# US Department of Transportation

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

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).

	34011 000	ii violation (Ge	Chon 301 I Edelal Avia	HUII AC	or or i	930).						
-4 A I		Make Republic Serial No. 1000				Model RC-3						
1. Airc	Craii					Nationality and Registration Mark IN5166B						
		Name (As shown on registration certificate)					Address (As shown on registration certific				<u> </u>	
2. Owner		Davey Darrell L					6613 Santa Rosa Rd					
		Davey Deborah A				Camarillo Ca 93012-56						
					3. F	or FAA Use On	ıly				<u> </u>	
8	Sule	The confo			data identified herein complies with the applicable airworthiness Firements and is approved for the above described aircraft, subject to formity inspection by a person authorized in FAR 43, Section 43.7							
				2:	2 Sec DA	TE SI	IGNATURE	OAK-FSDO	<b>4</b>			
					4. Unit Identification					5. Type		
U	nit		Make	Model			Serial No.		Repair	Alteration		
AIRFRA	IRFRAME			As des	scribed in Item 1 above)							
POWER	PLANT											
PROPE	LLER											
APPLIA	NCE	Type  Manufacturer										
				€	i. Cor	nformity Statem	ent				<u> </u>	
A. Age	ncy's Na	ame and Addre	SS			B. Kind of Agency				C. Certificate No.		
Kenneth L. Thompson					U.S. Certificated Mechanic  Foreign Cortificated Mechanic							
PO Box 411					Foreign Certificated Mechanic  Certificated Repair Station			545767051				
Vineburg, Ca. 95487					Manufacturer							
na	ave been	i made in accoi	d/or alteration made to rdance with the require and correct to the best	ements	of Pa	ert 43 of the U.S	4 above a . Federal	and described on the Aviation Regulation	ne reverse ons and tha	or attachmen at the inform	nts hereto ation	
						Signature of Authorized Individual						
9-22-99					Hen Thomas							
<del></del>					prova	l for Return To	Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner Administrator of the Federal Aviation Administration and is APPROVED   REJECTED											ed by the	
XY -	FAA I Inspe	Fit. Standards ector	Manufacturer		Inspe	ection Authorizat	lion	Other (Specify)				
	FAAI	Designee	Repair Station			on Approved by a						
9->>-9a   Designation No.				Signature of Muthorized Individual								
į.		17	552273581	552273581		Douglas P. Smith						

#### 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.

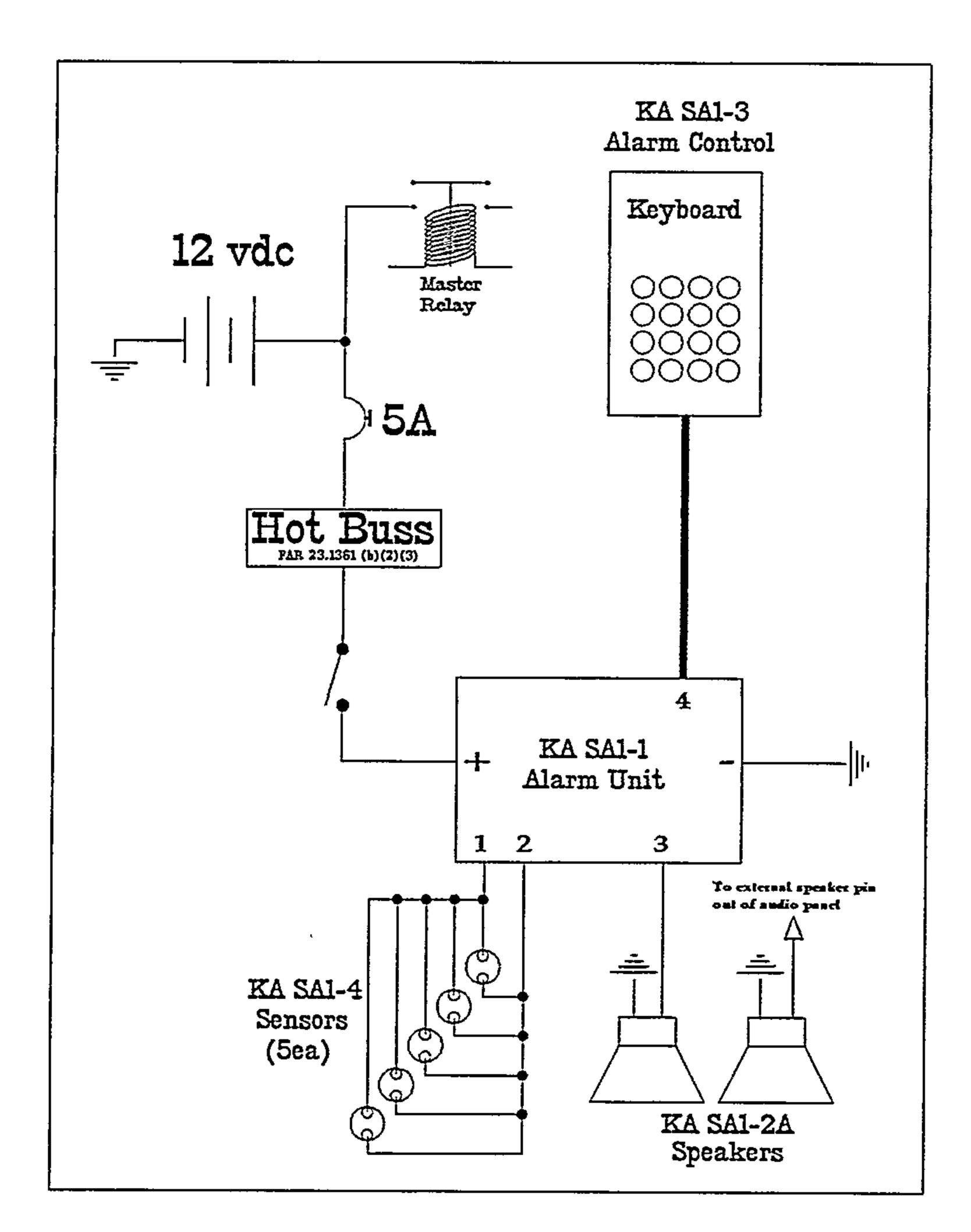
> JUUU #.15C Kebnalic KC-2

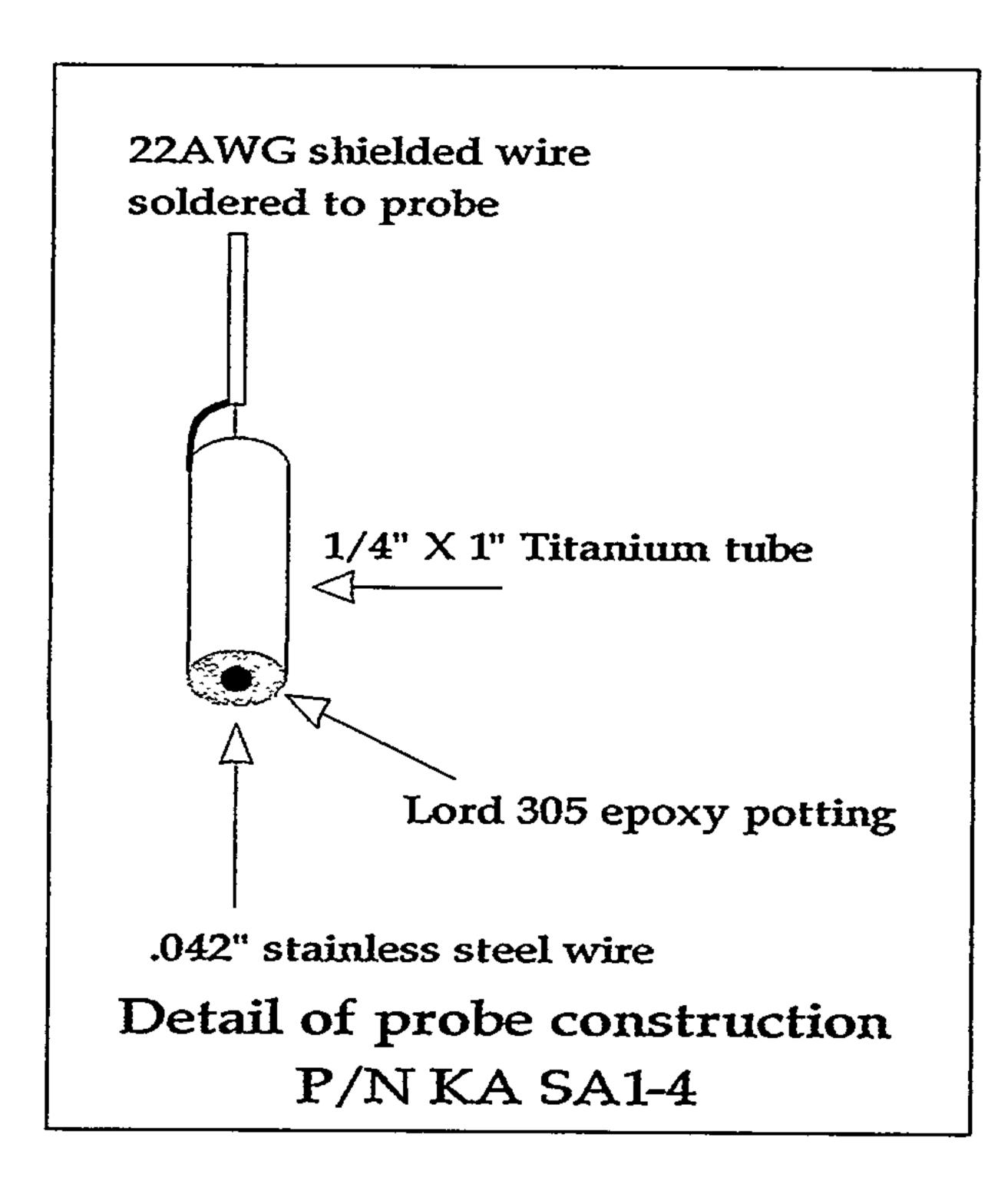
8. Description of Work Accomplished

- Uf more space is required attach additional sheets. Identify with aircraft nationality and cegistration mark and date work completed.)
  2. Description: Installed Kenair model KA SAISinking Alarm. Alarm main unit P/N KA SAI-1 installed to panel light rheostat housing support behind instrument panel with 2 ea. AN525-632 screws. Water detection sensors P/N KA SA1-4 bonded to bottom of fuselage with PRC 1422 B2 polysulfide compound in each water compartment. Alarm/ Speaker P/N KA SA1-2A (2ea.) are rated at 8 ohms for outdoor use, mounted in wing (reference fig.3). Alarm control panel P/N KA SA1-3 mounted to bottom instrument panel on a spring loaded swing out mount with latch to hold control panel in stowed position. Electrical power is taken from hot buss before master switch and is protected by a 5 amp circuit breaker Potter and Brumfield P/NW23X1A1G5. Work done in accordance with AC 43.13 1A, ch.2, sec. 3, para. 95 thru 97, 99, 100, fig. 2.17, 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.
- 3. Control, operation information: Reference KA SA1 Sinking Alarm Operating Instructions Form KA SA1
- 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: None
- 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: Control panel placarded "Use when moored only"
- 16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA form 337

### Republic RC-3 N5166B Ser# 1000

### Sinking Alarm Electrical Installation Diagram





#### Electrical Materials List

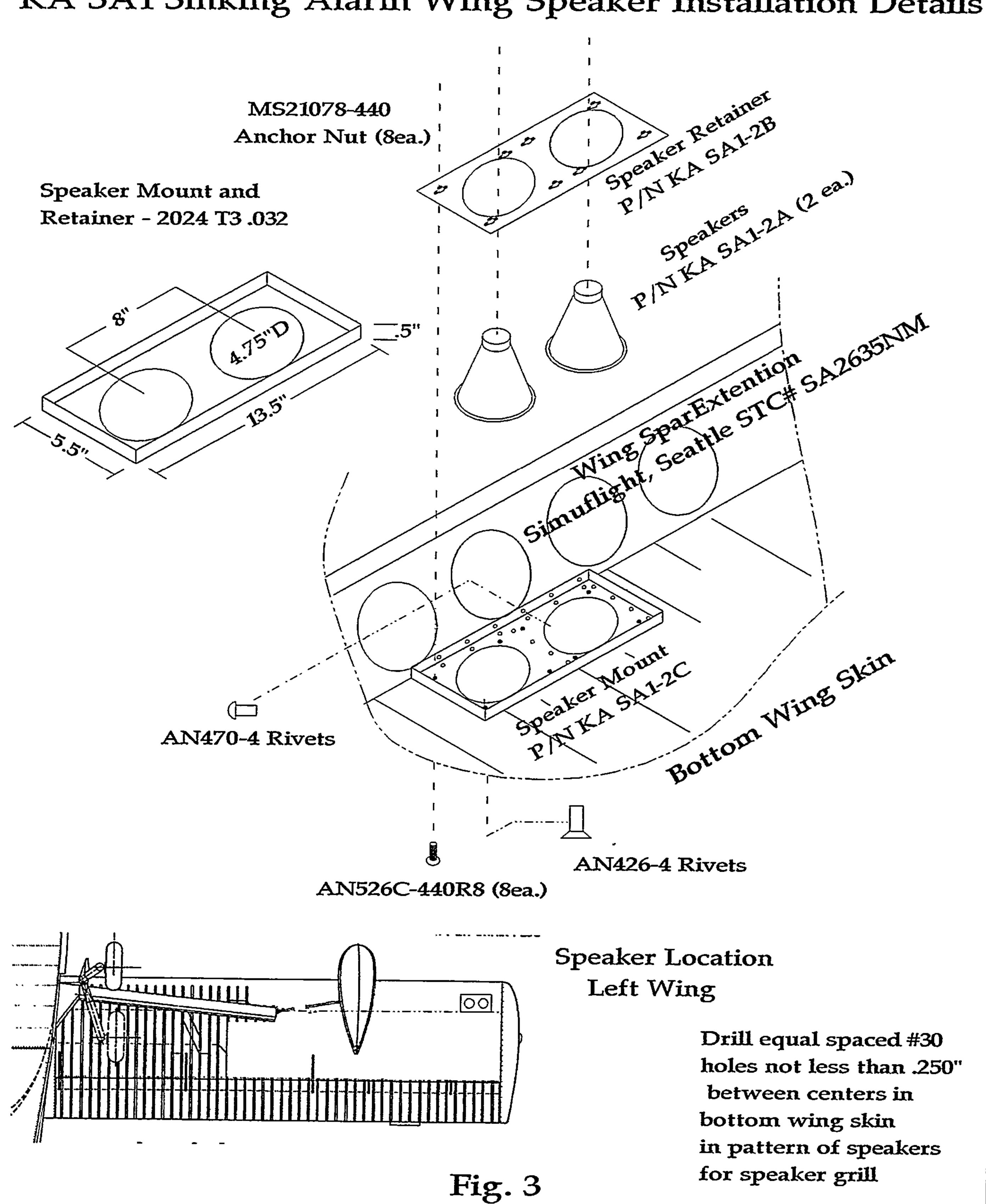
Circuit Breaker Potter & Brumfield W23X1A1G5

Wire - unshielded MIL-W-22759/16 22 AWG Wire - sheilded MIL-C-27500 22 AWG

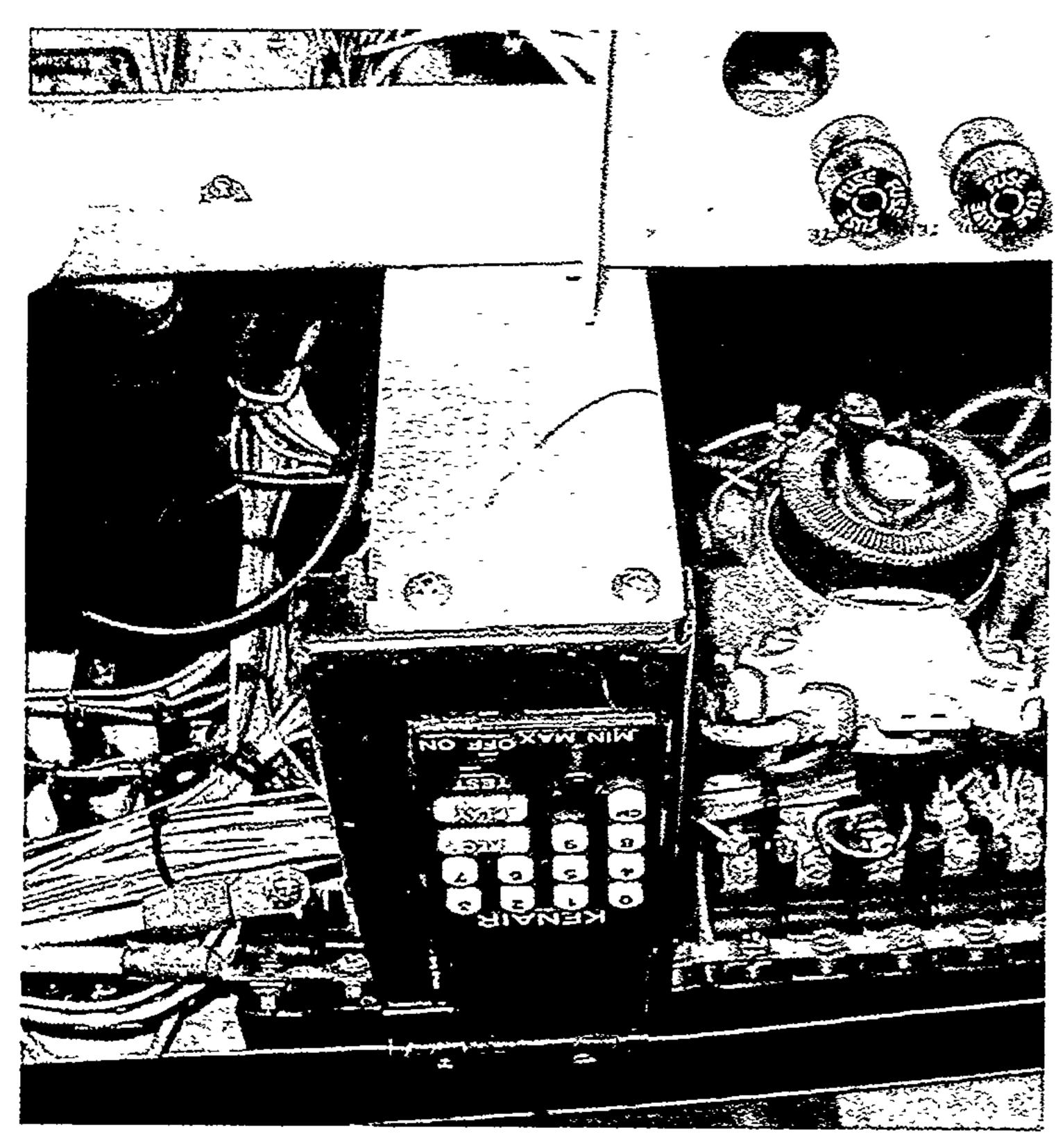
Wire - ribbon Alpha type 3583/14 flat cable 28 AWG

Switch AN3021-2 SPST

#### KA SA1 Sinking Alarm Wing Speaker Installation Details

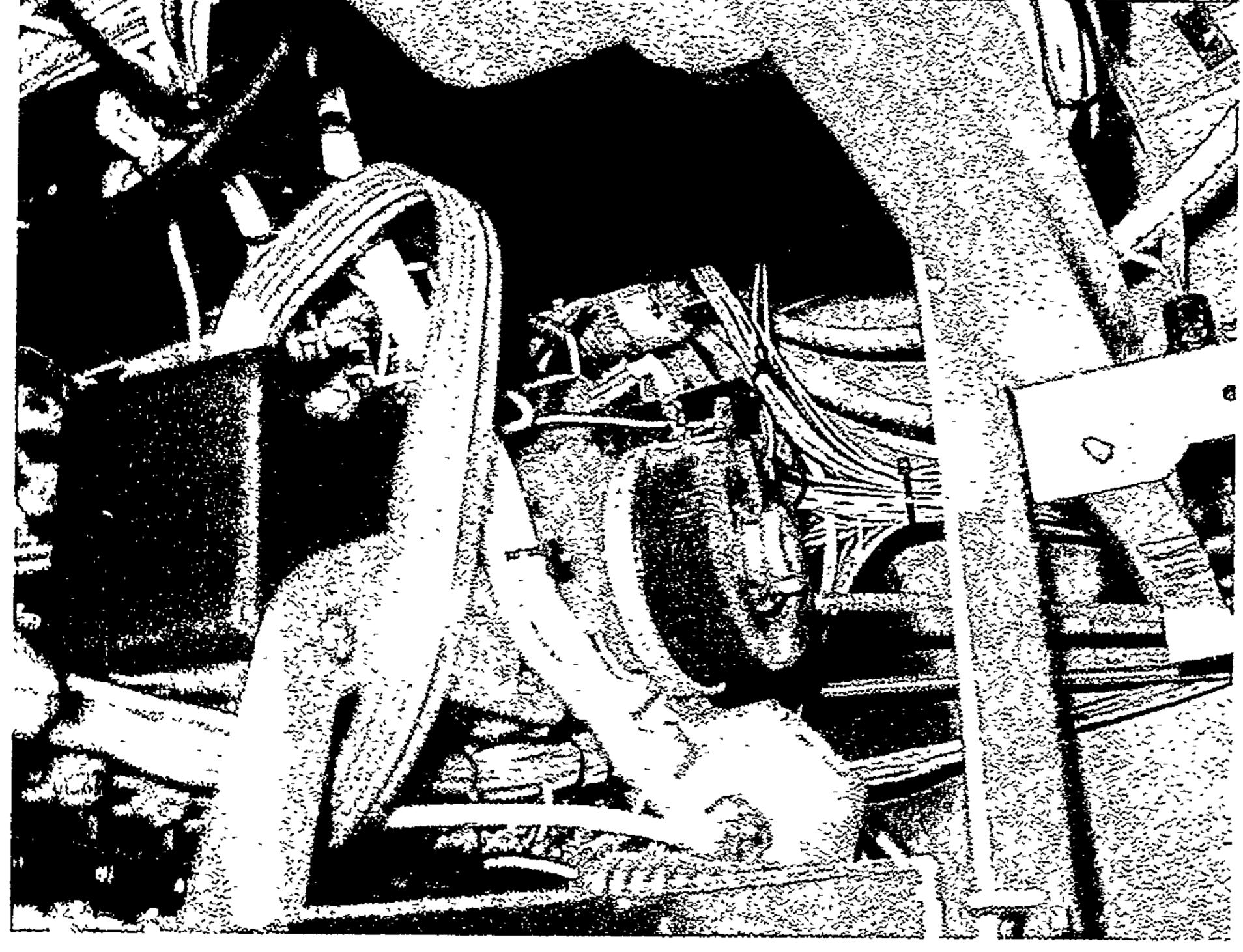


#### RC-3 N5166B S/N 1000



KA SA1-3 Control Keypad under instrument panel in stowed position

Rear control panel support fabricated from .040 2024 T3 aluminum and attached to instrument panel cross brace with 2ea. AN525-632 screws and AN364-632 nuts



KA SA1-1 Warning Unit installation behind instrument panel

9-22-99

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Control panel latch and spring details and Warning Unit installation details