

	REGISTRO RECORD	REVISÃO REVISION 01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE 1/16

COMPONENTE Component	O.S W.O	MODELO Model	P/N	S/N
FUEL CONTROL UNIT		DP-F2 Main Fuel Control Unit		

IDENTIFICAÇÃO IDENTIFICATION			
TÍTULO FICHA PARA REGISTROS DE TESTE DA FUEL CONTROL UNIT TITLE FUEL CONTROL UNIT TEST SHEET			
PUBLICAÇÃO PUBLICATION	REFERÊNCIA REFERENCE	TLN	DATA DATE
OVERHAUL MANUAL WITH ILLUSTRATED PARTS LIST 3244799	73-20-35	TLN02385	September 20th, 2018 Temporary Revision 73-31
CONJUNTO MAIOR MAIN PART			
		P/N	S/N

TESTE APLICÁVEL AOS PART NUMBERS TEST APPLICABLE TO PART NUMBERS	
4138010-1	4138010-2

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 dispositivo de configuração da válvula. Remova o plug e instale um adaptador padrão nas portas. <i>Remove plug from port and assemble valve setting 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.</i> <i>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>			
E	Ajuste o parafuso de pressão diferencial P1-P2 para uma pressão de 30 – 48 in.Hg. Ajuste o orifício da sleeve da metering valve 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 - 48 in.Hg. Adjust metering valve sleeve assembly orifice until P1-P2 pressure differential and nozzle flow are within the limits specified.</i>			

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		TEST SPECIFICATION				AETS 71445				
						SHEET 2 of 8		SHEETS 8		REV. E
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P2 psig
						MIN	REC	MAX		
1.	Metering valve orifice torque					35		40 in. lb.		
2.	By-pass setting torque					25		35 in. lb.		
3.	Min. M/V stop (breakaway) torque					4		20 in. lb.		
4.	Max. flow M/V stop torque					20		25 in. lb.		
5.	Max. gov. eccentric locknut torque					7		7.5 in. lb.		
6.	Max. throttle stop torque					20		25 in. lb.		
7.	Idle speed stop torque					20		25 in. lb.		
8.	Flow body to drive body torque					20		25 in. lb.		
9.	Drive body adapter to drive body torque – in 2 in. lb. inc.					8		10 in. lb.		
10.	Bleeds torque					9		11 in. lb.		
11.	Manual Override stop nut torque					20		25 in. lb.		
H.	Speed for test points indicated (#) is to be set to within ± 2 RPM of specified value. All other points are to be set within ± 20 RPM of specified value.									
I.	Total supply is to be set to ± 20 PPH of the specified value or within limits when shown. When aircraft pump is used, ignore specified values of total supply and Po pressure settings. Except at T.P. 1.02 and 9.02 adjust boost pressure to obtain specified Po values.									
J.	Close shutoff valve to Pn gauge.									
K.	Before calibration, check for external air leakage using M73/9 "Lec-Tec". Slow bubbling is permitted at the joint of drive body and flow body, at the joint of drive body and drive body air adapter, at the torsion shaft cover and at the bellows and torsion shaft locknuts. No leakage is permitted at any other point.									
	Pc = 100 PSIA. If leakage is considered excessive, measure Px-Py with Pc = 100 PSIA, RPM = 0, and T/A = MAX. Px to be measured at the bellows ratio lever cover.									
	Px – Py = +1.2 In. Hg. maximum									
L.	Maintain manual override fully C.C.W. except where otherwise indicated.									

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		TEST SPECIFICATION				AETS 71445				
						SHEET 3	SHEETS of 8	REV. E		
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P2 psig
						MIN	REC	MAX		
<u>CHECK RELIEF VALVE OPENING</u>										
(a) Cap outlet port. (b) Increase fuel flow until supply is within limits specified and observe P1-Po differential. (c) If P1-Po differential is out of limits, shim as required. Add shims to increase differential. (d) If valve has been re-shimmed, torque plug to 15-20 in. lb. and locknut to 70-80 in. lb.										
1.01	1 A.R.	4 200-275	2 MAX		3 120					
Relief valve opening P1-Po						1000		1050 psi		
<u>CHECK PRESSURIZING VALVE OPENING</u>										
(a) Increase supply pressure with outlet port open, observe start of nozzle flow. During this test adjust and maintain Po at 40 ± 2 psig. (b) If P1-Po is out of limits, shim as required. Add shims to increase differential. (c) If valve cover has been removed and re-assembled, torque screws to 4.5 – 5.0 in. lb. in 1 in. lb. increments maximum while alternating between screws.										
1.02	1 A.R.	4 A.R.	2 MAX		3 120					
Pressurizing valve opening P1-Po						55		68 psi		
<u>METERING VALVE ORIFICE AND BY-PASS HEAD (P1-P2) SETTING</u>										
(a) Test points 2.01 through 2.03 are interrelated and should be recorded after all three (3) adjustments have been made. At test points 2.01, 2.02, and 2.06 open shut-off valve to Pn gauge. Close valve after test. (b) If at T.P. 2.03, P1-P2 is higher than 41 in. Hg, remove by-pass valve cover and replace existing spacer P/N 3240905 with thicker spacer P/N 3240905-1. If P1-P2 is lower than 33 in. Hg, remove and discard existing spacer. (c) Re-torque the by-pass valve retaining screws to 20 in-lb. in increments of 5 in-lb. and recalibrate T.P. 2.01 to 2.03.										

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TEST POINT		SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P2 psig
							MIN	REC	MAX		
							AETS 71445				
TEST SPECIFICATION						SHEET 4 of 8		SHEETS 8		REV. E	
* 2.01		2 6200	3-6 1400	1 MAX	-	4 40.0	243		253		5-7 Pn = 210 psig
Adjust head and orifice, P1-P2 = 30-48 in. Hg.											
* 2.02		2900	660	28-30	-	40.0	90		93		Pn = 75 psig
Set minimum M/V stop after removing Py line. Open back pressure valve.											
* 2.03		6200	1400	MAX	-	90.0	547		569		760
Retrim head and re-adjust 2.01-2.02 if out of limits.											
Px - Py 1.20 in. Hg. Max.											
If out of limits, adjust T.P. 4.01 and continue calibration from T.P. 2.01											
As per note (b), check appropriate box.											
Original spacer											
Spacer removed											
Spacer replaced											
* 2.04		6200	1400	MAX	-	120.0	729		759		950
* 2.05		6200	1400	MAX	-	135.0	735		765		950
Set maximum M.V. flow stop.											
2.06		6200	1400	MAX	-	40.0	-10		+10		Pn = 210 psig
Hysteresis of T.P. 2.01.											
ENRICHMENT SPRING SETTING											
3.01		2 6200	3-6 1400	1 MAX	-	4 90.0	X		X		5-7 760
Record nozzle flow											
3.02#		5950	1320	MAX	-	90.0	-11		-17		730
Set speed enrichment 11 to 17 PPH less than 3.01. Increasing spring tension (CW on adj. nut) increases difference. To verify setting approach enrichment speed from 5450 RPM.											

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TEST POINT		SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P2 psig
							MIN	REC	MAX		
							TEST SPECIFICATION				
		AETS 71445									
		SHEET 5 of 8 SHEETS REV. E									
3.03		4000	900	MAX	-	70.0	391		407		480
							Px bleed size		49		55
If not in limits, select Px bleed per parts list. (Higher No. bleed reduces flow). If bleed has been changed, re-check test points 2.01 to 2.06, and 3.01 to 3.03.											
MAX. GOVERNOR SPRING SETTING											
(a) At T.P. 4.01 adjust eccentric shaft to meet flow limits. (b) If unable to set with eccentric, maximum T.A. may be varied within T.A. limits. (c) If unable to set with eccentric or max. T.A. maintain eccentric on scribe line and determine amount of RPM off. Split control and adjust gov. spring as required. (CW adj. Of gov. spring delays break approximately 1 flat on adj. nut per 50 RPM). (d) At T.P. 4.02 adjust speed until nozzle flow is as shown. Approach from low speed. (e) At T.P. 4.03 adjust speed 150 RPM greater than recorded at T.P. 4.02. If gov. slope is not in limits select Py bleed P/N 2525107. (Higher number bleed to decrease flow). Bleed Size 58 62 6 (f) At T.P. 4.04 decrease speed from 4.03 until nozzle flow of T.P. 4.02 is reached. Record speed. Speed to be less than that recorded at T.P. 4.02 by 50 RPM max.											
*#	4	3-7	1			2-5					6
4.01	6487	1550			-	95.0	492		504		650
Set governor break T.A. at 92.5° - 94.5°. Setting limit to be used only after T.P. 4.01 has been set.											
4.01a	6487	1550	"		-	95.0	485		510		650
Checking limits to be used for all checks.											
4.02		1550	"		-	95.0		481			615
*#											
4.03		1550	"		-	95.0	326		356		370
4.04		1550	"		-	95.0		481			615
0 50 RPM Max. hysteresis of T.P. 4.02											
4.05	6487	1550	30°-35°		-	95.0	X		235		Pn = 170 psig
If minimum schedule cannot be met, select larger Py bleed and re-check T.P. 4.01 to 4.05.											

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TEST POINT		SPEED RPM		SUPPLY PPH		THRO DEG.		TEMP °F		Pc psia		AETS 71445			P1-P2 "Hg		P2 psig	
												TEST SPECIFICATION						
												SHEET 6	SHEETS of 8	REV. E				
												NOZZLE FLOW, PPH						
												MIN	REC	MAX				
<u>IDLE SPEED STOP SETTING AND PICK-UP ANGLE</u>																		
(a) At T.P. 5.01 insert 0.1875 dia. Rigging pin and check T.A. If out of limits, re-adjust rigging bracket position. At T.P. 5.02 increase T.A. until 4 pph max. fuel flow from 5.01 is observed. (T.A. where flow starts to increase is pick-up angle).																		
(b) If throttle cam pick-up angle is out of limits, replace governor spring. 1) Use a higher numbered spring to increase pick-up angle. 2) Use a lower numbered spring to decrease pick-up angle. 3) Adjust spring tension to same load as set on spring removed. 4) Re-set governor break at T.P. 4.01 and re-run T.P.s 4.02 to 4.04. 5) Re-set idle stop at T.P. 5.01.																		
*	4	1-7	5		2-6											3-8		
5.01	3560	810	28-30	-	34.0	135		145								Pn = 107 psig		
Open shut-off valve to Pn gauge. Set idle stop screw (CW adj. to increase flow). Decrease and re-set speed after adjustment.																		
5.02	3560	810					Idle throttle angle	35°								39°		
Remove rigging pin Spring strip																		
<u>LOW END OF ACCELERATION FLOW AND THROTTLE MOVEMENT EFFECT</u>																		
(a) After recording nozzle flow at test point 6.02 move throttle to 30° T.A. Close shut-off valve to Pn gauge.																		
(b) Observe nozzle flow change and record.																		
6.01	2	5	3		1											4-6		
	815	200	40	-	Local	85		X								Pn = 35 psig		
6.02	1700	400	40	-	25.0	138		148								Pn = 107 psig		
Move T.A. to 30° 5 PPH maximum decrease																		
<u>MAX. IDLE RESET STOP ADJ.</u>																		
#	1	3-5			2											4		
7.01	4380	990	-	-	70.0	262		274								Pn = 240 psig		
Set Max. idle reset stop. Record T.A.																		

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TEST POINT		SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P2 psig
							MIN	REC	MAX		
						TEST SPECIFICATION			AETS 71445		
						SHEET 7 of SHEETS 8			REV. E		
<u>MANUAL OVERRIDE</u> At test point 8.01 set max. manual override flow. Rotate override lever C.W. and maintain in contact with max. flow adjusting screw. Rotate adjusting screw C.C.W. to increase flow.											
*	2	5	3			1					4
8.01	5760	1350	30	-		Local	415		435		480
8.02	Rotate manual override lever.					Angular travel	84°		94°		
	Torque manual override stop nut 20-25 in. lb.										
<u>CUT-OFF MODULATION AND CUT-OFF LEAKAGE</u>											
A) At T.P. 9.01, set test condition with 20° T.A. (a) Move throttle to 30° T.A. and observe nozzle flow change. (b) If nozzle flow change is excessive – 1) Re-set throttle to 20° T.A. 2) Back off override adj. nut on cut-off link. 3) Adjust cut-off link longer to meet max. flow change limits. 4) Open shut-off valve to Pn gauge. Close valve after test.											
9.01	2 2000	3-6 500	1 20	-		4 A.R.	160		170		5-7 PN = 150 psig
							Nozzle flow change 2 PPH max.				
B) At T.P. 9.02, check cut-off leakage. (a) Remove nozzle outlet line from control. (b) Set total supply with throttle in cut-off position. (Highest T.A. position where no leakage is observed at outlet fitting). (c) Increase T.A. to permit flow out the outlet fitting, and adjust Po pressure to 40 ± 2 psig. (d) Decrease T.A. as required until no leakage is observed at outlet fitting (Observe T.A.). (e) If T.A. is out of limits, shim-cut-off valve seat. (1) Remove shims under C.O. valve seat to increase T.A. (.002" thickness shim changes T.A. approximately 2°). (f) Same Pc as established for T.P. 9.01. (g) Record cut-off leakage. (h) Record P1.											
9.02	2000	500	8-10	-		A.R.	0		0.5		
							cc/min.				
							P1 pressure 250 psig max.				

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						SHEET 8	SHEETS of 8			
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psig
						MIN	REC	MAX		
C) At T.P. 9.03 (-5° T.A.) (a) Observe P1 pressure. (b) Adjust override nut for 0.000" clearance between nut and bushing. (c) Adjust upper lever (idle reset lever) stop to just contact lever. (d) At 0° T.A. lower C.O. lever to be within ± 5° of horizontal.										
9.03	2 2000	3-5 500	1 -5	-	4 A.R.	P1 Psig				
At test point 9.04 (a) Operate throttle lever over full range of travel. (b) Record throttle torque.										
9.04	2000	500	Min-Max-Min.		Local	Throttle torque 15 in.-lb. max.				
9.05	6487	1450	Max.	-		135				
Reconnect nozzle outlet. Set condition lever to -5°, distance between centers of idle reset lever shaft and max. idle reset link must be 0.30 Min. X Nozzle flow less than 85 PPH										
O.K. Reject										
<u>SPECIFIC GRAVITY ADJUSTMENT RECORD</u>										
10.01	At the specific gravity index line measure the gap between the by-pass valve retaining plate and the specific gravity adjustment dome.									
GAP Inch.										
<u>EXTERNAL LEAKAGE CHECK</u>										
A) Cap Po at drive flange by-pass tap. B) Remove Po line to control and install Po plug. C) Cap outlet port. D) Set P1 pressure to 1000 psig. E) Observe leakage for 2-3 minutes. F) No leakage permitted.										
10.02	OK Reject									
10.03	Record shipping weight X 5.4 lbs. max.									
Checked by:										
Inspected by:										

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TEST SPECIFICATION		Number AETS 71446	Rev. D
		Sheet 1 of 6	
Orig By: W.H.Foster	Chk By: R. Bergeron	Project Leader: W.H.Foster	MFG Approval: <i>M. BALOGSI</i>
Date:	Test Stand No.:	Operator:	S/N:
Unit: Automatic Fuel Control		Model: DP-F2	P/N: 4138014
REL DATE REV 12 MAR 83 A 9 JUN 83 B 12 JUN 84 C 12 APR 84 D	SHT REV SHT REV 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		

AUDIT SPECIFICATION

- A. See AEEI-48523 for location of adjustments and pressure taps.
- B. (1) Install throttle quadrant fixture with a 4.0 lb. load applied to throttle lever to hold lever against maximum throttle stop.
(2) Index throttle quadrant to 93.5° T.A. Torque throttle quadrant fixture to 40-45 in-lb.
- C. Control rotation CW as viewed from control shaft end.
- D. Maintain Po pressure of 30 to 50 psig at control by-pass tap, except where otherwise specified.
- E. P2 shall be set within +/- 10 psi of specified value at pressures below 200 psig and +/- 25 psi of specified value at pressures above 200 psig.
- F. Set test conditions (Speed, Supply, Pc, etc.) in the sequence indicated by numbers 1, 2, 3, etc.
(a) When two numbers are listed, set and then trim test condition in the sequence indicated.
(b) Approach all speeds, total fuel supplies, and Pc settings from a lower value, except at hysteresis points.
- G. Speed for test points indicated by (#) is to be set to +/- 2 RPM of specified value. All other points are to be set within +/- 20 RPM of specified value.
- H. Total supply is to be set to +/- 20 PPH of the specified value or within limits when shown. When aircraft pump is used, ignore specified values of total supply and Po pressure settings. Except at T.P. 1.02 and 9.02 adjust boost pressure to obtain specified Po values.
- I. Close shutoff valve to Pn gauge.
- J. Maintain manual override fully C.C.W. except where otherwise indicated.

CURRENT DESIGN ACTIVITY
 CAGE CODE 06848
 HONEYWELL INTERNATIONAL INC.
 ENGINE SYSTEMS & ACCESSORIES
 SOUTH BEND, IN USA

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												NOZZLE FLOW, PPH			P1 - P2								P2	
												MIN	REC	MAX	"Hg								psig	
<u>CHECK RELIEF VALVE OPENING</u>																								
(a) Cap outlet port. (b) Increase fuel flow until supply is within limits specified and observe P1-Po differential.																								
1.01	1	4	2	3																				
	A.R.	200-275	MAX	120																				
					Relief valve opening P1 - Po 1000 1050 psi																			
<u>CHECK PRESSURIZING VALVE OPENING</u>																								
(a) Increase supply pressure with outlet port open, observe start of nozzle flow. During this test adjust and maintain Po at 40 +/- 2 psig.																								
1.02	1	4	2	3																				
	A.R.	A.R.	MAX	120																				
					Pressurizing valve opening P1 - Po 55 68 psi																			
<u>METERING VALVE ORIFICE AND BY-PASS HEAD (P1-P2) "HG SETTING</u>																								
Note: At test points 2.01, 2.02, and 2.05 open shut-off valve to Pn gauge. Close valve after test.																								
2.01	2	3-6	1	4																				
	6200	1400	MAX	40.0	241		255		5-7 Pn=210psig															
					P1-P2 = 30-48 in Hg.																			
2.02	2900	660	28-30	-	40.0	88		93		Pn=75 psig														
					Remove Py line.																			
2.03	6200	1400	MAX	-	90.0	541		575		760														
					Px - Py 1.20 in Hg. max.																			
2.04	6200	1400	MAX	-	135.0	730		770		950														
2.05	6200	1400	MAX	-	40.0	-10		+10		Pn=210psig														
					Hysteresis of T.P. 2.01.																			

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						SHEET 3 OF 6		SHEETS 6		REV. D
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psig
						MIN	REC	MAX		
ENRICHMENT SPRING SETTING										
3.01	2 6200	3-6 1400	1 MAX	-	4 90.0	X		X		5-7 760
	Record nozzle flow									
3.02#	5950	1320	MAX	-	90.0	-10		-18		730
	Fuel flow to be 10 to 18 PPH less than 3.01. Approach enrichment speed from 5450 RPM.									
3.03	4000	900	MAX	-	70.0	387		411		480
MAX. GOVERNOR SPRING SETTING										
#	4	3-7	1		2-5					6
4.01	6487	1550	MAX	-	95.0	473		523		650
4.02		1550	"	-	95.0		481			615
	Record speed									
4.03		1550	"	-	95.0	321		381		370
	Increase speed 150RPM above the recorded speed at T.P. 4.02. Flow to be within limits shown.									
4.04		1550	"	-	95.0		481			615
	Hysteresis 0 50 RPM of T.P. 4.02									
4.05	6487	1550	30°-35°	-	95.0	X		240		Pn=170psig
IDLE SPEED STOP SETTING AND PICK-UP ANGLE										
(a) At T.P. 5.01 insert 0.1875 dia. Rigging pin and check T.A. At T.P. 5.02 increase T.A. until 4 pph max. fuel flow from 5.01 is observed. (T.A. where flow starts to increase is pick-up angle).										
#	4	1-7	5		2-6					3-8
5.01	3560	810	28-30	-	34.0	130		150		Pn=107psig
	Open shut-off valve to Pn gauge.									
5.02	3560	810				Idle throttle angle	35°			39°
	Remove rigging pin.									

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		TEST SPECIFICATION					AETS 71446			
							SHEET 4	SHEETS OF 6		REV. D
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psig
						MIN	REC	MAX		
<u>LOW END OF ACCELERATION FLOW AND THROTTLE MOVEMENT EFFECT</u>										
(a) After recording nozzle flow at test point 6.02 move throttle to 30° T.A. Close shut-off valve to Pn gauge.										
(b) Observe nozzle flow change and record.										
6.01	2 815	5 200	3 40	-	1 Local	80		X	4-6 Pn=35psig	
6.02	1700	400	40	-	25.0	136		150	Pn=107psig	
Move T.A. to 30°							5 PPH maximum decrease			
<u>MAX. IDLE RESET STOP ADJ.</u>										
Hold idle reset lever against idle reset stop. Record fuel flow.										
#	1	3-5			2				4	
7.01	4380	990	-	-	70.0	258		278	Pn=240psig	
						Record T.A.				
<u>MANUAL OVERRIDE</u>										
Rotate override lever C.W. and maintain in contact with lever stop.										
8.01	2 5760	5 1350	3 30	-	1 Local	415		435	4 480	
8.02	Record manual override total travel.					Angular travel 84°		94°		
<u>CUT-OFF MODULATION AND CUT-OFF LEAKAGE</u>										
A) At T.P. 9.01, set test condition with 20° T.A. Open shut-off valve to Pn gauge.										
(a) Move throttle to 30° T.A. and observe nozzle flow change.										
(b) Close shut-off valve after test.										
9.01	2 2000	3-6 500	1 20	-	4 A.R.	160		170	5-7 Pn=150psig	
Nozzle flow change							2 PPH max			
B) At T.P. 9.02, check cut-off leakage.										

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		TEST SPECIFICATION				AETS 71446				
						SHEET 5 OF 6			REV. D	
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psig
						MIN	REC	MAX		
(a) Remove nozzle outlet line from control. (b) Set total supply with throttle in cut-off position. (Highest T.A. position where no leakage is observed at outlet fitting). (c) Increase T.A. to permit flow out the outlet fitting, and adjust Po pressure to 40 +/- 2 psig. (d) Decrease T.A. as required until no leakage is observed at outlet fitting (Observe T.A.). (e) Same Pc as established for T.P. 9.01. (f) Record cut-off leakage. (g) Record P1.										
9.02	2000	500	8-10	-	A.R.	0		0.5		
						cc/min.				
						P1 pressure				250 psig max.
C) At T.P. 9.03 (-5° T.A.)										
(a) Observe P1 pressure										
9.03	2000	3-5 500	1 -5	-	A.R.					
						P1 pressure equal to or less than T.P. 9.02			P1	Psig
D) At test point 9.04										
(a) Operate throttle lever over full range of travel/										
(b) Record throttle torque.										
9.04			Min-Max-Min		Local					
						Throttle torque				15 in-lb max.
9.05	6487	1450	Max.	-	135					
Reconnect nozzle outlet. Set condition lever to -5°, distance between centres of idle reset lever shaft and max. idle reset link must be 0.30 Min. X Nozzle flow less than 85 PPH.										
						O.K.				Reject

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		TEST SPECIFICATION				AETS 71446				
						SHEET 6	OF 6	SHEETS 6	REV. D	
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psig
						MIN	REC	MAX		
EXTERNAL LEAKAGE CHECK A) Cap Po at drive flange by-pass tap. B) Remove Po line to control and install Po plug. C) Cap outlet port. D) Set P1 pressure to 1000 psig. E) Observe leakage for 2-3 minutes. F) No leakage permitted.										
						OK	☐	Reject		
Record shipping weight						X	☐	5.4 lbs. max.		
						Checked By:				
						Inspected By:				

Observações Remarks			
Aprovação Approval	Nome Name	Data Date	Assinatura Signature
FS.0991			

