

	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	P/N	S/N
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	73-20-11	TLN02407	January 14 th , 2019 Temporary Revision 73-45
		CONJUNTO MAIOR MAIN PART	
		P/N	S/N

Teste Aplicável aos Part Numbers Test Applicable to Part Numbers					
3244735-9	3244735-10	3244735-11	3244735-12	3244735-13	3244735-14
3244737-9	3244737-10	3244737-11	3244737-12	3244737-13	

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 psi dos limites especificados, usando uma válvula de controle Po. <i>Maintain Po pressure to within ± 10 psi of specified limits, using Po control valve.</i>			
C	Defina a pressão Pn em 400 pph usando uma válvula de controle Pn certificando-se de que o fluxo de 400 pph está indicado no medidor de fluxo. Não altere as configurações da válvula de controle Pn durante todo o teste. <i>Set Pn pressure at 400 pph using Pn control valve ensuring that flow of 400 pph is indicated on flowmeter. Do not change setting of Pn control valve during the entire test.</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 15-21 pph. <i>Set parameters at test point and with cover removed, adjust nut, until nozzle flow reads 15 to 21 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>			

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CALIBRAÇÃO E LIMITAÇÃO DOS TESTES | CALIBRATION AND TEST LIMITATIONS

Calibration and Test Limitations (Units P/N 3244735-9 and upward and 3244737-9 and upward).											
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.		Po (psig)	MISCELLANEOUS RECORDINGS	NOTES	NOTES	
Metering Valve Orifice and Bypass Valve Differential Pressure Setting											
SEQ.	2	3,6	1	4			5				
* 1.01	5800	1350	MAX.	40.0	240		250	200	P1-P2 Pn	1,2,3.	1. Set P1-P2 pressure differential to 26 to 42 inches Hg.
* 1.02	2900	720	30-32	40.0	76		79	75	P1-P2 Pn	2,3.	2. Record P1-P2 pressure differential.
* 1.03	5800	1350	MAX.	85.0	510		532	110	P1-P2 Pn Pc-Py	1,2, 3,4.	3. Record Pn pressure.
* 1.04	5800	1350	MAX.	120.0	645		655(a)	90	P1-P2	2.	4. Record Pc-Py pressure differential; 8.0 inches Hg. maximum.
					626		636(b)				5. Record difference in nozzle flow from Test Point 1.01.
1.05	58000	1350	MAX.	40.0	-10		+10	200	P1-P2	2,5.	6. Record the speed.
(TEST POINT 2. - SPEED BIAS SPRING 'SETTING' - NOT APPLICABLE)											
Governor Spring Setting											
SEQ.	4	3,7	1	2,6			5				
* 3.01	6520	1460	90	100.0	540		550	140	-	-	8. Observe that speed is less than that at Test Point 3.02 by not more than 50 rpm. Record speed and difference.
3.02		1460	90	100.0			525	150	-	6.	
3.03		1580	90	100.0	355		385	215	Jet Size 60 65	6,7.	
3.04		1460	90	100.0			525	150	Speed diff. -50 0	6,8.	
(a) For Units P/N 3244735-9 and 3244737-9 and upward.											
(b) For Units P/N 3244735-10 and upward.											

Calibration and Test Limitations (Units P/N 3244735-9 and upward, 3244737-9 and upward)											
TEST POINT	SPEED (rpm)	FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.		Po (psig)	MISCELLANEOUS RECORDINGS	NOTES	NOTES	
Idle Speed Stop Setting and Flight Idle Throttle Angle											
SEQ.	3	1,7	4	2,5			6				
* 4.01	3300	800	28-30	30.0	112		121	85	-	-	9. Throttle angle to be between 37 and 41 degrees. Record angle.
SEQ.	2	1		3			5	4			
4.02	4000	1000		30.0			102	125	-	9.	10. Move throttle lever to 30 degrees position. Observe and record that maximum nozzle flow decrease is not more than 5 pph.
Low End of Acceleration and Throttle Movement Effect											
SEQ.	2	4	3	1			5				
5.01	815	200	40	Ambient Pressure	60		X	30			11. Adjust Pr-Pa 35 to 37 inches Hg. Record.
5.02	2100	670	40	25.0	145		161 (a)	40	pph dec.	10.	12. Difference from Test Point 6.01 is not more than 2.7 inches Hg. maximum. Record.
					139		155 (b)				
Governor Reset Check											
6.01	Zero	Zero	MAX.	85.0			-	-	Pr-Pa	11.	13. Set speed in excess of 6500 rpm and record.
6.02	Zero	Zero	MAX.	40.0			-	-	Pr-Pa diff.	12.	14. Pg-Ps to be 2.5 to 3.4 inches Hg. Record.
SEQ.	5	3	1	2			4				
6.03		1490	MAX.	100.0			505	170	-	13.	15. Pg-Pa difference from Test Point 6.04 to be between 0.8 and 1.2 inches Hg. Record.
6.04		1490	MAX.	100.0			481	180	Pg-Ps	13,14.	
6.05		1490	MAX.	100.0			369	220	Pg-Ps	13,15.	16. Pg-Pa to be between 12.2 and 14.4 inches Hg. Record.
6.06	4000	900	MAX.	35.0	114		128	120	Pg-Pa	16.	
(a) For Units P/N 3244735-9 and 3244737-10 and upward.											
(b) For Units P/N 3244735-10 and upward.											

Observações Remarks			
Aprovação Approval	Nome Name	Data Date	Assinatura Signature

