MILLION AIR SERVICES

NAME AIR CCS UC			A/C REG. NO./ Airport I.D.	T C
BILLING ADDRESS			MAKE?	
<i>;</i>			MODEL 42	P
HIPPING ADDRESS			SER. NO. 2379	- F
			STATUS REPAIR NEW	71
FREQ #1 FREQ. #2 FREQ #3 FRE	EQ #4 FREQ #5	FREQ #6	07/08/15	
CUSTOMER CONTACT	PHONE #	1	EST. DELIVERY DATE	
	MATE FAX#		CUSTOMER P.O.#	
	INSTRUCTIONS No.	TEARDOWN SHE	ETS ATTACHED	
Prof Go Cen	or Resmo	ral		
			`	
	REIN TO BE DONE IN ACC	ORDANCE WITH	THE TERMS AND CONDITION	$\dashv \vdash$
	REIN TO BE DONE IN ACC	ORDANCE WITH	THE TERMS AND CONDITION	NS S
I HEREBY AUTHORIZE THE WORK DESCRIBED HER ON THE REVERSE SIDE OF THIS WORK ORDER. SIGNATURE OF CUSTOMER OR AUTHORIZED AGENT	REIN TO BE DONE IN ACC	Y	THE TERMS AND CONDITION	NS -

CREDIT

SO- 02614

CARD	CHARGE	CASH	
TYPE	NO		
CREDIT A	PPROVAL	DATE	
	QQALITY ASSU	RANCE	
PRELIMIN	AF		
HIDDEN I	DAMAGE : WHEN REQUIR	ED)	
FINAL			
	PARTS & MAT		
QUAN.	DESCRIPTION	AMOU	NT
			1
	<u> </u>		
	TOTALS		
LABOR			<u> </u>
PARTS			+
MISC. PAI	RTS & MATL'S		
SUBTOTA			
FREIGHT SALES TA			
SALES TA			



1:58 PM

Printed: 7/07/2015

Million Air Houston

8703 Telephone Rd Houston, TX 77061

Shop Order:

SO-02614

Opened: 7/07/2015

Closed:

Sold To: AIRCCS LLC

Houston, TX 77041-7112 United States

 Aircraft Number:
 N422PB
 Type:SR22
 S/N: 2379

 Eng# Type
 S/N
 Time Cycles Prop Type
 Prop S/N
 Prop Time

Shop Order: SO-02614 Entered By: DDERRYBEF Page: 1 of 3



Printed: 7/07/2015

5:11 PM

Million Air Houston

8703 Telephone Rd Houston, TX 77061

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Discrepan			- 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 1985 - 198	E	xternal Referenc	e: N422PB			
<u>DISCRE</u> Custome			al of prop gove	nor to be renai	ired by outside ven	dor			
		SERVICE	,	nor to be repa	ired by outside veri	uoi.			
Date //7/0	2/_ A	VC Time U	i u KA/C Ldgs	Unk S.O.	The mainte	enance operati	ons described ab	ove were comple	ted and,
with resp	ect to	the work p	erformed, the a	ircraft and/or c	omponent is appro	ved for return t	o service for disc	repant items/	·
RESOLU	JTIO	N:							
Removed	prop	governor F	N: C290 SN: 0	61575 and del	ivered to customer	as requested.			
Received	prop	governor fr	om PN: C290 S	SN: 061575 R	&D Propeller who s	aid there was i	no problem with t	ne governor. Reir	stalled
govenor. performed	Perfo d with	reference t	ne runs with no to Cirrus SR-22	AMM Revision	l and engine reach n 28-20 dated 05/2	ed power at 26 8/15 Chap: 61-	50 RPM. No oth 20. 07/06/15 DD	er defects noted. D.	VVork
		Date Comp	Jeted:	SIGNED OF	F BY:		INSPECTED BY:		
		07/	06/15] [
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Shop Order: SO-02614 Entered By: DDERRYBEF Page: 2 of 3



Printed: 7/07/2015

1:58 PM

Million Air Houston

8703 Telephone Rd Houston, TX 77061

Totals:		
• :	SubTotal:	\$
	Charges:	\$

Shop Order: SO-02614 Entered By: DDERRYBEF Page: 3 of 3

N422PB CIRRUS SR22 SN: 2379 TT: UNK CYC: UNK SO: 2614 07/06/15

1. REMOVED PROP GOVENOR PN: C290 SN: 061575 AND DELIVERED TO CUSTOMER PER CUSTOMR'S REQUEST.

 REINSTALLED CUSTOMER SUPPLIED REPAIRED PROP GOVERNOR FROM R&D PROPELLER SERVICE WORK ORDER # 15699, PN: C290 SN: 061575, PERFORMED ENGINE RUNS AND LEAK CHECKS WITH NO DEFECTS NOTED AND ENGINE REACHING RPM OF 2650. WORK PERFORMED WITH REFERENCE TO CIRRUS SR22 AMM REVISION 28-20 DATED 05/28/15 CHAP 61-20.

WITH REGARDS TO THE WORK PERFORMED THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE. DETAILS ON FILE UNDER SO 02614.

DAN DERRYBERRY

1. Approving Civil Aviation 2.	ATTOTIONIZED DETE		3. Form Tracking Number:
Authority / Country: FAA/UNITED STATES	AUTHORIZED RELEA		15699
	FAA Form 8130-3, AIRWORTH	INESS APPROVAL I AG	5. Work Order/Contract/Invoice No.
	&D PROPELLER SERVICE, LLC		
	528 Hatfield Road - Pearland, Texas 77581		15699
6. Item: 7. Description:	8. Part Number: 9. Quantit	y: 10. Serial Number:	11. Status / Work:
1 Governor	C290D3R/T23 1	061575	REPAIRED
12. Remarks:			
	we were manufactured in conformity to:	14a. 14 CFR 43.9 Return to Service	Other regulation specified in Block 12
	and are in a condition for safe operation. data specified in Block 12.	and described in Block 12 was accompli	in block 12, the work identified in Block 11 ished in accordance with Title 14, Code of ect to that work; the items are approved for
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	
13d. Name (Typed or Printed):	13e. Date (dd/samm/yyyy):	14d. Name (Typed or Printed):	14e. Date (dd/mmm/yyyy):
	00/00/00	Carl D. Swartz	02/JUL/2015
CONTROL OF THE PARTY OF THE PAR	User/Installer Res	sponsibilities	
It is important to understand that the exis	stence of this document alone does not automatically const	itute authority to install the aircraft engine/prope	eller/article.
it is essential that the user/installer ensur-	n accordance with the national regulations of an airworthin es that his/her airworthiness authority accepts aircraft engit constitute installation certification. In all cases, aircraft in before the aircraft may be flown.	ne(s)/propeller(s)/article(s) from the airworthine	ss authority of the country specified in Block 1.

	Civil Aviation ty / Country:	AUTHO	RIZED RE	LEAS	SE CERTIFICAT	3. For	m Tracking Number:
	ED STATES				ESS APPROVAL TAG		15699
4. Organization	Name and Address:	R&D PROPELLE				5. Wo	rk Order/Contract/Invoice No.
	was a landa sanda sanda sa				A COLUMN TO THE RESIDENCE OF THE PARTY OF TH		15099
5. Item: 7.	Description:	8. Part N	Jumber: 9.	Quantity:	10. Serial Number.	11.	Status / Work:
1	Governor	C29	90D3R/T23	1	061575	:	REPAIRED
2. Remarks:			Administrative of the distribution organizations indicated the last distribution of the last dis			- Andrews Company . 17. Joseph Ages germanyscus 1 yells of the Add Add Add Add Add Add Add Add Add Ad	
Repaired IAV	V McCauley Man	aul 780401, SPM10	0				
Flush and Be							
Repair Leak I Max RPM 2	between Body and 700	Base					
Min RPM 13					• ·		
Relief Valve							
Pump Capac	ity 5						
13a Certifie	es the items identified	above were manufactured	in conformity to:	1.	4a. 14 CFR 43.9 Return to Service	e Other re	egulation specified in Block 12
						F,1	
		lata and are in a condition			Certifies that unless otherwise spec and described in Block 12 was acco		
	Non-approved des	ign data specified in Blox	ck-12.		Federal Regulations, part 43 and in return to service.	respect to that wor	k, the items are approved for
13b. Authorize	ed Signature:		13c. Approval/Authoriza	ation No.: I	4b. Authorized Signature:		I4c. Approval/Certificate No.:
							CRS
13d. Name (1	Cyped or Printed):		13c. Date (dd/namm/yy	yy): I	4d. Name (Typed or Printed):	/	14e. Date (dd/mmm/yyyy):
			00/00/00		Carl D. Swartz		02/JUL/2015
			User/Inst	aller Resp	onsibilities		
It is important	to understand that the	existence of this docume	nt alone does not automatic	ally constitu	te authority to install the aircraft engine/	propeller/article.	Management & Blanch & Committee of the C
Where the user	r/installer performs wo	rk in accordance with the	e national regulations of an	airworthines	s authority different than the airworthine	ss authority of the	country specified in Block 1,
it is essential ti	hat the user/installer e	nsures that his/her airwor	thiness authority accepts ai	rcraft engine	(s)/propeller(s)/article(s) from the airwor	thiness authority of	the country specified in Block 1.
		o not constitute installation iller before the aircraft m		i, aircraft mai	intenance records must contain an install	lation certification i	ssued in accordance with the

NSN: 0052-00-012-9005

PROPELLER CONTROL

1. GENERAL

The propeller governor is an engine RPM sensing device and high pressure oil pump. Pressurized engine oil is directed to the propeller hydraulic cylinder or released from the hydraulic cylinder in response to engine RPM change. Change in oil volume in the hydraulic cylinder changes the blade angle and returns the propeller system RPM to the value set by the cockpit throttle/propeller control. The governor is mounted on the lower left forward portion of the engine crankcase.

2. MAINTENANCE PRACTICES

A. Propeller Governor (See Figure 61-201)

- Removal Propeller Governor
 - (a) Remove engine cowling. (Refer to 71-10)
 - (b) Remove cotter pin, nut, washers, and bolt securing control cable rod end to governor control arm.
 - (c) Place a drain pan beneath governor to catch oil spillage.
 - (d) Remove nuts and washers securing governor to studs on governor mounting pad.
 - (e) Remove and discard gasket.
- (2) Installation Propeller Governor
 - (a) Acquire necessary tools, equipment, and supplies.

Engine oil.		Any Source	Lubrication.
Description	P/N or Spec.	Supplier	Purpose

- (b) Lubricate governor shaft spines with engine oil.
- (c) Install new gasket over studs on governor mounting pad.
- (d) Position governor over studs on governor mounting pad and secure with washers and nuts. Torque nuts to 155 175 in-lb (17.5 19.7 Nm).
- (e) Install bolt, washers, nut, and cotter pin securing control cable rod end to governor control arm.
- (f) Install engine cowling. (Refer to 71-10)
- (3) Adjustment/Test Governor Rigging and Low-Pitch Stop Adjustment
 - (a) Remove engine cowling. (Refer to 71-10)
 - (b) Perform Adjustment/Test Throttle Control Cable. (Refer to 76-10)
 - (c) Perform Adjustment/Test Mixture Control Cable. (Refer to 76-10)
 - (d) Adjust governor control cable jam nuts so power control lever in the full forward position causes governor control arm to make contact with governor low pitch control arm stop.
 - (e) Ensure power control lever has positive clearance to console slot in both full forward and full aft positions.

CAUTION: Engine starting and shut-down may only be performed by authorized personnel.

(f) Start and warm up engine. (Refer to Pilot's Operating Handbook, Section 4)

Note:

Due to lower loads on the engine during flight, engine RPM should be set to approximately 2650 during ground static adjustments to ensure engine output of 2700 RPM during flight conditions.

- (g) With power lever full forward, verify tachometer reads 2650 RPM.
- (h) If engine tachometer does not read 2650 RPM, shut down engine, and adjust the low pitch/high RPM screw on the governor.
 - 1 Remove safety wire from adjustment screw.

Note:

One revolution of the adjustment screw will increase or decrease engine speed approximately 25 - 30 RPM.

- 2 Loosen adjustment screw locknut and turn screw in clockwise direction to decrease engine speed or in counterclockwise direction to increase engine speed.
- 3 Tighten adjustment screw locknut.

CAUTION: Engine starting and shut-down may only be performed by authorized personnel.

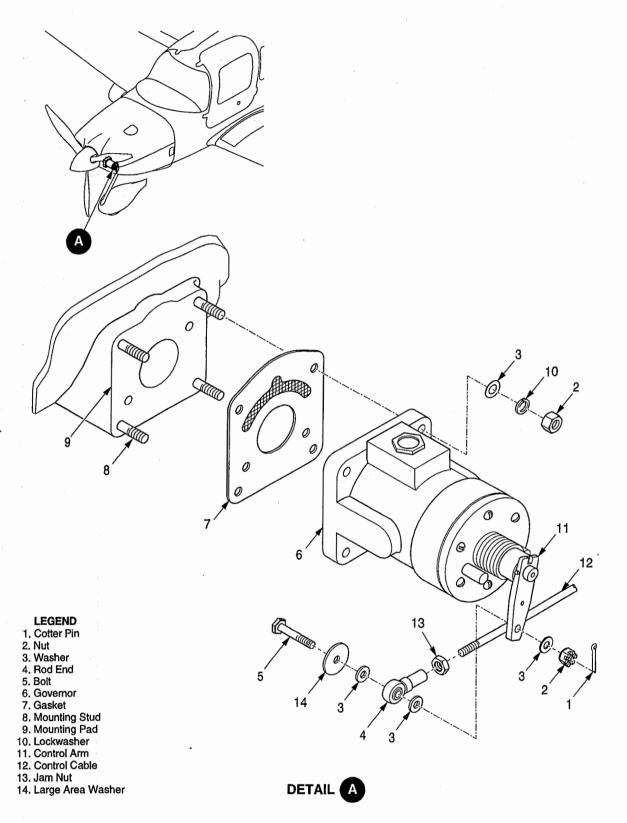
- 4 Start and warm up engine. (Refer to Pilot's Operating Handbook, Section 4)
- 5 With power lever full forward, verify tachometer reads 2650 RPM.
- 6 If engine tachometer does not read 2650 RPM, shut down engine, and repeat adjustment.
- When correctly adjusted, shut down engine, and safety wire adjustment screw locknut.
- (i) Tighten governor control cable jam nuts. Verify minimum rod-end thread engagement of 0.312 inch (0.79 cm).
- (j) Install engine cowling. (Refer to 71-10)
- (4) Functional Test Engine Cruise RPM

WARNING: Test flight may only be performed by authorized personnel.

- (a) Conduct test flight.
 - With power lever full forward, verify tachometer reads 2700 RPM.
 - With power lever at cruise setting, verify tachometer reads 2500 2525 RPM.
- (b) If unable to obtain 2700 RPM at full power, perform Adjustment/Test Governor Rigging and Low-Pitch Stop Adjustment. (Refer to 61-20)
- (c) If unable to obtain 2500 2525 RPM at cruise setting, perform the following steps:
 - 1 Remove engine cowling. (Refer to 71-10)

Note: One thread on governor control cable push rod measures 0.0313 inch (0.7950 mm) and equals approximately 20 RPM.

- At control quadrant, adjust governor control cable rod end so governor control arm moves off of low pitch stop the distance required to obtain increase in cruise RPM. For example, to gain 20 RPM, shorten rod end one revolution until a 0.0313 inch (0.7950 mm) gap exists between governor control arm and low pitch stop.
- At governor, adjust governor control cable rod end until governor control arm contacts low pitch stop. Verify minimum rod end thread engagement of 0.312 in (0.79 cm).
- At throttle body, adjust throttle control cable rod end until throttle body control arm contacts full forward stop. Verify minimum rod end thread engagement of 0.312 in (0.79 cm).
- 5 In full forward and full aft positions, ensure power lever has positive clearance with slot in engine control panel.
- 6 Install engine cowling. (Refer to 71-10)
- 7 Conduct test flight.



SR20_MM61_1812

Figure 61-201 Governor Installation

EFFECTIVITY:

61-20 Page 4 15 Jun 2010



Million Air Houston

8703 Telephone Road Houston, TX 77061 (713) 643-6300 FAX (713) 643-8767

INVOICE:

SO-02614

Opened: 7/07/2015

Closed:

7/31/2015

Sold To: AIRCCS LLC

Houston, TX 77041-7112 United States

Ship To: AIRCCS LLC

Type:SR22 S/N: 2379 Aircraft Number: N422PB Prop Type Cycles Prop S/N **Prop Time** S/N Time Eng# Type

Discrepancy: 1

DISCREPANCY::

Customer requests removal of prop govenor to be repaired by outside vendor.

RESOLUTION::

Removed prop governor PN: C290 SN: 061575 and delivered to customer as requested.

Received prop governor from PN: C290 SN: 061575 R&D Propeller who said there was no problem with the governor. Reinstalled govenor. Performed engine runs with no leaks detected and engine reached power at 2650 RPM. No other defects noted. Work performed with reference to Cirrus SR-22 AMM Revision 28-20 dated 05/28/15 Chap: 61-20. 07/06/15 DDD.

Charges This Item:	5.00 Hours @	110.00 \$	550.00
	Total For This	Discrepancy: \$	550.00
Miscellaneous Charges:			
<u> </u>	Hazmat/Co	nsumables/P: \$	15.40
Summary:			
Hazmat/Consumables/P: \$	15.40 Total Labor - 5.00 Hours:	\$	550.00
Totals:			
	SubTotal:	\$	565.40
	Total Charges:	\$	565.40
	Amount Remaining:	\$	565.40

INVOICE: SO-02614

Terms: Prior to departure

11:54 AM

Printed:

8/03/2015

Page: 1 of 1