

	REGISTRO RECORD	REVISÃO REVISION 01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PÁGINA PAGE 1/10

COMPONENTE Component	O.S W.O	MODELO Model	PN	SN
FUEL CONTROL UNIT		DP-T3 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	TLN02155	Jan. 19,2021 Revision 05
		CONJUNTO MAIOR MAIN PART	
		PN	SN

TESTE APLICÁVEL AOS PART NUMBERS TEST APPLICABLE TO PART NUMBERS					
2524738-34	2524738-35	2524738-36	2549093-3	2549093-4	2529093-5
23059930	25065113	23065144	23059931	23065114	23065145

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
5.E	As condições do teste devem ser estabelecidas de acordo com as seguintes tolerâncias: <i>Test conditions shall be established within the following tolerances:</i> - Velocidade: ± 5 RPM <i>Speed: ± 5 RPM</i> - Suprimento de combustível ± 1 PPH na taxa de 0-99, ± 0.1 por cento de PPH na taxa de 100 ou superior. <i>Fuel Supply (PPH) ± 1 PPH in the range 0-99, ± 0.1 percent PPH in the range 100 or greater.</i> - Ângulo de aceleração ± 0.25 grau <i>Throttle angle ± 0.25 degree</i> - PC ± 0.10 psia <i>PC ± 0.10 psia</i> - Mantenha a pressão Po de 30 ± 10 psi na válvula de controle by-pass. <i>Maintain Po pressure at 30 ± 10 psi at fuel control bypass tap.</i>		___/___/___	
8.B	Afrouxe a porca e utilizando uma chave Allen no parafuso batente, ajuste a <i>sleeve</i> da <i>metering valve</i> para deixar o fluxo de injeção dentro dos limites. Torqueie as porcas de 35-40 lb.in. <i>Loosen nut and using an Allen wrench in the end of stop screw, adjust metering valve sleeve to bring nozzle flow within limits. Tighten nut to 35-40 lb.in.</i> Torque aplicado (_____) lb.in <i>Applied torque</i>		___/___/___	
	NCC Data de Validade Expiration Date			

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TESTE DA UNIDADE DE CONTROLE DE COMBUSTÍVEL FUEL CONTROL UNIT TEST					
ITEM <i>Item</i>	PROCEDIMENTOS TOLERÂNCIAS <i>Procedures Serviceable limits</i>	Resultado <i>Result</i>	Data <i>Date</i>	Executante <i>Performed by</i>	
8.B	Remova a linha Py da FCU. Afrouxe a porca e ajuste o parafuso para obter um fluxo especificado. Torqueie a porca de 25-30 lb.in. Reconecte a linha Py na FCU. <i>Remove the PY line from the fuel control. Loosen nut and adjust screw to obtain the specified flow. Tighten nut to 25-30 lb.in. Reconnect PY line to the fuel control.</i> Torque aplicado (_____) lb.in <i>Applied torque</i>		____/____/____		
	NCC				Data de Validade <i>Expiration Date</i>
9.D	Afrouxe as porcas e ajuste o conjunto do <i>bellows</i> para levar PC-PY para dentro dos limites. Torqueie a porca de 20-25 lb.in após o ajuste. <i>Loosen nut and adjust bellows assembly to bring PC-PY within limits. Tighten nut to 20-25 lb.in after adjustment.</i> Torque aplicado (_____) lb.in <i>Applied torque</i>				
	NCC				Data de Validade <i>Expiration Date</i>
9.U	Instale as carcaças da FCU e fixe-as com os parafusos. Torqueie os parafusos de 11-12 lb.in <i>Assemble the cover to the main flow body assembly and secure with screws (20). Tighten the screws to 11-12 lb.in.</i> Torque aplicado (_____) lb.in <i>Applied torque</i>		____/____/____		
	NCC				Data de Validade <i>Expiration Date</i>

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LIMITES E CALIBRAÇÃO DO TESTES DE SERVIÇO | SERVICE TEST CALIBRATION LIMITS

TEST SPECIFICATION										DATE: 22-JAN-93				
ALLIED-SIGNAL INC., ALLIED-SIGNAL AEROSPACE COMPANY, BENDIX ENGINE CONTROLS DIV., SOUTH BEND, IN USA														
		MODEL DP-T3			SERIAL NO.			(14-19)		12615 -01		(20-25)		
OPERATOR		PARTS LIST			(1-13)			DATE		(32-37)		PAGE CODE		
										RELEASED: 93-01-25				
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SERVICE LIMITS																
TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPP PPH	PD PSIG	NOZZLE FLOW MIN	PPH RCD	PPH MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG			
1.000	THROTTLE TORQUE															
.010	0		LOCAL 0	0	0		MIN TO MAX TO MIN - 15 POUND INCHES MAX									
2.000	RELIEF VALVE OPERATION															
.010	0 TO MAX		130	0	175-250		RELIEF VALVE OPENING. PI-PO 695 PSI MIN									
.020	"	"	130	0	1800		RELIEF VALVE CAPACITY. PI-PO 930 PSI MAX									
.030	FUEL SUPPLY						105 PPH MAXIMUM AT 600 PSI PI USING TEST CONDITIONS OF TPT 2.010.									
3.000	START DERICHMENT															
			PC-PA IN.HG.				PC-PY INCHES HG									
.010	0	MAX	5.2	0	0	0	MIN RCD MAX									
.020	0	MAX	6.5	0	0	0	0.0 0.7 (MUST BE ADJUSTABLE TO PC-PY OF 1.3-1.6)									
5.000	CUTOFF LEAKAGE AND OPENING															
.010	15		LOCAL 0		AS REQ 0		(PI PRESSURE 100 PSIG) OPENING MUST BE 8-14 DEG. AT CONTROL OUTLET.									
.020	15		LOCAL 0		AS REQ 0		(PI PRESSURE 100 PSIG) CUTOFF MUST BE 14-8 DEG. AT CONTROL OUTLET.									
.030	15	0	LOCAL 0		AS REQ 0	0	(PI PRESSURE 100 PSIG)									
.040	15	8	LOCAL 0		AS REQ 0	0	(PI PRESSURE 100 PSIG)									
.050	0		LOCAL 0		0	0	INSERT THROTTLE RIG PIN. THROTTLE ANGLE MUST BE 39-41 DEG.									
							CONTROL QUADRANT MUST READ 40 DEG.									
.060	0	0	LOCAL 0		0	0	TEST FIXTURE QUADRANT MUST READ 0 DEG.									
7.000	PRESSURIZING VALVE LEAKAGE															
.010	20	MAX	LOCAL 0		AS REQ 0	0	0 (PI PRESSURE 25 PSIG)									

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPP PPH	PD PSIG	NOZZLE FLOW MIN	PPH RCD	PPH MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
9.000	MAXIMUM GOVERNOR SETTING (SET PR-PA AT 1.0 INCH HG FOR TPT 9.010 THRU 9.050)													
.010	70	MAX	130	1700		370	330							
.020	70		130	1700		350	240		255					MUST BE ADJUSTABLE TO 4405-4460 RPM USING MAXIMUM THROTTLE STOP.
.030	70	"	130	1700		250	200							WITHIN 66-127 RPM OF RECORDED RPM AT TPT 9.020.
.040	70	"	130	1700		150	150							HYST WITHIN 86 RPM OF RECORDED RPM AT TPT 9.020.
.050	70	"	130	*1700		350	SAME		AS TPT 9.020.					
10.000	IDLE GOVERNOR SETTING													
.010	70	40	38	1000		150	77		80					MUST BE ADJUSTABLE TO 2600-2620 RPM.
.020	70		38	1000	"	150								CAM PICKUP ANGLE AT 4 PHR FLOW INCREASE FROM TPT 10.010
														MUST BE 45-54 DEG WITH IDLE SPEED ADJUSTED TO 2600-2620 RPM.
.030	70	31	38	1000	"	150								FLOW MUST BE WITHIN 4 PHR OF TPT 10.010.
.040	70	40	38	1000	2900	150								RECORD FLOW.
.050	70	40	38	*			SAME		AS TPT 10.010.					HYST WITHIN 63 RPM OF RECORDED RPM AT TPT 10.010

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OPERATOR					MODEL DP-T3					SERIAL NO. (14-19)					12615 -01 (20-25)				
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TEST POINT	PO PSIG	THROT ANGLE DEG.	PC PSIA	SPEED RPM	FUEL SUPP PPH	PD PSIG	NOZZLE FLOW MIN	PPH RCD	PSI MAX	P1-P2 PSI	PC-PY "HG	PC-PX "HG
11.000 MINIMUM FLOW CHECK (START DERICHMENT UNIT BLANKED OFF AND PY VENTED TO ATMOSPHERE.)												
.010	70	40	36	2500	900	135	24.5		29.5			
CHECK THAT FLOW REMAINS WITHIN LIMITS WHILE THROTTLE SHAFT IS ROTATED FROM 40 DEG TO 31 DEG AND BACK TO 40 DEG.												
12.000 ACCELERATION FLOW (START DERICHMENT UNIT BLANKED OFF AT TPT 12.010 THRU 12.020)												
.010	60	40	14.7	600	200	115	31.0		44.0			
.020	60	40	16.5	1000	350	119	36.0		50.0			
.030	60	40	22	1700	625	130	56.0		72.0			
.050	70	40	29	2200	820	151	82.0		100.0			
.060	70	MAX	33	2400	900	165	97.0		115.0			
.070	70	MAX	41	2700	1000	189	121.0		141.0			
.080	70	MAX	56	3100	1200	251	169.0		189.0			
.090	70	MAX	70	3400	1300	295	214.0		234.0			
.100	70	MAX	82	3600	1400	347	254.5		271.5			
.110	70	MAX	100	3900	1500	430	308.0		330.0			
.120	70	MAX	100	4000	1600	456	326.0		350.0			
13.000 METERING VALVE MAXIMUM STOP ADJUSTMENT												
.010	70	MAX	120	4200	1650	410	282		293			
.020	70	MAX	140	4200	1700	535	342		349			
LOW MAX FLOW SETTING												
P2-PD MUST BE 35 PSI MAX.												
14.000 METERING VALVE HYSTERESIS CHECK												
.010	70	MAX	82*	3600*	1400	347	-10		+10			
.020	70	MAX	70*	3400*	1300	295	-10		+10			
.030	60	40	22*	1700*	625	130	-8		+8			
HYSTERESIS DIFF FROM TPT 12.100.												
" " " " 12.090.												
" " " " 12.030.												

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TEST POINT	PO PSIG	THROT ANGLE DEG.	PC PSIA	SPEED RPM	FUEL SUPP PPH	PD PSIG	NOZZLE FLOW MIN	PPH RCD	PSI MAX	P1-P2 PSI	PC-PY "HG	PC-PX "HG
15.000 START - ACCEL SCHEDULE ADJUSTER CHECK												
.010	60	40	22	1700	625	130	X		X			
.020	"	"	"	"	"	"	+5.0		+11.0			
.030	"	"	"	"	"	"	X		X			
.040	"	"	"	"	"	"	-8.0		-2.0			
.050	"	"	"	"	"	"	56.0		72.0			
ADJUSTER TO BE TURNED TO CW STOP. DIFF FROM TPT 15.010.												
RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.												
ADJUSTER TO BE TURNED TO CCW STOP. DIFF FROM TPT 15.030.												
RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.												
16.000 MANUAL START ACCELERATION FLOW (START DERICHMENT UNIT BLANKED OFF)												
.010	65	16	16.5	1000	350	119						
.020	65	40	16.5	1000	350	119						
.030	65	21	16.5	1000	350	119						
.040	65	40	16.5	1000	350	119						
RECORD P2-P0 (FLOW DIFF FROM TPT 16.010) 5 9 PSI PHR												
(FLOW DIFF FROM TPT 16.030) 1.4 5.4 PHR												
17.000 PR-PG VALVE (SET 10 PSIG AHEAD OF A #80 P/N 392502 BLEED FOR TPT 17.010 THRU 17.040.)												
.010	0		LOCAL	0	0	0	RETARD THROTTLE TO OBTAIN	20		40		
THROTTLE ANGLE MUST BE 47-51 DEGREES.												
.020	0	MAX	LOCAL	0	0	0	PR LEAKAGE	0		4.0		
.030	0	MAX	LOCAL	0	0	0	PG LEAKAGE (PR PORT PLUGGED)	0		7.0		
.040	0	40	LOCAL	0	0	0	PR TO PG FLOW			16.3		
INCHES KEROSENE.												
INCHES KEROSENE												
INCHES HG. MINIMUM												

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPP PPH	PD PSIG	NOZZLE FLOW ,OM	PPH RCD	MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG		
18.000 GOVERNOR RESET CHECK															
										PR-PA INCHES HG					
										MIN		RCD		MAX	
.010	70	MAX	84	3630	1400	180	155		165	5.3		8.3			
.020	70	MAX	40	2690	1000	122	54		62	10.8		13.8			
.030	70	MAX	84	3630	1400	180	SAME		AS	-0.8		+0.8			
										TPT 18.010				HYST DIFF FROM TPT 18.010.	
20.000 EXTERNAL LEAKAGE CHECK															
.010 SET PI PRESSURE AT 1000 PSIG.															
.020 OBSERVE FOR LEAKAGE - NONE PERMITTED OK ☐ REJ. ☐															
.030 INSTALL BELLOWS RATIO LEVER COVER AND O-RING.															
21.000 PNEUMATIC LEAK TEST															
.010 SET DRIVE SPEED TO 0 RPM.															
.020 CAP PY FITTING.															
.030 APPLY 100 PSIA PC PRESSURE.															
.040 USE LEAK TEST SOLUTION TO CHECK FOR IMMEDIATE LEAKAGE IN THE FOLLOWING AREAS:															
BELLOWS PX RATIO COVER-TORQUE TUBE BEARING COVER-PC FILTER FITTING-PY FILTER FITTING.															
OK ☐ REJ ☐															

LIMITES DE CALIBRAÇÃO FINAL | FINAL CALIBRATION LIMITS

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ALLIED-SIGNAL INC., ALLIED-SIGNAL AEROSPACE COMPANY, BENDIX ENGINE CONTROLS DIV., SOUTH BEND, IN USA																								
MODEL DP-T3					SERIAL NO.					(14-19)					12651 -01 (20-25)									
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FINAL																								
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FLOW BENCH NO.	TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PHR	FUEL TEMPERATURE 85 DEG + 5 DEG	PD PSIG	NOZZLE FLOW MIN	PPH RCD	MAX	BAROMETER PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	INCHES HG AT _____ DEG F
1.000 THROTTLE TORQUE																
.010 0 LOCAL 0 0 0 MIN. TO MAX. TO MIN - 12 POUND INCHES																
.020 MAX. CHECK BY-PASS COVER SCREWS TORQUE 19 ☐ 21 LB-IN																
2.000 RELIEF VALVE OPERATION																
.010 0 TO MAX 130 0 175-250 RELIEF VALVE OPENING. PI-PO 725 ☐ 775 PSI																
.020 100 " " " 1800 RELIEF VALVE CAPACITY. PI-PO 900 PSI																
.030 FUEL SUPPLY ☐ 105 PPH MAXIMUM AT 600 PSI PI MAX. USING TEST CONDITIONS OF TPT 2.010.																
3.000 START DERICHMENT																
PC-PA INCHES HG																
PC-PY INCHES HG																
MIN RCD MAX																
.010 0 MAX 5.2 0 0 0 1.3 ☐ 1.6																
.020 " " 6.5 " " " 0.0 ☐ 0.5																
11/2 ☐ 21/2																
LOCKING CLAMP MUST BE TURNS OFF THE LOCKING NUT WHEN POINTER POSITION IS 70 + 5 DEGREES FROM THE CCW STOP.																

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ALLIED-SIGNAL INC., ALLIED-SIGNAL AEROSPACE COMPANY, BENDIX ENGINE CONTROLS DIV., SOUTH BEND, IN USA

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PHR	PD PSIG	NOZZLE MIN	FLOW RCD	PHR MAX	PI-PD1 PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
4.000	METERING VALVE LINEARITY												
.010										ACCEL ADJUSTER MUST BE 3 CLICKS FROM CCW STOP.			
.020	70	MAX	19.0	0	800	70	48		51				
													ADJUST PRES-SURIZING VALVE TO 60 [] 80 PSI P2-P0.
.030	"	35	36	"	900	135	26.5		27.5				REMOVE PY LINE AND ADJUST MINIMUM METERING VALVE STOP.
.040	"	MAX	100	"	1450	392	259		263				P1-P2 26-35 INCHES HG. PC-PY AND PC-PX WITHIN 1.0 INCH HG OF TPT 4.020.

5.000 CUTOFF LEAKAGE AND OPENING (PRESSURING VALVE MUST BE SET TO PREVIOUS PARAGRAPH PRIOR TO RUNNING CUT-OFF PARAGRAPH).

TEST POINT		LOCAL		ASREQ.		PI PRESSURE 100 PSIG		OPENING MUST BE	
.010	15		0		0				10-14 DEG. AT CONTROL OUTLET.
.020	15		"	"	0				(PI PRESSURE 100 PSIG) CUTOFF MUST BE
.030	15	0	"	"	0	0		0	13-10 DEG. AT CONTROL OUTLET.
.040	15	10	"	"	0	0		0	(PI PRESSURE 100 PSIG)
.050	0		"	"	0				(PI PRESSURE 100 PSIG)
									INSERT THROTTLE RIG'PIN. THROTTLE
									ANGLE MUST BE 39-41 DEG.
									CONTROL QUADRANT MUST READ
									40 DEG.
.060	"	0	"	"	0				TEST FIXTURE QUADRANT MUST READ 0 DEG
									AND NUT ON ROD MUST HAVE .005 - .010
									CLEARANCE WITH THE SPACER.

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PHR	PD PSIG	NOZZLE FLOW MIN	FLOW RCD	PHR MAX	PI-PD	P1-P2 PSI	PC-PY "HG	PC-PX "HG
6.000	CUTOFF	MODULATION	TIMING										
.010	65	16	19	0	300	70	-5.7			-7.7	DIFFERENCE IN NOZZLE FLOW FROM THAT OBTAINED AT 40 DEG. THROTTLE ANGLE. ADJUST PRESSURIZING VALVE TO 60 80 PSI P2-PO TO MEET LIMITS. PC-PY MUST BE 0 0.5 INCHES HG.		
.020	"	21	"	"	"	80	-2.4			-4.4	DIFFERENCE IN NOZZLE FLOW FROM THAT OBTAINED AT 40 DEG. THROTTLE ANGLE.		
.030	60	31	"	"	"	135	-1.0			+1.0	DIFFERENCE IN NOZZLE FLOW FROM THAT OBTAINED AT 40 DEG. THROTTLE ANGLE.		

7.000 PRESSURIZING VALVE LEAKAGE

.010	20	MAX	LOCAL 0	ASREQ.0	0	0	(PI PRESSURE 25 PSIG)
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8.000 ENRICHMENT SPRING SETTING

	CHARACTER	SPRING	SEATING								
.010	70	MAX	29	2200	820	151	86				
.020	"	"	82	3600	1400	347	261				
.030	0	"	100	0	0	0					

PC-PX MUST BE
13.2-14.8 "HG
PC-PX MUST BE
WITHIN 5.0
INCHES HG OF
TPT 4.040.

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	FUEL SUPPLY PHR	SPEED RPM	PD PSIG	NOZZLE MIN	FLOW RCD	PHR MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG		
9.000 MAXIMUM GOVERNOR SETTING (SET PR-PA AT 1.0 INCH HG FOR TPT 9.010 THRU 9.050)															
.010	70		130	1700		370		330						THROTTLE ANGLE 94-100 DEG.	
.020	"	"	"	"		350	240		255					RPM LIMIT 4425-4450.	
.030	"	"	"	"		250		200						WITHIN 77-111 RPM OF RECORDED RPM AT TPT 9.020.	
.040	"	"	"	"		180		150						HYSTERESIS WITHIN 43 RPM OF RECORDED RPM AT TPT 9.020.	
.050	"	"	"	"	*		350	SAME		AS					
TPT 9.020															
10.000 IDLE GOVERNOR SETTING															
.010	70	40	38	1000		150	77		80					RPM LIMIT 2600-2620	
.020	"		"	"	"	"								CAM PICKUP ANGLE AT 4 PHR FLOW INCREASE FROM TPT 10.010 MUST BE 47-52 DEG.	
.030	"	31	"	"	"	"								FLOW MUST BE WITHIN 3 PHR OF TPT 10.010	
.040	"	40	"	"	2900	"								RECORD FLOW.	
.050	"	"	"	*		"	SAME		AS					HYSTERESIS WITHIN 43 RPM OF RECORDED RPM AT TPT 10.010.	
10.010															

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ALLIED-SIGNAL INC., ALLIED-SIGNAL AEROSPACE COMPANY, BENDIX ENGINE CONTROLS DIV., SOUTH BEND, IN USA															
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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	FUEL SUPPLY PHR	SPEED RPM	PD PSIG	NOZZLE MIN	FLOW RCD	PHR MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG		
11.000 MIN FLOW CHECK (START DERICHMENT UNIT BLANKED OFF AND PY VENTED TO ATMOSPHERE.)															
.010	70	40	36	2500	900	135	26		28					CHECK THAT FLOW REMAINS WITHIN LIMITS WHILE THROTTLE SHAFT IS ROTATED FROM 40 DEG. TO 31 DEG. AND BACK TO 40 DEG.	
12.000 ACCELERATION FLOW (START DERICHMENT UNIT BLANKED OFF AT TPT 12.010, 12.020)															
.010	60	40	14.7	600	200	115	35		40						
.020	"	"	16.5	1000	350	119	40		46						
.030	"	"	22	1700	625	130	60		68						
.040	"	31	"	"	"	"	-2.0		+2.0					FLOW DIFFERENCE FROM TPT 12.030.	
.04A	60	40	22	1700	625	251	-3.0		+3.0					FLOW DIFFERENCE FROM TPT 12.030.	
.050	70	40	29	2200	820	151	86		96						
.060	"	MAX	33	2400	900	165	101		111						
.070	"	"	41	2700	1000	189	126		136						
.080	"	"	56	3100	1200	251	174		184						
.090	"	"	70	3400	1300	295	219		229						
.100	"	"	82	3600	1400	347	260		266					P1-P2 26-35 INCHES HG. PC-PX 13.2-14.8 INCHES HG.	
.110	"	"	100	3900	1500	430	314		324						
.120	"	"	106	4000	1600	456	333		343						

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PHR	PD PSIG	NOZZLE MIN	FLOW RCD	PHR MAX	P1-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG						
13.000 METERING VALVE MAXIMUM STOP ADJUSTMENT																			
.010	70	MAX	120	4200	1650	410	285		290					P2-PD MUST BE 35 PSI MAX.					
.020	"	"	140	"	1700	535	343		348										
14.000 METERING VALVE HYSTERESIS CHECK																			
.010	70	MAX	82*	3600*	1400	347	-5		+10					HYSTERESIS DIFFERENCE FROM TPT 12.100. HYSTERESIS DIFFERENCE FROM TPT 12.090. HYSTERESIS DIFFERENCE FROM TPT 12.030.					
.020	"	"	70*	3400*	1300	295	-5		+10										
.030	60	40	22*	1700*	525	130	-5		+7										
15.000 START - ACCEL SCHEDULE ADJUSTER CHECK														FOR PARA 15.000 - PC IS TO BE ADJUSTED AFTER POSITIONING THE ACCEL ADJUSTER.					
.010	60	40	22	1700	625	130	X		X					ADJUSTER TO BE TURNED TO CW STOP. DIFFERENCE FROM TPT 15.010. RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP ADJUSTER TO BE TURNED TO CCW STOP. DIFFERENCE FROM TPT 15.030. RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP					
.020	"	"	"	"	"	"	+7.5		+11.5										
.030	"	"	"	"	"	"	X		X										
.040	"	"	"	"	"	"	-8.0		-4.0										
.050	"	"	"	"	"	"	60		68										

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PHR	PD PSIG	NOZZLE MIN	FLOW RCD	PHR MAX	P1-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG						
16.000 MANUAL START ACCELERATION FLOW (START DERICHMENT UNIT BLANKED OFF)														RECORD P2-P0 PSI.					
.010	65	16	16.5	1000	350	119								(FLOW DIFFERENCE FROM TPT 16.010) 6					
.020	"	40	"	"	"	"													
.030	"	21	"	"	"	"								(FLOW DIFFERENCE FROM TPT 16.030) 2.4					
.040	"	40	"	"	"	"													
17.000 PR-PG VALVE (SET 10 PSIG AHEAD OF A #80 P/N 392502 BLEED FOR TPT 17.010 THRU 17.050.)																			
.010	0		LOCAL 0	0	0	0	RETARD THROTTLE TO OBTAIN 20 INCHES KEROSENE DROP. THROTTLE ANGLE MUST BE 48 1/2 - 49 1/2 DEGREES.												
.020	"	MAX	"	"	"	"	PR LEAKAGE 0 INCHES KEROSENE.												
.030	"	"	"	"	"	"	PG LEAKAGE (PR PORT PLUGGED) 0 INCHES KEROSENE.												
.040	"	40	"	"	"	"	PR TO PG FLOW MINIMUM.												
.050	"	"	50	"	"	"	PG CHANNELING CHECK. 0 INCHES HG PC-PY. (PG PORT PLUGGED)												
18.000 GOVERNOR RESET CHECK																			
.010	70	MAX	84	3630	1400	180	155		165					PR-PA INCHES HG MIN RCD MAX 5.8 7.8 11.3 13.3 *-0.3 HYSTERESIS DIFF. FROM TPT 18.010					
.020	"	"	40	2690	1000	122	54		62										
.030	"	"	84	3630	1400	180	SAME		AS										
19.000 PY ORFICE LEAK CHECK																			
.010	0	MAX	50	0	0	0	0 INCHES HG PC-PY.												
20.000 BLEED SIZES																			
.010	RECORD PX BLEED					#					AFTER FINAL CALIBRATION								
.020	PY					#					" " "								

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21.000 EXTERNAL LEAKAGE CHECK
 .010 SET PI PRESSURE AT 1000 PSIG.
 .020 OBSERVE FOR LEAKAGE - NONE PERMITTED OK ☐ REJ.
 .030 INSTALL BELLOWS RATIO LEVER COVER AND O-RING.

22.000 PNEUMATIC LEAK TEST
 .010 SET DRIVE SPEED TO 0 RPM.
 .020 CAP PY FITTING.
 .030 APPLY 100 PSIA PC PRESSURE.
 .040 USE LEAK TEST SOLUTION TO CHECK FOR IMMEDIATE LEAKAGE IN THE FOLLOWING AREAS:
 BELLOWS PX RATIO COVER-TORQUE TUBE BEARING COVER-PC FILTER FITTING-PY FILTER FITTING.
 OK ☐ REJ

23.000 ADJUSTMENTS AND QUADRANT SCRIBING
 .010 ALL ADJUSTMENTS HAVE BEEN TORQUED TO SPECIFIED VALUES, AND THE MAXIMUM FLOW STOP
 QUADRANT HAS BEEN SCRIBED IN THE HI LOCATION. ☐ OPERATOR STAMP.

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CROSS REFERENCE IDENTIFICATION OF BENDIX TEST SPECIFICATION
 TEST POINTS WITH ALLISON GAS TURBINE DIVISION EDS 1679S
 ACCEPTANCE TEST.

A.G.T.D. EDS 1679S		BENDIX TEST SPECIFICATION
PARA NO.	POINT NO.	TEST POINT NO.
4.3.1		5.06
4.3.3		5.05
4.3.4		5.05
4.3.5		5.04/5.02
4.3.6		5.03
4.3.7		5.01
4.4.1		7.01
4.5		1.01
4.6.1		2.01
4.6.2		2.02
4.7	1	12.01
4.7	2	12.02
4.7	3	12.03
4.7	4	12.05
4.7	5	12.06
4.7	6	12.07
4.7	7	12.08
4.7	8	12.09
4.7	9	12.10
4.7	10	12.11
4.7	11	12.12
4.7	12	13.01
4.7	14	13.02
4.7	15	14.01
4.7	16	14.02
4.7	17	14.03

