



Model IO-360-B1B

Serial L-560-51

W.O. E3095

Date 2-27-91

# Limited Warranty

It is expressly agreed that we, warrant re-built engines and accessories (except those accessories being re-built or purchased from another vendor who has warranted said accessory and whose warranty will be passed through to the purchaser and be the only warranty on such accessory) to be free from defects in material and workmanship, under normal use and service, for 240 hours of operation or 180 days from date of sale, which ever occurs first, in accordance with the following conditions:

1. T.W. SMITH ENGINE CO., INC. reserves the right to repair or replace, or to authorize repair or replacement, any items which fail due to defect in material or workmanship, and further provided that the engine has been operated under normal use and service, according to aircraft operation manual, unless otherwise specified.
2. T.W. SMITH ENGINE CO., INC. is notified before any repairs are performed.
3. T.W. SMITH ENGINE CO., INC. shall have the option to furnish any parts or accessories required, and provided further that defective parts or accessories are promptly returned to T.W. SMITH ENGINE CO., INC. freight prepaid.
4. All repairs are performed on a standard charge basis and not on an overtime basis, and providing further that the charges are reasonable for the repairs accomplished, that the cost of all charges must be agreed upon prior to any warranty work being accomplished.
5. Provided this engine was installed by a Federal Aviation Administration certified mechanic or repair station.
6. That the owner has available and has read the aircraft flight manual for said engine and T.W. SMITH ENGINE CO., INC. reserves the right to deny any warranty claim if it reasonably determines that the engine or part thereof has been subjected to accident or used, adjusted, altered, handled, maintained or stored other than as directed in said owners manual.

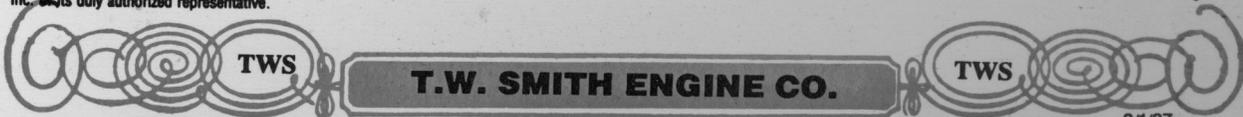
This engine is further warranted on a prorated basis except that no labor allowance will exist after the period of 240 hours of operation or 180 days from date of sale and said further prorated basis shall be subject to the provisions herein. The engine proration is based on the ratio of hours logged or at the rate of 40 hours per month, whichever is greatest, over the TBO of the engine. No other express warranty and no affirmation of the seller, its agent, employee, or representative, by words or actions shall constitute a warranty, unless specifically included within this written agreement.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED OR STATUTORY, WHETHER ORAL OR WRITTEN, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM ANY COURSE OR PERFORMANCE OR DEALING OR TRADE USAGE. THIS WARRANTY IS ALSO IN LIEU OF ANY OTHER OBLIGATION, LIABILITY, RIGHT OR CLAIM, WHETHER IN CONTRACT OR IN TORT, INCLUDING ANY RIGHT IN STRICT LIABILITY IN TORT OR ANY RIGHT ARISING FROM NEGLIGENCE ON THE PART OF T.W. SMITH ENGINE CO., INC. AND T.W. SMITH CO., INC.'S LIABILITY ON SUCH CLAIM SHALL IN NO CASE EXCEED THE PRICE ALLOCABLE TO THE ENGINE OR PART WHICH GIVES RISE TO THE CLAIM.

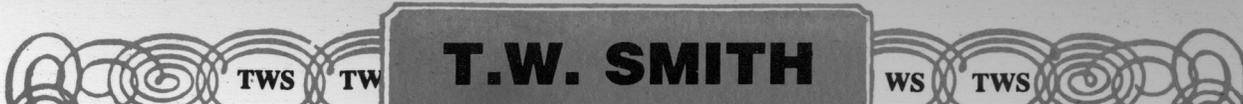
### LIMITATION OF LIABILITY

IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF WARRANTY, CONTRACT OR ALLEGED NEGLIGENCE, SHALL T.W. SMITH ENGINE CO., INC. BE LIABLE FOR SPECIAL OR CONSEQUENTIAL OR OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OR PROFITS OR REVENUES, LOSS OF USE OF THE ENGINE OR COST OF A REPLACEMENT, DAMAGES AND PERSONAL INJURIES OR ANY OTHER COST INCURRED SAVE AND EXCEPT THOSE EXPRESSLY IN WRITING AGREED TO BY T.W. SMITH ENGINE CO., INC.

This warranty setting forth T.W. Smith Engine Company's obligations shall not be varied in any way unless such variance is in writing and signed by a duly authorized officer of T.W. Smith Engine Co., Inc. or its duly authorized representative.



3/1/87



OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR REVENUES, LOSS OF USE OF THE ENGINE OR COST OF A REPLACEMENT, DAMAGES AND PERSONAL INJURIES OR ANY OTHER COST INCURRED SAVE AND EXCEPT THOSE EXPRESSLY IN WRITING AGREED TO BY T.W. SMITH ENGINE CO., INC.

This warranty setting forth T.W. Smith Engine Company's obligations shall not be varied in any way unless such variance is in writing and signed by a duly authorized officer of T.W. Smith Engine Co., Inc. or its duly authorized representative.

TWS

**T.W. SMITH ENGINE CO.**

TWS

3/1/87

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TW

**T.W. SMITH  
ENGINE CO., INC.**

WS

TWS

## Warranty Validation

Must be completed and returned within 30 days in order to validate your warranty.

ENGINE TYPE IO-360-B1B S/N L-560-51

INSTALLED IN A/C TYPE TRAVELAIR N 8831M

- 1) This engine was installed by a Federal Aviation Administration certified mechanic or repair station.
- 2) I have read, and understand, the warranty provided on my engine, and agree that all claims will be handled according to the provisions of that warranty.
- 3) T.W. Smith Engine Co., Inc. accepts no responsibility for any loss of use of aircraft or engine due to a malfunction of the engine or component part.
- 4) I have available and have read the aircraft flight manual and engine operators manual, and operate my engine and aircraft in accordance with these manuals.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

FOR OFFICE USE ONLY:

Date Received In Office \_\_\_\_\_

Validated by \_\_\_\_\_

Date \_\_\_\_\_

WO # E3095

TWS

**T.W. SMITH ENGINE CO.**

TWS

FIRST  
CLASS  
POST.

T.W. SMITH ENGINE COMPANY  
4510 Airport Road Hanger #1  
Cincinnati, Ohio 45226

Left

## T. W. SMITH ENGINE CO., INC.

HANGAR #1

LUNKEN AIRPORT

CINCINNATI, OHIO 45226

### MAINTENANCE RELEASE

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Pertinent details of the repair are on file at this agency. CERTIFIED REPAIR STATION

Work Order No. E3095 Date: MARCH 1, 1991  
NO. CB1R054K

Model: IO-360-B1B Serial No. L7560-51

Date Re-built 2-23-91

Total Accumulated Time 3101.2 HOURS

Signed: *Kevin Dan*

The above listed component has been inspected, and test run as prescribed by manufacturer's specifications. All steel parts magnafluxed and non-ferric parts zygloed. No further run-in of the installation is required. List of manufacturer's bulletin and AD Notes complied with, recorded in back of logbook.

AD NOTES AND SERVICE BULLETINS COMPLIED WITH AT TIME OF ENGINE RE-BUILD

<u>S.B. 400</u>	<u>S.B. 404</u>	<u>S.I. 1028-A</u>
<u>S.I. 1035-A</u>	<u>S.I. 1037-J</u>	<u>S.I. 1059</u>
<u>S.I. 1136-A</u>	<u>S.I. 1243</u>	<u>S.I. 1340</u>
<u>S.B. 240-K</u>	<u>S.L. 84-001</u>	<u>S.L. 84-004</u>
<u>S.L. 84-005</u>	<u>S.L. 85-004</u>	<u>S.B. 456-C</u>
<u>A.D. 81-18-04 REV 2</u>	<u>S.I. 1341</u>	<u>S.B. 475-A</u>
<u>S.I. 1123-C</u>	<u>S.I. 1228-A</u>	<u>S.I. 1218-A</u>
<u>A.D. 87-10-06 REV 1</u>	<u>S.B. 477-A</u>	<u>S.B. 234</u>
<u>S.I. 1059-C</u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>

THIS RE-BUILT ENGINE INSTALLED IN N 8831M IN LEFT ~~RIGHT~~  
POSITION WITH:

HARNESS

MAGNETOS

STARTER

GENERATOR

~~ALTERNATOR~~

FUEL PUMP

~~WAGON PUMP~~

~~STRAIGHT PUMP~~

~~TACH GENERATOR~~

~~GENERATOR~~

FUEL INJECTION

GOVERNOR

~~TURBO CHARGER~~

~~RELEASE VALVE~~

~~EXHAUST BY PACE VALVE~~

~~LARGE CONTROLLER~~

~~SOLE PUMP~~

~~SMALL CONTROLLER~~

SPARK PLUGS

MOUNT RUBBERS

~~ROCKERS~~

FUEL & OIL LINES

*V-belt, Engine Baffle Rubber.*

REPAIR WORK ORDER # 64405

TACH 3101.2

BY: *Steven Dow*

DATE 3-1-91

T.W. SMITH ENGINE CO., INC.

LUNKEN AIRPORT

CINCINNATI, OHIO 45226

F.A.A. REPAIR STATION 1045

THIS ENGINE WAS RE-BUILT ACCORDING TO MANUFACTURER'S MANUAL AND MUST BE OPERATED IN STRICT ACCORDANCE WITH ORIGINAL ENGINE MANUFACTURER'S OPERATIONS MANUAL.

ENGINE TEST RUN PER MANUFACTURER'S SPECIFICATION FOR 2.2 HRS. ON 3-1-91 J. W. SMITH ENGINE CO. INC.

*Steven Dan*

IN SOME INSTANCES P.M.A. PARTS ARE USED OTHER THAN THE ORIGINAL MANUFACTURER'S.

P.M.A. PARTS MEET F.A.A. SPECIFICATIONS.

## ENGINE EQUIPPED WITH **CERMICROME** CYLINDERS

### CAUTION

This engine is equipped with chrome cylinders, and has been completely test run and is ready for normal operation. No further ground run or slow flight is required. Additional ground run or slow flight will glaze cylinders and void warranty.

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
3-1-91	Holds 3101.2	Complied with AD 90-04-06 by installing new gas. oil line with steel pipe. Eng. Steven Dan
		<p style="text-align: right;">T. W. SMITH ENGINE CO. HANGER #1, LUNKEN AIRPORT CINCINNATI, OHIO 45226 CERTIFIED REPAIR STATION No. CB1R054K</p>
6/1/91	Hr. Mtr. 3129.9	Changed oil + filter, Phillips 20w50 Mineral oil + LW Y6702 additive.
		<p>I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition.</p>
		<p>June 1, 1991 TSMO 28.7</p>
		<p style="text-align: right;">John M. Peter A+P 1546718 IA</p>

## INSPECTION &amp; MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7/1/92	Hr. Mtr.	3241.9 Compression check - #1 $\frac{78}{80}$ , #2 $\frac{78}{80}$ , #3 $\frac{76}{80}$ , #4 $\frac{75}{80}$ Cleaned + rotated spark plugs. Changed oil + filter. (Aeroshell 15w50 oil) I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition. <i>John M. Peter</i> AOP 1546718 IA
8/1/93	Hr. Mtr.	3347.7 Compression - #1 $\frac{78}{80}$ , #2 $\frac{77}{80}$ , #3 $\frac{76}{80}$ , #4 $\frac{76}{80}$ Cleaned spark plugs. Checked mag. timing. Changed oil + filter. Aeroshell 15w50 oil I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition. <i>John M. Peter</i> AOP 1546718 IA

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/11/94	Hr. Mtr.	3409.7 Changed oil + filter Aeroshell 15w50 oil John M. Petrus AOP 1546718
9-1-94	Hr. Mtr.	3440.8 Compression #1 $\frac{78}{80}$ #2 $\frac{76}{80}$ #3 $\frac{78}{80}$ #4 $\frac{78}{80}$ Cleaned + gapped spark plugs. AD 94-01-03 TCM Bendix CW both mags. as per S/B # 637. Changed oil + filter Aeroshell 15w50 oil. I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition. Sept. 1 1994 John M. Petrus SMOH 339.6 AOP 1546718 IA

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
10/1/95	Hr. Mtr.	3499.3 SMOIA 398.1
		Compression #1 $7\frac{7}{80}$ , #2 $7\frac{7}{80}$ , #3 $7\frac{9}{80}$ , #4 $7\frac{2}{80}$
		Cleaned + rotated spark plugs. Checked mag.
		timing. Changed oil + filter, Acrosshell 15w 50.
		AD 93-02-05 Lye. Fuel Inj Lines Insp. C/W.
		I certify that this engine has been inspected in accordance with an Annual
		inspection and was found to be in an
		Airworthy condition.
		Oct. 1, 1995
		John M. Petrus AIP 1546718 IA





# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
1/28/69	Av. Mtr. 3759.4	SMOA 658.2
		Compression check all cyls. within limits.
		Checked spark plugs. Checked mag. timing
		AD 93-02-05 Fuel inj lines c/w
		Changed oil & filter. Acrosnell 15w50 oil.
		I certify that this engine has been
		inspected in accordance with an Annual
		inspection and was found to be in an
		Airworthy condition.
		John M. Peter
		AIP 1546718 IA







## INSPECTION &amp; MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11-14-03	Hr Mtr. 3940.0	SMOH 838.8
		Compression - #1 $7\frac{7}{80}$ , #2 $7\frac{7}{80}$ , #3 $7\frac{7}{80}$ , #4 $7\frac{7}{80}$
		Checked spark plugs. Changed oil (Aeroshell 15w50)
		AD <del>23-26-01</del> <sup>02-26-01</sup> F/I Lines C/W.
		I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition.
		John M. Petrus ACP 1546718 IA
1-14-05	Hr. Mtr 3965.0	SMOH 863.8
		Compression #1 $7\frac{6}{80}$ , #2 $7\frac{5}{80}$ , #3 $7\frac{2}{80}$ , #4 $7\frac{6}{80}$
		Cleaned & rotated spark plugs. Repaired air box linkage.
		Welded left exhaust pipe. AD 2002-26-01 C/W.
		Changed oil & filter (Aeroshell 15w50 oil)
		I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition.
		John M. Petrus ACP 1546718 IA

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/14/06	Hr Mtr. 4000.7	SMOH 899.5
		Compression check - all cyls within limits.
		Checked spark plugs + mag. timing.
		AD 2002-26-01 F/I lines C/w by inspection.
		Replaced aft exhaust + stack clamps. Tightened
		oil filler tube. Changed oil + filter, Avroshell 15w50
		Washed down engine, leak check OK
		I certify that this engine has been
		inspected in accordance with an Annual
		inspection and was found to be in an Airworthy
		condition. John M. Petrus A+P 1546718 IA
8/18/06	Hr. Mtr. 4046.0	Changed oil + filter,
		Avroshell 15w50 oil. Run up + leak check OK.
		Installed new Champion CH12364 Ignition
		Harness. John M. Petrus A+P 1546718

## INSPECTION &amp; MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5/26/07	Hr. Mtr. 4067.2	SMOH 966.0
15w50		Compression - #1 $17\frac{4}{80}$ , #2 $7\frac{6}{80}$ , #3 $7\frac{4}{80}$ , #4 $7\frac{5}{80}$
		Cleaned, gapped + rotated spark plugs.
		Checked mag. timing. Installed new rocker cover
		gaskets at #2 + 4 cyls. Installed new airoquip
		hoses at flow divider. AD2002-26-01 Fuel
		Injector Lines c/w by inspection, next due at
		4167.2 hrs. Changed oil + filter (Acrosshell 15w50)
		Washed down eng. Run-up + leak check OK.
worthy IA		I certify that this engine has been
		inspected in accordance with an Annual
		inspection and was found to be in an
		Airworthy condition.
		John M. Peter AOP 1546718 IA

## INSPECTION &amp; MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/4/08	Hr. Mtr. 4129.8	SMOH 1028.6
		Compression - #1 $74/80$ #2 $74/80$ #3 $76/80$ #4 $75/80$
		Cleaned, gapped + rotated spark plugs.
		Checked mag. timing. Installed new rocker cover gasket at #2 cyl. Scaled + tightened dip stick tube.
		Tightened all rocker box drain hose clamps. Repaired baffle bracket at oil cooler. Secured loose shaft bushings at alternate air box. Installed new BA-7805
		air filter. AD 2002-26-01 F/I Lines C/w by insp.
		Changed oil + filter (Aerashell 15w50 oil)
		Washed down engine, leak check + run-up OK.
		I certify that this engine has been inspected in accordance with an Annual inspection and was found to be in an Airworthy condition.
		John M. Petrus AOP 1546718 IA

SERVICEABLE PARTS TAG

AEROTECH

Date 02-21-91

Aviation Electrical Accessories

3701 Taylorsville Road, #4, Louisville, Kentucky 40220

(502) 451-6140 — 800-634-0190 — FAX (502) 454-0502

Name of Component Generator Part No. 1105052

Model No. 24V-40A S/N 1912205

Manufacturer Selco Bony

REMARKS

**MAJOR OVERHAUL**

Work Order No. 12962 Inspector [Signature]

FAA Approved Repair Station PU4R453M

TECH [Signature] DATE 2/18/91

TESTED AS PRESCRIBED  
BY MANUFACTURER'S SPECIFICATIONS  
MAJOR OVERHAUL

REMARKS:

SHIP NO. W.O. 1161-2-3

PART NAME Flow Divider

PART NO. 2524220-2 SER. NO. SS1P

Hangar 1, Lunken Airport, Cincinnati, O. 45226

T. W. SMITH ENGINE CO., INC.

CERT. REPAIR STATION NO. CBIRO54K

SERVICEABLE

TECH [Signature] DATE 2/18/91

TESTED AS PRESCRIBED  
BY MANUFACTURER'S SPECIFICATIONS  
MAJOR OVERHAUL

REMARKS:

SHIP NO. W.O. 1160-2-5

PART NAME Bendix Secvo

PART NO. 2524147-1A SER. NO. 26204/28

Hangar 1, Lunken Airport, Cincinnati, O. 45226

T. W. SMITH ENGINE CO., INC.

CERT. REPAIR STATION NO. CBIRO54K

SERVICEABLE

# MAINTENANCE RELEASE

The appliance identified above was repaired and inspected in accordance with current regulations of the federal aviation administration and approved for return to service.

Pertinent details of the repair are on file at this repair station under

Work Order No. 12962

Date: 02-21-91

Signed James Self for

Aerotech Repair Station No. PU4R453M

3701 Taylorsville Road, #4, Louisville, Kentucky 40220

The Aircraft and/or Component Identified on Reverse Side was Repaired and inspected in Accordance with Current Federal Air Regulations and Was Found Airworthy for Return to Service. Pertinent Details of the Repair are on File at This Agency Under W.O. # 1161-2-3

DATE 2/18/91  
SIGNED Mick Low

FOR  
T. W. SMITH ENGINE CO., INC.  
Hangar 1—Lunken Airport  
Cincinnati, Ohio 45226

CERT. REPAIR STATION NO. CBIRO54K  
IN SOME INSTANCES, P.M.A. PARTS  
ARE USED OTHER THAN THE ORIGINAL  
MANUFACTURER'S.  
P.M.A. PARTS MEET F.A.A.  
SPECIFICATIONS.

The Aircraft and/or Component Identified on Reverse Side was Repaired and inspected in Accordance with Current Federal Air Regulations and Was Found Airworthy for Return to Service. Pertinent Details of the Repair are on File at This Agency Under W.O. # 1160-2-5

DATE 2/18/91  
SIGNED Mick Low

FOR  
T. W. SMITH ENGINE CO., INC.  
Hangar 1—Lunken Airport  
Cincinnati, Ohio 45226

CERT. REPAIR STATION NO. CBIRO54K  
IN SOME INSTANCES, P.M.A. PARTS  
ARE USED OTHER THAN THE ORIGINAL  
MANUFACTURER'S.  
P.M.A. PARTS MEET F.A.A.  
SPECIFICATIONS.

The Aircraft and/or Component Identified on Reverse Side was Repaired and inspected in Accordance with Current Federal Air Regulations and Was Found Airworthy for Return to Service. Pertinent Details of the Repair are on File at This Agency Under W.O. # 1141-1-2

DATE 2-20-91

SIGNED Mike Stow

FOR

T. W. SMITH ENGINE CO., INC.  
Hangar 1—Lunken Airport  
Cincinnati, Ohio 45226

CERT. REPAIR STATION NO. CB1R054K

IN SOME INSTANCES P.M.A. PARTS ARE USED OTHER THAN THE ORIGINAL MANUFACTURERS.

P.M.A. PARTS MEET F.A.A. SPECIFICATIONS.

The Aircraft and/or Component Identified on Reverse Side was Repaired and inspected in Accordance with Current Federal Air Regulations and Was Found Airworthy for Return to Service. Pertinent Details of the Repair are on File at This Agency Under W.O. # 1141-1-1

DATE 2-20-91

SIGNED Mike Stow

FOR

T. W. SMITH ENGINE CO., INC.  
Hangar 1—Lunken Airport  
Cincinnati, Ohio 45226

CERT. REPAIR STATION NO. CB1R054K

IN SOME INSTANCES P.M.A. PARTS ARE USED OTHER THAN THE ORIGINAL MANUFACTURERS.

P.M.A. PARTS MEET F.A.A. SPECIFICATIONS.

The Aircraft and/or Component Identified on Reverse Side was Repaired and inspected in Accordance with Current Federal Air Regulations and Was Found Airworthy for Return to Service. Pertinent Details of the Repair are on File at This Agency Under W.O. # 1125-2-4

DATE 2/20/91

SIGNED Mike Stow

FOR

T. W. SMITH ENGINE CO., INC.  
Hangar 1—Lunken Airport  
Cincinnati, Ohio 45226

CERT. REPAIR STATION NO. CB1R054K

IN SOME INSTANCES P.M.A. PARTS ARE USED OTHER THAN THE ORIGINAL MANUFACTURERS.

P.M.A. PARTS MEET F.A.A. SPECIFICATIONS.

## T. W. SMITH ENGINE CO., INC.

Hangar 1, Lunken Airport, Cincinnati, O. 45226

PART No. 10-163005-2 SER. No. A54890PART NAME Bendix MagnetoSHIP No. \_\_\_\_\_ W.O. 1141-1-2

REMARKS: \_\_\_\_\_

SERVICEABLE

MAJOR OVERHAUL

TESTED AS PRESCRIBED  
BY MANUFACTURER'S  
SPECIFICATIONSDATE 2-20-91 TECH. J.F.K.

CERT. REPAIR STATION NO. CBIRO54K

## T. W. SMITH ENGINE CO., INC.

Hangar 1, Lunken Airport, Cincinnati, O. 45226

PART No. 10-163045-3 SER. No. 902442PART NAME Bendix MagnetoSHIP No. \_\_\_\_\_ W.O. 1141-1-1

REMARKS: \_\_\_\_\_

SERVICEABLE

MAJOR OVERHAUL

TESTED AS PRESCRIBED  
BY MANUFACTURER'S  
SPECIFICATIONSDATE 2-20-91 TECH. J.F.K.

CERT. REPAIR STATION NO. CBIRO54K

## T. W. SMITH ENGINE CO., INC.

Hangar 1, Lunken Airport, Cincinnati, O. 45226

PART No. 210360c SER. No. 634953PART NAME WOODWARD PROP 600SHIP No. \_\_\_\_\_ W.O. 1175-2-4

REMARKS: \_\_\_\_\_

SERVICEABLE

MAJOR OVERHAUL

TESTED AS PRESCRIBED  
BY MANUFACTURER'S  
SPECIFICATIONSDATE 2/20/91 TECH. Jim Plutty

**SERVICEABLE PARTS TAG**

AEROTECH

Aviation Electrical Accessories

3701 Taylorsville Road, #4, Louisville, Kentucky 40220

(502) 451-6140 — 800-634-0190 — FAX (502) 454-0502

Name of Component Starter Part No. 1109675

Model No. 24V S/N 475

Manufacturer Delco Remy

REMARKS \_\_\_\_\_

**MAJOR OVERHAUL**

Work Order No. 12963 Inspector J. Weasch

FAA Approved Repair Station PU4R453M

Date 02-21-91

N 8831M  
 WO E3095  
 MODEL IO-360-B1B  
 S/N L-560-51

**T. W. SMITH ENGINE COMPANY, INC.**  
**CERTIFIED REPAIR STATION #CB1R054K**  
**CINCINNATI, OHIO**

CUSTOMER BOB MCMEEKIN

**ENGINE TEST RECORD**

	TIME	TOTAL HOURS	R.P.M.	MAN. PRESS. IN. HG.	OIL PRESS. MAIN LBS. SQ. IN.	OIL TEMP. IN. F.	CYL. HEAD TEMP.
LEFT	20 MIN	20 MIN	1000	13	60	140	290
	15 SEC	20 MIN 15 SEC	2000	19.5	73	149	313
	15 SEC	20 MIN 30 SEC	1200	13.2	60	157	328
	5 MIN	25 MIN 30 SEC	1500	17	65	127	281
	10 SEC	25 MIN 40 SEC	2700	27.2	80	160	347
	2.0 HRS	2:25 HRS	600-2700	12-27.2	75	180	350
RIGHT							

**ENGINE TEST BEFORE/AFTER INSTALLATION**

LEFT ENGINE

Starter OK  
 Gen./Alt. OK  
 Idle. Cold 600 Hot 650  
 Boost Pump OK  
 Mag Check L. 75 R. 75  
 Prop. Gov. OK Fea. OK  
 Oil Prs. Low 45 High 75  
 (cruise)  
 Oil Temp - Cruise 180  
 T. O. -M Press. 27.2  
 T. O. - RPM 2700  
 Fuel Flow T.O. 100% Cruise 75%  
 Cyl. Temp. T.O. 380 Cruise 350  
 Throttle Controls L.E. OK R.E. \_\_\_\_\_  
 Prop Controls L.E. OK R.E. \_\_\_\_\_  
 Mixture Controls L.E. OK R.E. \_\_\_\_\_  
 Carb. Heat/Alt. Air L.E. OK R.E. \_\_\_\_\_  
 Gear Horn 15 In. M.P. \_\_\_\_\_  
 Vacuum 5.1 In. Merc. \_\_\_\_\_  
 Oil Consumption 1.0 QT IN 2:25 HOURS

RIGHT ENGINE

Starter \_\_\_\_\_  
 Gen./Alt. \_\_\_\_\_  
 Idle. Cold \_\_\_\_\_ Hot \_\_\_\_\_  
 Boost Pump \_\_\_\_\_  
 Mag Check L. \_\_\_\_\_ R. \_\_\_\_\_  
 Prop Gov. \_\_\_\_\_ Fea. \_\_\_\_\_  
 Oil Prs. Low \_\_\_\_\_ High \_\_\_\_\_  
 (cruise)  
 Oil Temp - Cruise \_\_\_\_\_  
 T.O. -M Press. \_\_\_\_\_  
 T.O. - RPM \_\_\_\_\_  
 Fuel Flow T.O. \_\_\_\_\_ Cruise \_\_\_\_\_  
 Cyl. Temp. T.O. \_\_\_\_\_ Cruise \_\_\_\_\_  
 R.E. \_\_\_\_\_ Align \_\_\_\_\_  
 R.E. \_\_\_\_\_ Align \_\_\_\_\_  
 R.E. \_\_\_\_\_ Align \_\_\_\_\_  
 R.E. \_\_\_\_\_  
 Battery Cond. GOOD

SERVICE MGR. INSP. *Steve Daw*  
 Date 3-1-91

FLT. TEST *William McSchmidt*  
 Date 3-1-91



2-15-91

COMPLIANCE RECORD  
SERVICE BULLETINS-SERVICE INSTRUCTIONS-A.D.NOTES

MAKE Zycoming MODEL F0-360-B1B  
SERIAL L-560-51 WO E-3095

<u>NUMBER</u>	<u>METHOD OF COMPLIANCE</u>	<u>INITIAL</u>
S.B.-400	INSTALLATION OF TEFLON THRUST BUTTONS.	A
S.B.-404	EXHAUST VALVE INSPECTION.	
S.I.-1025-A	MODIFICATION OF CYL. TO INCORPORATE LARGE STEM EXHAUST VALVE.	
S.I.-1035-A	CYLINDER HEAD INSPECTION.	
S.I.-1037-J	APPROVED PISTON, RING & CYLINDER	
S.I.-1059	PRE-LUBRICATION OF PARTS.	
S.I.-1136-A	EXHAUST VALVE WITH HALF INCH STEM.	
S.I.-1243	PISTON IDENTIFICATION AND INSPECTION.	
S.I.-1340	PISTON PIN IDENTIFICATION.	
S.B.-240-K	REPLACEMENT OF PARTS AT NORMAL OVERHAUL.	
SL-84-001	EXHAUST VALVE RECALL. - S.A.P.	
SL-84-004	SL-19001 NIMONIC EXHAUST VALVE SUPERSEDES SL-74541 EXHAUST VALVE. S.A.P.	
SL-84-005	PISTON PIN PLUGS TO BE USED WITH THE SL-13444 PISTON PIN. - S.A.P.	
SL-85-004	SL-17540 EXHAUST VALVE REPLACES SL-74541, SL-19001, AND 76081 EXHAUST VALVES. S.A.P.	

200803202  
 [Signature]  
 [Signature]





# MAINTENANCE RECORD

INSPECTION OR MAINTENANCE PERFORMED  
AGENCY & CERTIFICATE NO.

1028.6  
 74/80 #3 76/80 #4 75/80  
 1 spark plugs.  
 installed new rocker cover gasket  
 tightened dip stick tube.  
 rain hose clamps. Repaired  
 er. Secured loose shaft  
 box. Installed new BA-7805  
 oil F/I Lines c/w by insp.  
 (Aeroshell 15w50 oil)  
 check + run-up OK.  
 engine has been inspected  
 Annual inspection and was  
 worthy condition.  
 John M. Petrus  
 AOP 1546718 IA

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7/1/09	Hr. Mtr. 4170.1	SMOH 1068.9
		Compression - #1 76/80 #2 78/80 #3 74/80 #4 76/80
		Cleaned, gapped + rotated spark plugs. Checked
		mag. timing. AD 2008-14-07 F/I Lines c/w by
		insp. due next Annual or 4270.1 hrs. Installed
		Sky-Tec 149-NL starter eligible for installation
		under Lycoming S/I No. 1154. Changed oil + filter
		(Aeroshell 15w50 oil) Run-up + leak check OK.
		I certify that this engine has been inspected
		in accordance with an Annual inspection and was
		found to be in an Airworthy condition.
		John M. Petrus A+P 1546718 IA



# MAINTENANCE RECORD

INSPECTION OR MAINTENANCE PERFORMED  
AGENCY & CERTIFICATE NO.

SMOH 1186.0

72/80 #3 76/80 #4 74/80

spark plugs. Checked  
new rocker cover

cylinders. Replaced missing  
oil + filter,

Washed down engine.

OK Installed new

cylinder.

This engine has been  
checked with an Annual

found to be in an

*John M. Peters*  
A&P 1546718 IA

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11/14/11	Hr. Mtr. 4361.0	SMOH 1259.8
	Compression #1 72/80 #2 75/80 #3 71/80 #4 72/80	
	Installed	new Tempest UREM40E spark plugs.

Laytonville Aircraft Services, LLC  
Davis Airport  
7200 Hawkins Creamery Road  
Laytonville, MD 20872  
301-253-2897

## LEFT ENGINE

MAKE: Lycoming MODEL: IO-360-B1B SERIAL NUMBER: L-560-51  
AIRCRAFT NUMBER: N8831M DATE: 11/11/11 HOBBS: 4361.0 TOTAL TIME: 4361.0 SMOH: 1259.8

1. Engine uncowed, serviced and inspected IAW a compliant checklist. Compression : #1--77/80, #2--75/80, #3-- 71/80, #4--72/80.
2. All upper spark plugs removed, inspected, cleaned, gapped, tested and reinstalled using high temperature antisieze.
3. All new bottom Tempest spark plugs, P/N UREM 40E, installed using high temperature antisieze.
4. Oil drained and refilled with 7 quarts of Phillips X/C 20W50 oil.
5. Oil filter removed, drained, opened and inspected with no unsatisfactory contents found.
6. New CH48110-1 oil filter installed using Dow Novaguard 624 lubricant.
7. AD listing using current Triton Aviation Data software.
8. AD 2008-14-07 CW by reinspection IAW Para (h), (j) and (k) and found to be acceptable. **NEXT DUE @ 4461.0 TACH & TTAF.**
9. Noted continued CW AD 2004-10-14 by no known strike as defined in Para (i), (j) since last overhaul. **ACTION DUE ONLY IN EVENT OF DEFINED STRIKE OR @ OTHER ENGINE TEARDOWN.**
10. AD Compliance Record updated.
11. Ground run-up and taxi checks performed and found to be satisfactory.
12. Leak check performed after run-up with none observed.

I certify that this engine has been inspected in accordance with an **ANNUAL INSPECTION** and was determined to be in airworthy condition.

*John M. Peters*  
John M. Peters, 1546718 A&P, IA

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	DATE
		<b>SENENICH PROPELLER SERVICE, INC.</b> DATE: <u>3-20-12</u> Hobbs: <u>4888.6</u> Model: <u>210360C</u> TTSN: <u>ZINK</u> A/C Reg: <u>N8831M</u> Gov. S/N: <u>634953</u> Prop Gov. TSO: <u>-0-</u> CRS: QV9R194N	
		Summary of work performed <i>Removed &amp; reinstalled Overhauled                      Propeller Governor on the Left engine                      IAW. Woodward data. Opps &amp; leak checked                      good. — Encl —</i>	
		Pertinent details of this repair or overhaul are on file at this repair station under work order # <u>123488</u> Signed <u>[Signature]</u> for Sensenich Propeller Service, Inc., 519 E. Airport Rd. Lititz, PA 17543 *This signature constitutes approval for return to service of this aircraft ONLY FOR THE WORK WE HAVE PERFORMED. We have not performed nor been authorized to perform any inspection of this aircraft nor have we reviewed or been authorized to review the maintenance records, including Part 39 compliance.	