

	REGISTRO <i>RECORD</i>	REVISÃO <i>REVISION</i> 01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS <i>SERVICE SHEET</i>	PÁGINA <i>PAGE</i> 1/5

COMPONENTE <i>COMPONENT</i>	OS <i>WO</i>	FABRICANTE <i>MANUFACTURER</i>	PN	SN
Overspeed Governor		Woodward		

IDENTIFICAÇÃO | IDENTIFICATION

TÍTULO <i>TITLE</i>	FICHA DE TESTE – OVERSPEED GOVERNOR <i>TEST SHEET – OVERSPEED GOVERNOR</i>
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PUBLICAÇÃO <i>PUBLICATION</i>	REFERÊNCIA <i>REFERENCE</i>	TLN	DATA REVISÃO <i>REVISION DATE</i>
Operation Maintenance Manual with IPL – 33048	61-20-37	TLN 02650 (epubs Intranet)	Rev. 10 – Mar, 28/2013
Woodward Test Specifications (TSP) – 847	-	-	Rev. AC
Woodward Assembly Drawing PN A210507 – (E/C 1024413)	-	-	Rev. W – Jan, 17/2001
Woodward Assembly Drawing PN 210632 – (E/C 1024413)	-	-	Rev. J – Jan, 17/2001
CONJUNTO MAIOR MAIN PART			
		PN	SN

PNs APLICÁVEIS <i>APPLICABLE PNs</i>	
A210507	210632

ITEM	PROCEDIMENTOS / TOLERÂNCIAS <i>PROCEDURES / TOLERANCES</i>	REGISTROS <i>RECORDS</i>	EXECUTADO POR / DATA <i>PERFORMED BY / DATE</i>
TSP Page 4 Section 2.2.1	(1) Configuração de Velocidade (posições das válvulas: 2 aberta. 1, 3, 4, 5 e 6 fechadas). (1) Speed Setting (valve positions: 2 open, 1,3,4, 5,6 closed). a. Configure o RPM para 4368 ± 10 com 150 ± 10 PSI de pressão de admissão de óleo. Ajuste o parafuso de ajuste da velocidade para obter um fluxo de $10 \pm 0,1$ QPM. NOTA: O fluxo não pressupõe qualquer vazamento no anel de transferência. a. Set the RPM to 4368 ± 10 with 150 ± 10 PSI oil inlet pressure. Adjust the speed setting screw to obtain a flow of 10 ± 0.1 QPM. NOTE: The flow does not assume any transfer ring leak. Registre o fluxo: _____ Record flow: Registre o RPM: _____ Record RPM:		___ / ___ / ___

	REGISTRO RECORD	REVISÃO REVISION 01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS SERVICE SHEET	PÁGINA PAGE 2/5

ITEM	PROCEDIMENTOS / TOLERÂNCIAS PROCEDURES / TOLERANCES	RESULTADOS RESULTS	EXECUTADO POR / DATA PERFORMED BY / DATE
TSP Page 4 Section 2.2.2	(2) Redefinição de Velocidade (posições das válvulas: 2 aberta. 1, 3, 4, 5 e 6 fechadas). <i>(2) Speed Reset (valve positions: 2 open, 1,3,4, 5,6 closed).</i> a. Energize a válvula solenoide com 18 ± 1 VCC e altere a velocidade para obter um fluxo de $9 \pm 0,1$ QPM com uma pressão de admissão de óleo de 150 ± 10 PSI. O RPM indicado deve ser de 3864 ± 40. <i>Energize solenoid valve with 18 ± 1 VDC and change the speed to obtain a flow of 9 ± 0.1 QPM with an oil inlet pressure of 150 ± 10 PSI. The indicated RPM must be 3864 ± 40.</i> Registre o RPM: _____ <i>Record RPM:</i>		____ / ____ / ____
TSP Page 4 Section 2.2.3	(3) Vazamento Interno (posições das válvulas: 2 aberta. 1, 3, 4, 5 e 6 fechadas). <i>(3) Internal leakage (valve positions: 2 open, 1,3,4,5,6 closed).</i> a. Configure o RPM para 4200 ± 10 e reduza a pressão de admissão de óleo para 60 ± 5 PSI. Assim, o vazamento interno não deve exceder 2,3 QPM. <i>Set RPM to 4200 ± 10 and reduce oil inlet pressure to 60 ± 5 PSI. That way, internal leak should be no more than 2.3 QPM.</i> Registre o fluxo: _____ <i>Record flow:</i>		____ / ____ / ____
TSP Page 6 Section 2.2.7	(7) Verificação de vazamento externo (posições das válvulas: 2 aberta. 1, 3, 4, 5 e 6 fechadas). <i>(7) External Leakage Check. (valve positions: 2 open, 1,3,4,5,6 closed).</i> Não deverá ser encontrado nenhum vazamento externo. <i>No external leakage is allowed.</i> Nenhum permitido: _____ <i>None allowed:</i>		____ / ____ / ____
TSP Page 10	(9) Woodward P/N: _____ S/N: _____ Solenoide reset P/N: _____ S/N: _____ <i>Reset Solenoid P/N:</i>		____ / ____ / ____

	REGISTRO RECORD	REVISÃO REVISION	01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS SERVICE SHEET	PÁGINA PAGE	3/5

ANEXOS
ANNEXES

APPLICATION INFORMATION (V)

ENGINE
MAKE: DEW
MODEL: PT6A-6, -20, -27, -28
PT6A-45*

SPECIFICATIONS:
GOVERNOR DRIVE ROTATION CW FACING PAD. .1404*
DRIVE RATIO .1273 TIMES POWER TURBINE SHAFT RPM.
POWER TURBINE SHAFT RPM 34,320 (104%) 31,089*
POWER TURBINE SHAFT RESET RPM 30,360 (92%) 27,502*

PROPELLER
MAKE: HARTZELL
MODEL: HC-B3FN-2 & 3, HC-B4MP-3

TYPE CERTIFICATE DATA SHEET NO. P15EA, P56GL
SPECIFICATIONS PROPELLER SHAFT RPM:
MAX RPM 2288 (104%) 1768*
RESET RPM 2025 (92%) 1564*

GOVERNOR
TEST SPECIFICATIONS: 
MAX RPM 4368 (104%) AT 150 +/- 10 PSI AT 10 +/- 1 QTS/MIN
RESET RPM 3864 (92%) AT 150 +/- 10 PSI AT 9.0 +/- 1 QTS/MIN
INTERNAL LEAKAGE 4200 (100%) AT 60 +/- 10 PSI AT 140 QTS/HOUR MAX.

GOVERNOR SPECIFICATIONS:
WEIGHT: 2.43 LBS, MOMENT AT MOUNTING PAD 4.8 IN.LBS.
BREAKAWAY TORQUE: 1 FT. LBS. AT -40°F.
DRIVE TORQUE REQUIRED: 33 IN LBS AT 4325 RPM & 140°F
SOLENOID SPECIFICATIONS:
RESET SOLENOID, P/N 1310-105
D.C. VOLTAGE: 18 MIN. TO 28 MAX.
CURRENT: .66 AMP MAX AT 30 V.D.C. AT 72°F.

* APPLICABLE TO PT6A-45 ONLY.

NOTES
 REF. TSP-847 FOR SPECIFIC TEST INSTRUCTIONS.

2. USE GASKET P/N 206685 WHEN MOUNTING GOVERNOR ON MOUNTING PAD. PRIOR TO INSTALLING GASKET, COAT WITH DOW CORNING 7 COMPOUND RELEASE AGENT OR EQUIVALENT.

3. FOR EXTERNAL DIMS. REFER TO OUTLINE DWG 9994-143.

4. THIS CONTROL MUST COMPLY WITH THE FOLLOWING SERVICE BULLETINS 33531, 33532, 33559, 33569.

(W) 5. ON ALL GOVERNORS FOR BEECH AIRCRAFT STAMP P/N "50-389044-11" ON NAMEPLATE.

 6 MARK NAMEPLATE PER SP-223.
PN
REV
SN
ASSY DATE

 7 MARK "FAA-PMA" IF APPLICABLE.

8. SAFETY WIRE PER SP-116.

 9 APPLY SEALANT PER SP-954 TYPE II.

TEST SPECIFICATION TSP-847

TO OVERHAUL THIS GOVERNOR USE OVERHAUL KIT NO. 8932-239 AND OPERATION MAINTENANCE MANUAL NU. 33048.

Figura 1: Coluna de Informações de Aplicação; Desenho de Montagem Woodward PN A210507 – (E/C 1024413)
Figure 1: Application Information Column; Woodward Assembly Drawing PN A210507 – (E/C 1024413)

	REGISTRO RECORD	REVISÃO REVISION 01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS SERVICE SHEET	PÁGINA PAGE 4/5

APPLICATION INFORMATION (H)

ENGINE
MAKE: DEWC
MODEL: PT6A-20, -21, -27
PT6A-45A PT6A-135A 

SPECIFICATIONS:
GOVERNOR DRIVE ROTATION CW FACING PAD. .1404
DRIVE RATIO: 123 TIMES POWER TURBINE SHAFT RPM
POWER TURBINE SHAFT RPM 34,320 (104%) 31,089 
POWER TURBINE SHAFT RESET RPM 30,360 (92%) 27,502 

PROPELLER
MAKE: HARTZELL, MCCAULEY
MODEL: HC-B37N-3, HC-B47N-3, HC-B4MP-3 
3GFB34C 7067L 108 NZO
TYPE CERTIFICATE DATA SHEET NO. P15EA, P40EA, P56GL 
SPECIFICATIONS PROPELLER SHAFT RPM: 
MAX RPM 2288 (104%) 1768 
RESET RPM 2025 (92%) 1564 1748

GOVERNOR
TEST SPECIFICATIONS: 
MAX RPM 13580 (104%) AT 150 +/- 10 PSI AT 10 +/- 1 QTS/MIN
RESET RPM 12640 (93%) AT 150 +/- 10 PSI AT 9.0 +/- 1 QTS/MIN
INTERNAL LEAKAGE 4200 (100%) AT 60 +/- 10 PSI AT 140 QTS/HOUR MAX.
GOVERNOR SPECIFICATIONS:
WEIGHT: 2.4 LBS. MOMENT AT MOUNTING PAD 1.2 IN.LBS.
BREAKAWAY TORQUE: 1 FT. LBS. AT -40°F.
DRIVE TORQUE REQUIRED: 33 IN LBS AT 4325 RPM @ 140°F
SOLENOID SPECIFICATIONS:
RESET SOLENOID, P/N 1310-105
D.C. VOLTAGE: 18 MIN. TO 28 MAX.
CURRENT: 66 AMP MAX AT 30 V.D.C. AT 72°F.

MAGNETIC PICK UP OUTPUT: .7 VOLTS RMS MIN AT 3200 RPM.

NOTES

 REF TSP-847 FOR SPECIFIC TEST INSTRUCTIONS.

2. USE GASKET P/N 206685 WHEN MOUNTING GOVERNOR ON MOUNTING PAD. PRIOR TO INSTALLING GASKET, COAT WITH DOW CORNING 7 COMPOUND RELEASE AGENT OR EQUIVALENT.

3. FOR EXTERNAL DIMS. REFER TO OUTLINE DWG 9994-143.

4. THIS CONTROL MUST COMPLY WITH THE FOLLOWING SERVICE BULLETINS: 33531, 33532, 33559, 33569.

 IF MAGNETIC PICK-UP IS INSTALLED IN THE FIELD, SEE INSTALLATION INSTRUCTIONS ON DWG 9910-813.

 ALSO ELIGIBLE TO BE AS SHIPPED AS AN EXCHANGE GOVERNOR WITH MAGNETIC PICK-UP PARTS INSTALLED, SEE INSTALLATION INSTRUCTIONS ON DWG 9910-813.

 APPLICABLE TO PT6A-45 ENGINE ONLY.

 APPLICABLE TO PT6A-135 ENGINE ONLY.

9. ON ALL GOVERNORS FOR BEECH AIRCRAFT CORP. STAMP P/N "97-389000-3" ON NAMEPLATE AND DO NOT SUPPLY 206685 MOUNTING GASKET.

 10 MARK NAMEPLATE PER SP-223.
PN
REV
SN
ASSY DATE

 11 MARK "FAA-PMA" IF APPLICABLE.

12. SAFETY WIRE PER SP-116.

 13 APPLY SEALANT PER SP-954 TYPE II.

TEST SPECIFICATION TSP-847

TO OVERHAUL THIS GOVERNOR USE OVERHAUL KIT NO. 176272 AND OPERATION - MAINTENANCE MANUAL NO. 33048

Figura 2: Coluna de Informações de Aplicação; Desenho de Montagem Woodward PN 210632 – (E/C 1024413)

Figure 2: Application Information Column; Woodward Assembly Drawing PN 210632 – (E/C 1024413)

	REGISTRO <i>RECORD</i>	REVISÃO <i>REVISION</i>	01
CÓDIGO CODE IAS-RG-0223	FICHA DE SERVIÇOS <i>SERVICE SHEET</i>	PÁGINA <i>PAGE</i>	5/5

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