



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

*WP-27 MS*

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 <b>Republic</b>	Model <b>RC-3</b>
	Serial No. <b>1000</b>	Nationality and Registration Mark <b>N5166B</b>
<b>2. Owner</b>	Name (As shown on registration certificate) <b>Davey Darrell L Davey Deborah A</b>	
	Address (As shown on registration certificate) <b>6613 Santa Rosa Rd Camarillo Ca 93012-5672</b>	

**3. For FAA Use Only**

*Fuel Flow*

The data identified herein complies with the applicable airworthiness requirements and is approved for the above described aircraft, subject to conformity inspection by a person authorized in FAR 43, Section 43.7

*20 Sep 99*     *Michael Ober*  
DATE                      SIGNATURE                      OAK-FSDO

**4. Unit Identification**

**5. Type**

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				<input checked="" type="checkbox"/>
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

**6. Conformity Statement**

<b>A. Agency's Name and Address</b>  <b>Kenneth L. Thompson</b> <b>PO Box 411</b> <b>Vineburg, Ca. 95487</b>	<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>  <b>545767051</b>
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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 <b>9-20-99</b>	Signature of Authorized Individual <i>Kenneth L. Thompson</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

<b>BY</b>	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 <b>9-20-99</b>		Certificate or Designation No. <b>552273581</b>	Signature of Authorized Individual <i>Douglas E. Smith</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.)*

Republic RC-3 Ser# 1000 N5166B

2. Description: Installed Electronics International Inc. Fuel Flow/Pressure system model FP-5 in instrument panel and part# FT-60 Flow Transducer in fuel line between fuel servo and fuel nozzle as the original location as Lycoming fuel flow modulator and mounted to firewall. Pressure transducer part# PT-100 installed in fuel line and mounted to engine mount with MS21919 clamps. A 1a fuse in a panel mounted fuse holder located underneath instrument panel is used for circuit protection. All work done in accordance with Electronics International FP-5 Installation Instructions manual# II 0506931 dated 5-6-93, rev. G: 4-20-95, AC 43.13 1A, Ch. 11, section 2, para.424, 429, section 3, para. 442, 443, 445 thru 451, fig. 11.7a, section 7, para. 514 thru 520, ch.16, sec.1, para. 868, sec.3, para. 894, AC 43.13 2A, ch.1, ch.11, para.211 thru 214.
3. Control, operation information: Reference Electronics International FP-5 Installation Instructions manual# II 0506931 dated 5-6-93, rev. G: 4-20-95.
4. Servicing information: None
5. Maintenance instructions: Must be inspected annually in accordance with FAR 43 appendix D.
6. Trouble shooting information: Reference Electronics International FP-5 Installation Instructions manual# II 0506931 dated 5-6-93, rev. G: 4-20-95.
7. Removal and replacement information: Reference Electronics International FP-5 Installation Instructions manual# II 0506931 dated 5-6-93, rev. G: 4-20-95.
8. Diagrams: Reference Electronics International FP-5 Installation Instructions manual# II 0506931 dated 5-6-93, rev. G: 4-20-95.
9. Special inspection requirements: None
10. Application of protective treatments: None
11. Data: FAA form 337 attached
12. List of special tools: None
13. For commuter category aircraft: N/A
14. Recommended overhaul periods: No additional overhaul time limitations
15. Airworthiness limitation section: No additional airworthiness limitations
16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA form 337

Pg.1 of 4

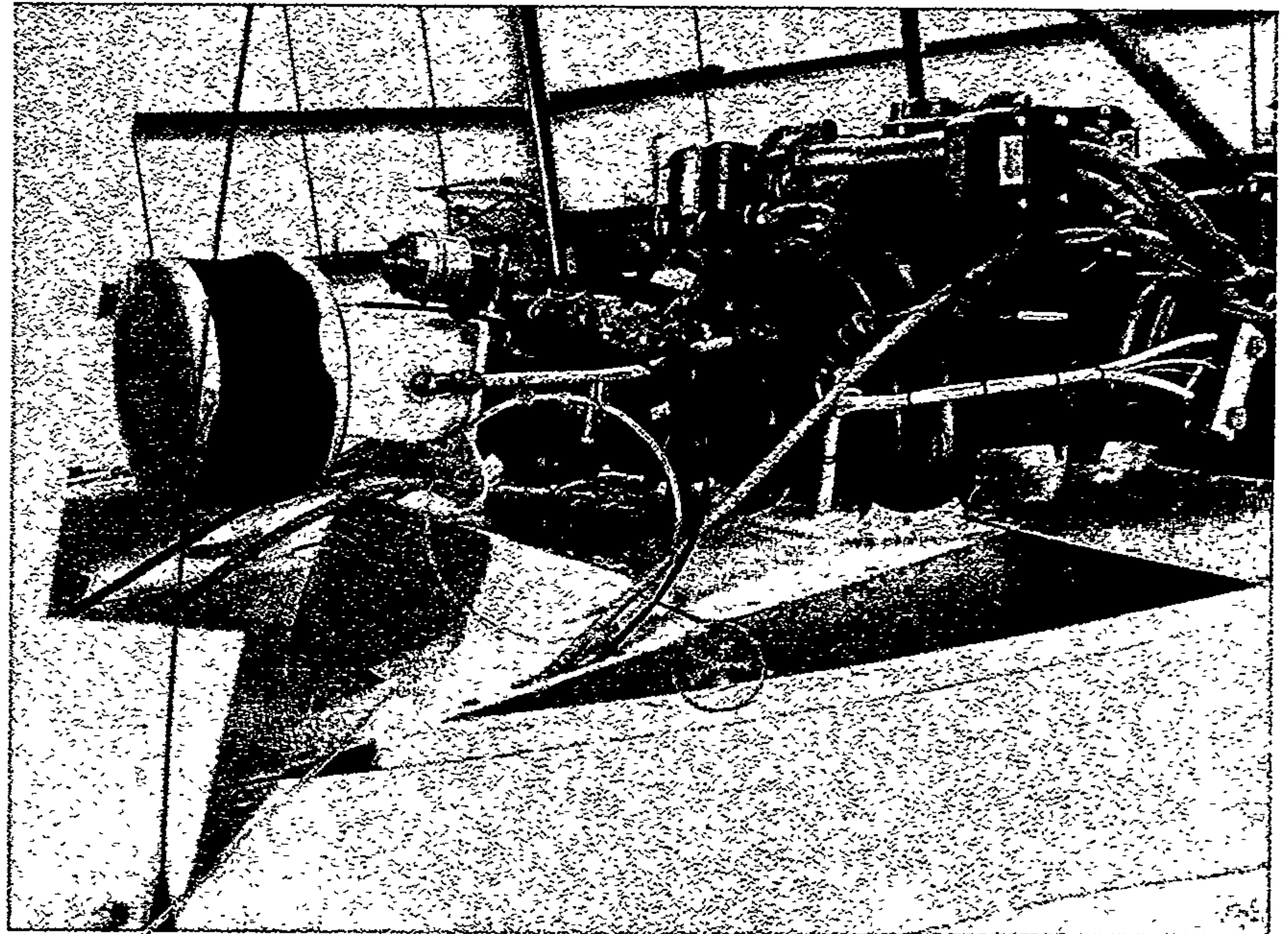
Additional Sheets Are Attached

\*U.S.GPO:1994-568-012/00019

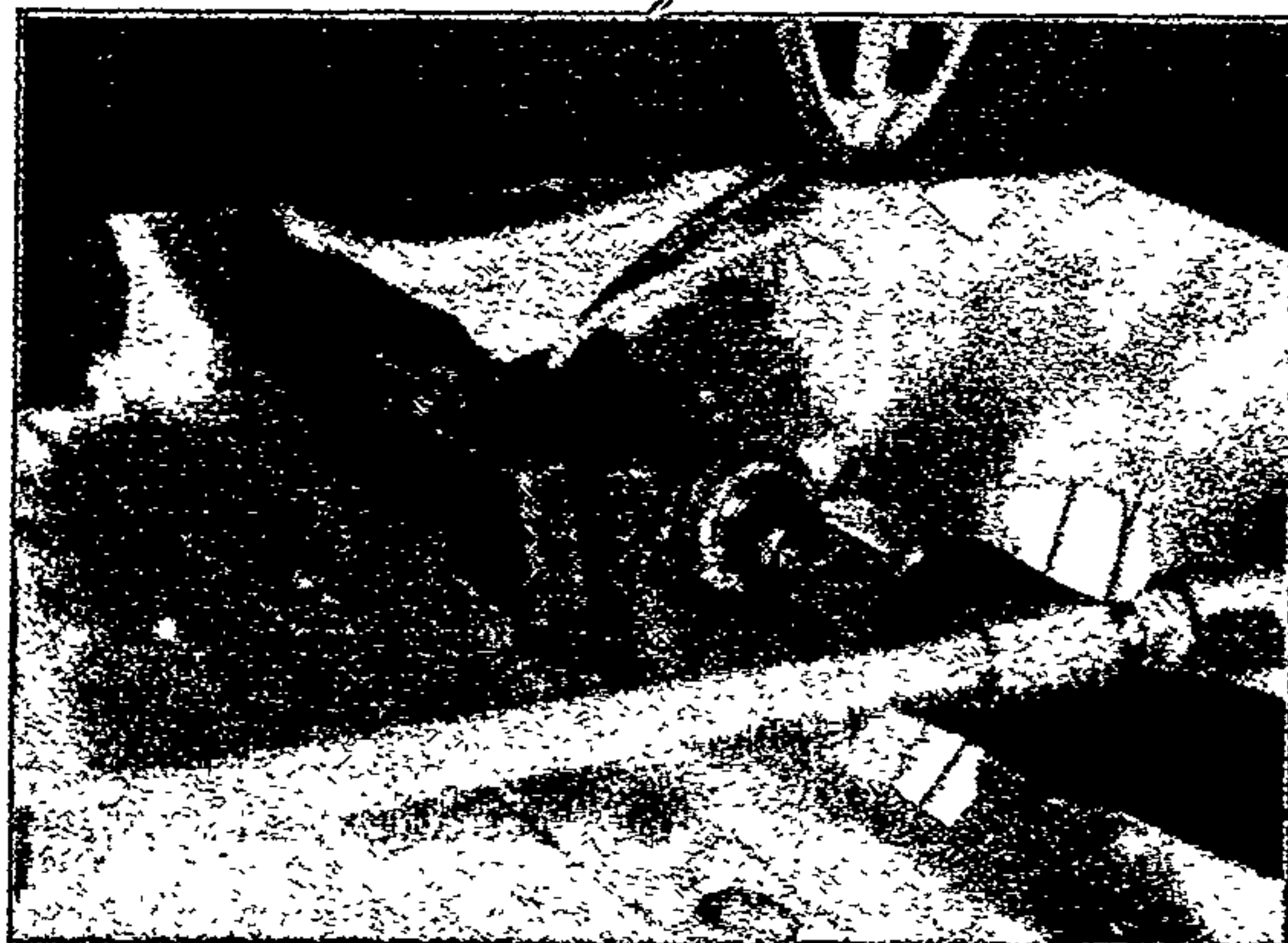


RC-3 N5166B S/N 1000

Location of Electronics International Inc.  
Fuel Flow Transducer, P/N FT-60 and  
Fuel Pressure Transducer, P/N PT-100



\* — Fuel Pressure Transducer  
Located Behind Here

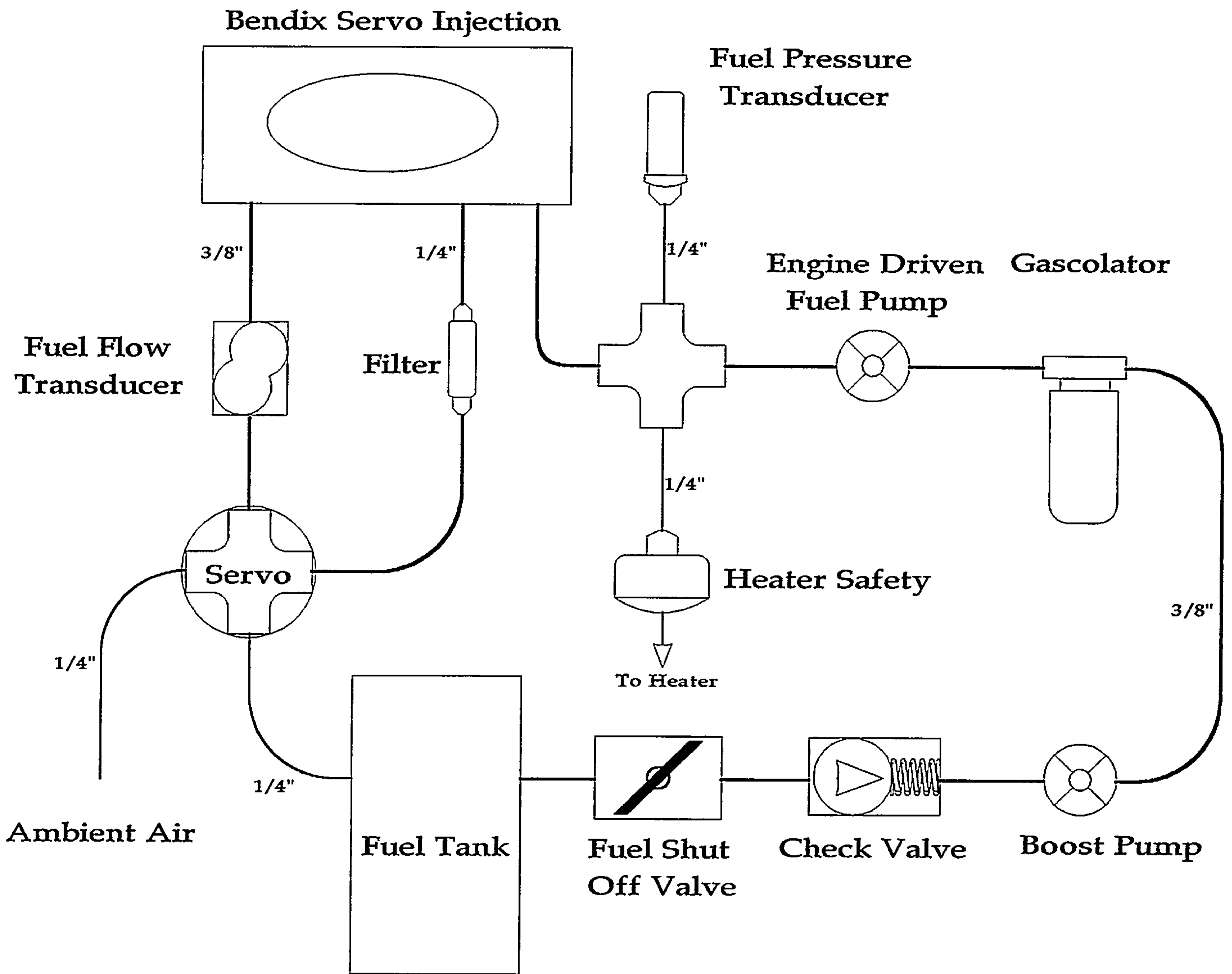


FT-60

9-20-99

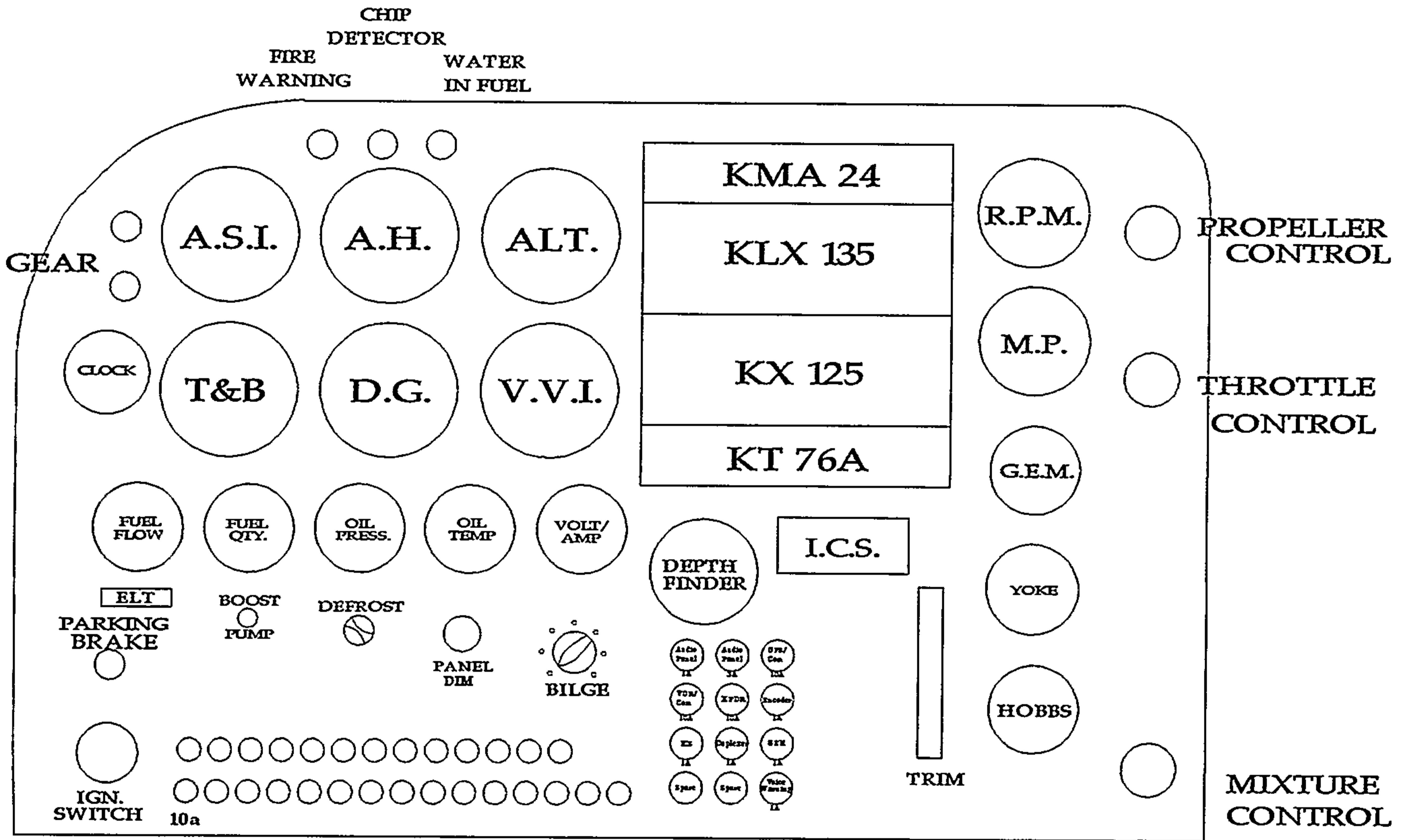
RC-3 N5166B S/N 1000

# Fuel System



All flexible hoses conform to TSO-C53a, Type D

RC-3      SER#1000      N5166B  
 EII Fuel Flow / Fuel Pressure Panel Location



9-20-99