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	73-20-52	TLN02396	January 11th, 2016 Temporary Revision 73-14

CONJUNTO MAIOR | *MAIN PART*	
P/N	S/N

TESTE APLICÁVEL AOS PART NUMBERS | *TEST APPLICABLE TO PART NUMBERS*	
3244787-4	3244787-5

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	Monte a FCU na bancada de teste, usando o adaptador estriado e o adaptador de montagem. *Assemble the Main Fuel Control Unit to the test stand, using spline adapter and mounting adapter, or equivalent.*			
B	Remova o plugue e instale o acessório especial de teste. Remova o plugue e instale um adaptador padrão nas portas. *Remove plug and assemble, special testing fixture. Remove plug and install a standard adapter into ports.*			
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. *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.*			
D	Mantenha uma pressão Po de 10-30 psig na conexão de Po, usando uma válvula reguladora de pressão de retorno 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. *Maintain Po pressure of 10 to 30 psig, using Po back pressure regulator valve, 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.*			

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*
E	Ajuste o parafuso de pressão diferencial P1-P2 para uma pressão entre 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. *Adjust P1-P2 pressure differential adjustment screw between 26-42 in.Hg. Adjust metering valve sleeve assembly orifice until P1-P2 pressure differential and nozzle flow are within the limits specified.*			
F	Torqueie as porcas para os valores especificados. Registre todas as pressões diferenciais de P1-P2 e fluxo de injeção e adicionalmente, a pressão de Pc-Px, Px-Py e P_2 no Ponto de Teste. *Torque nuts to values specified. Record all P1-P2 differential pressure and nozzle flows and additionally, (Pc-Px)pressure, (Px-Py) pressure and (P_2) pressure at Test Point.*			
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 no valor especificado. Registre o fluxo de ar (Py) instalado. *If the nozzle flow is not within the specified limits, change Py air flow jet. Torque air flow jet to value specified. Record (Py) air flow jet size installed.*			
H	Após ajustar o parafuso de ajuste da velocidade de marcha lenta, torqueie a porca de 20-25 lb.in. *After resetting idle speed adjustment screw, torque nut to 20-25 lb.in.*			

TESTE AETS 48395 | *AETS 48395 TEST*

	TEST SPECIFICATION	Number AETS 48395	Rev. D
		Sheet 1 of 7	
Orig By: ESA Group	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: 3244787

REL. DATE	REV.	RECORDS OF PREVIOUS REV. OMITTED
18 AUG 98	D	

SHT REV STATUS												
SHT REV	D	D	D	D	D	D	D					
	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24

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.

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 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., RPM, 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. All adjustments are to be properly torqued.
Test points indicated (*) require special attention and are to be checked following proper torquing.

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.
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.
11.	Manual override stop nut torque	20		25 in. lbs.

	TEST SPECIFICATION	AETS 48395	
CODE IDENT 07213		SHEET 2 OF SHEETS 7	REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi

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 M73/9. Slow bubbling is permitted at the joint of drive body and flow body, at the joint of drive body and drive body 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 when Pc = 100 psia, RPM = 0 and T/A = max. Px to be measured at the bellows ratio lever cover.

Px-Py [ ] ±1.2" Hg. Max.

L. Maintain manual override fully c.c.w. except where otherwise indicated.

TEST SPECIFICATION

AETS 48395

SHEET 3 OF SHEETS 7 REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi

CHECK RELIEF VALVE OPENING

(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	5	2	3	4					
1.01	A.R.	200-275	Max	+105	85					

Relief valve opening P1-Po 950 [ ] 1000 psi

CHECK PRESSURIZING VALVE OPENING

(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	5	2	3	4					
1.02	A.R.	A.R.	Max	+105	85					

Press. valve opening P1 - Po 55 [ ] 68 psi

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

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 20 in. lb. in increments of 5 in. lb. and re-calibrate T.P. 2.01 to 2.03.

	3	4-6	1	2	5					
2.01*	5800	1350	Max	+105	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.

TEST SPECIFICATION

AETS 48395

SHEET 4 OF SHEETS 7 REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi
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

Pc-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		

Set Max. M.V. stop

2.05	5800	1350	Max	+105	40.0	-10		+10		

Hysteresis of T.P. 2.01

ENRICHMENT SPRING SETTING

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

Record nozzle flow.

3.02#	5100	1170	Max.	-50	55.0	-13		-17		

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.).

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

TEST SPECIFICATION

AETS 48395

SHEET 5 OF SHEETS 7 REV. D

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

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).

	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.

Px-Py [ ] "Hg.

IDLE SPEED STOP SETTING AND PICK-UP ANGLE

(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 a higher numbered spring if pick-up angle exceeds 56° diff. from test point 5.01.
  (2) Use a lower numbered spring 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.

	4	1-7	5	2	3-6				
6.01*#	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

Throttle cam pick-up angle diff. 52° [ ] 56° of test point 5.01

Spring [ ] Stripe

TEST SPECIFICATION

AETS 48395

SHEET 6 OF SHEETS 7 REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi
	LOW END ACCEL., CURVE AND THROTTLE MOVEMENT EFFECT									
	3	5	4	2	1					
7.01	815	200	40	+59	Local	60		X		Pn 75 - X 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 30 T.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.				

MANUAL OVERRIDE

At test point 9.01 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.

	1	5	2	3	4			
9.01	5000	1170	32	+59	Amb.	405		415 PPH
9.02	Rotate manual override total angular travel				94°			104°

CUT-OFF MODULATION AND CUT-OFF LEAKAGE

A. At test point 10.01 set test condition 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				
10.01	2000	500	20	+105	A.R.	160		170	
									Pn 90 – 105 psi
					Nozzle flow change			4 PPH max.	

	TEST SPECIFICATION	AETS 48395
		SHEET 7 OF SHEETS 7 — REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi

B. At test point 10.02 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. 10.01.

10.02	2000	500	8-10	+105		0	☐ 0.5 cc/min
							☐ Cut-off leakage
						P1 pressure	☐ 250 psig max.

C. At test point 10.03 (-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.

	3	4-6	1	2	5		
10.03	2000	500	-5	+105	A.R.		
						Pc same as in T.P. 10.01, P1 same or less than T.P. 10.02	P1 ☐ PSIG
10.04	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 ☐ REJ.

TESTE AETS 48396 | *AETS 48396 TEST*

	TEST SPECIFICATION	Number AETS 48396	Rev. D
		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: 3244787

REL. DATE	REV.	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV	SHT	REV
RECORDS OF PREVIOUS REV. OMITTED	D	STATUS	D	D	D	D	D																
14 AUG 98			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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.

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.

J. Maintain manual override fully C.C.W. except where otherwise indicated.

	TEST SPECIFICATION	AETS 48396 SHEET 2 SHEETS OF 5	REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi

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	[ ]	
										P1 – P2 = 24-43"Hg
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	[ ]	
	Hysteresis of T.P. 2.01									

TEST SPECIFICATION

AETS 48396

SHEET 3 OF SHEETS 5 — REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi
ENRICHMENT SPRING SETTING										
	3-7	4-6	1	2	5					
3.01	5800	1350	Max	-50	55	X		X		
	Record nozzle flow									
3.02	5100	1170	Max	-50	55	-9		-21		
	3	4-6	1	2	5					
4.02	4000	1000	Max	-50	40	168		187		
									Pn 100 – 110 psig	
								Pc-Px 8.5		11.5"Hg
MAX. GOVERNOR SPRING SETTING										
	5	4-7	1	2	3-6					
5.01	6350	1440		+59	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).										
	4	1-7	5	2	3-6					
6.01	3200	800	30-32	+59	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°			

TEST SPECIFICATION

AETS 48396

SHEET 4 OF SHEETS 5 REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi
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	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.									
	1	4-6	5	2	3-7				
8.01	5000	1170	X	+59	55	188		197	Pn 110 – 115 psig.
					Record T.A.				

MANUAL OVERRIDE

9.01 At test point 9.01 rotate override lever C.W. and maintain in contact with lever stop.

	5000	1170	32	+59	Amb.	400		420 PPH

9.02 Record manual override total angular travel. 94° 104°

CUT-OFF MODULATION AND CUT-OFF LEAKAGE

A. At test point 10.01 set test condition with 20° T.A.
(a) Move thro. to 30° T.A. and observe nozzle flow change.

	3	4-6	1	2	5				
10.01	2000	500	20	+105	A.R.	160		170	Pn 90 – 105 psig.
					Nozzle flow change			4 PPH max.	

B. At test point 10.02 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. 10.01.

TEST SPECIFICATION

AETS 48396

SHEET 5 OF SHEETS 5 — REV. D

TEST POINT	SPEED RPM	SUPPLY PPH	THRO DEG.	TEMP °F	Pc psia	NOZZLE FLOW, PPH MIN	NOZZLE FLOW, PPH REC	NOZZLE FLOW, PPH MAX	P1 - P2 "Hg	P_2 psi
	3	4-6	1	2	5					
10.02	2000	500	8-10	+105		0	[ ] 0.5 cc/min			
							[ ] Cut-off leakage			
							P1 pressure [ ] 250 psig max.			

C. At test point 10.03 (-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. 10.01.

10.03	2000	500	-5	+105	A.R.		
						P1 pressure equal to or less than T.P. 10.02	
10.04	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*

DATA *(DATE)*	***MOTIVO DA REVISÃO*** *(REVISION REASON)*	***NOME*** *(Name)*
Aug 3rd, 2022	Original	Jean Andrade
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