

ADS

FAA Airworthiness Directive Compliance Record



20208 Charlanne Drive Redding, CA 96002
530-221-4470

Report Produced By: American Propeller
Service

Content Revision: 6/1/2012 File ID: 15033-04-2012 Aircraft Registration:

FAA AD Number Effective Date	Description	Complied Date Time	Amendment Number Method of Compliance/Applicability	Once or Recur	Next Due Date Time	1. Facility 3. Cert. Num. 2. Cert. Type 4. Author. By
Manufacturer Teledyne Continental		Category Engine		Model IO-550-N		Part #: 15033-04-2012 Serial #: 691364
00-00-01 1/22/2001	Important for Cessna Oil Filter Adapter Assemblies listed in AD 96-12-22	6/5/2012	NOT APPLICABLE PER ENGINE MODEL	Once		1. American Propeller Service 2. 3. NO3R717L 4.
©ATP	©ATP			©ATP	Signature:	
86-13-04 R3 2/24/1988	TO PREVENT POSSIBLE CYLINDER HEAD TO BARREL SEPARATION, ENGINE FAILURE AND/OR ENGINE COMPARTMENT FIRE	6/5/2012	NOT APPLICABLE PER MANUFACTURER	Recur		1. American Propeller Service 2. 3. NO3R717L 4.
©ATP	©ATP			©ATP	Signature:	
88-03-06 4/15/1988	TO PREVENT POSSIBLE LOSS OF ENGINE OIL AND SUBSEQUENT ENGINE FAILURE	6/5/2012	NOT APPLICABLE PER PART NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4.
©ATP	©ATP			©ATP	Signature:	
91-19-03 9/29/1991	TO PREVENT OPERATION WITH COLLAPSED OIL FILTER ELEMENTS, WHICH CAN RESULT IN LOSS OF OIL PRESSURE, CONTD.	6/5/2012	NOT APPLICABLE PER PART NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4.
©ATP	©ATP			©ATP	Signature:	
93-10-02 8/12/1993	TO PREVENT AN ENGINE FAILURE DUE TO A MISSING CYLINDER VALVE RETAINER KEY	6/5/2012	NOT APPLICABLE PER MANUFACTURER	Once		1. American Propeller Service 2. 3. NO3R717L 4.
©ATP	©ATP			©ATP	Signature:	
96-12-22 7/31/1996	TO PREVENT LOSS OF ENGINE OIL CAUSED BY LOOSE OR SEPARATED OIL FILTER ADAPTERS, WHICH COULD RESULT IN ENGINE, CONTD.	6/5/2012	NOT APPLICABLE PER ENGINE MODEL	Recur		1. American Propeller Service 2. 3. NO3R717L 4.
©ATP	©ATP			©ATP	Signature:	
©ATP						

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Content Revision: 6/1/2012 File ID: 15033-04-2012 Aircraft Registration:						
Manufacturer: Teledyne Continental Category: Engine Model: IO-550-N Part #: 15033-04-2012 Serial #: 691364						
99-09-17 L 4/22/1999 ©ATP	Superseded by 99-19-01 ©ATP	6/5/2012		Once		1. American Propeller Service 2. 3. NO3R717L 4. Signature: <i>[Signature]</i>
99-19-01 9/30/1999 ©ATP	To prevent crankshaft failure due to crankshaft cheek cracks, which could result in total engine power loss, contd. ©ATP	6/5/2012	NOT APPLICABLE PER SERIAL NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4. Signature: <i>[Signature]</i>
2000-08-51 E 4/28/2000 ©ATP	Superseded by 2000-23-21 ©ATP	6/5/2012		Once		1. American Propeller Service 2. 3. NO3R717L 4. Signature: <i>[Signature]</i>
2000-23-21 12/12/2000 ©ATP	To prevent crankshaft connecting rod journal fracture, which could result in total engine power, contd. ©ATP	6/5/2012	NOT APPLICABLE PER SERIAL NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4. Signature: <i>[Signature]</i>
2004-08-10 5/5/2004 ©ATP	To prevent loss of engine power due to cracks in the cylinder head & possible engine failure caused, contd. ©ATP	6/5/2012	NOT APPLICABLE PER SERIAL NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4. Signature: <i>[Signature]</i>
2007-16-10 8/23/2007 ©ATP	To prevent the turbine rotor from separating from the shaft of the turbocharger due to a machining defect in the, contd. ©ATP	6/5/2012	NOT APPLICABLE- NO TURBO INSTALLED AT THIS TIME	Once		1. American Propeller Service 2. 3. NO3R717L 4. Signature: <i>[Signature]</i>
©ATP Printed 6/5/2012 3:57:34PM Page 2 of 3						

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FAA AD Number Effective Date	Description	Complied Date Time	Amendment Number Method of Compliance/Applicability	Once or Recur	Next Due Date Time	1. Facility 2. Cert. Type 3. Cert. Num. 4. Author. By	
Manufacturer Teledyne Continental		Category Engine		Model IO-550-N		Part #: 15033-04-2012 Serial #: 691364	
2009-16-03 9/9/2009	To prevent the separation of the cylinder head, which could result in immediate loss of engine power, possible, contd.	6/5/2012	NOT APPLICABLE PER PART NUMBER	Recur		1. American Propeller Service 2. 3. NO3R717L 4.	
©ATP	©ATP			©ATP	Signature:		
2009-24-52 E 11/18/2009	Superseded by 2010-11-04	6/5/2012		Once		1. American Propeller Service 2. 3. NO3R717L 4.	
©ATP	©ATP			©ATP	Signature:		
2010-11-04 6/16/2010	To prevent excessive hydraulic lifter wear, which can result in loss of engine power & loss of control of the airplane	6/5/2012	NOT APPLICABLE PER PART NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4.	
©ATP	©ATP			©ATP	Signature:		
2011-25-51 12/28/2011	Superseded by 2012-10-13	6/5/2012		Once		1. American Propeller Service 2. 3. NO3R717L 4.	
©ATP	©ATP			©ATP	Signature:		
2012-03-06 C 2/24/2012	To prevent an in-flight engine shutdown due to a failed fuel servo diaphragm, and damage to the airplane	6/5/2012	NOT APPLICABLE PER MANUFACTURER	Once		1. American Propeller Service 2. 3. NO3R717L 4.	
©ATP	©ATP			©ATP	Signature:		
2012-10-13 6/8/2012	To prevent starter adapter gear shaft failure which could cause oil scavenge pump failure and engine, contd.	6/5/2012	NOT APPLICABLE PER PART NUMBER	Once		1. American Propeller Service 2. 3. NO3R717L 4.	
©ATP	©ATP			©ATP	Signature:		
©ATP		Printed 6/5/2012 3:57:34PM		Page 3 of 3			

AD NOTES COMPLIANCE RECORD

Airframe - Cirrus - SR22

S/N 1493

HOBBS: 2734.6

ACTT: 2734.6

Engine - Continental Motors - IO-550-N

S/N 691364

TT: 2325.8

TSO: 486.6

Appliance - Battery Packs - Artex

Appliance - Cylinder assembly - Engine Components Incorporated (ECi)

Appliance - ELT - Artex

Appliance - Governors - McCauley

Appliance - Ignition Switches - ACS

Appliance - Magnetos - TCM (formerly Bendix) S-20 series

500 HR TIS: 0.0

Appliance - Oil Filters - Champion

Appliance - Safety Belts - AM Safe

Appliance - Turbochargers - Kelly Aerospace

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
73-07-04	Bendix Magnetos		Superceded	X			American Aircraft Maintenance, Inc. Z5SR421Y
74-26-09	Bendix magnetos		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
75-12-07	McCauley governors		N/A by Model	X			American Aircraft Maintenance, Inc. Z5SR421Y
77-12-05 R1	Champion oil filters		N/A by date	X			American Aircraft Maintenance, Inc. Z5SR421Y
78-09-07 R3	Bendix magnetos		Superceded		X		American Aircraft Maintenance, Inc. Z5SR421Y
81-21-05	Artex battery packs		N/A by P/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
81-21-05	Artex battery packs		N/A by P/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
82-20-01	Bendix magnetos		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
87-17-06	AM Safe restraint system		N/A by P/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
88-03-06	Oil filter		N/A by P/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
91-19-03	Champion oil filter		N/A by date	X			American Aircraft Maintenance, Inc. Z5SR421Y
93-05-06	ACS ignition switches				X	2000	American Aircraft Maintenance, Inc. Z5SR421Y
93-08-17	Incorrect oil pick-up tube		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
93-10-02	Cylinder valve retainer		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
94-01-03 R2	Teledyne/Bendix magnetos		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
94-06-09	Teledyne/Bendix magnetos		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
96-12-07	Prevent magneto failure and subsequent engine failure		Superceded		X		American Aircraft Maintenance, Inc. Z5SR421Y
PL99-09-17	Crankshaft failure		Superceded	X			American Aircraft Maintenance, Inc. Z5SR421Y
99-19-01	Crankshaft failure		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
PL2000-08-51	Crankshaft connecting rod journal fracture		Superceded		X		American Aircraft Maintenance, Inc. Z5SR421Y
2000-23-21	Fracture of the crankshaft connecting rod journal		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
2001-25-03	Detect and replace understrength rivets in the elevator and rudder		N/A by S/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
2002-05-05	Limit the chance of failure of the CAPS activation system		Superceded	X			American Aircraft Maintenance, Inc. Z5SR421Y
2002-21-02	Prevent loss of the self-locking retaining nut on the roll and yaw trim cartridges		N/A by S/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
2002-24-08	Prevent failure of the CAPS activation system in an emergency situation		N/A by S/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
2004-08-10	Prevent loss of engine power		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
2005-12-06	Prevent failure of the magneto impulse coupling assembly		N/A by Model		X		American Aircraft Maintenance, Inc. Z5SR421Y
2005-17-19	Prevent the crew seats from folding forward during emergency landing		Superceded	X			American Aircraft Maintenance, Inc. Z5SR421Y
2005-26-10	To prevent loss of engine power due to cracks in the cylinder assemblies		Superceded	X			American Aircraft Maintenance, Inc. Z5SR421Y
2006-07-06	To detect, correct, and prevent damage to the fuel line and wire	12/8/05 @ 350.0	PER SB 2X-28-04	X			American Aircraft Maintenance, Inc. Z5SR421Y
2006-12-07	To prevent loss of engine power due to cracks in the cylinder assemblies		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
2006-19-10	To prevent the crew seats from folding forward during emergency landing	2/2/06 @ 452.0	PER SB 2X-25-17	X			American Aircraft Maintenance, Inc. Z5SR421Y
2006-21-03	Prevent overheating damage to the brake caliper piston O-ring seals		PREVIOUSLY COMPLIED WITH PER SB 2X-32-14	X			American Aircraft Maintenance, Inc. Z5SR421Y
2007-14-03	To correct pick-up collar support fasteners of the CAPS	9/2/07 @ 1482.7	PER SBA 2X-95-10	X			American Aircraft Maintenance, Inc. Z5SR421Y
2007-16-10	To prevent the turbine rotor from separating from the shaft of the turbocharger due to a machining defect in the turbocharger compressor		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012	X			American Aircraft Maintenance, Inc. Z5SR421Y
2007-24-13	To prevent moisture from accumulating along the wing shear web where it may freeze in certain conditions		N/A by S/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
2008-03-16	To prevent the possibility of jamming of the rudder-aileron interconnect system	2/15/07 @ 1877.4	PER SB 2X-27-14 R3	X			American Aircraft Maintenance, Inc. Z5SR421Y

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2008-08-17	To prevent hazardous amounts of carbon monoxide from entering the cabin, an increase in under-cowl temperatures hampering engine and accessory function, and loss of tailpipe retention		N/A by P/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
2008-14-13	To prevent in-flight failure of the cabin door	2/16/08 @ 1821.0	PER SB 2X-52-07 R4	X			American Aircraft Maintenance, Inc. Z5SR421Y
2008-19-05	To prevent loss of engine power due to cracks at the head-to-barrel interface in the cylinder assemblies and possible engine failure caused by separation of a cylinder head		Superceded		X		American Aircraft Maintenance, Inc. Z5SR421Y
2009-16-03	To prevent the separation of the cylinder head		Superceded		X		American Aircraft Maintenance, Inc. Z5SR421Y
2009-24-52	To address rapid wear on the face of hydraulic lifters		Superceded		X		American Aircraft Maintenance, Inc. Z5SR421Y
2009-26-01	To detect and correct anti-ice fluid distribution lines with improperly installed compression fittings		N/A by S/N	X			American Aircraft Maintenance, Inc. Z5SR421Y
2009-26-12	To prevent loss of engine power due to cracks at the head-to-barrel interface and possible engine failure caused by separation of a cylinder head		N/A by P/N		X		American Aircraft Maintenance, Inc. Z5SR421Y
2010-07-08	To prevent separation or seizure of the turbocharger turbine		N/A by P/N		X		American Aircraft Maintenance, Inc. Z5SR421Y
2010-11-04	To prevent excessive hydraulic lifter wear		ENGINE OVERHAULED AND NEW MAGNETOS INSTALLED 6/5/2012		X		American Aircraft Maintenance, Inc. Z5SR421Y
2011-25-51	To address fractures in starter adapter shaft gears		Superceded	X			American Aircraft Maintenance, Inc. Z5SR421Y
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm		N/A by date		X		American Aircraft Maintenance, Inc. Z5SR421Y
2012-10-13	To prevent starter adapter gear shaft failure		N/A by date		X		American Aircraft Maintenance, Inc. Z5SR421Y
2014-05-29	Superior Air Parts Investment Cast Cylinder Assemblies		N/A - not installed		X		American Aircraft Maintenance, Inc. Z5SR421Y

AD NOTES COMPLIANCE RECORD

Airframe - Cirrus - SR22 S/N 1493 HOBBS: 2889.6
 ACTT: 2889.6
 Engine - Continental Motors - IO-550-N S/N 691364 TT: 2480.8
 TSO: 641.6

- Appliance - Battery Packs - Artex
- Appliance - Cylinder assembly - Engine Components Incorporated (ECI)
- Appliance - ELT - Artex
- Appliance - Governors - McCauley
- Appliance - Ignition Switches - ACS
- Appliance - Magnetos - TCM (formerly Bendix) S-20 series
- Appliance - Oil Filters - Champion
- Appliance - Safety Belts - AM Safe
- Appliance - Turbochargers - Kelly Aerospace

500 HR TIS: 155.0

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
93-05-06	ACS ignition switches	12/21/16 @ 2798.8			X	4798.8	American Aircraft Maintenance, Inc. Z5SR421Y
2014-05-29	Superior Air Parts Investment Cast Cylinder Assemblies		N/A - not installed		X		American Aircraft Maintenance, Inc. Z5SR421Y
2016-16-12	ECI Class 71 or Class 76 Cylinder Assembly Failures		N/A - not installed		X		American Aircraft Maintenance, Inc. Z5SR421Y

STCs

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA10588SC

This Certificate issued to Engine Technologies, Inc.
400 Airport Road
Ada, OK 74820

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product Type Certificate Number: A00009CH
Make: Cirrus Design Corporation
Model: SR22

Description of Type Design Change: Installation of modified Teledyne Continental Motors IO-550-N engine equipped with turbonormalizing system in accordance with Engine Technologies, Inc. Master Drawing List Number ETI-G2-1, Rev. NC, dated November 1, 2006, or later FAA approved revision.

Limitations and Conditions:

1. Installation of STC SE10589SC is required.
2. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(See continuation sheet 3 of 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: August 27, 2004

Date reissued:

Date of issuance: November 08, 2006

Date amended:



By direction of the Administrator

(Signature)
S. Frances Cox
Manager, Special Certification Office
Southwest Region

(Title)

General Aviation Modifications, Inc.

2800 Airport Rd. Hangar A
Ada, OK 74820
(580) 436-4833
Fax (580) 436-6622

MANUFACTURER RELEASE CERTIFICATE

KIT NO. TIGT550-19B

Product Name: **turboGAMIjectors™**
Fuel Injection Nozzles

STC No. :
FAA-PMA

P/N:639368GT- E Qty. 1 Installation Location Cylinder: 1 Replaces TCM P/N639368-19B
P/N:639368GT- D Qty. 1 Installation Location Cylinder: 2 Replaces TCM P/N639368-19B
P/N:639368GT- D Qty. 1 Installation Location Cylinder: 3 Replaces TCM P/N639368-19B
P/N:639368GT- E Qty. 1 Installation Location Cylinder: 4 Replaces TCM P/N639368-19B
P/N:639368GT- E Qty. 1 Installation Location Cylinder: 5 Replaces TCM P/N639368-19B
P/N:639368GT- E Qty. 1 Installation Location Cylinder: 6 Replaces TCM P/N639368-19B

Applicable to:

Engine Manufacturer : Teledyne Continental Motors

Engine Model(s): I0-550-N

turboGAMIjectors™ Kit No. TIGT550-19B S/N 18307

THE AERONAUTICAL PRODUCT DESCRIBED HEREON CONFORMS TO APPROVED
TYPE DESIGN AND IS IN A CONDITION FOR SAFE OPERATION



Karen Waddle
GAMI AUTHORIZED INSPECTOR

Date: 8-27-2005