S.C. Modifications

100 Princeland Court, Suite 1
Corona, CA 92879
Phone: 909-734-4962
FAA R/S # JX3R62IL
FAA Lic. # A&[redacted]

March 12, 2002

To whom it may concern:

On or about the month of August, 2001, Mr. David Stits delivered a Franklin Sport 4 B engine to me. The engine no was SN B947 with case halves SN 20995 & 20996.

The engine was represented to me as having 18 hours since being rebuilt. The owner complained of the engine running hot and using excessive oil (1 quart of oil in 1 hour and 15 minutes.

It was decided that the engine needed to be disassembled to find the cause of the problem. I found the following:

1. All cylinder liners were worn beyond serviceable limits, which allowed for ring end gaps to be excessive. (appx. .095-.105) All cylinder liners were measured to be appx. .040 over new size. New limits for piston ring end gaps are .013 to .023. This was determined to be the cause for overheating and excessive oil consumption. All valve guides were worn beyond serviceable limits. After finding these discrepancies, it was determined that the remainder of the engine be disassembled for inspection and the below noted items were found.
2. All connecting rod and main case bearings were worn out past limits as were the camshaft case bearings.
3. Crankcase halves had excessive amounts of carbon and sludge build up for the amount of time represented after the overhaul.
4. Tack drives gear missing some teeth but apparently still operational. Both the drive and the driver gear need replacement.
5. Carburetor induction plentem chamber had appx. a 2-inch crack, which would allow air to pass the carburetor and add to the excessive overheating of the engine during flight.

6. Cylinders were sent to the Li'l Red Aero, Inc. at 4975 Airport Rd., Kearney, NE 68847 for repairs to bring them back to serviceable condition. A copy of their invoice is attached to this letter.

Total cost to rebuild this engine has not been established, but, it has been estimated to be between $6,500 & $7,000.

Please feel free to contact me for any additional information that you deem necessary.

Sincerely,

Dan Clark

General Manager

S C MODIFICATIONS INC.

400 Princeland #4
Corona, CA 92879
(909) 734-4962
FAX (909) 685-2877
Attn [redacted]

Certified Oil Cooler Services
HARRISON — STEWART WARNER — MODINE

Certified Cylinder Welding
CONTINENTAL — LYCOMING

F.A.A. REPAIR STATION
JX3R621L

INVOICE NO. 11978

SOLD TO Mr. David J. Stiles
STREET & NO. [redacted]
CITY Riverside, CA 92519-3621

SHIPPED TO
STREET & NO.
CITY

CUSTOMER'S ORDER	SALESMAN	TERMS	VIA	F.O.B.	DATE
Verbal					7/10/02

1 ea	Franklin Sport 4B Engine SN Basic 20996 & 20995 Eng SN B 947-				
	Disassemble Engine 4 HRS			200	00
Sub Tot Labour	Crankcase Cleaning & Zyglow Insp.			120	00
	Crankshaft Cleaning & Magnaflux Insp.			95	00
	Con rods, Mag - to be rebushed 4 ea @	32 00		128	00
	1 Set Gears - Mag & Inspected			60	00
	1 Set (4) Cylinders - Rebuilt by LT Rod Accessories (Parts & Labour)		1	718	36
	SCM - Cleaning of parts and Visual inspection - Mask & Painting 8 HRS @	45 00		360	00
	Clean - inspect and Test hydraulic units See @	6 00		48	00

PARTS				
TOTAL LABOR				
SHIPPING & INS.				
C.O.D. $				
SALES TAX				
HAZARDOUS WASTE USE & DISPOSAL				
TOTAL AMOUNT $				

Thank You

S C MODIFICATIONS INC.

400 Princeland #4
Corona, CA 92879
(909) 734-4962

Certified Oil Cooler Services
HARRISON — STEWART WARNER — MODINE

Certified Cylinder Welding
CONTINENTAL — LYCOMING

F.A.A. REPAIR STATION
JC3R621L

INVOICE NO. 11979

SOLD TO Mr. David L. Stites
STREET & NO [redacted]
CITY Riverside, CA 92519-3621

SHIPPED TO
STREET & NO.
CITY

CUSTOMER'S ORDER	SALESMAN	TERMS	VIA	F.O.B.	DATE
Verbal					7/10/02

4ea - Clean, inspect and Measure Pistons & Piston Pins	4 @	15.00		60	00
4ea - Fit New piston rings to cyls & assemble	4@	8.00		32	00
Complete assy Engine (Less accessories)	28 HRS @	50.00		1400	00
Facing Kit Ordered —					
Sup to Fit Red Seal	$66.43				
Crankshaft & Eng Parts	$98.76				
Dowel Pins	$12.28				
Parts Cost Red. 20	$29.45				
	$136.50				

PARTS			879 74
TOTAL LABOR			1221 36
SHIPPING & INS.			136 50
C.O.D. $			
SALES TAX			68 17
HAZARDOUS WASTE USE & DISPOSAL			
TOTAL AMOUNT $			$5,305 77

Pre Paid $4,000.00
Bal $1,305.77

Thank You

S C MODIFICATIONS INC.

400 Princeland #4
Corona, CA 91719-1341
(909) 734-4962

CUSTOMER DAVID STITS W/O# _____ DATE _____

ENGINE TYPE FRANKLIN MODEL SPORT 4B SERIAL # _____

PARTS REQUISITION

QUANTITY	PART #	DESCRIPTION	PRICE	
8EA	17739	ROD BEARING		
3EA	17707	CAM BEARING		
3EA	17708	CAM BEARING		
1EA	17719	MAIN BEARING		
1EA	17720	MAIN BEARING		
1EA	17721	MAIN BEARING		
1EA	17722	MAIN BEARING		
1EA	17727	MAIN BEARING		
1EA	17728	MAIN BEARING		
1EA	21094	MAJOR OVERHAUL GASKET SET		
1EA	21038	SEAL CRANKSHAFT		
4EA	19812	EX VALVE		
8EA	14667	KEY INLET		
8EA	15737	KEY EXHAUST		
4EA	19368	TUBE EX PORT		
4EA	18444	INTAKE VALVE		

C 8023

Li'l Red Aero, Inc.

Aircraft Maintenance & Repair

Not The Largest Just The Finest

4975 AIRPORT RD.
KEARNEY, NEBR. 68847
F.A.A. C.R.S. MS2R016L
PHONE: 234-1635

NAME SC Modifications, Inc.

ADDRESS 400 Princeland #4

CITY Corona STATE CA ZIP CODE 92879

DATE	TIME PROMISED	A.M. P.M.	CUST. ORDER NO.	WRITTEN BY
11/09/01				Don

MAKE AND MODEL	YEAR	MILEAGE	PHONE NO.
Franklin Sport 4			

MOTOR NO.	SERIAL NO.	LICENSE NO.

QUAN.	PART NO. & DESCRIPTION		PRICE
4	19807 Guides	2774	11096
4	18424 Guides	2774	11096
4	18498 Std. Seats	3392	13568
4	26.11.0442 Liners	9250	37000
4	18391 Liner Pins	409	1636
4	19638 Ex.Tubes	6577	26308
8	19635 Ex. Clamps	409	3272
8	19487 Nut	189	1512
1	17742 Gear tach		6291
1	17743 Gear Tach		5548
1	19389 Tab seal		889
1	17414 Tab gasket		177
	OUTSIDE REPAIRS		
		TOTAL	118392
		TOTAL	

OPER. NO.	INSTRUCTIONS	PRICE
1.	Clear & inspect & measure four cylinders, guides	48 00
2.	R&R four liners	300 00
3.	R&R eight guides	72 00
4.	R&R four inlet seats	48 00

I hereby authorize the above repair work to be done along with the necessary material and hereby grant you and/or your employees permission to operate the car, truck or vehicle herein described on streets, highways, or elsewhere for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on above car, truck or vehicle to secure the amount of repairs thereon.

AUTHORIZED BY: X

RECEIVED BY

SECURE RELEASE FOR

INVOICE TO

TOTAL LABOR	468 00
TOTAL PARTS	1183 93
PAINT & MATERIALS	
OUTSIDE REPAIRS	
UPS & Ins	66 43
TAX	
TOTAL AMOUNT	1718.36

INVOICE

CARL F. BAKER COMPANY
P.O. Box 7587
Bend, Oregon 97708-7587

No. 200258

INVOICE DATE: 6-18-2002
CUSTOMER'S ORDER NO.: VERBAL - TONY

SOLD TO:
SC MODIFICATIONS
400 PRINGELAND CT., UNIT #4
CORONA, CA. 92879

SHIP TO:

SALESPERSON	SHIPPED VIA	TERMS	F.O.B.
	UPS	COD	BEND, OR.

QTY. ORDERED	QTY. SHIPPED	DESCRIPTION	UNIT	AMOUNT
1	1	21638 SEAL		$ 21 69
1	1	SPORT 4 RING SET		239 50
				$261 19
		SHIPPING		14 75
		TOTAL		$275 94

TERMS & "CONDITIONS OF SALE" - All material sold under this invoice is surplus and is sold "AS IS" and without warranty expressed or implied; and is not certified for use on aircraft in its present condition. Customer has 10 - day inspection and acceptance after receipt of parts and can return any unused parts for refund within 10 - days after receipt of parts.

NC3812

INVOICE

CARL F. BAKER COMPANY
P.O. Box 7587
Bend, Oregon 97708-7587

SALES ORDER

200245
SHOW THIS NUMBER ON INVOICE, PACKING LIST, LABELS

CUSTOMER ORDER NO.	DATE
VERBAL – TONY	5-24-2002

SOLD TO:	SHIP TO:
SC MODIFICATIONS 400 PRINCELAND CT., UNIT #4 CORONA, CA. 92879	—

CASH	CHARGE	C.O.D.	MDSE. RET'D.	PAID OUT	TERMS	SHIP VIA	F.O.B. POINT
—				—	COD	UPS	BEND, OR

QUANTITY		STOCK NO.	DESCRIPTION	UNIT PRICE	AMOUNT
8	1	17739	STD ROD BEARING – SPORT 4B	14 35	114 80
1	2	21095	STD MAIN BEARING SET – SPORT 4B		279 50
3	3	17707	CAM BEARING – SPORT 4B	18 25	54 75
3	4	17708	CAM BEARING – SPORT 4B	18 25	54 75
1	5	21094	MOH GASKET SET – SPORT 4B		169 50
	6				$673 30
	7			SHIPPING	14 70
	8			TOTAL	$688.00
	9				
	10				
	11				
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	28				

TERMS & "CONDITIONS OF SALE" - All material sold under this invoice is surplus and is sold " AS IS " and without warranty expressed or implied; and is not certified for use on aircraft in its present condition. Customer has 10 - day inspection and acceptance after receipt of parts and can return any unused parts for refund within 10 - days after receipt of parts.

AUTHORIZED SIGNATURE

TOTAL $688.00

Adams 8100