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

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					Model					
	Republic					RC-3					
	Serial No. 1000				:	Nationality and Registration Mark					
	<u> </u>					Addes	<u>N5166B</u>				
	Name (As shown on registration certificate				e) Address (As shown on registration			istration c	ertificate)		
2. Owner	Davey Darrell L				6613 Santa Rosa Rd			a Rd			
	Davey Deborah A			Camarillo Ca 93012-			3012-5	672			
·					For FAA Use Or	ıly					
COM	data identified herein irements and is approve omity inspection by a position by a pos	complies with the applicable for the above described all terson authorized in FAR 43,	Section	43.7							
	DATE		PC-L-OAK-FSI								
			ONNTO		Jnit Identification			·····	T		
Unit							 _	5. Type			
O I II I		lake		-	Model		Serial No) <u> </u>	Repair	Alteration	
AIRFRAME	(As described in Item 1 above)										
POWERPLANT											
PROPELLER											
	Туре			- ···· · · ·							
APPLIANCE	Manufacturer										
	Manacture					İ					
			(6. Co	nformity Statem	ent					
A. Agency's Na	ame and Address				Kind of Agency			C. Certif	icate No.		
K	enneth L. T	hompson		U.S. Certificated Mechanic							
Kenneth L. Thompson PO Box 411					Foreign Certificated Mechanic			5 /	545767051		
Vineburg, Ca. 95487				Certificated Repair Station			<u> </u>	545767051			
				<u> </u>	Manufacturer		<u> </u>		<u>. </u>		
HOAC DECIT	i made in accorda	or alteration made to nce with the require correct to the best of	ments	SOT Pa	art 43 of the U.S	4 above ar . Federal A	nd described on the Aviation Regulation	ne reverse ons and th	or attachmer at the inform	nts hereto ation	
Date				Signature of Authorized Individual							
9-20-99						Thompson					
	<u> </u>	· · · · · · · · · · · · · · · · · · ·			l for Return To						
Pursuant to tander	he authority give of the Federal Av	n persons specified viation Administration	belov n and	v, the	unit identified APPROVED	in item 4	was inspected in JECTED	the mann	ner prescribe	ed by the	
FAA F Inspe	Fit. Standards ector	Manufacturer		Inspe	ection Authorizat	ion	Other (Specify)				
	Designee	Repair Station		Perso	on Approved by da Airworthines:	Transport s Group		· · · · · · · · · · · · · · · · · · ·			
Decignation No.					Signature of Authorized Individual						
9-20-99 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.

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: Replaced original 12v battery with Optima Batteries, Inc. 1000M 12v recombinant battery. Aircraft electrical power generation provided by Jasco 50 amp alternator Skytronics P/N 6560-1 and is compatible with this battery. Work done in accordance with AC 43.13 1A, ch.11, sec.8, para. 539, and AC 43.13 2A, ch.10, sec.2, para. 186, 189.
- 3. Control, operation information: Reference Optima Batteries, Inc. form 110-0007 dated 1/98
- 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: No additional airworthiness limitations
- 16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA form 337

BIE ICE

THE ULTIMATE POWER SOU

Superior Life, Superior Power

At last — the clean, reliable, high-power output and deep cycle characteristics that have made OPTIMA batteries famous are now available for marine applications.

OPTIMA's Marine batteries use the same unique Spiralcell Technology® that outperforms and outlasts conventional flat plate batteries, with a life span two to three times longer than the competition. The OPTIMA design uses high purity lead plates wound with a glass mat that absorbs electrolyte like a sponge.

This design gives the OPTIMA extremely high power, very low internal resistance and other features that translate into the following benefits:

- OPTIMA provides high power output faster and longer than conventional batteries, resulting in greater cranking ability and less capacity reduction at high current loads.
- OPTIMA batteries can be fully recharged in as little as one hour — more than twice as fast as other batteries.
- OPTIMA's Marine Deep Cycle battery has been verified in Life Cycle testing to exceed 350 complete discharges outcycling conventional Marine Deep Cycle batteries by 30-50%.
- OPTIMA won't spill, leak, or corrode; it's the safest, cleanest battery on the market. The OPTIMA can be mounted in any position — sideways, or even upside down.
- OPTIMA lasts two to three times longer than conventional batteries providing years of reliable, convenient performance, and exceptional value. Our high purity lead design provides a much longer shelf life, meaning the OPTIMA can sit unused for up to one year and still start your boat.

No other Marine battery offers the unique advantages of OPTIMA's Spiralcell Technology. Turn this sheet over to review our performance specifications.

You'll agree: there is simply no competition for the OPTIMA Blue Top!



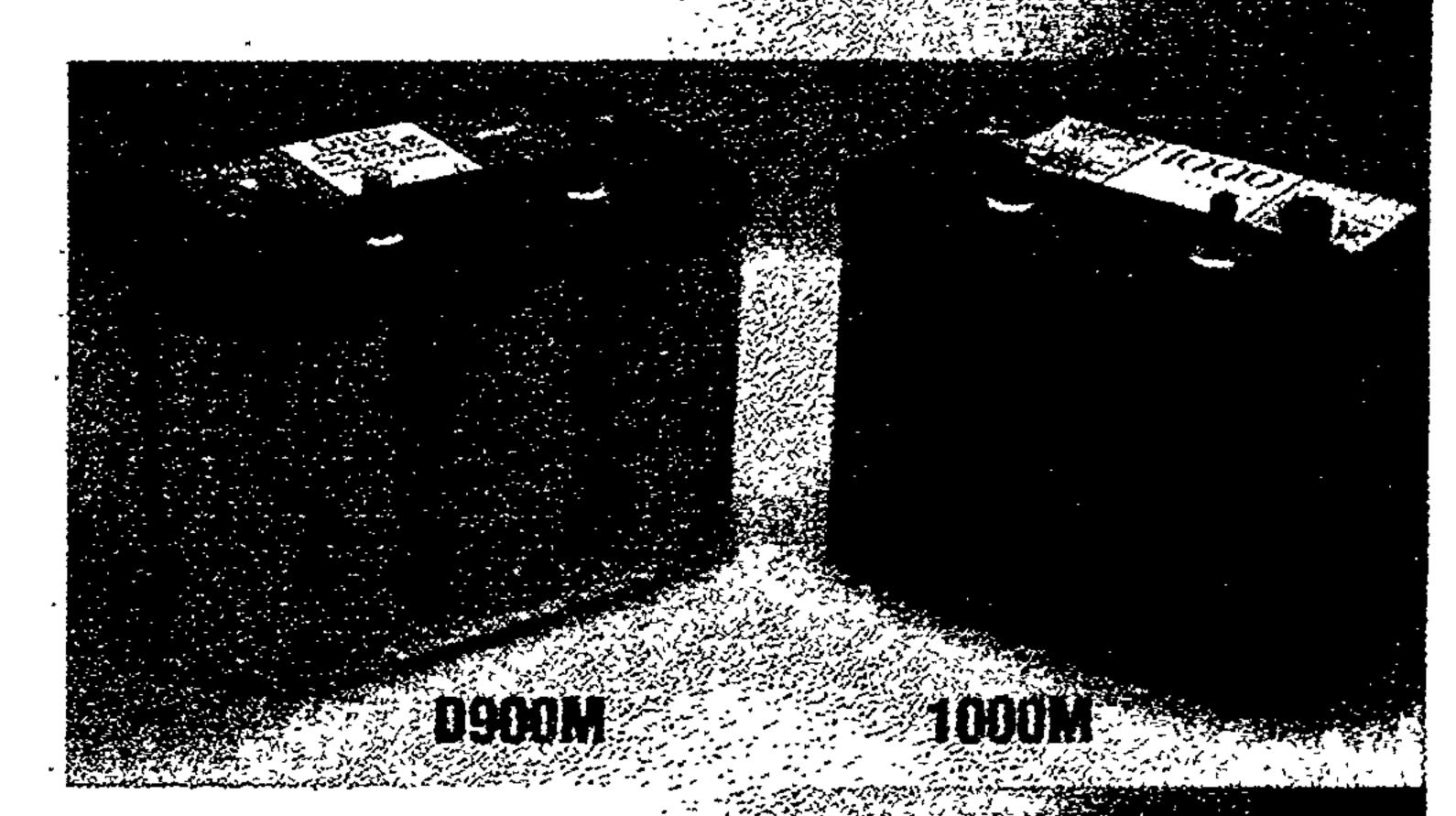
OPTIMA Batteries, Inc.

17500 E. 22nd Avenue / Aurora, CO 80011 Phone (303) 340-7440 / Fax (303) 340-7474 E-mail: sales@optimabatteries.com

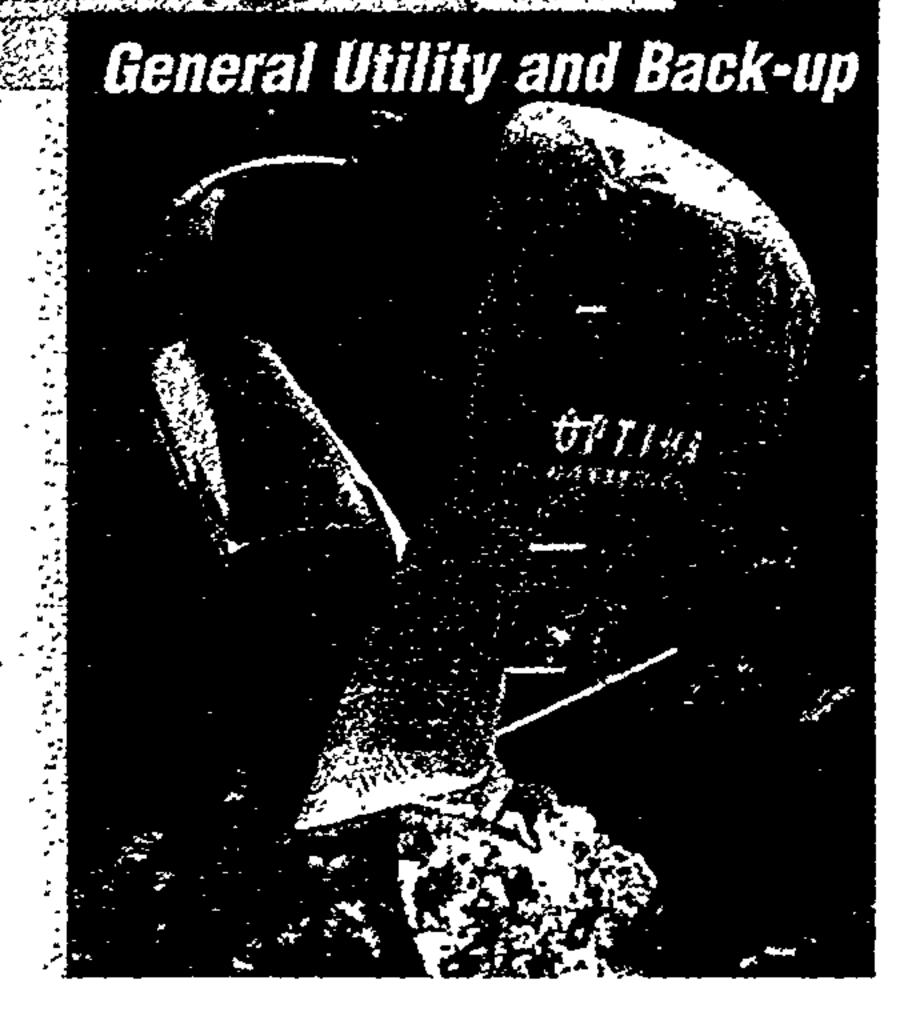
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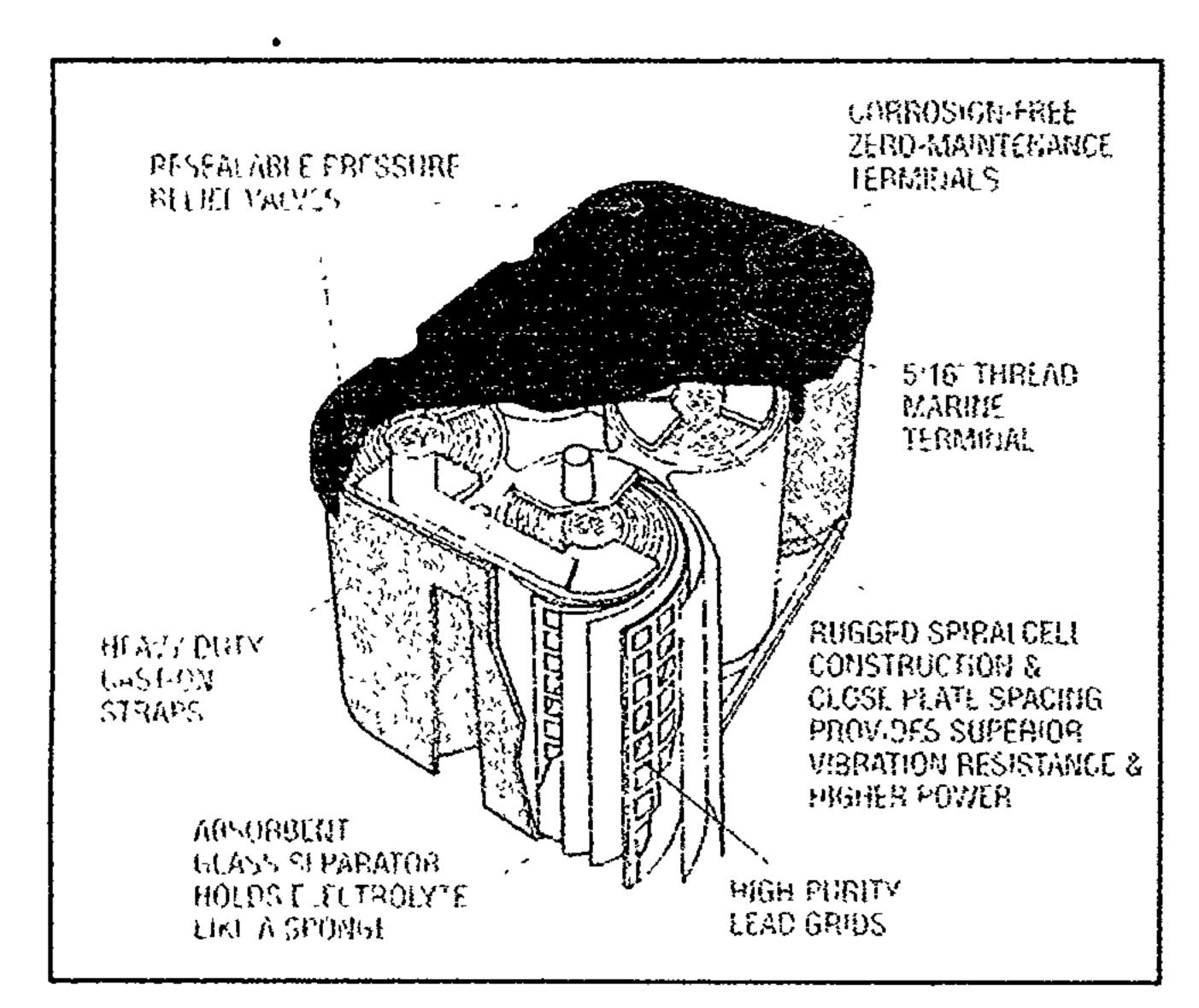
Pa Zofs

High Performance









Only OPTIMA'S SPIRALCELL Technology Offers All These Benefits:

OPTIMA is the most advanced battery available. Our patented Spiralcell Technology provides many features and benefits not found in conventional batteries.

COMPLETELY SEALED/ZERO MAINTENANCE.

With its absorbed electrolyte and sealed construction, the OPTIMA won't cause corrosion or leak. OPTIMA is safer for people, equipment, and the environment, and you never add water!

UNIVERSAL SIZE, FIT & USE.

The OPTIMA fits a wide variety of boats and equipment. The OPTIMA can be mounted in any position, even upside down.

LONGER BATTERY LIFE, GREATER SAVINGS. In performance tests, the OPTIMA lasts longer than conventional, flat-plate batteries.

UNEQUALED VIBRATION RESISTANCE.

Vibration is a primary killer of conventional batteries. OPTIMA's tightly wound Spiralcell design resists jarring and vibration, and eliminates plate shedding.

COMPATIBLE WITH MOST CHARGING SYSTEMS. Unlike gel cells, the OPTIMA does not require special charging equipment.

Available from Authorized Dealers displaying this sign.



FERMINE GREROTTO MONTHERMONT

13 8 to 15 0 volls Alternator:

Battery charger: 13 8 to 15 0 volts. 10 amps maximum. 8-10 hours

(Constant Voltage) approximate

Float Charge: 13.2 to 13.8 volts. 1 amp maximum current

Rapid Recharge: (Constant Voltage charger) Maximum voltage 15 6 volts

No current limit as long as temperature remains below 125°F

Charge until current drops below 1 amp

Recharge time (example assuming 100% discharge – 10.5 volts)

Current Approx. time to 90% charge 35 minutes 100 amps 50 amps 75 minutes 25 amps 140 minutes

Recharge time will vary according to temperature and charger characteristics. When using Constant Voltage chargers, amperage will taper down as the battery becomes recharged. When amperage drops below 1 amp, the battery will be close to a full state of charge.

Cyclic application or series string applications (CV/CC) D900M only:

Constant Voltage with Constant Current finish:

14.7 volts, temperature < 125°F, no current limits. When current falls below 1 amp, finish with 2 amp constant current for 1 hour

For additional charging information contact your distributor, or OPTIMA.

12 months free replacement, remaining 24 months prorated
12 months free replacement. remaining 12 months prorated
1 month
12 months
1.7.4.5.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1

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		DECOM
PERFORMANCE SPECIFICATIONS	STARTING	DEEP CYCLE
Voltage	12	12
Marine Cranking Amps, 32°F	1000	900
Cold Cranking Amps. 0°F	800	750
Reserve Capacity – Minutes	120	124
Capacity (C/2 rate) - Amp Hours	47	52
Capacity (C/20 rate) - Amp Hours	56	65
Battery Power – kW	9.6	9.0
Internal Resistance - Ohms	.0030	.0028
BCI/SAE CYCLE LIFE	N/A	350
PHYSICAL SPECIFICATIONS		
Length (inches)	10	10
Width (inches)	6.8	6.8
Height (inches)	7.8	7.8
Weight (min. lbs.)	38.2	43.5
Type Post/Terminal	Dual. SAE & 5/16" Stainless Stud	Dual, SAE & 5/16' Stainless Stud
BCI Group	34	34
 		

"Specs for a battery that has cycled up to full capacity.

YOUR AUTHORIZED DEALER / DISTRIBUTOR