



POPLAR GROVE AIRMOTIVE INC

POPLAR GROVE AIRPORT • 11619 ROUTE 76
POPLAR GROVE, IL 61065 • 815/544-3471

Work Order #- 51

P.O. _____

Acct. # _____

Ship _____

FAA Certified Repair Station

SOLD TO

Name

SHIP TO:

Classic Aviation

Blue Skies over Dub

Pella, Ia

State

50219

Zip

Dubugue, Ia 52001

Rec'd
12-14-12

Due
Out

Terms

Order
Written
By

T
A/C
Hrs.

Hot
26

Eng.
Model
10520BA

Eng.
S/N

121474-7BA

T.T.

T.T.
Smoh

A/C
Model
Bonanza
V35

A/C
S/N

D8581

N #

6245V

Contact

Shane

Preliminary Inspection

Hidden Damage Inspection

Progressive Inspection

OPER.

INSTRUCTIONS

Repairs due to loss of oil

Final Inspection

[Redacted]

Date

1/23/2013

NOT RESPONSIBLE FOR LOSS OR DAMAGE TO AIRCRAFT OR ARTICLES LEFT IN AIRCRAFT, IN CASE OF THEFT OR ANY OTHER CAUSE BEYOND OUR CONTROL.
I hereby authorize the above repair work to be done along with the necessary materials. I hereby grant you an employee permission to operate the aircraft herein described for the purpose of testing and/or inspection. An mechanic's lien is hereby acknowledged on above aircraft to secure the amount of repairs thereto.

Customer
Signature X

WORK SHEET

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS # YYBR664L

Sec: IV

Page: 3

Date: 12-29-06

ENGINE PRELIMINARY INSPECTION RECORD

CUSTOMER	CLAWSON	ENGINE	IO520BA	W.O. #	5199
CRANKCASE	Later style, H/O, hump back, Permod, 74L Stud, Cast # 653920/1 Looks Nice				
CRANKSHAFT (Verification of Rotation L or R)	H049304N, Cast # 649878 MED #1 + #3 RODS BLACK (Junk)				
BEARINGS	STD MAINS/RODS REPLACE ALL MAINS Look Normal RODS Look Stained Replace All				
CAMSHAFT	653058 No distress, All lobes have Metal speckles (Send for Grind)				
TAPPETS	6 NARROW 6 wide most have pitting Replace All				
OIL PUMP	CAST # 632960, nsg Normal, Impellers Look Normal				
PISTON PINS	Normal				
PISTON PIN PLUGS	Strange Lgc style				
PISTONS	SA 63/475 Moderate blow by				
OIL COOLER	N/A's Send for Cleaning				
ROCKER TOES	All start one piece bushing				
VERNATHERM	21719, VO 21081, 77c Normal				
OTHER	CON RODS CAST # 632041 w/ Lg D.A hex head bolts				

DATE 12/19/12

INSPECTOR [REDACTED]

Poplar Grove Airmotive, Inc.

Repair Station Manual

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Title: Forms

Date: 09/26/2008

CLEANING CHECKLIST

W.O. # 5199

Customer: CLASSIC

		INITIAL	CHECKED BY
TOP SHELF	Case halves		
2ND SHELF (Clean items and send to magnaflux)	Crankshaft		
	Camshaft		
	Steel for magnaflux		
	Gunk basket parts (lifters, pushrods, screens, drain tubes, etc.)		
	Hardware		
	Other (list): _____		

3RD SHELF			
	Accessory housing		
4TH SHELF	Misc. aluminum and non-magnafluxed steel		
	Misc. aluminum and non-magnafluxed steel		
	Sump		
5TH SHELF	Accessories: <u>MAGS</u> , <u>STARTER</u> , <u>FUEL SYSTEM</u> , <u>PROP GOV</u> , <u>INJ NOZZLES</u>		
	Other: <u>HARNESS</u>		
5TH SHELF	Miscellaneous Parts		
	Accessories		
	Junk box and parts returned to customer		

DATE: 12/20/12

INSPECTED BY: [Signature]

Poplar Grove Airmotive, Inc.

Repair Station Manual

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ENGINE INSPECTION RECORD

CUSTOMER Classic Aviation

ENGINE T05208A

S/N N/A

WO # 5199

CRANKCASE	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined surfaces					
2. Studs and tapped holes					
3. Oil passages					
4. Bearing bosses and bushings					
5. Casting					
6. Through Studs					
7. Special repairs / remarks					

ENGINE MOUNT BRACKETS	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined surfaces					
2. Mounting holes					
3. Special repairs / remarks					

CRANKSHAFT	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Main bearing journals * <u>STD</u>	✓				
2. Rod bearing journals * <u>STD</u>	✓				
3. Seal surface	✓				
4. Counterweight bushing					
5. Crankshaft gear					
6. Bolt, gear ret.					
7. Propeller bushings					
8. Sludge tubes					
9. Oil transfer tubes	✓				
10. Bearings					
11. Verification of Rotation	Left	or	Right		
12. Special repairs / remarks					

* Indicate std or MO size

8130 Crank received assembled with Counterweight

COUNTERWEIGHT ASSEMBLY	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Rollers					
2. Snap rings					
3. Washers					
4. Weigh counterweights					
5. Bushings					
6. Counterweights					
7. Special repairs / remarks					

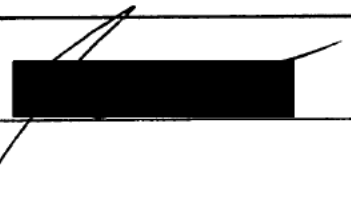
DATE 1-16-13

PROGRESSIVE INSPECTOR

ENGINE INSPECTION RECORD

CUSTOMER Classic AviationENGINE I0520BAS/N 121474-7B4WO # 5199

CRANKCASE	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined surfaces	✓				
2. Studs and tapped holes	✓				
3. Oil passages	✓				
4. Bearing bosses and bushings	✓				
5. Casting			✓	dress gouge left half inside	
6. Through Studs	✓				
7. Special repairs / remarks					
ENGINE MOUNT BRACKETS	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined surfaces	✓				
2. Mounting holes	✓				
3. Special repairs / remarks					
CRANKSHAFT	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Main bearing journals *					
2. Rod bearing journals *					
3. Seal surface					
4. Counterweight bushing					
5. Crankshaft gear <u>2</u>	✓				
6. Bolt, gear ret.		✓		SB97-6B	
7. Propeller bushings					
8. Sludge tubes					
9. Oil transfer tubes					
10. Bearings		✓		SB97-6B	
11. Verification of Rotation	Left or Right				
12. Special repairs / remarks	Crankshaft is Junk Convert New 649895 Crankshaft to 649896 By Swapping 2 #104 rollers for a #101 rollers on #5 cheek				
* Indicate std or MO size					
COUNTERWEIGHT ASSEMBLY	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Rollers	✓				
2. Snap rings		✓		S.B. 97-6B	
3. Washers		✓		S.B. 97-6B	
4. Weigh counterweights	✓			195 ¹⁵) 680.5 + 682 196 ¹⁵) 670 + 671	
5. Bushings	✓				
6. Counterweights	✓				
7. Special repairs / remarks					

DATE 1-16-13PROGRESSIVE INSPECTOR 

Poplar Grove Airmotive, Inc.

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ENGINE INSPECTION RECORD

CUSTOMER Classic Aviation

ENGINE I0520BA

S/N 121474-78A

WO # 5199

VALVE LIFTERS	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Tappets		✓		Pitting	
2. Hydraulic units					
3. Pushrod sockets					
4. Push rods	✓				
5. Shroud tubes	✓				
6. Special repairs / remarks					
CAMSHAFT	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Lobes & journals			✓	sent for grind	
2. Cam gear	✓				
3. Governor drive key	✓				
4. Special repairs / remarks					
ROCKER ARM ASSEMBLY	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Rocker arm-intake	✓				DS
2. Rocker arm-exhaust	✓				DS
3. Bushings	11	1		misaligned with squirt hole	DS
4. Rocker shafts	✓				DS
5. Special repairs / remarks					
CONN. RODS & PISTON PINS	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Bearing bosses	✓				
2. Bushings	✓				
3. Bend or twist	✓				
4. Weighed	✓			①1081 ②1082.5 ③1083 ④1084 ⑤1085 ⑥1081	
5. Piston pins and plugs	✓				
6. Bearings		✓		S.B 97-6B	
7. Special repairs / remarks Rod #4 Junk Large ends good, within .0005					
OIL PUMP ASSEMBLY	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Housing	✓				
2. Driving impeller	✓		✓	S.C. .002 T.C. .0025 replace pin	
3. Driven impeller	✓			S.C. .002 T.C. .0025	
4. Drive shaft					
5. Special repairs / remarks					

DATE 1-16-13

PROGRESSIVE INSPECTOR

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ENGINE INSPECTION RECORD

CUSTOMER Classic Aviation

ENGINE IO520BA

S/N 121474-784

WO# 5199

ACCESSORY GEAR TRIM	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Fuel pump drive gear/shaft	✓				
2. Vacuum pump gear					
3. Idler gear shaft (s)					
4. Idler gear (s)	✓				
5. Tach drive gear/shaft ass'y	✓				
6. Starter drive clutch (TCM)					
7. Mag gear	✓				
8. Mag drive coupling ass'y					
9. Alternator drive gear	✓				
10. Worm drive shaft					
11. Worm drive gear					
12. Prop gov drive shaft					
13. Prop gov drive gear	✓				
14. Prop gov driven gear	✓				
15. Scavenge Pump Gears					
16. Starter ring gear (Lycoming)					
17. Other					
18. Other					
19. Other					
20. Other					
21. Special repairs / remarks					
REAR ACC'Y HOUSINGS, COVERS AND DRIVE PADS					
	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined surfaces	✓				
2. Oil passages	✓				
3. Studs and tapped holes	✓				
4. Fittings					
5. Bearing bosses and bushings	✓				
6. Special repairs / remarks					
SUMP ASSEMBLY					
	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined & mating surfaces	✓				
2. Studs and tapped holes	✓				
3. Oil passages	✓				
4. Fittings					
5. Intake tubes / holes					
6. Special repairs / remarks					

DATE 1-16-13

PROGRESSIVE INSPECTOR [Signature]
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ENGINE INSPECTION RECORD

CUSTOMER Classic Aviation

ENGINE I0520BA

S/N 121474-7BA

WO # 5199

MISCELLANEOUS	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Intake tubes and flanges	✓				
2. Rocker box covers	✓				
3. Oil dipstick	✓				
4. Dipstick housing					
5. Oil cap					
6. Oil filler neck	✓				
7. Oil filter screen pickup	✓				
8. Oil filter adapter			✓	C.W. SB94-2	
9. Inter-cylinder baffles	✓				
10. Baffle springs, hooks, etc.	✓				
11. Fuel inj./primer lines					
12. Fuel inj. / primer nozzles					
13. Hardware and fittings	✓				
14. Vernatherm	✓				
15. Oil cooler				Sent for cleaning	
16. Clamps (all)	✓				
17. Oil transfer collar	✓				
18. Oil pressure relief valve	✓				
19. Oil drain tubes					
20. Sparkplugs			✓	clean + gap	
21. Ignition Harness					

22. Special repairs / remarks

STARTER ADAPTER	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1. Machined surfaces					
2. Studs and tapped holes					
3. Shaft gear drum (size)		✓		CSB 02-2C	
4. Worm wheel gear (size)					
5. Spring (size)					
6. Bearings					
7. Sleeve					
8. Pulley					

9. Special repairs / remarks

OTHER	SERV	REPL	REWK	INSPECTION DETAILS / REASON FOR REPL OR REWK	DETER. BY
1.					
2.					
3.					
4.					
5.					
6.					

DATE 1-16-13

PROGRESSIVE INSPECTOR

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CRANKSHAFT DIMENSIONAL INSPECTION

Title: Forms

Customer: Classic Aviation
 Engine make and model # IO520BA
 Crankshaft S/N _____

WO # 5199

Date: 5/24/2010

Technician [REDACTED] Date: 12-28-2012

ROD JOURNALS

MAIN JOURNALS

STD ☒ Undersize ☐

STD ☒ Undersize ☐

Int.		Diameter	Clearance	Int.
	1	2.2496	.0020	
	2	2.2497	.0022	
	3	2.2497	.0021	
	4	2.2497	.0018	
	5	2.2499	.0024	
	6	2.2498	.0020	
	7			
	8			

Int.		Diameter	Clearance	Int.
	1	2.3745	.0034	
	2	2.3742	.0034	
	3	2.3746	.0032	
	4	2.3743	.0030	
	5	2.3746	.0033	
	6			
	7	Trans. collar		
	8	2.3747 DS	.0013 DS ✓ .0013	

Crankshaft End Clearance .012 Slinger Clearance .018 Transfer Collar ID 2.376
 RUNOUT: Flange ✓ Pilot ✓ Center mains ✓ Camshaft end play .007

COMMENTS: Crankshaft Junk
Received new crankshaft

CRANKCASE VISUAL AND / OR DYE PENETRANT INSPECTION

	Serv	Repl	Rewk	Det by
Visual inspection	X			[REDACTED]
Dye penetrant	X			[REDACTED]

COMMENTS: _____

MAGNAFLUX AND VISUAL INSPECTION

Keto's ring shows 5 Particle concentration .20
 Holes to a depth of .350 Light Intensity 2500

INSPECTOR [REDACTED]

QTY	PART	ACC	REJ	COMMENTS	QTY	PART	ACC	REJ	COMMENTS
	crankshaft					oil pump shaft			
	camshaft				6	piston pin	✓		
4	counterweight	✓			12	rocker arm	✓		
5	connecting rod	✓			11	rocker shaft	✓		
5	rod cap	✓				intake valve			
2	crankshaft gear	✓			1	tach shaft	✓		
1	camshaft gear	✓			11	case through bolt	✓		
1	alt drive gear	✓				prop gov drive shaft			
1	idler gear	✓			1	prop gov drive gear	✓		
	idler gear shaft				1	prop gov driven gear	✓		
	vacuum pump gear				12	push rods	✓		
1	fuel pump gear/shaft	✓			1	oil transfer collar	✓		
	starter drive gear					scavenge pmp drive			
	worm drive shaft					scav. pmp driven			
	worm drive gear								
2	mag gear	✓							
1	oil pump drive gear	✓							
1	oil pump idler gear	✓							

Date: 1-17-13

PROGRESSIVE INSPECTOR [REDACTED]

MANUFACTURER: Continental		ENGINE MODEL: IO-520-BA		S/N	121474-7BA	WORK ORDER #	5199
AD #	DESCRIPTION	INFO	INSP	COMPLIANCE STATUS			
#77-13-22	crankcase			N/A bY Raised Backbone Bolt Bosses			
79-05-09	oil pressure relief valve	M79-2 R1		N/A by case exchange.			✓
80-01-04	cylinder			N/A per engine S/N			
				P/C/W-housing has yellow dot			✓
				N/A to P/N cylinders installed			
#81-24-06	fuel pump	M80-26 R1		N/A-cylinders not rebarrelled by Airmotive Eng..			✓
				N/A to new pump installed			
				N/A by pump S/N			✓
#86-13-04 R3	cylinder	M86-7 R5		N/A by cylinder P/N			✓
		M87-19					✓
87-14-02	starter adapter shaftgear	M87-13		N/A by engine S/N			
				N/A-no pulley installed			✓
88-03-06	oil filter P/N 649309 and P/N 649310	M88-4		N/A by filter P/N			✓
88-17-03	starter adapter shaftgear	M88-5		N/A-no pulley installed			
				N/A by adapter P/N			
				N/A-has newer assy with 12-pt nut ref M88-5			✓
91-19-03	oil filter			N/A by P/N filter installed			✓
93-10-02	cylinder	MSB93-12		C/W by new cylinders installed			
				C/W by inspection IAW para. (b)			✓
				N/A by engine S/N			
93-16-15	fuel pump drive coupling	M93-4 R1		C/W by installation of coupling P/N 653359			✓
				P/C/W-has coupling P/N 653359			✓
96-12-22	Cessna oil filter adapter			N/A by P/N adapter			✓
#97-26-17 C	crankshaft	MHS200		C/W by installation of new VAR crankshaft			
		MSB96-10		C/W by inspection of VAR crankshaft IAW MSB96-10			✓
98-01-08 E	exhaust roller rocker arm	CSB96-8		N/A roller rocker arms not installed			✓
98-17-11 C	crankshaft (Nelson Balancing)			N/A to new VAR crankshaft installed			
				N/A by crankshaft S/N			
				C/W by inspection IAW para (b)(1)			✓
99-19-01	crankshaft	MSB99-3C		N/A by crankshaft S/N			
		CSB99-6A		C/W by installation of new shaft			✓
				P/C/W per logbook entry			✓
00-23-21	crankshaft	MSB-00-5C		N/A by crankshaft S/N			
				C/W by date code inspection			
				P/C/W by logbook entry			✓
#04-08-10	loss of engine power			N/A by cylinder manufacturer			
				N/A by cylinder S/N			✓
07-04-19 R1	Superior cylinders			N/A by cylinder manufacturer			
				N/A by cylinder S/N			✓
09-16-03	Superior cylinders	98-9A		N/A by cylinder manufacturer			
		SB03-3		N/A by cylinder S/N			✓

MANUFACTURER: Continental		ENGINE MODEL: IO-520-BA		S/N 121474-7BA	WORK ORDER # 5199
AD #	DESCRIPTION	INFO	INSP	COMPLIANCE STATUS	
09-19-07 C2	TCM cylinders	MSB09-1B		N/A by no EQ3 cylinders N/A by cylinder manufacturer	✓
10-11-04	TCM lifters	MSB09-8A		N/A by P/N lifter	✓
12-03-06 C	AFS diaphragm			N/A by rebuilt system To be C/W by installing agency	✓

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13 Dec.2012

Title	Issue No.	Effective Date	Relevance
 (30) Engine ADs - Small Aircraft and Rotor			
 Important for Cessna Oil Filter Adapter Assemblies listed in AD 96-12-22	00-00-01	1/22/2001	
 [Recurring] TO PREVENT THE POSSIBILITY OF UNDETECTED CRANKCASE CRACKS PROGRESSING INTO A CRANKCASE FAILURE	77-13-22	4/17/1978	
 TO PREVENT THE POSSIBLE LOSS OF OIL PRESSURE INDICATION	79-05-09	3/12/1979	
Associated Service Information - Available: M79-2 R1			
 TO PREVENT FAILURE OF CYLINDER HOLDDOWN FLANGES	80-01-04	1/25/1980	
 [Recurring] TO PREVENT POSSIBLE FUEL LEAKAGE AND POTENTIAL FIRE HAZARD	81-24-06	11/23/1981	
Associated Service Information - Available: M80-26 R1			
 [Recurring] TO PREVENT POSSIBLE CYLINDER HEAD TO BARREL SEPARATION, ENGINE FAILURE AND/OR ENGINE COMPARTMENT FIRE	86-13-04 R3	2/24/1988	
Associated Service Information - Available: M86-7 R5, M87-19			
 Superseded by 87-14-02	87-12-12 L	7/2/1987	
 TO PREVENT POSSIBLE STARTER ADAPTER SHAFTGEAR FAILURE, WHICH COULD RESULT IN LOSS OF LUBRICATING OIL, CONTD.	87-14-02	10/5/1987	
Associated Service Information - Available: M87-13			
 [Recurring] Superseded by 97-26-17	87-23-08	11/30/1987	
 Superseded by 88-17-03	87-26-01	4/17/1988	
 TO PREVENT POSSIBLE LOSS OF ENGINE OIL AND SUBSEQUENT ENGINE FAILURE	88-03-06	4/15/1988	
Associated Service Information - Available: M88-4			
 TO PREVENT POSSIBLE STARTER ADAPTER SHAFTGEAR ASSEMBLY FAILURE	88-17-03	8/10/1988	
Associated Service Information - Available: 876B, M87-24, M87-25, M88-5, M88-6			
 TO PREVENT OPERATION WITH COLLAPSED OIL FILTER ELEMENTS, WHICH CAN RESULT IN LOSS OF OIL PRESSURE, CONTD.	91-19-03	9/29/1991	
 TO PREVENT AN ENGINE FAILURE DUE TO A MISSING CYLINDER VALVE RETAINER KEY	93-10-02	8/12/1993	
Associated Service Information - Available: MSB93-12			

Title	Issue No.	Effective Date	Relevance
 TO PREVENT POSSIBLE FUEL PUMP DRIVE SHAFT DISENGAGEMENT AND LOSS OF ENGINE POWER Associated Service Information - Available: M93-9 R1	93-16-15	12/14/1993	
 [Recurring] TO PREVENT CRANKSHAFT FAILURE AND SUBSEQUENT ENGINE FAILURE Associated Service Information - Available: CSB96-8	97-26-17 C	1/23/1998	
 TO PREVENT EXHAUST ROLLER ROCKER ARM FAILURE, WHICH CAN RESULT IN BENT PUSH RODS, RUPTURED ROCKER ARM,CONTD.	98-01-08 E	12/23/1997	
 TO PREVENT CRANKSHAFT FAILURE DUE TO CRACKING, WHICH COULD RESULT IN AN INFLIGHT ENGINE FAILURE AND POSSIBLE,CONTD.	98-17-11 C	10/19/1998	
 Superseded by 99-19-01	99-09-17 L	4/22/1999	
 To prevent crankshaft failure due to crankshaft cheek cracks, which could result in total engine power loss,contd. Associated Service Information - Available: CSB99-6A, MSB99-3C	99-19-01	9/30/1999	
 Superseded by 2000-23-21	2000-08-51 E	4/28/2000	
 To prevent crankshaft connecting rod journal fracture, which could result in total engine power,contd. Associated Service Information - Available: MSB00-5A, MSB00-5B, MSB00-5C	2000-23-21	12/12/2000	
 To prevent loss of engine power due to cracks in the cylinder head & possible engine failure caused,contd. Associated Service Information - Available: 04-1 R1	2004-08-10	5/5/2004	
 To prevent cylinder separation that can lead to engine failure, possible engine compartment fire, and,contd. Associated Service Information - Available: B06-01E	2007-04-19 R1	5/7/2007	
 [Recurring] To prevent the separation of the cylinder head, which could result in immediate loss of engine power, possible,contd. Associated Service Information - Available: 98-9A, SB03-3	2009-16-03	9/9/2009	
 [Recurring] To prevent loss of engine power due to cracks in the cylinder head, possible engine failure, and fire in,contd. Associated Service Information - Available: MSB09-1B	2009-19-07 C2	10/7/2009	
 Superseded by 2009-24-52	2009-24-51 E	11/16/2009	
 Superseded by 2010-11-04	2009-24-52 E	11/18/2009	
 To prevent excessive hydraulic lifter wear, which can result in loss of engine power & loss of control of the airplane Associated Service Information - Available: MSB09-8A	2010-11-04	6/16/2010	

Title	Issue No.	Effective Date	Relevance
 To prevent an in-flight engine shutdown due to a failed fuel servo diaphragm, and damage to the airplane	2012-03-06 C	2/24/2012	

MANUFACTURER: Continental		ENGINE MOD: IO-520-BA	S/N 121474-7BA	WO# 5199
AD #	DESCRIPTION	COMPLIANCE STATUS		
77-13-22	crankcase	N/A by raised backbone bolt bosses		
79-05-09	oil pressure relief valve	N/A by engine S/N		
80-01-04	cylinder	N/A to P/N cylinders installed		
#81-24-06	fuel pump	N/A by pump S/N		
#86-13-04 R3	cylinder	N/A by cylinder P/N		
87-14-02	starter adapter	N/A no pulley installed		
88-03-06	oil filter P/N 649309 and P/N 649310	N/A by filter P/N		
88-17-03	starter adapter	N/A no pulley installed		
91-19-03	oil filter	N/A by lifter P/N		
93-10-02	cylinder	C/W by inspection IAW para. (b)		
93-16-15	fuel pump drive coupling	P/C/W has coupling P/N 653359		
96-12-22	Cessna oil filter adapter	N/A by P/N adapter		
#97-26-17 C	crankshaft	C/W by installation of new VAR crankshaft		
98-01-08 E	exhaust rocker arm	N/A roller rocker arms nt installed		
98-17-11 C	crankshaft	N/A by new VAR crankshaft installed		
99-19-01	crankshaft	N/A by new VAR crankshaft installed		
00-23-21	crankshaft	N/A by crankshaft S/N		
#04-08-10	loss of engine power	N/A by cylinder manufacturer		
07-04-19 R1	Superior cylinders	N/A by cylinder manufacturer		
09-16-03	Superior cylinders	N/A by cylinder manufacturer		
09-19-07	TCM cylinders	N/A by no EQ3 cylinders		
10-11-04	TCM lifters	N/A by P/N filter		
12-03-06 C	AFS servo diaphragm	N/A by rebuilt system		
Poplar Grove Airmotive, Inc.				
FAA Approved Repair Station # YYBR664L David Mason				
				Date: 1/22/2013

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS # YYBR664L

Engine Rework Record

Section: IV

Page: 15

Title: Forms

Date: 1-30-04

CUSTOMER: Classic

WO# 5199

ENGINE MAKE / MODEL: 70520 BA

S/N 121474-788A

SPECIFIC REWORK	Accompl. by	Verified by
1. Check engine inspection record. Note below all items requiring rework.		
RECONDITIONED CRANKCASE	Accompl. by	Verified by
1. Restamp S/N	N/A	
2. Install loose studs	N/A	
3. Remove burrs from machined surfaces		
4. Clean with brushes and confirm all oil passages are clear		
ALL CRANKCASES	Accompl. by	
1. Install camshaft, check free rotation and end clearance: <u>.007</u>		
2. Install bearings measure and record clearances		
3. Check main bearing boss areas with .001 feeler gauge		
4. Continental six cyl-check idler shaft end play: <u>.065</u>		
5. Check crank end and slinger clearance with crank in case.		
6. Wick and Lock all studs which are open to the inside of case.		
CRANKSHAFT	Accompl. by	Verified by
1. If applicable, measure pinch fit and install crankshaft blade bushings. Pinch <u>New crank</u>	N/A	
2. If applicable, install and leak-test sludge tubes.	N/A	
3. As required, install oil seal, hubbard plug, prop oil transfer plug, and paint flange.		
COUNTERWEIGHTS	Accompl. by	Verified by
1. Continental: Measure pinch fit and install new bushings in counterweights. Pinch <u>New crank</u>	N/A	
2. Lycoming: Unpack RW counterweights and clean.	N/A	
CAMSHAFT	Accompl. by	Verified by
1. Polish lobes as needed, clean and record P/N and S/N. P/N <u>653058</u> S/N <u>S 216716-1</u>		
ROCKER ARM ASSEMBLY	Accompl. by	Verified by
1. Install and size rocker arm bushings. Finished dimension: <u>only 1 .0020</u>		
CONNECTING RODS	Accompl. by	Verified by
1. Install and size rod bushings. Finished dimension: <u>only 1 .0022</u>		
2. Install bearings-measure and record clearances on CDI.		
STARTER ADAPTER	Accompl. by	Verified by
1. Spring. Note spring P/N: <u>Core</u>		
2. Size and polish shaft gear. Finished dimension: _____		
3. Size brass wheel. Finished dimension: _____		
4. Assemble and check free rotation		
MISC. ITEMS	Accompl. by	Verified by
1. Wick and Lock sump intake tubes. (if applicable)		
2. Prepaint		
* 3. Clean, gap, and test sparkplugs 12 # of plugs failed? <u>0</u>		
OTHER	Accompl. by	Verified by
Convert New 649895 crankshaft to 649896 By <u>Swapping 2# 104 rollers for 2# 101 rollers on #5 cheek</u>		
case 0. dress left half		
lock shaft replace pin		
oil app. 4. clw SB 94-2 (stud)		
5.		
6.		
7.		
8.		
9.		

DATE 17 JAN 13

PROGRESSIVE INSPECTOR [Signature]

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Title: Forms
Date: 9/26/08

Poplar Grove Airmotive, Inc.
Repair Station Manual
CRS YYBR664L

CYLINDER INSPECTION FORM (AS RECEIVED)

CUSTOMER Classic Aviation

W.O. # 5199

MODEL 20520BA

CYL. CLASS 71.2

TECHNICIAN [REDACTED]

Date 12/20/12

	1	2	3	4	5	6
Cylinder P/N	653445					
Barrel Type	STD STL					
Average Bore Size	5.255	5.256	5.255	5.256	5.255	5.256
Taper	.002	.0005	.001	.001	.001	.001
Out of Round	.005	.0005	.001	.0005	.001	.001
Choke						
Required Repairs						
Head Welds	NVC					
Barrel	Chrome					
	Hone					
	Grind O/S					

NOTES:

- All valves + guides are serviceable
- pistons have medium blow-by
- bores are rusty
- modify intake guides m76-24

Date: 01-21-13

Inspection: [REDACTED]

Section.: IV

Page: 19

Title: Forms

Date: 9/26/08

Customer Classic Aviation

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS YYBR664L

CYLINDER ASSEMBLY FORM (CYLS. TO BE INSTALLED)

W. O. # 5199Model T0520BA Cylinder Class 71.2 Technician [REDACTED]Date 1/16/13

BEFORE ASSEMBLY CHECKLIST

	1	2	3	4	5	6
Barrel Surface	STD	STZ				
Source of Cylinder	CUSTOMER					
Intake Guide Pinch P/N <u>N/A</u>	/					
Exhaust Guide Pinch P/N <u>N/A</u>						
Intake Seat Pinch						
Exhaust Seat Pinch						
Intake Guide Finish ID	4378					
Exhaust Guide Finish ID	4378					
Valve P/N <u>646283</u>	434					
Intake Valve Stem OD						
Valve P/N <u>646286</u>	433					
Exhaust Valve Stem OD						

SBs & Ads Complies With

Piston Weights

1	
2	
3	
4	
5	
6	

STUD ASSEMBLY

Bore Finish
 Rocker Shaft Fit
 Valve Guide ID
 Threaded Holes
 Exhaust Studs
 Intake Pipe Plugs
 Fins Straight
 Oil Drain Fitting

VALVE ASSEMBLY

Valves
 Springs
 Keys
 Seals
 Retainers/Rotocoils
 Applicability
 Valve Stem OD
 Cylinder Leak Test

PISTON ASSEMBLY

Piston P/N Applicability
 Piston Weight
 Ring Compatibility
 Scraper Ring Orientation
 Hand Fit Rocker Arms

Acc by Ver by

RING END GAPS

RING SIDE CLEARANCE

	Factory Limits			Factory Limits		
	Min	Max	Actual	Min	Max	Actual
Top	028	044	033	0015	004	003
2nd	034	050	040	0015	004	003
3rd	020	036	024	0035	0055	004
4th	015	031	020	006	008	007

Piston Part # SA631475Ring Part # SA5000SC5P05Piston Skirt Clearance 012FINAL INSPECTOR [REDACTED]

Page 2 of 2

x30039A

1/92



FAA Certified Repair Station #YYBR664L

PA-2-0491

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS # YYBR664L

Section: IV

Page: 20

Date: 09-15-05

ACCESSORY INSPECTION RECORD

Customer: Classic Aviation

Date: 1/02/12

WO # 5199

Component: Magneto

Make / Model: SGRW-1205

Part no. 10-349260-6

Serial no. 47189-2

Rcvd. By: [Signature]

Work required: 500hr

Manual used: X42001-2 Rev. 8/11

ADs and SBs requiring compliance at this time: See Compliance Sheet

Preliminary inspection		Indications / Remarks / Actual dimensions where measured	Inspector
Initial when completed	Tech	Perform 500hr Per D.A.	[Signature]
Disassembly		7.2.2 A New Design Distributor Gear ON <u>OK</u>	
Cleaning		7.2.2 B No Excessive Wear or Damage <u>OK</u>	
Hidden Damage Insp. Listed below		7.2.3 Inspect & Treat Cam <u>OK</u>	
		7.2.4 Inspect Distributor Block <u>OK</u>	
		7.2.4 F Inspect Spring Height .422 in. Max <u>OK</u>	
		7.2.3 & 7.2.4 I 3 Bake Block & Cam 190 - 210 Degrees 2-3 hours <u>OK</u>	
		7.2.5 A Inspect Capacitor: Visual <u>OK</u> .30 to .45 microfarads <u>.376 PF</u>	
		Less than 1 ohm <u>.34Ω</u>	
		7.2.6 Coil: Primary 1.0 to 1.5 ohm <u>1.39Ω</u> Secondary 20000 to 26000 ohm <u>22342Ω</u>	
		IMPULSE COUPLING FLYWEIGHT AND AXLE WEAR	
		AD 2005-12-06 "X" values <u>N/A</u>	
		7.2.8 Inspect Housing, Cover & Flange <u>OK</u>	
		7.2.9 Inspect Magnet & Gear Assembly <u>OK</u>	
Application Data			
Inspection			
Progressive Inspection			Inspector
Initial when completed	Tech	Notes:	
Assembly			
Testing record below			
Safeties, tag, ready to inspect and ship			
Final inspection			Inspector

Component test record

Impulse Coupling

	Coming in speed	Test gap	Mech. Performance (RPM)			Pawls disengage
Test Spec	150 RPM	7 mm	150	1000	3500	150 to 450 RPM
Actual	67 RPM	OK	OK	OK	OK	

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS # YYBR664L

ACCESSORY INSPECTION RECORD

Section: IV

Page: 20

Date: 09-15-05

Customer: Classic Aviation

Date: 11/02/13

WO # 5199

Component: Magneto

Make / Model: 56RD-1201

Part no. 10-349220-5

Serial no. 47189-1

Rcvd. By: [Signature]

Work required: 500HR

Manual used: X42001-2 Rev. 8/11

ADs and SBs requiring compliance at this time: See Compliance Sheet

Preliminary inspection		Indications / Remarks / Actual dimensions where measured		Inspector
Initial when completed		Perform 500hr Per D.A.		[Signature]
Disassembly	7.2.2 A	New Design Distributor Gear	OK	
Cleaning	7.2.2 B	No Excessive Wear or Damage	OK	
Hidden Damage Insp.	7.2.3	Inspect & Treat Cam	OK	
Listed below	7.2.4	Inspect Distributor Block	OK	
	7.2.4 F	Inspect Spring Height .422 in. Max	OK	
	7.2.3 & 7.2.4 I 3	Bake Block & Cam 190 - 210 Degrees 2-3 hours	OK	
	7.2.5 A	Inspect Capacitor: Visual	OK	
		.30 to .45 microfarads	.431PF	
		Less than 1 ohm	35R	
	7.2.6 Coil: Primary	1.0 to 1.5 ohm	1.07R	
	Secondary	20000 to 26000 ohm	22197R	
IMPULSE COUPLING FLYWEIGHT AND AXLE WEAR				
AD 2005-12-06 "X" values <u>NA</u>				
	7.2.8	Inspect Housing, Cover & Flange	OK	
Application Data	7.2.9	Inspect Magnet & Gear Assembly	OK	
Inspection				
Progressive Inspection				Inspector
Initial when completed		Notes:		
Assembly				
Testing record below				
Safeties, tag, ready to inspect and ship				
Final inspection				

Component test record

Impulse Coupling

	Coming in speed	Test gap	Mech. Performance (RPM)			Pawls disengage
Test Spec	150 RPM	7 mm	150	1000	3500	150 to 450 RPM
Actual	37 RPM	OK	OK	OK	OK	

MANUFACTURER: TCM MODEL: S6RN-1201 P/N: 10-349220-5 S/N: 47189-1 WORK ORDER # 5199					
AD #	DESCRIPTION	INFO	INSP	COMPLIANCE STATUS	
74-28-09	Drive-end Bushing	SB-556B		N/A	No bushing installed
				N/A	Current bushing installed
				C/W	Installed current style bushing
82-13-01	Distributor Block	SB-613		N/A	Current brown block installed
				N/A	Black block installed
82-20-01	Impulse Coupling	SB-623		N/A	No impulse coupling installed
				N/A	Current "S" type cam assembly installed
				C/W	Installed "S" type cam assembly
94-01-03 R2	Magnet and Coil	MSB-644		P/C/W	Current magnet and coil installed
94-06-09	Capacitor 10-349276 Date Code - 93-40, 93-42	CSB-641 SB-517		N/A	By capacitor p/n
				N/A	By date code
				C/W	Installed current capacitor
2005-12-06	X Values	MSB-645		N/A	By engine model
				N/A	By magneto p/n
				N/A	No impulse coupling installed
				C/W	X values as follows:

MANUFACTURER: TCM MODEL: S6RN-1205 P/N: 10-349260-6 S/N: 47189-2 WORK ORDER # 5199					
AD #	DESCRIPTION	INFO	INSP	COMPLIANCE STATUS	
74-26-09	Drive-end Bushing	SB-556B		N/A N/A C/W	No bushing installed Current bushing installed Installed current style bushing
82-13-01	Distributor Block	SB-613		N/A N/A	Current brown block installed Black block installed
82-20-01	Impulse Coupling	SB-623		N/A N/A C/W	No impulse coupling installed Current "S" type cam assembly installed Installed "S" type cam assembly
94-01-03 R2	Magnet and Coil	MSB-644		P/C/W	Current magnet and coil installed
94-06-09	Capacitor 10-349276 Date Code - 93-40, 93-42	CSB-641 SB-517		N/A N/A C/W	By capacitor p/n By date code Installed current capacitor
2005-12-06	X Values	MSB-645		N/A N/A N/A C/W	By engine model By magneto p/n No impulse coupling installed X values as follows:

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS YYBR664L

Section: IV

Page: 2

Title: Forms

Date 09/26/2008

ENGINE TEARDOWN REPORT

Customer

Classic Aviation

W.O. #

5199

Overhaul

P/S

Repair ☒

Model

LO520BA

S/N

121474-7BA

Log Book

NO

General External Condition

Basic Engine: Assembled

☒

Disassembled

of pictures taken

ACCESSORIES RECEIVED

MAKE/MODEL

PART NUMBER

SERIAL NUMBER

Left/Dual Magneto

Bendix

10-349220-5

47189-1

Right Magneto

Bendix

10-349260-6

47189-2

Carb/Fuel Inj.

Flow Divider

TCM

Throttle Body

TCM

Fuel Pump

TCM

Turbocharger

Turbo By-Pass Valve

Turbo Controller

Turbo Controller

Starter

Aero Electric

1108249

A-89345

Alternator

Delco Remy

Tach. Generator

Prop. Governor

Vacuum Pump

Spark Plugs

Tempest

URHB 32E

Harness

Aero-lite

PARTS RECEIVED

Inter-Cylinder Baffle Assy's

4

C.H.T. Probe

NO

Cyl. #

Primer Nozzels

NO

Cylinder #'s

Quick Drain

yes

Position

bottom sump

Injector Nozzels

yes

ea. 6

Baffle Nuts

NO

ea.

Nozzel Lines

6

ea.

Gen. / Alt. Brackets

NO

ea.

Manifold Pressure Fitting

yes

Cyl. intake

Oil Temp. Sender

yes

Hoses

3

(Type)

Oil Cooler

yes

Brackets

NO

(Type)

Barrel Nuts

NO

ea.

Other

Heater elliment

NO

Location

Missing Hardware, Parts, ect:

Abnormal wear or damage

Tech

Date

Poplar Grove Airmotive, Inc.

Repair Station Manual

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Title: Forms

Date; 1-30-04

ENGINE ASSEMBLY RECORD

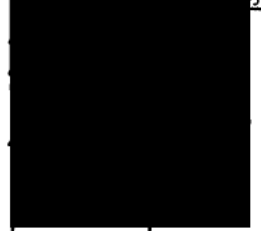
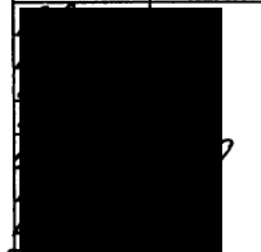
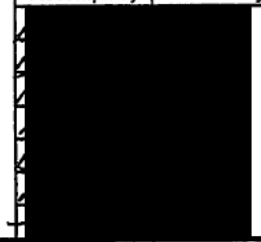
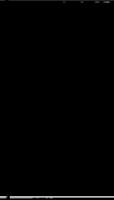
CUSTOMER: Classic Aviation

WO# 5199

ENGINE MAKE / MODEL: IO-520-BA

S/N 121474-7BA

Date 1-18-13

CRANKSHAFT ASSEMBLY 1. Counterweights installed <u>at factory</u> 2. Connecting rods torqued and safetied Torque <u>43.5</u> in (ft.lbs) or dimension, by <u>Jo</u> 3. Verify sludge tubes are installed 4. Crankshaft gear torqued and safetied 5. Face gear torqued, safetied and correctly positioned 6. Other-	Accompl. by 	Verified by 
CRANKCASE PRE-ASSEMBLE 1. Internal plugs installed 2. Valve timing marks aligned 3. Silk thread correctly routed 4. Case O-rings installed 5. Prop governor gear, tappet bodies and accessory gears installed 6. Oil transfer collar installed and torqued 7. Other-	Accompl. by 	Verified by 
POWER SECTION AND ACCESSORY CASE 1. Crankcase fasteners torqued 2. Valve timing marks 3. Crankshaft and camshaft free rotation 4. Gear backlash checked 5. Oil pump free rotation 6. Idler shafts and cam bolt torqued and safetied 7. Fuel pump drive pin installed 8. Other-	Accompl. by 	Verified by 
CYLINDER INSTALLATION 1. Cylinder inspection form completed 2. Base seals installed 3. Cylinder base plate spacing 4. Cylinder base nuts properly torqued 5. Rocker arms correctly positioned 6. Valve clearances checked 7. Other-	Accompl. by 	Verified by 
COMPLETED ASSEMBLY 1. Inter cylinder baffles installed 2. Induction system installed 3. Magnetos installed and timed 4. Ignition harness and top spark plugs installed 5. All safeties checked 6. Other-	Accompl. by 	Verified by 
Special Notes;		

Date 1-22-13

Progressive Inspector 

Poplar Grove Airmotive, Inc.

Repair Station Manual

CRS YYBR664L

ENGINE TEST RECORD

Customer CLASSIC AVIATIONEngine Operator's Manual Used X30659Revision Number 2003Engine Model: IO-520-BASN 121474-7BA Job Type RWO # 5199

ELAPSED TIME	RPM	MANIFOLD PRESS.	OIL PRES.	OIL PRES. PROP	OIL TEMP	MTRD FUEL PRESS.	UNMTRD FUEL PRESS.	FUEL FLOW	CASE PRESS.	CHT HIGH	CHT LOW	Test Discrepancies and Corrective Action	ACCOMP. BY
MIN.		" H.G.	P.S.I.	P.S.I.	°F	P.S.I.	P.S.I.	G.P.H.	M.P.H.	#	°C/°F	#	°C/°F
15	* WARM UP +	LEAK	CHECK										
15	1800	18.0	50	36	85	7.0	26.0			280			
30	2000	20.0	50	36	85	8.5	29.0			280			
15	* VARIED SEE	BELOW											
30	2350	22.5	52	38	90	12.0	36.5			265			
15	2450	23.5	52	38	95	13.0	39.0			275			
MAX SPEED	2700	-	30-60	-	115	-	-			460			
FULL	2700	27.5	58	42	85	16.5	42.5			275			
	2400	23.5	55	40	85	13.0	38.0			280			
	2200	21.5	52	38	85	11.5	34.0			280			
	2000	20.0	50	36	85	8.5	29.0			280			
	1800	18.0	50	36	85	7.0	26.0			280			
	1500	17.5	48	36	85	5.5	20.5			280			
	1200	18.5	45	34	85	5.0	16.0			275			
IDLE	900	18.5	41	30	85	4.5	12.0			265			

NOTES:

TIMING GOOD - 2

MAG DROP AT 2000 RPM: R 80 L 80 TEST PROP NO. #5FULL RPM 2700FUEL OCTANE 100LLMANIFOLD PRESSURE 27.5"ACCELERATION SMOOTHPOWER GAUGE PRESSURE N/AOUTSIDE AIR TEMP. 3°FHORSEPOWER N/AINLET AIR TEMP. 3°FOIL GRADE 80M SHELLROOM TEMP. N/ADATE 11/22/13FINAL INSPECTOR [REDACTED]

POST-TEST OPERATIONS	ACCOMP. BY
Preserve for storage	
Inspect oil screen or filter	
Remove crankshaft plug if required	
Retorque	
Safety wire as required	
Install customer accessories, baffles.	
etc., as required	
Cap or cover all openings	
Other-	

MAKE CONTINENTAL **MODEL** IO-520-BA **S/N** 121474-7BA
Total Time _____ **Hours** **Time Since Major Overhaul** _____ **Hours**

The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. (As detailed below) Pertinent details of repair are on file at this repair station under:

Work Order # 5199 **Date** 1/22/2013

Engine was disassembled, cleaned, inspected, and repaired due to loss of oil. Installed crankshaft, S/N NO2EA432 new from Continental Motors. Installed camshaft P/N 653058 repaired by Aircraft Specialties Services. Repaired cylinders as required, see attached maintenance release tag for further details. Installed magnetos, left P/N 10-349220-5, S/N 47189-1, and right, P/N 10-349260-6, S/N 47189-2 after 500 hour inspection performed by Poplar Grove Airmotive. Supplied alternator, P/N 1100715, S/N A70270 repaired by Poplar Grove Airmotive. Installed oil cooler P/N 8000960, S/N 2083375 new from Aero-Classics. This engine was test run in a test cell and meets specifications. See A.D. Compliance Record and Parts List for more details. _____

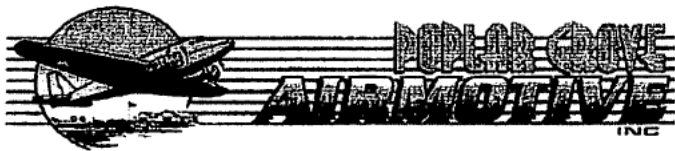
-----END-----

Poplar Grove Airmotive, Inc.

Poplar Grove Airport, Poplar Grove, IL
FAA Approved Repair Station #YYBR664L

David Mason

Signed for Poplar Grove Airmotive, Inc.



PARTS REQUISITION FORM

FAA Certified Repair Station #YYBR664L

Customer Classic Aviation						Job Type Repair			
W.O. # 5199		Employee Daniel S		Order Date Jan 9 2013		Model IO-520-BA		Serial Number 121474-7BA	
QUANTITY					Part Number/Description	@	Total Cost	Unit List	Total List
ISSUED	P.O. #	ORD.	REC.	REC. DATE					
1	39541	1	✓		SA632429-A3 Gasket Set				
1	39435	1	✓		SA641250 Crankshaft Seal				
3	36774	6	✓		658088 653888 In. Lifter				
6	39437	6	✓		658077 653877 Ex. Lifter				
1	39157	1	✓		SA646593-A1 Bearing Set				
12	39577	12	✓		SA630826 Rod Bearings				
1	39432	1	✓		SA630899 Needle Bearing				
6	39432	6	✓		SA536379 Crank Gear Screws				
4	39410	4	✓		SA649205 Bolts				
2	39433	2	✓		SA641909 Lock Plates				
2	39436	2	✓		NAS 1805-4 Collar Nut				
4	39433	4	✓		SA631088-.44 Cam Gear Bolts				
4	27074 39605	12	4/		AEC SA629340 Rod Bolts				
12	30463	12	✓		SA628109 Rod Nuts				
1	39140	1	✓		MS35756-8 Woodruff Key				
1	39171	1	✓		AA SA48109-4 Oil Filter				
1	loft	1			633403RW con. rod (1083 grams)		MP		
1	39435	1	✓		SA530658 bushing, con. rod				
1	36759	1	✓		baffle support AF 0750117-31				
1	39412	1	✓		653490 mounting stud				
1	39293	1	✓		SA520129 AF 652129-1 bushing, rocker				
Total									

PA-2-0491

Discount Total _____

Discount Total_____



PARTS REQUISITION FORM

FAA Certified Repair Station #YYBR664L

Customer Classic Aviation

Job Type Repair

W.O. # 5199

Employee
Daniel S

Order Date

Dec 28 2012 1-9-13

Model

IO-520-BA

Serial Number

121474-7BA

QUANTITY				ISSUED	P.O. #	ORD.	REC.	REC. DATE	Part Number/Description	@	Total Cost	Unit List	Total List
		1							SA632429-A3 Gasket Set				
		1							SA641250 Crankshaft Seal				
		6							653888 In. Lifter				
		6							653877 Ex. Lifter				
		1							SA646593-A2 Bearing Set				
		12							SA630826 Rod Bearings				
		1							SA630899 Needle Bearing				
		6							SA536379 Crank Gear Screws				
		4							SA649205 Bolts				
		2							SA641909 Lock Plates				
		2							NAS 1805-4 Collar Nut				
		4							SA631088-.44 Cam Gear Bolts				
		12							SA629340 Rod Bolts				
		12							SA628109 Rod Nuts				
		1							MS35756-8 Woodruff Key				
		1							CH48109-1 Oil Filter				
1	loft	1							633403RW con. rod (1083 grams)		MP		
		1							SA530658 bushing, con. rod				
		1							baffle support 0750117-31				
		1							653490 mounting stud				
		1							AEC652129-1 bushing, rocker				
										Total			

PA-2-0491

Discount Total _____



PARTS REQUISITION FORM

FAA Certified Repair Station #YYBR664L

Customer Classic Aviation

W.O. # 5199

Employee
Daniel S

Order Date

Dec-28-2012

1-9-13

Job Type Repair

Model

IO-520-BA

Serial Number

121474-7BA

QUANTITY

ISSUED

P.O. #

ORD.

REC.

REC.
DATE

Part Number/Description

@

Total
Cost

Unit
List

Total
List

1

642083A12R starter adapter

1

535634 pin, dowel

39597

1

649896 crankshaft

Total

PA-2-0491

Discount Total _____