71. This data
is appropriate to the product being repaired; (2) is directly applicable to the repair being made; and (3) is not contrary to
the manufacturer's data.

2. Weight and balance unchanged.

*****End*****

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

289-1500

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make CESSNA	Model 182R
	Serial No. 18268375	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) WASHINGTON STATE PATROL	Address (As shown on registration certificate) 7525 OLD HWY 99 OLYMPIA, WASH. 98501

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address CHRIS MARSH WASHINGTON STATE PATROL 7525 OLD HWY 99 OLYMPIA, WASH 98501	B. Kind of Agency	C. Certificate No.
	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	A&P533523077IA
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certified Repair Station	
	Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 9-24-98	Signature of Authorized Individual <i>Christopher D Marsh</i>
-----------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is

☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 9-24-98		Certificate or Designation No. 533523077IA	Signature of Authorized Individual <i>Christopher D Marsh</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. REMOVED 95 AMP ALTERNATOR, PN E3FF10300AA; REPLACED WITH 70 AMP ALTERNATOR, PN F324R. P/N # 1300182-1633
2. REMOVED 100 AMP BREAKER, M PN S2326-2; INSTALLED 60 AMP BREAKER, PN S1232-60 PER ALTERNATOR MANUFACTURER INSTRUCTIONS.
3. EQUIPMENT WEIGHT AND BALANCE UPDATED.

*****End*****

☐ Additional Sheets Are Attached



APPLICATION FOR AIRWORTHINESS CERTIFICATE

INSTRUCTIONS — Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.

I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N6594E	2. AIRCRAFT BUILDER'S NAME (Make) Cessna	3. AIRCRAFT MODEL DESIGNATION 182 R	4. YR MFR 1984	FAA CODING 2072731
	5. AIRCRAFT SERIAL NO 18268375	6. ENGINE BUILDER'S NAME (Make) Continental	7. ENGINE MODEL DESIGNATION O-470-U		17026
	8. NUMBER OF ENGINES 2	9. PROPELLER BUILDER'S NAME (Make) McCawley	10. PROPELLER MODEL DESIGNATION C2A34C 204-B		11. AIRCRAFT IS (Check if applicable) <input type="checkbox"/> IMPORT

II. CERTIFICATION REQUESTED	APPLICATION IS HEREBY MADE FOR: (Check applicable items)															
	A	1	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)				NORMAL	UTILITY	ACROBATIC	TRANSPORT	GLIDER	BALLOON				
	B	SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)														
		2	LIMITED													
		5	PROVISIONAL (Indicate class)				1	CLASS I								
							2	CLASS II								
		3	RESTRICTED (Indicate operation(s) to be conducted)				1	AGRICULTURE AND PEST CONTROL		2	AERIAL SURVEYING		3	AERIAL ADVERTISING		
							4	FOREST (Wildlife conservation)		5	PATROLLING		6	WEATHER CONTROL		
		4	EXPERIMENTAL (Indicate operation(s) to be conducted)				7	CARRIAGE OF CARGO					0	OTHER (Specify)		
							1	RESEARCH AND DEVELOPMENT		2	AMATEUR BUILT		3	EXHIBITION		
						4	RACING		5	CREW TRAINING			MKT SURVEY			
						0	TO SHOW COMPLIANCE WITH FAR									
	8	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)				1	FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE									
						2	EVACUATE FROM AREA OF IMPENDING DANGER									
						3	OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT									
						4	DELIVERING OR EXPORT		5	PRODUCTION FLIGHT TESTING						
						6	CUSTOMER DEMONSTRATION FLIGHTS									
C	6	MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE "Restricted Operation" and "Standard" or "Limited," as applicable)														

III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration)										
	NAME Washington State Patrol					ADDRESS 7525-A Old Hwy 99, Olympia, Wa 98501					
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)										
	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.) 3413 Rev 51					AIRCRAFT LISTING (Give page number(s))					
	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.) 3413 Rev 51					AIRCRAFT LISTING (Give page number(s))					
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	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.) 3413 Rev 51					AIRCRAFT LISTING (Give page number(s))					
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS											
CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173. <input checked="" type="checkbox"/>					TOTAL AIRFRAME HOURS 10592.0			EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) 3			
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested											
DATE OF APPLICATION 2-13-97					NAME AND TITLE (Print or type) GARY RADE - Jet Aircraft Tech			SIGNATURE <i>[Signature]</i>			

IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete this section only if FAR 21.183(d) applies)												
	2	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)				3	CERTIFICATED MECHANIC (Give Certificate No.)				6	CERTIFICATED REPAIR STATION (Give Certificate No.)	
	5	AIRCRAFT MANUFACTURER (Give name of firm)											
	DATE		TITLE				SIGNATURE						

V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks in items A and B)										
	A. I find that the aircraft described in Section I or VII meets requirements for										
	THE CERTIFICATE REQUESTED										
	AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE										
	B. Inspection for a special flight permit under Section VII was conducted by.										
DATE		DISTRICT OFFICE			DESIGNEE'S SIGNATURE AND NO			FAA INSPECTOR'S SIGNATURE			
					4			1			

VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST		VIII. AIRWORTHINESS DOCUMENTATION <small>(FAA use only)</small>							
F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.41 as applicable</td> <td style="width:50%;"><input checked="" type="checkbox"/> B. Current Operating Limitations Attached</td> </tr> <tr> <td><input checked="" type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)</td> <td><input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft</td> </tr> <tr> <td><input checked="" type="checkbox"/> E. Major Repair and Alteration, FAA Form 337 (Attach when required)</td> <td><input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records</td> </tr> </table>		<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.41 as applicable	<input checked="" type="checkbox"/> B. Current Operating Limitations Attached	<input checked="" type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	<input checked="" type="checkbox"/> E. Major Repair and Alteration, FAA Form 337 (Attach when required)	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records
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<input checked="" type="checkbox"/> E. Major Repair and Alteration, FAA Form 337 (Attach when required)	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records								
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">DATE</td> <td colspan="2" style="text-align: center;">NAME AND TITLE (Print or type)</td> <td colspan="2" style="text-align: center;">SIGNATURE</td> </tr> </table>		DATE		NAME AND TITLE (Print or type)		SIGNATURE	
DATE		NAME AND TITLE (Print or type)		SIGNATURE					
D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">PILOT</td> <td style="width:25%;">CO-PILOT</td> <td style="width:25%;">NAVIGATOR</td> <td style="width:25%;">OTHER (Specify)</td> </tr> </table>		PILOT	CO-PILOT	NAVIGATOR	OTHER (Specify)		
PILOT	CO-PILOT	NAVIGATOR	OTHER (Specify)						
C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">VIA</td> <td style="width:50%;">DEPARTURE DATE</td> </tr> <tr> <td style="width:50%;">FROM</td> <td style="width:50%;">TO</td> </tr> <tr> <td colspan="2" style="text-align: center;">DURATION</td> </tr> </table>		VIA	DEPARTURE DATE	FROM	TO	DURATION	
VIA	DEPARTURE DATE								
FROM	TO								
DURATION									
B. DESCRIPTION OF FLIGHT		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">REGISTERED OWNER</td> <td style="width:50%;">ADDRESS</td> </tr> <tr> <td style="width:50%;">BUILDER (Make)</td> <td style="width:50%;">MODEL</td> </tr> <tr> <td style="width:50%;">SERIAL NUMBER</td> <td style="width:50%;">REGISTRATION MARK</td> </tr> </table>		REGISTERED OWNER	ADDRESS	BUILDER (Make)	MODEL	SERIAL NUMBER	REGISTRATION MARK
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BUILDER (Make)	MODEL								
SERIAL NUMBER	REGISTRATION MARK								
A. DESCRIPTION OF AIRCRAFT		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">DATE OF APPLICATION</td> <td colspan="2" style="text-align: center;">NAME AND TITLE (Print or type)</td> <td colspan="2" style="text-align: center;">SIGNATURE</td> </tr> </table>		DATE OF APPLICATION		NAME AND TITLE (Print or type)		SIGNATURE	
DATE OF APPLICATION		NAME AND TITLE (Print or type)		SIGNATURE					
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PRODUCTION BASIS (Check applicable item)</td> <td style="width:50%;">TYPE CERTIFICATE ONLY</td> </tr> <tr> <td style="width:50%;">APPROVED PRODUCTION INSPECTION SYSTEM</td> <td style="width:50%;">APPROVED PRODUCTION INSPECTION SYSTEM</td> </tr> </table>		PRODUCTION BASIS (Check applicable item)	TYPE CERTIFICATE ONLY	APPROVED PRODUCTION INSPECTION SYSTEM	APPROVED PRODUCTION INSPECTION SYSTEM		
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NAME	ADDRESS								
A. MANUFACTURER		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">NAME</td> <td style="width:50%;">ADDRESS</td> </tr> </table>		NAME	ADDRESS				
NAME	ADDRESS								

G. Statement of Conformity, FAA Form 8130-9 (Attach when required)

H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)

I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.183 (a) (Original Attached)

J. Current Airworthiness Certificate Issued in Accordance with FAR 21.191 (a) (Copy attached)

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
SPECIAL AIRWORTHINESS CERTIFICATE

A	CATEGORY/DESIGNATION EXPERIMENTAL	
	PURPOSE RESEARCH AND DEVELOPMENT	
B	MANUFACTURER	NAME N/A
		ADDRESS N/A
C	FLIGHT	FROM N/A
		TO N/A
D	N— 6594E	SERIAL NO. 18268375
	BUILDER CESSNA	MODEL 182R
E	DATE OF ISSUANCE MARCH 24, 1997	
	EXPIRY MAY 31, 1997	
	OPERATING LIMITATIONS DATED 03-24-97 ARE A PART OF THIS CERTIFICATE	
	SIGNATURE OF FAA REPRESENTATIVE CHARLES L. REYNOLDS	DESIGNATION OR OFFICE NO. SEA-FSDO

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.



U.S. Department
of Transportation
**Federal Aviation
Administration**

Flight Standards District Office

1601 Lind Ave. SW
Suite 260
Renton, Washington 98055-4055
(206) 227-2884, Fax: (206) 227-1810
1-800-354-1940

EXPERIMENTAL OPERATING LIMITATIONS FOR RESEARCH & DEVELOPMENT

REG. NO.
N6594E

MAKE:
CESSNA

MODEL:
182R

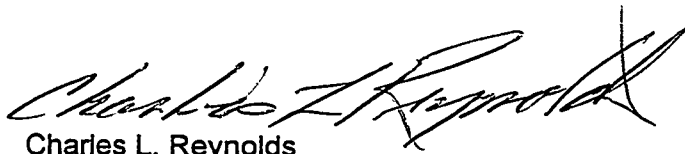
SERIAL NO:
18268375

THESE OPERATING LIMITATIONS SHALL BE ACCESSIBLE TO THE PILOT

1. No person may operate this aircraft for other than the purpose(s) of R&D to accomplish the tests outlined in the applicant's program letter, dated 02-13-97, describing compliance with Federal Aviation Regulation (FAR) 21.193(d), and made available to the pilot in the aircraft. Additionally, this aircraft shall be operated in accordance with applicable air traffic and general operating rules of FAR 91, and all additional limitations herein prescribed under the provisions of FAR 91.319(e).
2. All flights shall be conducted within the geographical area described as follows:
THE STATE OF WASHINGTON .., avoiding congested airways,
airport traffic areas and densely populated areas.
3. Day VFR operation only is authorized ~~ed~~
4. No person may be carried in this aircraft during flight unless that person is required for the purpose of the flight.
5. This aircraft shall contain the placards, markings, etc. (or other operating instructions developed for an STC modification), required by FAR 91.9)
6. This aircraft is prohibited from acrobatic flight; that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, or abnormal acceleration not necessary for normal flight.
7. The cognizant FAA Flight Standards District Office must be notified and their response received, in writing, prior to flying this aircraft after incorporating a major change, as defined by FAR 21.93.
8. If aircraft, engine, or propeller operating limitations are exceeded, an appropriate entry will be made in the historical records.

9 The Special Airworthiness Certificate and these Operation Limitations shall expire on:
05-31-97.

10 The word "Experimental" shall be displayed in accordance with FAR 45.23.

A handwritten signature in cursive script, appearing to read "Charles L. Reynolds". The signature is written in dark ink and is positioned above the printed name and title.

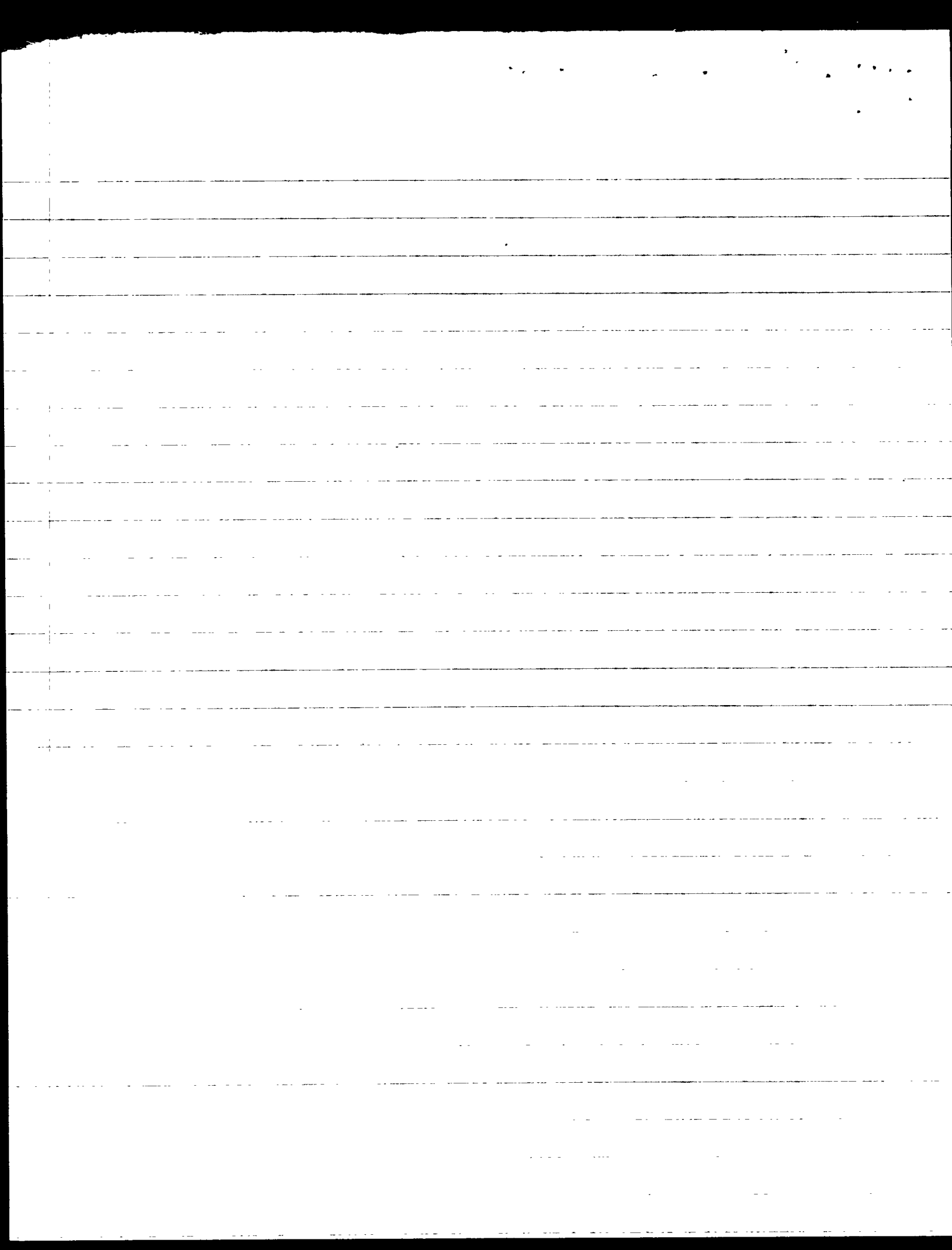
Charles L. Reynolds
Principal Maintenance Inspector

Date issued: March 24, 1997

Proposed Exhaust System Mod.

1. Install Existing Cessna Muffler Reversed (Left for Right) And Rotated, To Position Muffler Outlet on The Left Side And In Alignment of New Exhaust System.
2. Modify Original muffler Shroud For Left Hand Outlet Pipe, Retaining All Other Shroud Fittings In Their Original Configuration.
3. Fabricate Exhaust Pipe with Bellows Fitting, To Connect Original muffler Outlet To Added Carbon Fiber Muffler, Through The Left Cowl Flap Opening. Exhaust Pipe Constructed Using 3.00 O.D. x .035 W M.L.-T 6737C T321 Stainless Tubing (Same As OEM muffler Outlet) And A Walco 3.00 OD Exhaust Bellows. Exhaust Pipe Connected To Original muffler Outlet By Welding And to The Added Carbon Fiber Muffler By A Stainless Exhaust Clamp.
4. Fabricate 31" Muffler Extension Pipe Out of Same Material As The muffler to muffler Exhaust Pipe. Connected to The Outlet of The Added Carbon Fiber Muffler with Stainless Exhaust Clamp.
5. Fabricate Two Exhaust System ~~to~~ Airframe Mounts From .060 Type 316 Stainless Steel And Cessna P/N J14290-4 H. temp Load Vibration Mounts.
6. Install The Two Fabricated Mounts, One Each At Station #28 And Station #56.70 By Removing Existing #6 Rivets 3 At Each Location And Installing Brackets With AN3 Bolts And Lock Nuts Through Removed Rivet Holes.

7. Remove Belly Strobe (Due Exhaust Mod Interference)
And Install Blanking Plate.
8. Install New Exhaust System using AN Hardware
9. Patch Original Muffler Outlet Hole On Right Hand
Lower Engine Cowling.
10. Rig Left Hand Cowl Flap To maintain Clearance
With Exhaust System And Engine Cooling Airflow
Control

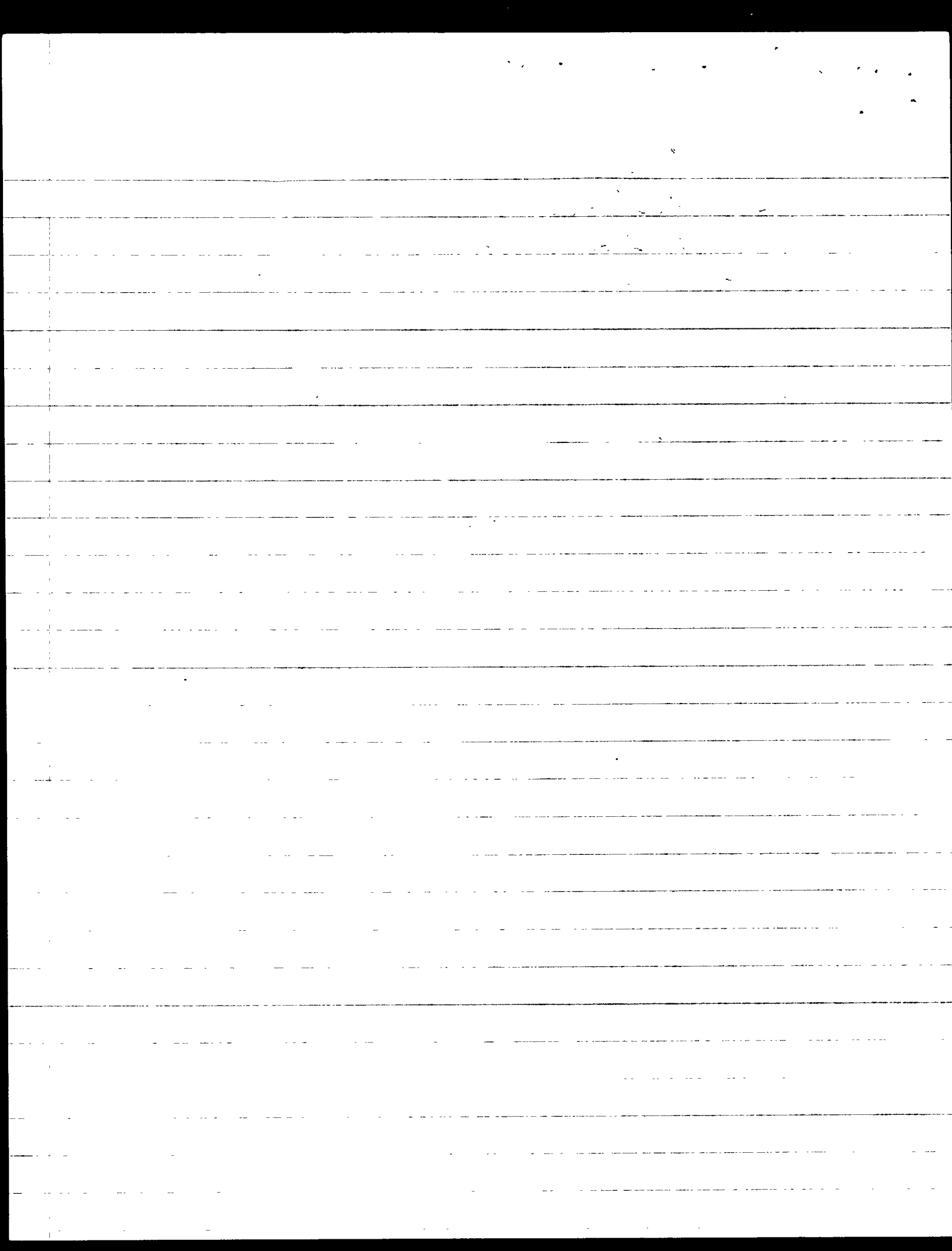


1. We (Washington State Patrol Aviation Section) wish to place Cessna N6594E 182R SN18268375 in Experimental Category for the purpose of research and development to test muffler and Exhaust system modification (Described in following documents). Exhaust System modification is for the purpose of noise reduction.
2. We wish to conduct approximately 8 flights with a total duration of 10 flight hours, for the Purpose of Testing Mechanical Integrity, Flight Characteristics and Function and reliability of Exhaust System modification. Flight Testing To Be Performed Day VFR over Sparsely Populated Areas within a 50 NM Radius of Olympia Airport with Required Flight Crew Only.

By Routing New Exhaust System Out The Left Cowl Flap. 2. Locates it Away From The Fuel Staining Fuel Line Ext. That Are On The Right Side

2. Aliviates The Necessity Of Removing The Exhaust System In Order To Remove The Lower Cowl

3. Removes The Airloads To The External Exhaust System



UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N6594E	Cessna 182R	18268375	Normal

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

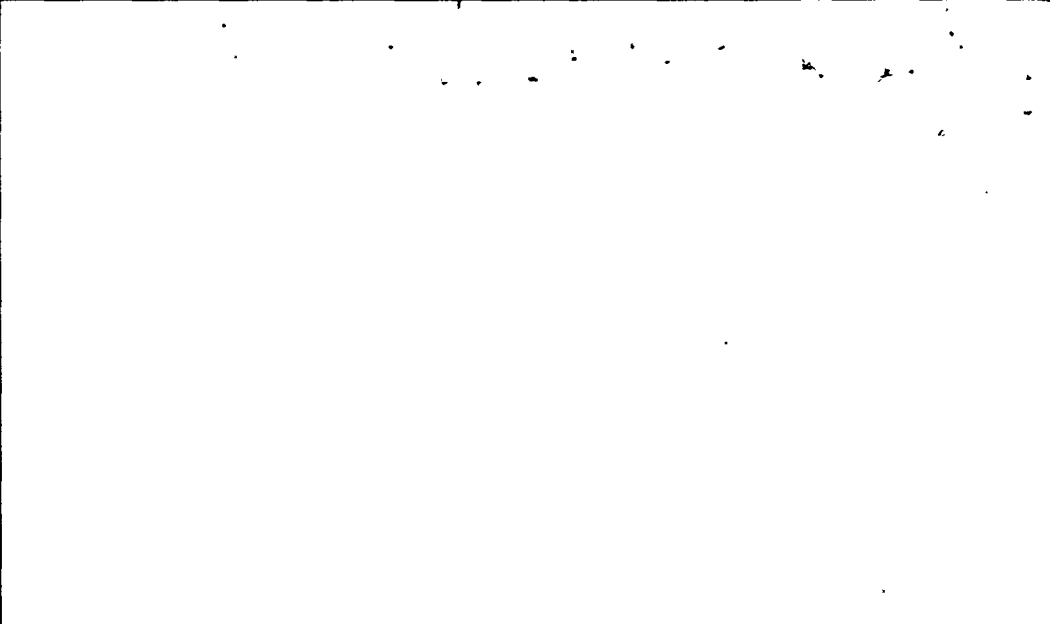
- - N O N E - -

6. TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination ~~of the certificate~~ established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States. Delegation Option Manufacturer, CE-1

DATE OF ISSUANCE	FAA REPRESENTATIVE By <i>Daniel L. Goble</i>	DESIGNATION NUMBER
11/11/83	Daniel L. Goble	DOA-PC4

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.





U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

581-F500

CLR

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268375	Nationality and Registration Mark N6594E
2. Owner	Name (As shown on registration certificate) Washington State Patrol Aviation 7525 Old Hwy 99 Olympia WA 98501	Address (As shown on registration certificate) Washington State Patrol Aviation 7525 Old Hwy 99 Olympia WA 98501

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

RECEIVED
JUN - 9 1998
SEATTLE FSDO AW

6. Conformity Statement

A. Agency's Name and Address Washington State Patrol Aviation CHRIS D MARSH 7525 OLD HWY 99 OLYMPIA, WA. 98501	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. A&P 533523077
--	--	-------------------------------------

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 6-2-98	Signature of Authorized Individual <i>Chris D Marsh</i>
----------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 6-2-98		Certificate or Designation No. A&P 533523077IA	Signature of Authorized Individual <i>Chris D Marsh</i>		

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

NOTICE

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed Precise Flight Inc. standby vacuum system STC#SA2162NM.

2. Installed Aero Safe Guardian I standby vacuum/pressure system per installation instruction and drawings in the Kit. STC SA4844SW and drawing list 820400.

3. Equipment list and Weight and balance updated.

*****End*****

☐ Additional Sheets At



APPLICATION FOR AIRWORTHINESS CERTIFICATE

INSTRUCTIONS — Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.

CLR — Form Approved
O.M.B. No. 2120-0018

I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK	2. AIRCRAFT BUILDER'S NAME (Make)	3. AIRCRAFT MODEL DESIGNATION	4. YR MFR	FAA CODING
	5. AIRCRAFT SERIAL NO	6. ENGINE BUILDER'S NAME (Make)	7. ENGINE MODEL DESIGNATION		
	8. NUMBER OF ENGINES	9. PROPELLER BUILDER'S NAME (Make)	10. PROPELLER MODEL DESIGNATION	11. AIRCRAFT IS (Check if applicable)	
				IMPORT	
APPLICATION IS HEREBY MADE FOR: (Check applicable items)					
A 1 <input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERTIFICATE (Indicate category) <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON					
B <input type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)					
2 <input type="checkbox"/> LIMITED					
5 <input type="checkbox"/> PROVISIONAL (Indicate class)					
3 <input type="checkbox"/> RESTRICTED (Indicate operation(s) to be conducted)					
4 <input type="checkbox"/> EXPERIMENTAL (Indicate operation(s) to be conducted)					
8 <input type="checkbox"/> SPECIAL FLIGHT PERMIT (Indicate operation to be conducted, then complete Section VI or VII as applicable on reverse side)					
C 6 <input type="checkbox"/> MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE Restricted Operation and "Standard" or "Limited," as applicable)					
A. REGISTERED OWNER (As shown on certificate of aircraft registration) IF DEALER, CHECK HERE					
NAME ADDRESS					
Washington State Patrol 7525-A Old Hwy 99, Olympia, Wa 98501					
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)					
AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No) AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No)					
3A13 Rev 51 X 97-01-13					
AIRCRAFT LISTING (Give page number(s)) SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)					
SA 2162 NM - SA 2067 NM					
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS					
CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173 TOTAL AIRFRAME HOURS EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)					
X 10592.0 3					
D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested					
DATE OF APPLICATION NAME AND TITLE (Print or type) SIGNATURE					
2-13-97 GARY BADE - WSP Jet Aircraft Tech Gary B					
A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete this section only if FAR 21.183(d) applies)					
2 FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.) 3 CERTIFICATED MECHANIC (Give Certificate No.) 5 CERTIFICATED REPAIR STATION (Give Certificate No.)					
X GARY BADE AEP53256046SEA					
5 AIRCRAFT MANUFACTURER (Give name of firm)					
DATE TITLE SIGNATURE					
2-13-97 WSP Jet Aircraft Tech Gary B					
(Check ALL applicable blocks in items A and B)					
A. I find that the aircraft described in Section I or VII meets requirements for					
4 THE CERTIFICATE REQUESTED					
B. Inspection for a special flight permit under Section VII was conducted by:					
FAA INSPECTOR FAA DESIGNEE					
CERTIFICATE HOLDER UNDER FAR 65 FAR 121, 127 or 135 FAR 145					
DATE DISTRICT OFFICE DESIGNEE'S SIGNATURE AND NO FAA INSPECTOR'S SIGNATURE					
5-8-97 SEP-1200 4 1					

VII. AIRWORTHINESS DOCUMENTATION <small>(FAA use only)</small>		VIII. AIRWORTHINESS DOCUMENTATION <small>(FAA use only)</small>	
A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable		G. Statement of Conformity, FAA Form 8130-9 (Attach when required)	
B. Current Operating Limitations Attached		H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)	
C. Data, Drawings, Photographs, etc. (Attach when required)		I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.191(a) CAR (Original Attached)	
D. Current Weight and Balance Information Available in Aircraft		J. Current Airworthiness Certificate Issued in Accordance with FAR 21.183(d) (Copy attached)	
E. Major Repair and Alteration, FAA Form 337 (Attach when required)			
F. This Inspection Recorded in Aircraft Records			

VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST		VI. PRODUCTION FLIGHT TESTING	
F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described		A. MANUFACTURER	
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)		B. PRODUCTION BASIS (Check applicable item)	
D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS		C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS	
C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT		PRODUCTION CERTIFICATE (Give production certificate number)	
B. DESCRIPTION OF FLIGHT		TYPE CERTIFICATE ONLY	
A. DESCRIPTION OF AIRCRAFT		APPROVED PRODUCTION INSPECTION SYSTEM	
REGISTERED OWNER		DATE OF APPLICATION	
BUILDER (Make)		NAME AND TITLE (Print or type)	
SERIAL NUMBER		SIGNATURE	
MODEL			
REGISTRATION MARK			
CUSTOMER DEMONSTRATION FLIGHTS <input type="checkbox"/> (Check if applicable)			
FROM			
TO			
DEPARTURE DATE			
DURATION			

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N6594R	CESSNA 182R	18268375	NORMAL

5 AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance the aircraft to which issued has been inspected and found to conform to the type certificate therefor to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein

Exceptions

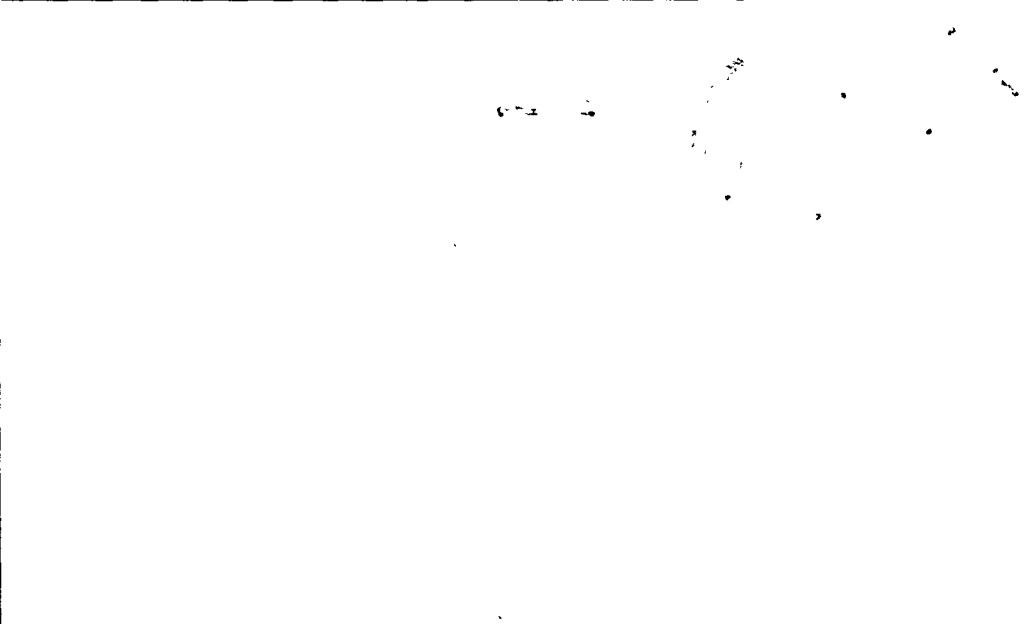
NONE

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
05-08-97	 CHARLES L. REYNOLDS	SEA-FSDO

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS



UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
SPECIAL AIRWORTHINESS CERTIFICATE

A	CATEGORY/DESIGNATION		EXPERIMENTAL	
	PURPOSE		RESEARCH AND DEVELOPMENT	
B	MANUFACTURER	NAME	N/A	
		ADDRESS	N/A	
C	FLIGHT	FROM	N/A	
		TO	N/A	
D	N- 6594E		SERIAL NO.	18268375
	BUILDER CESSNA		MODEL	182R
E	DATE OF ISSUANCE		MARCH 24, 1997	
	OPERATING LIMITATIONS DATED		03-24-97	
	SIGNATURE OF FAA REPRESENTATIVE		ARE A PART OF THIS CERTIFICATE	
	CHARLES L. REYNOLDS		DESIGNATION OR OFFICE NO.	
			SEA-FSDO	

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate, (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.



U.S. Department
of Transportation
Federal Aviation
Administration

Flight Standards District Office

1601 Lind Ave. SW
Suite 260
Renton, Washington 98055-4055
(206) 227-2884, Fax: (206) 227-1810
1-800-354-1940

EXPERIMENTAL OPERATING LIMITATIONS FOR RESEARCH & DEVELOPMENT

REG. NO.
N6594E

MAKE:
CESSNA

MODEL:
182R

SERIAL NO:
18268375

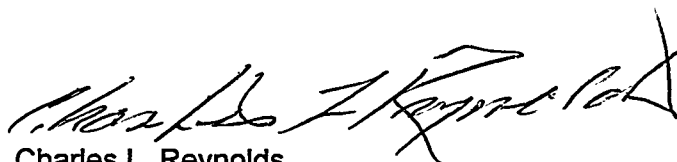
THESE OPERATING LIMITATIONS SHALL BE ACCESSIBLE TO THE PILOT

1. No person may operate this aircraft for other than the purpose(s) of R&D to accomplish the tests outlined in the applicant's program letter, dated 02-13-97, describing compliance with Federal Aviation Regulation (FAR) 21.193(d), and made available to the pilot in the aircraft. Additionally, this aircraft shall be operated in accordance with applicable air traffic and general operating rules of FAR 91, and all additional limitations herein prescribed under the provisions of FAR 91.319(e).
2. All flights shall be conducted within the geographical area described as follows:
THE STATE OF WASHINGTON .., avoiding congested airways,
airport traffic areas and densely populated areas.
3. Day VFR operation only is authorized.
4. No person may be carried in this aircraft during flight unless that person is required for the purpose of the flight.
5. This aircraft shall contain the placards, markings, etc. (or other operating instructions developed for an STC modification), required by FAR 91.9)
6. This aircraft is prohibited from acrobatic flight; that is, an intentional maneuver involving an abrupt change in the aircraft's attitude, or abnormal acceleration not necessary for normal flight.
7. The cognizant FAA Flight Standards District Office must be notified and their response received, in writing, prior to flying this aircraft after incorporating a major change, as defined by FAR 21.93.
8. If aircraft, engine, or propeller operating limitations are exceeded, an appropriate entry will be made in the historical records.

1000

9 The Special Airworthiness Certificate and these Operation Limitations shall expire on:
05-31-97.

10 The word "Experimental" shall be displayed in accordance with FAR 45.23.

A handwritten signature in black ink, appearing to read 'Charles L. Reynolds', written in a cursive style.

Charles L. Reynolds
Principal Maintenance Inspector

Date issued: March 24, 1997

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved OMB No. 2120-0020 <hr/> For FAA Use Only Office Identification	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	Cessna		Model	182R
	Serial No.	18268375		Nationality and Registration Mark	N6594E
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	WASHINGTON STATE PATROL			7525-A OLD HWY 99 OLYMPIA, WA 98501	
3. For FAA Use Only					
THE DATA IDENTIFIED HEREIN COMPLIES WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.7 <div style="display: flex; justify-content: space-around; align-items: center;"> 2-3-97 DATE FAA INSPECTOR, NM-FSDO-01 </div>					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	Cessna	182R	18268375		X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
GARY BADE WASHINGTON STATE PATROL 7525-A OLD HWY 99 OLYMPIA, WA 98501			<input checked="" type="checkbox"/> U.S. Certified Mechanic		A&P532580469
			<input type="checkbox"/> Foreign Certified Mechanic		
			<input type="checkbox"/> Certificated Repair Station		
			<input type="checkbox"/> Manufacturer		
I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date			Signature of Authorized Individual		
5-1-97					
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	<input type="checkbox"/>	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection		Certificate or Designation No.		Signature of Authorized Individual	
5-8-97		532580469JA			

THE UNITED STATES OF AMERICA
DEPARTMENT OF THE ARMY
OFFICE OF THE ADJUTANT GENERAL
WASHINGTON, D. C. 20315
OFFICE OF THE ADJUTANT GENERAL
WASHINGTON, D. C. 20315
OFFICE OF THE ADJUTANT GENERAL
WASHINGTON, D. C. 20315

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Installed new Nicrocraft muffler P/N CEM0002 (O.E.M. direct replacement) on aircraft, reversed (left for right) and rotated aft, to position muffler outlet on the left side of the aircraft and in alignment of the left cowl flap opening.
2. Redrill the left and right muffler inlets for proper alignment of locating pin on the original muffler to exhaust clamps.
3. Installed modified original muffler shroud. Shroud was modified for left hand muffler outlet pipe, by cutting a new muffler outlet hole in the left end and patching the original hole by spot welding a patch fabricated from stainless steel sheet of the same thickness and alloy as the original shroud.
4. Fabricated and installed new exhaust pipe connecting the original muffler outlet pipe to the added carbon fiber muffler, through the left cowl flap opening. This exhaust pipe was fabricated using 3.00X.035W Mil-T 6737 C T321 stainless steel tubing (same material as the O.E.M. muffler outlet), and a Walcolmony 3.00" bellows fitting. The exhaust pipe was attached to the bellows and bellows to the original muffler outlet by welding. The exhaust pipe was connected to the added carbon fiber muffler with a 3" stainless exhaust clamp.
5. Fabricated and installed two exhaust system to airframe mounting brackets from .060 type 316 stainless steel and four hi-temp Lord vibration mounts Cessna P/N J14290-4. I installed the two mounts, one each at stations #28.0 and #56.7 by removing existing #6 rivets, three at each location, and installing the mounting brackets with AN3 bolts and lock nuts through the removed rivet holes.
6. Fabricated a 31" muffler extension pipe using 3.00OD X .035W Mil-T 6737C T321 stainless tubing. Installed extension pipe to the carbon fiber muffler outlet using a stainless exhaust clamp.
7. Installed new exhaust system to mounting brackets using AN3 bolts and lock nuts at two locations, refer to figure 1.
8. Fabricated and installed flush patch for the original cowling muffler outlet hole. Patch fabricated from .040 2024 T3 aluminum, and attached with AN832 screws and lock nuts. Patch fabricated in accordance with AC 43.13-1A change 3 Fig 2.24 Par 100.
9. Rigged left cowl flap to maintain .25" clearance with the bottom of the exhaust pipe at the closest point in the closed position. Fabricated and installed cowl flap handle closed position stop on center console to limit cowl flap closed travel at the .25" clearance point. Relabeled cowl flap handle "CLOSED" in the new location. Rigged left cowl flap open to a maximum dimension of 6.0".

☐ Additional Sheets Are Attached

100

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

10. All welding of exhaust system done in accordance with AC43.13-1A change 3 par 68 a,b,c,d,e,f,h.

11. Weight and balance and equipment list updated to reflect this change.

Basic empty wt.	1912.5 lbs	47.02 arm	89927.5 mom
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Muffler system	11.0 lbs	26.0 arm	286.0 mom
----------------	----------	----------	-----------

New empty wt.	1923.5 lbs	46.91 arm	90213.0 mom
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Max T.O. wt.	3100.0 lbs		
--------------	------------	--	--

Useful load	1176.5 lbs		
-------------	------------	--	--

12. Muffler system to be inspected in conjunction with each Annual and 100hr inspection. In addition to the exhaust system inspection items listed in the applicable Cessna 182 Maintenance Manual inspection form : 1. Remove Cessna muffler shroud and inspect for exhaust leaks, cracking and lose or missing fasteners. 2. Inspect the entire exhaust pipe and carbon fiber muffler for cracking, chaffing, lose or missing fasteners and deteriorated lord mounts. 3. Remove carbon fiber muffler wrap annually and inspect packing material for deterioration and oil saturation. Replace packing with new if either condition exists.

End

☐ Additional Sheets Are Attached

10/10/10

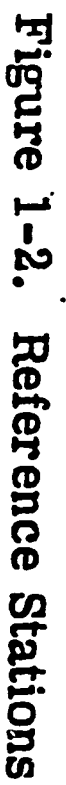


Figure 1-2. Reference Stations

7-11-62



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

SEA-15800

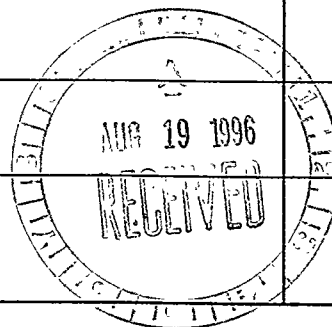
INSTRUCTIONS. Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Cessna	Model 182R
	Serial No. 18268475	Nationality and Registration Mark 6594E
2. Owner	Name (As shown on registration certificate) Washington State Patrol Aviation 7525 Old Hwy 99 Olympia WA 98501	Address (As shown on registration certificate) Washington State Patrol Aviation 7525 Old Hwy 99 Olympia WA 98501

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~			X	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				



6. Conformity Statement

A. Agency's Name and Address Washington State Patrol Aviation Brian P. Wilson 7525 Old Hwy 99 Olympia WA 98501	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. AP536567800
--	--	-----------------------------------

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 8-14-96	Signature of Authorized Individual Brian P. Wilson
-----------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Ftl. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization <input type="checkbox"/> Other (Specify)
	FAA Designee	Repair Station	

Date of Approval or Rejection 8-14-96	Certificate or Designation No. AP536567800IA	Signature of Authorized Individual Brian P. Wilson
--	---	---

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

NOTICE


8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Installed liner in seat bottom, extending 3 inches each side of the crack.
2. Welded liner in place using rosette welds and bolts of original tubes.
3. Repaired cracks in seat bottom by welding.

4. All repairs accomplished in accordance with AC43.13-1A Change 3 section 2 paragraph 68a, (1), b, c, d, e, f, h, and I. This data is appropriate to the product being repaired; (2) is directly applicable to the repair being made; (3) is not contrary to the manufacturer's data.

☐ Additional Sheets Are Attached

CLR CLR

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved	
				OMB No. 2120-0020	
				For FAA Use Only	
				Office Identification	
				SEA-FSDO	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make Cessna		Model C-182		
	Serial No. 68375		Nationality and Registration Mark N6594E		
2. Owner	Name (As shown on registration certificate) WASHINGTON State Patrol		Address (As shown on registration certificate) 7525 Old Highway 99 Olympia, WA 98512		
3. For FAA Use Only					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				+
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
CHRIS MARSH Washington State Patrol 7525 Old Highway 99 Olympia, WA 98512		<input checked="" type="checkbox"/> U.S. Certificated Mechanic		A+533523077JA	
		<input type="checkbox"/> Foreign Certificated Mechanic			
		<input type="checkbox"/> Certificated Repair Station			
		<input type="checkbox"/> Manufacturer			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date 7-15-96		Signature of Authorized Individual Christopher Dale Marsh			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization Person Approved by Transport Canada Airworthiness Group Other (Specify)		
	FAA Designee	Repair Station			
Date of Approval or Rejection 7-15-96		Certificate or Designation No. 533523077JA	Signature of Authorized Individual Christopher Dale Marsh		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed Right hand & Left Hand cabin outlet vents PN# 0413155 per STC Instructions
STC # SA8150SW
2. Installed SEROS vent tube Assy. PN SI-2-2 in Right outlet tube PN 0713355-6 and left outlet tube PN 0713355-5 per STC Instruction - SA8150SW.
3. No change in weight & balance.

Nothing Follows

1. Aircraft		Make	Model
		Cessna	182 R
		Serial No.	N6594E
2. Owner		Nationality and Registration Mark	
		N6594E	
		Address (As shown on registration certificate)	
		7525 Old Hwy 99 Olympia, Wa 98501	
3. For FAA Use Only			
4. Unit Identification			
Unit	Make	Model	Serial No.
AIRFRAME	(As described in Item 1 above)		
POWERPLANT			
PROPELLER			
APPLIANCE	Type		
	Manufacturer		
5. Type			
Repair			
Alteration			
6. Conformity Statement			
A. Agency's Name and Address		B. Kind of Agency	
Washington State Patrol		<input checked="" type="checkbox"/> U.S. Certified Mechanic	
Garry Bode		<input type="checkbox"/> Foreign Certified Mechanic	
7525 Old Hwy 99		<input type="checkbox"/> Certified Repair Station	
Olympia, Wa 98501		<input type="checkbox"/> Manufacturer	
		C. Certificate No.	
		AEP 53250469	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
Date		Signature of Authorized Individual	
7-6-95		Garry Bode	
7. Approval for Return To Service			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA Ftl. Standards Inspector	Manufacturer	Inspection Authorization
	FAA Designee	Repair Station	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual
7-6-95		53250469IA	Garry Bode

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed Pilots And Copilots Shoulder Harness.
2. Installed Pilots And Copilots B.A.S. Shoulder Harness System S/N 2183 And 2184 In Accordance with STC # SA 2067 NM Instructions And Installation Manual.
3. Equipment List And Weight And Balance updated.

End

☐ Additional Sheets Are Attached

1. Aircraft		Make	Model	Nationality and Registration Mark	
		CESSNA		N6594E	
2. Owner		Name (As shown on registration certificate)		Address (As shown on registration certificate)	
		WASHINGTON STATE PATROL		7525 OLD HWY. 99 OLYMPIA WA., 98501	
3. For FAA Use Only					
4. Unit Identification					
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
5. Type					
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
WASHINGTON STATE PATROL 7525 OLD HWY 99 OLYMPIA WA., 98501		X U.S. Certified Mechanic Foreign Certified Mechanic Certificated Repair Station Manufacturer		A&P532580469	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date 1-11-94		Signature of Authorized Individual <i>Samy Bae</i>			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 1-11-94		Certificate or Designation No. 532580469IA		Signature of Authorized Individual <i>Samy Bae</i>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

A. THE FOLLOWING EQUIPMENT AND COMPONENTS WERE INSTALLED:

1. TCAD COMPUTER / DISPLAY UNIT P/N ATS8000
2. MOUNTING TRAY ASSEMBLY P/N 70-1001
3. TRANSPONDER COUPLER P/N 70-1040
4. ONE L-BAND ANTENNA

B. THE COMPUTER / DISPLAY UNIT WAS INSTALLED IN ACCORDANCE WITH RYAN TCAD MODEL ATS-8000 INSTALLATION MANUAL P/N 32-2001 R7 11/92, AND GUIDANCE FROM AC 43.13-1A CPT 11, 43.13-2A CPT 1 AND 2.

C. THE TRANSPONDER COUPLER WAS INSTALLED IN ACCORDANCE WITH THE ABOVE INSTALLATION MANUAL AND AC 43.13-1A CPT 11, 43.13-2A CPT 1 AND 2.

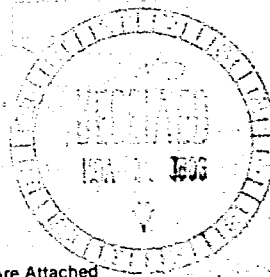
D. ONE L-BAND ANTENNA WAS INSTALLED ON THE TOP FUSELAGE IN ACCORDANCE WITH AC 43.13-2A CPT 3.

E. A ELECTRICAL LOAD ANALYSIS WAS PERFORMED AND FOUND TO BE WITH IN LIMITS.


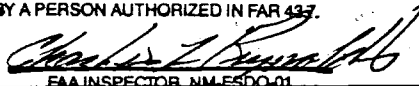
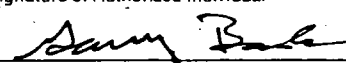
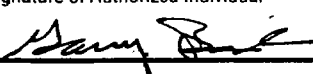
F. EQUIPMENT WAS OPERATIONALLY TESTED AND PERFORMED SATISFACTORY AND DID NOT ADVERSELY AFFECT EXISTING COMPONENTS.

G. THE AIRCRAFT EQUIPMENT LIST WAS REVISED AND WEIGHT AND BALANCE UPDATED. A RYAN TCAD PILOTS HANDBOOK P/N 32-2002 WAS PLACED IN THE AIRCRAFT.

NOTHING FOLLOWS



☐ Additional Sheets Are Attached

 U.S. Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only	
		AUG 4 1992 RECEIVED		Office Identification NM-FSDO-01	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make CESSNA		Model 182R		
	Serial No. 18268375		Nationality and Registration Mark N6594E		
2. Owner	Name (As shown on registration certificate) WASHINGTON STATE PATROL		Address (As shown on registration certificate) 7525-A OLD HIGHWAY 99 OLYMPIA WA 98501-5726		
	THE DATA IDENTIFIED HEREIN COMPLETES PART 43.9 ONLY APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CON- FORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.7.				
DATE <u>7-30-92</u>  FAA INSPECTOR, NM-FSDO-01					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)			X	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
GARY BADE WASHINGTON STATE PATROL 7525-A OLD HIGHWAY 99 OLYMPIA WA 98501		<input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer		A&P532580469IA	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date 7-29-92		Signature of Authorized Individual 			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	<input type="checkbox"/>	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 7-31-92		Certificate or Designation No. 532580469IA		Signature of Authorized Individual 	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

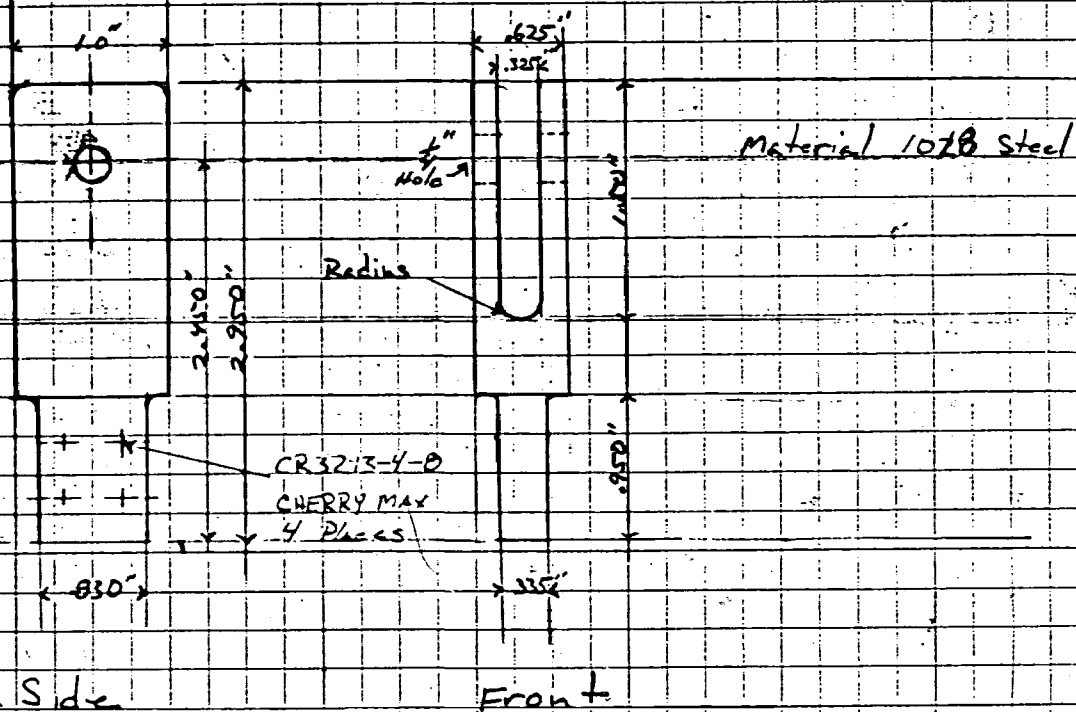
1. Removed damaged portion of four seat bottom legs because of cracking.
2. Fabricated four seat leg inserts machined from 1018 steel. (See attached drawing).
3. Installed inserts with wet zinc chromate primer and four P/N CR3213-4-8 cherry max rivets. Repair accomplished in accordance with AC 43.131A Rev III Par 99 c,d,e,f,h Par 100b, Par 101b.
4. Stress analysis on repair completed by Soloy Corporation and found the strength of the repair to be equal to or exceed the original design.
5. Weight and balance change negligible.

----- Nothing Follows -----

☒ Additional Sheets Are Attached

17-049600

Cessna Seat Leg Insert

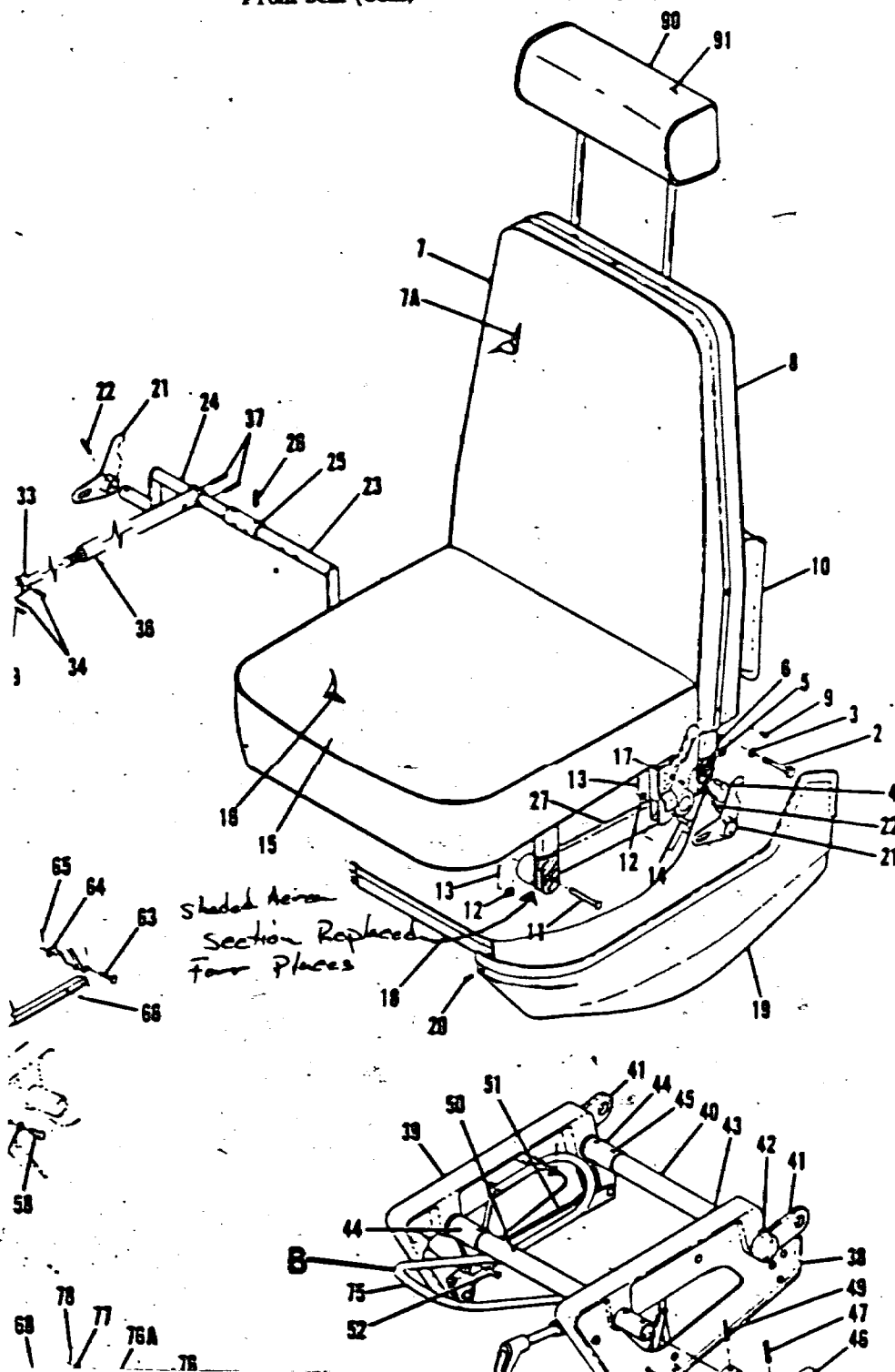


FAA AIRCRAFT REGISTRY
CAMERA NO. 2 DATE: 10-5-92


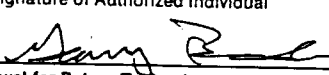
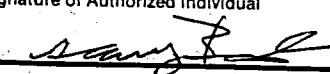


182 & T182 Parts Catalog

Front Seat (Cont)



FAA AIRCRAFT REGISTRY
CAMERA NO. 2 DATE: 10-5-92.

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421): Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).		Office Identification 54-FSDO-01	
1. Aircraft	Make CESSNA	Model 182R	
	Serial No. 18268375	Nationality and Registration Mark N6594E	
2. Owner	Name (As shown on registration certificate) WASHINGTON STATE PATROL	Address (As shown on registration certificate) 7525-A OLD HIGHWAY 99 OLYMPIA WA 98501-5726	
	3. For FAA Use Only		
4. Unit Identification			
Unit	Make	Model	Serial No.
AIRFRAME	(As described in Item 1 above)		
POWERPLANT			
PROPELLER			
APPLIANCE	Type		
	Manufacturer		
5. Type			
			Repair
			Alteration
6. Conformity Statement			
A. Agency's Name and Address		B. Kind of Agency	
GARY BADE WASHINGTON STATE PATROL 7525-A OLD HIGHWAY 99 OLYMPIA WA 98501		<input checked="" type="checkbox"/> U.S. Certificated Mechanic	
		Foreign Certificated Mechanic	
		Certificated Repair Station	
		Manufacturer	
		C. Certificate No. A&P532580469	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
Date 06-24-92		Signature of Authorized Individual 	
7. Approval for Return To Service			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA Fit Standards Inspector	Manufacturer	Inspection Authorization
	FAA Designee	Repair Station	
Date of Approval or Rejection 6-24-92		Certificate or Designation No. 532580469IA	Signature of Authorized Individual 

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

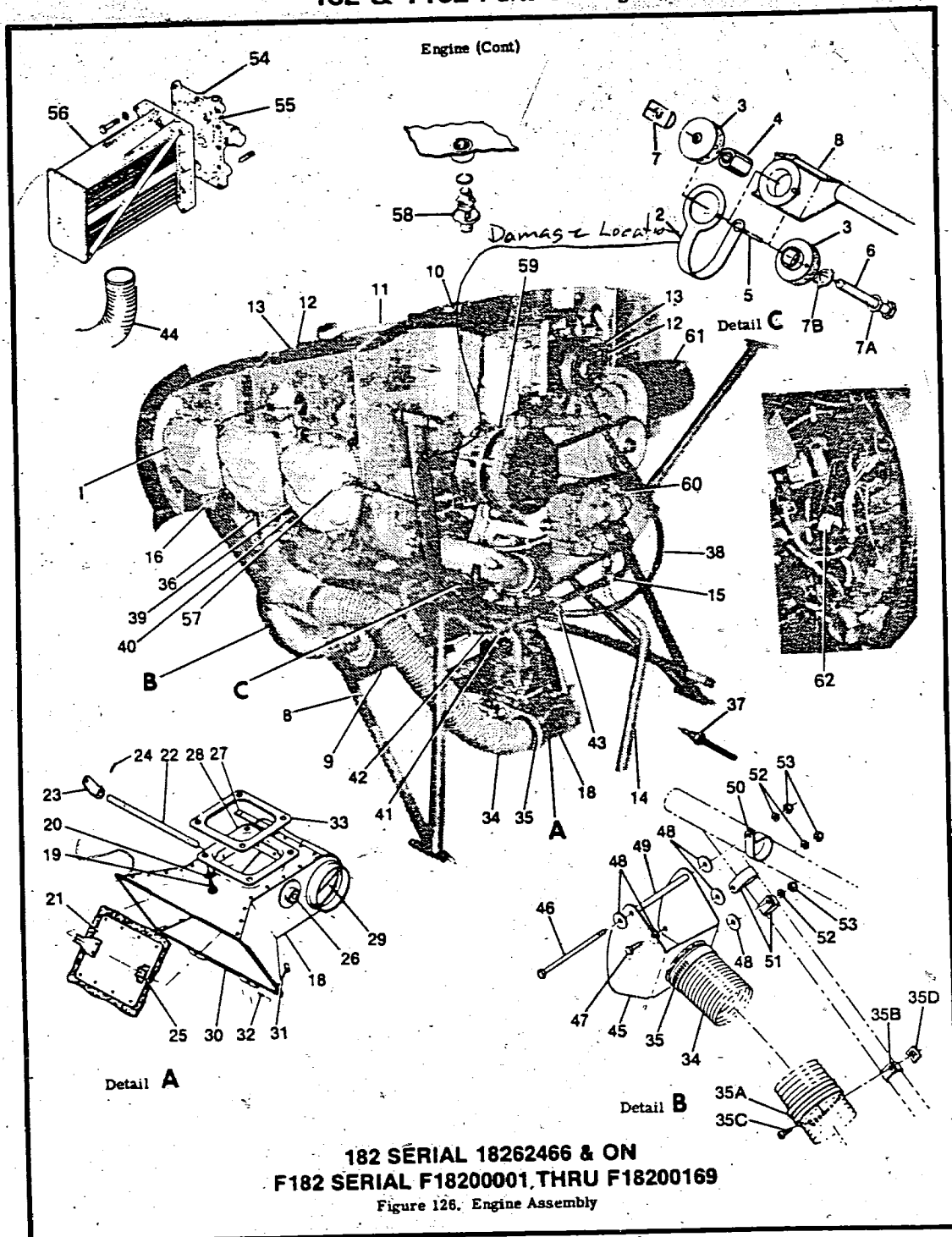
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Repaired abrasion damage to left upper engine mount tube. Damage located on aft side of tube 7 inches down from upper mount to firewall bolt hole. Repair accomplished by welded-patch repair AC 43.131A change three par 73 and fig. 2.6. Patch fabricated from 1" OD x .049 chrome moly tubing. Repair accomplished using T.I.G. process in accordance with Par 68a, I, b, c, d, e, h. Negligible change in weight and balance. This data may be used as approved data when: (1) It is appropriate to the product being repaired (2) is directly applicable to the repair being made; and (3) not contrary to manufacturer's data.


----- Nothing Follows -----

☒ Additional Sheets Are Attached

182 & T182 Parts Catalog



FAA AIRCRAFT REGISTRY
CAMERA NO. 3N DATE: 8-10-92

		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only	
		RECEIVED FEB 25 1992		Office Identification	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	CESSNA	Model	182R	
	Serial No.	18268375	Nationality and Registration Mark	N6594E	
2. Owner	Name (As shown on registration certificate)	WASHINGTON STATE PATROL		Address (As shown on registration certificate)	
				7525-A OLD HIGHWAY 99 OLYMPIA WA 98501-5726	
3. For FAA Use Only THE DATA IDENTIFIED HEREIN COMPLIES WITH APPLICABLE AIRWORTHINESS REQUIREMENTS AND IS APPROVED ONLY FOR THE ABOVE DESCRIBED AIRCRAFT SUBJECT TO CONFORMITY INSPECTION BY A PERSON AUTHORIZED IN FAR 43.					
DATE		FAA INSPECTOR, A&P532580469IA		5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above)				
POWERPLANT	CONTINENTAL	0-470U	286531R		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
GARY BADE WASHINGTON STATE PATROL 7525-A OLD HIGHWAY 99 OLYMPIA WA 98501		<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		A&P532580469IA	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date		Signature of Authorized Individual			
3-5-92		Gary Bade			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit Standards Inspector	Manufacturer	Other (Specify)		
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group		
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
3-5-92		532580469IA	Gary Bade		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. To reduce excessive cabin heat and prevent deterioration and hi temperature caused damage of components of cabin heat and defog distribution system.
2. Modified muffler heat shroud P/N 0750161-87 by removal of lower 8" baffle strip and modification of upper 12" baffle strip by drilling 1/2" diameter holes at 3/4" Centers. Those modifications increased airflow around the muffler reducing cabin heat temperature as demonstrated by flight test data attached modifications accomplished in accordance with instructions from Cessna factory technical support.

3. Flight Test Data:

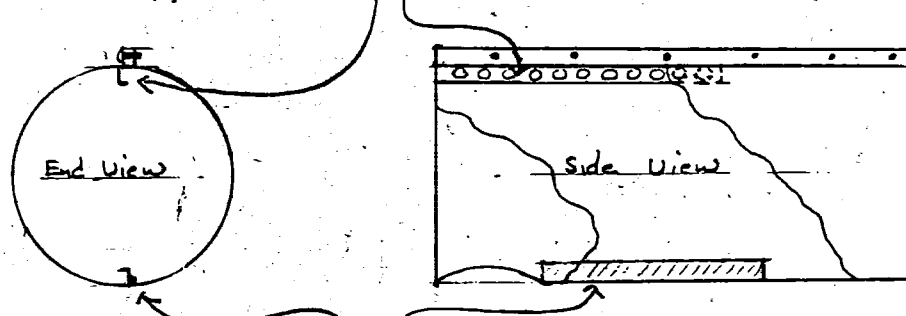
	OAT	Cabin Temp	CHT
With unmodified muffler at take off	47 F	250 F	220 F
With unmodified muffler at cruise	47 F	210 F	220 F
With modified muffler at take off	51 F	185 F	220 F
With modified muffler at cruise	51 F	175 F	220 F

Note: Cabin Temp readings taken in duct at Firewall.

☒ Additional Sheets Are Attached

Cessna Muffler Shroud

This Upper 12" Baffle Strip Modified With $\frac{1}{2}$ " Holes



This Lower 8" Baffle Strip Removed

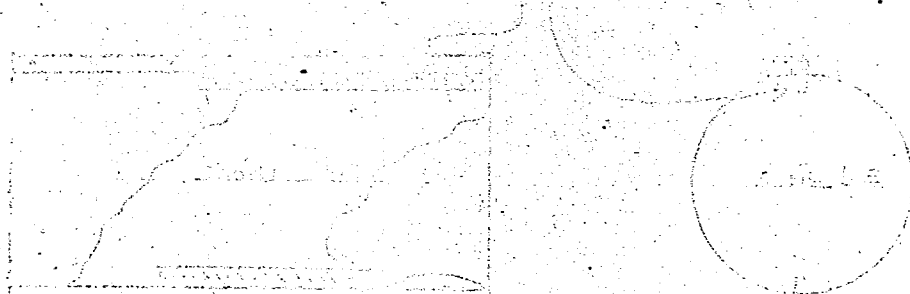


Diagram of the 20 inch

RECEIVED
JAN 31 1992
WSP AVIATION



January 24, 1992

Mr. Terry Carr
Director of Maintenance
Washington State Patrol
Aviation Section
7525A Old Highway 99
Olympia, WA 98501

Dear Mr. Carr:

Thank you for your request for technical information concerning the Model 182Q/R.

Your request has been forwarded to our Engineering Department for review and their comments are as follows:

Modification (drilling vent holes or cutting) of the baffles in the P/N 0750161-82/-87 shroud assembly will reduce the temperature of the cabin heater air by an undetermined amount. Adequate material must remain in the baffle after modification to continue functioning as a stiffener for the shroud.

Mr. Carr, I hope this information is helpful and thanks for flying Cessna's.


Sincerely,

A handwritten signature in cursive script, appearing to read 'Steve Brooks'.

Steve Brooks
Representative
Resident Service

FAA AIRCRAFT REGISTRY
CAMERA NO. 3

DATE: 4-21-92

 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0002 For FAA Use Only Circle Identification AWA-FS05-01
INSTRUCTIONS: Print or type all entries. See FAR 43.1, FAR 43 Appendix B, and AC 43.16 for instructions on the use of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 303 Federal Aviation Act of 1958).		
1. Aircraft	Make CESSNA Serial No. 18058375	Model 182B Nationality and Registration Mark N5594E
2. Owner	Name, As shown on registration certificate WASHINGTON STATE PATROL Address, As shown on registration certificate 7525-A Old Highway 99 Olympia, WA 98501	
3. For FAA Use Only		
4. Unit Identification		
Unit	Make	Model
AIRFRAME	(As described in Item 1 above)	
POWERPLANT		
PROPELLER		
APPLIANCE	Type	Manufacturer
5. Type		
6. Conformity Statement		
A. Agency's Name and Address		B. Kind of Agency
Washington State Patrol 7525-A Old Highway 99 Olympia, WA 98501		<input checked="" type="checkbox"/> U.S. Certified Mechanic <input type="checkbox"/> Foreign Certified Mechanic <input type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer
		C. Certificate No. A1P6302550469
D. I certify that the repair and/or alteration made to the unit, as identified in Item 4 above and described on the reverse or attachments hereto, have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.		
Date 7-23-91	Signature of Authorized Individual <i>[Signature]</i>	
7. Approval for Return To Service		
Pursuant to the authority given persons specified below, the unit identified in Item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is: <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED		
BY	FAA/RP Standards Inspector	Manufacturer
	FAA Designee	Repair Station
		Inspection Authorization
		Person Approved by Transport Canada Airworthiness Group
Date of Approval or Rejection 7-23-91	Certificate or Designation No. A1P6302550469	Signature of Authorized Individual <i>[Signature]</i>

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed original right and left rear engine mount spacers.
2. Installed new engine mount spacers, Cessna P/N 125100-17 and gussets P/N 0751003-27.
3. Repaired cracks in rear engine mount support plates by welding.

All repairs and spacer/gusset installations accomplished in accordance with AC43.131A Section 2 Paragraph 68 a.(1), b, c, d, e, f, and h; And previously approved form 337 dated 11-30-91 on N9579E and Cessna parts and Maint. Manuals. No change in weight and balance.

----- Nothing Follows -----

☐ Additional Sheets Are Attached

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-ROGO.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				MAY 3 1991	
				RECEIVED	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 for subsequent revision thereof.					
1. AIRCRAFT	MAKE	Cessna		MODEL	182
	SERIAL NO.	18268375		NATIONALITY AND REGISTRATION MARK	6594E
2. OWNER	NAME (As shown on registration certificate)	Washington State Patrol		ADDRESS (As shown on registration certificate)	7525-A Old Highway 99 Olympia, WA 98501-5726
3. FOR FAA USE ONLY					
DATE <u>3-4-91</u> The data incorporated herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7 <u>Noel Keefe, ASI</u> NM-FS80					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Brian P. Wilson 7525-A Old Highway 99 Olympia, WA 98501-5726		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		A&P 536567800IA	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE 4-30-91		SIGNATURE OF AUTHORIZED INDIVIDUAL <u>Brian P. Wilson</u>			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA P.T. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNER	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 4-30-91		CERTIFICATE OR DESIGNATION NO. A5316567800		SIGNATURE OF AUTHORIZED INDIVIDUAL <u>Brian P. Wilson</u>	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Replaced 60 amp alternator PN C611503-0102 with a 95 amp alternator PN C611505-0102 using existing bracket PN 643935 per Cessna parts manual.

Wiring size changes were made per Cessna wiring diagram 0770139 page 4.3. Changing of the 60 amp circuit breaker to a 100 amp circuit breaker per same diagram page 4.3.

Drive system for the 95 amp alternator is the same as the 60 amp alternator per Teledyne Continental Motors parts list.

Location of 100 amp circuit breaker was accomplished per Cessna drawing 2201083. Installation of brackets 2270024-1 and 2270023-1 for holding circuit breaker accomplished per drawing 2201083 page 1.

Equipment, weight and balance updated as required.

-----See Attached Drawings-----

☐ ADDITIONAL SHEETS ARE ATTACHED

RECEIVED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				MAR 10 1989		Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				SEA-FSDO-AW		FOR FAA USE ONLY OFFICE NMTSDO-01	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.							
1. AIRCRAFT	MAKE Cessna			MODEL 182 R			
	SERIAL NO. 18268375			NATIONALITY AND REGISTRATION MARK N6594E			
2. OWNER	NAME (As shown on registration certificate) Washington State Patrol			ADDRESS (As shown on registration certificate) General Admin. Building Olympia, WA 98504			
	3. FOR FAA USE ONLY						
4. UNIT IDENTIFICATION							5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION		
AIRFRAME	***** (As described in item 1 above) *****				X		
POWERPLANT							
PROPELLER							
APPLIANCE	TYPE						
	MANUFACTURER						
6. CONFORMITY STATEMENT							
A. AGENCY'S NAME AND ADDRESS				B. KIND OF AGENCY		C. CERTIFICATE NO.	
Gary Bade Washington State Patrol 7525-A Old Highway 99 Olympia, WA 95801-5726				<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		A&P532580469IA	
I, I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
DATE 3-7-89				SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Gary Bade</i>			
7. APPROVAL FOR RETURN TO SERVICE							
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED							
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION		OTHER (Specify)		
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT				
DATE OF APPROVAL OR REJECTION 3-7-89		CERTIFICATE OR DESIGNATION NO. 532580469IA		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Gary Bade</i>			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8 DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets Identify with aircraft nationality and registration mark and date work completed.)

1. Installed brackett airfilter assymby I.A.W., instructions contained in STC-SA71GL.

Nothing Follows

☐ ADDITIONAL SHEETS ARE ATTACHED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RECEIVED MAR 17 1989 SEA FSDO-AW		Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION NM-FSDO-01	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)							
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.							
1. AIRCRAFT	MAKE Cessna		MODEL 182 R				
	SERIAL NO. 18268375		NATIONALITY AND REGISTRATION MARK N6594E				
2. OWNER	NAME (As shown on registration certificate) Washington State Patrol		ADDRESS (As shown on registration certificate) General Admin. Building Olympia, WA 98504				
3. FOR FAA USE ONLY							
4. UNIT IDENTIFICATION							
UNIT	MAKE	MODEL		SERIAL NO.	5. TYPE		
AIRFRAME	(As described in item 1 above)				REPAIR	ALTERATION	
POWERPLANT						X	
PROPELLER							
APPLIANCE	TYPE						
	MANUFACTURER						
6. CONFORMITY STATEMENT							
A. AGENCY'S NAME AND ADDRESS				B. KIND OF AGENCY		C. CERTIFICATE NO.	
Gary Bade Washington State Patrol 7525-A Old Highway 99 Olympia, WA 98501-5726				<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		A&P532580469IA	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
DATE 3-16-89				SIGNATURE OF AUTHORIZED INDIVIDUAL Gary Bade			
7. APPROVAL FOR RETURN TO SERVICE							
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED							
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)		
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT				
DATE OF APPROVAL OR REJECTION 3-16-89		CERTIFICATE OR DESIGNATION NO. 532580469IA		SIGNATURE OF AUTHORIZED INDIVIDUAL Gary Bade			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Removed original wing tips.
2. installed R.M.D. wing tips with recognition lights, and installation kit in accordance with STC SA4337NM installation instructions. Electrical load within limits. Equipment list and weight and balance updated to reflect this change.

Nothing Follows

☐ ADDITIONAL SHEETS ARE ATTACHED

RECEIVED

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				MAR 17 1989 SEA-FSDO-AW		Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)						FOR FAA USE ONLY <input checked="" type="checkbox"/>	
				OFFICE IDENTIFICATION NM-FSDO-01			
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.							
1. AIRCRAFT	MAKE Cessna			MODEL 182 R			
	SERIAL NO. 18268375			NATIONALITY AND REGISTRATION MARK N6594E			
2. OWNER	NAME (As shown on registration certificate) Washington State Patrol			ADDRESS (As shown on registration certificate) General Admin. Building Olympia, WA 98504			
3. FOR FAA USE ONLY							
4. UNIT IDENTIFICATION						5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION		
AIRFRAME	***** (As described in item 1 above) *****						X
POWERPLANT							
PROPELLER							
APPLIANCE	TYPE						
	MANUFACTURER						
6. CONFORMITY STATEMENT							
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY			C. CERTIFICATE NO.	
Gary Bade Washington State Patrol 7525-A Old Highway 99 Olympia, WA 98501-5726			<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER			A&P532580469IA	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.							
DATE 3-16-89			SIGNATURE OF AUTHORIZED INDIVIDUAL Gary Bade				
7. APPROVAL FOR RETURN TO SERVICE							
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED							
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)			
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT				
DATE OF APPROVAL OR REJECTION 3-16-89		CERTIFICATE OR DESIGNATION NO. 532580469IA		SIGNATURE OF AUTHORIZED INDIVIDUAL Gary Bade			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Installed Precise Flight Inc. standby in accordance with airframe STC#SA2162NM and Continental STC#1780NM.

Nothing Follows

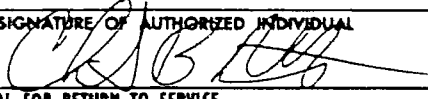

☐ ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS—Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.	
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N6594E	2. AIRCRAFT BUILDER'S NAME (make) Cessna	3. AIRCRAFT MODEL DESIGNATION 182R
	4. AIRCRAFT SERIAL NO. 13268375	5. ENGINE BUILDER'S NAME (make) Continental	6. ENGINE MODEL DESIGNATION 0-470-U
	7. NUMBER OF ENGINES One	8. PROPELLER BUILDER'S NAME (make) McCauley	9. PROPELLER MODEL DESIGNATION C2A34C204/90DCB-8
	10. AIRCRAFT IS IMPORT		
APPLICATION IS HEREBY MADE FOR: (Check applicable items)			
<input checked="" type="checkbox"/> STANDARD AIRWORTHINESS CERT (Indicate category): <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input type="checkbox"/> TRANSPORT <input type="checkbox"/> GLIDER <input type="checkbox"/> BALLOON <input type="checkbox"/> SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items):			
II. CERTIFICATION REQUESTED	LIMITED		CLASS I
	PROVISIONAL (Indicate class)		CLASS II
	RESTRICTED (Indicate operation(s) to be conducted)		AGRICULTURE & PEST CONTROL <input checked="" type="checkbox"/> AERIAL SURVEYING <input checked="" type="checkbox"/> AERIAL ADVERTISING
			FOREST (Wild life conservation) <input checked="" type="checkbox"/> PATROLLING <input checked="" type="checkbox"/> WEATHER CONTROL
	EXPERIMENTAL (Indicate operation(s) to be conducted)		OTHER (Specify)
			RESEARCH AND DEVELOPMENT <input checked="" type="checkbox"/> AMATEUR BUILT <input checked="" type="checkbox"/> EXHIBITION
			RACING <input checked="" type="checkbox"/> CREW TRAINING <input checked="" type="checkbox"/> MKT. SURVEY
	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)		TO SHOW COMPLIANCE WITH FAR
			PERY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE
			EVACUATE FROM AREA OF IMPENDING DANGER
OPERATION IN EXCESS OF MAX. CERTIFICATED TAKE-OFF WEIGHT			
DELIVERING OR EXPORT <input checked="" type="checkbox"/> PRODUCTION FLIGHT TESTING			
C. MULTIPLE AIRWORTHINESS CERTIFICATE (Check appropriate Restricted Operation and Standard or Limited as applicable above)			
A. REGISTERED OWNER (As shown on Certificate of Aircraft Registration)			
NAME Cessna Aircraft Company		ADDRESS 5800 East Pawnee Road Wichita, Kansas 67201	
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)			
X AIRCRAFT SPECIFICATION DATA SHEET (Give No. and Revision No.) 3A13 Rev. 43		X AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.) AD-83-18	
AIRCRAFT LISTING (Give Page No.)		SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)	
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS			
X CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173		TOTAL AIRFRAME HOURS 1.3	
EXPERIMENTAL ONLY—Enter hours flown since last certificate issued or renewed			
D. CERTIFICATION—I hereby certify that I am the owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.			
DATE OF APPLICATION		NAME AND TITLE (Print or type) Gen. Mgr. William A. Boettger, Pawnee Div.	
		SIGNATURE William A. Boettger	
IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: (Complete this section only if FAR 21.191(d) applies)		
	2. FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)	CERTIFICATED MECHANIC (Give Certificate No.)	CERTIFICATED REPAIR STATION (Give Certificate No.)
	5. AIRCRAFT MANUFACTURER (Give Name of Firm)		
DATE		TITLE	
		SIGNATURE	
V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks) I find that the aircraft described in Section I or VII meets the requirements for: <input checked="" type="checkbox"/> The certification requested, or <input type="checkbox"/> Amendment or modification of its current airworthiness certificate. Inspection for a special flight permit under Section VII was conducted by: <input type="checkbox"/> FAA Inspector; certificate holder under <input type="checkbox"/> FAR 65, <input type="checkbox"/> FAR 121 or 127, or <input type="checkbox"/> FAR 145.		
	DATE 11/11/83	DISTRICT OFFICE ICT MIDO	DESIGNER'S SIGNATURE AND NO. By Daniel L. Goble Daniel L. Goble
		FAA INSPECTOR'S SIGNATURE	

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER		
	NAME		ADDRESS
	B. PRODUCTION BASIS (Check applicable item)		
	<input type="checkbox"/> PRODUCTION CERTIFICATE (Give production certificate number) <input type="checkbox"/> TYPE CERTIFICATE ONLY <input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM		
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS:		
	DATE OF APPLICATION	NAME AND TITLE (Print or type)	SIGNATURE
	A. DESCRIPTION OF AIRCRAFT		
	REGISTERED OWNER	ADDRESS	
	BUILDER (Make)	MODEL	
	SERIAL NUMBER	REGISTRATION MARK	
	B. DESCRIPTION OF FLIGHT		
	FROM	TO	
	VIA	DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT		
	<input type="checkbox"/> PILOT	<input type="checkbox"/> CO-PILOT	<input type="checkbox"/> NAVIGATOR
	<input type="checkbox"/> OTHER (Specify)		
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS:		
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment of necessary)		
F. CERTIFICATION —I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Section 301 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations; and that the aircraft has been inspected and is airworthy for the flight described.			
DATE	NAME AND TITLE (Print or type)	SIGNATURE	
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable	<input type="checkbox"/> G. Statement of Conformity, FAA Form 317 (Attach when required)	
	<input type="checkbox"/> B. Current Operating Limitations Attached	<input type="checkbox"/> H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)	
	<input type="checkbox"/> C. Data, Drawings, Photographs, etc. (Attach when required)	<input type="checkbox"/> I. Previous Airworthiness Certificate issued in Accordance with FAR _____ CAR _____ (Original attached)	
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft	<input type="checkbox"/> J. Current Airworthiness Certificate issued in Accordance with FAR 21.183 (A) (Copy attached)	
	<input type="checkbox"/> E. Major Repair and Alteration, FAA 337 (Attach when required)		
	<input checked="" type="checkbox"/> F. This Inspection Recorded in Aircraft Records		

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE			
1. NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3. AIRCRAFT SERIAL NUMBER	4. CATEGORY
N6594E	Cessna 182R	19268375	Normal
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: * - - NONE - - *			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or annulled as provided in the regulations established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventive maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States. DATE OF ISSUANCE: 11/11/83 FAA REPRESENTATIVE: <i>Daniel L. Gable</i> DESIGNATION NUMBER: DOA-PC4			
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.			

7

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION NM-FSDO-61	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE CESSNA		MODEL 182 SKYLANE		
	SERIAL NO. 18268375		NATIONALITY AND REGISTRATION MARK N 6594E		
2. OWNER	NAME (As shown on registration certificate) WASHINGTON STATE PATROL		ADDRESS (As shown on registration certificate) GENERAL ADMINISTRATION BLDG OLYMPIA WASHINGTON 98504		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
AIRCRAFT RADIO SERVICES INC SNOHOMISH COUNTY AIRPORT EVERETT WASHINGTON 98204		<input type="checkbox"/> U.S. CERTIFICATED MECHANIC		#4539 RADIO CLASS 1 & 2 LIMITED	
		<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC			
		<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION			
		<input type="checkbox"/> MANUFACTURER			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE FEBRUARY 3, 1984		SIGNATURE OF AUTHORIZED INDIVIDUAL 			
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		
	FAA DESIGNEE	XX REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AERONAUTICS		
DATE OF APPROVAL OR REJECTION 2-3-84		CERTIFICATE OR DESIGNATION NO. 4539		SIGNATURE OF AUTHORIZED INDIVIDUAL 	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

REMOVED FROM AIRCRAFT A DIRECTIONAL INDICATOR AND C661071-0102 ALTIMETER. INSTALLED THE FOLLOWING RADIO EQUIPMENT IN RADIO PROVISION PROVIDED BY FACTORY : KING KMA-24H AUDIO PANEL, TWO KING KY-196 COM'S, A KING KN-53 NAV, A KING KR-87 ADF, A KING KT-76A TRANSPONDER, A KING KI-525A HSI, A KING KG-102A DIRECTIONAL GYRO, A KING KA-51B SLAVING ASSY., A KING KMT-112 FLUX GATE, A KING KI-203 NAV/LOC INDICATOR, A KING KI-227 ADF INDICATOR, A KR-21 MARKER BEACON, AND A WULFSBERG RT-9600 VHF FM COM WITH C-962A CONTROL HEAD. UNITS INSTALLED AS PER KING AND WULFSBERG INSTALLATION MANUALS AND AS PER FAA AC 43.13-2, CHAP 2, PG 22, 23B & 27. A KING KNS-80 R-NAV WAS INSTALLED AS PER KING INSTALLATION MANUAL AND AS PER FAA AC 90-45A. THE UNIT IS VFR APPROVED ONLY. AN AERO MECH ENCODING ALTIMETER 8140B-20 WAS INSTALLED AS PER AERO MECH INSTALLATION MANUAL AND AS PER FAA AC 43-6 AND FAR 91.36 "b". STATIC SYSTEM CHECK AS PER FAR 23.1325.

A KING KA-44B ADF LOOP ANTENNA WAS INSTALLED AS PER FAA AC 43.13-2, CHAP 3, PAR 38. -- A KING KA-60 DME ANTENNA WAS INSTALLED AS PER FAA AC 43.13-2, CHAP 3, PAR 37. A KA-60 TRANSPONDER ANTENNA WAS INSTALLED AS PER FAA AC 43.13-2, CHAP 3, PAR 37. TWO DMC-70-1 COM ANTENNAS WERE INSTALLED AS PER FAA AC 43.13-2, CHAP 3, PAR 32. A CI-102 MARKER ANTENNA WAS INSTALLED AS PER FAA AC 43.13-2, CHAP 3, PAR 36. A DMN-4-17A ANTENNA WAS INSTALLED AS PER FAA AC 43.13-2, CHAP 3, PAR 34.

ALL POWER WIRES ROUTED THROUGH FUSES AND CIRCUIT BREAKERS.

ELECTRICAL LOAD CALCULATED AND FOUND TO BE IN LIMITS. WEIGHT AND BALANCE DATA ENTERED IN LOG BOOK AND EQUIPMENT LIST UP-DATED.

*** NOTHING FOLLOWS ***

RECEIVED
FEB 7 13 03 PM
100-61

☐ ADDITIONAL SHEETS ARE ATTACHED