



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 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).

<b>1. Aircraft</b>	Make <p style="text-align: center;">Republic</p>	Model <p style="text-align: center;">RC-3 Seabee</p>
	Serial No. <p style="text-align: center;">387</p>	Nationality and Registration Mark <p style="text-align: center;">398CM</p>
<b>2. Owner</b>	Name (As shown on registration certificate) <p style="text-align: center;">Charliemax Corp.</p>	Address (As shown on registration certificate) 1830 Lindberg Lane, Daytona Beach, FL 32124

### 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 F.A.R. 43.7 (b) & (c)

3/25/98 Robert W. Archibald SEA-FSDO

DATE SIGNATURE

### 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				

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### 6. Conformity Statement

<b>A. Agency's Name and Address</b> Don Wallace dba W.E. Aerotech Services Inc. 171 W Sanderson Way, Shelton WA	<b>B. Kind of Agency</b> <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	<b>C. Certificate No.</b> <p style="text-align: center; font-size: 1.2em;">552-76-1362</p>
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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 <p style="text-align: center;">2-20-98</p>	Signature of Authorized Individual 
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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

<b>BY</b>	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 <p style="text-align: center;">4-22-98</p>	Certificate or Designation No. <p style="text-align: center;">552-76-1362</p>	Signature of Authorized Individual 
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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.)*

Installed new instrument panel fabricated from .100 2024 T3 same dimensions and installation method as original (see attached drawing). Panel installation similar to N12CX Ser. #264 (see attached form 337 dated 7-22-93). Installed instruments and equipment include:

#### Main Panel Engine Instruments and Equipment

The following engine instruments are FAA-PMA approved and STC'd as replacements for primary engine instruments. These instruments include range markings as required by T.C. Data Sheet E-284, the Approved Flight Manual and Supplements as required.

- Electronics International (E.I.) R-1 Tachometer (STC SA5924NW)
- E.I. M-1 Manifold Pressure Gauge (STC 5926NM)
- E.I. OPT-1 Oil Pressure / Temperature Gauge (STC SA5925NM)
- E.I. VA-1-50 Volt / Amp Gauge (STC SA2693NM)

The following instruments are FAA-PMA Approved. Fuel pressure indicator calibration was checked by water manometer (deviation at engine low pressure limit less than 5%). Fuel pressure indicator includes high / low limit indicator in accordance with T.C. Data Sheet E-284. Fuel pressure indicator mounted next to discrete redundant low fuel pressure indicator system. Fuel Quantity gauge was calibrated at 0, 1/4, 1/2, 3/4 and Full indication points. Cylinder head temperature calibration was checked (deviation at 212 degrees less than 3%). Installed maximum temperature marking on cylinder head temperature indicator in accordance with T.C. Data Sheet E-284.

- E.I. 5P-5L Fuel Pressure / Flow Gauge
- E.I. FL1CAB Fuel Quantity Gauge
- Insight Gem 610 CHT / EGT (STC'd for similar type aircraft Ref. STC SA157NE)
- Lake and Air Gear Advisory System (STC'd for similar aircraft ref. STC SA39CH)

Avionics and intercom installed by Olympia Avionics (see form 337 dated 5-15-97)  
-S-Tec 55 Programmer / Control and S-Tec Turn Coordinator (This equipment installation is included in STC Project # ST2055SE-A on file at Seattle Aircraft Certification Office, Special Certification Branch).

- Precision Airmotive instrument light dimmer
- Low oil pressure indicator light (redundant system)
- Low fuel Pressure indicator light (redundant system)

Additional Sheets Are Attached

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#### 8. Description of Work Accomplished

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

(Continued- 398CM 2-20-98)

Fabricated overhead panel from 6061 T4 .040 and secured panel to cabin roof main structural crown member. Installation in accordance with AC 43.13-2A Chapt. 1, Par. 4,5,6,7,8,9,10,11 & 12.

#### Upper Panel Equipment

- Sony CDX-5090 Entertainment System
- Davtron M800 clock
- Sherman Aero Depth Finder
- Sonalert bilge level audio indicator
- Avionics circuit breakers

Installed new ships wire harness, electrical switches and circuit breakers. Above listed equipment installed and tested in accordance with manufacturers installation / operation instructions and manuals, reference as follows:

#### Electronics International-

- |                             |                                      |
|-----------------------------|--------------------------------------|
| -R-1 Tachometer             | OI 0517911 Rev. B                    |
| -M1 Manifold Pressure       | OI 0517912 Rev. B                    |
| -OPT-1 Oil Pressure / Temp. | OI 0520911 Rev. B                    |
| -VA-1A Volt / AMP           | OI 041032 Rev. C                     |
| -FP-5 Fuel Press. / Flow    | OI 050931 Rev. E & II 0506931 Rev. F |
| -FL1CAB Fuel Qty.           | OI 0131941 Rev. E                    |

#### Insight-

- |                    |                                   |
|--------------------|-----------------------------------|
| -Gem 610 CHT / EGT | 930320 Rev. 1.02                  |
|                    | Approved Flight Manual Supplement |

#### Lake & Air

- |                       |                                   |
|-----------------------|-----------------------------------|
| -Gear Advisory System | Report 96001A                     |
|                       | Dwg. AGAS-005                     |
|                       | 9600-1A                           |
|                       | Approved Flight Manual Supplement |

-Systems were operated and checked according to manufacturers operating instructions and found not to interfere with any other installed equipment.

-Electrical load for the addition of the above systems has been calculated and found to be acceptable for the alternator output of this aircraft.

-Above equipment installed in accordance with A.C. 43.13-1A Change 3 Chapt. 11, Section 2, Par. 424, 427, 428, 429, 430, Section 3, Par. 443, 446 and 448 and A.C.43.13-2A Chapt. 2, Par. 23a, Chapt. 11, Par. 211, 213 and 214.

Additional Sheets Are Attached

## NOTICE

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### 8. Description of Work Accomplished

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

(Continued 398CM 2-20-98)

Inspection and maintenance for the above equipment should be in accordance with the manufacturers operating, installation and maintenance manuals and guidelines provided in A.C. 43.13-1A Change 3 Chapt. 16, Section 1 and 2.

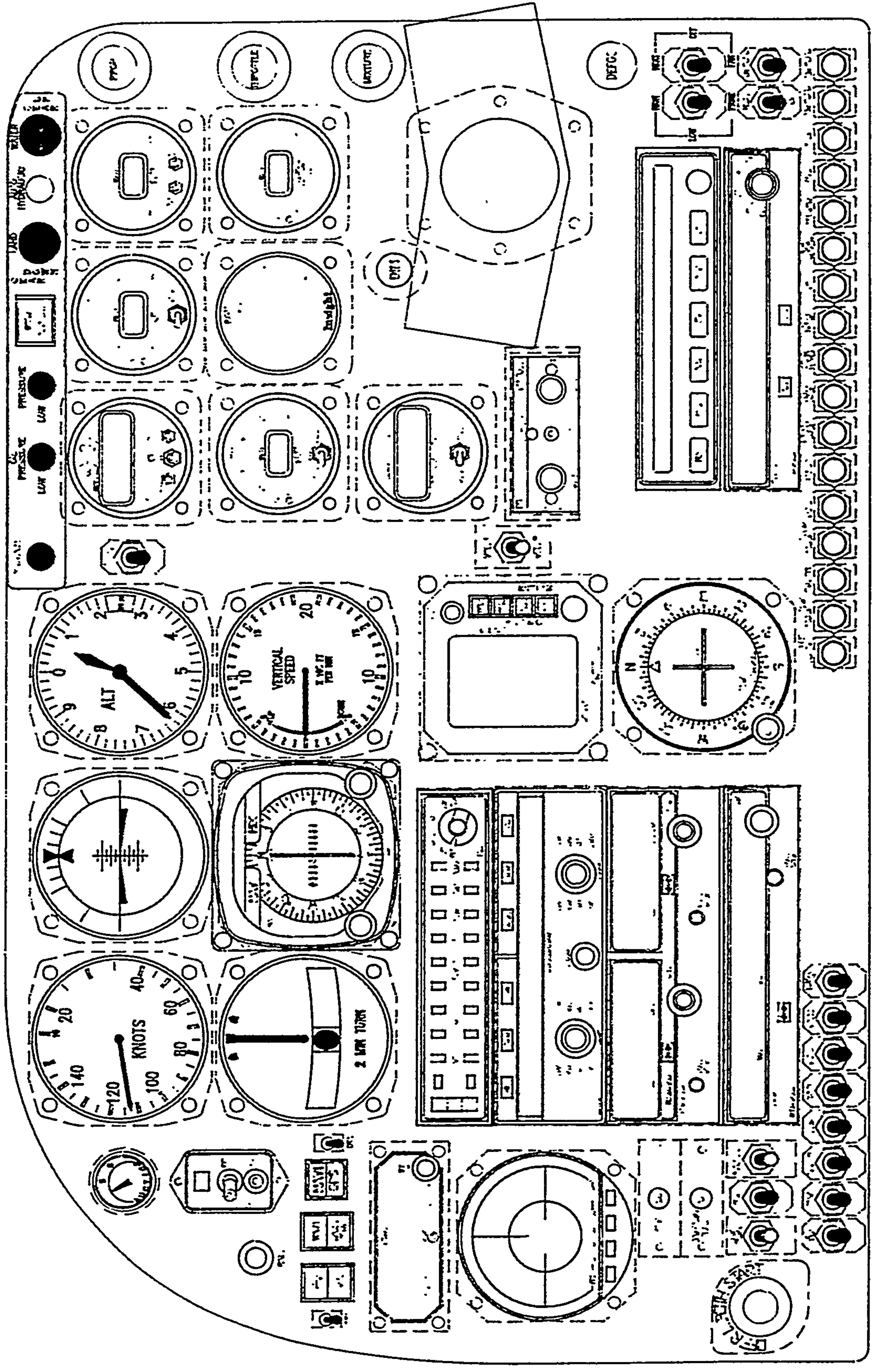
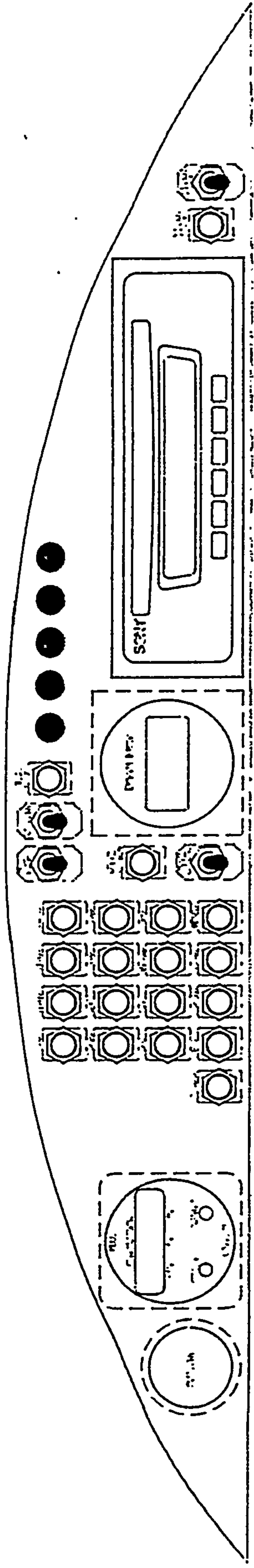
I have determined that this data is appropriate to the product being altered, is directly applicable to the alteration and is not contrary to the manufacturers data.

Weighed aircraft and prepared weight and balance report (see weight and balance report dated 2-20-98)

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END

Additional Sheets Are Attached



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

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.

1. AIRCRAFT	MAKE Republic	MODEL RC-3 Seabee
	SERIAL NO. 264	NATIONALITY AND REGISTRATION MARK N12CX
2. OWNER	NAME (As shown on registration certificate) Crossings Aviation	ADDRESS (As shown on registration certificate) 1302 26th Ave NW Gig Harbor WA

*DATA* FOR FAA USE ONLY  
The ~~airframe~~ 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 F. A. R. 43.7 (b) & (c)  
07-29-93 *Don Wallace* SEA-FSDO  
DATE SIGNATURE

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				

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APR 27 1998  
SEATTLE FSDO-AW

6. CONFORMITY STATEMENT		
A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Don Wallace dba WE Aerotech Services Inc W171 Sanderson Way Shelton WA	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC	552-76-1362
	<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 7-22-93	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Don Wallace</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 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 8-6-93	CERTIFICATE OR DESIGNATION NO. IA 756078	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Don Wallace</i>			

## NOTICE

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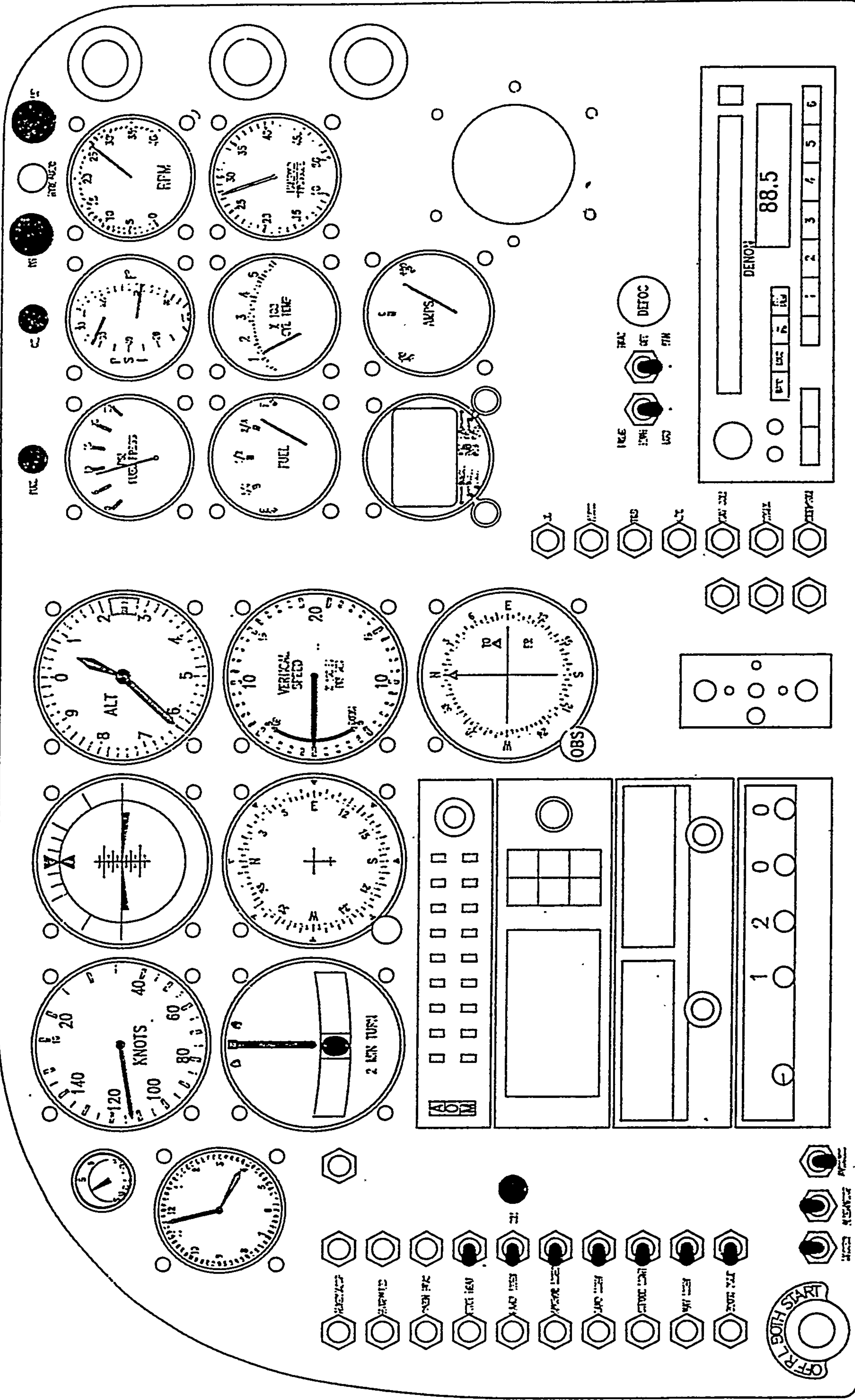
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed new instrument panel fabricated from .100 2024 T3 same dimensions and installation method as original (see attached drawing). Installation done in accordance with A.C. 43.13-2A Chapt. 2, Par. 23A, and Chapt. 11, Par. 211, 213 and 214. Installed new wire harness, electrical switches and circuit breakers in accordance with A.C. 43.13-1A Change 3, Chapt 11 Section 2, Par. 424, 427, 428, 429 and 430 and Section 3 Par 443, 446 and 448. Wire harness routing same as original. This data is appropriate to the product being repaired, is directly applicable to this repair and is not contrary to the manufacturer's data. Main panel and wire harness installation similar to N87553 see FAA Form 337 dated 5-20-92. See weight and balance and equipment list dated 7-22-93.

-----

END

ADDITIONAL SHEETS ARE ATTACHED



FUEL PRESS  
FUEL QTY  
FUEL TEMP

RPM

VERTICAL SPEED

ALTITUDE

FUEL FLOW

HEADING

FUEL PRESS

FUEL QTY

FUEL TEMP

ALTITUDE

VERTICAL SPEED

HEADING

ALTITUDE

VERTICAL SPEED

HEADING

KNOTS

2 MIN TURN

OBS

FUEL PRESS

FUEL QTY

FUEL TEMP

FUEL PRESS

FUEL QTY

FUEL TEMP

FILE  
FUEL  
DIFOC

STOP

BOTH START

DENOM  
88.5  
1 2 3 4 5 6



