



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

APB WP-27

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

3. For FAA Use Only

<i>Landing Lights</i>	<p style="font-size: 0.8em;">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</p> <p style="font-size: 1.5em; font-family: cursive; text-align: center;">20 Sep 99 <i>M. Thompson</i></p> <p style="text-align: center; font-size: 0.8em;">DATE SIGNATURE OAK-FSDO</p>
-----------------------	--

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				<input checked="" type="checkbox"/>
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Kenneth L. Thompson PO Box 411 Vineburg, Ca. 95487	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. <p style="font-size: 1.2em; text-align: center;">545767051</p>
--	---	---

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 9-20-99	Signature of Authorized Individual <i>Kenneth L. Thompson</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 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 9-20-99		Certificate or Designation No. 552273581	Signature of Authorized Individual <i>Douglas P. 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.)

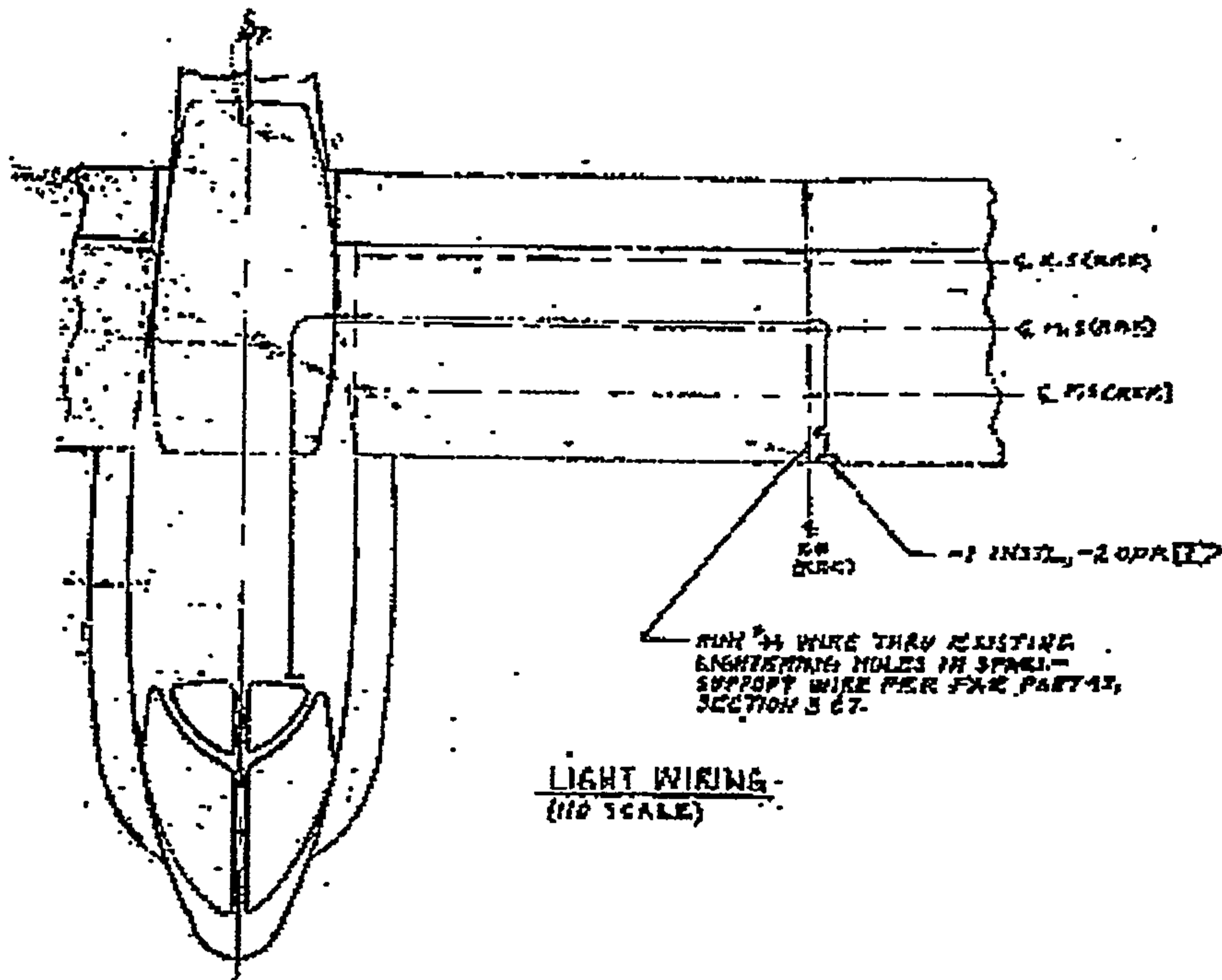
Republic RC-3 N5166B Ser.# 1000

2. Description: Installed Simuflight, Seattle, Inc. dual leading edge 12 v.d.c. landing lights. All work done in accordance with Simuflight, Seattle, Inc, drawing # SP-6000 dated 8-23-95, AC 43.13 1A, ch.2, sec.3, para. 95, 97, 99, fig.2.28, ch. 11, section 2, para.424, 429, section 3, para. 442, 443, 445 thru 451, fig. 11.7a, section 7, para. 514 thru 520, and AC 43.13 2A, ch.1.
3. Control, operation information: None
4. Servicing information: None
5. Maintenance instructions: Must be inspected annually in accordance with FAR 43 appendix D and FAR part 91.
6. Trouble shooting information: N/A
7. Removal and replacement information: None
8. Diagrams: Attached
9. Special inspection requirements: None
10. Application of protective treatments: None
11. Data: None
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 11

Additional Sheets Are Attached

RC-3 N5166B S/N 1000

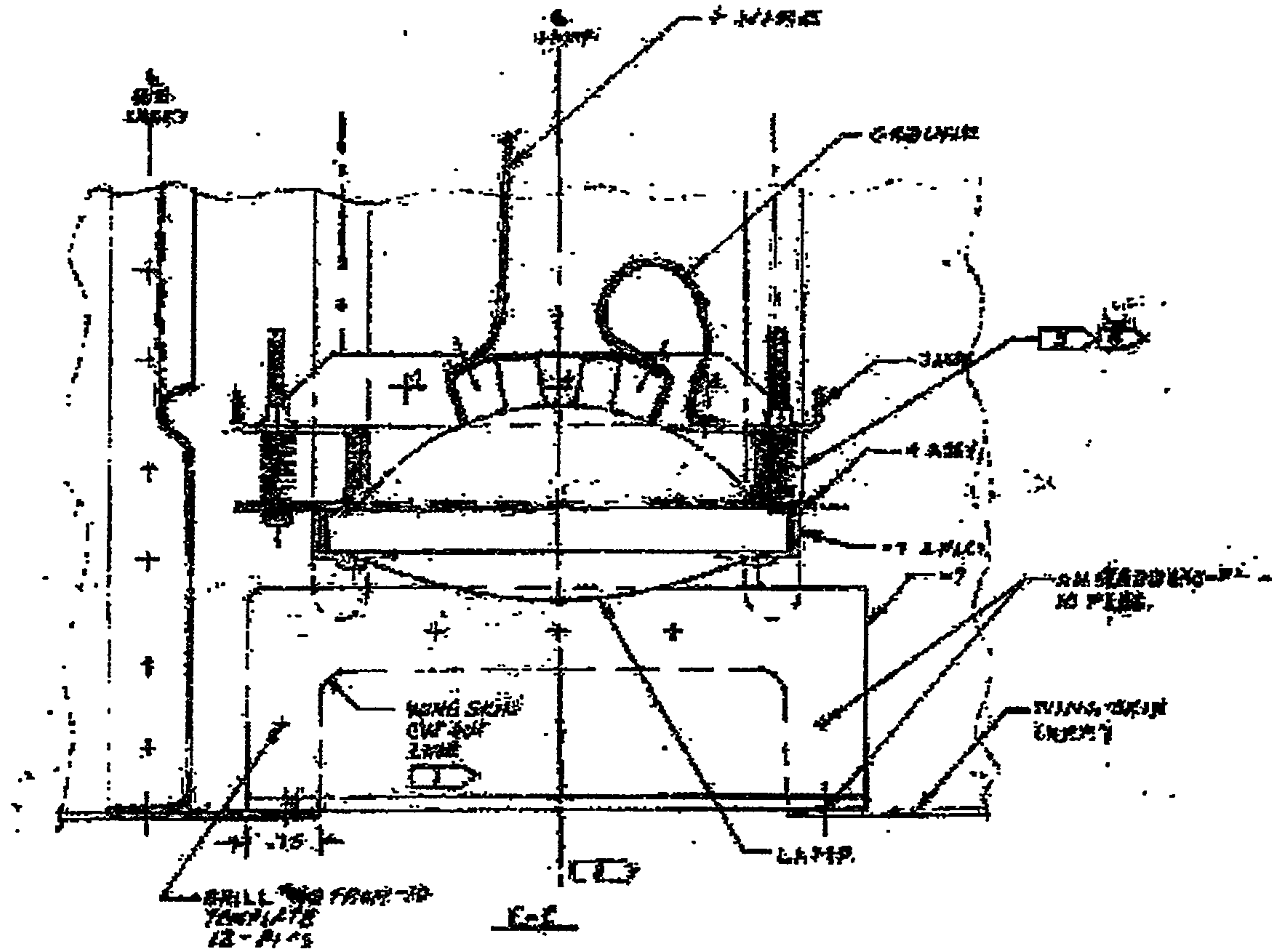


Pg. 2 of 11

9-20-99

RC-3 N5166B

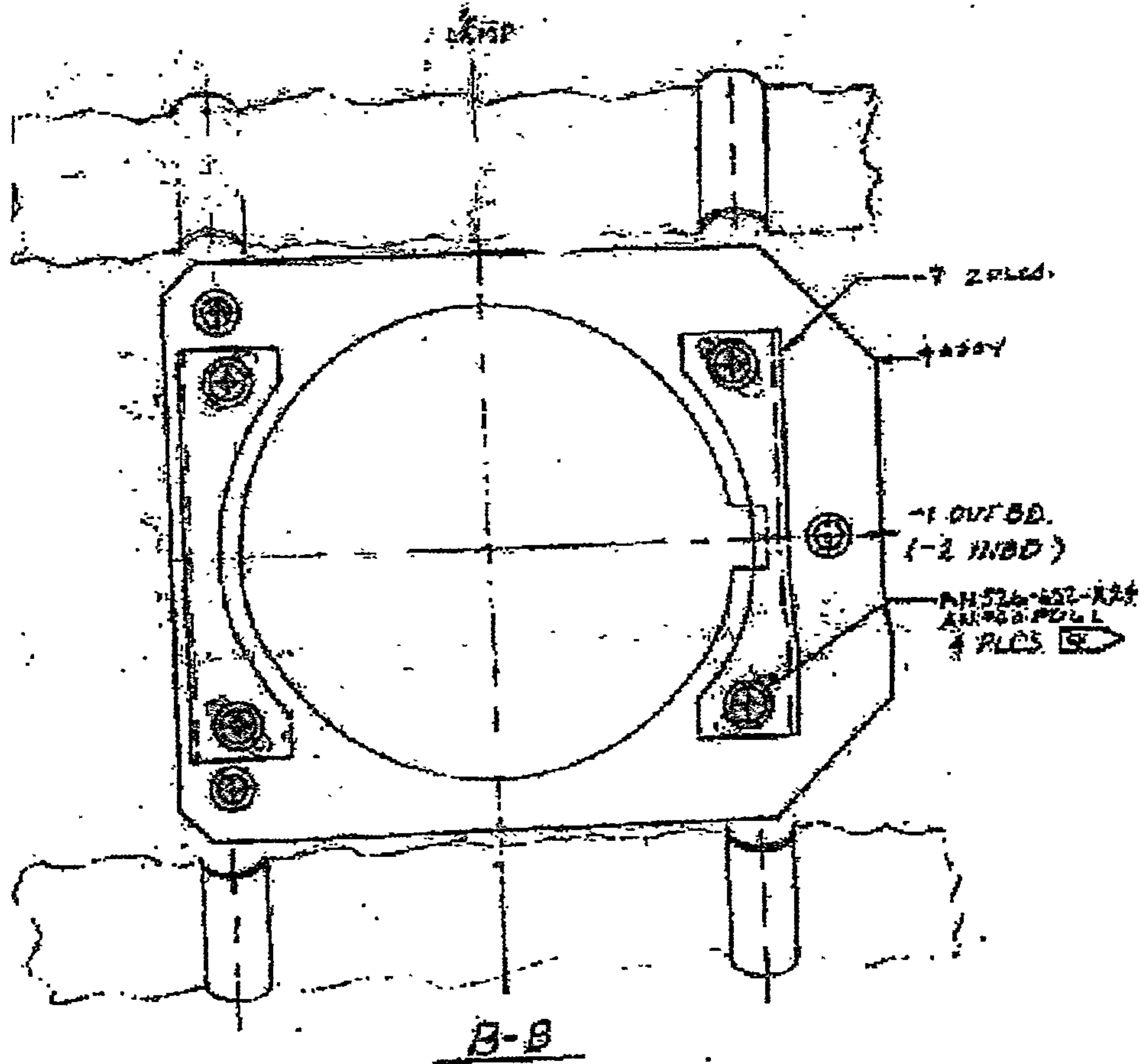
S/N 1000



Pg. 3 of 11

9-20-99

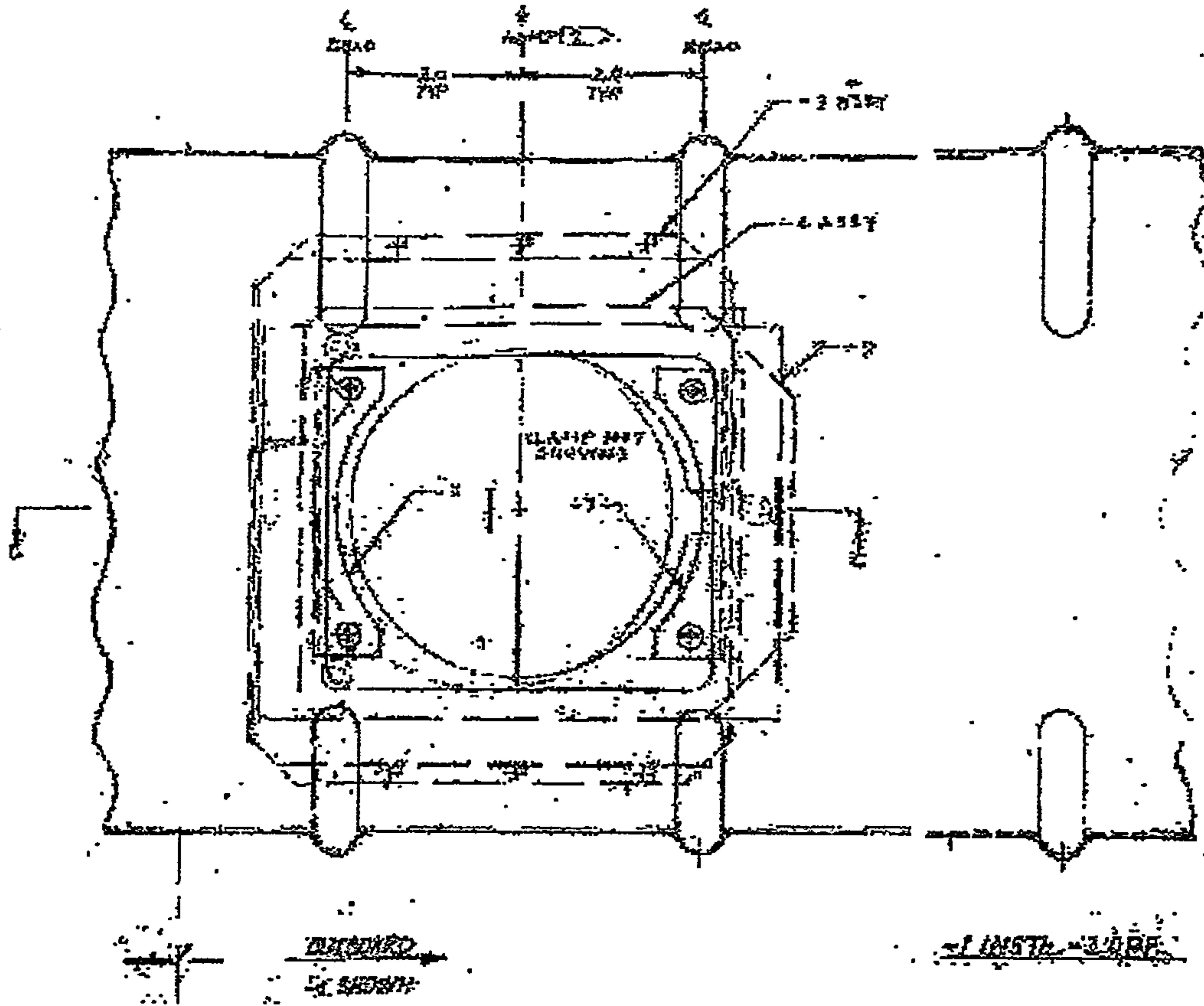
RC-3 N5166B S/N 1000



Pg. 4 of 11

9-20-99

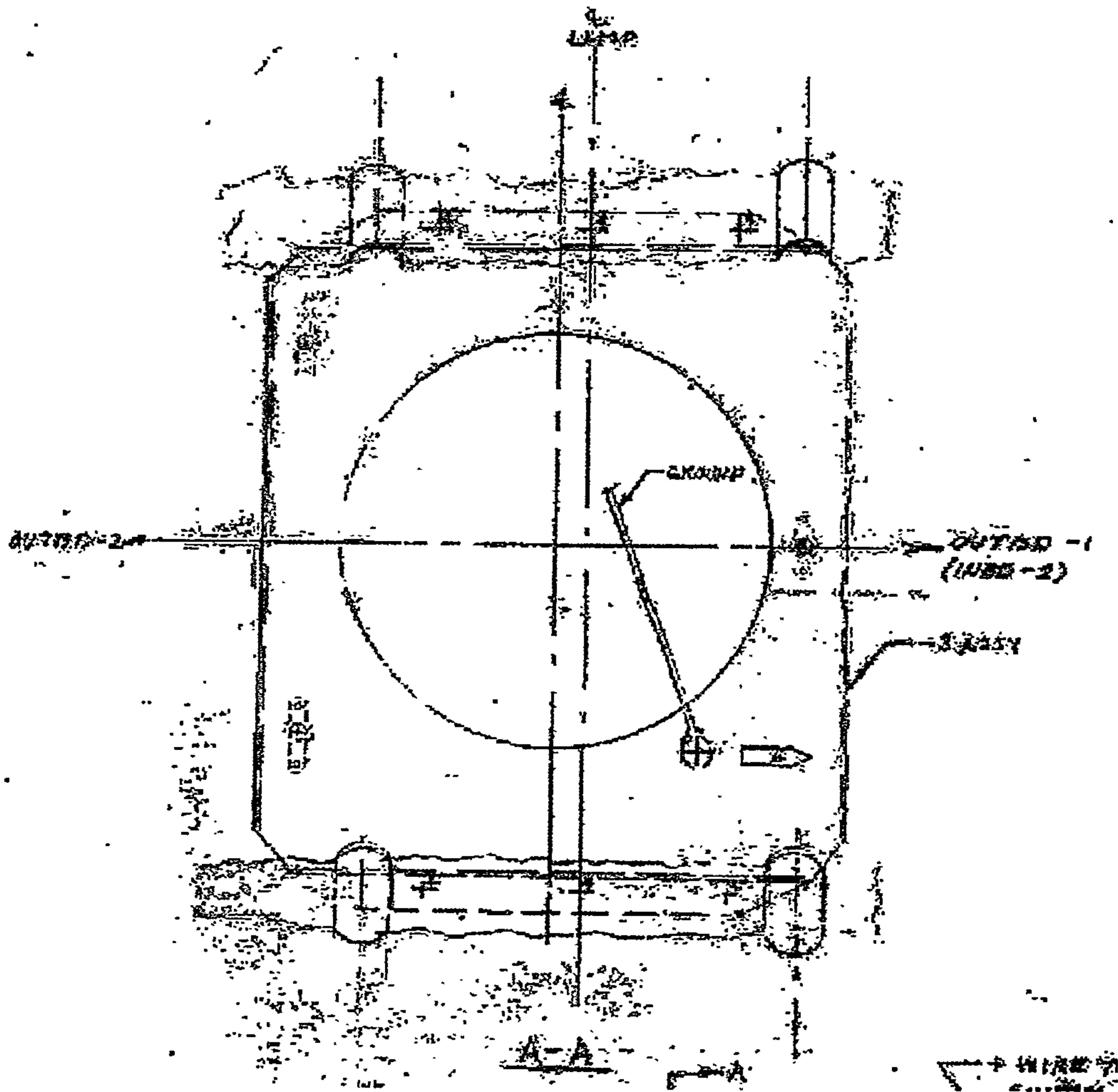
RC-3 N5166B S/N 1000



Pg. 5 of 11

9-20-99

RC-3 N5166B S/N 1000



Pg. 6 of 11

9-20-99

RC-3 N5166B S/N 1000

QTY	DESCRIPTION	PART NUMBER	REVISION	UNIT	QTY
	MARKER	51166000			1
	LENS	62 4507		100W, 12V DC EQUI	1
	SCREW (ALUMINUM)	445628-1022-R25			2
	SCREW	A11526-832-R6			2
	SCREW	445628-612-R25			2
	SCREW	A11526-8040-R6			2
	W/FLATE	44562843			2
	NUT PLATE	44562846			2
	WASHER	44562847			2
	WASHER	44562848			2
	W/FLATE	44562849			2
	W/FLATE	44562850			2
	GROUND WIRE ASSY				1
	EM. WIRE	NS. 12 INSULATED		LEN. W/	2
-10	TEMPLATE				1
-4	LIGHT COVER	125 x 67 x 69		PLEXIGLASS	1
-8	SPRING	NOTED.			8
-7	LAMP CLAMP ANGLES	414-75475-003 EXT.		2024 ALUM. EXC.	2
-6	LAMP SUPT. PLATE	10637435 E.5.10		2024-73	2
-5	LIGHT SUPT. PLATE	10637435 A.7.43		2024-73	2
-4	LAMP SUPT. PLATE ASSY				2
-3	LIGHT SUPT. PLATE ASSY				2
-2	SPR - 1 (RHS)				2
-1	LDG LIGHT INST. (QTY)				1

Part No.	51166000	Stock No.	51166000
Factory Code	44562848 (S/DIA)	Denby	VR
		City	SEATTLE
		Dept	LANDING LIGHT INST
		Scale	1:1
		Part No.	51166000
		Quantity	1
		Unit	EA
		Material	ALUMINUM
		Finish	ANODIZED
		Remarks	SP-6000

9-20-99

RC-3 N5166B

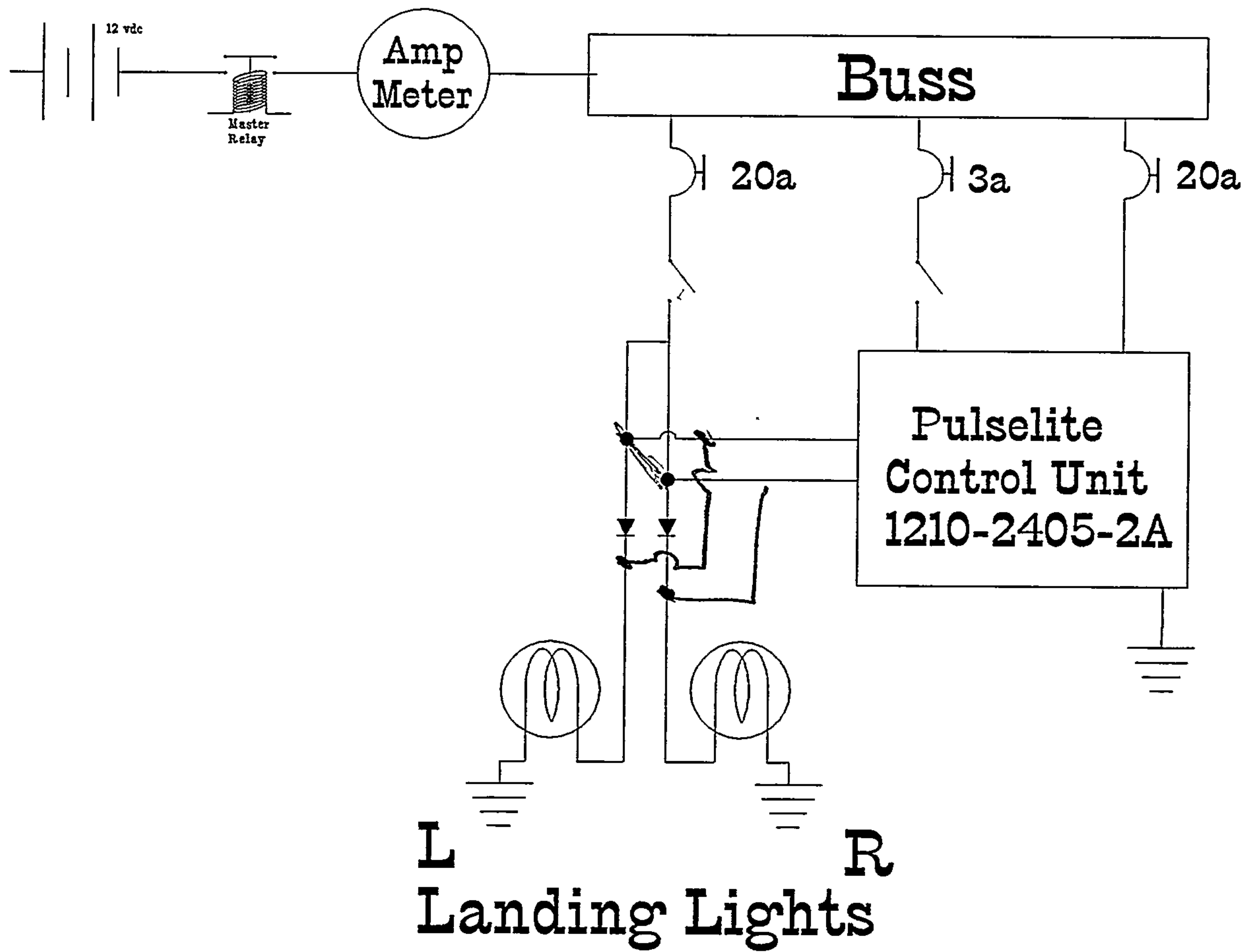
S/N 1000

NOTE: FINISH ALL SURFACES WITH ZINC THROBATE PRIMER OR EQUIV.

1. LOCATE CUTOUT BY INTERPOLATE RELATIVE TO SKIN BEADS TO BEY APPROX 1/2 INCHES FROM END OF INS'D SKIN PANEL.
2. LOCATE C. OF LAMP APPROX 11.5 INCHES FROM INS'D END OF INS'D SKIN PANEL.
3. FORM TO MATCH L.E. CONTOUR.
4. MARK F.T.M. -9 FOR 1/2-20 THREADS DURING INSTALLATION REFER TO INSTALLATION & INSERV. MANUALS.
5. DIMPLES SPACED TO APPROX. 1" BEFORE INSTALLING LAMP. ADJUST AS NECESSARY TO SUIT LAMP AFTER INSTALLATION.
6. REPAIR FINISH TO BEAR UP FOR ELECTRICAL BONDING AT WIRE TERMINAL SECTION.
7. SITE SHOWN FOR INITIAL CUT - TRY TO FIT AFTER FORMING.
8. RECOMMEND TO SUTURE SPACING @ 1/2" - 6/8"
9. TO RETAIN SECURE WHEN CHANGING BULB. FLATTEN END AFTER INSTALLATION.

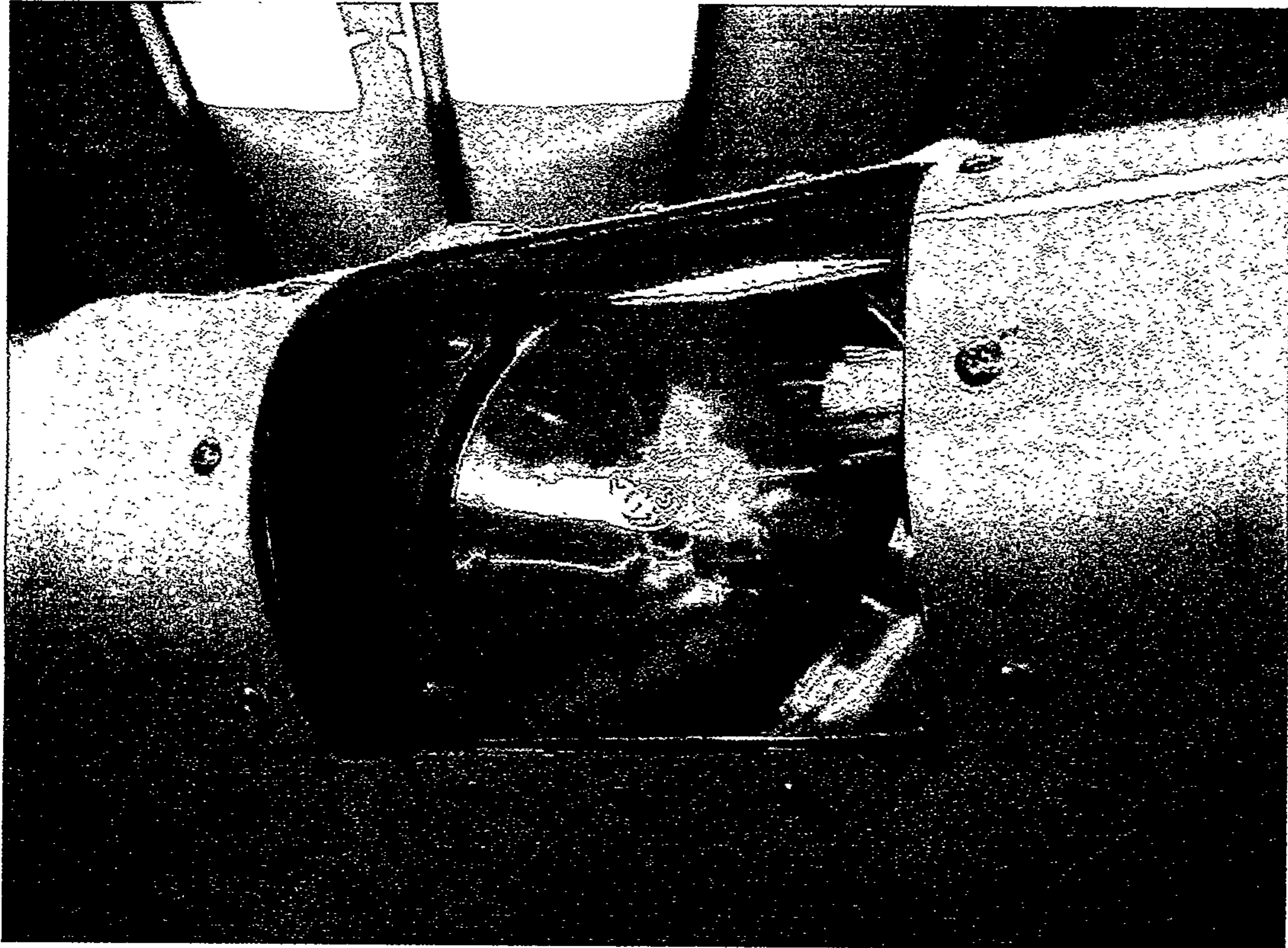
Republic RC-3 Seabee N5166B ser# 1000

Simuflight, Seattle Landing Light Installation



9-20-99

RC-3 N5166B S/N 1000



Page 11 of 11

9-20-99