

	REGISTRO RECORD	REVISÃO REVISION 01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE 1/4

COMPONENTE Component	O.S W.O	MODELO Model	PN	SN
FUEL CONTROL UNIT		DP-F2 Main Fuel Control Unit		

IDENTIFICAÇÃO IDENTIFICATION	
TÍTULO TITLE	FICHA PARA REGISTROS DE TESTE DA FUEL CONTROL UNIT FUEL CONTROL UNIT TEST SHEET

PUBLICAÇÃO PUBLICATION	REFERÊNCIA REFERENCE	TLN	DATA DATE
COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST	73-20-22	TLN02409	Jan. 23,2020 Revision 06
		CONJUNTO MAIOR MAIN PART	
		PN	SN

Teste Aplicável aos Part Numbers Test Applicable to Part Numbers		
3244768-1	3244768-2	3244768-3

TESTE DA UNIDADE DE CONTROLE DE COMBUSTÍVEL FUEL CONTROL UNIT TEST				
ITEM Item	PROCEDIMENTOS TOLERÂNCIAS Procedures Serviceable limits	Resultado Result	Data Date	Executante Performed by
A	Instale a MFCU na bancada de teste usando o adaptador estriado e adaptador de montagem, ou equivalente. <i>Assemble the MFCU to the test stand, using spline adapter and mounting adapter, or equivalent.</i>			
B	Remova o plug da porta e instale o acessório especial PN 2561527. Remova o plug e instale um adaptador padrão nas portas. <i>Remove plug from port and assemble PN 2561527 special fixture. Remove plug from port and install a standard adapter.</i>			
C	Remova o contra pino, porca e espaçador do eixo de aceleração. Instale o quadrante de aceleração na extremidade do eixo de aceleração e torqueie de 40-45 lb.in. <i>Remove cotter pin, nut, and spacer from throttle shaft. Assemble throttle quadrant on end of cam shaft and tighten to 40-45 lb.in.</i>			
D	Mantenha uma pressão Po de 30-50 psig na conexão de Po, exceto quando houver outra especificação. Mantenha a pressão P2 dentro de ± 10 psi do valor especificado em pressões abaixo de 200 psig e dentro de ± 25 psi em pressões mais altas, usando a válvula reguladora de contrapressão Pn. <i>Maintain a Po pressure of 30-50 psig on Po pressure gage, except where otherwise specified. Maintain P2 pressure within ± 10 psi of the value specified at pressures below 200 psig and within ± 25 psi at higher pressures, using Pn back pressure regulator valve.</i>			
E	Aumente a pressão do combustível (P1) e observe o início do fluxo de combustível. Durante o teste, ajuste e mantenha a (Po) a 40 ± 2 psig. <i>Increase fuel supply pressure (P1) and observe start of fuel flow. During this test, adjust and maintain (Po) at 40 ± 2 psig.</i>			

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TESTE DA UNIDADE DE CONTROLE DE COMBUSTÍVEL FUEL CONTROL UNIT TEST				
ITEM Item	PROCEDIMENTOS TOLERÂNCIAS Procedures Serviceable limits	Resultado Result	Data Date	Executante Performed by
F	Abra a shut-off valve e ajuste a pressão (Pn) para 160 psig. <i>Open shut-off valve and adjust (Pn) pressure to 160 psig.</i>			
G	Ajuste o parafuso de pressão diferencial (P1-P2) para 30-48 in.Hg. Ajuste o orifício da válvula de medição usando a chave de regulagem até a pressão diferencial e o fluxo de injeção estiverem dentro dos limites especificados. <i>Adjust P1-P2 pressure differential to 30 to 48 in.Hg. Adjust metering valve orifice using metering valve orifice adjustment wrench, until pressure differential and nozzle flow are within specified limits.</i>			
H	Defina os parâmetros conforme ponto de teste e com a vent cover removida, ajuste a porca até o fluxo de injeção ler de 9-13 pph. <i>Set parameters at test point and with vent cover removed, adjust nut, until nozzle flow reads 9 to 13 pph.</i>			

CALIBRAÇÃO E LIMITAÇÃO DOS TESTES | CALIBRATION AND TEST LIMITATIONS

Calibration and Test Limitations For Units P/N 3244768-1, -2 & -3										
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.		P1-P2 (In.-Hg.)	P2 (psig)	MISCELLANEOUS	NOTES
										NOTES
<u>Relief Valve Opening Check</u>										
SEQ	1	4	2	3						
1.01	AR	200/275	MAX.	120				P1-Po (psi) 1000 1050		1.
<u>Pressurizing Valve Opening Check</u>										
SEQ.	1	4	2	3						
1.02	AR	AR	MAX.	120				P1-Po (psi) 55 68 Pn (psig)		2.
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting</u>										
SEQ.	2	3,6	1	4				5		
2.01	6200	1300	95	40.0	243	253		175		3.
2.02	2900	660	28-30	40.0	90	93		35		
								P2 (psig)		
*	2.03	6200	1300	95	90.0	547	569	760	Pc-Py	3,4.
2.04	6200	1300	95	120.0	729	759	950			

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Calibration and Test Limitations For Units P/N 3244768-1, -2 & -3											
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph)		P1-P2 (In.-Hg.)	P2 (psig)	MISCELLANEOUS	NOTES	NOTES
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting (Cont'd)</u>											
* 2.05	6200	1300	95	135.0	754		X	950			5. Set max. metering valve stop.
* 2.06	6200	1300	95	135.0	578		593	870		5.	6. Hysteresis from Test Point 2.01.
								Pn (psig)			7. Record nozzle flow.
* 2.07	6200	1300	95	40.0	-10		10	175		6.	8. Record Px air flow jet (95, IPL Fig. 1001) size finally installed (size 49D to 55D).
								P2 (psig)			9. Set governor break throttle angle at 92.5 to 94.5 degrees. To avoid possible fouling of throttle stop lever assembly (465, IPL Fig. 1001) against throttle stop (525), gap between throttle stop (525) and machined surface of throttle stop lever assembly (465), must be 0.030 inch minimum (Ref. Fig. 711).
<u>Speed Bias Spring Setting</u>											
SEQ.	2,7	3,6	1	4				5			
3.01	6200	1300	95	70	X		X	480			
3.02	5950	1170	95	70	-9		-13	450		7.	
3.03	4000	900	95	70	391		407	410	Bleed Size	8.	
<u>Governor Spring Setting</u>											
SEQ.	4	3,7	1	2,5				6			
4.01	6487	1450		95	492		504	625		9.	
4.02		1450		95		481		590			
4.03		1450		95	371		391	410	Bleed Size	10.	
4.04		1450		95		481		590	Hysteresis	11.	

Calibration and Test Limitations For Units P/N 3244768-1, -2 & -3											
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph)		P1-P2 (in. Hg.)	Pn (Psig)	MISCELLANEOUS	NOTES	NOTES
<u>Idle Speed Stop Setting and Throttle Pick-up Angle</u>											
SEQ.	4	1,7	5	2,6				3,8			
5.01	3250	740	28-30	30.0	115		125	42			
5.02	3250	740		30.0	X		X		Spring Stripes	12.	
<u>Low End Acceleration and Throttle Movement Effect</u>											
SEQ.	2	3	1					4,6			
6.01	815	200	40	Ambient	85		X	25			
6.02	1700	400	40	25.0	138		146	60	pph Decr.	13.	
<u>Maximum Idle Reset Stop Adjustment</u>											
SEQ.	1	3,5	2					4			
7.01	4380	990		70	262		274	210		14.	
<u>Cut-off Modulation and Cut-off Leakage</u>											
SEQ.	2	3,6	1	4				5,7			
8.01	2000	500	20	AR	160		170	60	pph Incr.	15,16.	
8.02	2000	500	8-10	AR	0		0.5 c.c./min.		P1 pressure	16,17.	
8.03	2000	500	-5	AR					P1 pressure	18.	

Calibration and Test Limitations For Units P/N 3244768-1, -2 & -3												
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph)		Pl-P2 (In.-Hg.)	Pn (psig)	MISCELLANEOUS	NOTES	NOTES	
					Min.	Recorded						Max.
<u>Cut-off Modulation and Cut-off Leakage</u> (Cont'd)												
									Throttle Torque		19.	19. Observe that throttle torque does not exceed 15 lb.-in. maximum and record.
8.04	2000	500	MIN-MAX-MIN.	Ambient								
									Pl Pressure		17.	20. Set condition lever to -5°. Distance between centres of idle reset lever shaft and maximum idle reset link must be minimum 0.300 inch. Observe and record nozzle flow which must be less than 85 pph.
8.05	2000	500	8-10	Ambient	0		20.0 c.c./min.					
8.06	6487	1450	MAX.	135.0	0		85		Min: 0.300 inch		20.	
				<u>Py</u> (psig)								
<u>Spill Valve Setting</u>												
SEQ	1	3	2	4				5				
9.01	1530	370	28-30	1.0	X		X	32			21.	23. Port may be wet but no measurable leakage permitted.
9.02	1530	370	28-30	1.0	79		83	25			21.	
9.03	2400	550	28-30	9.0	X		X	60			21.	
9.04	2400	550	28-30	9.0	X		X		pph Diff	0	22.	
9.05	Check spill valve Pa port for leakage.							OK		REJ	23.	

[illegible]

Aprovação <i>Approval</i>	Nome <i>Name</i>	Data <i>Date</i>	Assinatura <i>Signature</i>
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