

	REGISTRO RECORD	REVISÃO REVISION 0
CODIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE 1/13

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	73-20-25	TLN02330	Nov. 04,2021 Revision 04
CONJUNTO MAIOR MAIN PART			
		PN	SN

TESTE APLICÁVEL AOS PART NUMBERS TEST APPLICABLE TO PART NUMBERS		
3244771-1	3244771-2	3244771-3

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
3.B	Monte a FCU na bancada de teste, usando o adaptador estriado e o adaptador de montagem. <i>Assemble the Main Fuel Control Unit to the test stand, using spline adapter and mounting adapter, or equivalent.</i>			
3.C-E	Remova o plugue e instale o acessório especial de teste. Remova o plugue e instale um adaptador padrão nas portas. <i>Remove plug and assemble, special testing fixture. Remove plug and install a standard adapter into ports.</i>			
4.A-D	Remova o contra pino, porca e espaçador do eixo de aceleração. Instale o Quadrante de Aceleração na extremidade do eixo de aceleração e torquie de 40-45 lb.in. <i>Remove cotter pin, nut, and spacer from throttle shaft. Assemble throttle quadrant and pointer on the end of throttle shaft and tighten to 40-45 lb.in.</i>			
5.A	Mantenha uma pressão Po de 10-30 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 300 pph e dentro de ± 25 psig em pressões mais altas, usando a válvula reguladora de contrapressão Pn. <i>Maintain a Po pressure of 10 - 30 psig on Po pressure gage, except where otherwise specified. Maintain P2 pressure within ± 10 psi of the value specified at pressures below 300 pph and within ± 25 psig at higher pressures, using Pn back pressure regulator valve.</i>			
5.E	Ajuste o parafuso de pressão diferencial P1-P2 para uma pressão de 26 – 42 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 26 - 42 in.Hg. Adjust metering valve sleeve assembly orifice until P1-P2 pressure differential and nozzle flow are within the limits specified.</i>			
5.E	Torqueie as porcas de 35 – 40 lb.in. Registre todas as pressões diferenciais de P1-P2 e o fluxo de injeção e, adicionalmente, as pressões Pc-Px, Px-PY e P2. <i>Torque nuts to 35 – 40 lb.in. Record all P1-P2 pressures differentials and nozzle flows and additionally, Pc-Px, Px-Py, and P2 pressures.</i>			

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TESTE DA UNIDADE DE CONTROLE DE COMBUSTÍVEL <i>FUEL CONTROL UNIT TEST</i>				
ITEM <i>Item</i>	PROCEDIMENTOS TOLERÂNCIAS <i>Procedures Serviceable limits</i>	Resultado <i>Result</i>	Data <i>Date</i>	Executante <i>Performed by</i>
5.F	Ajuste a porca até que o fluxo de injeção leia 13-17 pph. <i>Adjust nut until the nozzle flow reads 13 – 17 pph.</i>			
5.G	Se o fluxo do injetor não estiver de acordo com os limites especificados, troque o fluxo de ar Py. Torqueie o fluxo de ar Py de 9 – 11 lb.in. <i>If the nozzle flow is not within the specified limits, change Py air flow jet. Torque air flow jet to 9 – 11 lb.in.</i>			
5.H	Após ajustar o parafuso de ajuste da velocidade de marcha lenta, torqueie a porca de 20 – 25 lb.in. <i>After adjustment of idle speed adjustment screw, torque nut to 20 – 25 lb.in.</i>			

TESTE AETS 48020 <i>AETS 48020 TEST</i>
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TEST SPECIFICATION			Number	Rev.																													
			AETS 48020	F																													
			Sheet 1 of 7																														
Orig By: ESA Goup		Chk By: M. Taylor	Project Leader: W. H. Foster		MFG Approval: S. Graveline																												
Date:		Test Stand No.:	Operator:		S/N:																												
Unit:		Model: DP-F2 /A-34		P/N: 3244771																													
A. See AEEI 48022 for location of adjustments and pressure taps. B. Connect TS-ES Slave Sensor to control. Mechanically position sensor needle to dial indicator readings as designated on sensor for +105°, +59° and -50° temp. stations. A fixture conforming to the requirements of AEEI 48418 may be used as an alternative. C. (1) Install throttle quadrant fixture with a 4.0 lbs. load applied to throttle lever to hold lever against max. throttle stop. (2) Index throttle quadrant to 90° T.A. Torque throttle quadrant fixture to 40-45 in. lbs. D. Control rotation CW as viewed from control shaft end. E. Maintain Po pressure of 10 to 30 psig at control by-pass tap, except where otherwise specified. F. P2 must conform to AEEI 48022 Fig.3 at all nozzle flow test points, except where Pn limit is required. G. Set test conditions (temp., RPM, supply & Pc) in the sequence indicated by number 1, 2, 3, ect. (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. H. All adjustments are to be properly torqued. Test points indicated (*) require special attention and are to be checked following proper torquing. <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">1. Metering valve orifice torque</td> <td style="width: 10%; text-align: center;">35</td> <td style="width: 10%; text-align: center;"> </td> <td style="width: 40%; text-align: right;">40 in. lbs.</td> </tr> <tr> <td>2. Bypass setting torque</td> <td style="text-align: center;">25</td> <td style="text-align: center;"> </td> <td style="text-align: right;">35 in. lbs.</td> </tr> <tr> <td>3. Min. M.V. stop (breakaway) torque</td> <td style="text-align: center;">4</td> <td style="text-align: center;"> </td> <td style="text-align: right;">20 in. lbs.</td> </tr> <tr> <td>4. Max. flow M.V. stop torque</td> <td style="text-align: center;">20</td> <td style="text-align: center;"> </td> <td style="text-align: right;">25 in. lbs.</td> </tr> <tr> <td>5. Max. gov. eccentric lock-nut torque</td> <td style="text-align: center;">7</td> <td style="text-align: center;"> </td> <td style="text-align: right;">7.5 in. lbs.</td> </tr> <tr> <td>6. Max. throttle stop torque</td> <td style="text-align: center;">20</td> <td style="text-align: center;"> </td> <td style="text-align: right;">25 in. lbs.</td> </tr> <tr> <td>7. Idle speed stop torque</td> <td style="text-align: center;">20</td> <td style="text-align: center;"> </td> <td style="text-align: right;">25 in. lbs.</td> </tr> </table>						1. Metering valve orifice torque	35		40 in. lbs.	2. Bypass setting torque	25		35 in. lbs.	3. Min. M.V. stop (breakaway) torque	4		20 in. lbs.	4. Max. flow M.V. stop torque	20		25 in. lbs.	5. Max. gov. eccentric lock-nut torque	7		7.5 in. lbs.	6. Max. throttle stop torque	20		25 in. lbs.	7. Idle speed stop torque	20		25 in. lbs.
1. Metering valve orifice torque	35		40 in. lbs.																														
2. Bypass setting torque	25		35 in. lbs.																														
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		TEST SPECIFICATION				AETS 48020				
						SHEET SHEETS 2 of 7		REV. F		
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psi
						MIN	REC	MAX		
8.	Flow body to drive body torque				20			25 in. lbs.		
9.	Drive body adapter to drive body torque				25			30 in. lbs. in 5 in. lbs. Increments		
10.	Bleeds torque				9			11 in. lbs.		
I. Speed for Test Points indicated (#) (3.02, 5.01, 5.02, 6.01, 6.02, 8.01), is to be set to ± 2 RPM of specified value. All other points are to be set within ± 20 RPM of specified value. J. Total supply is to be set to ± 20 PPH of the specified value or within limits when shown. When aircraft pump is used and speed is specified, ignore total supply flow and Po pressure settings. K. Before calibration, check for external air leakage using MIL-PRF-25567 TYPE 1. Slow bubbling is permitted at the joint drive body and flow body, at the joint of drive body and drive body adapter, at the torsion shaft cover and at the bellows at torsion shaft locknuts. No leakage is permitted at any other point. Pc= 100 psia. If leakage is considered excessive, measure Px-Py when Pc = 100 psia., RMP = 0 and T/A = max. Px to be measured at the bellows ratio lever cover. Px- Py ±1.2" Hg. max.										

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		TEST SPECIFICATION					AETS 48020			SHEET 3 of 7 SHEETS REV. F	
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psi	
						MIN	REC	MAX			
<u>CHECK RELIEF VALVE OPENING</u>											
(a) Cap outlet port. (b) Increase P1 pressure until fuel supply is within supply limits specified and observe P1-Po differential. (c) If P1-Po differential is out of limits, shim as required. (1) Add shims to increase differential.											
1.01	1 A.R.	5 200-275	2 Max	3 +105	4 85						
						Relief valve opening	P1-Po	950		1000 psi	
<u>CHECK PRESSURIZING VALVE OPENING</u>											
(a) Open outlet port. (b) Increase P1 pressure and observe start of nozzle flow. (c) If P1-Po differential is out of limits, shim as required. (1) Add shims to increase differential.											
1.02	1 A.R.	5 A.R.	2 Max	3 +105	4 85						
						Press. valve opening	P1-Po	55		68 psi	
<u>METERING VALVE ORIFICE AND BYPASS HEAD (P1-P2 "HG) SETTING</u>											
a) Test points 2.01 thru 2.03 are interrelated and should be recorded after all three (3) adjustments have been made. 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 less than 33 in. Hg. remove and discard existing spacer. c) Re-torque the by-pass valve retaining screws to 20in. lb. in increments of 5in.lb. and re-calibrate T.P. 2.01 to 2.03.											
2.01*	3 5800	4-6 1350	1 Max	2 +105	5 40.0	203		212			
						Adjust head & orifice P1-P2 26-42" HG.					
2.02*	2900	720	30-32	+105	40.0	80		84			
Pn 75-90 psig. Set Min. M.V. stop after removing Py line. Open back press. Valve.											

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	TEST SPECIFICATION	AETS 48020	
		SHEET 4 of 7	SHEETS 7
			REV. F

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psi
						MIN	REC	MAX		
2.03*	5800	1350	Max	+105	70	367		373		

Retrim head & re-adjust 2.01 & 2.02 if out of limits.

P2= 365 415 psig Po-Px 1.0 in. Hg Max
 Px-Py 1.2 in. Hg. Max

As per note (b) Check appropriate box

Original spacer ☐
 Spacer removed ☐
 Spacer replaced ☐

2.04*	5800	1350	Max	+105	105	506		520	
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Set Max. M.V. stop

2.05	5800	1350	Max	+105	40.0	-10		+10	
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Hysteresis of T.P. 2.01

ENRICHMENT SPRING SETTING

3.01	3-7 5800	4-6 1350	1 Max	2 -50	5 55.0	X		X
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Record Nozzle Flow.

3.02#	5100	1170	Max	-50	55.0	-13		-17
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Set speed enr. -13 -17 PPH less than 3.01. Increasing spring tension (CW on adj. nut). Increases Difference. (Re-check T.P. 3.01 & 3.02 after adj.).

4.01	3 4000	4-6 1000	1 Max	2 -50	5 40	172		183	Pn 100-110 psig
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Po-Px 8.5 11.5"Hg.

MAX. GOVERNOR SPRING SETTING

- (a) Adjust eccentric shaft to meet flow limits.
- (b) If unable to set with eccentric, max. 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.
- (d) Split control and adjust gov. spring as required. (CW adj. of gov. spring delays break approximately 1 flat on adj. nut per 50 RPM).
- (e) If Gov. slope is not in limits, select Py bleed. P/N 2525107 #58 #66
 (Higher number bleed to increase difference in flow).

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						TEST SPECIFICATION				AETS 48020		
						SHEET 5 of 7		SHEETS 7		REV. F		
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psi		
						MIN	REC	MAX				
	5	4-7	1	2	3-6							
5.01#	6350	1440		+59	85	335		345				
	Set Gov. Break T.A. at 89-91.					Px-Py		"Hg.				
5.02#	6500	1530		+59	85	105		125				
	Diff. from T.P. 5.01 (Gov. Slope).					Px-		Py "Hg.				
5.03		1440		+59	85	X		X				
	Hysteresis within -50						+0 RPM of test point 5.01.					
<u>IDLE SPEED STOP SETTING AND PICK-UP ANGLE</u>												
(a) At test point 6.02 increase T.A. until 4 PPH max. fuel flow from 6.01 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 gov. spring. 1) Use stronger spring (3 stripes) if pick-up angle exceeds 56° diff. from test point 5.01. 2) Use weaker spring (one stripe) if pick-up angle is less than 52° diff. from test point 5.01. 3) Adjust spring tension to same load as set on spring removed. 4) Re-set gov. break at test point 5.01 and rerun test points 5.02 and 5.03. 5) Re-set idle stop screw at test point 6.01.												
6.01#	4	1-7	5	2	3-6							
	3200	800	30-32	+59	30	104		112	Pn 95 – 105 psig			
	Set idle stop screw (CW adj. incr. flow) decrease and reset speed after adjustment.											
6.02#	3200	800		+59	30				Pn 95 – 105 psig			
	Throt. Cam pick-up angle Diff. 52° 56° of test point 5.01											

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	TEST SPECIFICATION	AETS 48020		
		SHEET SHEETS 6 of 7	REV. F	

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psi
						MIN	REC	MAX		

LOW END OF ACCEL., CURVE AND THROTTLE MOVEMENT EFFECT

	3	5	4	2	1					
7.01	815	200	40	+59	Local	60		X		Pn 75 - * psig
7.02	2100	670	40	+59	25.0	113		124		Pn 95 - 105 psig
							Move T.A. to 30°			5 PPH max. dec.

(a) After recording nozzle flow at test point 7.02 move throttle to 30T.A.

(1) Observe nozzle flow change and record.

MAX. IDLE RESET STOP ADJ.

(a) Adjust max. idle reset stop to meet flow limits.

	1	4-6	5	2	3-7					
8.01#	5000	1170		+59	55	188		197		Pn 100-115 psig
							Set Max. idle reset stop. Record T.A.			

CUT-OFF MODULATION AND CUT-OFF LEAKAGE

- A. At test point 9.01 set test conditions with 20° T.A.
(a) Move thro. to 30° T.A. and observe nozzle flow change.
(b) If nozzle flow change is excessive –
(1) Reset thro. 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 limit.

	3	4-6	1	2	5					
9.01	2000	500	20	+105	A.R.	160		170		
										Pn 90-105 psig
							Nozzle Flow Change			4 PPH MAX.

- B) At test point 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.
(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.

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		TEST SPECIFICATION				AETS 48020				
						SHEET 7 of 7	SHEETS 7	REV. F		
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1-P2 "Hg	P ₂ psi
						MIN	REC	MAX		
9.02	3 2000	4-6 500	1 8-10	2 +105	5	0		0.5 cc/min.		
								Cut-off leakage		
							P1 pressure		250 psig max.	
C) At test point 9.03 (-5° T.A.).										
(a) Observe P1 pressure. (b) Adjust override nut for .005" to .010" 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	3 2000	4-6 500	1 -5	2 +105	5 A.R.					
						Pc same as in T.P. 9.01, P1 same or less than T.P. 9.02	P1		PSIG	
9.04	2000		MIN-MAX-MIN	Local		Thro. Torque		15in. lbs. max.		
Operate thro. Lever over full range.										
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 REJ.										

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TESTE AETS 48021 AETS 48021 TEST

TEST SPECIFICATION			Number AETS 48021	Rev. E
			Sheet 1 of 5	
Orig By: G. Chan	Chk By: W.H. Foster	Project Leader: M. Taylor	MFG Approval:	
Date:	Test Stand No.:	Operator:	S/N:	
Unit: Automatic Fuel Control		Model: DP-F2/A-34	P/N: 3244771	
A. See AEEI 48022 for location of adjustments and pressure taps. B. Connect TS-E2 Slave Sensor to control. Mechanical position sensor needle to dial indicator readings as designated on sensor for +105°, +59° and -50° temp. stations. A fixture conforming to the requirements of AEEI 48418 may be used as an alternative. C. (1) Install throttle quadrant fixture with a 4.0 lb. load applied to throttle stop lever to hold lever against maximum throttle stop. (2) Index throttle quadrant to 90° T.A. Torque throttle quadrant fixture to 40-45 in. lbs. D. Control rotation CW as viewed from control shaft end. E. Maintain Po pressure to 10 to 30 psig at control by-pass tap except where otherwise specified. F. P2 must conform to AEEI 48022 Fig. 3 at all nozzle flow test points, except where Pn limit is required. G. Set test conditions (temp., supply and Pc) 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. H. Speed for Test Points 3.02, 5.01, 5.02, 6.01, 6.02 and 8.01 is to be set to ± 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 and speed is specified ignore total supply flow and Po pressure settings.				

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				TEST SPECIFICATION			AETS 48021			
							SHEET 2	SHEETS OF 5	REV. E	
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psi
						MIN	REC	MAX		

CHECK RELIEF VALVE OPENING

(a) Cap outlet port.

(b) Increase P1 pressure until fuel supply is within limits specified and observe P1-Po differential.

1.01	1 A.R.	5 200-275	2 Max	3 +105	4 85					
Relief valve opening P1-Po						950		1000 psi		

CHECK PRESSURIZING VALVE OPENING

(a) Open outlet port.

(c) Increase P1 pressure and observe start of nozzle flow.

1.02	1 A.R.	5 A.R.	2 Max	3 +105	4 85					
Press. Valve opening P1-Po						52		70 psi		

METERING VALVE ORIFICE AND BYPASS HEAD (P1-P2" HG) SETTING

2.01	3 5800	4-6 1350	1 Max	2 +105	5 40.0	201		214	
2.02	2900	720	30-32	+105	40.0	80		85	
Remove Py line. Open back press. valve.						Pn 75 – 90 psig.			
2.03	5800	1350	Max	+105	70.0	363		376	
						Pc-Px		1.0" HG max.	
						Px-Py		1.2" HG max.	
						P2	365		415 psig.
2.04	5800	1350	Max	+105	105	505		525	
2.05	5800	1350	Max	+105	40.0	-10		+10	

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								3	OF	5		
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 *Hg	P2 psi		
						MIN	REC	MAX				
ENRICHMENT SPRING SETTING												
3.01	3-7 5800	4-6 1350	1 Max	2 -50	5 55	X		X				
Record nozzle flow												
3.02	5100	1170	Max	-50	55	-9		-21				
4.01	3 4000	4-6 1000	1 Max	2 -50	5 40	168		187				
										Pn 100 – 110 psig		
										Pc-Px 8.5 11.5*Hg		
MAX. GOVERNOR SPRING SETTING												
5.01	5 6350	4-7 1440	1 	2 +59	3-6 85	310		370				
5.02	6500	1530		+59	85	100		130				
Difference from test point 5.01 (Gov. Slope)												
5.03		1440		+59	85	X		X				
										Hysteresis -50 +0 RPM hyst. of test point 5.01		
IDLE SPEED STOP SETTING AND PICK-UP ANGLE												
At test point 6.02 increase T.A. until 4 PPH max. fuel flow from 6.01 is observed. (T.A. where flow starts to increase is pick-up angle).												
6.01	4 3200	1-7 800	5 30-32	2 +59	3-6 30	103		113		Pn 95 – 105 psig		
6.02	3200	800		+59	30					Pn 95 – 105 psig.		
Throt. Cam pick-up angle diff. of T.P. 5.01 52° 56°												

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			TEST SPECIFICATION			AETS 48021				
						SHEET 4	SHEETS OF 5		REV. E	
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psi
						MIN	REC	MAX		
LOW END OF ACCEL. CURVE, AND THROTTLE MOVEMENT EFFECT										
7.01	3 815	5 200	4 40	2 +59	1 Local	60		X	Pn 75 - * psig	
7.02	2100	670	40	+59	25	111		126	Pn 95 - 105 psig	
						Move. T.A. to 30° 5 PPH maximum decrease				
(a) After recording nozzle flow at test point 7.02 move throttle to 30° T.A. (1) Observe nozzle flow change and record.										
MAX. IDLE RESET STOP ADJ.										
8.01	1 5000	4-6 1170	5 X	2 +59	3-7 55	188		197	Pn 100 - 115 psig.	
						Record T.A.				
CUT-OFF MODULATION AND CUT-OFF LEAKAGE										
A. At test point 9.01 set test condition with 20° T.A. (a) Move thro. to 30° T.A. and observe nozzle flow change.										
9.01	3 2000	4-6 500	1 20	2 +105	5 A.R.	160		170	Pn 90 - 105 psig.	
						Nozzle flow change 4 PPH max.				
B. At test point 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. (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.										
9.02	3 2000	4-6 500	1 8-10	2 +105	5	0		0.5 cc/min		
							Cut-off leakage			
							P1 pressure 250 psig max.			

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				TEST SPECIFICATION			AETS 48021			
							SHEET 5	SHEETS OF 5	REV. E	
TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH			P1 - P2 "Hg	P2 psi
						MIN	REC	MAX		
C. At test point 9.03 (-5° T.A.). (a) Observe P1 pressure. (b) Upper lever (idle reset lever) stop to just contact lever. (c) At 0° T.A. lower C.O. lever to be within ±5° of horizontal. (d) Pc same as T.P. 9.01.										
9.03	2000	500	-5	+105	A.R.					
P1 pressure equal to or less than T.P. 9.02										
9.04	2000	MIN-MAX-MIN			Local	Thro. Torque			15 in. lbs. max.	
Operate thro. Lever over full range.										
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		

Observações Remarks	

Aprovação Approval	Nome Name	Data Date	Assinatura Signature
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