

	REGISTRO RECORD	REVISÃO REVISION 0
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE 1/3

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	73-20-23	TLN02408	Dec. 01,2021 Revision 06
		CONJUNTO MAIOR MAIN PART	
		PN	SN

Teste Aplicável aos Part Numbers Test Applicable to Part Numbers			
3244746-5	3244746-6	3244746-7	3244746-8

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	Mantenha uma pressão Po de 10 a 30 psig dos limites especificados, usando uma válvula de controle Po. <i>Maintain Po pressure of 10 to 30 psig of specified limits, using Po control valve.</i>			
C	Mantenha uma pressão P2 dentro de ± 10 psi do valor especificado nos injetores abaixo de 300 pph e dentro de ± 25 psi dos fluxos mais altos, usando um regulador de pressão Pn. <i>Maintain the (P2) pressure within ± 10 psi of the value specified at nozzle flows below 300 pph and within ± 25 psi at higher flows, using (Pn) back pressure regulator valve.</i>			
D	Ajuste a pressão diferencial P1-P2 para 26-42 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 26 to 42 in.Hg. Adjust metering valve orifice using metering valve orifice adjustment wrench, until pressure differential and nozzle flow are within specified limits.</i>			
E	Defina os parâmetros conforme ponto de teste e com a cover removida, ajuste a porca até o fluxo de injeção ler de 13-17 pph. <i>Set parameters at test point and with cover removed, adjust nut, until nozzle flow reads 13 to 17 pph.</i>			
F	Defina a pressão de combustível P1 em 1000 psig e observe se há vazamentos durante 2 a 3 minutos. Não é permitido nenhum tipo de vazamento. <i>Set P1 fuel pressure at 1000 psig and observe leakage for 2 to 3 minutes. No leakage permitted.</i>			

	REGISTRO RECORD	REVISÃO REVISION	0
	CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE

CALIBRAÇÃO E LIMITAÇÃO DOS TESTES | CALIBRATION AND TEST LIMITATIONS

Calibration and Test Limitations (Units 3244746-5 thru 3244746-8)											
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	TEMP. °F	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph)		P1-P2 (in. Hg.)	MISCELLANEOUS	NOTES	NOTES
						Min.	Recorded	Max.			
<u>Relief Valve Opening Check</u>											
SEQ.	1	5	2	3	4						
1.01	0	200/275	MAX.	105	85.0				P1-Po (psi) 950 1000	1.	1. Record relief valve opening pressure.
<u>Pressurizing Valve Opening Check</u>											
SEQ.	1	5	2	3	4						
1.02	0	100	MAX.	105	85.0				P1-Po (psi) 55 68	2.	2. Record pressurizing valve opening pressure.
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting</u>											
SEQ.	3	4,6	1	2	5						
* 2.01	5800	1350	MAX.	105	40.0	194		202	P2 (psig) 170 190	3.	3. Set P1-P2 between 26 and 42 inches Hg and record.
* 2.02	2900	720	30-32	105	40.0	78		82		3.	4. Record Pc-Px pressure (max. 1.0 inch Hg).
* 2.03	5800	1350	MAX.	105	70.0	348		355	P2 (psig) 555 605	3,4.	5. Set max. metering valve adjustment screw.
* 2.04	5800	1350	MAX.	105	95.0	320		330		3,5,7	6. Hysteresis from Test Point 2.01.
2.05	5800	1350	MAX.	105	40.0	-10		+10		3,6.	7. For units P/N 3244746-8 the NOZZLE FLOW (pph) calibration limits are 345 pph minimum and 355 pph maximum.

Calibration and Test Limitations for Units P/N 3244746-5 thru 3244746-8											
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	TEMP. °F	Pc Air SUPPLY (psia)	NOZZLE FLOW (pph)		P1-P2 (In. Hg)	MISCELLANEOUS	NOTES	N O T E S
						Min.	Rec.	Max.			
<u>Speed Bias Spring Setting</u>											
SEQ.	3,7	4,6	1	2	5						
3.01	5800	1350	MAX.	-50	55.0	X		X			7. Record Pc-Px differential.
3.02	5100	1170	MAX.	-50	55.0	-13		-17			8. Record Px-Py differential.
SEQ.	3	4,6	1	2	5						9. Set governor break throttle angle at 89° to 91° [gap between throttle stop (480, IPL Fig. 1) and unmachined surface of throttle lever (430) must be 0.50" minimum, Ref. ASSEMBLY, Fig. 510]].
3.03	5800	1350	MAX.	-50	40.0	190		200			10. Record nozzle flow difference (92 to 110 pph) from TP. 4.01.
3.04	4000	1000	MAX.	-50	40.0	164		175	Pc-Px (In.Hg) 8.5 11.5	7.	11. Record Py air flow jet (100, IPL Fig. 1) size finally installed (size 58 to 66).
3.05	4000	1000	MAX.	105	40.0	183		195	Px-Py (In.Hg) 0 1.0	7,8.	12. Observe that speed is not more than -50 rpm of that at TP. 4.01 and record.
3.06	4000	1000	MAX	59	40.0	179		189		7.	13. Increase throttle angle until an increase of 4 pph maximum from that at TP. 5.01 is obtained. Record throttle angle and observe that throttle cam pick-up differential is within limits of 52° to 56° of TP. 4.01.
<u>Governor Spring Setting</u>											
SEQ.	5	4,7	1	2	3,6						
* 4.01	6350	1440		59	75.0	295		305			9.
4.02	6500	1530		59	75.0	X		X	pph diff.	Bleed Size	10,11.
4.03		1440		59	75.0	X		X			12.
<u>Idle Speed Stop Setting and Throttle Pick-up Angle</u>											
SEQ.	4	1,7	5	2	3,6				Pn (psig)		
5.01	3200	800	30-32	59	30.0	104		112	95 105		
5.02	3200	800		59	30.0	X		X	95 105		13.

	REGISTRO RECORD	REVISÃO REVISION	0
	CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE

Calibration and Test Limitations for Units P/N 3244746-5 thru 3244746-8												
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THRO-TTLE ANGLE (deg.)	TEMP. °F	Pc Air SUPPLY (psia)	NOZZLE FLOW (pph)			P1-P2 (In. Hg)	MISCELLANEOUS	NOTES	N O T E S
						Min.	Rec.	Max.				
<u>Low End Acceleration and Throttle Movement Effect</u>												
SEQ.	3	5	4	2	1				Pn (psig)			
6.01	815	200	40	59	Ambient	60		X	75		X	
6.02	2100	670	40	59	25.0	108		118	100		110	
										pph Dec.		14.
<u>Maximum Idle Reset Stop Adjustment</u>												
SEQ.	1	4,6	5	2	3,7							
7.01	5000	1170		59	55.0	188		197	-		-	15.
<u>Manual Override</u>												
SEQ.	1	5	2	3	4					Angular Travel	Shims (inch)	
8.01	5000	1170	32	59	Ambient	295		305	-	72°	82°	0
											0.080	16.
<u>Cut-off Modulation and Cut-off Leakage</u>												
SEQ.	3	4,6	1	5					P1-P2 (In.Hg)		pph Incr.	
9.01	2000	500	20	105	AR	160		170				17,18.
9.02	2000	500	8-10	105	AR	0		0.5 cc/min.	-	Cut-off Angle	P1 pressure	19.
9.03	2000	500	-5	105	AR				-		P1 Pressure	20.
9.04	2000	0	0-MAX-0	105	Ambient				-		Throttle Torque	21.

Observações Remarks			
Aprovação Approval	Nome Name	Data Date	Assinatura Signature