

	REGISTRO RECORD	REVISÃO REVISION 01
CODIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS SERVICE SHEET	PAGINA 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	73-20-13	TLN02402	April 22,2022 Revision 14
		CONJUNTO MAIOR MAIN PART	
		PN	SN

TESTE APLICÁVEL AOS PART NUMBERS TEST APPLICABLE TO PART NUMBERS			
3244738-5	3244738-6	3244738-7	3244738-8

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 pph 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 pph and within ± 25 psi at higher pressures, using Pn back pressure regulator valve.</i>			

	REGISTRO RECORD	REVISÃO REVISION 01
CODIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS SERVICE SHEET	PAGINA PAGE 2/4

ITEM	PROCEDIMENTOS TOLERÂNCIAS	Resultado	Data	Executante
Item	Procedures Serviceable limits	Result	Date	Performed by
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>			
F	Ajuste o parafuso de pressão diferencial P1-P2 para uma pressão de 30-47 in.Hg. Ajuste o orifício da <i>sleeve</i> da <i>metering valve</i> até a pressão diferencial P1-P2 e o fluxo de injeção estarem de acordo com os limites especificados. <i>Adjust P1-P2 pressure differential adjustment screw for a pressure of 30-47 in.Hg. Adjust metering valve sleeve assembly orifice until P1-P2 pressure differential and nozzle flow are within the limits specified.</i>			
G	Torqueie as porcas de 35-40 lb.in e 25-35 lb.in respectivamente. Registre todas as pressões diferenciais de P1-P2 e o fluxo de injeção e adicionalmente, a pressão Pc-Py no Ponto de Teste. <i>Torque nuts to 35-40 lb.in and 25-35 lb.in respectively. Record all P1-P2 differential pressures and nozzle flows and additionally, Pc-Py pressure at Test Point.</i>			

CALIBRAÇÃO E LIMITAÇÕES DO TESTE | CALIBRATION AND TEST LIMITATIONS

Calibration and Test Limitations For Units P/N 3244738-5 through 3244738-8											
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
					Min.	Recorded	Max.				
<u>Relief Valve Opening Check</u>											1. Record relief valve opening pressure.
SEQ.	1	4	2	3							
1.01	0	200/275	MAX	120					1000 1050	1.	2. Record pressurizing valve opening pressure.
<u>Pressurizing Valve Opening Check</u>											3. Set P1-P2 to 30 to 47 inches Hg and record.
SEQ.	1		2	3							
1.02	0	-	MAX	120					55 68	2.	4. Record Pc-Py pressure Max. 3.9 inches Hg.
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting</u>											5. Set maximum metering valve stop.
SEQ.	2	3,6	1	4					5		
*											
2.01	5800	1300	MAX	40.0	240		250		113	3.	
*											
2.02	2900	660	28-30	40.0	90		93		18	3.	
*											
2.03	5800	1300	MAX	90.0	542		562		510	3,4.	
*											
2.04	5800	1300	MAX	120.0	714		758		860		
*											
2.05	5800	1300	MAX	135.0	749		X		860		
*											
2.06	5800	1300	MAX	135.0	703		723		815	5.	

	REGISTRO RECORD	REVISÃO REVISION	01
	CODIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS SERVICE SHEET	PAGINA PAGE

Calibration and Test Limitations For Units P/N 3244738-5 through 3244738-8												
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph)	Min.	Recorded	Max.	P1-P2 (in. Hg.)	Pn (psig)	MISCELLANEOUS	NOTES
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting (Cont'd)</u>												
SEQ.	2	3,6	1	4						5		
*												
2.07	5800	1300	MAX.	40.0	-10			+10		113		6
2.08	1700	400	MAX.	25	149			159		48		
<u>Governor Spring Setting and Speed Reset Adjustment</u>												
										P2 (psig)		
SEQ.	4	3,7	1	2,5						6		
*												
3.01	6360	1420		95	492			504		420		7
*												
3.02	6510	1420		95	X			X		280	pph Diff.Bleed Size	8,9
*												
3.03		1420		95	X			X		420		10
SEQ.	4	2	1	3,6						5		
3.04	6260	1400	88	95	X			X		420		
3.05	6340	1410	88	95	X			X		420	pph diff.	11
3.06	6360	1420	MAX.	95	492			504		420		
3.07	6400	1430	MAX.	95	X			X		420	pph diff.	12

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TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph)	Min.	Recorded	Max.	P1-P2 (in. Hg.)	Pn (psig)	MISCELLANEOUS	NOTES
<u>Idle Speed Stop Setting and Throttle Pick-Up Angle</u>												
SEQ.	4	1,7	5	2,6						3,8		
4.01	3250	740	28-30	30.0	115			125		30		
4.02	3250	740									pph Incr.	13.
<u>Low End Acceleration and Throttle Movement Effect</u>												
SEQ.	2	5	3	1						4,6		
5.01	815	200	40	Ambient	85			X		18		
5.02	1700	400	40	25.0	149			159		48	pph Decr.	14.
<u>Maximum Idle Reset Stop Adjustment</u>												
SEQ.	1	3,5		2						4		
6.01	4380	990		70	262			274		130		15.
<u>Cut-off Modulation and Cut-off Leakage</u>												
SEQ.	2	3,6	1	4						5,7		
7.01	2200	500	20	A.R.	160			170		55	pph Incr.	16,17.
7.02	2200	500	8-10	A.R.	0			0.5 cc/min.			P1 pressure	18.

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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	
<u>Cut-off Modulation and Cut-off Leakage (Cont'd)</u>											
SEQ.	2	3,5	1	4							
7.03	2200	500	-5	A.R.				Pl Pressure	19.	19. Pl pressure to be equal to, or less than, Pl at Test Point 7.02. Record Pl.	
7.04	2200	500		Ambient				Throttle Torque	20.	20. Observe that throttle torque does not exceed 15 lb.-in. maximum and record.	
7.05	2200	500	8-10	Ambient	0		20.0 cc/mm	Pl Pressure	18.	21. Record nozzle flow.	
<u>Spill Valve Setting</u>											
SEQ	1	3	2	4							
8.01	1530	370	28-30	1.0	X		X		21.	22. Record difference in flow from Test Point 8.03.	
8.02	1530	370	28-30	1.0	82		86		21.	23. Port may be wet but no measurable leakage permitted.	
8.03	2400	550	28-30	9.0	X		X		21.		
8.04	2400	550	28-30	9.0	X		X	p/h Diff			
								0	1	21,22.	
8.05	Check spill valve Pa port for leakage.							OK	REJ	23.	

Observações Remarks	

Aprovação Approval	Nome Name	Data Date	Assinatura Signature
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