




Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward					ENGINE MODEL: IO360-ES ENGINE S/N: 360207 REG. NO: N177PT WORK ORDER: 27278-10-2007 Commander Aero, Inc. Repair Station No. GA5R-876M 10570 Springboro Pike Miamisburg, Ohio 45342 USA Phone: 888-881-5580 DATE: 10/15/2007 A/C TSN: 145.2 ENG TT: 102.2 HOBBS: 145.2 Engine Entries (1) Changed oil & Filter. Serviced with Aeroshell 15W50. Cut open filter and inspect for particles.... (2) Took oil sample.... (3) Washed down engine and ran for leak check. Maintenance Release The aircraft and/or component(s) on N177PT was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 27278-10-2007, Dated 10/15/2007. DATE: 10/15/2007 SIGNED:  Work Order: 27278-10-2007 Holland, Susan Certified Repair Station No. GA5R-876M Printed by EBis 3 (datcomedia.com)
					ENGINE MODEL: IO360ES6 ENGINE S/N: 360207 REG. NO: 176PT WORK ORDER: 10324-11-2007 Cirrus Design Factory Service Center Repair Station No. YD5R855Y 4515 Taylor Circle Duluth, MN 55811 Phone: 218- 788-3101 DATE: 11/29/2007 A/C TSN: 171.5 ENG TT: 171.5 HOBBS: 171.5 Engine Entries (3) Performed engine cylinder compression and boroscope inspections, no discrepancies noted on boroscope inspection, compressions are as follows: #1 78/80, #2 78/80, #3 78/80, #4 78/80, #5 78/80, #6 78/80, master orifice reading of 47, work performed IAW T.C.M. MM. (4) Removed cut open and performed particulate inspection on oil filter no discrepancies found, work done IAW AMM ch. 12-10. I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was inspected in accordance with current requirements of the Federal Aviation Administration and a list of discrepancy(ies) were provided to current owner/operator. Pertinent details of the inspection is on file at this Certified Repair Station No. CRS YD5R855Y. DATE: 11/29/2007 SIGNED:  Work Order: 10324-11-2007 Dave Ruuskanen Certified Repair Station No. YD5R855Y Printed by EBis 3 (datcomedia.com)
					ENGINE MODEL: IO360ES6 ENGINE S/N: 360207 REG. NO: 176PT WORK ORDER: 10345-12-2007 Cirrus Design Factory Service Center Repair Station No. YD5R855Y 4515 Taylor Circle Duluth, MN 55811 Phone: 218- 788-3101 DATE: 12/17/2007 A/C TSN: 172.4 ENG TT: 172.4 HOBBS: 172.4 Engine Entries (5) Researched engine ADs through bi-weekly issue 2007-24, all ADs are in compliance at this time.... (11) Drained engine oil and removed oil filter, cut open oil filter and performed particulate inspection, no discrepancies noted on inspection. Installed new Champion oil filter P/N CH48108-1 and serviced engine with 3Qts of Aeroshell 15W50 oil, leak and operational check good. Work performed IAW cirrus mm chapter 12-10.... (17) Removed and reinstalled heat exchanger correctly IAW SR20 AMM 78-20. I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YD5R855Y. DATE: 12/17/2007 SIGNED:  Work Order: 10345-12-2007 Steven LaMoure Certified Repair Station No. YD5R855Y Printed by EBis 3 (datcomedia.com)

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
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HERITAGE FLIGHT **CRSIGXR989E**

Engine

09/05/2008 N176PT
 212.4 Hobbs W.O. SH07143
 212.4 ACTT 212.4 PTT

- Compressions, 1) 76/80 2)77/80 3) 75/80 4)76/80 5) 76/80 6 77/80
- 1) Changed oil and Filter. Serviced with 8 quarts of Aeroshell 15W/50 and Ch 48109 filter. Checked old filter for metal (routine-none found).
 - 2) Cleaned and gapped spark plugs. Checked magneto timing.
 - 3) Cleaned fuel injectors and screens. Replaced induction air element with new P/N BA-24
 - 4) Checked and set Fuel flows I/A/W TCM SID 97-3
 - 5) Run up op's check ok.

I certify that this Engine has been inspected in accordance with an ANNUAL inspection and was determined to be in AIRWORTHY condition

James Proft for CRSIGXR989E 

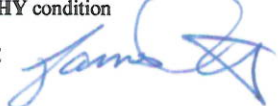
HERITAGE FLIGHT **CRSIGXR989E**

Engine

08/14/2009 N176PT
 240.9 Hobbs W.O. SH08876
 240.9 ACTT 240.9 PTT

- Compressions, 1) 74/80 2)76/80 3) 72/80 4)74/80 5) 74/80 6 70/80
- 1) Changed oil and Filter. Serviced with 8 quarts of Aeroshell 15W/50 and Ch 48109 filter. Checked old filter for metal (routine-none found).
 - 2) Cleaned and gapped spark plugs. Checked magneto timing.
 - 3) Cleaned fuel injectors and screens. Replaced induction air element with new P/N BA-24
 - 4) Checked and set Fuel flows I/A/W TCM SID 97-3
 - 5) Run up op's check ok.

I certify that this Engine has been inspected in accordance with an ANNUAL inspection and was determined to be in AIRWORTHY condition

James Proft for CRSIGXR989E 



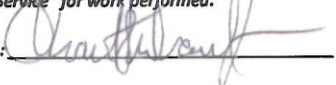
N176PT - Cirrus SR20 **S/N: 1682**
 Airframe: Hobbs 269.5 191.2 Flight Hobbs.
 Engine Hours: 191.2 Engine TT: 191.2





- Complied with the following items:
- Perform engine compression test 1) 77/80, 2) 75/80, 3) 74/80, 4) 77/80, 5) 75/80, 6) 77/80.
 - Drain engine oil. Inspected engine oil filter for metal, (routine-none found) Install new oil filter PN CH48108-1 and safety.
 - Clean, gap and rotate spark plugs, check magneto timing.
 - Cleaned Fuel injectors and fuel screen.
 - Service engine with 8 Qts of Aeroshell 15W50. Perform ground runs, check for leaks. No defects or leaks noted.
 - Install new inter-baffle retension arm and spring PN 641346 and 641347 between cylinder #2 and # 4 IAW the TCM IO 360 CMM Ch 72-60.

I certify that this Engine has been inspected IAW an "ANNUAL" Inspection and was determined to be in Airworthy condition.

"The above items were complied with per the "Manufactures Maintenance Procedures". This aircraft/engine is "Approved for Return to Service" for work performed.

Date: 9/10/2010 Sign: 

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				
9-23-2011	211	5			<p>NexAir Avionics Annual Inspection - Engine September 23, 2011 N628M HOBBS: 0296.3</p> <p>Completed an annual inspection in accordance with Cirrus OEM Checklist. Cleaned and lubricated all controls. Cleaned and gapped all spark plugs and performed differential compression test with the following results: 1: 78, 2: 80, 3: 80, 4: 75, 5: 78 and 6: 78. Updated the airworthiness directives through Bi-weekly issue 2011-14. Drained oil and replaced with AeroShell 15W/50. Removed oil filter, cut open and inspected, no discrepancies found. Checked internal timing on both magnetos. Engine run up and leak check per FAR 43.15 para. C2. Work order 814 on file.</p> <p>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be airworthy.</p> <p><i>[Signature]</i> Dave Fetherston NEXAIR AVIONICS FAA CRS: N4OR087B</p>
					<p>NEXAIR AVIONICS (Logo)</p> <p>Mansfield Airport(1B9) 265 Fruit St Mansfield, MA 02048 CRS# N4OR087B</p> <p>N628M Oct 19, 2012 Hobbs: 352.2 Tach: 256.5 WO# 1310 Engine</p> <p>Completed annual inspection IAW Cirrus SR20 & TCM IO-360 MM & MM Checklist. Drained oil, sample taken and replaced with 15W/50. Removed oil filter, cut open and inspected, no discrepancies found. Cleaned and lubricated all controls. C/W magneto engine timing. Performed differential compression test with the following results: 1: 74/80, 2: 72/80, 3: 73/80, 4: 74/80, 5: 71/80 and 6: 75/80. Updated the airworthiness directives through Bi-weekly issue 2012-21. Engine run and leak check normal.</p> <p>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be airworthy.</p> <p>Authorized Signature <i>[Signature]</i> Stephen Bonvino</p> <p>NEXAIR AVIONICS (Logo)</p> <p>Mansfield Airport(1B9) 265 Fruit St Mansfield, MA 02048 CRS# N4OR087B</p> <p>N628M Oct 24, 2013 Hobbs: 372.4 Tach: 272.0 WO# 1823 Engine</p> <p>Completed annual inspection IAW Cirrus SR20 & TCM IO-360 MM & MM Checklist. Drained oil, sample taken and replaced with 15W/50. Removed oil filter, cut open and inspected, no discrepancies found. Cleaned and lubricated all controls. C/W magneto engine timing. Performed differential compression test with the following results: 1: 75/80, 2: 76/80, 3: 76/80, 4: 78/80, 5: 75/80 and 6: 79/80. Updated the airworthiness directives through Bi-weekly issue 2013-21. Engine run and leak check normal.</p> <p>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be airworthy.</p> <p>Authorized Signature <i>[Signature]</i> Stephen Bonvino</p>

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletin
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>Mansfield Airport(1B9) 265 Fruit St Mansfield, MA 02048 CRS# N4OR087B</p> </div> <div style="text-align: right;"> <p>N628M Oct 24, 2014 Hobbs: 390.9 WO# 2344 Engine</p> </div> </div> <p>Completed annual inspection IAW Cirrus SR20 & TCM IO-360 MM & MM Checklist. Performed differential compression test with the following results: 1: 74/80, 2: 76/80, 3: 70/80, 4: 76/80, 5: 75/80 and 6: 78/80 MO: 47. Cleaned and lubricated all controls. Updated the airworthiness directives through Bi-weekly issue 2014-21. Repaired #5 Exhaust Manifold. Changed oil (15W-50) and Oil Filter (CH48108-1). Replaced exhaust gaskets (PN 50889-001) and Exhaust Nuts (PN 50890-001) for Cylinders #1, #3 and #5. Engine run and leak check normal.</p> <p>I certify that this aircraft has been inspected in accordance with annual inspection and was determined to be in airworthy condition.</p> <p>Authorized Signature <u><i>Christopher Moberg</i></u> CHRISTOPHER MOBERG</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">  <p>Mansfield Airport(1B9) 265 Fruit St Mansfield, MA 02048 CRS# N4OR087B</p> </div> <div style="text-align: right;"> <p>N628M OCT. 23 2015 Hobbs: 396.3 Tach: 289.6 WO# 2896</p> </div> </div> <p>Completed annual inspection IAW Cirrus SR20 & TCM IO-360 MM & MM Checklist. Performed differential compression test with the following results: 1: 76/80, 2: 77/80, 3: 78/80, 4: 77/80, 5: 78/80 and 6: 78/80. Cleaned and lubricated all controls. Updated the airworthiness directives through Bi-weekly issue 2015-22. Drain and added 7 quarts of 15W-50 and Oil Filter (CH48108-1). Engine run and leak check normal.</p> <p>I certify that this aircraft has been inspected in accordance with annual inspection and was determined to be in airworthy condition.</p> <p>Note: Work Order 2896 on File, Equipment List and Weight & Balance updated.</p> <p>Authorized Signature <u><i>Christopher Moberg</i></u> CHRISTOPHER MOBERG</p>

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date		Total Time		Time Since Last Overhaul	
Hrs.	Min.	Hrs.	Min.	Hrs.	Min.

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 11/1/16	Hobbs: 417.2	Tach: 307.2	N 628M	Engine Annual
Compression Test X/80	#1: 75	#2: 76	#3: 75	#4: 74
	#5: 76	#6: 78	Airframe Serial #: 1682	
Engine SMOH: 417.2				

Performed the following annual inspection utilizing the manufacturer's annual inspection guide:

1. Performed compression check on engine with the following results: #1- 75/80#2- 76/80, #3- 75/80, #4- 74/80, #5- 76/80, #6- 78/80.
2. Drained oil and removed filter to cut open and inspect for contaminants - none found. Installed new filter P/N CH48108-1. Oil sample was taken for analysis. Serviced engine with 8 Qts of Aeroshell 15W50 oil. Ran up engine and leak checked - none found at this time.
3. Removed all spark plugs. Tested, inspected, set gaps. Replaced (7) plugs with new P/N RHM38E. Installed others with new gaskets P/N M674.
4. Retorqued all induction, exhaust and rocker box cover hardware as required.
5. Removed fuel injector nozzles and soaked in cleaning solution. Cleaned and serviced fuel strainer with new oring and seal P/N MS29513-137 and P/N NAS1523-8B. Cleaned and reinstalled fuel injector nozzles and secured lines.
6. Complied with AD 2008-11-18 Leak and Exhaust System. Removed R/H and L/H muffler ball joint hardware. Pressure checked with no defects noted. Applied anti seize to ball joints and secured clamp hardware and safetied.
7. Removed and replaced (5) nose gear pucks with new P/N 11879-006. Secured all hardware. Performed inspection check for propeller clearance placing aircraft on scales per ACMM 32-20 D-3 and adding ballast as needed. Measured propeller clearance @ 8.687". Removed and replaced rebound bumpers with new P/N 14020-001. Secured and safetied.
8. Removed and replaced engine air filter with new P/N BA24.
9. Removed and replaced crankcase forward cover plate gasket with new P/N 653415.
10. Removed cylinder #2 and #6 exhaust rocker covers and removed old gasket material from surfaces. Reinstalled with new gaskets P/N SA63210 and secured all hardware.
11. Removed alternator 2 bolts. Reinstalled, torqued and safetied.
12. Removed L/H and R/H magnetos. Removed and replaced gaskets with new. Reinstalled and timed to 24 degrees BTDC. Synchronized together and secured hardware and wiring and lead caps.


----- Continue -----

13. Removed starter. Removed and replaced oring with new P/N MS9021-038. Reinstalled and secured hardware and wiring.
14. Removed and replaced crush gaskets on oil pressure relief valve and oil sump screen. Secured and safetied.
15. Removed cylinder #6 intake tubes and filed damage on tube flare. Reinstalled with new gasket P/N 629925 and secured hardware.
16. Installed new oil cap P/N 640620-15.
17. Washed and cleaned engine
18. C/W Airworthiness Directive research to 2016/19 Biweekly Issuance.

----- End -----

This aircraft was inspected and/or repaired in accordance with the manufacturer's maintenance manuals. All systems interrupted have been tested and/or leak checked as necessary. This aircraft is approved for return to service with the respect to the work performed. Pertinent details are on file at this agency under work order no. 7763 and a copy has been provided to the owner/operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Eric J. Steigelman A&P 10582467 I.A. By: 

9/26/2017 Hobbs 469⁴ P/T 353⁷

① Removed Eng Sent to Factory for IRON.

MMJoc, A&P 3354023

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

Brought Forward →

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 1/23/18	Hobbs: 469.4	Tach: 353.7	N 628M	Engine Annual
Compression Test X/80	#1:	#2:	#3:	#4:
Engine SMOH:	Airframe Serial #: 1628			#5:
				#6:

Performed the following annual inspection utilizing the manufacturer's annual inspection guide:

1. Removed engine and sent to Continental Motors, Inc for repair due to cracked case. Installed repaired engine from Continental Motors, Inc work order no ES-7947 dated November 17, 2017. See 8130-3 work order ES-7947 Continental Motors, Inc approval certificate 9CER853B. IO-360ES6B s/n 360207. Installed engine on mount and torqued shock mounts. Installed baffles on engine. Connected hoses (fuel) that were removed in order to remove engine. Reinstalled engine ground heater that was removed in order to remove engine. Installed oil quick drain, oil temp probe and oil pressure sensor. Installed #2 alternator, governor, and L and R exhaust stacks. Connected drain line manifold at sump. Connected "P" leads and ground, tach drive pick up back of engine, and connected starter wire. Installed #1 alternator and connected wires. Connected CHT probes and EGT probes and safetied. Installed oil separator and hoses. Prop was installed and the alternator drive belt was adjusted. Checked engine timing. Connected alternate air linkage, prop linkage, mixture linkage, and throttle linkage. Installed alternator air duct. Reworked ignition harness, clamped and tywrapped. Installed wire connectors at right rear baffle. Performed compression checks with the following results, #1 74/80, #2 79/80, #3 79/80, #4 79/80, #5 79/80, #6 79/80.
2. Serviced repaired engine with 8Qts of Phillips 20W50 type M oil.
3. Cleaned and gapped spark plugs and reinstalled with new gaskets P/N M674.
4. Adjusted magneto timing to 24 degrees BTDC.
5. Cleaned and serviced gascolator with new oring and seal P/N MS29513-137 and P/N NAS1523-8B.
6. Complied with AD 2008-11-18 Leak and Exhaust System. Inspected heat exchanger per SB 2X-78-07R1. Pressure checked, no cracks or leaks noted at this time.
7. Removed and replaced engine air filter with new P/N BA24.
8. C/W ball joint check on left and right exhaust.
9. Cleaned ignition leads with solvent.

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10. Covered cracked area in firewall box where fuel lines go through with 3M sealant P/N AC240B2.
11. Washed and cleaned engine
12. C/W Airworthiness Directive research to 2018/1 biweekly issuance.

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This aircraft was inspected and/or repaired in accordance with the manufacturer's maintenance manuals. All systems interrupted have been tested and/or leak checked as necessary. This aircraft is approved for return to service with respect to the work performed. Pertinent details are on file at this agency under work order no. 8218 and a copy has been provided to the owner/ operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Noel F. Fisher A&P 1905582 IA 

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 3/12/19	Hobbs: 476.6	Tach: 358.1	N 628M	Engine Annual		
Compression Test X/80	#1: 73	#2: 77	#3: 71	#4: 77	#5: 73	#6: 78
Engine SREP: 4.4	Airframe Serial #: 1628					

Performed the following annual inspection in accordance with FAR 43 Appendix D:

1. Performed compression check on engine with the following results: #1- 73/80, #2- 77/80, #3- 71/80, #4- 77/80, #5- 73/80, #6- 78/80.
2. Drained oil and took oil sample for analysis. Removed filter and cut open to inspect for contaminants - none found. Installed new filter P/N CH48108-1 and serviced engine with 8 Qts of 20W50 Type M oil. Ran up engine and leak checked - none found at this time.
3. Removed all spark plugs. Cleaned, set gaps, tested. Replaced (5) plugs with new P/N RHM38E and reinstalled others with new gaskets P/N M674.
4. Retorqued all induction, exhaust and rocker box cover hardware as required.
5. C/W AD 2008-11-18 and SB 2X-78-07-R1 by inspection and pressure check of heat exchanger with no defects noted at this time. Next inspection due at 458.1 Flight Hobbs.
6. Cleaned, and serviced fuel strainer. Reinstalled with new stato-seal and secured. Inspected fuel injector nozzles and lines as satisfactory.
7. Removed and replaced engine air filter with new P/N BA24.
8. Removed all engine hoses firewall forward and sent out for duplication at Eastern Aero Supply, Inc. See work order no. 55638 for details. Installed new hoses P/N AE3660001E0240, AE3660001E0332, AE3660061E0074, AE7010101G0354, AE7010101E0274, AE7010001E0225 and AE7010201E0142.
9. Cleaned and lubricated engine controls.
10. Checked magneto timing as satisfactory at 24 degrees BTDC.
11. Washed and cleaned engine.
12. C/W Airworthiness Directive research to 2019/5 biweekly issuance.

-----End-----

This aircraft was inspected and/or repaired in accordance with the manufacturer's maintenance manuals. All systems interrupted have been tested and/or leak checked as necessary. This aircraft is approved for return to service with respect to the work performed. Pertinent details are on file at this agency under work order no. 8603 and a copy has been provided to the owner/ operator.

I certify that this Engine has been inspected in accordance with and Annual Inspection and WAS FOUND TO BE IN AIRWORTHY CONDITION.

Raymond M. Pierce A&P 3079600 

Mark Maljanian A&P 33545223 IA 

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 5/1/2020	Hobbs: 482.5	Flt: 362.2	N 628M	Engine Annual		
Compression Test X/80	#1: 78	#2: 79	#3: 76	#4: 79	#5: 77	#6: 74
Engine SMOH: 362.2 / 8.5 SIRAN	Airframe Serial #: 1682					

Performed the following annual inspection utilizing the manufacturer's annual inspection guide:

1. Performed compression checks on engine with the following results: #1- 78/80, #2- 79/80, #3- 76/80, #4- 79/80, #5- 77/80, #6 74/80.
2. Drained engine and took sample for analysis. Removed filter and cut open to inspect for contaminants- none noted. Installed a new filter P/N CH48108-1. Serviced engine with 8 Qts of Phillips 20W50XC oil.
3. C/W AD 2008-11-18 per SB 2X-78-07R1 by inspection and pressure test of heat exchanger in accordance with manufacturer's instructions. Next inspection due Annual 2021/100hr.
4. Removed and disassembled gascolator and blew out screen with compressed air. Reassembled and reinstalled gascolator and turned fuel on to check for leaks - none noted.
5. Removed all spark plugs. Cleaned, set gaps, tested and reinstalled all plugs with new gaskets P/N M674.
6. Retorqued all induction, exhaust and rocker box cover hardware as required.
7. Adjusted alternator belt tension as required.
8. Cleaned and lubricated engine controls as needed.
9. Checked magneto timing and both mags are satisfactory at 24 degrees BTDC.
10. Removed all fuel injector nozzles and soaked in carb cleaner. Cleaned injectors with soap and water. Reinstalled all injectors as needed and connected all fuel lines.

10047

