

	REGISTRO RECORD	REVISÃO REVISION 0
CODIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PAGINA 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	49-31-02	TLN02335	Feb 15,1988 Revision 21
CONJUNTO MAIOR MAIN PART			
		PN	SN

TESTE APLICÁVEL AOS PART NUMBERS TEST APPLICABLE TO PART NUMBERS			
2524994-4	2524994-6	2524994-7	2524994-8
2524994-9	2524994-10	2524994-11	3244761-2
3244761-3	3244761-5	3244761-6	

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 FCU na bancada de teste, usando o adaptador estriado e o adaptador de montagem. <i>Assemble the fuel control unit to the test stand, using the spline adapter and mounting adapter.</i>			
B	Mantenha uma pressão Po de 10-30 psig na conexão de Po, usando uma valvula de controle de pressão de retorno. Mantenha a pressão P2 dentro do valor especificado. <i>Maintain a Po pressure of 10 - 30 psig on Po pressure gage, except where otherwise specified. P2 pressures must meet the limits specified.</i>			
C	Defina o fluxo de injeção de 114 ± 1 pph para FCU P/N 2524994-6 até -9 e de 117,5 ± 1 pph para FCU P/N 2524994-10 e subsequente e todos 3244761. <i>Set nozzle flow at 114 + 1 pph for Units P/N 2524994-6 thru -9; and at 117.5 + 1 pph for Units P/N 2524994-10 and up and all 3244761.</i>			
D	Registre todas as pressões diferenciais de P1-P2, fluxo de injeção e pressão P2 e adicionalmente, a pressão Pc-Py após ponto de teste. <i>Record P1-P2 pressures, nozzle flows and P2 pressure, and additionally Pc-Py pressure after Test Point.</i>			
E	Aplique uma pressão P1 de 1000 psig na entrada de combustível e observe se há presença de vazamento durante 2 a 3 minutos. Não é permitido vazamento. <i>Set P1 fuel inlet pressure to 1000 psig and observe the unit for leakage for 2 to 3 minutes. No leakage permissible.</i>			

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CALIBRAÇÃO E LIMITAÇÃO DOS TESTES | CALIBRATION AND TEST LIMITATIONS

Table 701 (Sheet 1 of 2) Calibration and Test Limitations (Units P/N 2524994-6 and up and all 3244761)									
TEST POINT	(a) FUEL SUPPLY (rpm)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.	P1-P2 (In. Hg)	MISCELLANEOUS	NOTES	N O T E S	
<u>Relief Valve Opening Check</u>									
SEQ.	1	4	2	3		P1-Po (psig)			
1.01	AR	200/275	MAX.	Ambient	-	-	950 1000	1.	1. Relief valve opening (P1-Po) 950 to 1000 psig.
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting</u>									
SEQ.	2	3,5	1	4		P2			
2.01	6000	1350	MAX.	20.0	(b)			2,3.	2. Adjust (P1-P2) to between 26 and 38 In. Hg for units P/N 2524994 and 3244761-2 to -5, and between 26 and 40 In. Hg for units P/N 3244761-6 and up; and record.
2.02	2900	720	MAX.	40.0	(c)		Pc-Py Px-Py	2.	3. Record P2 pressure.
2.03	6000	1350	MAX.	85.0	(d)			2,4,5.	4. For Unit P/N 2524994 and 3244761-2 thru -5, record (Pc-Py) pressure after adjustment (6.5 In. Hg max.).
2.04	6000	1350	MAX.	120.0	(e)			2.	5. For Units P/N 3244761-6 and up, record (Px-Py) pressure after adjustment (1.0 In. Hg max.).
2.05	6000	1350	MAX.	20.0	-10 +10			2,6.	6. Hysteresis from Test Point 2.01.
(a) Column 'FUEL SUPPLY' is not applicable for Method 2 testing. (b) 112 116 For Units P/N 2524994-6 thru -9. (d) 498 510 For Units P/N 2524994-6 thru -9. 115 120 For Units P/N 2524994-10 and up, and all 3244761. 493 510 For Units P/N 2524994-10 and up, and all 3244761. (c) 79 83 For Units P/N 2524994-6 thru -9. (e) 545 555 For all Units P/N 2524994. 85 90 For Units P/N 2524994-10 and up. 570 580 For all Units P/N 3244761. 90 95 For all Units P/N 3244761.									

TEST POINT	(a) FUEL SUPPLY (rpm)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.	P1-P2 (In. Hg)	MISCELLANEOUS	NOTES	N O T E S	
<u>Maximum Governor Spring Setting</u>									
SEQ.	4	3,6	1	2,5					
3.01	6500	1440	MAX.	100.0	485 499				7. Difference from Test Point 3.01 (Governor Slope).
3.02	6650	1530	MAX.	100.0	-135 -165	Py Jet Size 58D 68D	7,8.		8. Record Py jet size (10, IPL Fig. 2) selected.
3.03		1449	MAX.	100.0	X X	RPM Diff.	9.		9. Observe that speed is not more than -50 rpm of that at TP. 3.01, and record.
<u>Low End Acceleration Curve</u>									
SEQ.	3	4	1	2		P2 75 X			10. Set P2 to 75 psig minimum.
4.01	815	200	MAX.	Ambient	80 X				(a) Column 'FUEL SUPPLY' is not applicable for Method 2 testing.
4.02	2100	670	MAX.	20.0	112 120				
4.03	3000	750	MAX.	25.0	142 150				
4.04	3500	900	MAX.	30.0	171 180				
4.05	4500	1250	MAX.	40.0	226 238				

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CALIBRAÇÃO E TESTE – LIMITES DE SERVIÇO CALIBRATION AND TEST – SERVICE LIMITS
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Table 1301 (Sheet 1 of 2) Calibration and Test - Service Limits (Units P/N 2524994-6 and up and all 3244761)									
TEST POINT	SPEED (rpm)	(a) FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.	P1-P2 (In. Hg)	MISCELLANEOUS	NOTES	NOTES
<u>Relief Valve Opening Check</u>									
SEQ.	1	4	2	3			P1-Po (psig)		
1.01	AR	200/275	MAX.	Ambient	-	-	950 1000	1.	1. Relief valve opening (P1-Po) 950 to 1000 psig.
<u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting</u>									
SEQ.	2	3,5	1	4			P2		
* 2.01	6000	1350	MAX.	20.0	(b)			2,3.	2. Adjust (P1-P2) to between 26 and 38 In. Hg for units P/N 2524994 and 3244761-2 to -5, and between 26 and 40 In. Hg for units P/N 3244761-6 and up; and record.
* 2.02	2900	720	MAX.	40.0	(c)		Pc-Py Px-Py	2,3.	3. Remove Py line.
* 2.03	6000	1350	MAX.	85.0	(d)			2,5,6.	4. Record P2 pressure.
* 2.04	6000	1350	MAX.	120.0	(e)			2.	5. For Unit P/N 2524994 and 3244761-2 thru -5, record (Pc-Py) pressure after adjustment (6.5 In. Hg max.).
2.05	6000	1350	MAX.	20.0	-10 +10			2,7.	6. For Units P/N 3244761-6 and up, record (Px-Py) pressure after adjustment (1.0 In. Hg max.).
									7. Hysteresis from Test Point 2.01.
(a) Column 'FUEL SUPPLY' is not applicable for Method 2 testing.									
(b) 111 118 For Units P/N 2524994-6 thru -9. 114 121 For Units P/N 2524994-10 and up, and all 3244761.									
(c) 79 83 For Units P/N 2524994-6 thru -9. 85 90 For Units P/N 2524994-10 and up. 90 95 For all Units P/N 3244761.									
(d) 489 519 For Units P/N 2524994-6 thru -9. 484 519 For Units P/N 2524994-10 and up, and all 3244761.									
(e) 540 560 For all Units P/N 2524994. 565 585 For all Units P/N 3244761.									

Table 1301 (Sheet 2 of 2) Calibration and Test - Service Limits (Units P/N 2524994-6 and up and all 3244761)									
TEST POINT	SPEED (rpm)	(a) FUEL SUPPLY (pph)	THROTTLE ANGLE (deg.)	Pc AIR SUPPLY (psia)	NOZZLE FLOW (pph) Min. Recorded Max.	P1-P2 (In. Hg)	MISCELLANEOUS	NOTES	NOTES
<u>Maximum Governor Spring Setting</u>									
SEQ.	4	3,6	1	2,5					
* 3.01	6500	1440	MAX.	100.0	478 506			8.	8. Reset maximum stop screw (8, IPL Fig. 3) adjustment 0.300 + 0.015 inch as per Fig. 508 (Ref. ASSEMBLY) if adjustment is required.
3.02	6650	1530	MAX.	100.0	-130 -170		Py Jet Size 58D 68D	9,10.	9. Difference from Test Point 3.01 (Governor Slope).
3.03		1449	MAX.	100.0	X X		RPM Diff. 	11.	10. Record Py jet size (10, IPL Fig. 2) selected.
<u>Low End Acceleration Curve</u>									
SEQ.	3	4	1	2			P2		
4.01	815	200	MAX.	Ambient	80 X		75 X	12.	11. Observe that speed is not more than -50 rpm of that at TP. 3.01, and record.
4.02	2100	670	MAX.	20.0	110 123				12. Set P2 to 75 psig minimum.
4.03	3000	750	MAX.	25.0	140 152				
4.04	3500	900	MAX.	30.0	168 182				
4.05	4500	1250	MAX.	40.0	223 241				
									(a) Column 'FUEL SUPPLY' is not applicable for Method 2 testing.

Observações Remarks			
Aprovação Approval	Nome Name	Data Date	Assinatura Signature
FS.1140			