# National Transportation Safety Board

Office of Aviation Safety Washington, DC 20594



# CEN22FA317

# AIRWORTHINESS

Group Chair's Factual Report - Attachment #4

Woodward Test Results for the FCU and PT Governor

December 8, 2023

AEROWORKS			Page 1 of 8
	P/N: 1-170-780-01 Model #: TA-7 S/N: 672		#: <u>AI1003</u>
Jest	ed for standard day flows only	AJE	
	Таѕк	I ECHNICIAN	INSPECTOR
BIANK & PE anah		INITIALS & DATE	STAMP & DATE
ate:Part	List: 100770A5 Operator:	NOV 1 7 20	27
est Performed I.A.W.:	73-20-03 Stand: LECT 319		
. GENERAL (PDF PAGE	461)	and the state of the	State of the second
service evaluation for overhaul or re- service testing ex- Service limits are correlation proble	his section can be used for a second source testing and of field returned units. Service limits are not to be used conditioning. All overhaul requirements apply during cept for the service limits included in this section. used stated above to eliminate minor test equipment ms. Units meeting service testing requirements are onally serviceable with accrued service time. They may		
following areas be reinstallation on e • Considera • Physical c • Evidence • Fuel conte • Service da	tion of remaining serviceable time ondition and seal integrity of internal contamination rol log entries		
STANDARD SETTINGS	AND CONDITIONS (PDF PAGE 461)	The states of the second	W. Mary
	ditions must be set and maintained during final test s otherwise specified:		
procedures, untes	A CARL AND A		and the second
- Service Service - Hereit	Limits per test requirements + 4 PDM	And Destablished Avenue Comment	Contraction of the second second
N <sub>1</sub>		Walter and and	ALL ALT
N <sub>1</sub>	4 ± 2 PSiG	and the set	
N <sub>1</sub>	$4 \pm 2$ PStG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 ± 137.9 kPa) at 300 ± 10 psig at	Constanting of the second	
N <sub>1</sub> P <sub>8</sub> P <sub>1</sub> P <sub>N</sub>	4 ± 2 PSIG 29.92 ± 0.05 inches of mercury (Hg) absolute 200 ± 20 psig (1379 ± 137.9 kPa) at 300 ± 10 psig at 900 pph		
N <sub>1</sub> P <sub>8</sub> P <sub>1</sub> P <sub>N</sub> Quad	$4 \pm 2$ PSIG29.92 $\pm$ 0.05 inches of mercury (Hg) absolute200 $\pm$ 20 psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at900 pph100 $\pm$ 0.5 degrees, using test quadrant STD62480		
<u>N1</u> P8 P1 PN Ωuad T1	$4 \pm 2$ PStG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at $900$ pph $100 \pm 0.5$ degrees, using test quadrant STD62480 $59 \pm 3^{\circ}F$		
N <sub>1</sub> P <sub>8</sub> P <sub>1</sub> P <sub>N</sub> Quad T <sub>1</sub> W <sub>f</sub>	$4 \pm 2$ PSIG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at $900$ pph $100 \pm 0.5$ degrees, using test quadrant STD62480 $59 \pm 3^{\circ}$ FLimits per test requirement		
N <sub>1</sub> P <sub>8</sub> P <sub>1</sub> P <sub>N</sub> Quad T <sub>1</sub>	$4 \pm 2$ PSIG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at $900$ pph $100 \pm 0.5$ degrees, using test quadrant STD62480 $59 \pm 3^{\circ}F$ Limits per test requirementFor units with IGV indicator plates, at 60 degree orgreater mark. For units without the IGV indicator		
N1           P8           P1           PN           Quad           T1           Wf           IGV Lever	$4 \pm 2$ PSIG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at $900$ pph $100 \pm 0.5$ degrees, using test quadrant STD62480 $59 \pm 3^{\circ}F$ Limits per test requirementFor units with IGV indicator plates, at 60 degree orgreater mark. For units without the IGV indicatorplate, between CCW position and horizontal position		
N <sub>1</sub> P <sub>8</sub> P <sub>1</sub> P <sub>N</sub> Quad T <sub>1</sub> W <sub>f</sub> IGV Lever	$4 \pm 2$ PSiG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at $900$ pph $100 \pm 0.5$ degrees, using test quadrant STD62480 $59 \pm 3^{\circ}$ FLimits per test requirementFor units with IGV indicator plates, at 60 degree orgreater mark. For units without the IGV indicatorplate, between CCW position and horizontal positionIn automatic system operation position		
N1           P8           P1           PN           Quad           T1           Wf           IGV Lever	$4 \pm 2$ PSIG $29.92 \pm 0.05$ inches of mercury (Hg) absolute $200 \pm 20$ psig (1379 $\pm$ 137.9 kPa) at 300 $\pm$ 10 psig at $900$ pph $100 \pm 0.5$ degrees, using test quadrant STD62480 $59 \pm 3^{\circ}F$ Limits per test requirementFor units with IGV indicator plates, at 60 degree orgreater mark. For units without the IGV indicatorplate, between CCW position and horizontal position		

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NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058

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AEROWORKS

AN EAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: Al1003

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			Таѕк	TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
C.	SER	RVICE LI	WITS TESTING (PDF PAGE 462)	and a series	
	1.	the san Form, ( test pro	t service limits test procedures under the same conditions, and in ne manner as final test procedures found in the Final Test Data DAW-F-200-058. The following tests differ from those in the final ocedures as indicated, except for air-bleed limits. They are the s in the Final Test Data Form, OAW-F-200-058.	NOV 1 7 202	,
Contraction of the second	2.	Prelimi 462) a.	inary Leak Test (with governor mounted on regulator) (PDF page Reduce outlet pressure ( $P_N$ ) to zero by shutting down $N_1$ drive and $N_2$ drive. Set inlet temperature at 55°F to 85°F.	NOV 1 7 2022	NOV 04W 202 INSP 114
		b.	Increase inlet pressure ( $P_B$ ) 45 to 50 PSIG. Measure leakage at $N_1$ and $N_2$ seal drains during several one-minute periods.	DV 107 2022	OAW 2022 INSP 114
		c.	Set $N_1$ speed at 4300 RPM and $N_2$ speed at 4600 RPM, with inlet $M_1$ pressure ( $P_B$ ) at 45 to 50 psig. Close the throttling valve to obtain 600 to 620 PSIG. Measure discharge pressure leakage at $N_1$ and $N_2$ seal drains during several one-minute periods.	1 7 2022	OAW INSP 114
		d.	At no time must the combined leakage from $N_1$ and $N_2$ seal drains exceed one cc per minute. No other external leakage is permitted.	<u> </u>	
	2.	Emerge a.	Apply 14 volts DC and switch solenoid to emergency position. Switchover (fuel flow) should occur in one second maximum. Shut off current to ensure solenoid is mechanically held in emergency position.	MOV 1. 7 20.	12
		b.	Run emergency flow schedule (Table 2) using standard conditions, except as specified.	19 <u>7 1 7 20</u> 21	
-			NOTE: Use emergency maximum flow valve wrench (STD64917) when adjusting maximum flow valve (201, Figure 107).		
10	1	c.	Run lines one through three, setting quadrant and $N_{\rm 1}$ speed in the increasing direction. Then record corresponding $W_{\rm f}$ values.	17V J.7 2022	
		d.	Make a hysteresis check at line two, setting quadrant in the decreasing direction.	('NV J. 7 20	12
2		e.	Switch solenoid back to automatic system, at test completion. Shut off current to ensure solenoid is mechanically held in automatic position.	150V I. 7. 2022	

NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058

AN BAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: Al1003

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**AEROWORKS** 

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	44 18		TASK			TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
	TABLE 2: E	NOV 17 20	23				
Mill		Quad +		3	££,		
Line	N <sub>1</sub> ±10	0.5	Minimum	Actual	Maximum		
1	1800	21	105	126)	123		
2	2600	55	186	217	226		Provide State
3	4100	100	675	690	725		191
	flow (Wf) b. Fully clos relief val	of $620 \pm 26$ F se throttling v	alve (13, Figure ain at a differe	704). The hig	h-pressure	10V 1 7 20	INSP 114 2011 - 201 OAW INSP 114
4. Sto		ard condition	e <b>463)</b> s, and then set e and inlet pres			W 1 2022	OAW INSP 114
		. Measure lea	alve (13, Figure kage at discharg			1 1 7 20. c	OAW INSP 114
	leakage e be reduce	exceeds this li ed in thicknes	e at $P_N$ port exc mit, shims (122 s, each by the s ction of 73-20-3	and 124, Figu ame amount	re 107) must		22
in t forr	he Final Test n. All other st	Data Form, O	hedule—T <sub>1</sub> at 5 AW-F-200-058, i formance of th l Test Data Forr	s replaced by e test must be	Table 1 in this followed in	DV 172012	

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NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058 AN EAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: AI1003

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			ТТ	ASK				TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
Ť	TABL	E 1: ACCELE	ERATION AND F	FACE CAM S	CHEDULE:	T <sub>1</sub> AT 59°F			-
	P <sub>1</sub>		N <sub>1</sub> (RPM)	a distance of		Fuel Flow			
ne	(in. Hg abs)	Min	Act	Max	Min	Act	Мах	NOV TO	
1	29.92	546	550	554	59	59	- 75	rov 17	2022
2	29.92	1696	007	1704	167	175	185		525 Mar 15
3*	29.92	2096	2100	2104	204	1216	226		MOV 172
4	29.92	3696	3700	3704	706	720	770		
5	29.92	4196	4200	4204	915	920	945		
		the Final 7	Fest Data fo	rm, OAW-I	page 463 -200-058	<b>3)</b> 3, is replace	d by Table 2	1:01 1 7 .	
fo	this forn	n. All othe 1 the same	<i>Test Data</i> for r steps in th	rm, OAW-I e perform s in the Fi	-200-058 ance of t nal Test	B, is replace the test must	d by Table 2 st be OAW-F-200-	NOV 172	22
fo	this forn llowed ir	n. All othe 1 the same TA	Fest Data for r steps in th sequence a BBLE 2: ALTIT	rm, OAW-I e perform s in the Fi	F-200-058 ance of t nal Test HEDULE	B, is replace the test must	it be	NOV 172	
fo 05	this forn llowed in 8.	n. All othe 1 the same	Test Data for r steps in th sequence a	rm, OAW-F e perform s in the Fi UDE (P <sub>1</sub> ) So	F-200-058 ance of t nal Test HEDULE F	3, is replace he test mus Data form,	it be		22 10V 17 202
fo	this forn llowed in 8.	n. All othe 1 the same TA P1	Fest Data for r steps in the sequence a BBLE 2: ALTIT	rm, OAW-F e perform s in the Fi UDE (P <sub>1</sub> ) Sc	F-200-058 ance of t nal Test HEDULE F	3, is replace he test mus Data form, Fuel Flow	st be OAW-F-200-		17 202
fo 05 Line	this forn llowed in 8.	n. All othe n the same TA P1 n. Hg abs)	Fest Data for r steps in th sequence a BLE 2: ALTIT N1 (± 4 RPM)	rm, OAW-F e perform s in the Fi UDE (P <sub>1</sub> ) SC	F-200-058 ance of t nal Test HEDULE F	3, is replace he test mus Data form, Fuel Flow	st be OAW-F-200- Max		
fo 05 Line 1*	this forn llowed in 8.	n. All othe n the same TA P1 n. Hg abs) 11	Fest Data for r steps in th sequence a ABLE 2: ALTIT (± 4 RPM) 3700	rm, OAW-F e perform s in the Fi UDE (P <sub>1</sub> ) SC	F-200-058 ance of t nal Test HEDULE F	3, is replace he test mus Data form, Fuel Flow	st be OAW-F-200- Max 288		17 202
fo 05 Line 1* 2 3	this forn llowed in 8.	n. All othe h the same TA P1 Hg abs) 11 15 29.92	Fest Data for r steps in the sequence a BBLE 2: ALTITIN (± 4 RPM) 3700 3700	rm, OAW-F e perform s in the Fi UDE (P1) SC Mi 26 35 70	F-200-058 ance of t nal Test HEDULE F	3, is replace he test mus Data form, Fuel Flow	t be OAW-F-200- Max 288 387		17 202

12.4

OZARK NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058 AEROWORKS Page 5 of 8 AN EAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: AI1003 TECHNICIAN INSPECTOR TASK INITIALS & DATE STAMP & DATE TABLE 3: THROTTLE SHAFT LEVER SCHEDULE NOV 1 7 2022 N<sub>1</sub> **Fuel Flow** Quad Line  $(\pm 0.5^{\circ})$ Min Act Act Max Min Max NOV 1 7 2022 2235 150 156 2155 2200 23 1 2235 2 26 150 156 2155 2980 3060 255 260 265 5030 3 38 260 2980 3060 255 265 3035 42 4 5\* 100 833 900 4566  $\mathcal{D}$ 4624 นกก \*SET MAXIMUM THROTTLE ADJUSTING SCREW WITH CONDITIONS OF LINE FIVE STABILIZED. APPROACH QUADRANT SETTINGS FROM LOW-SIDE. 8. Deceleration Setting (PDF page 467) Table 6 in the Final Test Data form, OAW-F-200-058, is replaced by Table 4 1 7 2022 in this form. All other steps in the performance of the test must be followed in the same sequence as in the Final Test Data form, OAW-F-200-058. TABLE 4: DECELERATION SETTING 'DV 17 202 DV 17 2022 **Fuel Flow** N<sub>1</sub> P<sub>1</sub> Line (in. Hg abs) (± 10 RPM) Min Act Max 4200 257 283 29.92 1 2 29.92 2800 127 141 17 2020 9. N<sub>1</sub> Governor Droop Schedule (PDF page 467) Table 7 in the Final Test Data form, OAW-F-200-058, is replaced by Table 5 in this form. All other steps in the performance of the test must be followed in the same sequence as in the Final Test Data form, OAW-F-200-058.

10/18/2021

NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058

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AN EAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: Al1003

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×				TAS	к					ECHNICIAN	INSPECTOR STAMP & DATE
-		Т	ABLE 5: N <sub>1</sub>	GOVERNO	R DROOP S	CHEDULE		8 É. 1	P2W	1 7 2022	NOV 17
			N <sub>1</sub>			Fuel Flow				a a auli	
	Line -	Min	Act	Ma	x Mi	in	Act	Мах			
	1*	4531	45%	) 458	39 88	12 9	DD	918			OAW
	2		4600			- 8	53				114
ĤΥ	STERESIS LIN	AIT: WITH	IN12 RPM	N <sub>1</sub> SPEED F	OR SAME FU	EL FLOW (	(W <sub>F</sub> ) AS ON	UP-RUN			
1.	Ac b. Se fu N1 44 Ac Ac Accelerat Table 9 ir 6 in this f	OTE: Fue et P <sub>1</sub> at 2 leel flow speed. 152 RPM ctual fue djusted tion and the Fin form. Al	22.5 inche of 842 to Adjusted el flow: N <sub>1</sub> speed: <b>d Face Ca</b> <i>hal Test E</i> l other sta	es H <sub>g</sub> abso 874 PPH N <sub>1</sub> speed m Sched Data form eps in the	. Record a d must be dule (T <sub>1</sub> at a, OAW-F-; e perform	adjust l actual fu within t : 100 Fi 200-058, ance of	N <sub>1</sub> peed el flow a he limits (PDF pa , is repla the test	to obtain a nd adjuste of 4365 to point	d 1 Mili le		
	058.	in the s	ame sequ	ence as 1	n the Fund	it rest D		I, UAW·F-20	00-	and and	
A NOT A	TABLE	6: Acc		/	CAM SCHE	DULE (T1					
e	P1	L	NI	(±4 RPM)		10 A.	W <sub>f</sub> P	PH			
ALC: P	(in. H <sub>g</sub> A	(DS)	Min	Act	Max	Min	Ac	Max			
	29,92		1196	~	1204	97		113			
1	28.92	1	2896	254	2904	323		345	3.14		Statistic
/	29.92	2	2696		3704	645		703			
	22.50		4425		4489	652		678			

FAA Repair Station #: XGIR979K

Face cam schedule

10/18/2021

OAW-F-200-059

NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058

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AN EAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: AI1003

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	i <u>ili</u> guil	J.	Т	ASK			TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
T 7 f	able 11 in t in this forr	the Final T n. All othe	Fest Data fi er steps in i	the performan	00-058, is re- ice of the tes	rm, OAW-F-200-		
λe π	TABL	e 7: Air-B		r Line Schedul	E: T₁-59°±3	Van	17 2022	
	PSIG	T <sub>1</sub>	Fuel F	low (PPH)	N <sub>1</sub> (	PM	6 er mer -	2 (1994) 1994
. 44	(± 0.25)	(±3°F)	Min	Act Max	Min A	ct Max	30 C - 2	
OPEN	30.6	59	784	16	3902	3978		
CLOSED	32.6	59	784	16	3965	4055		
OPEN	30.6	59	392	¥ 408	3315	3385	- <b>1</b> 9	
CLOSED	32.6	59	892 N	408	3367	3457		
OPEN	30.6	59	324	336	3185	3255	State State	a states
CLOSED	32.6	59	324	336	3235	3311	. = " =	
OPEN	30.6	59	220	230	3127	3197		100
CLOSED	32.6	59	220	230	3170	3260	177.840 (P-2)	
	NOTE: Chec feedback c countercloo a. Adju two	ck main fu am arm (2 ckwise fro ust T <sub>1</sub> temp 0 to 200 F	iel regulat , Figure 1 om the scri perature to	or cover asse 02) is indexed be line on the 59° ±2°F. The o the wo IGV	mbly to dete I two teeth e cam shaft. en connect ty	wo lines with	NOV 172	022
	(W <sub>f</sub> )	tup test st of 600 ±1 SIG.	and and ad OPPH, and	ijust N₁ speed set control dis	so as to obta scharge press	ain a fuel flow sure (P <sub>N</sub> ) to 50	YOV 1 7 202	
	the	two press e than 20	ure gauge i PSIG of eac	RPM, and move readings are each other. Shut 200 PSIG gaug	qual or stable down test st	e within no and, and	17 202	

NOTE: USE IN CONJUNCTION WITH FINAL TEST DATA FORM, OAW-F-200-058

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AN EAGLE PARTNER P/N: 1-170-780-01 Model #: TA-7 S/N: 672AS1023 W.O. #: Al1003

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	Task	TECHNICIAN	INSPECTOR STAMP & DATE
d.	With these conditions set, the edge of the feedback cam arm must align with the edge of the IGV boss on the cover, farthest from he air-bleed cover, within $\pm 15$ degrees. If this position cannot be obtained, re-index the feedback cam arm on its shaft as required, and recheck the null position.	NOV I 7	1022
	NOTE: Indexing one tooth on the spline will change the feedback cam arm approximately 10 degrees. A range of $\pm 2$ teeth in position from the nominal position is permitted. The scribe line on the shaft is in line with the open end in the feedback cam arm when the arm is in the nominal position.		
e.	When the pressure gauge readings have been stabilized and the null position of the feedback cam arm has been obtained, shut down the test equipment and disconnect both IGV gauges.	"DV 17 2022	
f.	Set $N_1$ speed at 550 ±4 RPM, and set $P_1$ at 29.92 inches $H_g$ absolute. Move the feedback cam arm from full counterclockwise position to a horizontal position, checking fuel flow during the cam arm travel. Fuel flow must remain between 60 and 74 PPH. Record actual fuel flow.	MOV 2 7 202	3 194 172
	Actual Fuel Flow: CAUTION: DO NOT ROTATE FEEDBACK CAM ARM BEYOND THE HORIZONTAL POSITION.		OAW INSP 114
g.	Rotate feedback cam arm counterclockwise from the horizontal position and leave in that position for the remainder of final test.	19V 1721	22

OZARK AEROWORKS			Page 1 of 10
AL NO HONNO	P/N: 1-160-850-23 Model #: PTG-3 S/N: 652		#: AI1003
AN LAVEL CARINE		only te	hieren
NOV 1 7 9099	Таѕк	TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
	List: 652AM2506 Operator:	NOV 172	22
Test Performed I.A.W.:	75-20-02 Stand: <u>LTCT 319</u>		
1. GENERAL (PDF PAGE		Constanting of	Salan and
test of the assembled pow	in servo valve break-in, component adjustment, and final ver turbine governor (PTG-3 and PTG-1 Series). The de all necessary shimming and adjustments required to	769	
Regulator may be comple TA-7 <sup>.</sup> Regulator. Section 2	and adjustment for PTG-3 Series Governor with TA-7 ted using the Governor Flow Test Fixture or a calibrated describes the procedure using the flow test fixture. rocedure using a calibrated TA-7 Regulator.	Carlot City	
NOTE: Final adjustment spares.	and test is not required for governors shipped as		
2. OPTIONAL METHOD F	OR BREAK-IN AND ADJUSTMENT OF PTG-3 SERIES GOVER	NOR WITH A TA-	7 REGULATOR
assembled to known to be mounted on f mounting (wi measuring de applicable Ma Calibrating fl temperature be filtered w (Figure 703 (f	vernor setting may be performed with the governor a Model TA-7 regulator P/N: 107700 or 106500, which is operable and within limits. The fuel control unit is uel control test stand, LTCT319, to simulate engine th quadrant STD63973 installed). Necessary indicating and vices are connected into the test system (refer to ain Fuel Regulator Overhaul instructions manual). uid Type 2 (reference MIL-PRF-7024, Type II), at a of 70° F to 80° F, must be used during testing. Fuel should ith a 10-micron filter before entering the control inlet test set-up), PDF page 119).	NOV 1 7 2022	
1065 • Fuel • Test • Torqu	equired: rated TA-7 P/N: 100770A3 or later configuration or P/N: 20A1 or later configuration control test stand LTCT 319 quadrant STD63973 Je adapter STD65561 rating fluid MIL-PRF-7024, Type II		
For all calibr be maintaine Manu Fuel Fuel Fuel Fuel	regulator settings and conditions: ation and cycling tests, the following fixed variables will d, unless instructed otherwise: al operation switchover valve in automatic position inlet temperature 75 ±5° F pressure at control unit inlet: 2 to 10 PSIG control outlet pressure set to provide 300 ±10 PSI at 900 flow rate	NOV 1 7 2022	

Rev. 0

10/20/2017

OAW-F-200-062



P/N: 1-160-850-23 Model #: PTG-3 S/N: 652AM2506 W.O. #: Al1003 AN EAGLE PARTNER

<ul> <li>B. Preparation for break in: Vent the entrapped air in the governor through the power turbine upper (20, 20A).</li> <li>Install the plastic or equivalent bleed line after removing vent plug (20, 20A).</li> <li>Set the regulator at the standard conditions listed above, and run the unit until a steady stream of fuel is flowing from the bleed line.</li> <li>Start the N<sub>2</sub> governor drive.</li> <li>Start the N<sub>2</sub> governor drive.</li> <li>Servo break-in procedure: This procedure is required for all new servo assemblies not previously run in an N<sub>2</sub> governor.</li> <li>Set standard conditions listed in Section 3, Step A.2.</li> <li>Back out both minimum and maximum stop adjustment bolts (70, 75, Figure 1001, PDF pages 135-137).</li> <li>Run the N<sub>2</sub> governor at a speed of 1000 RPM, and move stop lever through its full travel range. Full flow should increase and decrease at least 300 PPH as the stop lever (85) in position; at, fuel flow is approximately in the middle of the fuel flow range. <i>How Should</i> increase and decrease at least 300 PPH as the stop lever (85). Figure 1001; PDF pages 135-137) can be moved through its full ravel range. While fuel flow remains constant, test cover. 81064779 must be installed if it was removed. Use upper cover hardware to secure test cover. Run governor at 1000 RPM, and adjust test cover adjusting screw to obtain a fuel flow change of at least 300 PPH when the manual shaft stop lever is moved.</li> <li>Break in governor at a speed of 1000 RPM for a period of 30 minutes  <ul> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed</li></ul></li></ul>	Таѕк	TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
<ul> <li>the unit until a steady stream of fuel is flowing from the bleed line.</li> <li>3. Start the N2 governor drive.</li> <li>3. Start the N2 governor at a speed of all new servo assemblies not previously run in an N2 governor.</li> <li>3. Set standard conditions listed in Section 3, Step A.2.</li> <li>3. Back out both minimum and maximum stop adjustment bolts (70, 75, Figure 1001, PDF pages 135-137).</li> <li>3. Run the N2 governor at a speed of 1000 RPM, and move stop lever through its full travel range. Fuel flow should increase and decrease at least 300 PPH as the stop lever (85) in position; eq. fuel flow is paper in the middle of the fuel flow range. The 100 SPWK in NOTE: if manual shaft stop lever (85, Figure 1001, PDF pages 135-137) can be moved through its full travel range. The 100 SPWK in NOTE: if manual shaft stop lever (85, Figure 1001, PDF pages 135-137) can be moved through its full travel range. The 100 SPWK in NOTE: if manual shaft stop lever (85, Figure 1001, PDF pages 135-137) can be moved through its full travel range. The 100 SPWK in NOTE: if manual shaft stop lever (85, Figure 1001, PDF pages 135-137) can be moved through its full travel range rew to obtain a fuel flow change of at least 300 PPH when the manual shaft stop lever is moved.</li> <li>5. Breek in governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>6. Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>7. Sunt the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>8. Governor component adjustment:</li> <li>NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.</li> <li>1. Equipment required is the same equipment listed in Section 3, Step</li> </ul>	Vent the entrapped air in the governor through the power turbine upper cover as follows: 1. Install the plastic or equivalent bleed line after removing vent plug		a second s
<ul> <li>Servo break-in procedure: This procedure is required for all new servo assemblies not previously run in an N<sub>2</sub> governor.</li> <li>Set standard conditions listed in Section 3, Step A.2.</li> <li>Back out both minimum and maximum stop adjustment bolts (70, 75, Figure 1001, PDF pages 135-137).</li> <li>Run the N<sub>2</sub> governor at a speed of 1000 RPM, and move stop lever through its full travel range. Fuel flow should increase and decrease at least 300 PPH as the stop lever is moved from stop to stop.</li> <li>Set and lock manual shaft stop lever (85) in position; ao, fuel flow is pay in the middle of the fuel flow range while fuel flow remains constant, test cover 8TD64779 must be installed if it was removed. Use upper cover fardware to secure test cover. Run governor at 1000 RPM, and adjust test cover adjusting screw to obtain a fuel flow change of at least 300 PPH when the manual shaft stop lever is moved.</li> <li>Break in governor at a speed of 1000 RPM for a period of 30 minutes <ul> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> </ul></li></ul>		NOV 7 203	2
<ul> <li>This procedure is required for all new servo assemblies not previously run in an Ng governor.</li> <li>Set standard conditions listed in Section 3, Step A.2.</li> <li>Back out both minimum and maximum stop adjustment bolts (70, 75, Figure 1001, PDF pages 135-137).</li> <li>Run the Ng governor at a speed of 1000 RPM, and move stop lever through its full travel range. Fuel flow should increase and decrease at least 300 PPH as the stop lever is moved from stop to stop.</li> <li>Set and lock manual shaft stop lever (85) in position; so, fuel flow is paproximately in the middle of the fuel flow range. A no encode through its full travel range while fuel flow is paper. The encode of the set of the stop lever adjusting screw to obtain a fuel flow change of at least 300 PPH when the manual shaft stop lever a fuel as to lever adjusting screw to obtain a fuel flow change of at least 300 PPH when the manual shaft stop lever is a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> </ul>	3. Start the N <sub>2</sub> governor drive.	NOV 1 2 2022	
<ul> <li>75, Figure 1001, PDF pages 135-137).</li> <li>3. Run the N<sub>2</sub> governor at a speed of 1000 RPM, and move stop lever through its full travel range. Fuel flow should increase and decrease at least 300 PPH as the stop lever is moved from stop to stop.</li> <li>4. Set and lock manual shaft stop lever (85) in position; ad, fuel flow is paper oximately in the middle of the fuel flow range. The Note of the manual shaft stop lever (85, Figure 1001, PDF pages 135-137) can be moved through its full travel range while fuel flow remains constant, test cover 8TD64779 must be installed if twas removed. Use upper cover hardware to secure test cover. Run governor at 1000 RPM, and adjust test cover adjusting screw to obtain a fuel flow range at each break-in speed: <ul> <li>Break in governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> </ul> </li> <li>Sovernor component adjustment: <ul> <li>NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.</li> <li>Equipment required is the same equipment listed in Section 3, Step</li> </ul> </li> </ul>	This procedure is required for all new servo assemblies not previously run in an $N_2$ governor.		
<ul> <li>through its full travel range. Fuel flow should increase and decrease at least 300 PPH as the stop lever is moved from stop to stop.</li> <li>4. Set and lock manual shaft stop lever (85) in position; so, fuel flow is approximately in the middle of the fuel flow range. A flow provide the moved through its full travel range while fuel flow remains constant, test cover 8TD64779 must be installed if it was removed. Use upper cover hardware to secure test cover. Run governor at 1000 RPM, and adjust test cover adjusting screw to obtain a fuel flow range of at least 300 PPH when the manual shaft stop lever is moved.</li> <li>5. Break in governor as follows, ensuring it is approximately in the middle of the fuel flow range at each break-in speed: <ul> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> </ul> </li> <li>c. Governor component adjustment: <ul> <li>NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.</li> <li>Lequipment required is the same equipment listed in Section 3, Step</li> </ul> </li> </ul>			17 2022
<ul> <li>133-137) can be moved through its run traver range while toel flow remains constant, test cover STD64779 must be installed if it was removed. Use upper cover hardware to secure test cover. Run governor at 1000 RPM, and adjust test cover adjusting screw to obtain a fuel flow change of at least 300 PPH when the manual shaft stop lever is moved.</li> <li>5. Break in governor as follows, ensuring it is approximately in the middle of the fuel flow range at each break-in speed: <ul> <li>Run the governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> <li>Governor component adjustment:</li> </ul> </li> <li>NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.</li> <li>Lequipment required is the same equipment listed in Section 3, Step</li> </ul>	through its full travel range. Fuel flow should increase and decrease		
<ul> <li>middle of the fuel flow range at each break-in speed: <ul> <li>Run the governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30 minutes</li> </ul> </li> <li>Governor component adjustment: <ul> <li>NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.</li> <li>Equipment required is the same equipment listed in Section 3, Step</li> </ul> </li> </ul>	flow remains constant, test cover 8TD64779 must be installed if it was removed. Use upper cover hardware to secure test cover. Run governor at 1000 RPM, and adjust test cover adjusting screw to obtain a fuel flow change of at least 300 PPH when the manual	eeded	
NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.       NOV 17 2022         1. Equipment required is the same equipment listed in Section 3, Step	<ul> <li>middle of the fuel flow range at each break-in speed:</li> <li>Run the governor at a speed of 1000 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 2500 RPM for a period of 30 minutes</li> <li>Run the governor at a speed of 4000 RPM for a period of 30</li> </ul>		
	NOTE: Item numbers refer to Figure 1001 (PDF pages 135-137), unless otherwise specified.	NOV 1 7 202	22
A.1., this section.	<ol> <li>Equipment required is the same equipment listed in Section 3, Step A.1., this section.</li> </ol>		



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Таѕк	TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
<ol> <li>Procedure:         <ul> <li>a. Remove unit upper cover assembly or test cover by removing screws (40,45) and washers (50). Remove pin (165, 165). Then remove lever and roller assembly (200, 200A). Carefully remove spring guide (205, 205A, 205B, 205C).</li> </ul> </li> </ol>	MOV 1720	the lot of the second s
b. Retain the same thickness of shims as installed during assembly. Re-assemble lever assembly and upper cover assembly.	V 172022	
c. Install test fixture quadrant (STD63973) over governor manual control shaft (100, 100A) as shown in Figure 702, PDF page 112).	NOV 17 20	22
<ul> <li>After governor and test equipment are set up, set the fuel regulator to standard conditions, but do not start N<sub>2</sub> test drive. Vent entrapment air through top cover port through the plastic bleed line.</li> </ul>	1 2022	
e. Start test stand N2 drive. Drive must run clockwise when looking at test stand drive.	NOV 17 202	2
f. Set quadrant pointer to zero degree. Increase speed slowly to 4023 $\pm$ 4 RPM. Move quadrant pointer quadrant until fuel flow is 300 $\pm$ 10 PPH. At this fuel flow reading, the pointer must be on the high-speed side and within 7 $\pm$ 2 degrees of centerline (zero-degree mark) toward the high-speed stop (Figure 702, PDF page 112).	17 2022	
g. If pointer registers too far on the low side, remove a quantity of shims (210) to bring within limits. If pointer registers too far on the high side, add shims to qualify limits.	17 2022	
<ul> <li>3. Adjustment settings maximum and minimum stops:</li> <li>a. Set low sped adjustment as follows: <ol> <li>i. Set speed to 3270 ±4 RPM. Move pointer on low side until fuel flow is 400 ±5 PPH.</li> </ol> </li> </ul>	MOV 17 202	-
ii. Screw in low speed stop adjustment bolt (75) flush with stop lever (85).	"DV 1 7 202	2
iii. Secure adjustment bolt with check nut (80), while holding fuel flow at 400 ±5 PPH. Torque check nut 20 to 30 inch-pounds, using torque adapter STD65561. Torque Wrench #: <u>DITSOUTT</u>	COV 1 7 2021	



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		TASK			TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DA
i i	i. B	speed stop adjustm Fring speed up to 44 00 ±5 PPH by movin n Figure 702 (PDF p	150 ±4 RPM, and ng pointer on hig		NOV 1. 7 202.	
= ~~~	t c T	crew in high speed ouch manual shaft heck nut (80), mak orque check nut 20 dapter STD65561.	stop lever (85). Sing sure not to d	Secure bolt iwht listurb setting.	OV I 7 2028	
	v	Run Line 1 and 2 of vithin limits. If not, ssembly.		e they fall per cover	V 1 76 2022	
1	TABLE 1: DROOP SCI	hedule (Lever at Ma	XIMUM SPEED STOP	<b>'</b> )		
		N. Course	WF-	PPH	and the state of the	
LINE	N <sub>1</sub> SPEED	N <sub>2</sub> SPEED	Min	Max		
1	4000	4235-4291	735	765		
2*	4000	4440-4460	392	408		
0.14	0000	2745 2755			A STATE OF STATES	and shared
	2000 : ±8 PPH when se	3745-3755 ettling same N <sub>2</sub> spee	125 ed; ±12 RPM whe	155 n setting same		
teresis limit flow (Wf).	iv. B against low spee	ettling same N <sub>2</sub> spee ed stop. Eack off machine sc issembly, and use le idjust fuel flow. IOTE: Screw in leve uel flow. Back out	ed; ±12 RPM whe rew (175) lever a ever adjusting sc er adjusting scre	and roller rew (170) to ew to decrease	MOV 1. 7 2022	
steresis limit flow (Wf).	iv. B against low spee iv. B a a b f f f v. R f f f v. R	ettling same N <sub>2</sub> spee ed stop. Back off machine sc Issembly, and use le Idjust fuel flow.	ed; ±12 RPM whe rew (175) lever a ever adjusting screa adjusting screa ber cover assemb Section 3, Step mits. Reassembl ments set forth	and roller and roller arew (170) to ew to decrease to increase bly, test, and D.3.b.iii. until e as outlined in in Section 3,	1'OV 1.7 2022	



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	Таѕк	TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
	vii. Readings on the decreasing speed run must be within readings on the increasing speed run at the set point only. If hysteresis is not within limits specified, do not proceed further until cause of hysteresis is eliminated.	OV 1.7 2022	
С.	Ensure pointer total travel from low speed stop adjustment to high speed stop adjustment is $60 \pm 4$ degrees.	MOV I T 2022	
d.	With $N_2$ speed set at 4270 ±30 RPM and the manual shaft stop lever against the high-speed stop adjustment bolt, vary Ps pressure from 100 to 700 PSIG. Fuel flow must not move more than 42 PPH.	11 IN IN 7 2022	ALC
e.	Set manual shaft stop lever at high-speed, and set $N_2$ speed to 4270 ±20 RPM. Apply $P_B$ pressure of 50 PSIG—leakage from drain port must not exceed 0.4 cc per minute. Reduce speed to 0 RPM, and maintain $P_B$ pressure of 50 PSIG— leakage from drain port must not exceed 0.4 cc per minute. <b>NOTE:</b> The drain lines at the $N_2$ drives should be so arranged that the drain leakage can be observed at any time throughout the test. Observe to ensure no governor leakage exists except at the governor ( $N_2$ ) seal drain. At no condition should the drain leakage exceed 0.4 cc per minute.	M'NV 1 7 202	177 1 7 Oaw INSP 114
f.	Complete final test on calibrate TA-7 fuel regulator per [1] Section 4.	V I 7 2022	
	FEST (MOUNTED ON FUEL CONTROL)		
	the PTG-3 and PTG-1 Series governors will be divided into ty. The following step, A, applied to both series.	And the set	
he governor (N <sub>2</sub> ) seal ).4 cc per minute. Dra	ts, observe to ensure no governor leakage exists except at drain. At no condition should the drain leakage exceed ain lines at the N <sub>2</sub> drives should be arranged; so, the drain ed at any time during test.		



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Task	TECHNICIAN	INSPECTOR STAMP & DATE
<ul> <li>A. Set-up and equipment: CAUTION: ENSURE CALIBRATING FLUID, MIL-PRF-7024: TYPE II, USED FOR TESTING HAS NOT DETERIORATED. CALIBRATING FLUID, PARTICULARLY IN SMALL VALUME, SELF-CONTAINED TEST STANDS, TENDS TO BECOME EXTREMELY OXIDIZED IN A RELATIVELY SHORT TIME (FOUR TO SIX MONTHS). OVEREXPOSURE OF NITRIL PACKING, TYPES MS9021 AND MS29513, TO OLD CALIBRATING FLUID WITH A HIGH OXIDATION POTENTIAL CAN RESULT IN HARDENING AND CRACKING OF THOSE PACKINGS SUBSEQUENT TO OVERHAUL. A SIMPLE TEST TO DETERMINE THE ACCEPTABILITY OF THE CALIBRATING FLUID MAY BE PERFORMED PERIODICALLY. SOAK A SAMPLE NITRILE PACKING IN CALIBRATING FLUID FOR 24 HOURS. AT 158°F FOR 24 HOURS AT 158°F, DRY THE PACKING AT 158°F FOR 24 HOURS. MODERATE HARDENING OF THE PACKING IS ACCEPTABLE, BUT CRACKING, EXTREME HARDENING, OR OTHER DAMAGE IS REASON TO CHANGE THE CALIBRATING FLUID. UPON COMPLETION OF THE FINAL TEST, THOROUGHLY FLUSH THE GOVERNOR WITH GRADE 1010 LUBRICATING OIL TO REMOVE ANY RESIDUAL CALIBRATING FLUID.</li> <li>Final testing of governor setting is performed with the governor assembled to a Model TA-2B, TA-2G, TA-2S, or TA-7 regulator, which is known to be operable and within limits. The fuel control unit is mounted on fuel control test stand, LTCT319, to simulate engine mounting (with quadrant STDG3973 installed). Necessary indicating and measuring devices are connected into test system. (Refer to applicable Main Fuel Regulator Overhaul instructions Manual.) Calibrating fluid Type II (reference MIL-PRF-7024: Type II), at a temperature of 70°F to 80°F, must be used during testing. Fuel should be filtered before entering the control inlet with a 10 micror filter. If, during testing, it's not possible to obtain test data at the set points, stops may be reset, provided the manual shaft stop lever travel between low and high-speed stops remains 60 ±3 degrees. Only slight adjustment should be required. If large adjustment is required to meet set points, the governor must be recalibrated as outlined in Section 2, Step D or S</li></ul>	1.0V J J	
b. With the governor mounted on the main fuel regulator running at 3900 RPM, 100-degrees quadrant setting, start the governor drive.	1. 2V 1 7 202	2
c. Set governor at high-stop, and gradually bring N <sub>2</sub> governor speed to 4450 RPM. Run unit for 10 minutes prior to making any governor adjustments.	176 172	22



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		TASK			TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
	govern high c	the last five minutes of the r for manual shaft stop lever fro am position a minimum of 10 g of air from servo valve area	om low cam p times to ensu	osition to	1'OV 1 7 2	
2.	settings and co otherwise species Manual Fuel ir Fuel p Fuel co setting Discha the species (P <sub>N</sub> ) us the dis unless Air pre-	l operation switchover valve i nlet temperature 70°F to 80°F ressure at control unit inlet (F ontrol outlet pressure (P <sub>N</sub> ) is s	during testin n automatic P <sub>8</sub> ) 3 ±3 PSIG set to the foll I for TA-7 mo g an N <sub>1</sub> spee ting the outl port. Leave the balance of mercury a	g, unless position owing dels d to obtain et pressure the valve at of testing,	N'OV I 7 21	22
manual manual	stop lever to c stop lever pos n must be 7 ±2 n.	imming: Set speed at 4023 ±4 btain a fuel flow (Wf) of 300 = ition as indicated by quadrant degrees on the high speed sid BLE 2: TEST SPEEDER SPRING SHI/	±10 PPH. The STD63973 pc e. Record po	adjusted binter	MOV 2 7 202	
		and the second second	POINTER	POSITION		
N <sub>2</sub>	WF	STOP LEVER	PERMITTED	RECORDED		
402	3 300 ±10	Adjust to obtain fuel flow	7° ±2°	(30)	and the second second	
Section 4, Step	A, Step A.1., a A.2., proceed Low speed sto a. Set N <sub>1</sub> at 327 Figure		gs as outlined ulator), and s adjustment obtain a fuel	d in Section set N <sub>2</sub> speed bolt (75,	NOV 1 7 2022	

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			TASK				TECHNICIAN	INSPECTOR STAMP & DATI
		TABLE 3: LOW	SPEED STOP	CALIBRATIO	N		1'DV 17	2029
an and		N <sub>2</sub>			FUEL FLOW			
N <sub>1</sub>	Min	ACTUAL	MAX	Min	ACTUAL	Max		and the second
4000	3260	3260	3280	395	400	405	1 - 1 - C	
	Section a.	4, Step A.2., Set N <sub>1</sub> speed maximum sto 135-137) for	proceed as at 4000 RPA op adjustme a fuel flow 4 RPM. Lock ting.	follows: A (TA-7 reg nt bolt (70 (Wf) of 400 c maximum	stop, and rec	st PDF pages N <sub>2</sub> speed	"V 17 2022	
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		N <sub>2</sub>			FUEL FLOW			5
N <sub>1</sub>	Min	ACTUAL	MAX	Min	ACTUAL	Max	-0	
4000	4446	4450	4454	395	400	405	-	-10 10-1-1
	3. N/A: Dr	Ensure quadr stop is 60 ±4 Recorded qua oop schedule	degrees. adrant trave	el: <u>58</u>	Deed stop to lo		'OV 1 7 2022	
	TA-2S o	chedule at hi r TA-7 Series Run lines 1 tl and recordin and decreasi	regulator: hrough 3 of g the corres	Table 5, se ponding W runs at Lir	3 Series gover etting N <sub>1</sub> and N f. Make both i ne 2 in Table 5	N <sub>2</sub> speeds increasing 5).	1')V 1 7 20.	2

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		TASK				TECHNICIAN INITIALS & DATE	INSPECTOR STAMP & DATE
TABLE 5: DI		PTG-3 Series Gov Lever at Maximu/			7 REGULATOR		
Contract	Marine Street		1 2 4	₩ <sub>F</sub>		NOV 1 7 20	10
LINE	N <sub>1</sub> Speed	N <sub>2</sub> SPEED	Min	ACTUAL	MAX	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	40
1	4000	4235-4291	735	750	765		
2*	4000	4440-4460	392	400	408		and the
3**	2000	3745-3755	125	146	155		
	seal leakage	M, increase N <sub>2</sub> s <sub>2</sub> Table 6: Le				MOV 1 7 2022	
				DRAIN LEAKAC	E (CC/MINUTE)		
	N <sub>2</sub>	PB	PN	PERMITTED	RECORDED		
N <sub>1</sub>	112	EN DE CAR		TEIMITTED	The second second second	and the second sec	REAL
N <sub>1</sub>	0	50	0	0.4	0		
and the second		50 50	0 610	Contractive Section of the	0		
0	0			0.4	0		
0 4300	0 4600		610 must not e	0.4 0.4	0.2 er minute. No	E 7,2022	
0 4300 2 E. Close 1	0 4600 2. Governor se governor ex e-Up 1. Shut down t and test sta	50 al drain leakage ternal leakage is est equipment, nd.	610 must not e permissib and remov	0.4 0.4 exceed 0.4 cc per le except through e governor from	er minute. No gh drain porfu	1'3V 157 2022	A'DV 7 7
0 4300 2 E. Close	0 4600 2. Governor se governor ex e-Up 1. Shut down t and test sta 2. Check that staked in sc	50 al drain leakage ternal leakage is est equipment,	610 must not e permissib and remov D, Figure 1 ).	0.4 0.4 exceed 0.4 cc place except through e governor from 001, PDF pages	O O.Z er minute . No gh drain por Ju n fuel regulator 135-137) are	1'IV 17 2022	A'DV 17 OAW INSP 114



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	TECHNICIAN INITIALS & DATE
한 날 잘 보셨	109-32L
	1.1.2