

	REGISTRO RECORD	REVISÃO REVISION 02
CODIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS Service Sheet	PAGINA PAGE 1/21

COMPONENTE Component	O.S W.O	MODELO Model	PN	SN
FUEL CONTROL UNIT		DP-V1 Governor and Gas Turbine Fuel Control		

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	73-20-12	TLN02156	May 22, 2015 Temporary Revision 73-21
CONJUNTO MAIOR MAIN PART			
		PN	SN

TESTE APLICÁVEL AOS PART NUMBERS TEST APPLICABLE TO PART NUMBERS			
2549092-5 (23065147)	2549092-6 (23070613)	2549092-7 (23070613)	2549092-8 (23087146)
2549092-9			

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.A	Monte o controle no suporte usando o acessório de montagem do suporte de calibração (PN 2550136) e adaptador estriado (PN 2550139). <i>Mount the control on the stand using the (PN 2550136) Calibration Stand Mounting Fixture and (PN 2550139) Spline Adapter.</i>			
3.B	Instale o encaixe de Pressão PX (PN 2557067) no lugar da tampa da alavanca do fole. Use um packing equivalente com uma conexão. <i>Install the (PN 2557067) PX Pressure Fitting to the main body assembly over the bellows ratio lever. Use a packing equivalent with a fitting.</i>			
3.C	Instale o Quadrante de Aceleração (PN 2550944) na extremidade do eixo de aceleração. Gire o quadrante para ler 40 graus e em seguida fixe o quadrante ao eixo. Remova o pino de amarração e então gire o eixo de aceleração até ter contato com o parafuso de ajuste de paragem mínima. Ajuste o parafuso limitador até que o quadrante leia 0 graus. <i>Install the (PN 2550944) Throttle Quadrant on the end of the throttle shaft. Rotate the quadrant to read 40 degrees at the fixture pointer, then secure the quadrant to the shaft. Remove the rigging pin, then rotate the throttle shaft until the stop lever assembly contacts the minimum stop setscrew. Adjust the stop screw until the quadrant reads 0 degrees.</i>			
5.E	As condições do teste devem ser estabilizadas de acordo com as seguintes tolerâncias: (1) Velocidade (RPM) ± 5 RPM (2) Suprimento de combustível (PPH) ± 1 PPH no intervalo de 0-99% $\pm 0.1\%$ PPH no intervalo de 100 ou maior. (3) Ângulo de aceleração (DEG.) ± 0.25 graus. (4) PC (psia absoluto) ± 0.10 psia. (5) Pressão PO dentro de 4 psig na <i>fuel control bypass tap</i> <i>Test conditions shall be established within the following tolerances:</i> (1) Speed (RPM) ± 5 RPM. (2) Fuel Supply (PPH) ± 1 PPH in the range 0-99 $\pm 0.1\%$ PPH in the range 100 or greater. (3) Throttle Angle (DEG.) ± 0.25 degree. (4) PC (psia absolute) ± 0.10 psia			

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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) Maintain PO pressure at 4 PSIG (27 kPa gage) at fuel control bypass tap.			
5.F.1	Faça um check inicial de todos os testes para uma função específica. Registre as respostas dos testes na ficha de serviço. <i>Make an initial check of all tests for a specific function. Record test responses on a worksheet.</i>			
5.F.2	Faça todos os ajustes necessários. <i>Make any needed adjustments.</i>			
5.F.3	Repita as checagens para as respostas requeridas e realize os ajustes necessários. <i>Repeat checks for required responses and make needed adjustments.</i>			
5.F.4	Verifique se todas as conexões do teste foram realizadas. <i>Visually verify all test connections are completed.</i>			

TESTE INICIAL INITIAL TEST	
PNs 2549092-5 (23065147); 2549092-6 (23070613); 2549092-7 (23070613); 2549092-8 (23087146); 2549092-9	

TEST SPECIFICATION

DATE: 18-JAN-93

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

	MODEL DP-V1	SERIAL NO.	(14-19)	12604 -01	(20-25)
OPERATOR	PARTS LIST	(1-13)	DATE	(32-37)	PAGE CODE

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SERVICE LIMITS

FLOW BENCH NO.

FUEL TEMPERATURE 85 DEG + 5 DEG BAROMETER

INCHES HG AT

DEG F

TEST POINT	PO	THROT	PC	SPEED	FUEL	PD	NOZZLE FLOW PPH	PI-PD	PI-P2	PC-PY	PC-PX
	PSIG	ANGLE	PSIA	RPM	SUPPLY	PSIG	MIN RCD MAX	PSI	"HG	"HG	"HG
		DEG			PPH						

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

.020

"

"

"

1800

RELIEF VALVE CAPACITY. PI-PO 930 PSI MAX.

.030

FUEL SUPPLY

105

PHR MAXIMUM AT 600 PSI PI USING TEST CONDITIONS OF TPT 2.010.

3.000 START DERICHMENT

	PC-PA	PC-PY	INCHES HG
	IN.HG.	MIN	RCD MAX

.010

0

MAX

5.2

0

0

0

1.3

1.6

MUST BE ADJUSTABLE TO PC-PY OF 1.3-1.6.

.020

"

"

6.5

0

"

0

0.0

0.7

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW MIN	PPH RCD	MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
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6.000 CUTOFF LEAKAGE AND OPENING

.010	15		LOCAL	0	ASREQ.	0							
.020	15		"	"	"	"							
.030	15	0	"	"	"	"	0		0				
.040	15	8	"	"	"	"	0		0				
.050	0		"	"	0	0							
.060	"	0	"	"	"	"							

(PI PRESSURE 100 PSIG) OPENING MUST BE 8-14 DEG. AT CONTROL OUTLET.
 (PI PRESSURE 100 PSIG) CUTOFF MUST BE 13-8 DEG. AT CONTROL OUTLET.
 (PI PRESSURE 100 PSIG)
 (PI PRESSURE 100 PSIG)
 INSERT THROTTLE RIG PIN. THROTTLE ANGLE MUST BE 39-41 DEG.
 CONTROL QUADRANT MUST READ 40 DEG.
 TEST FIXTURE QUADRANT MUST READ 0 DEG AND NUT ON ROD MUST HAVE .005-.010 CLEARANCE WITH THE SPACER.

8.000 PRESSURIZING VALVE LEAKAGE

.010	20	MAX	LOCAL	0	ASREQ.	0	0		0				

(PI PRESSURE 25 PSIG)

TEST SPECIFICATION DATE: 18-JAN-93
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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	FUEL SUPPLY PPH	SPEED RPM	PD PSIG	NOZZLE FLOW MIN	PPH RCD	MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
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10.000 MAXIMUM GOVERNOR SETTING (SET PR-PA AT 1.0 INCH HG FOR TPT 10.010 THRU 10.040)

.010	70		130	1700		420	420		430				
.020	"	"	"	"		270	300						
.030	"	"	"	"		200	230						
.040	"	"	"	"		* 420	SAME		AS				
							TPT 10.010						

MUST BE ADJ TO 4405-4460 RPM
 THROT ANGLE 94-100 DEG.
 RPM DIFF FROM TPT 10.010 MUST BE +150 +275 RPM
 RPM DIFF FROM TPT 10.010 MUST BE -86 +86 RPM.

11.000 IDLE GOVERNOR SETTING

.010	70	40	38	1000		150	87		90				
.020	"		"	"	"	"							
.030	"	31	"	"	"	"							
.040	"	40	"	"	2900	"							
.050	"	"	"	"		*	SAME		AS				
							11.010						

MUST BE ADJ TO 2600-2620 RPM
 CAM PICKUP ANGLE AT 4 PHR FLOW INCREASE FROM TPT 11.010 MUST BE 42-51 DEG.
 FLOW DIFF FROM TPT 11.010 MUST BE -4 +4 PPH.
 RECORD FLOW.
 RPM DIFF FROM TPT 11.010 MUST BE -63 +63 RPM.

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE MIN	FLOW RCD	PPH MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
12.000 <u>MIN FLOW CHECK</u> (PY VENTED TO ATMOSPHERE.)													
.010	70	40	36	2500	900	135	31.5		36.5				
													CHECK THAT FLOW REMAINS WITHIN LIMITS WHILE THROTTLE SHAFT IS ROTATED FROM 40 DEG TO 31 DEG AND BACK TO 40 DEG
13.000 <u>ACCELERATION FLOW</u> (START DERICHMENT UNIT BLANKED OFF AT TPT 13.010 THRU 13.02A)													
.010	60	40	14.7	600	200	116	41.5		54.5				
.01A	60	"	15.5	800	280	119	44		58				
.020	"	"	16.5	1000	350	122	49		64				
.02A	"	"	19	1400	510	129	60		76				
.030	"	"	22	1700	625	139	76		87				
.050	70	40	29	2200	820	162	99		117				
.060	"	MAX	33	2400	900	175	113		133				
.070	"	"	41	2700	1000	212	142		162				
.080	"	"	56	3100	1200	258	192		212				
.090	"	"	70	3400	1300	321	241		261				
.100	"	"	82	3600	1400	384	286		304				P1-P2 25-44 IN HG.
.110	"	"	100	3900	1500	485	351		375				
.111	"	"	100	4000	1600	485	353		375				
.114	"	"	100	4300	1650	543	387		413				
.115	"	"	100	4400	1700	543	XX		XX				PC-PX MUST BE X +4 IN HG FROM THAT RECORDED AT TPT 13.114.
.116	60	MAX	60	3900	1250	278	206		226				
.117	70	MAX	100	3900	1650	485	348		372				

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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE MIN	FLOW RCD	PPH MAX	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
14.000 <u>METERING VALVE MAXIMUM STOP ADJUSTMENT</u>													
.010	70	MAX	120	4200	1650	435	302		313				
.020	70	MAX	120	4200	1650	465	322		333				
.030	70	MAX	140	4200	1650	505	348		358				
.040	70	MAX	140	4200	1650	655	435		445				
													LOW MAX STOP INTERMEDIATE MAX STOP INTERMEDIATE MAX STOP P2-PD MUST BE 60 PSI MAX.
15.000 <u>METERING VALVE HYSTERESIS CHECK</u>													
.010	70	MAX	82*	3600*	1400	384	-10		+10				
.020	"	"	70*	3400*	1300	321	-10		+10				
.030	60	40	22*	1700*	625	139	-8		+8				
													HYST DIFF FROM TPT 13.100. HYST DIFF FROM TPT 13.090. HYST DIFF FROM TPT 13.030.
16.000 <u>START - ACCEL SCHEDULE ADJUSTER CHECK</u> FOR PARA 16.000 - PC IS TO BE ADJUSTED AFTER POSITIONING THE ACCEL ADJUSTER.													
.010	60	40	22	1700	625	139	X		X				
.020	"	"	"	"	"	"	+6.5		+12.5				
.030	"	"	"	"	"	"	X		X				
.040	"	"	"	"	"	"	-3.0		-9.0				
.050	"	"	"	"	"	"	76		87				
													ADJUSTER TO BE TURNED TO CW STOP. DIFF FROM TPT 16.010. RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP. ADJUSTER TO BE TURNED TO CCW STOP. DIFF FROM TPT 16.030. RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.
17.000 <u>MANUAL START ACCELERATION FLOW</u> (START DERICHMENT UNIT BLANKED OFF)													
.010	65	16	16.5	1000	350	122							
.020	"	40	"	"	"	"							
.030	"	21	"	"	"	"							
.040	"	40	"	"	"	"							
										RECORD P2-P0		PSI	
(FLOW DIFF FROM TPT 17.010)										5		PHR	
(FLOW DIFF FROM TPT 17.030)										1.4		PHR	

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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	
18.000 PR-PG VALVE (SET 10 PSIG AHEAD OF A #80 P/N 392502 BLEED FOR PARAGRAPH 18.000).														
.010	0		LOCAL	0	0	0	REDUCE THROTTLE ANGLE TO OBTAIN 20							40 IN. KEROSENE DROP ACROSS THE BLEED. THROTTLE ANGLE MUST BE 47-49 DEG.
.020	"	MAX	"	"	"	"	PR LEAKAGE MUST BE 0							4.0 IN. KEROSENE DROP ACROSS THE BLEED.
.030	"	"	"	"	"	"	PLUG PR PORT FOR TPT 18.030 ONLY. PG LEAKAGE MUST BE 0							7.0 IN. KEROSENE DROP ACROSS THE BLEED.
.040	"	40	"	"	"	"	PR TO PG FLOW MUST BE 16.3							X IN. HG. ACROSS THE BLEED.
19.000 GOVERNOR RESET CHECK														
							PR-PA INCHES HG							
.010	70	MAX	84	3630	1400	230	210	MIN	RCD	MAX				
.020	"	"	40	2690	1000	160	62	6.1		9.1				
.030	"	"	84	3630	1400	230	SAME	70	12.4	15.4				
TPT 19.010														
21.000 FUEL INLET BLEED FLOW														
.010	70	0	LOCAL	0	ASREQ. (PI PRESSURE 200 PSIG.) BLEED FLOW MUST BE 32									44 PPH (DROP ACROSS BLEED 200 PSI.)
23.000 EXTERNAL LEAKAGE CHECK														
.010 SET PI PRESSURE AT 1000 PSIG.														
.020 OBSERVE FOR LEAKAGE - NONE PERMITTED OK REJ.														
.030 REMOVE PX PRESSURE TAP ADAPTER AND INSTALL SCREEN ASSEMBLY. CHECK THAT BOTH O-RINGS ARE IN PLACE.														
24.000 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														

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TESTE FINAL | FINAL TEST

• PNs 2549092-5 (23065147); 2549092-6 (23070613); 2549092-7 (23070613);

Honeywell										TEST SPECIFICATION										SOUTH BEND, IN USA																													
ENGINE SYSTEMS & ACCESSORIES										FURNISHED UNDER CONTRACT NO.																																							
CAGE CODE NO: 06848										BENCH NO:										SERIAL NO:										MODEL: DP-V1										TEST SPEC NO. TS 13325									
OPERATOR NO:										PARTS LIST:										TEST SPEC TYPE: PRODUCTION										LATEST REV: -02																			
DATE RELEASED: 05-4-6										TEST DATE:										LATEST REV DATE: 05-5-18										PAGE NO: 1 OF 13																			

FINAL

FUEL TEMP 85 DEG ± 5 DEG
FLOW BENCH NO. _____ BAROMETER _____ INCHES HG AT _____ DEG F

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
							MIN RCD MAX					
1.000	THROTTLE TORQUE											
.010	0		LOCAL	0	0	0	MIN. TO MAX. TO MIN--12 POUND INCHES MAX.					
.020							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-P0		725		775 PSI	
.020	"	"	"	1800			RELIEF VALVE CAPACITY. PI-PO 900 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	"	"	6.5	0	"	0		1.3 1.6				
								0.0 0.5				
											LOCKING CLAMP MUST BE 1 1/2 2 1/2 TURNS OFF THE LOCKING NUT WHEN POINTER POSITION IS 70 ± 5 DEGREES FROM THE CCW STOP.	

Honeywell										TEST SPECIFICATION										SOUTH BEND, IN USA																													
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OPERATOR NO:										PARTS LIST:										TEST SPEC TYPE: PRODUCTION										LATEST REV: -02																			
DATE RELEASED: 05-4-6										TEST DATE:										LATEST REV DATE: 05-5-18										PAGE NO: 2 OF 13																			

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH	PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
							MIN RCD MAX					
4.000	NO BLEED METERING VALVE LINEARITY											
.010	70	40	20	0	510	132	61.5 65.5					
.020	70	MAX	120	0	1650	486	354.5 362.5					
											SET LIMIT WITH INITIAL P1-P2 = 31 TRIM TO LIMITS WITH P1-P2 HEAD, RECHECK TPT 4.010 AND RESET IF NECESSARY TO BRING TPT 4.010 AND 4.020 INTO LIMITS. PC-PY WITHIN 1.0 INCH HG OF TPT 4.010 PC-PX WITHIN 1.0 INCH HG OF TPT 4.010	
5.000	METERING VALVE LINEARITY											
.010							INSTALL PX BLEED COVER, SELECT PX BLEED TO MEET TPT 5.040					
.020	70	MAX	22	1700	625	70	78.0 81.0				ACCEL ADJUSTER MUST BE 3 CLICKS FROM CCW STOP. ADJ PRESSURIZING VALVE TO 60 80 PSI P2-P0	
.030	"	35	36	"	900	135	33.5 34.5				REMOVE PY LINE AND ADJUST MINIMUM METERING VALVE STOP.	
.040	"	MAX	82	"	1400	384	293 297				P1-P2 25-44 INCHES HG. PC-PY WITHIN 1.0 INCH HG OF TPT 5.020. PC-PX MUST BE 12.0 - 14.3 IN HG.	

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Honeywell										TEST SPECIFICATION									
ENGINE SYSTEMS & ACCESSORIES										SOUTH BEND, IN USA									
CAGE CODE NO: 06848					FURNISHED UNDER CONTRACT NO.														
BENCH NO:		SERIAL NO:		MODEL:		DP-V1		TEST SPEC NO.		TS 13325									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		-02									
DATE RELEASED: 05-4-6		TEST DATE:		LATEST REV DATE:		05-5-18		PAGE NO:		3 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
							MIN	RCD	MAX					
6.000 <u>CUTOFF LEAKAGE AND OPENING</u> (PRESSURIZING VALVE MUST BE SET TO PREVIOUS PARAGRAPH PRIOR TO RUNNING CUT-OFF)														
.010	15		LOCAL	0	ASREQ.	0								(PI PRESSURE 100 PSIG) OPENING MUST BE 10-14 DEG. AT CONTROL OUTLET.
.020	15		"	"	"	"								(PI PRESSURE 100 PSIG) CUTOFF MUST BE 13-10 DEG. AT CONTROL OUTLET.
.030	15	0	"	"	"	"	0		0					(PI PRESSURE 100 PSIG)
.040	15	10	"	"	"	"	0		0					(PI PRESSURE 100 PSIG)
.050	0		"	"	0	0								INSERT THROTTLE RIG PIN. THROTTLE ANGLE MUST BE 39-41 DEG.
.060	"	0	"	"	"	"								CONTROL QUADRANT MUST READ 40 DEG.
TEST FIXTURE QUADRANT MUST READ 0 DEG AND NUT ON ROD MUST HAVE .005-.010 CLEARANCE WITH THE SPACER.														
7.000 <u>CUTOFF MODULATION TIMING</u>														
.010	65	40	19	0	300	70	X		X					RECORD NOZZLE FLOW.
.020	"	16	"	"	"	"	X		X					FUEL FLOW DIFFERENCE FROM TPT 7.010 MUST BE -5.7 -7.7 PPH. ADJUST PRESSURIZING VALVE TO 60 80 PSI P2-P0 TO MEET LIMITS.
.030	"	21	"	"	"	80	X		X					PC-PY MUST BE 0 0.5 INCH HG.
.040	60	31	"	"	"	135	X		X					FUEL FLOW DIFFERENCE FROM TPT 7.010 MUST BE -2.4 -4.4 PPH.
														FUEL FLOW DIFFERENCE FROM TPT 7.010 MUST BE -1.0 +1.0 PPH
8.000 <u>PRESSURIZING VALVE LEAKAGE</u>														
.010	20	MAX	LOCAL	0	ASREQ.	0	0		0					(PI PRESSURE 25 PSIG)

Honeywell										TEST SPECIFICATION									
ENGINE SYSTEMS & ACCESSORIES										SOUTH BEND, IN USA									
CAGE CODE NO: 06848					FURNISHED UNDER CONTRACT NO.														
BENCH NO:		SERIAL NO:		MODEL:		DP-V1		TEST SPEC NO.		TS 13325									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		-02									
DATE RELEASED: 05-4-6		TEST DATE:		LATEST REV DATE:		05-5-18		PAGE NO:		4 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
							MIN	RCD	MAX					
9.000 <u>SECONDARY ENRICHMENT SETTING AND MAX GOVERNOR PRESET</u>														
.010	70	MAX	100	4100	1600	500	372		384					ADJ ENRICH SPRING
.020	70	"	130		1700	420	420		430					RPM LIMIT 4425-4450
														THROTTLE ANGLE 94-100 DEG.
.030	70	"	100	4100	1600	500	372		384					TRIM ENRICH TO LIMITS SET SPEED FROM 3500 RPM.

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Honeywell										TEST SPECIFICATION										SOUTH BEND, IN USA																			
ENGINE SYSTEMS & ACCESSORIES																																							
CAGE CODE NO: 06848										FURNISHED UNDER CONTRACT NO.																													
BENCH NO:										SERIAL NO:										MODEL: DP-V1										TEST SPEC NO. TS 13325									
OPERATOR NO:										PARTS LIST:										TEST SPEC TYPE: PRODUCTION										LATEST REV: -02									
DATE RELEASED: 05-4-6										TEST DATE:										LATEST REV DATE: 05-5-18										PAGE NO: 5 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSI A	FUEL SUPPLY PPH	SPEED RPM	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG															
							MIN	RCD	MAX																			
10.000	MAXIMUM GOVERNOR SETTING														(SET PR-PA AT 1.0 INCH HG FOR TPT 10.010 THRU 10.040)													
.010	70		130	1700		420	420		430						RPM LIMIT 4425 - 4450 THROT ANGLE 94-100 DEG.													
.020	"	"	"	"		270		300							RPM DIFF FROM TPT 10.010 MUST BE													
.030	"	"	"	"		200		230							+172 +234 RPM													
.040	"	"	"	"		* 420	SAME TPT		AS						RPM DIFF FROM TPT 10.010 MUST BE -43 +43 RPM													
11.000	IDLE GOVERNOR SETTING																											
.010	70	40	38	1000		150	87		90						RPM LIMIT 2600-2620 CAM PICKUP ANGLE AT 4 PHR FLOW INCREASE FROM TPT 11.010 MUST BE 44-49 DEG.													
.020	"		"	"	"	"									FLOW DIFF FROM TPT 11.010 MUST BE -3 +3 PPH.													
.030	"	31	"	"	"	"									RECORD FLOW.													
.040	"	40	"	"	2900	"									RPM DIFF FROM TPT 11.010 MUST BE													
.050	"	"	"	"		* "	SAME		AS						-43 +43 RPM.													
								11.010																				

Honeywell										TEST SPECIFICATION										SOUTH BEND, IN USA																			
ENGINE SYSTEMS & ACCESSORIES																																							
CAGE CODE NO: 06848										FURNISHED UNDER CONTRACT NO.																													
BENCH NO:										SERIAL NO:										MODEL: DP-V1										TEST SPEC NO. TS 13325									
OPERATOR NO:										PARTS LIST:										TEST SPEC TYPE: PRODUCTION										LATEST REV: -02									
DATE RELEASED: 05-4-6										TEST DATE:										LATEST REV DATE: 05-5-18										PAGE NO: 6 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG															
							MIN	RCD	MAX																			
12.000	MIN FLOW CHECK														(START DERICHMENT UNIT BLANKED OFF AND PY VENTED TO ATMOSPHERE FOR TPT 12.010 ONLY.)													
.010	70	40	36	2500	900	135	33		35						CHECK THAT FLOW REMAINS WITHIN LIMITS WHILE THROTTLE SHAFT IS ROTATED FROM 40 DEG. TO 31 DEG AND BACK TO 40 DEG													
.020	NOTE: CYCLE Pc PRESSURE FROM AMBIENT TO 120 PSIA FIVE (5) TIMES AFTER COMPLETION OF TPT 12.010.																											

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TEST POINT		PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
								MIN	RCD	MAX				
Honeywell														
TEST SPECIFICATION														
ENGINE SYSTEMS & ACCESSORIES SOUTH BEND, IN USA														
CAGE CODE NO:		06848					FURNISHED UNDER CONTRACT NO.							
BENCH NO:		SERIAL NO:		MODEL:		DP-V1		TEST SPEC NO:		TS 13325				
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		-02				
DATE RELEASED:		05-4-6		TEST DATE:		LATEST REV DATE:		05-5-18		PAGE NO:		7 OF 13		
13.000 <u>ACCELERATION FLOW</u> (START DERICHMENT UNIT BLANKED OFF AT TPT 13.010 THRU 13.02A)														
.010	60	40	14.7	600	200	116	45.5		51.0					
.01A	60	"	15.5	800	280	119	48		54					
.020	"	"	16.5	1000	350	122	53		60					
.02A	"	"	19	1400	510	129	64		72					
.030	"	"	22	1700	625	139	77		82					
.040	"	31	"	"	"	"	-2.0		+2.0					
.04A	"	40	"	"	"	187	-3.0		+3.0					
.050	70	40	29	2200	820	162	101		113					
.060	"	MAX	33	2400	900	175	116		128					
.070	"	"	41	2700	1000	212	145		157					
.080	"	"	56	3100	1200	258	195		207					
.090	"	"	70	3400	1300	321	244		256					
.100	"	"	82	3600	1400	384	292		298					
.110	"	"	100	3900	1500	485	357		371					
.111	"	"	100	4000	1600	485	357		371					
.112	"	"	100	4100	1600	500	368		386					
.113	"	"	100	4200	1650	535	385		400					
.114	"	"	100	4300	1650	543	393		410					
.115	"	"	100	4400	1700	543	XX		XX					
.116	60	MAX	60	3900	1250	278	209		221					
.117	70	MAX	100	3900	1650	485	352		370					

FLOW DIFF FROM TPT 13.030.
FLOW DIFF FROM TPT 13.030.

P1-P2 25-44 IN HG.

PC-PX MUST BE X +4 IN HG FROM THAT RECORDED AT TPT 13.114.

TEST POINT		PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
								MIN	RCD	MAX				
Honeywell														
TEST SPECIFICATION														
ENGINE SYSTEMS & ACCESSORIES SOUTH BEND, IN USA														
CAGE CODE NO:		06848					FURNISHED UNDER CONTRACT NO.							
BENCH NO:		SERIAL NO:		MODEL:		DP-V1		TEST SPEC NO:		TS 13325				
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		-02				
DATE RELEASED:		05-4-6		TEST DATE:		LATEST REV DATE:		05-5-18		PAGE NO:		8 OF 13		
14.000 <u>METERING VALVE MAXIMUM STOP ADJUSTMENT</u>														
.010	70	MAX	120	4200	1650	435	305		310					
.020	70	MAX	120	4200	1650	465	325		330					
.030	70	MAX	140	4200	1650	505	350		356					
.040	70	MAX	140	4200	1650	655	437		443					
15.000 <u>METERING VALVE HYSTERESIS CHECK</u>														
.010	70	MAX	82*	3600*	1400	384	-5		+10					
.020	"	"	70*	3400*	1300	321	-5		+10					
.030	60	40	22*	1700*	625	139	-5		+7					
.040	"	"	14.7*	600*	200	116	X		X					
16.000 <u>START - ACCEL SCHEDULE ADJUSTER CHECK</u>														
FOR PARA 16.000 - PC IS TO BE ADJUSTED AFTER POSITIONING THE ACCEL ADJUSTER.														
.010	60	40	22	1700	625	139	X		X					
.020	"	"	"	"	"	"	+7.5		+11.5					
.030	"	"	"	"	"	"	X		X					
.040	"	"	"	"	"	"	-4.0		-8.0					
.050	"	"	"	"	"	"	77		82					

HYST DIFF FROM TPT 13.100.
HYST DIFF FROM TPT 13.090.
HYST DIFF FROM TPT 13.030.
HYST DIFF FROM TPT 13.010.

P2-PD MUST BE 55 PSI MAX.

ADJUSTER TO BE TURNED TO CW STOP. DIFF FROM TPT 16.010.
RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.
ADJUSTER TO BE TURNED TO CCW STOP. DIFF FROM TPT 16.030.
RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.

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Honeywell										TEST SPECIFICATION										SOUTH BEND, IN USA									
ENGINE SYSTEMS & ACCESSORIES										FURNISHED UNDER CONTRACT NO.										TEST SPEC NO. TS 13325									
CAGE CODE NO: 06848										MODEL: DP-V1										TEST SPEC NO. TS 13325									
BENCH NO:										SERIAL NO:										TEST SPEC TYPE: PRODUCTION									
OPERATOR NO:										PARTS LIST:										LATEST REV: -02									
DATE RELEASED: 05-4-6										TEST DATE:										LATEST REV DATE: 05-5-18									
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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
17.000 <u>MANUAL START ACCELERATION FLOW</u> (START DERICHMENT UNIT BLANKED OFF)													
.010	65	16	16.5	1000	350	128							
.020	"	40	"	"	"	"							
.030	"	21	"	"	"	"							
.040	"	40	"	"	"	"							
(FLOW DIFF FROM TPT 17.010) 6 8 PSI (FLOW DIFF FROM TPT 17.030 2.4 4.4 PHR													
18.000 <u>PR-PG VALVE</u> (SET 10 PSIG AHEAD OF A #80 P/N 392502 BLEED FOR PARAGRAPH 18.000).													
.010	0		LOCAL	0	0	0	REDUCE THROTTLE ANGLE TO OBTAIN 20 40 IN. KEROSENE DROP ACROSS THE BLEED. THROTTLE ANGLE MUST BE 48 1/2 DEGREES.						
.020	"	MAX	"	"	"	"	PR LEAKAGE MUST BE 0 2.5 IN. KEROSENE DROP ACROSS THE BLEED.						
.030	"	"	"	"	"	"	PLUG PR PORT FOR TPT 18.030 ONLY. PG LEAKAGE MUST BE 0 5.5 IN. KEROSENE DROP ACROSS THE BLEED.						
.040	"	40	"	"	"	"	PR TO PG FLOW MUST BE 16.3 X IN. HG. ACROSS THE BLEED.						
.050	"	"	50	"	"	"	PLUG PG PORT FOR TPT 18.050 ONLY. PG CHANNELING CHECK. PC-PY MUST BE 0 2.0 IN. HG.						
19.000 <u>GOVERNOR RESET CHECK</u>													
.010	70	MAX	84	3630	1400	230	210		220	MIN	RCD	MAX	
.020	"	"	40	2690	1000	160	62		70	6.6		8.6	
.030	"	"	84	3630	1400	230	SAME		AS	12.9		14.9	
TPT 19.010 AS -0.3 +0.3 HYST DIFF FROM TPT 19.010.													

Honeywell										TEST SPECIFICATION										SOUTH BEND, IN USA									
ENGINE SYSTEMS & ACCESSORIES										FURNISHED UNDER CONTRACT NO.										TEST SPEC NO. TS 13325									
CAGE CODE NO: 06848										MODEL: DP-V1										TEST SPEC NO. TS 13325									
BENCH NO:										SERIAL NO:										TEST SPEC TYPE: PRODUCTION									
OPERATOR NO:										PARTS LIST:										LATEST REV: -02									
DATE RELEASED: 05-4-6										TEST DATE:										LATEST REV DATE: 05-5-18									
																				PAGE NO: 10 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
20.000 <u>PY ORIFICE LEAK CHECK AND PX COVER FLOW CHECK</u>													
.010	0	MAX	50	0	0	0							
.020	REMOVE PX PRESSURE TAP ADAPTER AND INSTALL SCREEN ASSEMBLY.												
.030	70	MAX	82	3600	1400	384	292		298				
21.000 <u>FUEL INLET BLEED FLOW</u>													
.010	70	0	LOCAL	0	ASREQ.	(P1 PRESSURE 200 PSIG.) BLEED FLOW MUST BE 34 42 PPH (DROP ACROSS BLEED 200 PSI.)							
22.000 <u>BLEED SIZES</u>													
.010	RECORD PX BLEED # AFTER FINAL CALIBRATION												
.020	RECORD PY BLEED # " " "												
23.000 <u>EXTERNAL LEAKAGE CHECK</u>													
.010	SET P1 PRESSURE AT 1000 PSIG.												
.020	OBSERVE FOR LEAKAGE - NONE PERMITTED OK REJ.												
24.000 <u>PNEUMATIC LEAK TEST</u>													
.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												
25.000 <u>ADJUSTMENTS AND QUADRANT SCRIBING</u>													
.010	ALL ADJUSTMENTS HAVE BEEN TORQUED TO SPECIFIED VALUES, AND THE MAXIMUM FLOW STOP QUADRANT HAS BEEN SCRIBED AT THE HI AND TWO (2) INTERMEDIATE LOCATIONS. OPERATING STAMP												

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Honeywell		TEST SPECIFICATION				SOUTH BEND, IN USA	
ENGINE SYSTEMS & ACCESSORIES							
CAGE CODE NO:	06848	FURNISHED UNDER CONTRACT NO.					
BENCH NO:		SERIAL NO:		MODEL:	DP-V1	TEST SPEC NO.	TS 13325
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:	PRODUCTION	LATEST REV:	-02
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CROSS REFERENCE IDENTIFICATION OF HONEYWELL TEST SPECIFICATION TEST POINTS WITH ROLLS-ROYCE 3145C ACCEPTANCE TEST.

ROLLS-ROYCE EDS 3145C		HONEYWELL TEST SPECIFICATION
PARA. NO.	POINT NO.	TEST PONT NO.
4.3.3	-	6.050
4.3.4	-	6.050
4.3.5	-	6.040/6.020
4.3.6	-	6.030
4.3.7	-	6.010
4.4.1	-	8.010
4.5	-	1.010
4.6.1	-	2.010
4.6.2	-	2.020
4.6.3	-	2.030
4.7	1	13.010
4.7	1.1	13.01A
4.7	2	13.020
4.7	2.1	13.02A
4.7	3	13.030
4.7	4	13.050
4.7	5	13.060
4.7	6	13.070
4.7	7	13.080
4.7	8	13.090
4.7	9	13.100
4.7	10	13.110
4.7	11	13.111
4.7	12	13.113
4.7	13	13.114
4.7	14	13.115

Honeywell		TEST SPECIFICATION				SOUTH BEND, IN USA	
ENGINE SYSTEMS & ACCESSORIES							
CAGE CODE NO:	06848	FURNISHED UNDER CONTRACT NO.					
BENCH NO:		SERIAL NO:		MODEL:	DP-V1	TEST SPEC NO.	TS 13325
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:	PRODUCTION	LATEST REV:	-02
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CROSS REFERENCE IDENTIFICATION OF HONEYWELL TEST SPECIFICATION TEST POINTS WITH ROLLS-ROYCE 3145C ACCEPTANCE TEST.

ROLLS-ROYCE EDS 3145C		HONEYWELL TEST SPECIFICATION
PARA. NO.	POINT NO.	TEST PONT NO.
4.7	15	14.010
4.7	16	14.020
4.7	17	14.030
4.7	18	15.010
4.7	19	15.020
4.7	20	15.030
4.7	23	13.116
4.7	22	13.117
4.7.1	2	17.020
4.7.1	6	17.040
4.7.2	1	3.010
4.7.2	2	3.020
4.8	1	10.010
4.8	2	10.020
4.8	3	10.030
4.8	4	10.040
4.9	1	11.010
4.9	2	11.020
4.9	3	11.030
4.9	4	11.040
4.9	5	11.050
4.9	6	12.010

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Honeywell ENGINE SYSTEMS & ACCESSORIES		TEST SPECIFICATION		SOUTH BEND, IN USA	
CAGE CODE NO:	06848	FURNISHED UNDER CONTRACT NO.			
BENCH NO:		SERIAL NO:		MODEL:	DP-V1
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:	PRODUCTION
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CROSS REFERENCE IDENTIFICATION OF HONEYWELL TEST SPECIFICATION TEST POINTS WITH ROLLS-ROYCE 3145C ACCEPTANCE TEST.

ROLLS-ROYCE EDS 3145C		HONEYWELL TEST SPECIFICATION
PARA. NO.	POINT NO.	TEST PONT NO.
4.10	1	19.010
4.10	2	19.020
4.10	3	19.030
4.11.1	1	18.040
4.11.1	2	18.010
4.11.1	3	18.020
4.11.2	1	18.030
4.12	-	23.000
4.13	1	13.030
4.13	2	13.040
4.14.1	-	21.010
4.15	1	16.020/16.040

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PNs 2549092-8 (23087146); 2549092-9

Honeywell		TEST SPECIFICATION		SOUTH BEND, IN USA	
ENGINE SYSTEMS & ACCESSORIES				FURNISHED UNDER CONTRACT NO.	
CAGE CODE NO:	06848				
BENCH NO:	SERIAL NO:	MODEL:	DP-VI	TEST SPEC NO.	TS 13428
OPERATOR NO:	PARTS LIST:	TEST SPEC TYPE:	PRODUCTION	LATEST REV:	1
DATE RELEASED:	TEST DATE:	LATEST REV DATE:	08-03-05	PAGE NO:	1 OF 13

FINAL

FUEL TEMP 85 DEG ± 5 DEG
 FLOW BENCH NO. _____ BAROMETER _____ INCHES HG AT _____ DEG F

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
1.000 <u>THROTTLE TORQUE</u>													
.010	0		LOCAL	0	0	0	MIN. TO MAX. TO MIN--12 POUND INCHES MAX.						
.020							CHECK BY-PASS COVER SCREWS TORQUE 19						21 LB-IN
2.000 <u>RELIEF VALVE OPERATION</u>													
.010	0 TO MAX		130	0	175-250		RELIEF VALVE OPENING. PI-P0				725		775 PSI
.020	"	"	"	"	1800		RELIEF VALVE CAPACITY. PI-P0 900 PSI MAX.						
.030	<u>FUEL SUPPLY</u>						105 PPH MAXIMUM AT 600 PSI PI USING TEST CONDITIONS OF TPT 2.010.						
3.000 <u>START DERICHMENT</u>													
			PC-PA IN. HG.				PC-PY INCHES HG						
.010	0	MAX	5.2	0	0	0	MIN RCD MAX			1.3		1.6	LOCKING CLAMP MUST BE 1 1/2 2 1/2 TURNS OFF THE LOCKING NUT WHEN POINTER POSITION IS 70 ± 5 DEGREES FROM THE CCW STOP.
.020	"	"	6.5	0	"	0				0.0		0.5	

Honeywell		TEST SPECIFICATION		SOUTH BEND, IN USA	
ENGINE SYSTEMS & ACCESSORIES				FURNISHED UNDER CONTRACT NO.	
CAGE CODE NO:	06848				
BENCH NO:	SERIAL NO:	MODEL:	DP-VI	TEST SPEC NO.	TS 13428
OPERATOR NO:	PARTS LIST:	TEST SPEC TYPE:	PRODUCTION	LATEST REV:	1
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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
4.000 <u>NO BLEED METERING VALVE LINEARITY</u>													
.010	70	40	20	0	510	132	61.5		65.5				SET LIMIT WITH INITIAL P1-P2 = 31 TRIM TO LIMITS WITH P1-P2 HEAD, RECHECK TPT 4.010 AND RESET IF NECESSARY TO BRING TPT 4.010 AND 4.020 INTO LIMITS.
.020	70	MAX	120	0	1650	486	354.5		362.5				
5.000 <u>METERING VALVE LINEARITY.</u>													
INSTALL PX BLEED COVER, SELECT PX BLEED TO MEET TPT 5.040													
.010	ACCEL ADJUSTER MUST BE 3 CLICKS FROM CCW STOP.												
.020	70	MAX	22	1700	625	70	78.0		81.0				ADJ PRESSURIZING VALVE TO 60 80 PSI P2-P0
.030	"	35	36	"	900	135	33.5		34.5	REMOVE PY LINE AND ADJUST MINIMUM METERING VALVE STOP.			
.040	"	MAX	82	"	1400	384	293		297	P1-P2 25-44 INCHES HG. PC-PY WITHIN 1.0 INCH HG OF TPT 5.020. PC-PX MUST BE 12.0 - 14.3 IN HG.			

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Honeywell										TEST SPECIFICATION									
ENGINE SYSTEMS & ACCESSORIES										SOUTH BEND, IN USA									
CAGE CODE NO: 06848					FURNISHED UNDER CONTRACT NO.														
BENCH NO:		SERIAL NO:		MODEL:		DP-VI		TEST SPEC NO.		TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		1									
DATE RELEASED: *		TEST DATE:		LATEST REV DATE:		08-03-05		PAGE NO:		3 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
6.000 <u>CUTOFF LEAKAGE AND OPENING</u> (PRESSURIZING VALVE MUST BE SET TO PREVIOUS PARAGRAPH PRIOR TO RUNNING CUT-OFF)													
.010	15		LOCAL	0	ASREQ.	0							
(PI PRESSURE 100 PSIG) OPENING MUST BE 10-14 DEG. AT CONTROL OUTLET.													
.020	15		"	"	"	"							
(PI PRESSURE 100 PSIG) CUTOFF MUST BE 13-10 DEG. AT CONTROL OUTLET.													
.030	15	0	"	"	"	"	0		0				
.040	15	10	"	"	"	"	0		0				
.050	0		"	"	0	0							
(PI PRESSURE 100 PSIG)													
INSERT THROTTLE RIG PIN. THROTTLE ANGLE MUST BE 39-41 DEG.													
.060	"	0	"	"	"	"							
CONTROL QUADRANT MUST READ 40 DEG.													
TEST FIXTURE QUADRANT MUST READ 0 DEG AND NUT ON ROD MUST HAVE .005-.010 CLEARANCE WITH THE SPACER.													
7.000 <u>CUTOFF MODULATION TIMING</u>													
.010	65	40	19	0	300	70	X		X				
RECORD NOZZLE FLOW.													
.020	"	16	"	"	"	"	X		X				
FUEL FLOW DIFFERENCE FROM TPT 7.010 MUST BE -5.7 -7.7 PPH. ADJUST PRESSURIZING VALVE TO 60 80 PSI P2-P0 TO MEET LIMITS.													
.030	"	21	"	"	"	80	X		X				
PC-PY MUST BE 0 0.5 INCH HG.													
.040	60	31	"	"	"	135	X		X				
FUEL FLOW DIFFERENCE FROM TPT 7.010 MUST BE -2.4 -4.4 PPH.													
FUEL FLOW DIFFERENCE FROM TPT 7.010 MUST BE -1.0 +1.0 PPH													
8.000 <u>PRESSURIZING VALVE LEAKAGE</u>													
.010	20	MAX	LOCAL	0	ASREQ.	0	0		0				
(PI PRESSURE 25 PSIG)													

Honeywell										TEST SPECIFICATION									
ENGINE SYSTEMS & ACCESSORIES										SOUTH BEND, IN USA									
CAGE CODE NO: 06848					FURNISHED UNDER CONTRACT NO.														
BENCH NO:		SERIAL NO:		MODEL:		DP-VI		TEST SPEC NO.		TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		1									
DATE RELEASED: *		TEST DATE:		LATEST REV DATE:		08-03-05		PAGE NO:		4 OF 13									

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
9.000 <u>SECONDARY ENRICHMENT SETTING AND MAX GOVERNOR PRESET</u>													
.010	70	MAX	100	4100	1600	500	372		384				
.020	70	"	130		1700	420	420		430				
ADJ ENRICH SPRING RPM LIMIT 4425-4450													
THROTTLE ANGLE 94-100 DEG.													
.030	70	"	100	4100	1600	500	372		384				
TRIM ENRICH TO LIMITS SET SPEED FROM 3500 RPM.													

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Honeywell		TEST SPECIFICATION										SOUTH BEND, IN USA					
ENGINE SYSTEMS & ACCESSORIES														FURNISHED UNDER CONTRACT NO.			
CAGE CODE NO: 06848		BENCH NO:		SERIAL NO:		MODEL: DP-VI		TEST SPEC NO. TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE: PRODUCTION		LATEST REV: 1											
DATE RELEASED: *		TEST DATE:		LATEST REV DATE: 08-03-05		PAGE NO: 5 OF 13											

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSI A	FUEL SUPPLY PPH	SPEED RPM	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
							MIN	RCD	MAX					
10.000	MAXIMUM GOVERNOR SETTING (SET PR-PA AT 1.0 INCH HG FOR TPT 10.010 THRU 10.040)													
.010	70		130	1700		420	420		430					RPM LIMIT 4425 - 4450 THROT ANGLE 94-100 DEG.
.020	"	"	"	"		270		300						RPM DIFF FROM TPT 10.010 MUST BE +172
.030	"	"	"	"		200		230						RPM DIFF FROM TPT 10.010 MUST BE +234 RPM
.040	"	"	"	"		* 420	SAME TPT 10.010		AS					RPM DIFF FROM TPT 10.010 MUST BE -43
11.000	IDLE GOVERNOR SETTING													
.010	70	40	38	1000		150	87		90					RPM LIMIT 2600-2620 CAM PICKUP ANGLE AT 4 PHR FLOW INCREASE FROM TPT 11.010 MUST BE 44-49 DEG.
.020	"		"	"	"	"								FLOW DIFF FROM TPT 11.010 MUST BE -3
.030	"	31	"	"	"	"								+3 PPH. RECORD FLOW. RPM DIFF FROM TPT 11.010 MUST BE -43
.040	"	40	"	"	2900	"	SAME		AS					+43 RPM.
.050	"	"	"	"		"		11.010						

Honeywell		TEST SPECIFICATION										SOUTH BEND, IN USA					
ENGINE SYSTEMS & ACCESSORIES														FURNISHED UNDER CONTRACT NO.			
CAGE CODE NO: 06848		BENCH NO:		SERIAL NO:		MODEL: DP-VI		TEST SPEC NO. TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE: PRODUCTION		LATEST REV: 1											
DATE RELEASED: *		TEST DATE:		LATEST REV DATE: 08-03-05		PAGE NO: 6 OF 13											

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG	
							MIN	RCD	MAX					
12.000	MIN FLOW CHECK (START DERICHMENT UNIT BLANKED OFF AND PY VENTED TO ATMOSPHERE FOR TPT 12.010 ONLY.)													
.010	70	40	36	2500	900	135	33		35					CHECK THAT FLOW REMAINS WITHIN LIMITS WHILE THROTTLE SHAFT IS ROTATED FROM 40 DEG. TO 31 DEG AND BACK TO 40 DEG
.020	NOTE: CYCLE Pc PRESSURE FROM AMBIENT TO 120 PSIA FIVE (5) TIMES AFTER COMPLETION OF TPT 12.010.													

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Honeywell		TEST SPECIFICATION										SOUTH BEND, IN USA					
ENGINE SYSTEMS & ACCESSORIES														FURNISHED UNDER CONTRACT NO.			
CAGE CODE NO:		06848				BENCH NO:		SERIAL NO:		MODEL:		DP-V1		TEST SPEC NO.		TS 13428	
OPERATOR NO:		PARTS LIST:				TEST SPEC TYPE:		PRODUCTION		LATEST REV:		1		PAGE NO:		7 OF 13	
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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
13.000 ACCELERATION FLOW (START DERICHMENT UNIT BLANKED OFF AT TPT 13.010 THRU 13.02A)													
.010	60	40	14.7	600	200	116	45.5		51.0				
.01A	60	"	15.5	800	280	119	48		54				
.020	"	"	16.5	1000	350	122	53		60				
.02A	"	"	19	1400	510	129	64		72				
.030	"	"	22	1700	625	139	77		82				
.040	"	31	"	"	"	"	-2.0		+2.0				
FLOW DIFF FROM TPT 13.030.													
.04A	"	40	"	"	"	187	-3.0		+3.0				
FLOW DIFF FROM TPT 13.030.													
.050	70	40	29	2200	820	162	101		113				
.060	"	MAX	33	2400	900	175	116		128				
.070	"	"	41	2700	1000	212	145		157				
.080	"	"	56	3100	1200	258	195		207				
.090	"	"	70	3400	1300	321	244		256				
.100	"	"	82	3600	1400	384	292		298				
.110	"	"	100	3900	1500	485	357		371				
.111	"	"	100	4000	1600	485	357		371				
.112	"	"	100	4100	1600	500	368		386				
.113	"	"	100	4200	1650	535	385		400				
.114	"	"	100	4300	1650	543	393		410				
.115	"	"	100	4400	1700	543	XX		XX				
P1-P2 25-44 IN HG.													
PC-PX MUST BE X [] +4 IN HG FROM THAT RECORDED AT TPT 13.114.													
.116	60	MAX	60	3900	1250	278	209		221				
.117	70	MAX	100	3900	1650	485	352		370				

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Honeywell										TEST SPECIFICATION									
ENGINE SYSTEMS & ACCESSORIES										SOUTH BEND, IN USA									
CAGE CODE NO: 06848					FURNISHED UNDER CONTRACT NO.														
BENCH NO:		SERIAL NO:		MODEL:		DP-V1		TEST SPEC NO.		TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:		PRODUCTION		LATEST REV:		1									
DATE RELEASED: *		TEST DATE:		LATEST REV DATE:		08-03-05		PAGE NO:		8 OF 13									

TEST POINTS	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
14.000 METERING VALVE MAXIMUM STOP ADJUSTMENT													
.010	70	MAX	120	4200	1650	435	305		310				
.020	70	MAX	120	4200	1650	465	325		330				
.030	70	MAX	140	4200	1650	505	350		356				
.040	70	MAX	140	4200	1650	540	371		379				
.050	70	MAX	140	4200	1650	655	437		443				
													P2-PD MUST BE 55 PSI MAX.
15.000 METERING VALVE HYSTERESIS CHECK													
.010	70	MAX	82*	3600*	1400	384	-5		+10		HYST DIFF FROM TPT 13.100.		
.020	"	"	70*	3400*	1300	321	-5		+10		HYST DIFF FROM TPT 13.090.		
.030	60	40	22*	1700*	625	139	-5		+7		HYST DIFF FROM TPT 13.030.		
.040	"	"	14.7*	600*	200	116	X		X		HYST DIFF FROM TPT 13.010.		
16.000 START-ACCEL SCHEDULE ADJUSTER CHECK													
FOR PARA 16.000-PC IS TO BE ADJUSTED AFTER POSITIONING THE ACCEL ADJUSTER.													
.010	60	40	22	1700	625	139	X		X		ADJUSTER TO BE TURNED TO CW STOP. DIFF FROM TPT 16.010.		
.020	"	"	"	"	"	"	+7.5		+11.5		RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.		
.030	"	"	"	"	"	"	X		X		ADJUSTER TO BE TURNED TO CCW STOP. DEFF FROM TPT 16.030.		
.040	"	"	"	"	"	"	-4.0		-8.0		RETURN ADJUSTER TO 3 CLICKS FROM CCW STOP.		
.050	"	"	"	"	"	"	77		82				

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Honeywell		TEST SPECIFICATION										SOUTH BEND, IN USA					
ENGINE SYSTEMS & ACCESSORIES														FURNISHED UNDER CONTRACT NO.			
CAGE CODE NO:	06848																
BENCH NO:		SERIAL NO:		MODEL:	DP-V1		TEST SPEC NO:	TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:	PRODUCTION		LATEST REV:	1									
DATE RELEASED:	*		TEST DATE:		LATEST REV DATE:	08-03-05		PAGE NO:	9 OF 13								

TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZLE FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
17.000 MANUAL START ACCELERATION FLOW (START DERICHMENT UNIT BLANKED OFF)													
.010	65	16	16.5	1000	350	128							
.020	"	40	"	"	"	"							
.030	"	21	"	"	"	"							
.040	"	40	"	"	"	"							
RECORD P2-P0 8 PSI (FLOW DIFF FROM TPT 17.010) 6 8 PHR (FLOW DIFF FROM TPT 17.030 2.4 4.4 PHR													
18.000 PR-PG VALVE (SET 10 PSIG AHEAD OF A #80 P/N 392502 BLEED FOR PARAGRAPH 18.000).													
.010	0	LOCAL	0	0	0	0	REDUCE THROTTLE ANGLE TO OBTAIN 20 40 IN. KEROSENE DROP ACROSS THE BLEED. THROTTLE ANGLE MUST BE 48 1/2 DEGREES.						
.020	"	MAX	"	"	"	"	PR LEAKAGE MUST BE 0 2.5 IN. KEROSENE DROP ACROSS THE BLEED.						
.030	"	"	"	"	"	"	PLUG PR PORT FOR TPT 18.030 ONLY. PG LEAKAGE MUST BE 0 5.5 IN. KEROSENE DROP ACROSS THE BLEED.						
.040	"	40	"	"	"	"	PR TO PG FLOW MUST BE 16.3 X IN. HG. ACROSS THE BLEED.						
.050	"	"	50	"	"	"	PLUG PG PORT FOR TPT 18.050 ONLY. PG CHANNELLING CHECK. PC-PY MUST BE 0 2.0 IN. HG.						
19.000 GOVERNOR RESET CHECK													
.010	70	MAX	84	3630	1400	230	210		220	PR-PA INCHES HG			
.020	"	"	40	2690	1000	160	62		70	MIN	RCD	MAX	
.030	"	"	84	3630	1400	230	SAME		AS	6.6		8.6	
TPT 19.010													

Honeywell		TEST SPECIFICATION										SOUTH BEND, IN USA					
ENGINE SYSTEMS & ACCESSORIES														FURNISHED UNDER CONTRACT NO.			
CAGE CODE NO:	06848																
BENCH NO:		SERIAL NO:		MODEL:	DP-V1		TEST SPEC NO:	TS 13428									
OPERATOR NO:		PARTS LIST:		TEST SPEC TYPE:	PRODUCTION		LATEST REV:	1									
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TEST POINT	PO PSIG	THROT ANGLE DEG	PC PSIA	SPEED RPM	FUEL SUPPLY PPH	PD PSIG	NOZZL3 FLOW PPH			PI-PD PSI	P1-P2 "HG	PC-PY "HG	PC-PX "HG
							MIN	RCD	MAX				
20.000 PY ORIFICE LEAK CHECK AND PX COVER FLOW CHECK													
.010	0	MAX	50	0	0	0							0 2.0
.020	REMOVE PX PRESSURE TAP ADAPTER AND INSTALL SCREEN ASSEMBLY. CHECK THAT BOTH O-RINGS ARE IN PLACE.												
.030	70	MAX	82	3600	1400	384	292		298				
21.000 FUEL INLET BLEED FLOW													
.010	70	0	LOCAL	0	ASREQ.	(P1 PRESSURE 200 PSIG.) BLEED FLOW MUST BE 34 42 PPH (DROP ACROSS BLEED 200 PSI.)							
22.000 BLEED SIZES													
.010	RECORD PX BLEED # AFTER FINAL CALIBRATION												
.020	RECORD PY BLEED # " " "												
23.000 EXTERNAL LEAKAGE CHECK													
.010	SET P1 PRESSURE AT 1000 PSIG.												
.020	OBSERVE FOR LEAKAGE - NONE PERMITTED OK REJ.												
24.000 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												
25.000 ADJUSTMENTS AND QUADRANT SCRIBING													
.010	ALL ADJUSTMENTS HAVE BEEN TORQUED TO SPECIFIED VALUES, AND THE MAXIMUM FLOW STOP QUADRANT HAS BEEN SCRIBED AT THE HI AND THREE (3) INTERMEDIATE LOCATIONS. OPERATING STAMP												

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TEST SPECIFICATION

ENGINE SYSTEMS & ACCESSORIES

SOUTH BEND, IN USA

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OPERATOR NO:	PARTS LIST:	TEST SPEC TYPE: PRODUCTION	LATEST REV: 1
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CROSS REFERENCE IDENTIFICATION OF HONEYWELL TEST SPECIFICATION TEST POINTS WITH ROLLS-ROYCE 3145D ACCEPTANCE TEST.

ROLLS-ROYCE EDS 3145D		HONEYWELL TEST SPECIFICATION
PARA. NO.	POINT NO.	TEST PONT NO.
4.3.3	-	6.050
4.3.4	-	6.050
4.3.5	-	6.040/6.020
4.3.6	-	6.030
4.3.7	-	6.010
4.4.1	-	8.010
4.5	-	1.010
4.6.1	-	2.010
4.6.2	-	2.020
4.6.3	-	2.030
4.7	1	13.010
4.7	1.1	13.01A
4.7	2	13.020
4.7	2.1	13.02A
4.7	3	13.030
4.7	4	13.050
4.7	5	13.060
4.7	6	13.070
4.7	7	13.080
4.7	8	13.090
4.7	9	13.100
4.7	10	13.110
4.7	11	13.111
4.7	12	13.113
4.7	13	13.114
4.7	14	13.115

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TEST SPECIFICATION

ENGINE SYSTEMS & ACCESSORIES

SOUTH BEND, IN USA

CAGE CODE NO:	06848	FURNISHED UNDER CONTRACT NO.		
BENCH NO:		SERIAL NO:		MODEL: DP-V1
OPERATOR NO:		PARTS LIST:		TEST SPEC NO. TS 13428
DATE RELEASED:	*	TEST DATE:		LATEST REV: 1
		LATEST REV DATE:	08-03-05	PAGE NO: 12 OF 13

CROSS REFERENCE IDENTIFICATION OF HONEYWELL TEST SPECIFICATION TEST POINTS WITH ROLLS-ROYCE 3145D ACCEPTANCE TEST.

ROLLS-ROYCE EDS 3145D		HONEYWELL TEST SPECIFICATION
PARA. NO.	POINT NO.	TEST POINT NO.
4.7	15	14.010
4.7	16	14.020
4.7	17	14.030
4.7	17a	14.040
4.7	18	14.050
4.7	19	15.010
4.7	20	15.020
4.7	21	15.030
4.7	23	13.116
4.7	22	13.117
4.7.1	2	17.020
4.7.1	6	17.040
4.7.2	1	3.010
4.7.2	2	3.020
4.8	1	10.010
4.8	2	10.020
4.8	3	10.030
4.8	4	10.040
4.9	1	11.010
4.9	2	11.020
4.9	3	11.030
4.9	4	11.040
4.9	5	11.050
4.9	6	12.010



TEST SPECIFICATION

ENGINE SYSTEMS & ACCESSORIES

SOUTH BEND, IN USA

CAGE CODE NO:	06848	FURNISHED UNDER CONTRACT NO.		
BENCH NO:		SERIAL NO:		MODEL: DP-V1
OPERATOR NO:		PARTS LIST:		TEST SPEC NO. TS 13428
DATE RELEASED:	*	TEST DATE:		LATEST REV: 1
		LATEST REV DATE:	08-03-05	PAGE NO: 13 OF 13

CROSS REFERENCE IDENTIFICATION OF HONEYWELL TEST SPECIFICATION TEST POINTS WITH ROLLS-ROYCE 3145D ACCEPTANCE TEST.

ROLLS-ROYCE EDS 3145D		HONEYWELL TEST SPECIFICATION
PARA. NO.	POINT NO.	TEST POINT NO.
4.10	1	19.010
4.10	2	19.020
4.10	3	19.030
4.11.1	1	18.040
4.11.1	2	18.010
4.11.1	3	18.020
4.11.2	1	18.030
4.12	-	23.000
4.13	1	13.030
4.13	2	13.040
4.14.1	-	21.010
4.15	1	16.020/16.040

	REGISTRO <i>RECORD</i>	REVISÃO <i>REVISION</i> 02
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Observações <i>Remarks</i>	

Aprovação <i>Approval</i>	Nome <i>Name</i>	Data <i>Date</i>	Assinatura <i>Signature</i>
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