



REPÚBLICA FEDERATIVA DO BRASIL
 AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL
 REGISTRO AERONÁUTICO BRASILEIRO
CERTIFICADO DE AERONAVEGABILIDADE
Airworthiness Certificate



Marcas (Registration Marks)

PP-RST

Nº Certificado / Certificate Number

17859

Modelo / Model

560XLS

Categoria de Homologação / Certification Category

TRANSPORTE

Peso Max. Decolagem / Max. T. O. Gross Weight

9163

Operador / Operator

CONSTRUTORA OAS S.A. EM REC. JUDICIAL

Fabricante (Manufacturer)

CESSNA AIRCRAFT

Nº de Série / Serial Number

560-5579

Nº Max. Passageiros / Max. Passenger Capacity

7

Via (Copy)

1ª VIA

Ano de Fabricação / Year of Manufacture

2005

Cat. de Registro / Reg. Category

TPP

Nº Min. Tripulantes / Minimum Crew

2

Tipo ICAO / ICAO Type

C56X

Este Certificado de Aeronavegabilidade é emitido conforme o Anexo 8 da Convenção sobre Aviação Civil Internacional, de 7 de dezembro de 1944, o Código Brasileiro de Aeronáutica, de 19 de dezembro de 1986, e o Regulamento Brasileiro de Aviação Civil (RBAC), aplicável à categoria de homologação acima mencionado, para a aeronave acima identificada, a qual é considerada aeronavegável enquanto mantida e operada de acordo com as limitações pertinentes, a menos que previamente suspenso ou cancelado.

This Certificate of Airworthiness is issued pursuant to Annex 8 of the International Civil Aviation Convention of December 7, 1944, the Brazilian Air Law of December 19, 1986, and the Brazilian Regulation of Civil Aviation (RBAC), applicable to the certification category above mentioned, in respect of the above mentioned aircraft, which is considered to be airworthy while maintained and operated in accordance with the pertinent limitations, unless previously suspended or canceled.

Observações / Remarks


Data de Expedição / Expedition Date

11/04/2016

Data de Validade / Valid Until

26/09/2020

Helio Tarquinio Junior
Helio Tarquinio Junior
 Registro Aeronáutico Brasileiro
 Gerente Geral
 Gerência Geral de Aeronavegabilidade - Continuada

FIAM	FICHA DE INSPEÇÃO ANUAL DE MANUTENÇÃO ASA FIXA				MARCAS PP-RST			
	PROC-QUAL-005/RR-21/01							
NÚMERO DO CHE/CHETA: 6905-01/ANAC			CÓDIGO DA EMPRESA: 08819					
I – DADOS DO OPERADOR								
NOME: TAM AVIAÇÃO EXECUTIVA E TAXI AEREO SA								
ENDEREÇO: RUA MONSENHOR ANTONIO PEPE 94 – PQ JABAQUARA – SÃO PAULO - SP								
II – DADOS DA AERONAVE								
FABRICANTE: CESSNA AIRCRAFT			MODELO: 560XL					
NÚMERO DE SÉRIE: 560-5579			ANO DE FABRICAÇÃO: 2005					
CATEGORIA DE HOMOLOGAÇÃO: TRANSPORTE			CATEGORIA DE REGISTRO: TPX					
COR PREDOMINANTE: BRANCA			PESO MÁXIMO DE DECOLAGEM (kg): 9072					
TRIPULAÇÃO MÍNIMA EA: 02			TRIP. MÍNIMA CAT. REGISTRO: 02					
Nº DE ASSENTOS PAX NA EA: 12			Nº DE ASSENTOS PAX NA IAM: 07					
TOTAL DE ASSENTOS NA EA: 14			TOTAL DE ASSENTOS NA IAM: 09					
HORAS TOTAIS: 2280,9			CÍCLOS TOTAIS: 1676					
NÚMERO DO CA: 17859			VALIDADE DO CA: 26/09/2020					
Nº DA LICENÇA DE ESTAÇÃO: 000056/2015-SP			VALIDADE DA LICENÇA DE ESTAÇÃO: 18/02/2035					
DATA DA ÚLTIMA PESAGEM: 26/08/2014								
III – DADOS DO(S) MOTOR(ES)								
FABRICANTE: PRATT & WHITNEY		TIPO ÚLT. INSP.	M1: MINOR	M2: MINOR	M3: N/A	M4: N/A		
P	MODELO	Nº DE SÉRIE	TSN	CSN	TSO	CSO	TSLI	CSLI
1	PW545B	PCE-DD0160	2280,9	1649	NOVO	NOVO	0,0	0
2	PW545B	PCE-DD0164	2280,9	1649	NOVO	NOVO	0,0	0
3	NA	NA	NA	NA	NA	NA	NA	NA
4	NA	NA	NA	NA	NA	NA	NA	NA
IV – DADOS DA(S) HÉLICE(S)								
FABRICANTE: NA		TIPO ÚLT. INSP.	H1: NA	H2: NA	H3: NA	H4: NA		
P	MODELO	Nº DE SÉRIE	TSN	TSO	TSLI			
1	NA	NA	NA	NA	NA			
2	NA	NA	NA	NA	NA			
3	NA	NA	NA	NA	NA			
4	NA	NA	NA	NA	NA			
V – SEGURO DA AERONAVE								
ADITIVO (B): 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/>			SEGURADORA: ACE SEGUROS SOLUÇÕES CORPORATIVAS S/A					
Nº DA APÓLICE: 37.28.4000013			VALIDADE: 31/03/2016					

Responsável pela execução: 

Responsável pela inspeção: 

RELATÓRIO DOS SERVIÇOS SIGNIFICATIVOS DE MANUTENÇÃO REALIZADOS NA AERONAVE DESDE A ÚLTIMA IAM E OS SERVIÇOS REALIZADOS DURANTE A IAM ATUAL (Inspeções programadas, calibrações, cumprimento de Diretrizes de Aeronavegabilidade, troca de componentes por motivo de vencimento de TBO, recuperação após acidente, etc.):

1 - Verificações requeridas pelo Apêndice "D" do RBHA 43, conforme aplicável (relacionar e relatar as não-conformidades caso encontradas, registrar números das OS correspondentes):

VIDE ORDEM DE SERVIÇO TAM Nº. 81606.

2 - Serviços verificados realizados desde a IAM anterior (registrar nome das empresas homologadas responsáveis):

VIDE ORDENS DE SERVIÇO TAM Nº. 81405, 81204, 80872, 80684, 80318, 80152, 79886.

3 - Serviços realizados na presente IAM (registrar descrição, dados técnicos correspondentes e números das OS correspondentes):

VIDE ORDEM DE SERVIÇO TAM Nº. 81606.

4 - Manutenção postergada (informar o motivo e o responsável pela decisão ou N/A, caso não exista):

NA

5 - Não-conformidades observadas (mencionar o número do documento entregue ao operador, conforme requer o parágrafo 43.11 (b) do RBHA 43, ou N/A, caso não existam):

NA

A aeronave de que trata esta FIAM foi **APROVADA** **REPROVADA** para retorno ao serviço nesta data

LOCAL: JUNDIAI - SP	DATA: 06/11/2015	VALIDADE DA IAM: 06/11/2016
Responsável pela execução / Código ANAC / CREA: SAULO LISBOA VIEIRA COD. ANAC Nº 11425-9	Assinatura: 	
Responsável pela inspeção / Código ANAC / CREA: ALBERTO KEIGI SUGIMOTO CREA SP Nº 5061743625	Assinatura: 	



ANAC

AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL

Consulta de Aeronave Cadastrada no Registro Aeronáutico Brasileiro

MATRÍCULA: PP-RST

Proprietário: BRADESCO LEASING S.A ARREND.MERCANTIL
CPF/CGC: 47509120000182
Operador: CONSTRUTORA OAS S.A. EM REC. JUDICIAL
CPF/CGC: 14310577000104

Fabricante: CESSNA AIRCRAFT
Ano de Fabricação: 2005
Modelo: 560XLS
Número de Série: 560-5579
Tipo ICAO: C56X
Tipo de Habilitação para Pilotos: C56X
Classe da Aeronave: POUSO CONVECCIONAL 2 MOTORES JATO/TURBOFAN
Peso Máximo de Decolagem: 9163 - KG
Número Máximo de Passageiros: 007
Tipo de voo autorizado: IFR Noturno

Categoria de Registro: PRIVADA SERVICO AEREO PRIVADOS
Número dos Certificados (CM - CA): 17859
Situação no RAB: ARRENDAMENTO MERCANTIL
Data da Compra/Transferência: 14/10/13
Data de Validade do CA: 26/09/20
Data de validade da I.A.M.: 06/11/16
Situação de Aeronavegabilidade: CERTIFICADO DE AERONAVEGABILIDADE (CA)
CANCELADO

Motivo(s):

- IAM vencida

Consulta realizada em: 11/02/2019 12:27:45



REPÚBLICA FEDERATIVA DO BRASIL
 AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL
 REGISTRO AERONÁUTICO BRASILEIRO



CERTIFICADO DE MATRÍCULA
 Certificate of Registration

Marca (Registration Mark) **PP-RST** Fabricante (Manufacturer) **CESSNA AIRCRAFT**

Modelo (Model) **560XLS**

Proprietário (Owner) **BRADESCO LEASING S.A. ARREND.MERCANTIL**

Endereço (Address) **CIDADE DE DEUS SN PREDIO PRATA 2 ANDAR VILA YA - OSASCO**

Operador (Operator) **CONSTRUTORA OAS S.A. EM REC. JUDICIAL**

Endereço (Address) **AV FRANCISCO MATARAZZO 1350, ANDAR 17 SALA 17 - SAO PAULO**

Observações (Remarks) **ARRENDAMENTO MERCANTIL**

Via (Copy)

1ª VIA

Nº Certificado (Certificate Number)

17859

Nº do Série (Aircraft Serial Number)

560-5579

CNPJ/CPF (General Caudex of Taxpayer)

47.509.120/0001-82

UF (State)

SP

CNPJ/CPF (General Caudex of Taxpayer)

14.310.577/0001-04

UF (State)

SP

Certifico que a aeronave acima descrita foi devidamente inscrita no Registro Aeronáutico Brasileiro de acordo com o Anexo 7 da Convenção sobre Aviação Civil Internacional, de 7 de dezembro de 1944, e o Código Brasileiro de Aeronáutica, de 19 de dezembro de 1986.

I certify that aircraft identified above was properly inscript in the Civil Air Agency in accordance with the Annex 7 of International Civil Aviation Convention of december 7, 1944 and the Brazilian Law of december 19, 1986.

Data de Expedição (Expedition Date)

08/04/2016

Luciana de Almeida Silva
 Gerente Técnica

ANÁLISE DE PRESERVAÇÃO DE MOTORES

PP-RST

FABRICANTE: CESSNA AIRCRAFT

MODELO: 560XLS

SERIAL NUMBER: 560-5579

ABRIL / 2020

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Este relatório tem como objetivo analisar os requerimentos para preservação dos motores PW545B especificados no Manual de Manutenção de Motor da PWC P/N 30J2242 e os registros das preservações efetuadas para os motores S/N PCE-DD0160 e S/N PCE-DD0164, instalados atualmente nas posições LH e RH (respectivamente) da aeronave PP-RST.

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01. INFORMAÇÕES GERAIS DA AERONAVE

INFORMAÇÕES DA AERONAVE			
PREFIXO: PP-RST		FABRICANTE: CESSNA AIRCRAFT	
MODELO: 560XLS		SERIAL NUMBER: 560-5579	
CATEGORIA DE REGISTRO: TPP		TSN: 2280,4	
LSN: 1678		ÚLTIMO VOO EM: 25/JUN/2015 (TRECHO SBSP/SBJD)	
INFORMAÇÕES DOS MOTORES			
MOTOR LH		MOTOR RH	
MODELO: PW545B		MODELO: PW545B	
SN: PCE-DD0160		SN: PCE-DD0164	
TSN: 2280,4	CSN: 1650	TSN: 2280,4	CSN: 1650
TSO: NEW	CSO: NEW	TSO: NEW	CSO: NEW
HSI (2500 HRS):	219,6 HORAS DISPONÍVEIS	HSI (2500 HRS):	219,6 HORAS DISPONÍVEIS
OVERHAUL (5000 HRS)	2719,6 HORAS DISPONÍVEIS	OVERHAUL (5000 HRS)	2719,6 HORAS DISPONÍVEIS

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02. REQUISITOS DE PRESERVAÇÃO PARA MOTOR PW545B

INFORMAÇÕES DO MANUAL DE MANUTENÇÃO DO MOTOR PW545B, P/N 30J2242, ATUALMENTE NA REVISÃO 29.1 DE 10/MAR/2020.

NO CAPÍTULO 72-00-00, PARÁGRAFO 7 “PRESERVATION/DEPRESERVATION”, ITEM A “PRESERVATION”, SUBITEM (2), ESTÃO ESTABELECIDOS OS PROCEDIMENTOS E PERÍODOS POSSÍVEIS DE PRESERVAÇÃO DOS MOTORES PW545B:

“(2) *The following engine preservation schedule lists procedures to be followed (Ref. Table 302):*

- (a) **1 to 7 days** - *Engines can be left in an inactive state, with no preservation protection, provided engine is sheltered, humidity is not excessively high and engine is not subjected to extreme temperature changes which would produce condensation. Standard engine covers installed to prevent too much windmilling, ingress of foreign objects, water and ice.*
- (b) **8 to 28 days** - *Engine inactive for up to 28 days, require no preservation provided all engine openings are sealed off and relative humidity in engine is maintained at less than 40 percent. Humidity control is maintained by placing desiccant bags and humidity indicator on wooden racks in engine exhaust duct. Suitable windows must be provided in exhaust closure to facilitate observation of humidity indicators. Make sure that the desiccant bags do not touch the engine components. The cowl drain hole must not be clogged.*
- (c) **29 to 90 days** - *Engine inactive for a period exceeding 28 days, but less than 90 days, need to have fuel system preserved (Ref. Step (3) following), in addition to Steps (2) (a) and (2) (b).*
- (d) **91 days and over** - *Engines inactive over 90 days in airframe or removed for long term storage in container, must, in addition to Steps (2) (a), (2) (b) and (2) (c), have engine oil drained. Remove cover plates from unused accessory drive pads and spray exposed surfaces and gearshafts with engine oil (PWC03-001). Replace cover plates. In addition, apply rust inhibitor (PWC15-011) or (PWC15-011A) to intermediate case and AGB external flanges including engine mount locations.”*

OBS.: O CAPÍTULO 72-00-00 “ENGINE, GENERAL – SERVICING” COMPLETO COM OS PROCEDIMENTOS E TEXTOS DAS PRESERVAÇÕES PODEM SER ENCONTRADOS NO **ANEXO 1** DESSE RELATÓRIO, COM AS PARTES PERTINENTES ÀS VERIFICAÇÕES DE REGISTROS ENCONTRADAS NESSA AERONAVE, DESTACADAS EM VERDE.

03. VERIFICAÇÃO DE REGISTROS DE PRESERVAÇÃO

CONFORME OS REGISTROS DE MANUTENÇÃO DESSA AERONAVE E DOS MOTORES, AS SEGUINTE PRESERVAÇÕES FORAM EFETUADAS:

OS 81606 – 06/NOV/2015:

PRESERVAÇÃO DE PRAZO SUPERIOR A 90 DIAS (91 DAYS AND OVER).

*PRESERVAÇÃO EFETUADA APÓS A FINALIZAÇÃO DE INSPEÇÕES CONTROLADAS (“LOW UTILIZATION INSPECTION” E “MINOR INSPECTION”).

OS 97706 – 18/MAR/2019:

PRESERVAÇÃO DE PRAZO SUPERIOR A 90 DIAS (91 DAYS AND OVER).

OBS.: A PRESERVAÇÃO PARA PERÍODOS SUPERIOR A 90 DIAS (91 DAYS AND OVER) FOI EFETUADA EM NOV/2015 E É VÁLIDA POR PERÍODO INDETERMINADO. EM MAR/2019, A TAM REVISOU O SERVIÇO PARA O MESMO TIPO DE PRESERVAÇÃO, TAMBÉM COM PRAZO INDETERMINADO, COMO UM MÉTODO DE VERIFICAÇÃO E GARANTIA DA QUALIDADE DO SERVIÇO, VISANDO MANTER ESSES MOTORES NA MELHOR CONDIÇÃO POSSÍVEL ENQUANTO ESTÃO FORA DE OPERAÇÃO. UMA CÓPIA DOS REGISTROS DAS OS'S 81606 E 97706 PODE SER ENCONTRADO NO **ANEXO 2** DESTE RELATÓRIO.

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04. INFORMAÇÕES ADICIONAIS

EM JUL/2016, NA OS TAM 83428, E EM JUN/2018, NA OS TAM 94322, FOI REALIZADA INSPEÇÃO BOROSCÓPICA NOS MOTORES, COM INTUITO DE VERIFICAÇÃO DA CONDIÇÃO INTERNA DOS MOTORES, SENDO QUE NAS DUAS OCASIÕES OS MOTORES FORAM CONSIDERADOS APROVADOS.

OBS.: UMA CÓPIA COMPLETA DAS OS'S 83428 E 94322, COM OS RELATÓRIOS DE INSPEÇÃO BOROSCÓPICA PODE SER ENCONTRADA NO **ANEXO 3** DESTE RELATÓRIO.

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05. CONCLUSÃO

CONFORME INSTRUÇÕES CONTIDAS NO MANUAL DE MANUTENÇÃO DA PRATT & WHITNEY, REFERENTES AO MODELO DE MOTOR PW545B E COM A VERIFICAÇÃO DOS REGISTROS DE MANUTENÇÃO, PODEMOS CONCLUIR QUE OS MOTORES LH – S/N PCE-DD0160 e RH – S/N PCE-DD0164, INSTALADOS ATUALMENTE NA AERONAVE PP-RST, ESTÃO DEVIDAMENTE PRESERVADOS.

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06. ANEXOS

ANEXO 1 – PW545B MAINTENANCE MANUAL P/N 30J2242 – CHAPTER 72-00-00 ENGINE, GENERAL - SERVICING

ANEXO 2 – REGISTROS OS 81606 E OS 97706

ANEXO 3 – BOROSCÓPIO MOTORES – OS 84328 E OS 94322

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TAM Aviação Executiva e Táxi Aéreo S.A.

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ANEXO 1

PW545B MAINTENANCE MANUAL P/N 30J2242 – CHAPTER 72-00-00 ENGINE, GENERAL - SERVICING

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Engine Model(s): PW500

72-00-00

ENGINE, GENERAL - SERVICING

1. General

- A. This section contains the servicing procedures applicable to the PW545B engine. The procedures are sub-divided to cover four main topics: Oil System Servicing, Preparation for Service or Storage, Preservation/Depreservation and Removal/Installation from/in Maintenance Stand.
- B. Oil system servicing involves oil level checks, replenishing, draining, flushing and refilling.
- C. Preparation of the engine for service or storage involves removal or installation of the engine from its shipping container. Preservation/depreservation covers protection of the engine and the engine oil and fuel systems.

2. Consumable Materials

The consumable materials listed below are used in the following procedures.

Item No.	Name
PWC03-001	Engine Oil
PWC05-077	Oil, Preservative
PWC05-372	Dye, Liquid, (Blue)
PWC06-004	Compound, Anti-seize
PWC09-003	Silicone Grease
PWC09-004	Sealant, (White) Silicone
PWC15-011	Inhibitor, Rust
PWC15-011A	Inhibitor, Rust

3. Special Tools

The special tools listed below are used in the following procedures.

Tool No.	Name
PWC60988	Sling
PWC66103	Puller
PWC66106	Sling
PWC66303	Bracket
PWC66304	Bracket

Tool No.	Name
PWC67000	Stand
PWC67298, Rev. B	Front Packaging Post
PWC67299	Rear Packaging Post
PWC67425	Rear Bypass Duct Engine Lifting Bracket
PWC67553	Stand
PWC67560	Oil Pan, Build Stand
PWC67585	Oil Pan, Build Stand
PWC67629	Upper Support Bracket

4. Fixtures, Equipment and Supplier Tools

Not Applicable

5. Oil System Servicing

CAUTION: DURING ALL OIL SYSTEM SERVICING, MAKE SURE EQUIPMENT AND CONTAINERS USED ARE ABSOLUTELY CLEAN. TAKE CARE TO PREVENT INGRESS OF ANY MATTER THAT COULD CAUSE CONTAMINATION.

A. Lubricating Oil

- (1) Refer to 72-00-00, DESCRIPTION AND OPERATION.
- (2) In cases where oils approved by P&WC are not available and other oils have to be substituted, an operator must obtain prior approval or recommendations for use of such oil from:

P&WC Customer First Center
Pratt & Whitney Canada
1000 Marie-Victorin Blvd.
Longueuil, Quebec
Canada J4G 1A1

B. Oil Level Check

CAUTION: DO NOT ADD OIL ABOVE "MAX" ON THE SIGHT-GLASS, BECAUSE A LARGE QUANTITY OF OIL VAPOR CAN BE LOST DURING ENGINE RUNNING. IF THE OIL LEVEL IS ABOVE "MAX", DRAIN SOME OIL BEFORE STARTING THE ENGINE.

NOTE: 1. P&WC does not recommend the casual mixing of different brands or types of oil. If oil mixing is necessary, refer to 72-00-00, DESCRIPTION AND OPERATION and ENGINE - SERVICING (Ref. Para. G.).

NOTE: 2. If possible, check the oil level after 10 minutes and within 20 minutes of engine shutdown, refer to the hot check procedure (Ref. Step (1) below). This will reduce the possibility of overfilling, due to oil expansion at operating temperature or oil transfer to the AGB during periods of inactivity, and will also give more accurate oil consumption data. If the oil level check is not possible within 20 minutes, do the cold check procedure (Ref. Step (2) below). If no oil level is visible, do the no oil visible procedure (Ref. Step (3) below).

NOTE: 3. If external oil leakage or high oil consumption is suspected, troubleshoot and repair (Ref. 72-00-00, FAULT ISOLATION) before adding oil.

NOTE: 4. Engine oil level should be maintained between the MIN and MAX indication.

(1) Hot Check: To check the oil level after 10 minutes and within 20 minutes after engine shutdown, proceed as follows:

(a) Check the oil level in the sight glass (outboard).

NOTE: Oil level check must be carried out horizontally with the sight glass during hot check.

(b) If the oil level is above "MIN" no action is required.

(c) If the oil level is below "MIN" and excessive oil consumption is suspected, troubleshoot and repair as necessary (Ref. 72-00-00, ENGINE, GENERAL - FAULT ISOLATION).

(d) To add oil proceed as follows:

NOTE: When you add oil, it is recommended to use an applicable filling device such as a funnel or fluid servicing cart with applicable attachment. Any spilled oil in the cowling or along the engine must be cleaned before you complete the task.

1 Unlock and remove the filler cap from the filler neck.

2 Add the necessary quantity of approved oil to the oil tank.

3 Install the filler cap in the filler neck. Make sure the cap is correctly installed and locked securely.

4 If necessary, clean spilled oil from the engine.

(2) Cold Check: To check the oil level more than 20 minutes after engine shutdown, proceed as follows:

(a) Allow engine to cool down.

(b) Check the oil level in the sight glass (outboard).

NOTE: Oil level check must be carried out horizontally with the sight glass during cold check.

(c) If the oil level is above "MIN" no action is required.

(d) If the oil level is below "MIN" do an engine dry motoring cycle (Ref. 71-00-00, POWER PLANT - ADJUSTMENT/TEST) or a run cycle as shown below:

1 Motoring Cycle: Perform a 15 to 20 second dry motoring cycle to return the oil that

could have transferred into the AGB from the oil tank. Observe starter limits (Ref. Aircraft Flight Manual). Check the oil level in the sight-glass and proceed as follows:

- a If the oil level is above "MIN" no action is necessary.
- b If the oil level is below "MIN" and excessive oil consumption is suspected, troubleshoot and repair as necessary (Ref. 72-00-00, ENGINE, GENERAL - FAULT ISOLATION). Otherwise service the engine between the "MIN" and "MAX" indication.

2 Run Cycle: Alternatively, start the engine (Ref. Aircraft Flight Manual) and run at idle or above until the oil temperature reaches the nominal operating temperature. If operation above idle is required to reach the nominal oil temperature, reduce power to idle for a minimum of two minutes before shutting the engine down to stabilize the engine temperature. Check the oil level, refer to the hot check procedure (1) above.

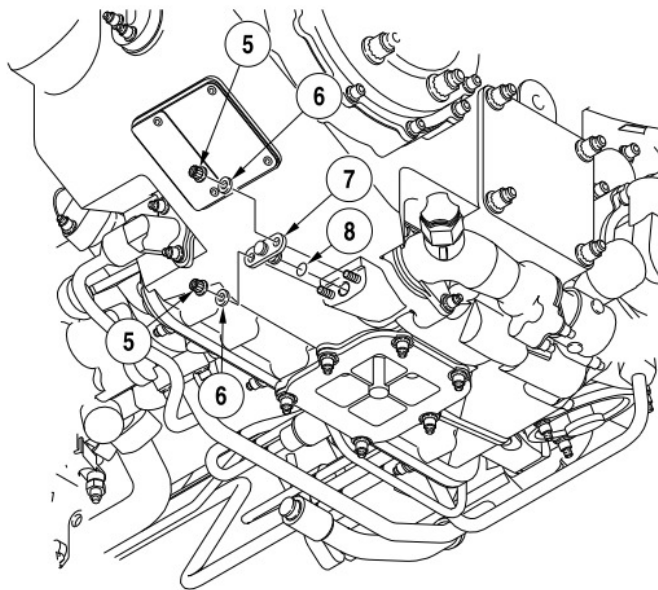
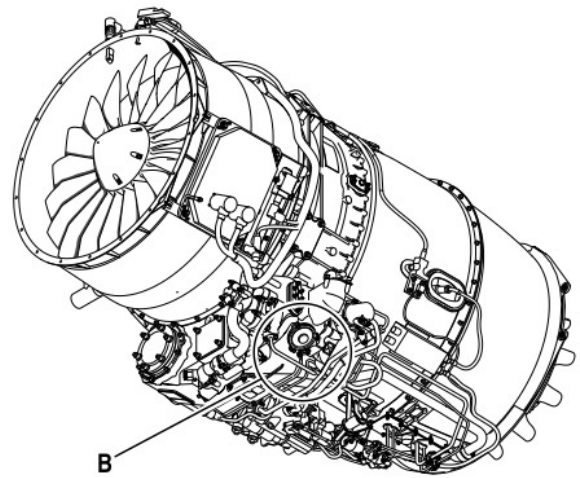
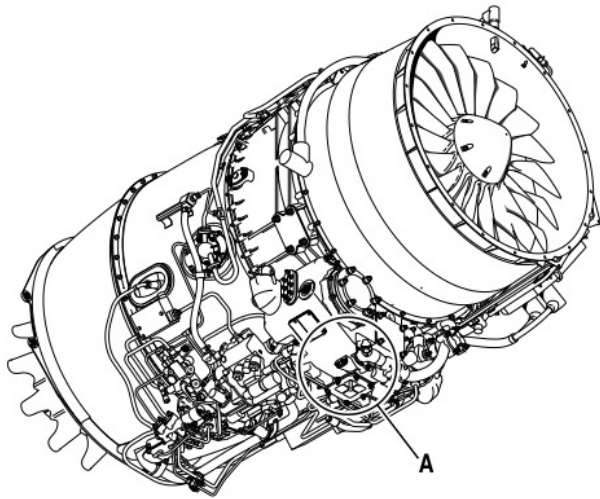
- (3) No Oil Visible: If oil level is not visible in the sight glass and/or the aircraft has not been used for an extended period, proceed as follows:
 - (a) Check for external leakage and repair as necessary.
 - (b) Fill oil tank to the "MIN" level mark on the sight glass and dry motor the engine for 30 seconds. This will return oil that has been drained into the AGB back to the oil tank.
 - (c) Check the oil level in 10 to 20 minutes after shutdown (this is to let the oil settle in the oil tank).
 - (d) If the oil level is above "MIN" no action is required.
 - (e) If the oil level is below the "MIN" mark, further investigation is necessary. Do an inspection for oil leaks and correct as necessary. If no leaks are found, replace the oil pump seal (Ref. 79-20-02, OIL PUMP - MAINTENANCE PRACTICES).

C. Oil Servicing Record

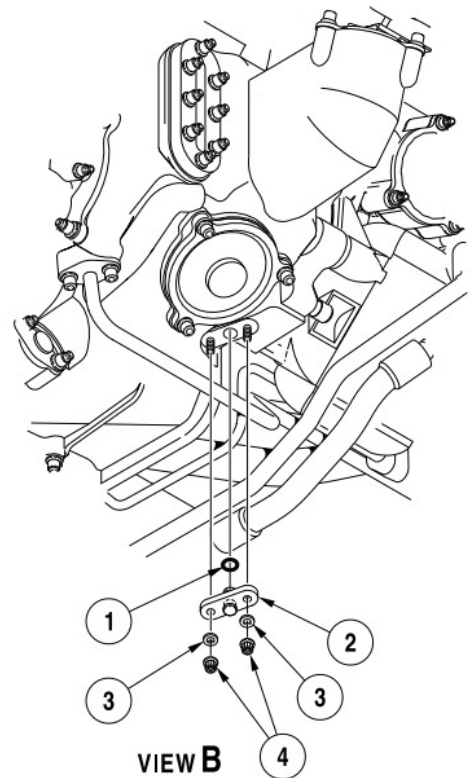
- (1) The oil servicing record can be used to calculate oil consumption rates for monitoring and/or troubleshooting purposes.
 - (2) Monitor the oil consumption and record the quantity of oil added in the table (Ref. Fig. 301).
 - (3) Use the data and the formula available (Ref. Fig. 301) to calculate the oil consumption of the engine. Make sure that the oil consumption is in the limits (Ref. 05-10-00, OPERATING LIMITS AND LEADING PARTICULARS).
 - (4) If oil consumption is more than the limits, refer to Chapter 72-00-00, ENGINE, GENERAL - FAULT ISOLATION, High Oil Consumption chart.
- D. Oil System Drainage (Ref. Fig. 302)

Figure 302 Oil System Drainage

(SHEET 1 OF 2)



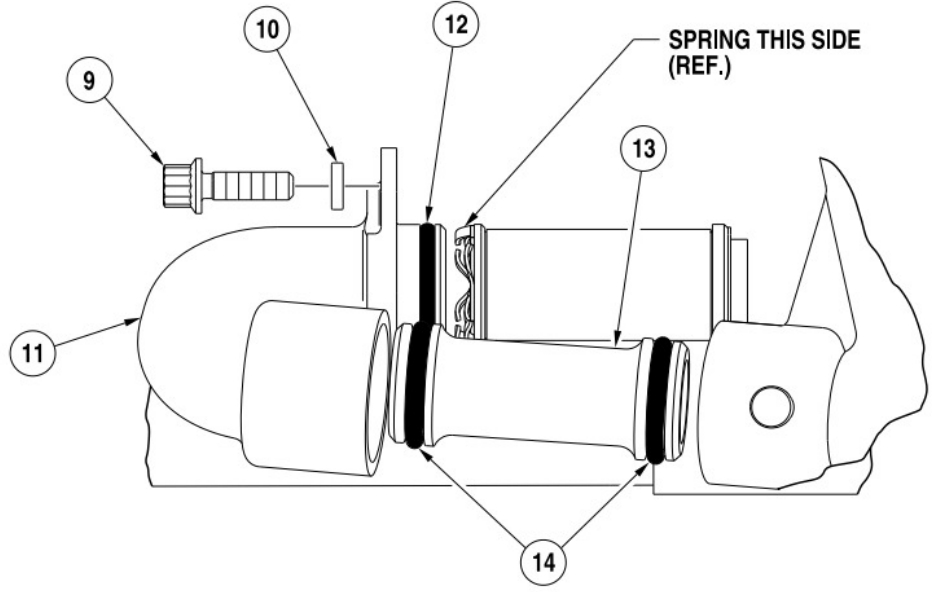
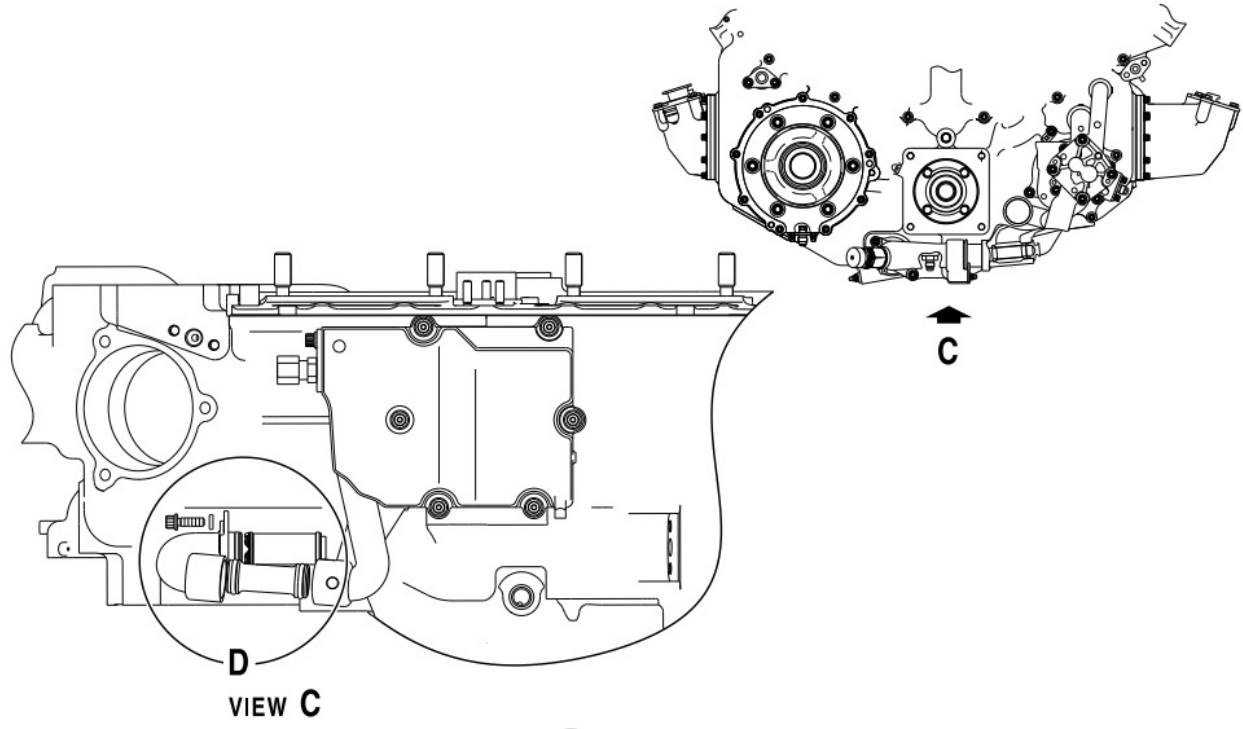
VIEW A



VIEW B

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(SHEET 2 OF 2)



DETAIL D

POST-SB30413

icn-00198-g000019871-001-01

1. Preformed Packing
2. Cover
3. Washer
4. Nut
5. Nut
6. Washer
7. Cover
8. Preformed Packing
9. Bolt
10. Washer
11. Elbow Tube (Post-SB30413)
12. Preformed Packing (Post-SB30413)
13. Transfer Tube (Post-SB30413)
14. Preformed Packing (Post-SB30413)

- (1) Drain the oil system as follows:
 - (a) Place suitable containers or drip pan under engine.
 - (b) Remove oil filler cap.
 - (c) Remove two nuts (5) and washers (6) and remove the oil tank drain cover (7) from the bottom of the accessory gearbox using puller (PWC66103). Discard preformed packing (8).
 - (d) Remove two nuts (4) and washers (3) and remove the oil filter drain cover (2) using puller (PWC66103). Discard preformed packing (1).
 - (e) **Post-SB30413:**
 - 1 Remove two bolts (9) and the two washers (10) that attach the elbow tube (11) to the intermediate case.
 - 2 Pull the elbow tube (11) to remove it from the intermediate case.
 - 3 Remove the transfer tube (13) from the elbow tube (11). Remove and discard the preformed packings (14).
 - 4 Remove and discard the preformed packing (12) from the elbow tube (11).

E. Oil System Filling (Ref. Fig. 302)

- (1) Refill Oil System as follows:
 - (a) Lubricate and install new preformed packing (8) on the oil tank drain cover (7).
 - (b) Apply anti-seize compound to threads of studs and install oil tank drain cover (7), two nuts (4) and washers (3).
 - (c) Torque nuts 23 to 26 lb.in. (2.6-2.9 Nm).
 - (d) Lubricate and install new preformed packing (1) on the oil filter drain cover (2).
 - (e) Apply anti-seize compound to threads of studs and install oil filter drain cover, two nuts (4) and washers (3).
 - (f) Torque nuts 23 to 26 lb.in. (2.6-2.9 Nm).
 - (g) Replace oil filter element, if necessary (Ref. 79-20-01).
 - (h) **Post-SB30413:**
 - 1 Lubricate and install the new preformed packing (12) on the elbow tube (11).
 - 2 Lubricate and install the two new preformed packings (14) on the transfer tube (13).
 - 3 Install the elbow tube (11) with the transfer tube (13) on the intermediate case with the two bolts (9) and the two washers (10). Torque the bolts 27 to 30 lbf.in. (3.1 - 3.3 Nm).
 - (i) Fill the oil tank again with engine oil (PWC03-001) between the "MIN" and "MAX" indication.
 - (j) Install filler cap in filler neck. Make sure cap is correctly installed and locked.
 - (k) Do a dry motoring run (Ref. 71-00-00, POWER PLANT - ADJUSTMENT/TEST).

- (l) Do a check for oil level (Ref. Para. 5. B.).
- (m) Perform engine run at ground idle for 15 minutes (Ref. 71-00-00, ADJUSTMENT/TEST).
- (n) Check for oil leaks.
- (o) Check oil level (Ref. Para. B.).

F. Oil System Flushing

NOTE: If an engine oil system has been contaminated by other than metallic matter, the oil system must be flushed.

- (1) Drain engine oil (Ref. Para. D.).
- (2) Refill oil system (Ref. Para. E.).
- (3) Do a 10 to 20 second dry motoring cycle (Ref. 71-00-00, POWER PLANT - ADJUSTMENT/TEST).
- (4) Check the oil level again and adjust as necessary. You must keep the oil level between the "MIN" and "MAX" indication.
- (5) Perform engine run at stabilized idle for 5 minutes.
- (6) Shutdown the engine (Ref. 71-00-00, ADJUSTMENT/TEST) and repeat Steps (1) to (5).

G. Replacement of Oil with a different Approved Brand

- (1) When switching to another approved brand of the same oil type (Ref. 72-00-00, Engine General - Description and Operation), proceed as follows:
 - (a) Add new oil as required (top off).

NOTE: Oil need not to be drained and engine need not be flushed.

- (2) If oils of different viscosities or if non approved oils become mixed, do the steps that follow:
 - (a) Do a visual check of the oil filter.
 - (b) Do a second visual check of the oil filter at the next line check or max. 50 flight hours as follows.
 - 1 Drain the complete oil system (Ref. Para. D.).
 - 2 Refill with clean oil with the approved oil type (Ref. 72-00-00, Engine General - Description and Operation).
 - (c) If large quantities of carbon deposits are found (i.e. loose carbon deposits covering most of the oil filter surface and the inside cavity of the filter), continue as follows:
 - 1 Drain the complete oil system (Ref. Para. C.).
 - 2 Refill with clean oil of the original approved oil type. (Ref. Para. D.).
 - 3 Install a new oil filter.
 - 4 Do an engine run at stabilized idle for five minutes.

- 5 Shutdown the engine.
- 6 Do a visual check of the oil filter. If the oil filter is contaminated contact P&WC or if the filter is clean continue with Step 7.
- 7 Drain the complete oil system (Ref. Para. D.). Refill with clean oil of the original approved oil type (Ref. 72-00-00, Engine General - Description and Operation).
- 8 Install a new oil filter.
- 9 Do an engine run at stabilized idle for five minutes.
- 10 Do a visual check of the oil filter at the next line check or max. 50 flight hours.
- 11 Contact P&WC if large quantities of carbon deposits are still found.

- (3) Operators wishing to monitor oil quality, it is recommended that a program be established in collaboration with the operator's oil supplier.

H. Use of SOAP Analysis

- (1) While PWC recognizes the value of SOAP analysis as a trending tool for monitoring oil system health, its use is not endorsed and remains the responsibility of the operator in determining appropriate intervals and guidelines.

I. Blue Oil Dye

- (1) Blue oil dye (PWC05-372) can be added to any P&WC approved lubricating oil on a one-time basis when you fill the oil system. The dye improves the sight glass visibility and helps in the detection of oil leaks.
- (2) Use 0.122 - 0.171 milliliters per liter, or 0.462 - 0.647 milliliters per U.S. gallon of oil. The maximum concentration must not be more than 0.171 milliliters per liter, or 0.647 milliliters per U.S. gallon.
- (3) The dye is blue in color but when mixed with some oils which are yellow in color, the result can be green colored oil.

J. Oil Analysis

- (1) **TAN Test:**

NOTE: Engine TAN test sampling and inspection is recommended if visual inspection of oil shows very dark oil and/or has an unusual odor.

- (a) Before you take an oil sample for analysis, start and operate the engine until oil temperature is 70° C (158° F) minimum (Ref. 71-00-00, POWER PLANT - ADJUSTMENT/TEST). Shut down the engine (Ref. 71-00-00, POWER PLANT - ADJUSTMENT/TEST).
- (b) If the Total Acid Number (TAN) is more than 2.0, or water content is more than 1000 parts per million by weight or by volume, do the steps that follow:
 - 1 Drain and discard oil from the oil tank (Ref. Para. 5.D.).
 - 2 Fill the oil tank with new oil again (Ref. Para. 5.E.).

NOTE: 1. The value of TAN in the new oil agrees with specification changes as per

the brand and manufacturer.

NOTE: 2. As the oil becomes deteriorated, the color becomes black and the oil can possibly release strong harsh odor. This is not a reason to change the oil, but do an analysis of the oil.

NOTE: 3. Use a Titra-Lube TAN Test Kit (P/N TI-TAN) to do analysis of the oil. The kit is available in the below address or contact a local distributor for availability of the kit:

Dexsil Chemical Corp,
1 Hamden Park Drive,
Hamden, CT06517
USA
TEL: 1-800-4-DEXSIL
03-288-3509
FAX: 203-248-6523

(2) **P&WC's Oil Analysis Technology:**

NOTE: 1. P&WC's oil analysis technology is an optional task and the operator can take decision to do it.

NOTE: 2. P&WC's oil analysis technology is complementary to oil filter/chip analysis, it is not replacing it. You can do the oil filter debris and chip analysis in any independent laboratory approved by P&WC per SIL GEN-123. Do chip/filter analysis during scheduled maintenance (filter and chip inspection) or in an unscheduled maintenance activity.

NOTE: 3. Refer to SIL GEN-153 to order P&WC's oil analysis technology sampling kit(s).

NOTE: 4. Before you get an oil sample, operate the engine at IDLE until you get a stable oil temperature. Shut down the engine.

NOTE: 5. If it is not possible to operate the engine at IDLE, it is acceptable to get a sample in 15 to 30 minutes of engine shutdown.

(a) Recommended Interval

- 1 It is recommended to do this procedure by the operator as soon as practicable after you receive the first oil sampling kit and during scheduled maintenance thereafter, with a recommended frequency of two times per year. The procedure can be done in conjunction with the scheduled oil system maintenance or at the aircraft minor inspection interval. If necessary, P&WC can recommend a different sampling frequency for a specific engine. In the case of a planned or unplanned engine removal, take an oil sample before removal if possible.

WARNING: OIL TEMPERATURE IS SUFFICIENTLY HIGH TO CAUSE BURNS TO SKIN EXPOSED TO THE OIL. PUT ON PROTECTIVE CLOTHING AND GLOVES.

(b) Procedure

- NOTE:** 1. Make sure that the area is clean to prevent contamination of the engine oil system and the oil sample. Make sure that the container and tooling are free of debris and contaminants.
- NOTE:** 2. Do not add material from the chip detector magnet to the oil sample.
- NOTE:** 3. Do not use the oil sample bottle to collect the first 60 cc of oil from the drain. This will prevent contamination of the final oil sample.

- 1 Open the engine cowlings as necessary (Ref. AMM).
- 2 Remove the engine chip detector. Remove and discard the two preformed packings (Ref. 79-30-01, CHIP DETECTION - MAINTENANCE PRACTICES).

CAUTION: DO NOT PUSH THE SPRING-VALVE TOO FAR.

- 3 Push the spring-valve open with a clean and non-magnetic tool such as a flat-face pin punch to drain the oil.
- 4 Drain 60 cc of oil from the spring-valve before you collect the oil sample to make sure that the oil comes from the tank.
- 5 Collect oil into the clear bottle given in the oil sampling kit and fill it to 90% of total volume or a minimum of 60 cc.
- 6 Install the chip detector with the two new preformed packings (Ref. 79-30-01, CHIP DETECTION - MAINTENANCE PRACTICES).
- 7 Fill the oil tank with fresh oil (Ref. Para. 5.E.).
- 8 Identify the clear bottle label sticker with the applicable sample information.
- 9 Fill the oil analysis sampling form given in the kit with the sample information.

NOTE: Use one form per engine sample.

- 10 Put the oil sample bottle and the oil analysis sampling form separately into the two given plastic bags and seal them.
- 11 Send the oil sample to laboratory at the address that follows:

GASTOPS
P&WC Oil Analysis Technology
146A Glencoe Dr.,
Mount Pearl, NL
Canada,
A1N 4S9

- 12 Close the engine cowlings as necessary (Ref. AMM).

6. Preparation for Storage and Service

A. Shipping Container - Description

- (1) The fiberboard shipping container consists of a wooden skid base, to which is secured a metal cradle. The container is intended for domestic shipment in a closed conveyance on

the North American continent or for overseas shipment by air. It is not intended for shipment by sea.

- (2) The container is weather resistant only and should not be exposed to climatic conditions for more than seven days. It must not be used for outdoor storage. The shipping container offers protection against corrosion for a period of up to six months, provided that the container is correctly sealed and sheltered indoors in relatively dry area and the color of the humidity indicator is monitored every 15 days.
- (3) To maintain internal conditions within the protective envelope, at a safe humidity level for storage, twelve bags of desiccant material are placed in the protective envelope. Each desiccant bag contains eight units (one unit equals one ounce). A humidity indicator is installed within the protective envelope and is visible through a window in the fiberboard casing. The moisture level can thus be checked without disturbing the container or its contents. At a safe humidity level (up to 40 percent relative humidity) the indicator color is blue. As humidity increases, the color gradually changes to pink. An all pink color indicates that an unsafe moisture condition has been reached; the desiccant must then be replaced with freshly activated bags.

Table 301 Shipping Container Data

DESCRIPTION	DATA
Length	90 in. (229 cm.)
Width	44 in. (112 cm.)
Height	55 in. (140 cm.)
Weight (approx.)	500 lb. (230 kg.)

B. Precautions

- (1) When an engine is to be removed from or installed in a shipping container, the following precautions must be taken.
 - (a) Make sure that a hoist of sufficient lifting capacity, plus safety factor, is available to lift loads as follows:
 - 1 PW545B Engine - a load of 900 lb. when lifting engine only and a load of 1300 lb. when lifting engine encased in container.
 - 2 Make sure that container or engine is positioned correctly on floor, directly beneath hoist.
 - 3 Make sure that free overhead space of at least seven feet is available, exclusive of distance from top of container or engine to hook.

C. Removal of Engine from Shipping Container (Ref. Fig. 303 and 304)

CAUTION: IF ENGINE IS DROPPED, RETURN ENGINE TO AN APPROVED OVERHAUL FACILITY FOR INSPECTION/REPAIR IN ACCORDANCE WITH THE OVERHAUL MANUAL.

- (1) Cut and remove strapping (1, Fig. 303) and 24 corners (6) from around engine shipping container (10). Remove the envelope (8) containing shipping instructions from the container sleeve. Remove cover (2) and sleeve (3) from skid base assembly (4).
- (2) Cut protective envelope (5) and expose top of engine. Remove the bagged preservation tag lockwired to the bypass duct flange.

CAUTION: NEVER USE ENGINE SLING AND LIFTING BRACKETS TO LIFT AN ENGINE WHICH HAS ITS CRADLE STILL ATTACHED TO THE SHOCK MOUNTS.

- (3) Apply engine oil (PWC03-001) to threads of seven bolts. Install the rear engine lifting bracket (PWC67425). Secure with seven bolts, washers and nuts. Torque 36 to 40 lb.in. (4.1-4.5 Nm). Attach sling (PWC66106) to lifting brackets (3 locations). Support engine with hoist.
- (4) Remove eight bolts and washers, and two mount pad covers from upper left and right front mount pad locations.
- (5) Remove four bags of desiccant (25, Sheet 1, Fig. 304) from the upper part and both sides of the engine. Retain to reactivate as required.
- (6) Loosen and remove two clevises/rod ends (13, Fig. 303) and two turnbuckles/clevises/rod ends (14) securing the engine at the cradle rear mount brackets (12) and skid base assembly (4).
- (7) Loosen and remove eight bolts, the two front engine mount brackets and the protective envelope (5) from the engine.

CAUTION: WHEN ENGINE IS RAISED FROM THE CRADLE, BE CAREFUL TO AVOID DAMAGING THE OIL LEVEL SIGHT GLASS AND P3 AIR TUBE.

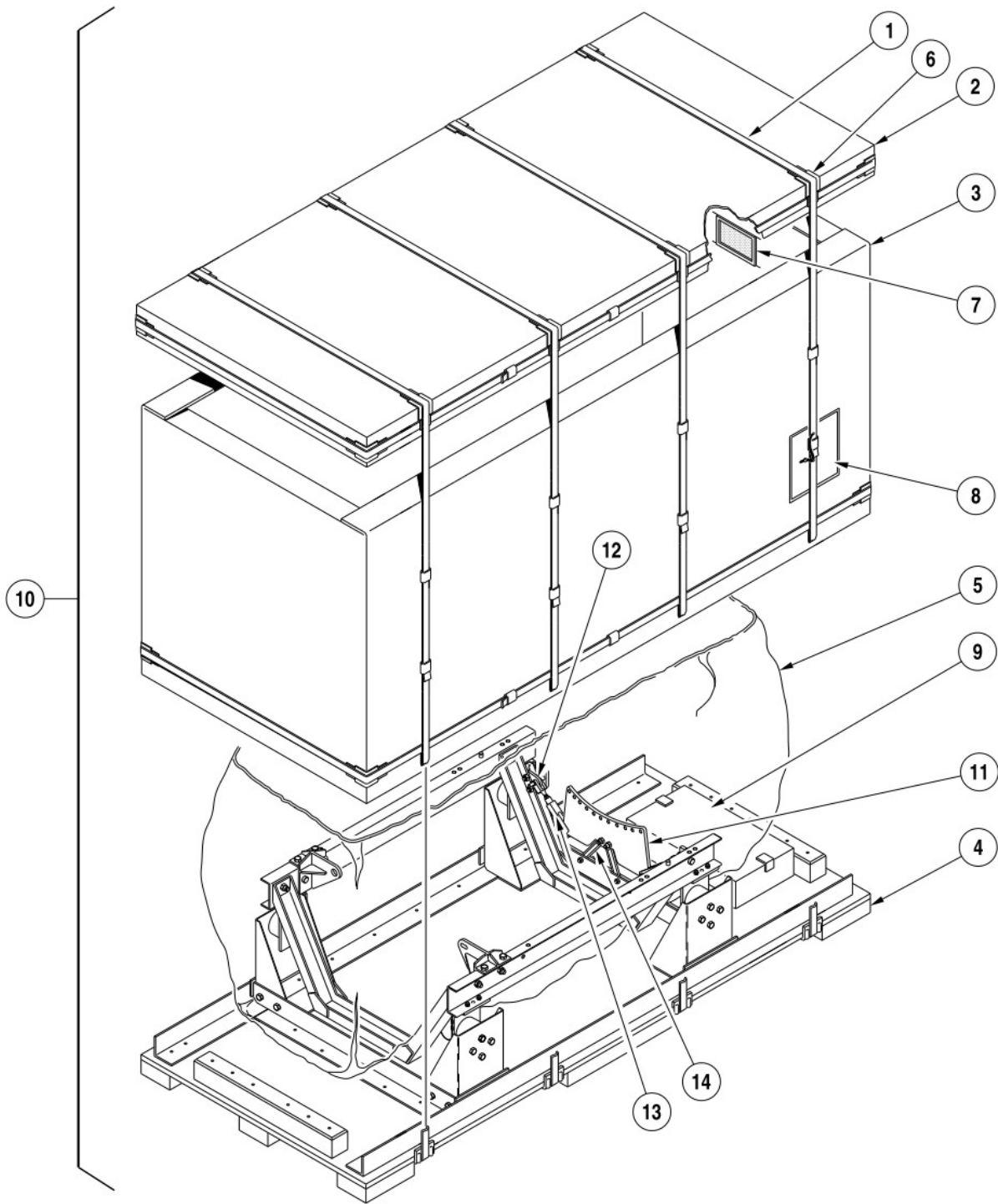
CAUTION: DO NOT ALLOW ENGINE TO CONTACT ANY PART OF SHIPPING CONTAINER WHEN LIFTING ENGINE.

- (8) Raise engine slightly, remove two quick release pins, and the front mount support brackets. Raise engine clear of the cradle and skid base assembly.
- (9) Install engine in front packaging post (PWC67298 Rev. B., refer to Tool Service Bulletin PW500-9) and rear packaging post (PWC67299), as necessary.
- (10) Remove seven bolts, washers, nuts, and the rear engine lifting bracket (PWC67425). Detach the sling (PWC66106) from the three lifting brackets.
- (11) Remove engine log book, log sheets, rear heat shield, and any other relevant documentation stored in shipping container storage box (9, Fig. 303).
- (12) Loosen and remove two clevises/rod ends (13) and two turnbuckles/clevises/rod ends (14) from the rear engine shipping container bracket (11).
- (13) Remove 17 bolts, washers, nuts and the exhaust duct shipping cover (4, Sheet 1, Fig. 304)
- (14) Remove bypass duct protective cushioning wrap (8).

NOTE: Do not drag cushioning wrap over the bypass duct.

- (15) Remove six bolts, washers, nuts and the nose cone shipping cover (1).
- (16) Remove nine bolts, washers, nuts and the rear engine shipping container bracket and plate (11, Fig. 303).
- (17) Check that the metering orifice at the bleed servo valve is correctly lockwired.
- (18) Check that the fuel control lever and rod are correctly connected with a bolt locked with a cotter pin. Also check that the bellcrank assembly pivot bolt is locked with a cotter pin. Remove the tie wrap (23, Sheet 1, Fig. 304) passing through the bellcrank thrust reverser and throttle levers.
- (19) Remove the bypass accelerometer bracket and shipping plug. Apply engine oil to bolt threads, reinstall the bracket and secure with two bolts and nuts. Torque the bolts 36 to 40 lb.in. (4.1-4.5 Nm).
- (20) Remove six washers and nuts and two bypass bleed cooling air cover (3, Sheets 1 and 2).
- (21) Remove ten washers and two compressor cabin bleed covers (2).
- (22) Remove two nuts, washers, the shipping gasket and cover from the fuel control inlet port (9, Sheet 2), and the shipping caps from the fuel pump drive drain (10), the flow divider valve drainage port (12), and the ground base support connection.
- (23) Remove the two protective plugs from the fuel flowmeter spacer (18), two electrical shipping caps from the ignition exciter (5, Sheet 1) and the electrical dust cap and tie wrap from the wiring harness airframe connector (7 and 23, Sheet 2).
- (24) Remove four nuts, washers and the hydraulic pump drive pad cover (21).
- (25) Remove six nuts, washers and the alternator drive pad cover (20), and the shipping cap at the alternator drain (19).
- (26) Remove four nuts, washers and the starter generator cover (16).
- (27) Remove the shipping cap from the starter generator drain seal (17), the two caps from the high and low pressure connection (14 and 15), the cap from the chip collector (18) and the threaded plug (6, Sheet 1) from the main oil temperature boss.
- (28) Remove any remaining shipping covers, plugs and caps, as necessary (Ref. Fig. 304).

Figure 303 Engine Shipping Container

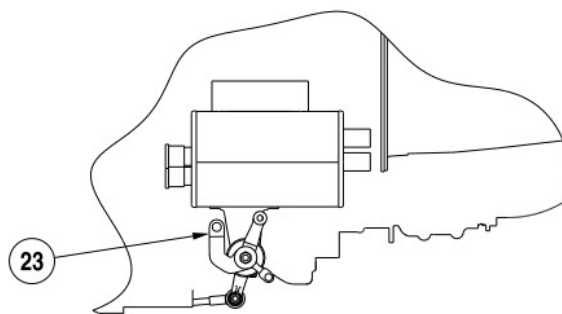
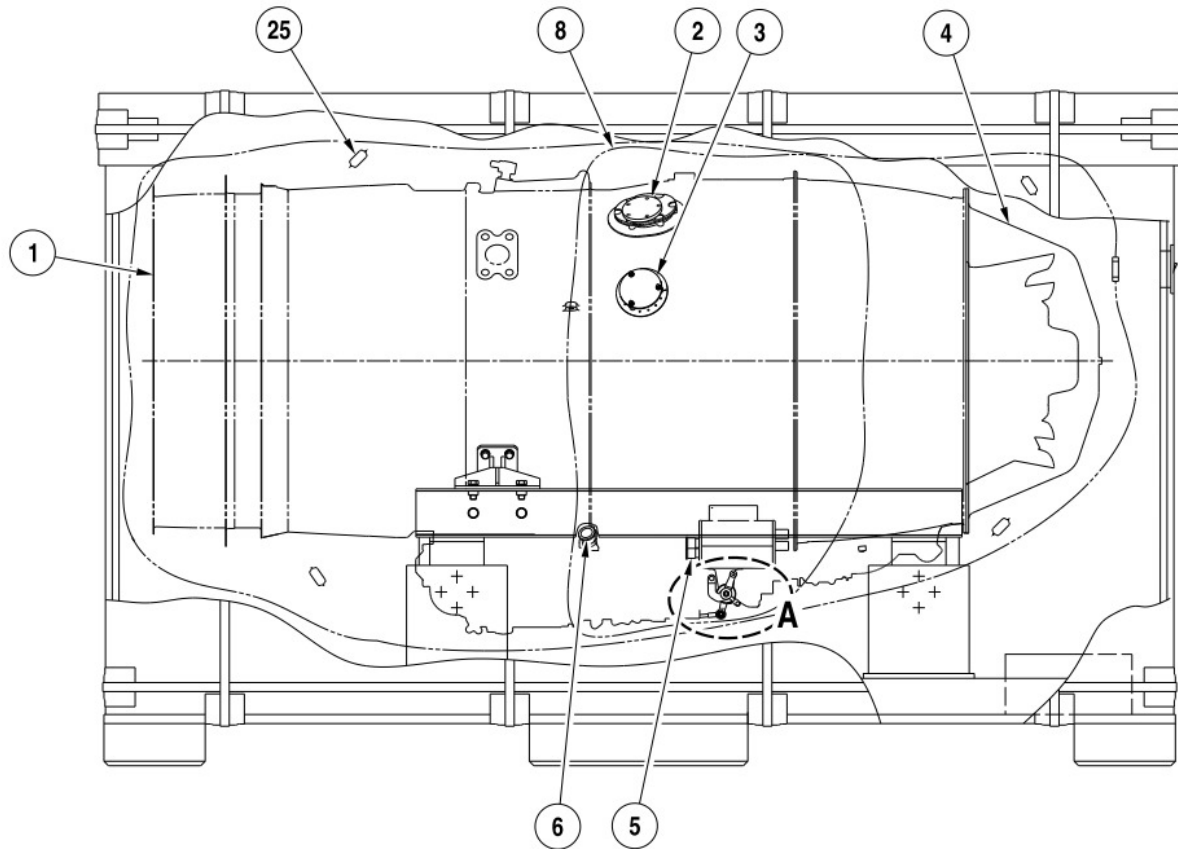


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1. Steel Strapping and Seals
2. Shipping Container Cover
3. Shipping Container Sleeve
4. Skid Base Assembly
5. Plastic Envelope
6. Corner
7. Humidity Indicator Window
8. Shipping Container Instruction Envelope
9. Document Storage Box
10. Engine Shipping Container
11. Rear Engine Shipping Container Bracket and Plate
12. Cradle Rear Mount Bracket
13. Clevis/Rod End
14. Turnbuckle/Clevis/Rod End

Figure 304 Engine Shipping Covers, Caps and Plugs

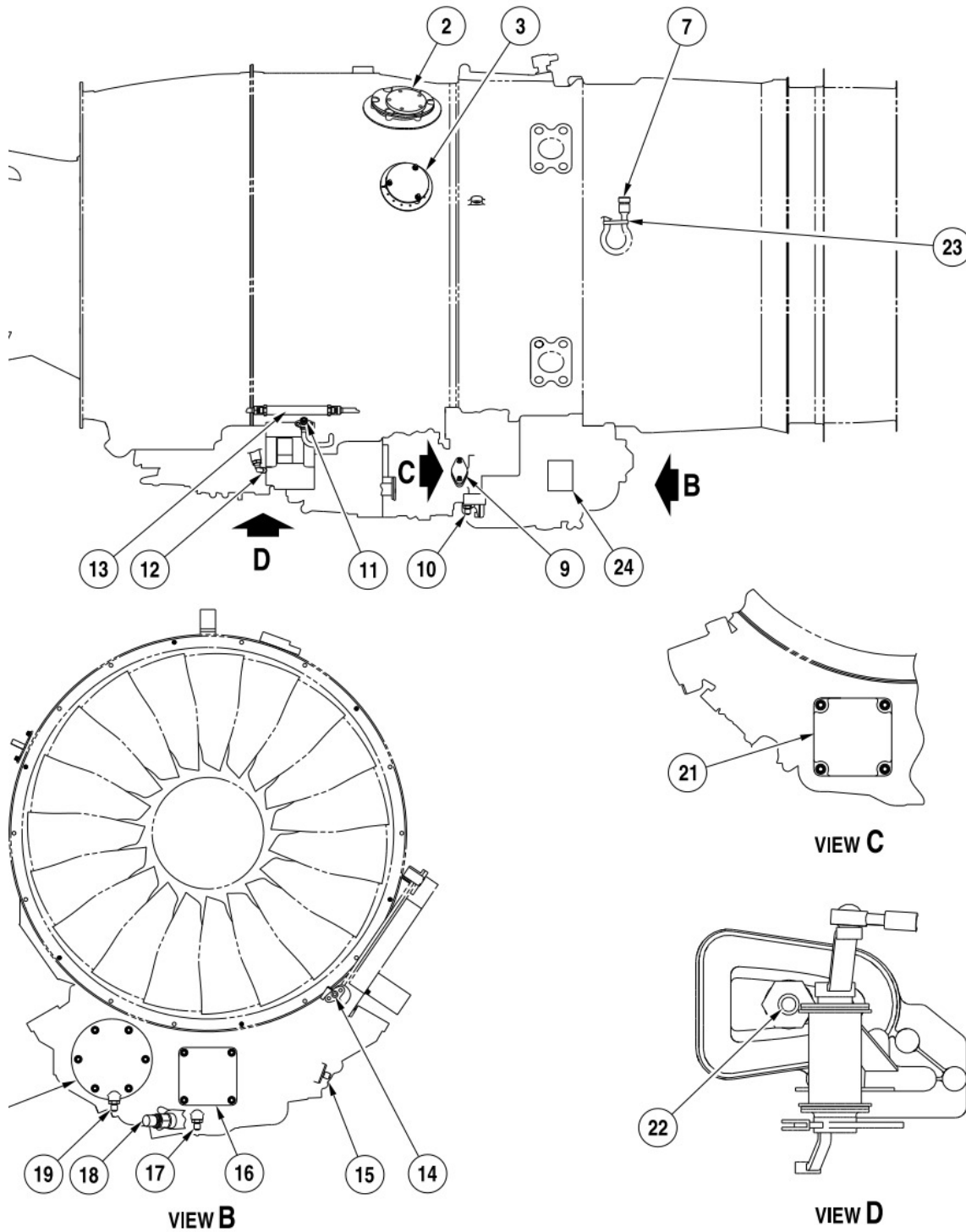
(SHEET 1 OF 2)



DETAIL A

c65687

(SHEET 2 OF 2)



c69470

1. Nose Cone Cover
2. Compressor Cabin Bleed Cover
3. Bypass Air (Starter and Alternator Cooling) Cover
4. Exhaust Duct Shipping Cover
5. Ignition Exciter Electrical Input Caps
6. Main Oil Temperature Cap
7. Electrical Dust Cap
8. Bypass Duct Protective Cushioning Wrap
9. Fuel Pump Main Supply Inlet Cover
10. Fuel Control Seal Drain Cap
11. Motive Flow Attachment Cover
12. Flow Divider Valve Cap
13. Fuel Flowmeter Spacer and Plug
14. High Pressure Connector Cap (For Differential Pressure Gauge)
15. Low Pressure Connector Cap (For Differential Pressure Gauge)
16. Starter Generator Cover
17. Starter Generator Seal Drain Cap
18. Chip Collector Cap (Optional Chip Detector Only)
19. Alternator Drain Cap
20. Alternator Drive Pad Cover
21. Hydraulic Pump Drive Pad Cover
22. Rear Fuel Drain Cap
23. Double Headed Tiedown Strap
24. AGB Retaining Plate
25. Desiccant

D. Reactivation of Desiccant and Humidity Indicator

- (1) Place bags of desiccant and humidity indicator in a suitable oven controlled at 121°C (250°F). The humidity indicator may be removed when an all blue color has been attained. The desiccant bags should remain in the oven for two hours minimum.
- (2) Allow oven to cool to room temperature (approximately 22°C (72°F)) and then remove bags and indicator as applicable.
- (3) Immediately place desiccant bags in airtight polyethylene envelopes. Exclude all air and heat-seal envelopes.

NOTE: Desiccant bags must be removed from polyethylene bags prior to installation in shipping/storage container.

E. Installation of Engine in Shipping Container (Ref. Fig. 303 and 304)

CAUTION: MAKE SURE THAT OIL HAS BEEN COMPLETELY DRAINED FROM THE ENGINE.

- (1) Make sure that the shipping container (10, Fig. 303) is serviceable.
- (2) Install shipping caps at the high and low pressure connections (14 and 15, Sheet 2, Fig. 304), at the starter generator seal drain (17), at the chip collector (18), and install a threaded shipping plug (6, Sheet 1) in the main oil temperature boss.
- (3) Apply anti-seize compound (PWC06-004) to stud threads and install the starter generator cover (16, Sheet 2) and secure using four washers and nuts. Torque nuts handtight.
- (4) Apply anti-seize compound to stud threads and install the alternator drive pad cover (20) and secure using six nuts and washers. Torque nuts handtight. Also install a shipping cap at the alternator drain (19).
- (5) Apply anti-seize compound to nut threads and install the hydraulic pump drive pad cover (21) and secure using four washers and nuts. Torque nuts handtight.
- (6) Install two electrical shipping caps (5, Sheet 1) at the ignition exciter and an electrical dust cap (7, Sheet 2) at the wiring harness airframe connector. Secure the loose wiring harness cable with tiedown strapping (23). Trim excess strapping.
- (7) Install an electrical shipping cap at the ground base support connection.
- (8) Check that the fuel shut off cable is correctly routed and secured, jam nuts are torqued and lockwired, and the lead seal is still intact.
- (9) Apply white silicone grease (PWC09-004) to the flight idle adjusting screw, if necessary.
- (10) Check that the fuel control lever and rod are correctly connected with a bolt locked by a cotter pin, the bellcrank assembly pivot bolt is locked with a cotter pin, and secure the bellcrank levers by aligning the thrust reverser lever with the throttle lever and passing a tie wrap (23, Sheet 1, Fig. 304) through the lever eyes. Secure the tie wrap and trim excess.
- (11) Check that the metering orifice at the bleed servo valve is correctly lockwired.
- (12) Install fuel flowmeter spacer (13, Sheet 2) with two protective plugs, torque to secure and lockwire.
- (13) Install shipping cap at the flow divider valve (12) drainage port.

- (14) Install a shipping gasket and cover over the fuel control inlet port (9). Apply engine oil (PWC03-001) to threads of two nuts and secure with two nuts and washers. Torque handtight. Install a shipping cap over the fuel pump drive drain (10).
- (15) Install two compressor cabin bleed covers (2, Sheets 1 and 2). Secure each cabin bleed cover with five nuts. Torque nuts handtight.
- (16) Install two bypass bleed cooling air covers (3). Apply engine oil (PWC03-001) to threads of six nuts. Secure each bypass bleed cooling air cover with three washers and nuts. Torque handtight.
- (17) Install the bypass accelerometer shipping plug and bracket. Apply engine oil (PWC03-001) to bolt threads and secure with two bolts and nuts. Torque bolts 36 to 40 lb.in. (4.1-4.5 Nm).
- (18) Install retaining plate (24, Sheet 2) on the lower right side of the AGB using four screws. Torque screws 9 to 11 lb.in. (1.0-1.2 Nm).
- (19) Apply the oil base corrosion preventive compound to the fan case/intermediate case flange and to the intermediate case/bypass duct flange. Complete coverage is required with a maximum overspray of 0.300 inch (7.6 mm) permitted. Attach eight bags of desiccant, four each side, along the bottom of the engine.

NOTE: Do not attach desiccant bags to the wiring harness.

- (20) Install the rear engine shipping container bracket (11, Fig. 303) and plate. Secure with nine washers, bolts and nuts. Torque bolts 32 to 36 lb.in. (3.6-4.1 Nm).

NOTE: Assemble washers under bolt heads first, then bracket, engine flange and plate follow.

- (21) Apply engine oil (PWC03-001) to threads of six bolts. Install nose cone shipping cover (1, Sheet 1) and secure with six bolts, washers and nuts. Torque bolts until cover is secured.

NOTE: Assemble washers under nuts.

- (22) Install rear engine lifting bracket (PWC67425) at the exhaust flange. Apply engine oil (PWC03-001) to threads of seven bolts. Secure the bracket with seven bolts, washers and nuts. Torque 36 to 40 lb.in. (4.1-4.5 Nm). Attach sling (PWC66106) to engine lifting brackets (3 locations).

CAUTION: DO NOT USE STANDARD COMMERCIAL HARDWARE TO SECURE ENGINE SUPPORT BRACKETS TO ENGINE OR CONTAINER. USE OF HARDWARE OF LOWER STRENGTH THAN SPECIFIED COULD CAUSE SERIOUS ENGINE DAMAGE DURING SHIPPING.

- (23) Refer to Subpara. B. for hoist capacities.
- (24) Fit the protective envelope (5, Fig. 303) around the base of the engine and hold in place by installing the front engine mount brackets. Secure the brackets using four bolts for each bracket. Torque bolts 275 to 300 lb.in. (31.1-33.9 Nm.) and lockwire.
- (25) Place engine log book, log sheets and other relevant papers to be shipped with engine, in a waterproof envelope and seal with pressure sensitive tape. Place two P3 air cover gaskets and two cooling air tube gaskets in two packaging envelopes and seal with tape. Place the

waterproof envelope, the packaging envelopes, the rear heat shield wrapped in cushioning material and a white binder, in the document storage box (9) and seal with tape. Secure the sealed box with tape to the floor at the rear of the skid.

CAUTION: WHEN ENGINE IS LOWERED INTO THE CRADLE, BE CAREFUL TO AVOID DAMAGING THE OIL LEVEL SIGHT GLASS AND P3 AIR TUBE.

- (26) Apply engine oil (PWC03-001) to threads of two bolts. Secure the front engine mount brackets with the cradle left and right front mount brackets with a bolt, washer and nut on each side. Torque the bolts to 450 to 500 lb.in. (50.8-56.5 Nm).
 - (27) Apply engine oil (PWC03-001) to threads of four screws. Fit the protective envelope (5, Fig. 303) between the cradle frame and the cradle rear mount brackets (12). Secure the brackets to the frame using four washers and screws. Torque screws 250 to 270 lb.in. (28.2-30.5 Nm).
 - (28) Apply engine oil on the threads of two clevises/rod ends. Adjust the linkages of each clevis to equal amounts of thread and secure the clevises/rod ends with lock nuts torqued at 32 to 36 lb.in. (3.6-4.1 Nm). Install a clevis/rod end (13) on each side of the rear engine shipping container bracket (11) using two shoulder screws, washers and nuts. Assemble the clevis/rod end to the cradle rear mount brackets (12) using two shoulder screws, washers and nuts. Torque the four screws 40 to 50 lb.in. (4.5-5.6 Nm).
 - (29) Adjust the linkages of two turnbuckles/clevis/rod ends to equal amounts of thread on each end leaving the lock nuts loose.
 - (30) Install the two turnbuckles/clevis/rod ends (14) to the cradle frame using two shoulder bolts, spacers, washers and nuts. Torque the shoulder bolts 115 to 130 lb.in. (13.0-14.7 Nm).
- NOTE:** 1. Make sure the engine envelope (5) is assembled between the spacer and cradle frame.
- NOTE:** 2. Make sure the envelope gasket does not rotate during the torquing process.
- (31) Connect the turnbuckle/rod ends to the rear engine shipping container bracket (11) with two shoulder bolts, spacers, washers and nuts. Torque shoulder bolts 115 to 130 lb.in. (13.0-14.7 Nm).
 - (32) Tighten the turnbuckle until the clevis is in tension to 5 lb.in. (0.6 Nm). Torque the lock nuts 135 to 150 lb.in. (15.2-17.0 Nm).
 - (33) Remove engine sling (PWC66106) and rear engine lifting bracket (PWC67425).
 - (34) Apply engine oil (PWC03-001) to threads of 12 bolts. Install the exhaust duct shipping cover (4, Sheet 1, Fig. 304) with heat shields, if required. Secure the exhaust cover with 12 bolts, washers and nuts at the airframe mounting brackets. Torque the bolts handtight. Apply engine oil to threads of two bolts. Secure the cover with two bolts, washers and nuts at the shipping container mounting bracket. Torque the bolts 32 to 36 lb.in. (3.6-4.1 Nm). Apply engine oil to threads of three bolts. Finally, secure the exhaust duct cover onto the engine with three bolts, washers and nuts torqued handtight.

NOTE: Assemble washers under nuts.

- (35) Wrap the engine bypass duct with cushioning material (8). Secure with tape.

NOTE: Do not drag cushioning material over the bypass duct.

- (36) Tie four bags of desiccant (25) evenly distributed along the upper part, on both sides of the engine.

NOTE: Do not attach desiccant to the wiring harness.

- (37) Prior to the installation of the mount pad covers, apply a thin coat of silicone grease (PWC09-003) to the contact faces of the covers. Install the covers at the upper left and upper right mount pad locations. Apply engine oil (PWC03-001) to the threads of eight bolts. Secure the covers with eight bolts and washers. Torque bolts 36 to 40 lb.in. (4.1-4.5 Nm).

NOTE: Shipping covers are installed with the part number identification facing outboard.

- (38) Install all other required shipping covers, plugs and caps, as necessary (Ref. Fig. 304).
- (39) Install humidity indicator in shipping container. Torque handtight.
- (40) Place preservation tag into a plastic bag and seal. Secure the bag to the rear packaging cover using tape, with the preservation tag facing upwards and further secure the bag with lockwire to the bypass duct flange.
- (41) Encase the remainder of the engine with the protective envelope (5, Fig. 303). Evacuate and heat seal the engine envelope, folding it neatly to make sure the humidity indicator visibility through the container window. Secure the envelope with tape.
- (42) Lower shipping container box over the engine using sling (PWC60988), making sure the outer sleeve cutout aligns with the humidity indicator window (7). Place fiberboard sleeve and cover in position on skid base assembly. Secure cover flaps with pressure sensitive tape at corners.
- (43) Stencil engine model number, serial number, and pertinent preservation and inspection dates on both ends of the container.

NOTE: Use the following abbreviations for the inspection/preservation dates:
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

- (44) Attach an envelope containing shipping instructions (8) on the shipping container using tape. Attach to the container, with the engine serial number visible.
- (45) Strap container to skid base assembly with six sets of 3/4 inch steel strapping (1). Fit 24 corners (6), as applicable.

7. Preservation/Depreservation

NOTE: 1. The following preservation and depreservation requirements are highly recommended. The non-compliance to these procedures for a subject engine requires a review of circumstances and engine condition by P&WC prior to returning engine in service. Depending on circumstances, recommendations aimed at ensuring serviceability of the engine, may range from a field-level workscope to an engine shop visit. Furthermore, over and above any shop related charges, the development of a customized workscope may be charged to the operator by P&WC.

NOTE: 2. The review of circumstances will require the operator to provide a letter or other document to the Customer First Centre containing the following information for each

engine:

- Customer and/or Operator Name.
- Engine Type and S/N.
- Engine TTSN / TCSN.
- Average Daily Usage (ADU) prior to engine preservation.
- Geographical area where the engine has operated before preservation.
- Type of preservation schedule (if any).
- Atmospheric conditions in which the engine was stored (air temperature, relative humidity).
- Details on how the engine was preserved or if was not preserved at all.
- Elapsed time after engine preservation limit.
- Any other information susceptible of determining the condition of the engine.

A. Preservation

(1) Regular operation as alternative to preservation of inactive engines:

(a) For engines installed on aircraft, running the engine once a week is an acceptable alternative to avoid the preservation procedures outlined below. This prevents stagnation of fuel in the fuel system, reduces humidity and condensation accumulation in the oil system.

1 Do a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (Example: T0 - 5% N1) and ending with five minutes at idle. Check for oil leaks and oil consumption and correct as necessary. Make sure oil temperature reaches 70°C (158°F) minimum.

(b) For engines installed on aircraft, running the engine every 28 days for periods of six months or more will require the following maintenance activities prior to return to active service.

1 Do a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (Example: T0 - 5% N1) and ending with five minutes at idle. Check for oil leaks and oil consumption and correct as necessary. Make sure oil temperature reaches 70°C (158°F) minimum.

2 Install covers as per 1 to 7 days requirements.

3 Preserve as per 8 to 28 days requirements.

(2) The following engine preservation schedule lists procedures to be followed (Ref. Table 302):

CAUTION: UNDER NO CIRCUMSTANCES SHOULD PRESERVATIVE OIL BE SPRAYED INTO COMPRESSOR OR TURBINE ENDS OF ENGINES. DIRT PARTICLES DEPOSITED ON BLADES AND VANES COULD ADHERE AND ALTER THE AIRFOIL SHAPE, ADVERSELY AFFECTING ENGINE EFFICIENCY.

- (a) 1 to 7 days - Engines can be left in an inactive state, with no preservation protection, provided engine is sheltered, humidity is not excessively high and engine is not subjected to extreme temperature changes which would produce condensation. Standard engine covers installed to prevent too much windmilling, ingress of foreign objects, water and ice.
- (b) 8 to 28 days - Engine inactive for up to 28 days, require no preservation provided all engine openings are sealed off and relative humidity in engine is maintained at less than 40 percent. Humidity control is maintained by placing desiccant bags and humidity indicator on wooden racks in engine exhaust duct. Suitable windows must be provided in exhaust closure to facilitate observation of humidity indicators. Make sure that the desiccant bags do not touch the engine components. The cowl drain hole must not be clogged.
- (c) 29 to 90 days - Engine inactive for a period exceeding 28 days, but less than 90 days, need to have fuel system preserved (Ref. Step (3) following), in addition to Steps (2)(a) and (2)(b).
- (d) 91 days and over - Engines inactive over 90 days in airframe or removed for long term storage in container, must, in addition to Steps (2)(a), (2)(b) and (2)(c), have engine oil drained. Remove cover plates from unused accessory drive pads and spray exposed surfaces and gearshafts with engine oil (PWC03-001). Replace cover plates. In addition, apply rust inhibitor (PWC15-011) or (PWC15-011A) to intermediate case and AGB external flanges including engine mount locations.
- (e) Engines removed for long term storage in a container also must be stored as per Para. 6. above and recorded in log book. Containers must be stored indoors.

Table 302 Preservation Schedule

Duration (Days)	Install Engine Covers or Seal Engine (Ref. Note 1)	Maintain Relative Humidity	Preserve Fuel System	Drain Oil (Ref. Note 2)	Apply Oil to AGB & Intercase (Ref. Note 2)	De-Salination Wash (Ref. Note 4)
1 - 7 Days	Covers	No	No	No	No	No
8 - 28 Days	Sealed	Yes	No	No	No	No
29 - 90 Days	Sealed	Yes	Yes	No	No	Yes
91 Days	Sealed	Yes	Yes	Yes	Yes	Yes

Duration (Days) and over	Install Engine Covers or Seal Engine (Ref. Note 1)	Maintain Relative Humidity	Preserve Fuel System	Drain Oil (Ref. Note 2)	Apply Oil to AGB & Intercase (Ref. Note 2)	De-Salination Wash (Ref. Note 4)
NOTE: 1. The cowl drain hole must not be clogged.						
NOTE: 2. Refer to Para. 7. A. Step (2)(d).						
NOTE: 3. If humidity is below 40%, a desalination wash is recommended but not required.						
NOTE: 4. Applicable if engine has been exposed to a salt laden environment and not subsequently washed.						

- (3) Carry out preservation of engine fuel system (engine inactive for more than 28 days) as follows:

CAUTION: EXTREME CARE MUST BE TAKEN TO PREVENT FOREIGN MATERIAL FROM BEING DRAWN INTO ENGINE FUEL SYSTEM. EQUIPMENT MUST BE SUPPLIED WITH SUITABLE FILTERS NO COARSER THAN 10 MICRON RATING.

- (a) Close airframe fuel supply and disconnect fuel inlet supply to fuel pump.
- (b) Disconnect motive flow fuel line at junction downstream of flow divider valve and FCU. This is to prevent preservation oil from being pumped into the aircraft motive flow system.
- (c) Disconnect fuel lines to manifold at flow divider valve.
- (d) Connect corrosion preservative oil supply line to fuel pump inlet.
- (e) Fill with preservative oil (PWC05-077) at a pressure of 5 to 25 psig (34.47 - 172.36 kPa) and at a minimum temperature of 16 °C (60.8 °F).

CAUTION: OBSERVE STARTER MOTOR OPERATING LIMITS.

- (f) Perform a 30 second wet motoring run (Ref. 71-00-00, ADJUSTMENT/TEST). Make sure that preserving oil is flowing from fuel lines into waste container. Repeat, if necessary.
- (g) Turn off preserving oil supply.
- (h) Drain preserving oil from fuel filter housing by removing drain plug at bottom of housing.
- (i) Install new preformed packing on drain plug and install drain plug in fuel filter housing (Ref. 73-10-06).
- (j) Disconnect and remove all flushing oil supply and reconnect all disconnected fuel lines.
- (k) Install all plugs, caps and covers, as required, to prevent entry of foreign material and

accumulation of moisture.

- (l) Check for external preserving oil leaks.
- (m) Tag engine and power control lever in aircraft cabin, as applicable, with a warning prohibiting cranking of engine and include date of preservation of engine.

B. Depreservation

CAUTION: P&WC HAS REMOVED APPROVAL FOR THE USE OF THIRD GENERATION (TYPE II HTS) LUBRICANTS. P&WC RECOMMENDS SWITCHING TO THE USE OF AN APPROVED LUBRICANT.

- (1) Depreservation Schedule
 - (a) 1 to 7 days - No depreservation required.
 - (b) 8 to 28 days - Desiccant and moisture barriers must be removed. Ensure that all previously sealed engine openings are reopened and are unobstructed.
 - (c) 29 to 90 days - Remove engine intake and exhaust covers together with desiccant and humidity indicators. Depreserve engine fuel system.
 - (d) 91 days and over - Engine must be completely depreserved and lubrication system serviced.
- (2) Depreservation Procedure
 - (a) For engines preserved for 91 days and over, replace the following AGB seals if third generation oil was previously used (Ref. 72-00-00, ENGINE GENERAL - DESCRIPTION AND OPERATION).
 - 1 Hydraulic Pump Gearshaft Seal (Ref. 72-60-01, ACCESSORY GEARBOX - MAINTENANCE PRACTICES).
 - 2 Pre-SB30364 only: Fuel Control Gearshaft Seal (Ref. 72-60-01, ACCESSORY GEARBOX - MAINTENANCE PRACTICES).
 - 3 Pre-SB30364 only: Accessory Drive Gearshaft Rear Seal (Ref. 72-60-01, ACCESSORY GEARBOX - MAINTENANCE PRACTICES).
 - 4 Pre-SB30245 only: Accessory Drive Gearshaft Front Seal (Ref. 72-60-01, ACCESSORY GEARBOX - MAINTENANCE PRACTICES).
 - 5 Pre-SB30240 only: Accessory Drive Gearshaft Front Seal (Ref. 72-60-01, ACCESSORY GEARBOX - MAINTENANCE PRACTICES).
 - (b) Replace oil filter (Ref. 79-20-01, OIL FILTER - MAINTENANCE PRACTICES).
 - (c) Replace fuel filter (Ref. 73-10-05, FUEL FILTER - MAINTENANCE PRACTICES).
 - (d) Sump aircraft fuel tanks for the presence of water (Ref. AMM).
 - (e) Do a desalination wash (Ref. 71-00-00, POWER PLANT - CLEANING).
 - (f) Fill engine oil tank with approved oil.

NOTE: The lubricating oil system does not require any depreservation procedures.

- (g) Disconnect the primary and secondary fuel lines at the FDV.
- (h) Install a suitable flexible line at both the primary and secondary outlets from the FDV and insert the other end of the flexible lines into an open waste container.
- (i) Connect airframe fuel supply to fuel pump inlet.

CAUTION: OBSERVE STARTER MOTOR OPERATING LIMITS.

- (j) Perform a 30 second wet motoring run (Ref. 71-00-00, ADJUSTMENT/TEST) and ensure clean airframe supplied fuel is flowing from both fuel lines. Repeat, if necessary.
- (k) Install new preformed packings on fuel lines and install on fuel dump valve.
- (l) Perform a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (ex: TO-5% N1) and ending with five minutes at idle. Verify for oil leaks and oil consumption and correct as necessary.

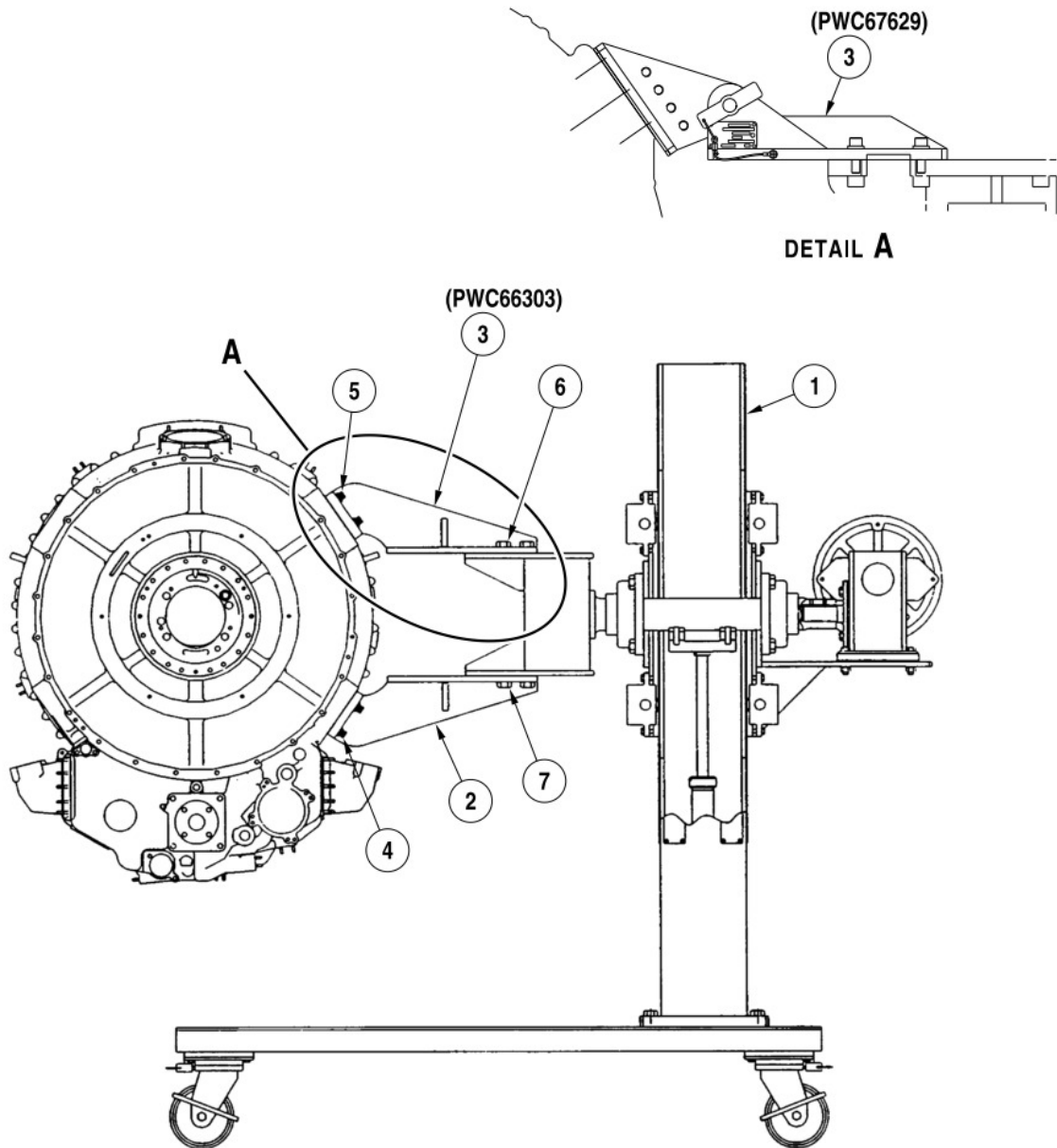
C. Regular Operation for Depreservation Requirements of Inactive Engines

- (1) For engines installed on aircraft, running the engine once a week is an acceptable alternative to avoid the preservation procedures outlined above. This prevents stagnation of fuel in the fuel system, reduces humidity and condensation accumulation in the oil system. Depreservation requirements are not necessary.
- (2) For engines installed on aircraft, running the engine every 28 days for periods of six months or more will require the following maintenance activities prior to return to active service.
 - (a) Depreservation procedure outlined in Para. 7. B. (2) above.
 - (b) Service engine per Para. 5. above.
 - (c) Perform a dry motoring run, verify for oil leaks and correct as necessary.
 - (d) Perform a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (ex: TO-5% N1) and ending with five minutes at idle. Verify for oil leaks and oil consumption and correct as necessary.

8. Installation/Removal on/from Maintenance Stand

- A. Installation of Engine on Maintenance Stand (Ref. Fig. 305)

Figure 305 Engine on Maintenance Stand (Typical)



c95935

1. Maintenance Stand (PWC67000) or (PWC67553)
2. Lower Support Bracket (PWC66304)
3. Upper Support Bracket (PWC66303) or (PWC67629)
4. Bolt
5. Bolt
6. Bolt
7. Bolt

- (1) Make sure stand wheels are locked.

CAUTION: DO NOT ALLOW ENGINE TO CONTACT ANY PART OF ENGINE STAND WHEN LOWERING.

- (2) If necessary tilt the engine up or down to 20 degrees maximum.
- (3) Lift the engine using sling (PWC66106) and chain hoist and position on maintenance stand (1)(PWC67000) or (PWC67553).

NOTE: Bolts (6 and 7) on support brackets (2) and (3) must be finger tight.

- (4) Install lower support bracket (2)(PWC66304) using four bolts (4). Tighten finger tight.
- (5) Install upper support bracket (3)(PWC66303) or (PWC67629) using four bolts (5). Tighten finger tight.
- (6) Install oil pans (PWC67560) and (PWC67585) using bolts. Tighten finger tight.
- (7) Torque bolts (4, 5, 6 and 7) 275 to 300 lb.in. (31-33 Nm).
- (8) Remove the sling.

B. Removal of Engine from Maintenance Stand (Ref. Fig. 305)

- (1) Install sling (PWC66106) and chain hoist on the engine and take up the weight.

CAUTION: DO NOT ALLOW ENGINE TO CONTACT ANY PART OF ENGINE STAND WHEN RAISING.

- (2) Remove four bolts (4) from lower support bracket (PWC66304) and 4 bolts (5) from upper support bracket (PWC66303) or (PWC67629) and remove the engine.

9. Configuration of Engine for LH or RH Installation

NOTE: Left Hand or Right Hand installation of the engine on the aircraft may require relocation of the following hardware.

A. Wiring Harness

- (1) Relocate wiring harness in accordance with Removal/Installation procedure (Ref. 73-20-02 MAINTENANCE PRACTICES).

B. EEC

- (1) Relocate EEC in accordance with Removal/Installation procedure (Ref. 73-20-03 MAINTENANCE PRACTICES).

C. Oil Filler Cap and Adapter

- (1) Relocate oil filler cap and adapter in accordance with Removal/Installation procedure (Ref. 79-30-03 MAINTENANCE PRACTICES).

D. Oil Filler Pressure Cap

- (1) Relocate oil filler pressure cap in accordance with Removal/Installation procedure (Ref. 79-30-03 MAINTENANCE PRACTICES).

E. Engine Rear Mount Bracket

- (1) Relocate the engine rear mount bracket in accordance with Removal/Installation procedure (Ref. 72-70-01 MAINTENANCE PRACTICES).



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ANEXO 2

REGISTROS

OS 81606

OS 97706

Jundiaí

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Lote 1234 - Chácara Aeroporto
13212-010 - Jundiaí, SP
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Rio de Janeiro

Aerop. Santos Dumont, Balcão
20021-340 - Rio de Janeiro. RJ
Tel.: 55 21 2220.4660

Brasília

Aerop. Internacional de Brasília
Setor de Hangares L 29/30
71608-900 - Brasília, DF
Tel.: 55 61 3365.1234

Belo Horizonte - Pátio Norte

Aeroporto da Pampulha
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31710-410 - Belo Horizonte, MG
Tel.: 55 31 3497.3888
Fax: 55 31 3427.8227

CADERNETA DE MOTOR Nº 02 / PW549B / 108 NÚMERO DE SÉRIE: PCE-DD0160



Maintenance Transaction Record

MTR ID # 2444706
Page 1 of 1

This Maintenance Report is To Be Used Solely For (Check One)



Airframe Entries

Eng. #1 Serial No. PCE-DD0160

Eng. #2 Serial No. _____

APU Serial No. _____

CAMP Systems International
8200 E. 34TH STREET
BUILDING 1600, SUITE 1607
Wichita, KS 67226
Phone: 316-462-2267/ Fax: 316-462-0791

REPAROS

ABILIDADE

SINATURA INSPECTOR

Aircraft Identification and Status													
A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Total Hrs	Engine 2 Total Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
560-5579	5579	PP-RST	06-Nov-2015	SBUD	2280.9	1676	2280.9	2280.9	1649	1649	651.8	1,322	

Item	Transaction No. Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status TSNTSO/TSR	Material Costs	Man Hours
720040	1 2	NO. 1 ENGINE - INSPECT FOR CORROSION THE BLEED VALVE SEAT ON THE INTERMEDIATE CASE AND MAIN INTERMEDIATE CASE FLANGES - USE BORESCOPE WHERE REQUIRED								
		Comments: Performed 1000 Hours / 12 Months Inspection - "Inspect for Corrosion the Bleed Valve Seat on the Intermediate Case and Main Intermediate Case Flanges". I.A.W. E.M.M. Pratt & Whitney PN 30J2242 Rev. 19.								
057120	2 2	NO. 1 ENGINE - INSPECTION LOW UTILIZATION								
		Comments: Performed Engine Low Utilization inspection, I.A.W. E.M.M. Pratt & Whitney PN 30J2242 Rev. 19.								
057159	3 2	NO. 1 ENGINE - MINOR INSPECTION								
		Comments: Performed Minor Inspection, I.A.W. E.M.M. Pratt & Whitney PN 30J2242 Rev. 19.								
751030	4 2	NO. 1 ENGINE - REPLACE INTERCOMPRESSOR BLEED VALVE SERVO VALVE								
		Comments: Replaced Intercompressor Bleed Valve Servo Valve, I.A.W. P&WC SB 30420R4. Removed P/N 31J2857-04 S/N TR0407 Installed P/N 30J3490-01 S/N TR7685 (New) - Form 8130-3 # 641275, dated May/12/2015, issued by Cessna Aircraft Company								
MISC	5 2	NO. 1 ENGINE - PRESERVATION - 91 DAYS AND OVER								
		Comments: Performed Engine Preservation for 91 Days and Over, I.A.W. E.M.M. Pratt & Whitney PN 30J2242 Rev. 19. Chapter 72-00-00 - Table 302.								

Trank. Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, - Misc

Removal Reasons: WO - Work to Limits, SC - Scheduled, UN - Unscheduled, CO - Convenience, N - Other (note in comments)

Installed Part Status: N - New, R - Replaced/Rebuilt, S - Serviceable, O - Overauled

Repair Facility: TAM AVIACAO EXECUTIVA E TAXI AEREO S.A. Certified Repair Station Number: COM # 6905-01/ANAC Work Order No.: 81608 Date: 06-Nov-2015

Work Performed By: TAM AVIACAO EXECUTIVA E TAXI AEREO S.A. Certificate No.: COM # 6905-01/ANAC

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the _____ and _____
 Federal Aviation Administration Other (Specify) ANAC / BRAZIL

THE AIRCRAFT IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY AND APPROVED FOR RETURN TO SERVICE

Work Inspected By: SAULO LISBOA VIEIRA Certificate No.: COD ANAC # 114259 Date: 06-Nov-2015

Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.

Maintenance Log	
Section	Page

CADERNETA DE MOTOR Nº 02 1PW545B 108 NÚMERO DE SÉRIE: PCE-DD0369

PA



Airframe Entries

Eng. #1 Serial No.

Eng. #2 Serial No. PCE-DD0164

APU Serial No.

MTR ID # 2444713
Page 1 of 1

CAMP Systems International
8200 E. 34TH STREET
BUILDING 1600, SUITE 1607
Wichita, KS 67226
Phone: 316-462-2267/ Fax: 316-462-0791

PAROS

DADE

URA
TOR

D

A/C Serial #	A/C Unit #	A/C Registration #	Date	City ID	Total A/C Hours	Total A/C Landings	Engine 1 Total Hrs	Engine 2 Total Hrs	Engine 1 Ttl Cycles	Engine 2 Ttl Cycles	APU Hrs	APU Events	Freon Hrs
560-5679	5579	PP-RST	06-Nov-2015	SBJD	2280.9	1676	2280.9	2280.9	1649	1649	651.8	1.322	

Component Changes, Inspections, Service Bulletins, or Airworthiness Directives Accomplished

Item	Transaction No. Type	Item Name	Position	Part Number / Alternate Part	Mod Level	Part Serial	Removal Reason	Installed Part Status TSN/TSO/TSR	Material Costs	Man Hours
720040	1 2	NO. 2 ENGINE - INSPECT FOR CORROSION THE BLEED VALVE SEAT ON THE INTERMEDIATE CASE AND MAIN INTERMEDIATE CASE FLANGES - USE BORESCOPE WHERE REQUIRED								
Comments: Performed 1000 Hours / 12 Months Inspection - "inspect for Corrosion the Bleed Valve Seat on the Intermediate Case and Main Intermediate Case Flanges", I A W. E M M. Pratt & Whitney PN 30J2242 Rev. 19										
057120	2 2	NO. 2 ENGINE - INSPECTION LOW UTILIZATION								
Comments: Performed Engine Low Utilization inspection, I A W. E M M. Pratt & Whitney PN 30J2242 Rev. 19										
057159	3 2	NO. 2 ENGINE - MINOR INSPECTION								
Comments: Performed Minor Inspection, I A W. E M M. Pratt & Whitney PN 30J2242 Rev. 19										
751030	4 2	NO. 2 ENGINE - REPLACE INTERCOMPRESSOR BLEED VALVE SERVO VALVE								
Comments: Replaced Intercompressor Bleed Valve Servo Valve, I A W P&WC SB 30420R4. Removed P/N 31J2857-04 S/N TR1973 Installed P/N 30J3490-01 S/N TR8066 (New) - Form 8130-3 # 4703464, dated Aug/20/2015, issued by Textron Aviation Inc										
MISC	5 2	NO. 2 ENGINE - PRESERVATION - 91 DAYS AND OVER								
Comments: Performed Engine Preservation for 91 Days and Over, I A W. E M M. Pratt & Whitney PN 30J2242 Rev. 19, Chapter 72-00-00 - Table 302.										

Trans. Type: 1 - Component, 2 - Inspection, 3 - SB, 4 - AD, -- Misc. Removal Reasons: WC - Work Limits, SC - Scheduled, UN - Undispatched, CO - Convenience, N - Other (note in comments)

Repair Facility: TAM AVIACAO EXECUTIVA E TAXI AEREO S A Certified Repair Station Number: COM # 6905-01/ANAC Work Order No. 81808 Date 06-Nov-2015

Work Performed By: TAM AVIACAO EXECUTIVA E TAXI AEREO S A Certificate No. COM # 6905-01/ANAC



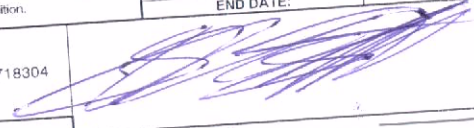
I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the _____ and _____
 Federal Aviation Administration
 Other (Specify) ANAC / BRAZIL

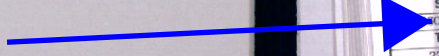
THE AIRCRAFT IDENTIFIED ABOVE IS PRESENTLY AIRWORTHY AND APPROVED FOR RETURN TO SERVICE

Work Inspected By: SAULO LISBOA VIEIRA Certificate No. COD ANAC # 114259 Date 06-Nov-2015


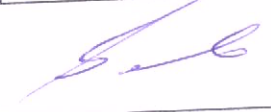
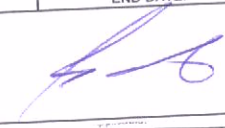
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable

Maintenance Log	
Section	Page

		TAM AVIAÇÃO EXECUTIVA E TAXI AEREO SA Aeroporto Cmte. Holim A. Amaro - Jundiaí/SP				COM Nº 6905-01/ANAC FAA QL4Y470M ANAC DA 1-B-239 DGAC E-371 DINAC Nº 037E							
		W.O. RECORD FORM - TM-026/03		PW545B SERIAL NUMBER PCE-DD0160		W.O. 97706							
RECORD TYPE:		ENGINE #1	MODEL:		PW545B		SERIAL NUMBER PCE-DD0160		W.O. 97706				
AIRCRAFT IDENTIFICATION AND STATUS													
REGISTRATION PP-RST S/N 56-5579 TSN 2280.4		MODEL 560XL MANUF. EXTRON AVIATION CSN 1678		ENGINE 1 MANUF. PRATT & WHITNEY MODEL PW545B S/N PCE-DD0160 TSN 2280.4 CSN 1651		ENGINE 2 MANUF. PRATT & WHITNEY MODEL PW545B S/N PCE-DD0164 TSN 2280.4 CSN 1651		PROPELLER 1 MANUF. N/A MODEL N/A S/N N/A TSN N/A		PROPELLER 2 MANUF. N/A MODEL N/A S/N N/A TSN N/A		APU MANUF. N/A MODEL N/A S/N N/A TSN N/A CSN N/A	
COMPONENT CHANGES, INSPECTIONS, SERVICE BULLETINS, OR AIRWORTHINESS DIRECTIVES ACCOMPLISHED													
Performed LH Engine Preservation (more than 90 days since 18/Mar/2019). I.A.W MM Pratt & Whitney 545B Chapter 72 00-00 Rev. 27 Jan.2019.													
We certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of ANAC BR													
We certify this ENGINE was inspected/repared I.A.W. above items and it was determined to be approved for return to service.													
MAINTENANCE INSPECTOR: SAULO LISBOA VIEIRA		CERTIFICATE: CÓD. ANAC - Nº 114259				INITIAL DATE: 14/mar/2019 LOCATION: SBJD END DATE: 18/mar/2019		W.O. 84282		COM Nº 6905-01/ANAC FAA QL4Y470M ANAC DA 1-B-239 DGAC E-371 OMAF Nº 037F			
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.													
We certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of ANAC BR													
We certify this ENGINE was inspected/repared I.A.W. above items and it was determined to be in airworthy condition.													
MAINTENANCE INSPECTOR: VLADILS		CERTIFICATE: CÓD. ANAC - Nº 718304				INITIAL DATE: 21/dez/2016 LOCATION: SBJD END DATE: 14/dez/2017		W.O. 84282		COM Nº 6905-01/ANAC FAA QL4Y470M ANAC DA 1-B-239 DGAC E-371 OMAF Nº 037F			
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.													
Work Inspected By VLADILSON SALDANHA CARDOSO Certificate No. COD. ANAC NO. 718304 Date 30-May-2016													
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable.													



OS 97706 - 18/MAR/2019 - MOTOR RH - PCE-DD0164

		TAM AVIAÇÃO EXECUTIVA E TAXI AÉREO SA Aeroporto Cmte. Rolim A. Amaro - Jundiaí/SP						COM Nº 6905-01/ANAC FAA 014Y470M ANAC DA 1-B-239 DGAC E-371 DINAC Nº 037E			
		W.O. RECORD FORM - TM 026/03		RECORD TYPE:	ENGINE #2	MODEL:	PW545B	SERIAL NUMBER	PCE-DD0164	W.O.	97706
AIRCRAFT IDENTIFICATION AND STATUS											
REGISTRATION		MODEL	ENGINE 1		ENGINE 2		PROPELLER 1		PROPELLER 2		APU
PP-RST	560XL	MANUF.	PRATT & WHITNEY	MANUF.	PRATT & WHITNEY	MANUF.	N/A	MANUF.	N/A	MANUF.	N/A
S/N	MANUF.	MODEL	PW545B	MODEL	PW545B	MODEL	N/A	MODEL	N/A	MODEL	N/A
56 5579	EXTRON AVIATION	S/N	PCE-DD0160	S/N	PCE-DD0164	S/N	N/A	S/N	N/A	TSN	N/A
TSN	CSN	TSN	2280.4	TSN	2280.4	TSN	N/A	TSN	N/A	CSN	N/A
2280.4	1678	CSN	1651	CSN	1651	FREON HOURS		N/A		CSN	N/A
COMPONENT CHANGES, INSPECTIONS, SERVICE BULLETINS, OR AIRWORTHINESS DIRECTIVES ACCOMPLISHED											
Performed RH Engine Preservation (more than 90 days since 18/Mar/2019). I.A.W MM Pratt & Whitney 545B Chapter 72-00-00 Rev. 27 Jan.2019.											
We certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of ANAC-BR											
We certify this ENGINE was inspected/repared I.A.W above items and it was determined to be approved for return to service											
MAINTENANCE INSPECTOR:		SAULO LISBOA VIEIRA		CERTIFICATE:		CÓD. ANAC - Nº 114259				INITIAL DATE: 14/mar/2019 LOCATION: SBJD END DATE: 18/mar/2019	
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable											
We certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of ANAC-BR											
We certify that ENGINE was inspected/repared I.A.W. above items and it was determined to be in airworthy condition											
MAINTENANCE INSPECTOR:		SAULO LISBOA VIEIRA		CERTIFICATE:		CÓD. ANAC - Nº 114259				DATE: 21/dez/2016 LOCATION: SBJD END DATE: 14/dez/2017	
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable											
Work Inspected By VLADILSON SALDANHA CRISTOVAM											
Pertinent details of this maintenance are on file at our facility under the above Work/Service Order Number as applicable											

Do164

COM Nº 6905-01/ANAC
 FAA 014Y470M
 ANAC DA 1-B-239
 DGAC E-371
 OMAF Nº 037E
 W.O. 84282

APU
 MANUF. N/A
 MODEL N/A
 S/N N/A
 TSN N/A
 CSN N/A

Performed



TAM Aviação Executiva e Táxi Aéreo S.A.

Rua Monsenhor Antônio Pepe, nº 94

Jardim Aeroporto 04357-900 São Paulo - SP Brasil

Tel: +55 11 2890.7800 | Fax: +55 11 2890. 7856

Call Center Fretamento +55 11 4002.7000

Coordenação de Voo (24hs): +55 11 2890. 7756 | 28980 7753

www.tamaviacaoexecutiva.com.br

ANEXO 3

BOROSCÓPIO MOTORES

OS 84328

OS 94322

Jundiaí

Av. Emilio Antonon, s/nº
Lote 1234 - Chácara Aeroporto
13212-010 - Jundiaí, SP
Tel.: 55 11 4589.5500

Rio de Janeiro

Aerop. Santos Dumont, Balcão
20021-340 - Rio de Janeiro. RJ
Tel.: 55 21 2220.4660

Brasília

Aerop. Internacional de Brasília
Setor de Hangares L 29/30
71608-900 - Brasília, DF
Tel.: 55 61 3365.1234

Belo Horizonte - Pátio Norte

Aeroporto da Pampulha
Rua dos Hangares, 49
31710-410 - Belo Horizonte, MG
Tel.: 55 31 3497.3888
Fax: 55 31 3427.8227

CX 10/2016

ORDEM DE SERVIÇO (WORK ORDER)	PREFIXO (ACFT REG.)	DATA DE ENTRADA (DATE-IN)	DATA DE SAÍDA (DATE-OUT)
83428	PP-RST	08/07/2016	<i>13/07/16</i>

CÓDIGO (Code) : C06498

PROPRIETÁRIO (Acft. Owner) :

ENDEREÇO (Address) :

CIDADE (City) :

CGC/CPF (Braz. Acft. Only) :

OS TAM DE 2016 BOROSCÓPIO NOS MOTORES

TRIPULAÇÃO (Crew) :

LOCAL - FONE (Local - Phone) :

PREFIXO (Acft Reg. No.) : PP-RST

FABRICANTE (Manufacturer) :

MODELO (Model) : 560 XL-XLS

Nº SÉRIE (S/N) : 560-5579

Nº UNIDADE (Unit No.) : 5579

ANV. HORAS (Acft. Total Hours) : *2277,70*

ANV. POUSOS (Acft. Landings) : *1672*

TOTAL COMBUSTÍVEL (Total Fuel) :

TIPO DE ÓLEO (Oil Type) :

MOTOR LH (ENGINE LH)

MODELO (Model) : *PW 545B*

Nº SÉRIE (LH Eng. S/N) : *PCE-220160*

HORAS (LH Eng. Hours) : *2277,70*

CICLOS (LH Eng. Cycles) : *1647*

MOTOR RH (ENGINE RH)

MODELO (Model) : *PW 545B*

Nº SÉRIE (RH Eng. S/N) : *PCE-220162*

HORAS (RH Eng. Hours) : *2277,70*

CICLOS (RH Eng. Cycles) : *1647*

HÉLICE LH (PROPELLER LH)

MODELO (Model) :

Nº SÉRIE (LH Eng. S/N) :

HORAS (LH Eng. Hours) :

HÉLICE RH (PROPELLER RH)

MODELO (Model) :

Nº SÉRIE (RH Eng. S/N) :

HORAS (RH Eng. Hours) :

SERVIÇOS SOLICITADOS / EXECUTADOS (REQUESTED / ACCOMPLISHED SERVICES)

O DETALHAMENTO DOS SERVIÇOS ENCONTRAM-SE EM ANEXO, A SABER (SERVICES ARE DETAILED ON THE FOLLOWING ATTACHED FORMS):

VIDE DISCREPÂNCIA(S) EM ANEXO

NOTA: APÓS A SAÍDA DA AERONAVE, ESTA O.S. SERÁ ARQUIVADA ANEXANDO-SE TODOS OS REGISTROS DE SERVIÇOS QUE HOUVER DENTRE OS SEGUINTE: INSPEÇÃO DE RECEBIMENTO, FICHAS DE INSPEÇÃO, DISCREPÂNCIAS REPORTADAS E ENCONTRADAS, BOLETINS, DA'S, LAUDOS DE OFICINAS, ETIQUETAS DE AERONAVEGABILIDADE DOS MATERIAIS/COMPONENTES INCORPORADOS E SERVIÇOS ESPECIAIS OU MODIFICAÇÕES.

NOTE: After the aircraft leaves, this W.O. will be filed with all of the following reports: receiving inspection, inspection cards, reported and found discrepancies, bulletins, AD's, shop technical reports, incorporated material/components airworthiness tags and special work or modifications.

INSPEÇÃO PRELIMINAR COMPLETADA (Preliminary Inspection Completed)

por (by) : *NA*

INSPEÇÃO DE DANO OCULTO COMPLETADA (Hidden Damage Inspection Completed)

por (by) : *NA*

LIBERAÇÃO DA AERONAVE PARA RETORNO AO SERVIÇO (MAINTENANCE RELEASE)

A AERONAVE, CÉLULA OU MOTOR DA AERONAVE IDENTIFICADO ACIMA RECEBEU MANUTENÇÃO, MANUTENÇÃO PREVENTIVA, RECONSTRUÇÃO, ALTERAÇÃO, MODIFICAÇÃO, REVISÃO GERAL, REPARO E/OU INSPEÇÃO DE ACORDO COM INSTRUÇÕES ATUALIZADAS CONTIDAS NO MANUAL DE MANUTENÇÃO DO FABRICANTE, NOS REGULAMENTOS DE HOMOLOGAÇÃO AERONÁUTICA SOB OS QUAIS O OPERADOR ESTÁ HOMOLOGADO, E ESTÁ APROVADO(A) PARA RETORNO AO SERVIÇO, COM RESPEITO AS TAREFAS EXECUTADAS NESTA OS, SEGUNDO TAIS REQUISITOS. (The aircraft, airframe or aircraft engine identified above was maintained, preventively maintained, rebuilt, altered, modified, overhauled, repaired and/or inspected in accordance with current instructions contained in the manufacturer's maintenance manual, in the maintenance rules of the Federal Aviation Regulations under which the operator is certified and is approved for return to service, concerning the tasks performed in this W.O. , as per those requirements.)

ASSINADO POR (Signed by):

ANAC - COM 6905-01

FAA - *NA*

Outra (Other) - *NA*

TAM - AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A.

Vladilson Saldanha Cardoso
Inspetor
TAM AVIAÇÃO EXECUTIVA
Código ANAC:
nº 71830-4

APÓLICE DE SEGURO (INSURANCE POLICY)

SERÁ DE EXCLUSIVA RESPONSABILIDADE DO CLIENTE A POSSE E APRESENTAÇÃO, QUANDO SOLICITADA, DA APÓLICE DE SEGURO DA AERONAVE QUE PERMANECER NO HANGAR PARA A COBERTURA DE QUAISQUER RISCOS E DANOS DE PERMANÊNCIA NO SOLO, ACIDENTES, TRASLADOS E VÓOS DE EXPERIÊNCIA.
(The customer is responsible to have and show the aircraft insurance policy if requested, in order to cover the risks and damages concerning aircraft under maintenance, flight test, ferry flights and eventual accidents.)

LANÇADO
CEB COM

A handwritten signature in blue ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A.

CESSNA AUTHORIZED SERVICE CENTER

FICHA DE SERVIÇO (WORK SHEET)

TM 17/01

FICHA DE SERVIÇO(WORK SHEET)

ITEM(ITEM)	OS(W.O.)	PREFIXO(ACFT. REG)	SN	INÍCIO(DATE IN)	TÉRMINO (DATE OUT)
1	83428	PP-RST	560-5579	08/07/2016	08/7/2016

SERVIÇO (SERVICE REQUESTED)

EFETUAR INSPEÇÃO BOROSCOPICA NOS MOTORES

SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED)

EFETUADO INSPEÇÃO BOROSCÓPICA EM ABOS OS MOTORES CONFORME FICHA EM ANEXO.

MATERIAIS (MATERIALS)

DESCRIÇÃO (DESCRIPTION)	PN REMOVIDO (REMOVED)	QTD	SN REMOVIDO (REMOVED)

DESCRIÇÃO (DESCRIPTION)	PN INST. (INSTALLED)	QTD	SN INSTALADO (INSTALLED)

ASSINATURA E/OU CARIMBO, CONFORME APLICÁVEL
(SIGNATURE AND/OR STAMP, AS APPLICABLE)

MECÂNICO (MECHANIC)

INSPETOR (INSPECTOR)



	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 2 de (of) 17
	TM 040	No. FT MT-03-06

INFORMAÇÕES DO COMPONENTE (COMPONENT INFORMATION)		
Descrição Componente: (Part Description)	Part Number: (Part Number)	Número de Série: (Serial Number)
<i>Engine</i>	<i>PWC 545B</i>	<i>ME-000160</i>
Razão da Inspeção: (Reason of Inspection)	Removido da Posição: (Removed from position)	
<i>Pre Comp/A</i>	<i>LH</i>	

INFORMAÇÕES DA AERONAVE (AIRCRAFT INFORMATION)	
Prefixo da Aeronave: (Aaft. Reg.)	S/N Aeronave: (Aircraft S/N)
<i>PP-RST</i>	<i>560XL-5579</i>

ORDEM DE SERVIÇO (WORK ORDER)	
O.S. n°: (Work Order n°)	Item n°: (Item n°)
<i>83428</i>	<i>01</i>

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
Equipamentos necessários			
<ul style="list-style-type: none"> • Equipamento boroscópico PWC37711 ou equivalente. (Boroscope equipment PWC37711 or equivalent.) • Tubo Guia PWC44026. (Guide Tube PWC44026) • Puller PWC30128-6. (Puller PWC30128-6) • Wrench PWC67699 (Wrench PWC67699) • Fan Wedges PWC66581. (Fan Wedges PWC66581) 			

NOTA:
<p>Somente pessoas habilitadas poderão utilizar este equipamento. O equipamento boroscópico poderá se danificar caso seja submetido a altas temperaturas ou a quedas. Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.</p> <p><i>(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to severe shocks. The fiberscope can be damaged if it is used after engine shutdown)</i></p>



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
3 de (of) 17

TM 040

No. FT
MT-03-06







O.S. nº:
(Work Order nº)

83428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------

01	<p>Recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 71-00-00 antes de se efetuar a inspeção boroscópica. (It is recommended that a compressor wash be performed in accordance with MM PW545B, P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.)</p> <table border="1" data-bbox="284 801 1098 1025"> <thead> <tr> <th data-bbox="284 801 1098 873">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</th> </tr> </thead> <tbody> <tr> <td data-bbox="284 873 1098 952"> </td> </tr> <tr> <td data-bbox="284 952 1098 1025"> </td> </tr> </tbody> </table>	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)				 057
DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)						
02	<p>Remover o starter do motor conforme instruções do AMM da aeronave, capítulo 80. (Remove the starter motor in accordance with Aircraft Maintenance Manual, chapter 80)</p>		 057			
03	<p>Instalar a ferramenta PWC67699 no eixo da gearbox conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00 (Install the PWC67699 on the starter motor gearshaft in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p>		 057			
04	<p>Remover o cover para inserir o equipamento boroscópico utilizando a ferramenta PWC30128-6 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00 (Remove the cover using the puller PWC30128-6 to install the borescope probe in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p>		 057			
05	<p>Inspeccionar as palhetas do 1º estágio do compressor de alta pressão, conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade first-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p> 		 057			



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
4 de (of) 17

TM 040

No. FT
MT-03-06


O.S. nº:
(Work Order nº)

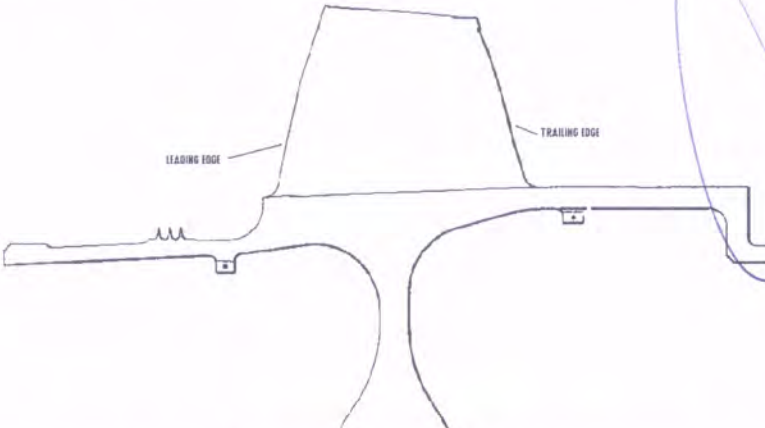

83428


Item nº:
(Item nº)


01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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05 (cont)	<p>DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>Nenhum dano foi encontrado</p>		
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06	<p>Inspecionar as palhetas do 2º estágio do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade second-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>  <p>DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>Nenhum dano foi encontrado</p>		
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07	<p>Remover o Bleed Valve conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Remove the Compressor Bleed Valve in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p>		
----	---	--	---

08	<p>Inspecionar o Impeller do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect HP Compressor Impeller in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>		
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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
5 de (of) 17

TM 040

No. FT
MT-03-06

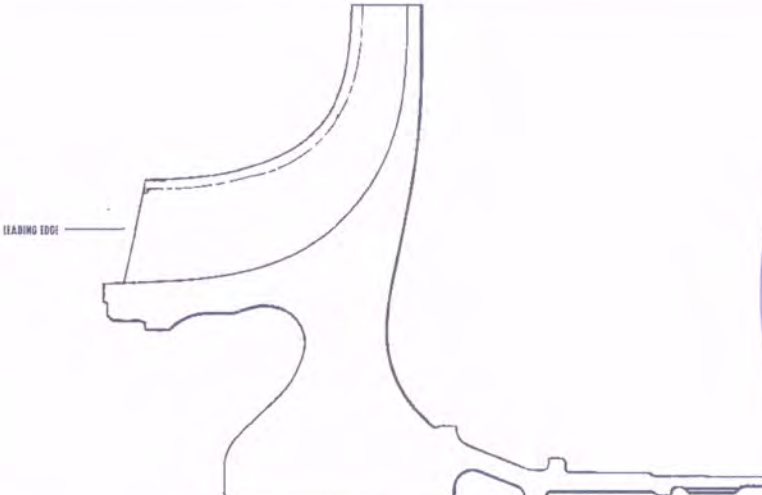
O.S. n°:
(Work Order n°)

83428


Item n°:
(Item n°)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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08 (cont)	 <p align="center">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>Nenhum dano foi encontrado</p>		
09	<p>Instalar novo o'ring no cover removido do item 04 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Install a new performed packing on the cover removed on the item 04 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p>		
10	<p>Instalar o cover e torquear conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Install the cover and torque the nut in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p> <p>Torque= 36 lb.in</p>		
11	<p>Instalar o plain cover com a marcação do PN para cima e torquear conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Install the plain cover with the PN facing out and torque the bolts in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p> <p>Torque= 36 lb.in</p>		
12	<p>Instalar a bleed valve removida no item 07 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 75-30-01. (Install the bleed valve removed on item 07 in accordance with PW545B M.M P/N: 30J2242, chapter 75-30-01)</p>		





	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 6 de (of) 17
	TM 040	No. FT MT-03-06


O.S. nº: *83428* (Work Order nº) Item nº: *01* (Item nº)

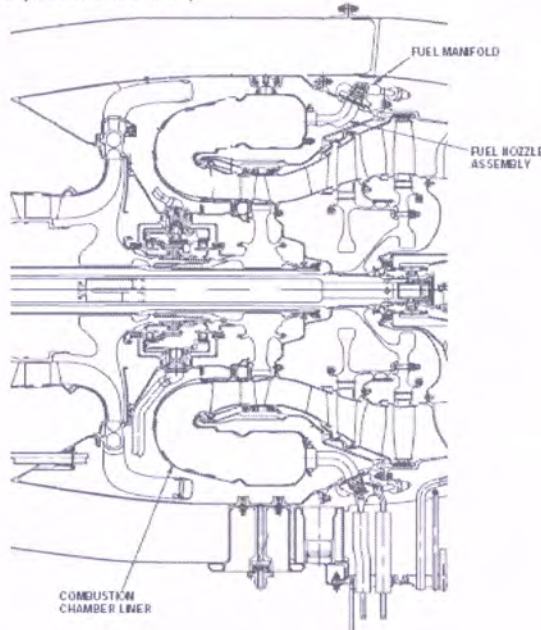
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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13	Remover o plug da caixa de ignição conforme conforme instruções do AMM da aeronave, capítulo 74. <i>(Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)</i>		
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14	Remover o cabo de ignição conforme conforme instruções do AMM da aeronave, capítulo 74. <i>(Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)</i>		
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15	Remover a vela de ignição conforme conforme instruções do AMM da aeronave, capítulo 74. <i>(Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74)</i>		
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16	Inspecionar os bicos de combustível utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. <i>(Inspect the fuel nozzles using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</i>		
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DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)
<i>Nenhum dano foi encontrado</i>



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
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83428

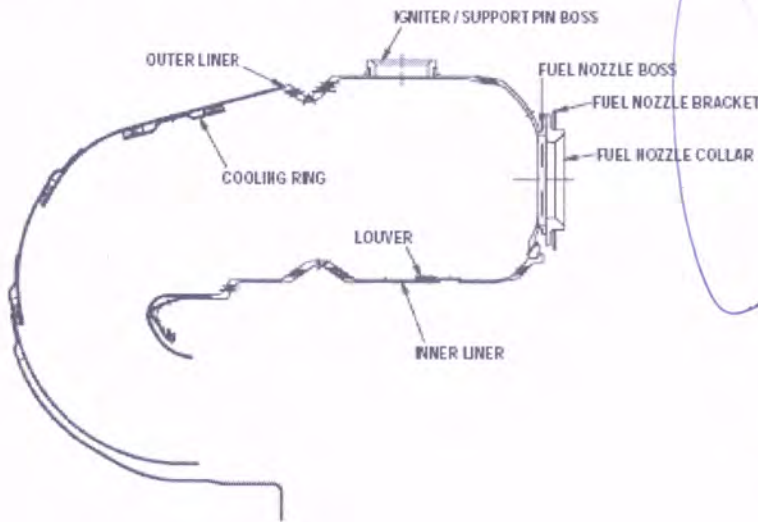
Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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17

Inspeccionar os *Liners* da Câmara de Combustão utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect Combustion Chamber Liner using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano foi encontrada

18

Inspeccionar a *Vane* da turbina de alta pressão do 1º estágio utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the First Stage HP Turbine Vane using the tool PN: PWC44026 in accordance with PW545B M.M, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
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No. FT
MT-03-06

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(Work Order nº)

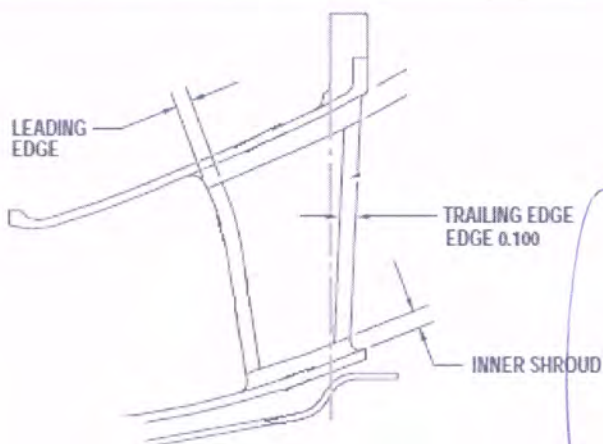
83428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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18
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

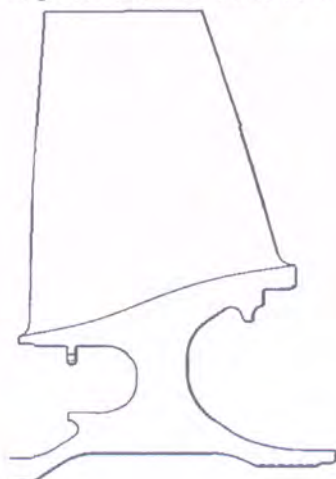
Nenhum dano foi encontrado



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19

Inspeccionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)



83428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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19 (cont)	<p align="center">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>nenhum dano foi encontrado</p>		
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20	<p>Inspecionar o <i>Liner</i> do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>  <p align="center">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>nenhum dano foi encontrado</p>		
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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
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MT-03-06

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(Work Order nº)

83428

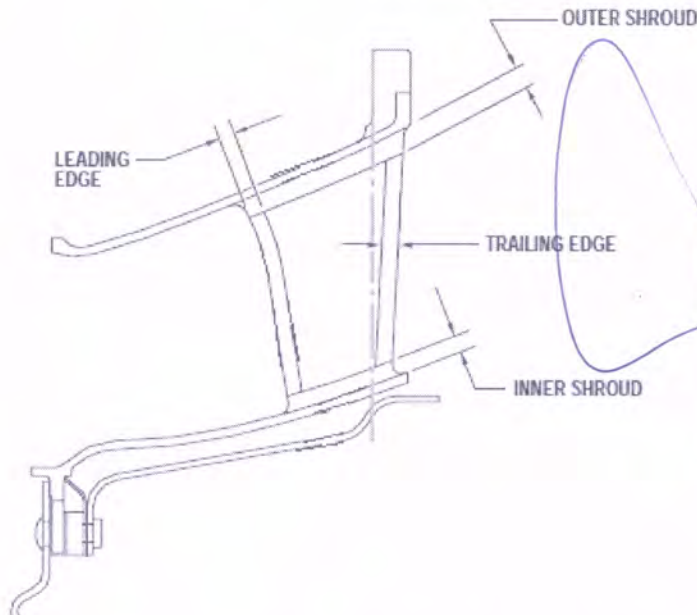
Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Inspeccionar a Vane Ring do 2º estágio da turbina conforme o Manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Vane Ring in accordance with PW 545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



21

DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

nenhum dano foi encontrado



Inspeccionar a palheta do 2º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Blades in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

22





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order n°)

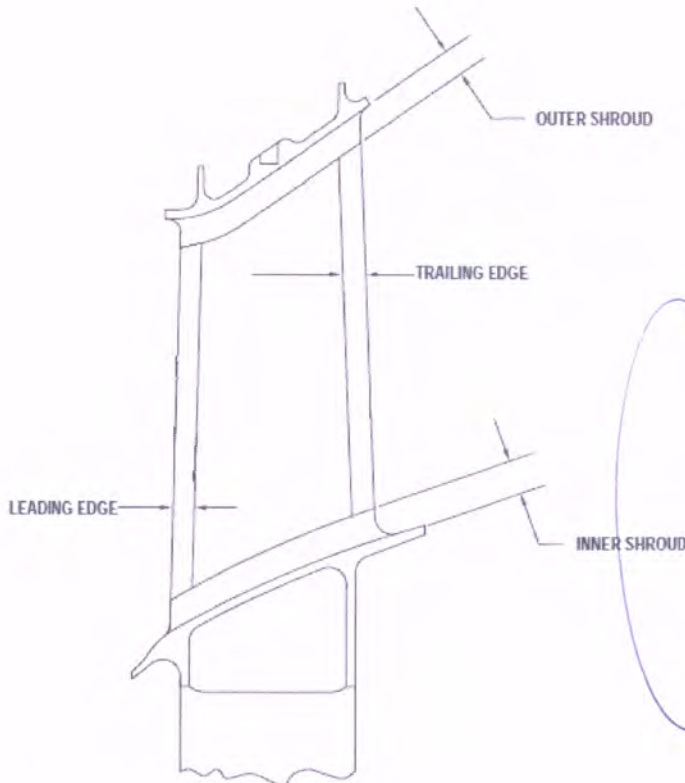
83428

Item n°:
(Item n°)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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22
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado

23

Inspeccionar a Vane Ring do 3º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Third Stage LP Turbine Vane Ring in accordance with PW 545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

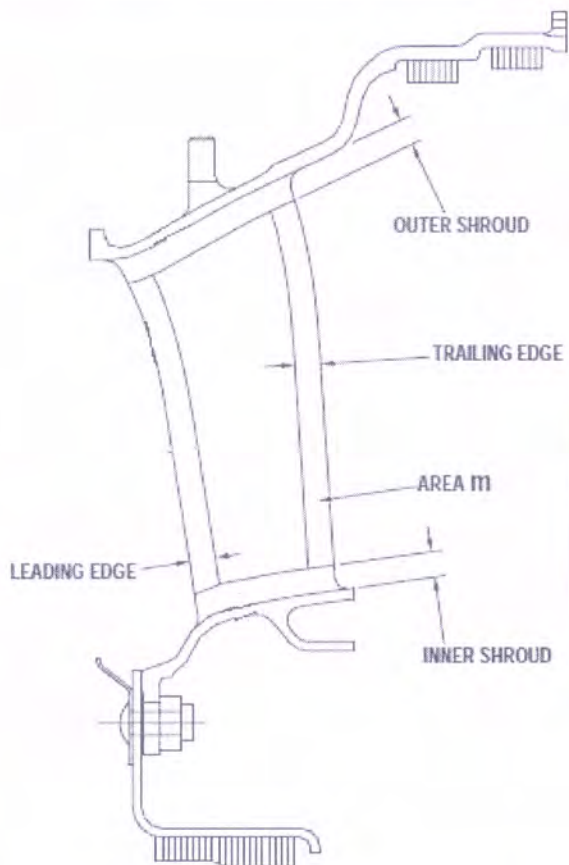
83428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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23
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado



24

Inspecionar a palheta do 3º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the Third Stage LP Turbine Blades in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

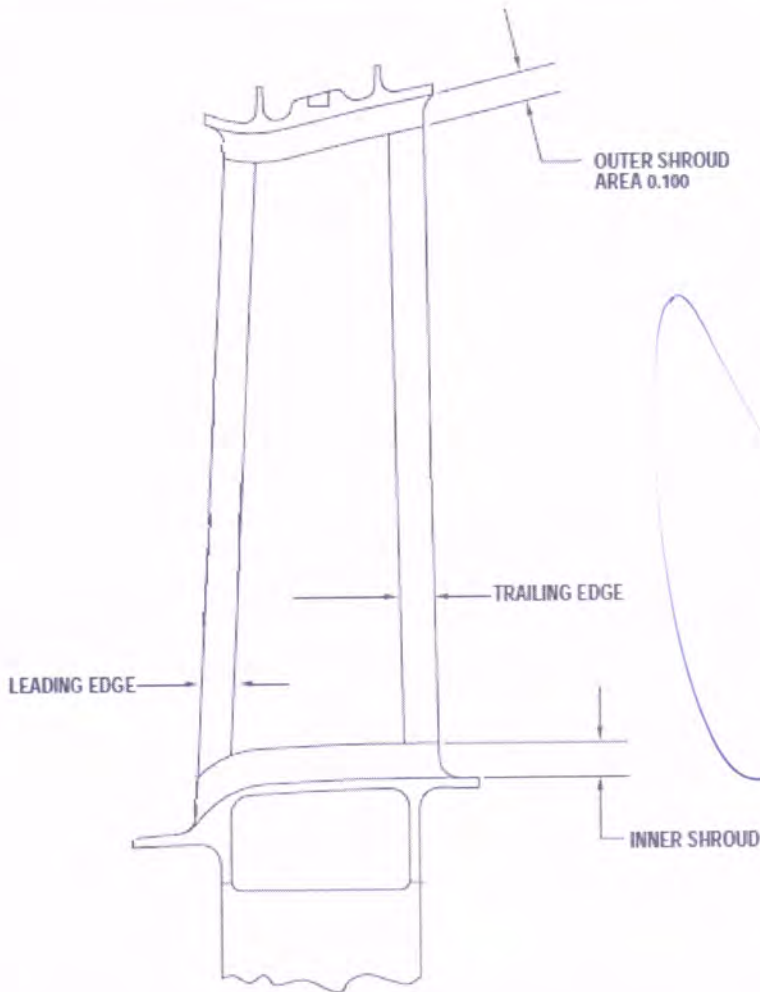
83428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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24
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

nenhum dano foi encontrado



25

Inspeccionar a *Ring Vane* do 4º estágio da turbina conforme o PW 545B Manual de Manutenção P/N: 30J2242, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Ring Vane from Fourth Stage LP Turbine Vane in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
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(Work Order nº)

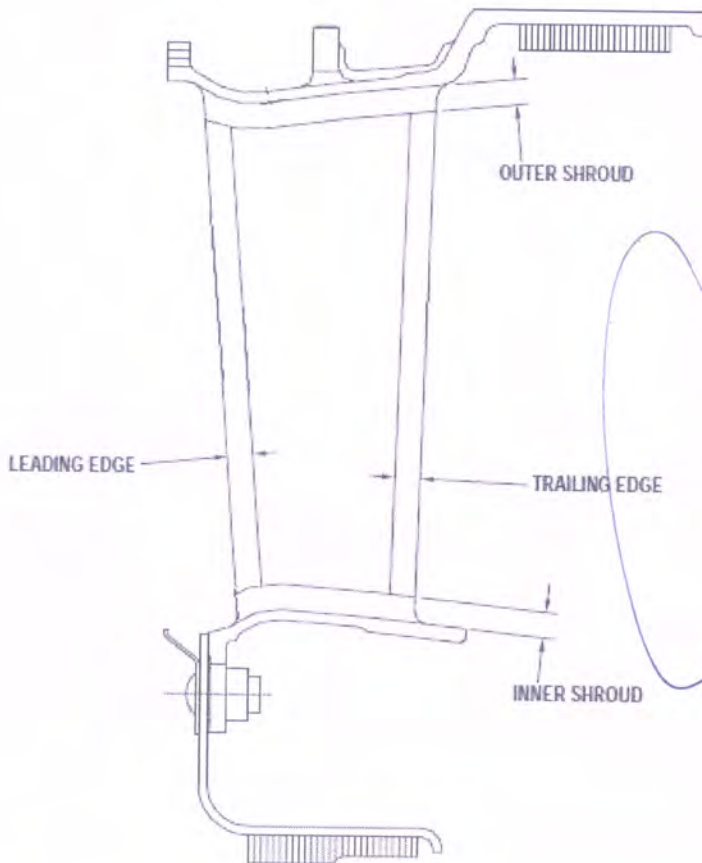
83428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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25
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado

26

Inspeccionar a palheta do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Fourth Stage LP Turbine Blades in accordance with PW 545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

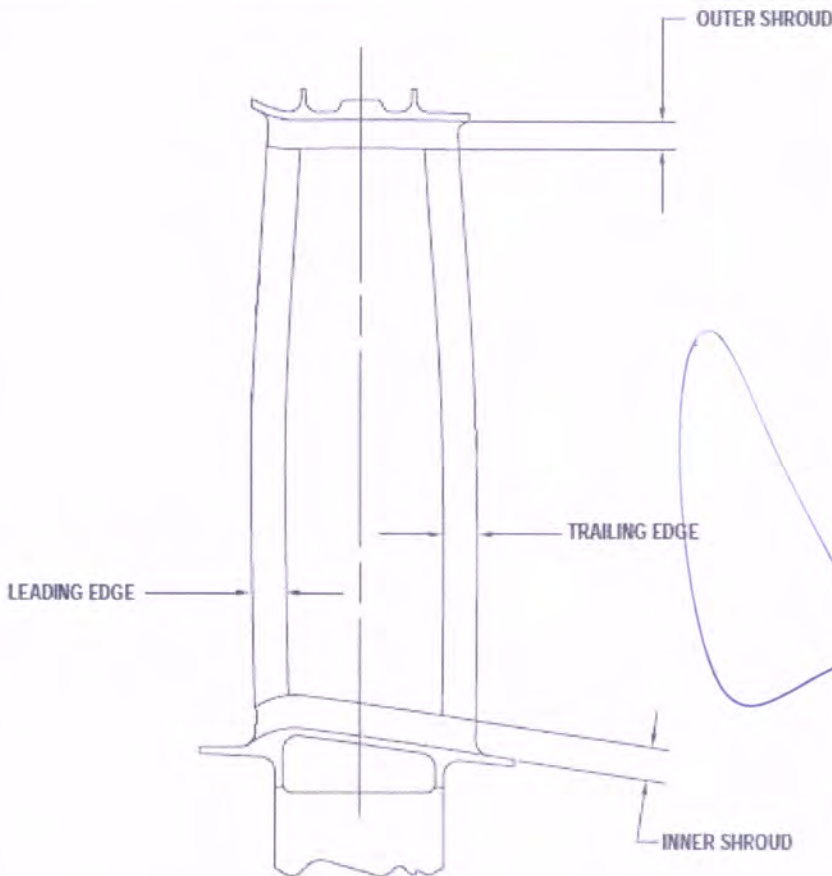
830128

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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26
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado

27

Inspeccionar o mecanismo de corte de combustível conforme o manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados.
(Inspect the Fuel Shut-off Mechanism in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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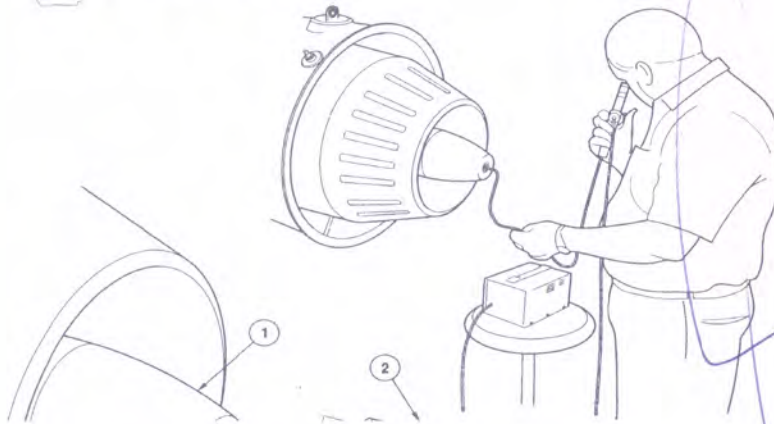
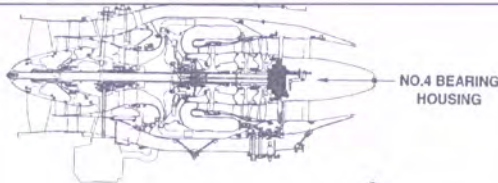
83928

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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27
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado



Inspeccionar o Intermediate Case utilizando a ferramenta PN: PWC66581 conforme o manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados.

(Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B M.M, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)

28

DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Encontrado corrosão superficial leve internamente próximo ao HPC rotel conforme o M.M PW545B nenhuma ação se faz necessária e o mesmo poderá continuar em serviço





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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O.S. nº:
(Work Order nº)

83 428

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
29	Remover as ferramentas PWC67699,PWC30128-6,PWC44026,PWC66581 instaladas anteriormente. (Remove the Tooling PWC67699,PWC30128-6,PWC44026,PWC66581 installed before)		
30	Instalar o starter removido do item 02 conforme instruções do AMM da aeronave,capitulo 80. (Install the starter motor in accordance with Aircraft Maintenance Manual, chapter 80) Torque= 40 lb.in		
31	Instalar a vela de ignição conforme instruções do AMM da aeronave,capitulo 74. (Install the igniter plug in accordance with Aircraft Maintenance Manual, chapter 74) Torque= 300 lb.in		
32	Instalar o plug da caixa de ignição conforme instruções do AMM da aeronave,capitulo 74. (Install the plug on the exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		
33	Instalar o cabo de ignição conforme instruções do AMM da aeronave,capitulo 74. (Install the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		

O componente/aeronave descrito acima foi considerado:
(The part/aircraft described above is:)



Aprovado (Approved)



Reprovado (Not approved)

Observação (Remarks):

Assinatura e Carimbo do Inspetor
(Inspector Signature and Stamp)

08/04/2016
Data
(Date)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 2 de (of) 17
	TM 040	No. FT MT-03-06

INFORMAÇÕES DO COMPONENTE
(COMPONENT INFORMATION)

Descrição Componente: (Part Description)	Part Number: (Part Number)	Número de Série: (Serial Number)
<i>Engine</i>	<i>PW545B</i>	<i>ID0164</i>
Razão da Inspeção: (Reason of Inspection)	Removido da Posição: (Removed from position)	
<i>Rep Compla</i>	<i>RH</i>	

INFORMAÇÕES DA AERONAVE
(AIRCRAFT INFORMATION)

Prefixo da Aeronave: (Acf. Reg.)	S/N Aeronave: (Aircraft S/N)
<i>PP-RST</i>	<i>S60XL-5579</i>

ORDEM DE SERVIÇO
(WORK ORDER)

O.S. nº: (Work Order nº)	Item nº: (Item nº)
<i>83428</i>	<i>1</i>

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Equipamentos necessários








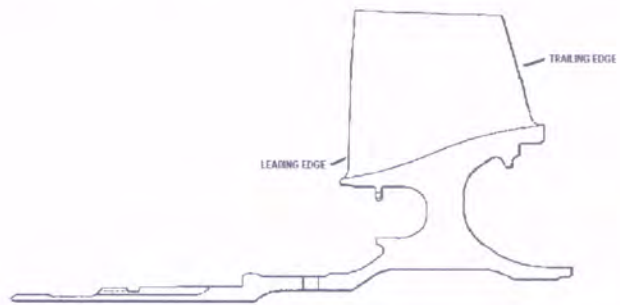

- Equipamento boroscópico PWC37711 ou equivalente.
(Boroscope equipment PWC37711 or equivalent.)
- Tubo Guia PWC44026.
(Guide Tube PWC44026)
- Puller PWC30128-6.
(Puller PWC30128-6)
- Wrench PWC67699
(Wrench PWC67699)
- Fan Wedges PWC66581.
(Fan Wedges PWC66581)


NOTA:

Somente pessoas habilitadas poderão utilizar este equipamento.
 O equipamento boroscópico poderá se danificar caso seja submetido a altas temperaturas ou a quedas. Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.

(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to severe shocks. The fiberscope can be damaged if it is used after engine shutdown)


	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)		Folha (Sheet) 3 de (of) 17
	TM 040		No. FT MT-03-06
O.S. nº: (Work Order nº)	83928	Item nº: (Item nº)	01
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

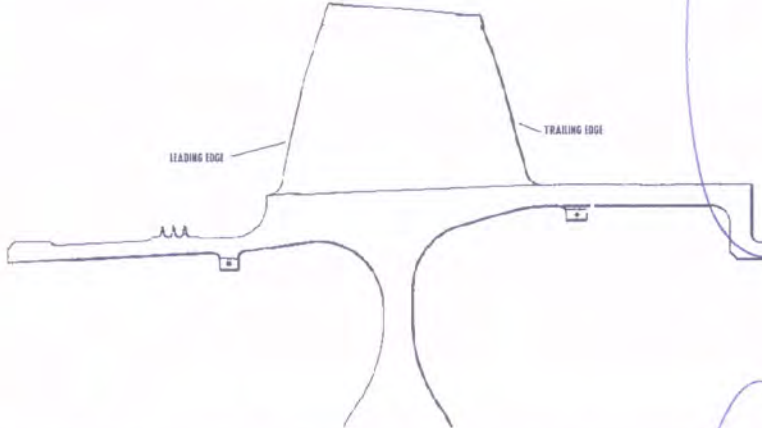

01	<p>Recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 71-00-00 antes de se efetuar a inspeção boroscópica. <i>(It is recommended that a compressor wash be performed in accordance with MM PW545B, P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.)</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS</th> </tr> <tr> <td style="text-align: center;"> <i>(Damages description)</i> </td> </tr> <tr> <td style="height: 40px;">  </td> </tr> </table>	DESCRIÇÃO DOS DANOS OBSERVADOS	<i>(Damages description)</i>			
DESCRIÇÃO DOS DANOS OBSERVADOS						
<i>(Damages description)</i>						
						
02	<p>Remover o starter do motor conforme instruções do AMM da aeronave, capítulo 80. <i>(Remove the starter motor in accordance with Aircraft Maintenance Manual, chapter 80)</i></p>					
03	<p>Instalar a ferramenta PWC67699 no eixo da gearbox conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00 <i>(Install the PWC67699 on the starter motor gearshaft in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</i></p>					
04	<p>Remover o cover para inserir o equipamento boroscópico utilizando a ferramenta PWC30128-6 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00 <i>(Remove the cover using the puller PWC30128-6 to install the borescope probe in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</i></p>					
05	<p>Inspecionar as palhetas do 1º estágio do compressor de alta pressão, conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. <i>(Inspect HP compressor blade first-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</i></p> <div style="text-align: center;">  </div>					


	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 4 de (of) 17
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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05 (cont)	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</th> </tr> <tr> <td style="text-align: center; height: 40px;"> <i>Nenhum dano foi encontrado</i> </td> </tr> </table>	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)	<i>Nenhum dano foi encontrado</i>		
DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)					
<i>Nenhum dano foi encontrado</i>					

06	<p>Inspeccionar as palhetas do 2º estágio do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade second-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p> <div style="text-align: center;">  </div> <table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</th> </tr> <tr> <td style="text-align: center; height: 40px;"> <i>Nenhum dano foi encontrado</i> </td> </tr> </table>	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)	<i>Nenhum dano foi encontrado</i>		
DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)					
<i>Nenhum dano foi encontrado</i>					

07	<p>Remover o Bleed Valve conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Remove the Compressor Bleed Valve in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)</p>		
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08	<p>Inspeccionar o Impeller do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect HP Compressor Impeller in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>		
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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
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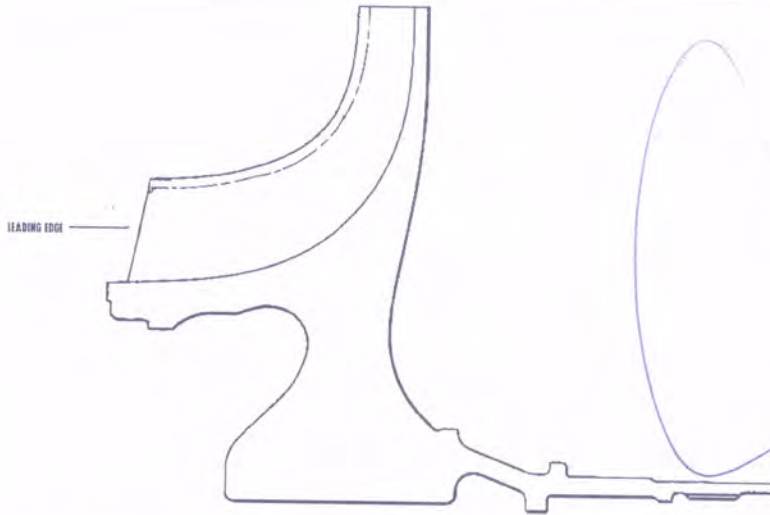
83428

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(Item nº)

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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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08
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado



09

Instalar novo o'ring no cover removido do item 04 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00.
(Install a new performed packing on the cover removed on the item 04 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)



10

Instalar o cover e torquear conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00.
(Install the cover and torque the nut in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)
Torque= 36 lb.in



11

Instalar o plain cover com a marcação do PN para cima e torquear conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00.
(Install the plain cover with the PN facing out and torque the bolts in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00)
Torque= 36 lb.in



12

Instalar a bleed valve removida no item 07 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 75-30-01.
(Install the bleed valve removed on item 07 in accordance with PW545B M.M P/N: 30J2242, chapter 75-30-01)





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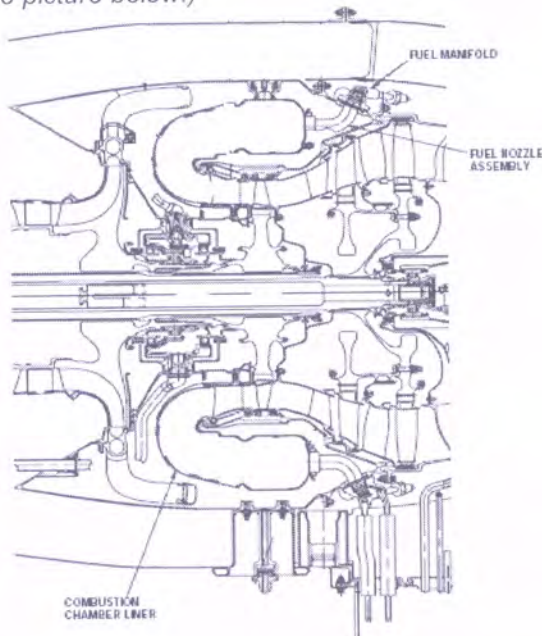
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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13	Remover o plug da caixa de ignição conforme conforme instruções do AMM da aeronave, capítulo 74. (Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		
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14	Remover o cabo de ignição conforme conforme instruções do AMM da aeronave, capítulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		
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15	Remover a vela de ignição conforme conforme instruções do AMM da aeronave, capítulo 74. (Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74)		
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16	Inspeccionar os bicos de combustível utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the fuel nozzles using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)		
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DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

nenhum dano foi encontrado



FICHA DE TRABALHO
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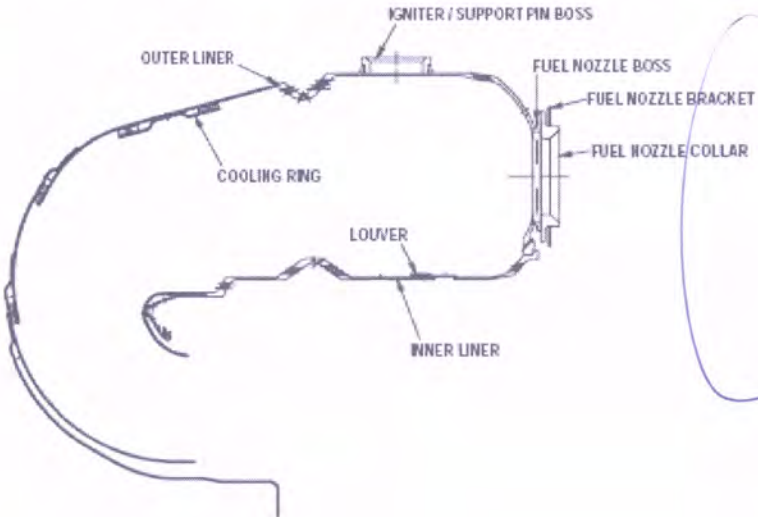


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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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17	<p>Inspeccionar os <i>Liners</i> da Câmara de Combustão utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect Combustion Chamber Liner using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>  <table border="1" data-bbox="284 1393 1093 1697"> <thead> <tr> <th data-bbox="284 1393 1093 1467">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</th> </tr> </thead> <tbody> <tr> <td data-bbox="284 1467 1093 1617">Nenhum dano foi encontrado</td> </tr> <tr> <td data-bbox="284 1617 1093 1697"> </td> </tr> </tbody> </table>	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)	Nenhum dano foi encontrado			
DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)						
Nenhum dano foi encontrado						

18	<p>Inspeccionar a <i>Vane</i> da turbina de alta pressão do 1º estágio utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Vane using the tool PN: PWC44026 in accordance with PW545B M.M, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>		
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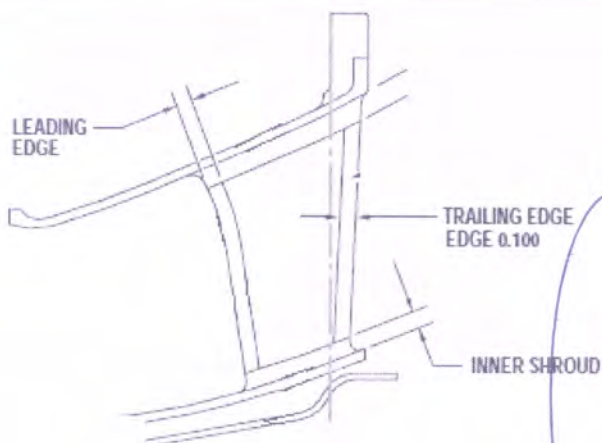
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(Item nº)

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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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18
(cont)



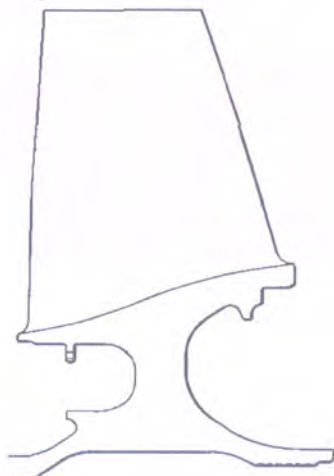
DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado



19

Inspeccionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





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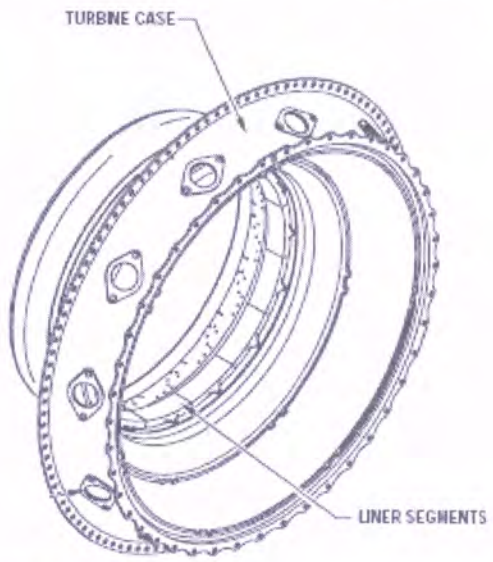


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Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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19 (cont)	<p align="center">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>Nenhum dano foi encontrado</p>		
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20	<p>Inspeccionar o <i>Liner</i> do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>  <p align="center">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p>Nenhum dano foi encontrado</p>		
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FICHA DE TRABALHO
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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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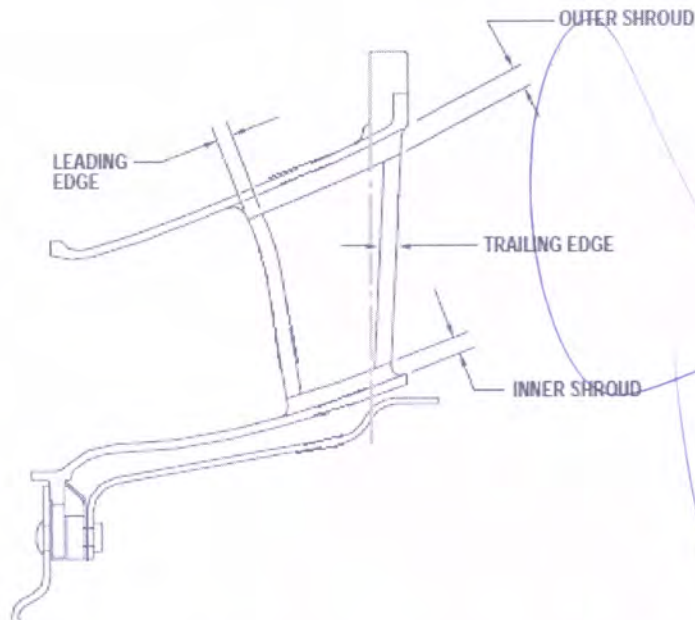
83428

Item n°:
(Item n°)

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Inspecionar a *Vane Ring* do 2º estágio da turbina conforme o Manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Vane Ring in accordance with PW 545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



21

DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano foi encontrado

Inspecionar a palheta do 2º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Blades in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



22



FICHA DE TRABALHO
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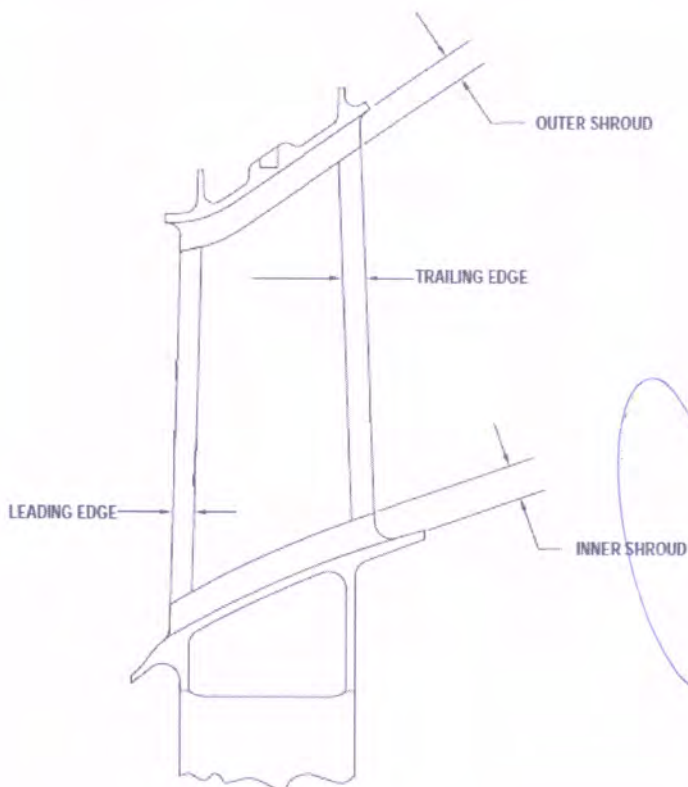
83428

Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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22
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

nenhum dano foi encontra
do



23

Inspeccionar a Vane Ring do 3º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
 (Inspect the Third Stage LP Turbine Vane Ring in accordance with PW 545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
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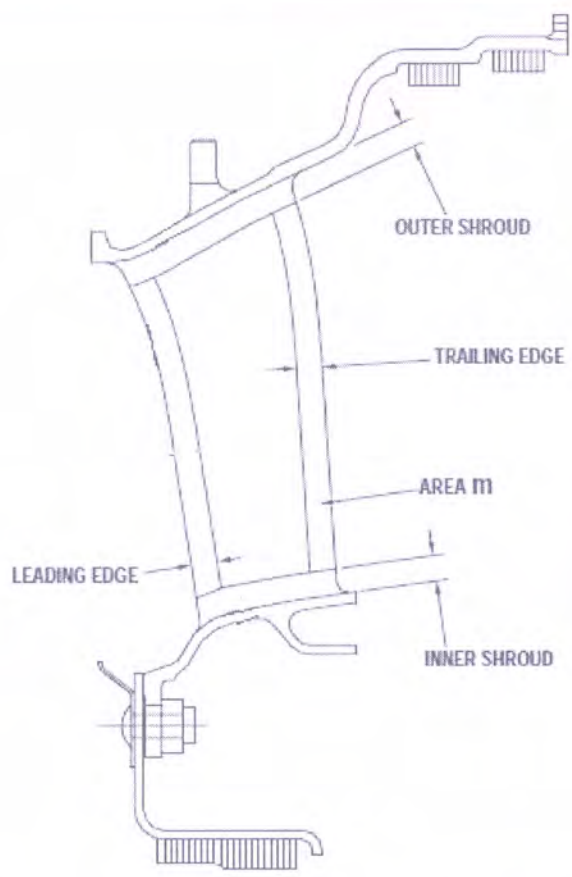
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(Work Order nº) **83428**

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(Item nº) **1**

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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23
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)
Nenhum dano foi encontrado



24

Inspecionar a palheta do 3º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the Third Stage LP Turbine Blades in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
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PW 545B
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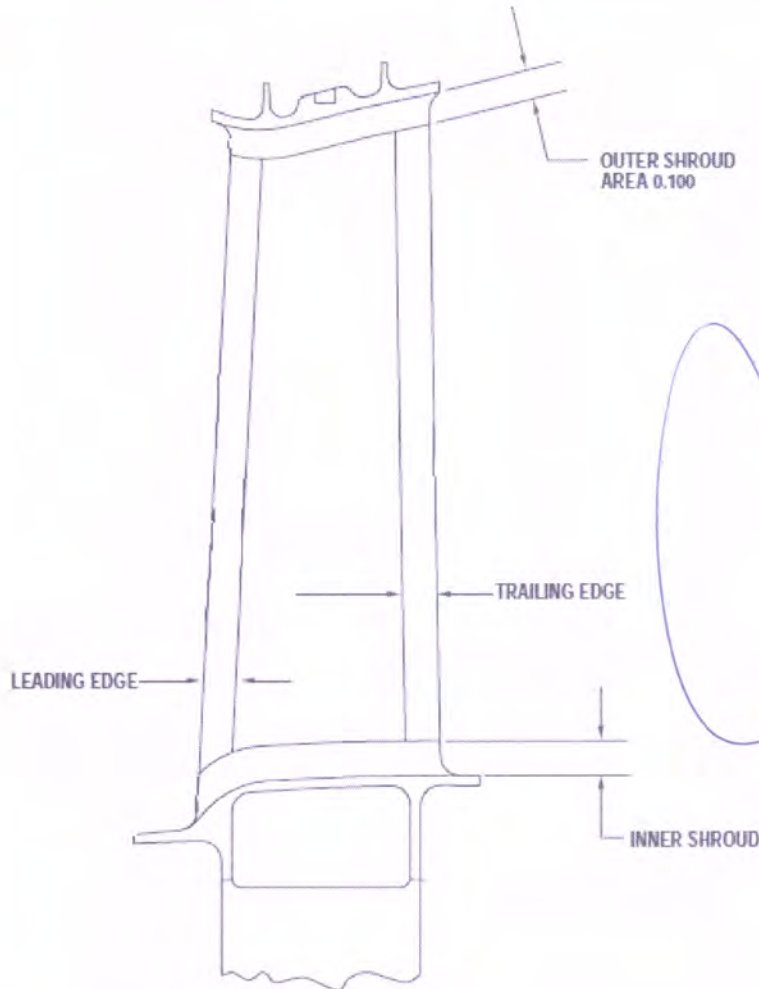
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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24
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano foi encontrado

25

Inspeccionar a Ring Vane do 4º estágio da turbina conforme o PW 545B Manual de Manutenção P/N: 30J2242, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the Ring Vane from Fourth Stage LP Turbine Vane in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





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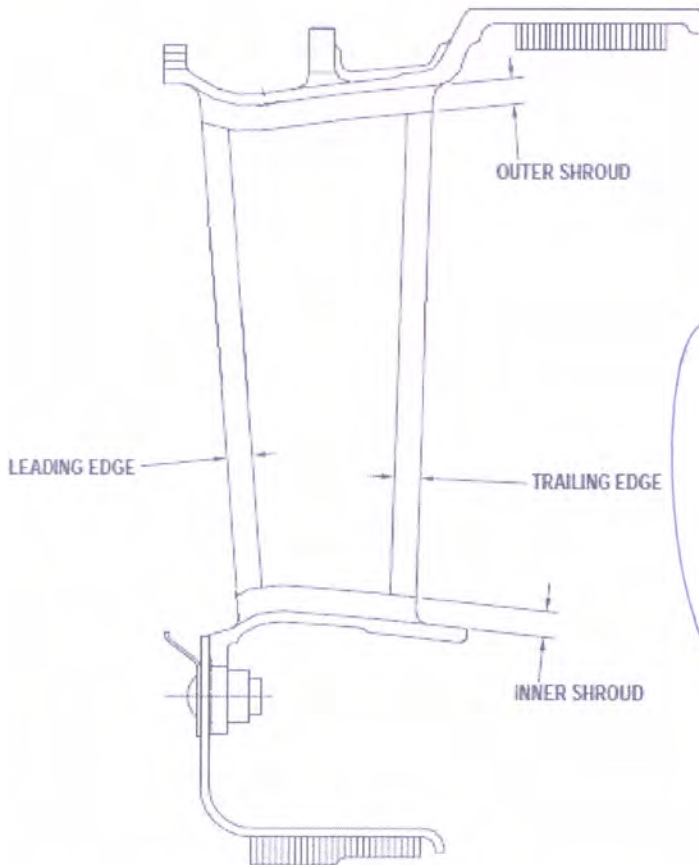
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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25
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano foi encontrado

26

Inspeccionar a palheta do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Fourth Stage LP Turbine Blades in accordance with PW 545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





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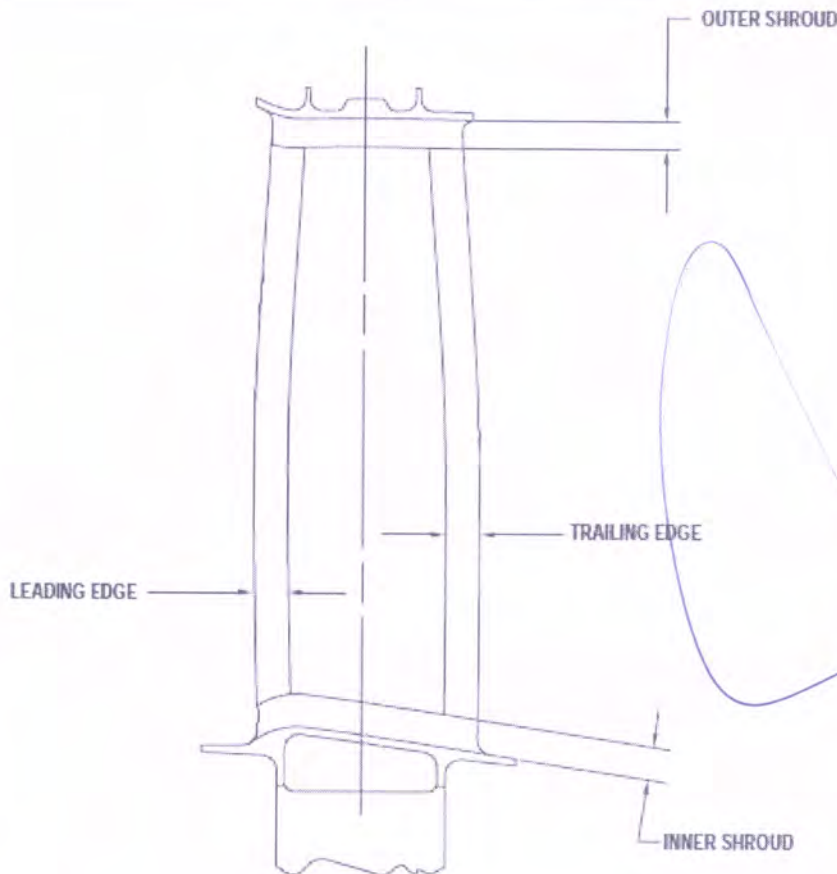
83428

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(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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26
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano foi encontrado

27

Inspeccionar o mecanismo de corte de combustível conforme o manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados.

(Inspect the Fuel Shut-off Mechanism in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)





FICHA DE TRABALHO
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PW 545B
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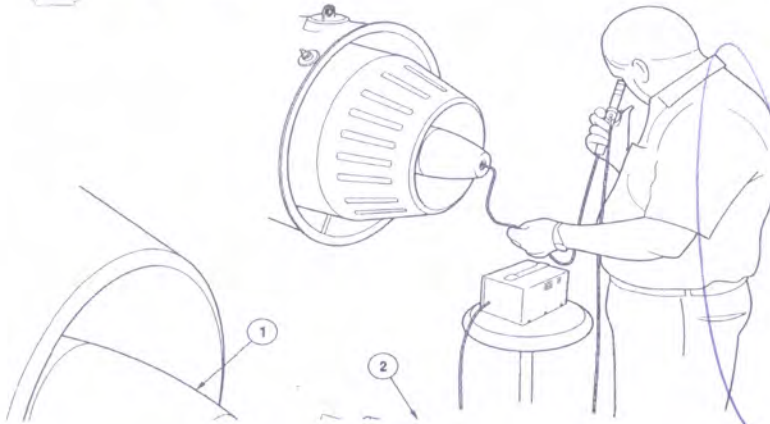
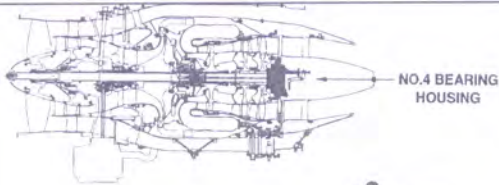
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(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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27
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano foi encontrado



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28

Inspeccionar o Intermediate Case utilizando a ferramenta PN: PWC66581 conforme o manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados.

(Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B M.M, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)


DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Encontrado corrosão superficial internamente próximo ao HP rotor, conforme M.M PW545B
Nenhuma ação se faz necessária








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	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 17 de (of) 17
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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29	Remover as ferramentas PWC67699,PWC30128-6,PWC44026,PWC66581 instaladas anteriormente. (Remove the Tooling PWC67699,PWC30128-6,PWC44026,PWC66581 installed before)		
30	Instalar o starter removido do item 02 conforme instruções do AMM da aeronave,capitulo 80. (Install the starter motor in accordance with Aircraft Maintenance Manual chapter 80) Torque= 90 lb.in		
31	Instalar a vela de ignição conforme instruções do AMM da aeronave,capitulo 74. (Install the igniter plug in accordance with Aircraft Maintenance Manual, chapter 74) Torque= 300 lb.in		
32	Instalar o plug da caixa de ignição conforme instruções do AMM da aeronave,capitulo 74. (Install the plug on the exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		
33	Instalar o cabo de ignição conforme instruções do AMM da aeronave,capitulo 74. (Install the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		

O componente/aeronave descrito acima foi considerado:
 (The part/aircraft described above is:)



Aprovado (Approved)



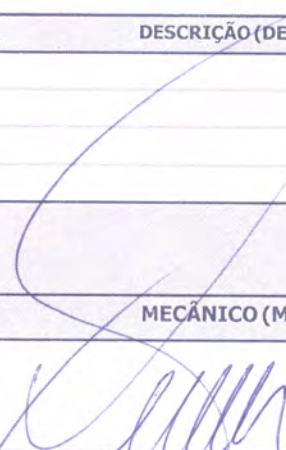

Reprovado (Not approved)

Observação (Remarks):




Assinatura e Carimbo do Inspetor
 (Inspector Signature and Stamp)

08/jul/2016
 Data
 (Date)

FICHA DE SERVIÇO(WORK SHEET)					
ITEM(ITEM)	OS(W.O.)	PREFIXO(ACFT. REG)	SN	INÍCIO(DATE IN)	TÉRMINO (DATE OUT)
2	83428	PP-RST	560-5579	08/07/2016	08/7/2016
SERVIÇO (SERVICE REQUESTED)					
EFETUAR TESTE DE PERFORMANCE NOS MOTORES (FIVE PONTS)					
SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED)					
EFETUADO TESTE DE PERFORMANCE CONFORME INFORMAÇÕES DESCRITAS NO M.M PWC 545B CAP 71-00-00 REV 21.1 PN 30J2242.CONFORME RESULTADOS EM ANEXO OS MOTORES PODERAM CONTINUAR EM OPERAÇÃO.					
MATERIAIS (MATERIALS)					
DESCRIÇÃO (DESCRIPTION)		PN REMOVIDO (REMOVED)	QTD	SN REMOVIDO (REMOVED)	
DESCRIÇÃO (DESCRIPTION)		PN INST. (INSTALLED)	QTD	SN INSTALADO (INSTALLED)	
ASSINATURA E/OU CARIMBO, CONFORME APLICÁVEL (SIGNATURE AND/OR STAMP, AS APPLICABLE)					
MECÂNICO (MECHANIC)			INSPECTOR (INSPECTOR)		
					



Pratt & Whitney Canada

Une societe de United Technologies/A United Technologies Company

Pratt & Whitney Canada Corp.

1000, Marie-Victorine

Longueuil, Quebec, Canada, J4G 1A1

Turbofan Engine Calibration Run Data Sheet (Initial Installation)

P&WC 9894 (01/99)

Date	08/jul/16	A/C Reg. No.	PP-RST	Engine S/N.	DD0160	Engine Position	LH # 1
Engine TTSN.		Wind Dir./Velo.		Press. Alt.	2280	Engine Model	PW545B
OAT (Deg. C)	20	Theta	1,0174	Root Theta	1,0086	D	-4,6589

Max N1 for Ambient conditions per A/C Flight Manuals (N1 %):

90,5

Engine Parameter (A/C Indicator)	Observed	Sync. off / Bleed off/Anti-ice off					Ground Idle
		Normal Take-off	Take-off - 2%	Take-off - 4%	Take off - 6%	Take-off - 10%	
N1 (%)	91,5	89,5	87,5	85,5	81,5	23,7	
N2(%)	98,7	98	97,2	95,8	94,7	50,9	
ITT (Deg. C)	700	675	660	645	625	500	
Fuel Flow (pph)	1730	1680	1560	1440	1340	240	
Oil Press (psia)	78	75	70	70	78	45	
Oil Temp. (deg. F)	90	100	100	105	100	60	

Corrected Engine Parameters Calculation

N1 (%)	90,7	88,7	86,8	84,8	80,8	23,5
N2(%)	97,9	97,2	96,4	95,0	93,9	50,5
T45 or T5 (Deg. C)	683	659	644	629	610	487

Run Down Time

N1 : (seconds)	68	N2: (seconds)	72
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Pratt & Whitney Canada Corp.

1000, Marie-Victorine

Longueuil, Quebec, Canada, J4G 1A1

Turbofan Engine Calibration Run Data Sheet

P&WC 9936 (1999-10)

Date	28/out/15	A/C Reg. No.	PP-RST	Engine S/N.	DD0160	Engine Position	LH # 1
Engine TTSN.		Wind Dir./Velo.		Press. Alt.	2350	Engine Model	PW545B
OAT (Deg. C)	24	Theta	1,0312	Root Theta	1,0155	D	-8,2731

Max N1 for Ambient conditions per A/C Flight Manuals (N1 %):

90,5

Observed Engine Parameter (A/C Indicator)	Sync. off / Bleed off/Anti-ice off					Ground Idle
	Normal Take-off	Take-off - 2%	Take-off - 4%	Take off - 6%	Take-off - 10%	
N1 (%)	90,5	88,5	86,5	84,5	80,5	24
N2(%)	98,9	97,9	96,9	96	94,7	51,3
ITT (Deg. C)	690	675	655	645	615	500
Fuel Flow (pph)	1650	1590	1490	1430	1280	240
Oil Press (psia)	75	72	72	72	73	35
Oil Temp. (deg. F)	102	104	103	103	101	77

Corrected Engine Parameters Calculation

N1 (%)	89,1	87,1	85,2	83,2	79,3	23,6
N2(%)	97,4	96,4	95,4	94,5	93,3	50,5
T45 or T5 (Deg. C)	661	646	627	617	588	477

Run Down Time

N1 : (seconds)	69					
N2: (seconds)				79		



Pratt & Whitney Canada

Une société de United Technologies/A United Technologies Company

Turbofan Engine Installation Calibration and Performance Check Curves,

Corrected N1 vs. N2 and N1 vs. T4.5

P&WC 9935 (1999-10)

1000, Marie-Victorin

Longueuil, Quebec

Canada, J4G 1A1

Date: 28/Out/15

A/C Reg. No.: PP-RST

Engine S/N: DD0160

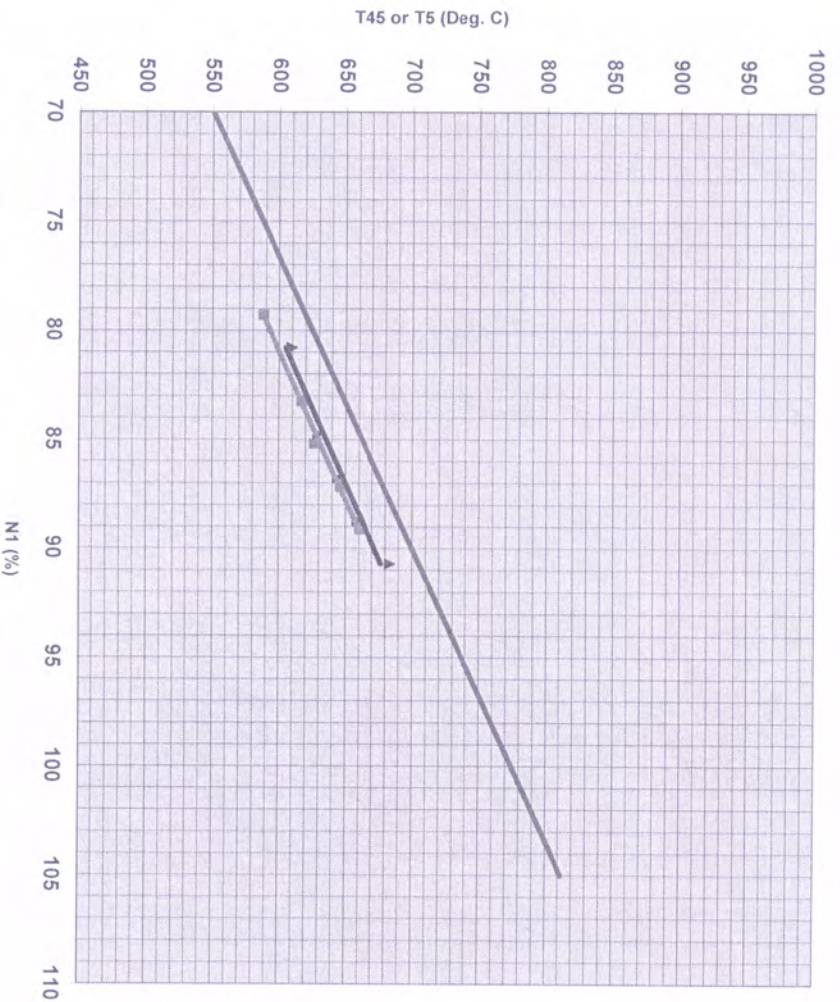
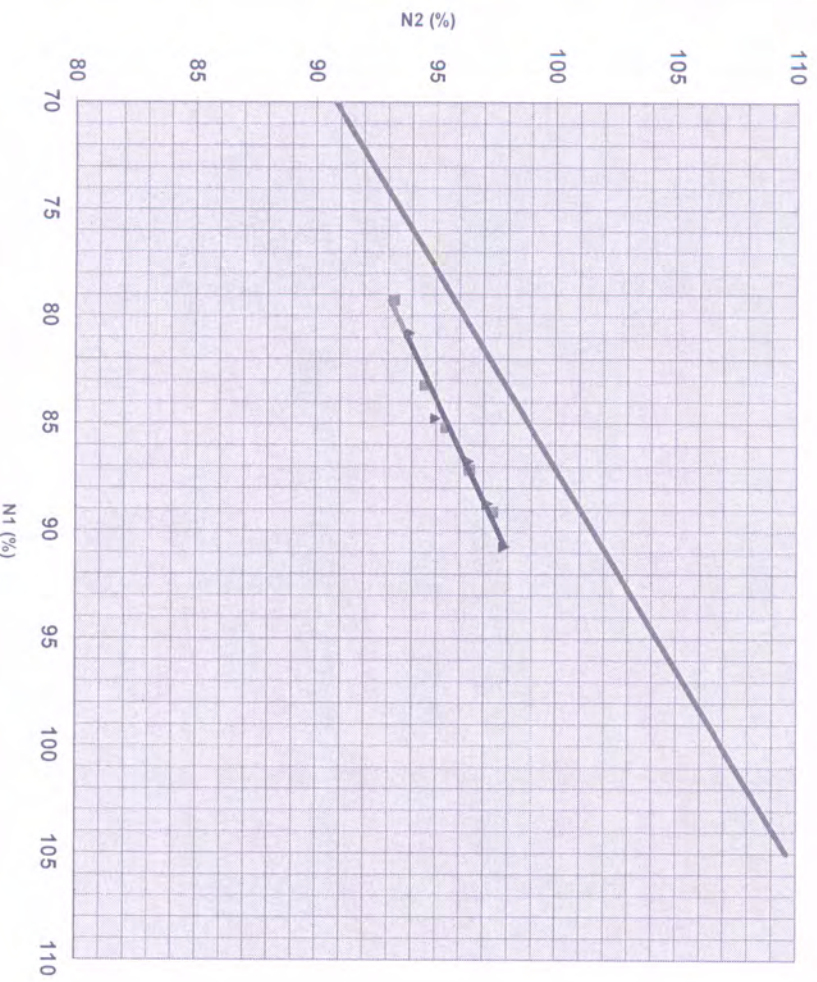
Engine Position:

LH # 1

Engine Total Time since New: 0

Engine Total time Since Ovhl:

Engine Model PW545B





Pratt & Whitney Canada

Une societe de United Technologies/A United Technologies Company

Pratt & Whitney Canada Corp.

1000, Marie-Victorine

Longueuil, Quebec, Canada, J4G 1A1

Turbofan Engine Calibration Run Data Sheet (Initial Installation)

P&WC 9894 (01/99)

Date	08/jul/16	A/C Reg. No.	PP-RST	Engine S/N.	DD0164	Engine Position	RH # 2
Engine TTSN.		Wind Dir./Velo.		Press. Alt.	2280	Engine Model	PW545B
OAT (Deg. C)	20	Theta	1,0174	Root Theta	1,0086	D	-4,6589

Max N1 for Ambient conditions per A/C Flight Manuals (N1 %):

91,5

Engine Parameter (A/C Indicator)	Observed	Sync. off / Bleed off/Anti-ice off				Ground Idle
		Normal Take-off	Take-off - 2%	Take-off - 4%	Take off - 6%	
N1 (%)	91,5	89,5	87,5	85,5	81,5	23,5
N2(%)	99,4	98,6	96,8	96,1	95	51
ITT (Deg. C)	700	680	650	645	620	495
Fuel Flow (pph)	1780	1690	1510	1480	1350	230
Oil Press (psia)	80	78	78	78	78	40
Oil Temp. (deg. F)	95	100	100	100	100	70

Corrected Engine Parameters Calculation

N1 (%)	90,7	88,7	86,8	84,8	80,8	23,3
N2(%)	98,5	97,8	96,0	95,3	94,2	50,6
T45 or T5 (Deg. C)	683	664	634	629	605	482

Run Down Time

N1 : (seconds)	65	N2: (seconds)	73
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Pratt & Whitney Canada Corp.

1000, Marie-Victorine

Longueuil, Quebec, Canada, J4G 1A1

Turbofan Engine Calibration Run Data Sheet

P&WC 9936 (1999-10)

Date	28/out/15	A/C Reg. No.	PP-RST	Engine S/N.	DD0164	Engine Position	RH # 2
Engine TTSN.		Wind Dir./Velo.		Press. Alt.	2350	Engine Model	PW545B
OAT (Deg. C)	24	Theta	1,0312	Root Theta	1,0155	D	-8,2731

Max N1 for Ambient conditions per A/C Flight Manuals (N1 %):

90,5

Observed Engine Parameter (A/C Indicator)	Normal Take-off	Sync. off / Bleed off/Anti-ice off					Ground Idle
		Take-off - 2%	Take-off - 4%	Take off - 6%	Take-off - 10%		
N1 (%)	90,5	88,5	86,5	84,5	80,5	23,7	
N2(%)	99,5	98,3	97,2	96,1	94,5	51,3	
ITT (Deg. C)	690	670	655	640	620	500	
Fuel Flow (pph)	1720	1610	1480	1410	1250	230	
Oil Press (psia)	77	73	74	74	74	39	
Oil Temp. (deg. F)	99	103	103	102	100	77	

Corrected Engine Parameters Calculation

N1 (%)	89,1	87,1	85,2	83,2	79,3	23,3
N2(%)	98,0	96,8	95,7	94,6	93,1	50,5
T45 or T5 (Deg. C)	661	641	627	612	593	477

Run Down Time

N1 : (seconds)	70	N2: (seconds)	78
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Pratt & Whitney Canada

Une société de United Technologies/A United Technologies Company

Turbofan Engine Installation Calibration and Performance Check Curves,

Corrected N1 vs. N2 and N1 vs. T4.5

P&WC 9935 (1999-10)

1000, Marie-Victorin
Longueuil, Quebec
Canada, J4G 1A1

Date: 28/out/15

A/C Reg. No.: PP-RST

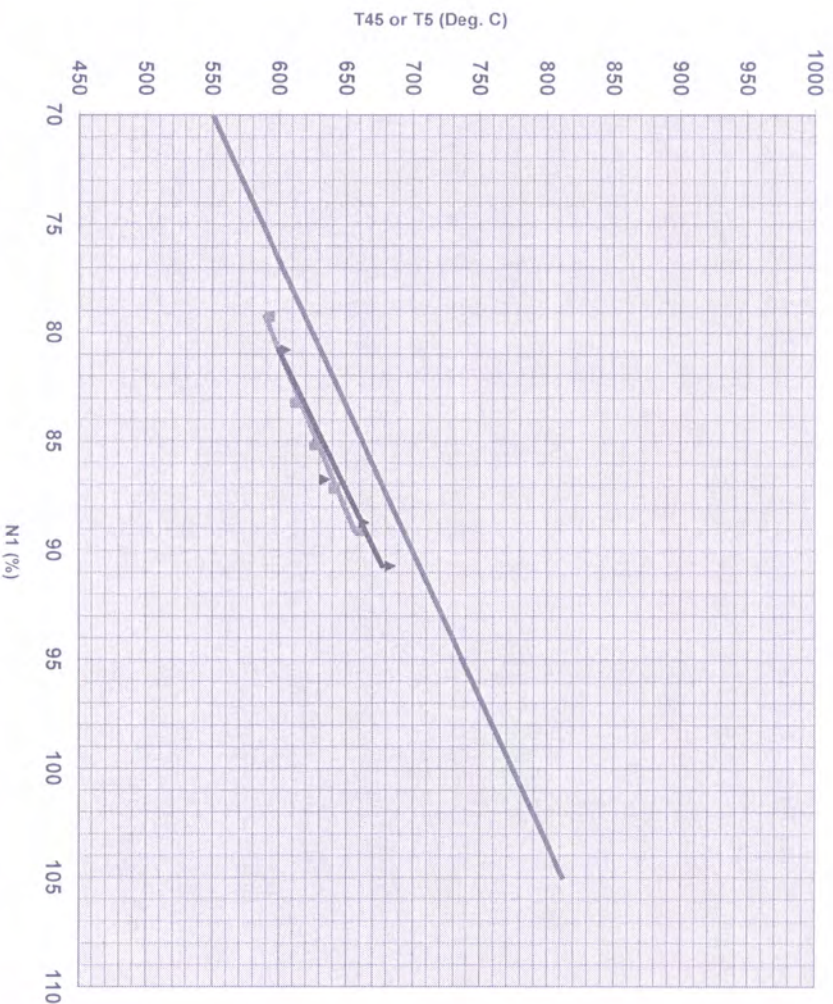
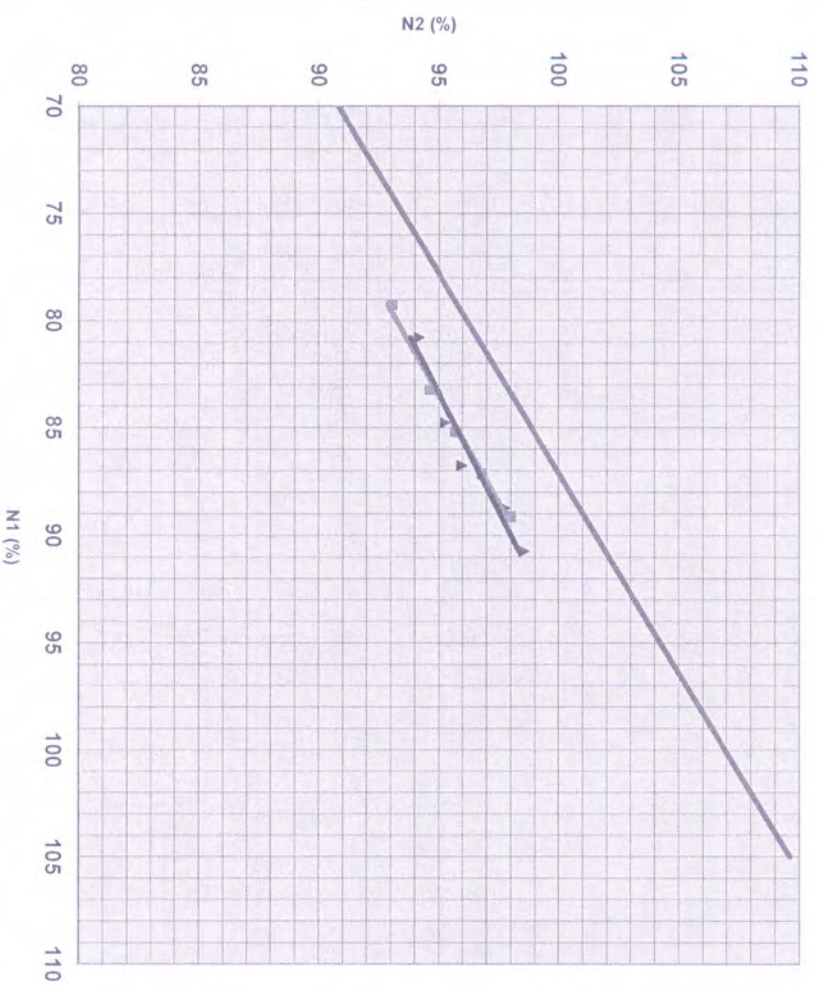
Engine S/N: DD0164

Engine Position: RH # 2

Engine Total Time since New: 0

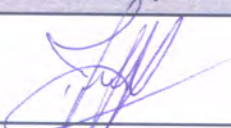
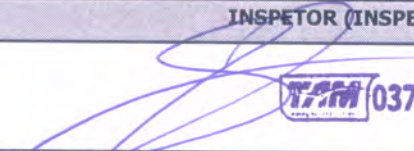

Engine Total time Since Ovhl: 1

Engine Model PW545B



■ Final Cal. ▲ Initial Cal. — Max Limit — Final Cal. — Initial Cal.

■ Final Cal. ▲ Initial Cal. — Linear (Max Limit) — Linear (Final Cal.) — Linear (Initial Cal.)

FICHA DE SERVIÇO(WORK SHEET)					
ITEM(ITEM)	OS(W.O.)	PREFIXO(ACFT. REG)	SN	INÍCIO(DATE IN)	TÉRMINO (DATE OUT)
3	83428	PP-RST	560-5579	08/07/2016	13/07/16
SERVIÇO (SERVICE REQUESTED)					
EFETUAR INSPEÇÃO DE CORROSÃO EXTERNA E INTERNA (LAVATORIO)					
SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED)					
EFETUADA INSPEÇÃO DE CORROSÃO EXTERNA E INTERNA NA					
AERONAVE CONFORME INSTRUÇÕES CONTIDAS NAS TAREFAS E CAPÍTULOS					
32-00-00-230, 53-00-00230, 55-30-03-232, 55-30-01-233, 57-30-00-230,					
53-90-00-233. DO M.M. CESSNA MODELO 560XL REV. 41					
MATERIAIS (MATERIALS)					
DESCRIÇÃO (DESCRIPTION)		PN REMOVIDO (REMOVED)	QTD	SN REMOVIDO (REMOVED)	
DESCRIÇÃO (DESCRIPTION)		PN INST. (INSTALLED)	QTD	SN INSTALADO (INSTALLED)	
ASSINATURA E/OU CARIMBO, CONFORME APLICÁVEL (SIGNATURE AND/OR STAMP, AS APPLICABLE)					
MECÂNICO (MECHANIC)			INSPECTOR (INSPECTOR)		
			 		

FICHA DE SERVIÇO (WORK SHEET)

ITEM (ITEM)	OS (W.O.)	PREFIXO (ACFT. REG)	SN	INÍCIO (DATE IN)	TÉRMINO (DATE OUT)
4	83428	PP-RST	560-5579	08/07/2016	13/07/16

SERVIÇO (SERVICE REQUESTED)

TESTE DE TREM DE POUSO - EXTENSÃO E RETRAÇÃO

SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED)

EFETUADO CHECK OPERACIONAL DO SISTEMA DE TREM DE POUSO DA AERONAVE CONFORME DESERTO NAS INSTRUÇÕES DO M.M. CESSNA MODELO 560 XL CAPÍTULO 32-30-00 RCU.41


MATERIAIS (MATERIALS)

DESCRIÇÃO (DESCRIPTION)	PN REMOVIDO (REMOVED)	QTD	SN REMOVIDO (REMOVED)
DESCRIÇÃO (DESCRIPTION)	PN INST. (INSTALLED)	QTD	SN INSTALADO (INSTALLED)

ASSINATURA E/OU CARIMBO, CONFORME APLICÁVEL
(SIGNATURE AND/OR STAMP, AS APPLICABLE)

MECÂNICO (MECHANIC)	INSPETOR (INSPECTOR)
	

ORDEM DE SERVIÇO (WORK ORDER)	PREFIXO (ACFT REG.)	DATA DE ENTRADA (DATE-IN)	DATA DE SAÍDA (DATE-OUT)
83428	PP-RST	08/07/2016	13/07/16

N.º	Nome por Extenso (Name)	Rubrica (Initials)	N.º Licença ANAC (ANAC License#)	N.º Chapa (ID#)
Mecânicos (Mechanics)				
1	Denis Ferreira	<i>[Signature]</i>	19301	2867
2	Edson F. Mendes	<i>[Signature]</i>	19567	2823
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Inspetores (Inspectors)				
1	EDUARDO MARCA DE AMORIM	<i>[Signature]</i> TAM 057	15763	3144
2				
3	Vladilson Saldanha Cardoso Inspetor	<i>[Signature]</i> TAM 037	11989	2467
4	 Código ANAC: nº 71830-4			
5				



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S/A

CESSNA AUTHORIZED SERVICE CENTER

DEPARTAMENTO DE ATENDIMENTO AO CLIENTE

CNPJ: 52.045.457/0008-92 I.E: 407420009110 I.M.: 82283

TM 15/02

ORDEM DE SERVIÇO (WORK ORDER)	PREFIXO (ACFT REG.)	DATA DE ENTRADA (DATE-IN)	DATA DE SAÍDA (DATE-OUT)
94332	PP-RST	19/06/2018	19/06/18

CÓDIGO (Code) : C00970

PROPRIETÁRIO (Acft. Owner) :

ENDEREÇO (Address) :

CIDADE (City) :

CGC/CPF (Braz. Acft. Only) :

OS TAM DE 2018 BOROSCÓPIO NOS MOTORES

TRIPULAÇÃO (Crew) :

LOCAL - FONE (Local - Phone) :

PREFIXO (Acft Reg. No.) : PP-RST

FABRICANTE (Manufacturer) :

MODELO (Model) : 560 XL-XLS

Nº SÉRIE (S/N) : 560-5579

Nº UNIDADE (Unit No.) : 5579

ANV. HORAS (Acft. Total Hours): 2280,4

ANV. POUSOS (Acft. Landings): 1678

TOTAL COMBUSTÍVEL (Total Fuel):

TIPO DE ÓLEO (Oil Type):

MOTOR LH (ENGINE LH)

MODELO (Model) : PW545B

Nº SÉRIE (LH Eng. S/N) : PCE-DD0160

HORAS (LH Eng. Hours) : 2280,4

CICLOS (LH Eng. Cycles) : 1651

MOTOR RH (ENGINE RH)

MODELO (Model) : PW545B

Nº SÉRIE (RH Eng. S/N) : PCE-DD0164

HORAS (RH Eng. Hours) : 2280,4

CICLOS (RH Eng. Cycles) : 1651

HÉLICE LH (PROPELLER LH)

MODELO (Model) :

Nº SÉRIE (LH Eng. S/N) :

HORAS (LH Eng. Hours) :

HÉLICE RH (PROPELLER RH)

MODELO (Model) :

Nº SÉRIE (RH Eng. S/N) :

HORAS (RH Eng. Hours) :

SERVIÇOS SOLICITADOS / EXECUTADOS (REQUESTED / ACCOMPLISHED SERVICES)

O DETALHAMENTO DOS SERVIÇOS ENCONTRAM-SE EM ANEXO, A SABER (SERVICES ARE DETAILED ON THE FOLLOWING ATTACHED FORMS):

VIDE DISCREPÂNCIA(S) EM ANEXO

NOTA: APÓS A SAÍDA DA AERONAVE, ESTA O.S. SERÁ ARQUIVADA ANEXANDO-SE TODOS OS REGISTROS DE SERVIÇOS QUE HOUVER DENTRE OS SEGUINTE: INSPEÇÃO DE RECEBIMENTO, FICHAS DE INSPEÇÃO, DISCREPÂNCIAS REPORTADAS E ENCONTRADAS, BOLETINS, DA'S, LAUDOS DE OFICINAS, ETIQUETAS DE AERONAVEGABILIDADE DOS MATERIAIS/COMPONENTES INCORPORADOS E SERVIÇOS ESPECIAIS OU MODIFICAÇÕES.

NOTE: After the aircraft leaves, this W.O. will be filed with all of the following reports: receiving inspection, inspection cards, reported and found discrepancies, bulletins, AD's, shop technical reports, incorporated material/components airworthiness tags and special work or modifications.

INSPEÇÃO PRELIMINAR COMPLETADA (Preliminary Inspection Completed) por (by) : NA

INSPEÇÃO DE DANO OCULTO COMPLETADA (Hidden Damage Inspection Completed) por (by) : NA

LIBERAÇÃO DA AERONAVE PARA RETORNO AO SERVIÇO (MAINTENANCE RELEASE)

A AERONAVE, CÉLULA OU MOTOR DA AERONAVE IDENTIFICADO ACIMA RECEBEU MANUTENÇÃO, MANUTENÇÃO PREVENTIVA, RECONSTRUÇÃO, ALTERAÇÃO, MODIFICAÇÃO, REVISÃO GERAL, REPARO E/OU INSPEÇÃO DE ACORDO COM INSTRUÇÕES ATUALIZADAS CONTIDAS NO MANUAL DE MANUTENÇÃO DO FABRICANTE, NOS REGULAMENTOS DE HOMOLOGAÇÃO AERONÁUTICA SOB OS QUAIS O OPERADOR ESTÁ HOMOLOGADO, E ESTÁ APROVADO(A) PARA RETORNO AO SERVIÇO, COM RESPEITO AS TAREFAS EXECUTADAS NESTA OS, SEGUNDO TAIS REQUISITOS. (The aircraft, airframe or aircraft engine identified above was maintained, preventively maintained, rebuilt, altered, modified, overhauled, repaired and/or inspected in accordance with current instructions contained in the manufacturer's maintenance manual, in the maintenance rules of the Federal Aviation Regulations under which the operator is certified and is approved for return to service, concerning the tasks performed in this W.O., as per those requirements.)

ASSINADO POR (Signed by):

ANAC - COM 6905-01

FAA - _____

Outra (Other) - _____

TAM - AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A.



APÓLICE DE SEGURO(INSURANCE POLICY)

SERÁ DE EXCLUSIVA RESPONSABILIDADE DO CLIENTE A POSSE E APRESENTAÇÃO, QUANDO SOLICITADA, DA APÓLICE DE SEGURO DA AERONAVE QUE PERMANECER NO HANGAR PARA A COBERTURA DE QUAISQUER RISCOS E DANOS DE PERMANÊNCIA NO SOLO, ACIDENTES, TRASLADOS E VÔOS DE EXPERIÊNCIA. (The customer is responsible to have and show the aircraft insurance policy if requested, in order to cover the risks and damages concerning aircraft under maintenance, flight test, ferry flights and eventual accidents.)

LANÇADO CADERNETA

DIGITADO

Roberta Martins 18/09/18

FICHA DE SERVIÇO(WORK SHEET)

ITEM(ITEM)	OS(W.O.)	PREFIXO(ACFT. REG)	SN	INÍCIO(DATE IN)	TÉRMINO (DATE OUT)
1	94332	PP-RST	560-5579	19/06/2018	19/06/18

SERVIÇO (SERVICE REQUESTED)

EXECUTAR BOROSCOPIA NOS MOTORES Á PEDIDO DO POSSIVEL COMPRADOR

SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED)

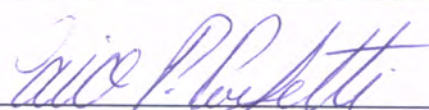

EXECUTADO BOROSCOPIA NOS MOTORES CONFORME FICHA ANEXA

MATERIAIS (MATERIALS)

DESCRIÇÃO (DESCRIPTION)	PN REMOVIDO (REMOVED)	QTD	

DESCRIÇÃO (DESCRIPTION)	PN INST. (INSTALLED)	QTD	

ASSINATURA E/OU CARIMBO, CONFORME APLICÁVEL
 (SIGNATURE AND/OR STAMP, AS APPLICABLE)

MECÂNICO (MECHANIC)	INSPETOR (INSPECTOR)
	



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
1 de (of) 22

TM 040

No. FT
MT-03-06

INFORMAÇÕES DA FICHA DE TRABALHO
(WORK SHEET DATA)

NÚMERO DA FICHA (SHEET NUMBER)	EMIÇÃO ORIGINAL: (ORIGINAL ISSUE:)	REVISÃO: (REVISION:)	DATA DA REVISÃO: (REVISION DATE):
MT-03-06	01/Nov/2006 (Nov 01, 2006)	21	21/Junho/2018 (Jun 21, 2018)

INFORMAÇÕES DA PUBLICAÇÃO TÉCNICA
(TECHNICAL PUBLICATION DATA)

DESCRIÇÃO: (DESCRIPTION):	P/N:	EMIÇÃO ORIGINAL: (ORIGINAL ISSUE:)	REVISÃO: (REVISION:)	DATA DA REVISÃO: (REVISION DATE):
PWC Maintenance Manual PW545B	30J2242	12/Dez/2003 (Dec 12, 2003)	25.0	14/Maio/2018 (May 14, 2018)

REGISTRO DE REVISÃO DA FICHA DE TRABALHO
(INSTRUCTION WORK SHEET REVISION RECORD)

REVISÃO (REVISION)	DATA (DATE)	RAZÃO DA REVISÃO (REVISION REASON)	RESPONSÁVEL (RESPONSABLE)
13	27/Julho/15 (July 27, 15)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
14	01/Dez/15 (Dec 01, 15)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
15	14/Julho/16 (July 14, 2016)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
16	12/Set/16 (Sept 12, 16)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
17	29/Nov/16 (Nov 29, 16)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Adicionado item 05. (Review the worksheet due to revision of technical publishing. Added item 5)	José Carlos Batista
18	09/Junho/17 (June 09, 17)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
19	18/Julho/17 (July 18, 17)	Revisão da ficha de trabalho devido a revisão da publicação técnica. Incluído o item 30 e o campo de aprovação e reprovação nos itens. (Review the worksheet due to revision of technical publishing. Added item 30 and the approval and disapproval field.)	José Carlos Batista
20	04/Out/17 (Oct 04, 2017)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
21	21/Jun/18 (Jun 21, 2018)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	Gabriel Giaretta Texera

APROVAÇÃO
(APPROVAL)

EMITIDO POR: (ISSUED BY:)	Gabriel Giaretta Texera	Ass: (Signature):	Data: 21/Junho/2018 (Date): (Jun 21, 2018)
APROVADO POR: (APPROVED BY:)	Luiz Rogério Fonseca	Ass: (Signature):	Data: 21/Junho/2018 (Date): (Jun 21, 2018)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 2 de (of) 33
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INFORMAÇÕES DO COMPONENTE
(COMPONENT INFORMATION)

Descrição Componente: (Part Description) <i>Motor LH</i>	Part Number: (Part Number) <i>545B</i>	Número de Série: (Serial Number) <i>000160</i>
Razão da Inspeção: (Reason of Inspection) <i>A pedido do cliente</i>	Removido da Posição: (Removed from position) <i>N/A</i>	

INFORMAÇÕES DA AERONAVE
(AIRCRAFT INFORMATION)

Prefixo da Aeronave: (Acft. Reg.) <i>PP-RST</i>	S/N Aeronave: (Aircraft S/N) <i>560-5579</i>
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ORDEM DE SERVIÇO
(WORK ORDER)

O.S. n°: (Work Order n°) <i>94332</i>	Item n°: (Item n°) <i>01</i>
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Equipamentos necessários



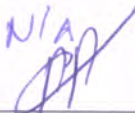





- Equipamento boroscópico com sonda de 5mm de diâmetro ou menor.
(Boroscope equipment with fiberscope of 5mm diameter or less)
- Tubo Guia PWC44026.
(Guide Tube PWC44026)
- Puller PWC30128-6.
(Puller PWC30128-6)
- Wrench PWC67699
(Wrench PWC67699)
- Fan Wedges PWC66581.
(Fan Wedges PWC66581)

NOTA:

Somente pessoas habilitadas poderão utilizar este equipamento.
 O equipamento boroscópico poderá se danificar caso seja submetido a altas temperaturas ou a quedas. Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.

(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to severe shocks. The fiberscope can be damaged if it is used after engine shutdown)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 3 de (of) 33	
	TM 040	No. FT MT-03-06	
O.S. nº: (Work Order nº)	94332	Item nº: (Item nº)	1
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

01	<p>Antes de se efetuar a inspeção boroscópica, recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 71-00-00. <i>(It is recommended that a compressor wash be performed in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.)</i></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS <i>(Damages description)</i></p> <hr/> <hr/> <hr/> </div> <p>Foi efetuado lavagem? <i>(Compressor wash has been performed?)</i></p> <p> <input type="checkbox"/> Sim (Yes) <input checked="" type="checkbox"/> Não (No) </p>	N/A 	
02	<p>Remover o starter do motor conforme instruções do Manual de Manutenção da Aeronave, capítulo 80. <i>(Remove the Starter motor in accordance with Aircraft Maintenance Manual, chapter 80)</i></p>	N/A 	
03	<p>Instalar a ferramenta PWC67699 no eixo da gearbox conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 <i>(Install the PWC67699 on the starter motor gearshaft in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)</i></p>	N/A 	
04	<p>Remover o "Cover" para inserir o equipamento boroscópico utilizando a ferramenta PWC30128-6 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 <i>(Remove the Cover using the puller PWC30128-6 to install the borescope probe in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)</i></p>		



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
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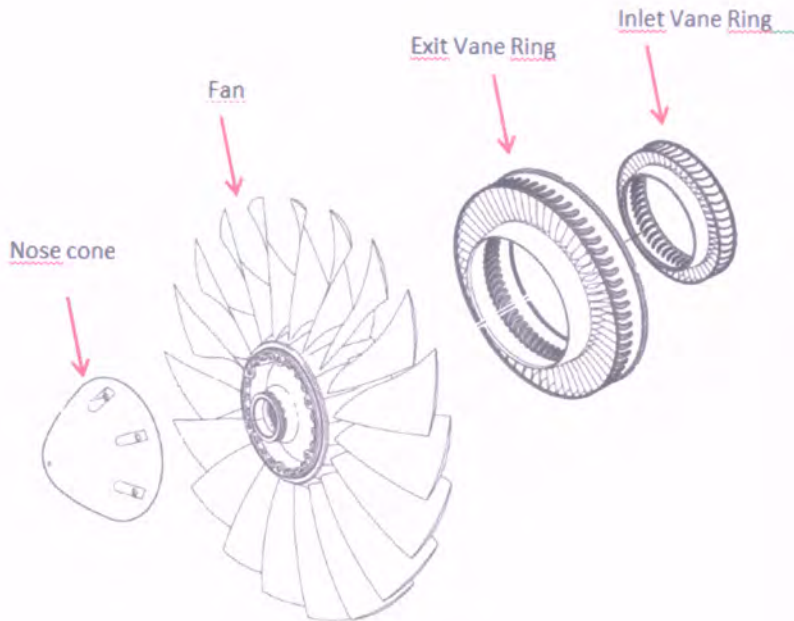
Item n°:
(Item n°)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Inspeccionar o "Fan Disk, Nose Cone, Fan case, Exit Vane Ring, Inlet Vane Ring" quanto a danos devido ingestão conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 05-50-00, seção Unscheduled Maintenance Check .
(Inspect the Fan Disk, Nose Cone, Fan case, Exit Vane Ring, Inlet Vane Ring for damage due ingestion PW545B Maintenance Manual P/N: 30J2242, section Unscheduled Maintenance Check 72-30-01)

05



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FICHA DE TRABALHO
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(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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05
(cont)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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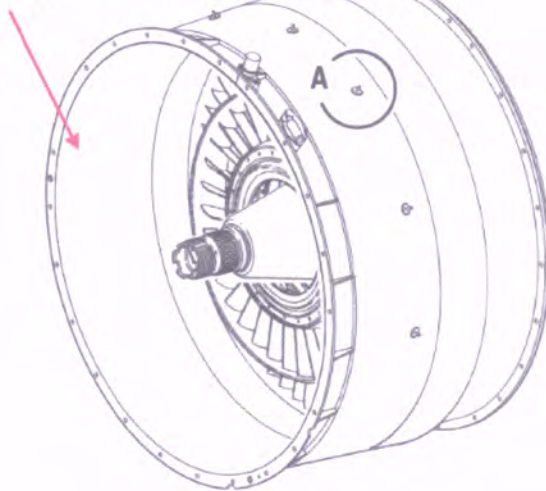
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Item n°:
(Item n°)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Fan Case



05
(cont.)

DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

30J2242(113)

06

Inspecionar as palhetas do 1° estágio do compressor de alta pressão, conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo.
(Inspect HP compressor blade first-stage in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

30J2242(113)



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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(Work Order nº)

94332

Item nº:
(Item nº)

1

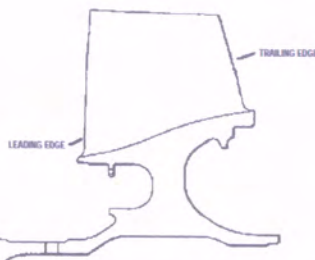
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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PP



06
(cont)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

Inspeccionar as palhetas do 2º estágio do compressor de alta pressão conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo.

(Inspect HP compressor blade second-stage in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

07





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(Item nº)

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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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FICHA DE TRABALHO
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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
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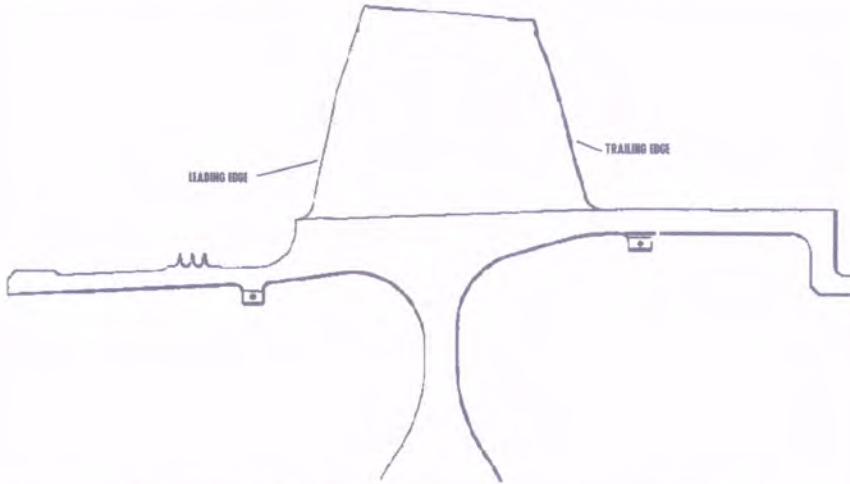
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Item n°:
(Item n°)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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07
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

08

Remover o "Bleed Valve" conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00.
(Remove the Compressor Bleed Valve in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)

09

Inspeccionar o "Impeller" do compressor de alta pressão conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect HP Compressor Impeller in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



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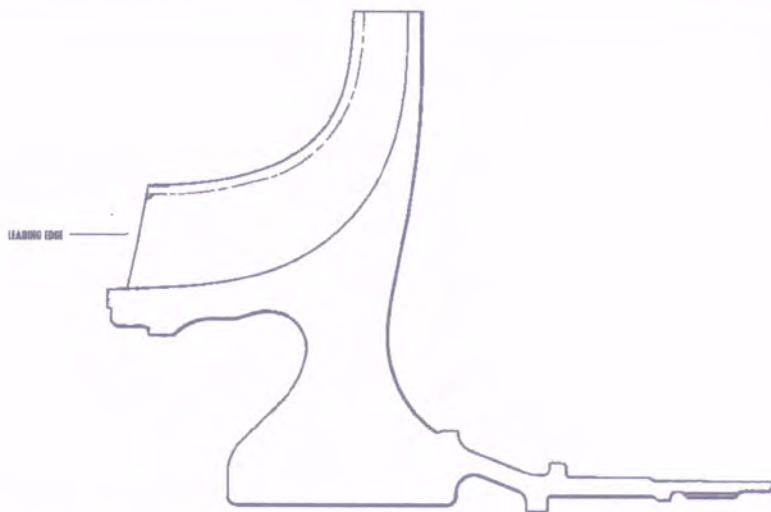
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(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

09
(cont)

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

10

Instalar novo o'ring no cover removido do item 04 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00.
(Install a new performed packing on the cover removed on the item 04 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)

11

Instalar o "Cover" e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00.
(Install the cover and torque the nut in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)



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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
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	Torque= 23 lb.in		
12	Instalar o "Plain cover" com a marcação do PN para cima e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install the plain cover with the PN facing out and torque the bolts in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) Torque= 60 lb.in		
13	Instalar a "Bleed valve" removida no item 07 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 75-30-01. (Install the bleed valve removed on item 07 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 75-30-01)		
14	Remover o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. (Disconnect the igniter connector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		
15	Remover o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)		
16	Remover a vela de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. (Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74)		
	Inspeccionar os bicos de combustível utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the fuel nozzles using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)		



FICHA DE TRABALHO
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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
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1

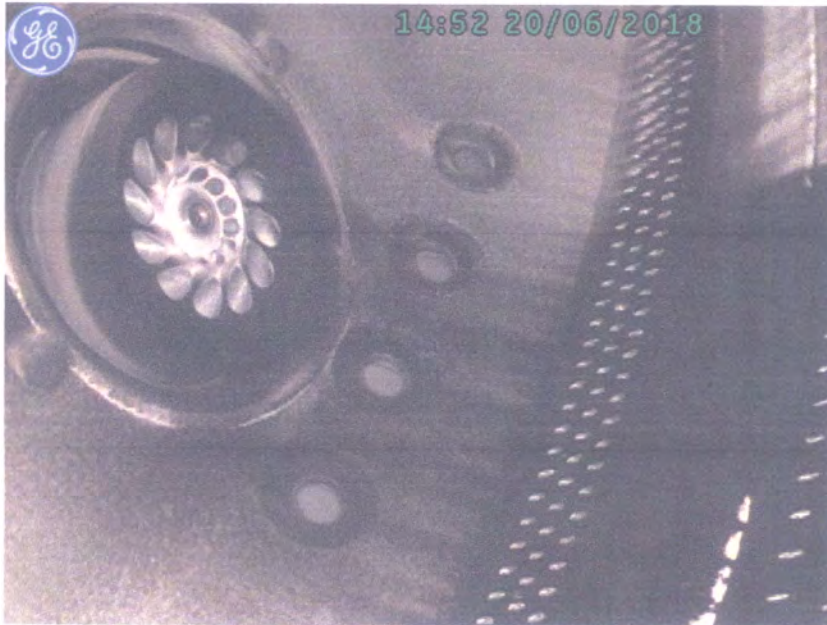
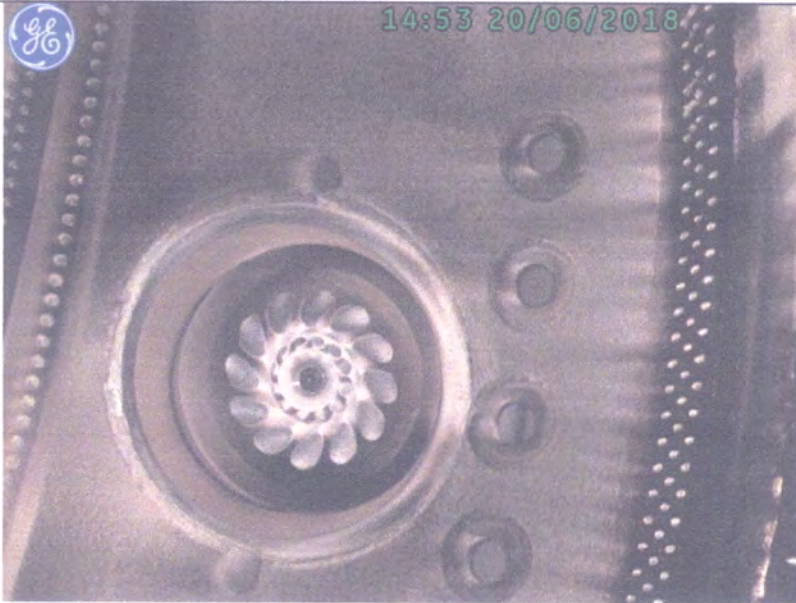
ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

17





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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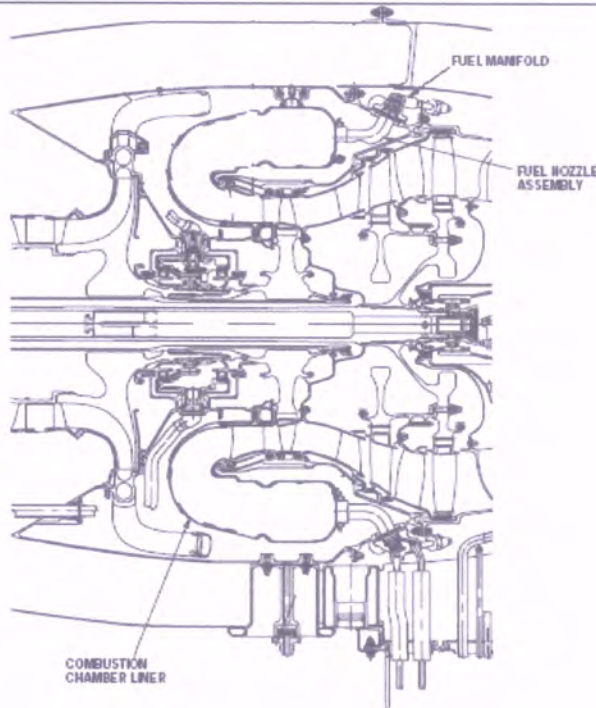
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Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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17
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

Inspecionar os "Liners" da Câmara de Combustão utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect Combustion Chamber Liner using the tool PN: PWC44026 in



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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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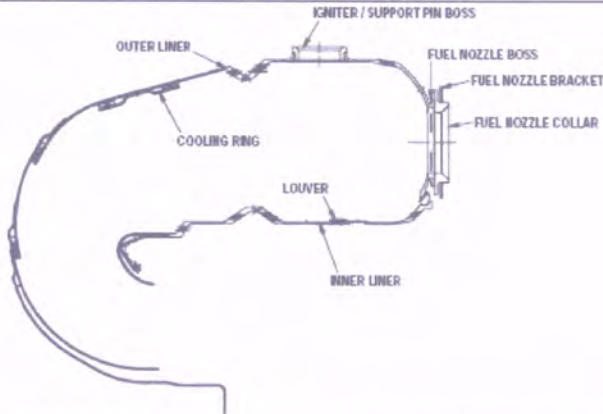
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(Item nº) 1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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18
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Observados queimas locais (LOCAL BURN) e
Carbon build-up. Porém os mesmos se
encontram dentro dos limites aceitáveis do
manual. Conferir observações na pg. 3433.


Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

19

Inspecionar a "Vane" da turbina de alta pressão do 1º estágio utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the First Stage HP Turbine Vane using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 17 de (of) 33
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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19 (cont)	<div style="text-align: center;">  14:43 20/06/2018 </div>  <div style="text-align: center;">  14:43 20/06/2018 </div> 		
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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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(Item n°)

1

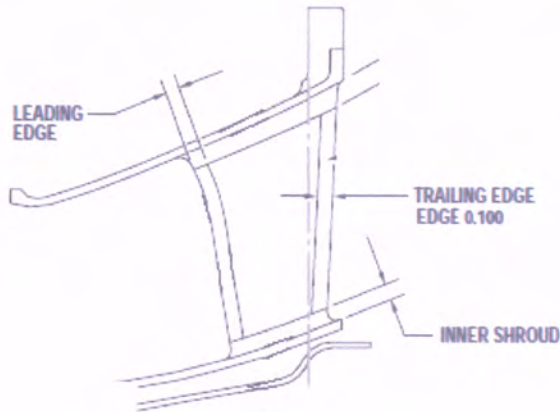
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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14:42 20/06/2018



19
(cont)




DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Observada uma trinca em uma vane.

Porém a mesma se encontra dentro dos

limites aceitáveis do manual




Conferir observação na pg. 3433

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 19 de (of) 33
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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	Resultado da inspeção. (Inspection result)		
	<input checked="" type="checkbox"/> Aprovado (Approved)		
	<input type="checkbox"/> Reprovado (Not approved)		

20	<p> Inspeccionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) </p> <div style="text-align: center;">  </div>		
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(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
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94332

Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Handwritten blue lines in the right-hand columns of the table, indicating inspection status.



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
21 de (of) 33

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

44332

Item n°:
(Item n°)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Observado Coating Loss

Conferir observações na pg 32/33

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

Inspeccionar o "Liner" do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

21





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
22 de (of) 33

TM 040

No. FT
MT-03-06

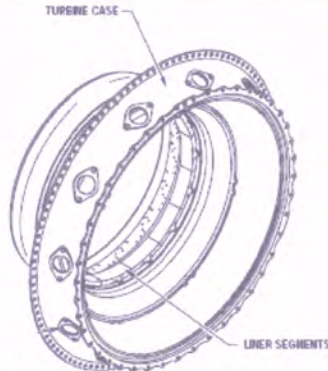
O.S. nº:
(Work Order nº)

94332

Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

21
(cont)

PP



Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

22

Inspecionar a "Vane Ring" do 2º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Vane Ring in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

PP





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
23 de (of) 33

TM 040

No. FT
MT-03-06

O.S. nº:
(Work Order nº)

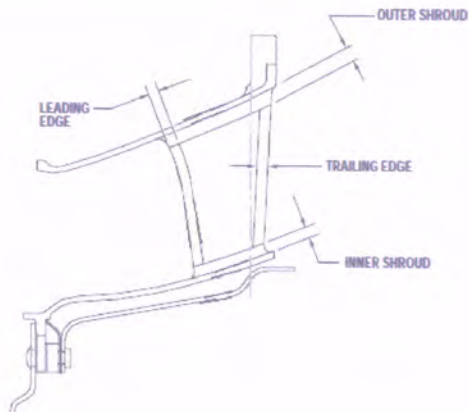
94330

Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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22
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)



23

Inspeccionar a palheta do 2º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Blades in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
24 de (of) 33

TM 040

No. FT
MT-03-06

O.S. nº:
(Work Order nº)

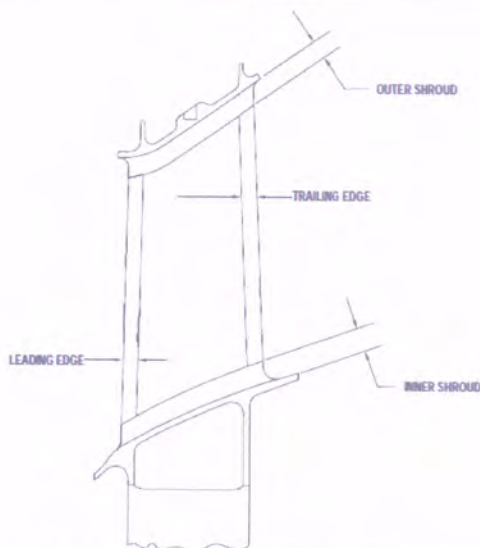
94332

Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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23
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

24

Inspeccionar a "Vane Ring" do 3º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Third Stage LP Turbine Vane Ring in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
25 de (of) 33

TM 040

No. FT
MT-03-06

O.S. nº:
(Work Order nº)

94332

Item nº:
(Item nº)

1

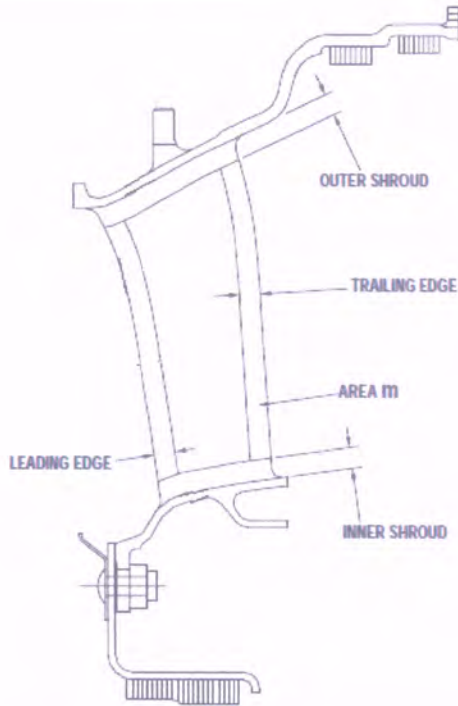
ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

24
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

25

Inspecionar a palheta do 3º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
26 de (of) 33

TM 040

No. FT
MT-03-06

O.S. nº:
(Work Order nº)

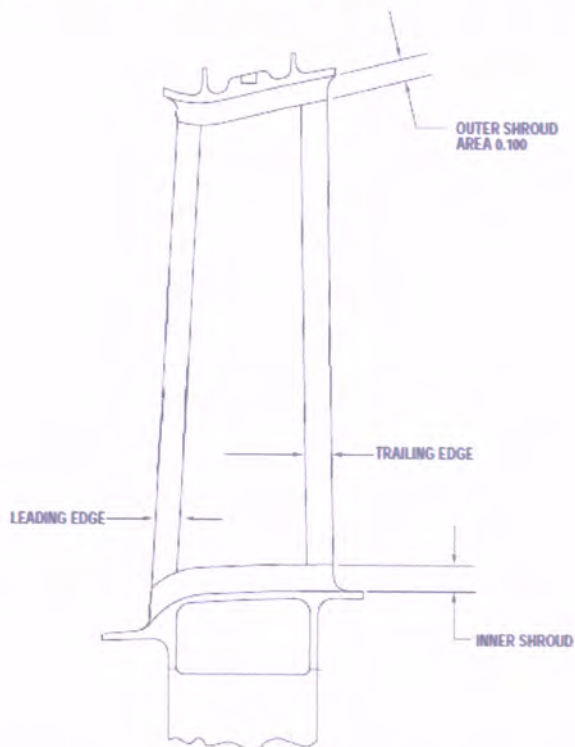
9433 2

Item nº:
(Item nº)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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(Inspect the Third Stage LP Turbine Blades in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



25
(cont)

DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

26

Inspeccionar a "Ring Vane" do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
27 de (of) 33

TM 040

No. FT
MT-03-06

O.S. nº:
(Work Order nº)

94332

Item nº:
(Item nº)

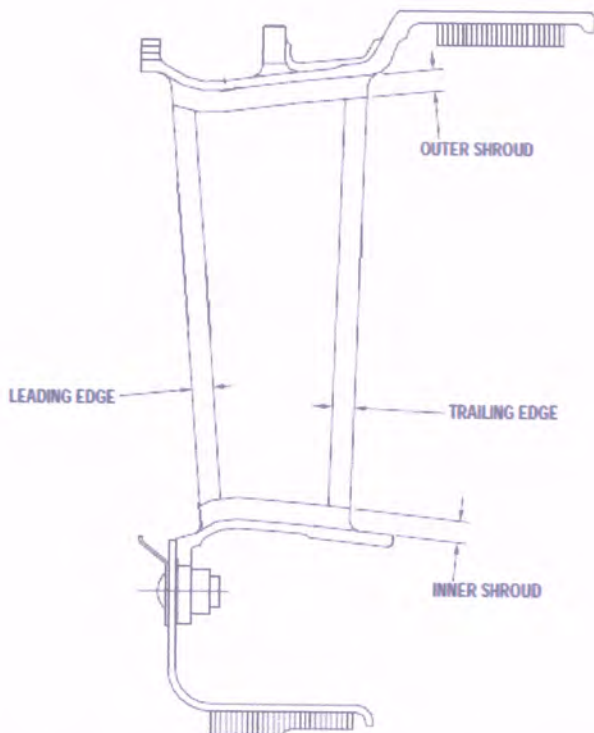
1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------

26

figura abaixo.

(Inspect the Ring Vane from Fourth Stage LP Turbine Vane in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



26
(cont)

DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado


Resultado da inspeção.
(Inspection result)



Aprovado (Approved)



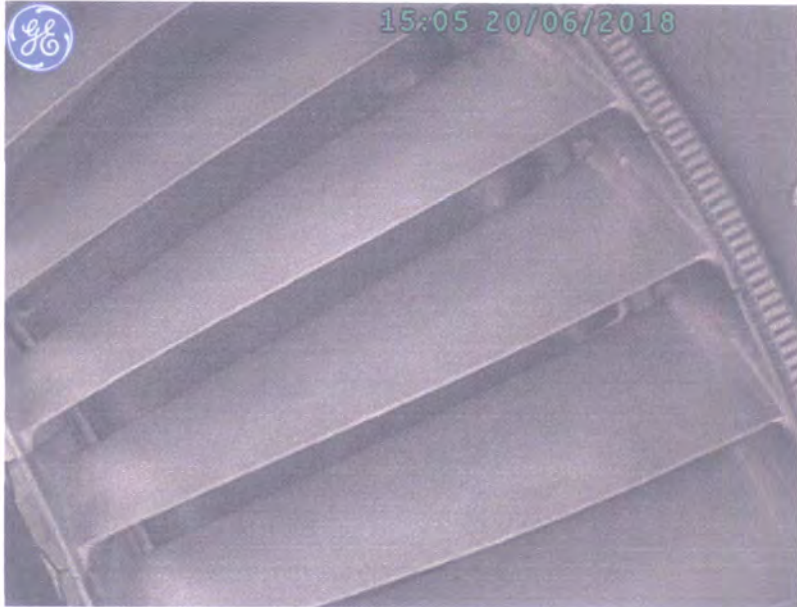
Reprovado (Not approved)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 28 de (of) 33
	TM 040	No. FT MT-03-06

O.S. nº: (Work Order nº)	94332	Item nº: (Item nº)	1
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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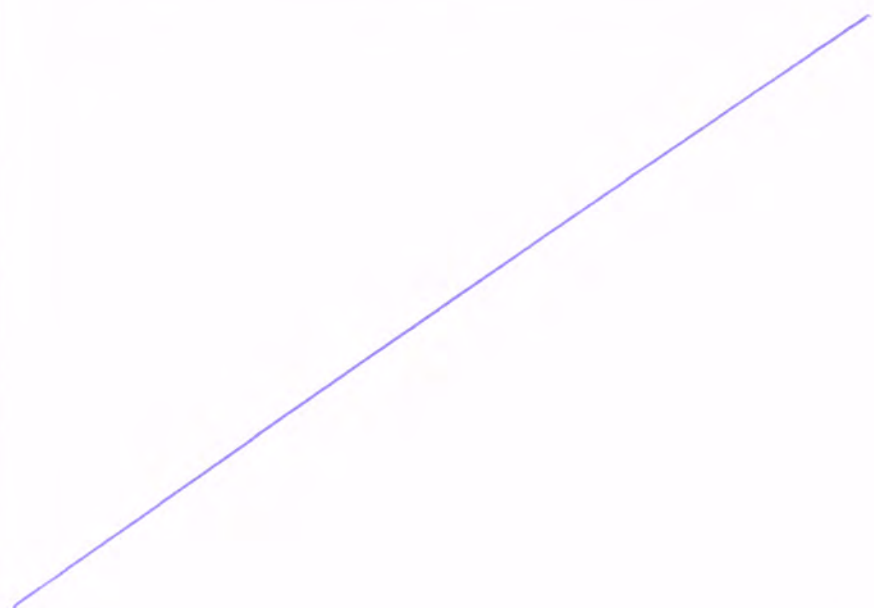
Inspeccionar a palheta do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
 (Inspect the Fourth Stage LP Turbine Blades in accordance with PW 545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



27

PP

TAM 113





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
29 de (of) 33

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

94332

Item n°:
(Item n°)

1

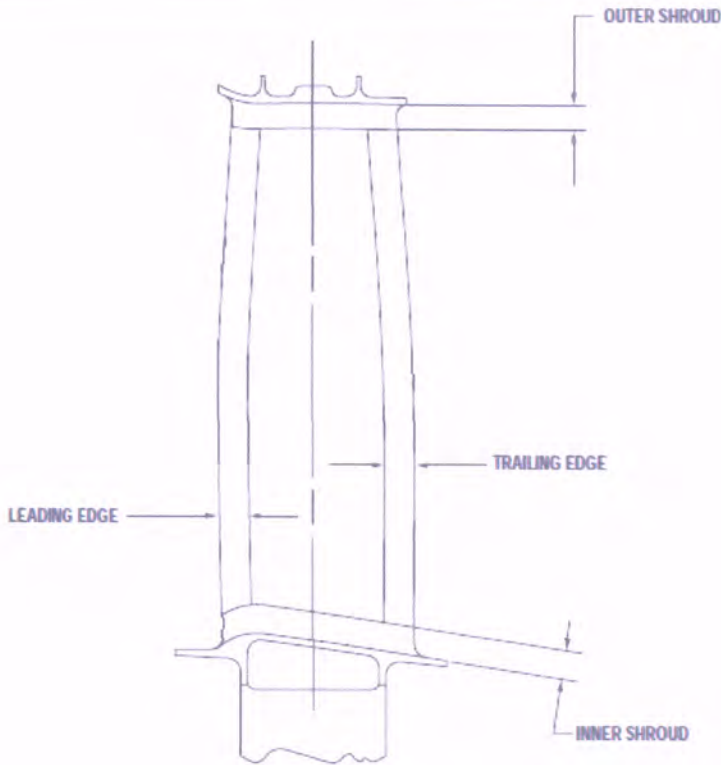
ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

27
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

TAM 113

28

Inspeccionar o mecanismo de corte de combustível conforme o manual de Manutenção do motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados.

TAM 113



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
30 de (of) 33

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

94332

Item n°:
(Item n°)

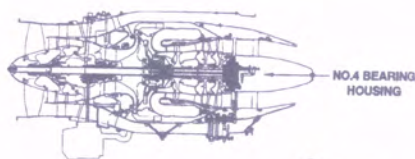
1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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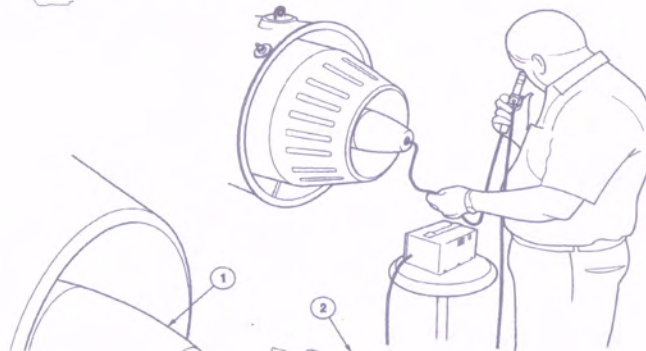
(Inspect the Fuel Shut-off Mechanism in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)




28
(cont)



NO.4 BEARING HOUSING







TAM 113



	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 31 de (of) 33
	TM 040	No. FT MT-03-06


O.S. nº: (Work Order nº)	94332	Item nº: (Item nº)	1
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------

28 (cont)	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)		
	Nenhum dano encontrado		
Resultado da inspeção. (Inspection result)			
<input checked="" type="checkbox"/> Aprovado (Approved) <input type="checkbox"/> Reprovado (Not approved)			

29 (cont)	Inspeccionar o "Intermediate Case" utilizando a ferramenta PN: PWC66581 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)		
	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)		
Observados pontos de corrosão. conforme observações na pg. 32/33			
Resultado da inspeção. (Inspection result)			
<input checked="" type="checkbox"/> Aprovado (Approved) <input type="checkbox"/> Reprovado (Not approved)			

30	Inspeccionar os "Diffuser Ducts" conforme o Manual de Manutenção do motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Diffuser Ducts in accordance with PW545B Maintenance Manual, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)		
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	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)		Folha (Sheet) 32 de (of) 33
	TM 040		No. FT MT-03-06
O.S. nº: (Work Order nº)	94332	Item nº: (Item nº)	1
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

O componente/aeronave descrito acima foi considerado:
 (The part/aircraft described above is:)



Aprovado (Approved)



Reprovado (Not approved)

Observação (Remarks):

- As queimas locais e depósitos de carbono observados na
câmara de combustão estão dentro dos limites aceitáveis do manual
conforme TABELA 605 do m.m PW 545 B cap. 72.00.00
Inspection.
- A trinca observada na Vane de HPT não é uma
trinca convergente e sim uma trinca "capilar". Desta
forma a mesma se encontra dentro dos limites
aceitáveis do manual conforme TABELA 608 do m.m
PW 545 B cap. 72.00.00 Inspection.
- Observados pontos de corrosão no intermedeio case.
Conforme TABELA 617 do m.m PW 545 B cap 72.00.00
Inspection, recomenda-se uma programação regular de
Lavagem combinada com inibidor de corrosão. Isso
previne o avanço (progressão) da corrosão.



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
31 de (of) 33

TM 040

No. FT
MT-03-06


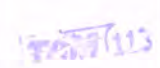

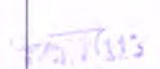

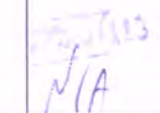






O.S. n°:
(Work Order n°)


96332

Item n°:
(Item n°)

1

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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30 (cont)	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)		
	<p>Nenhum dano encontrado</p>		
	<p>Resultado da inspeção. (Inspection result)</p> <p><input checked="" type="checkbox"/> Aprovado (Approved)</p> <p><input type="checkbox"/> Reprovado (Not approved)</p>		
31	<p>Remover as ferramentas PWC67699,PWC30128-6, PWC44026,PWC66581 instaladas anteriormente. (Remove the Tooling PWC67699,PWC30128-6,PWC44026,PWC66581 installed before)</p>		
32	<p>Instalar o starter removido do item 02 conforme instruções do Manual de Manutenção da Aeronave,capitulo 80. (Install the starter motor in accordance with Aircraft Maintenance Manual, chapter 80)</p> <p>Torque= N/A lb.in</p>	<p>N/A</p> 	<p>N/A</p> 
33	<p>Instalar a vela de ignição conforme instruções do Manual de Manutenção da Aeronave capitulo 74. (Install the igniter plug in accordance with Aircraft Maintenance Manual, chapter 74)</p> <p>Torque= 350 lb.in</p>		
34	<p>Instalar o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave,capitulo 74. (Install the plug on the exciter box in accordance with Aircraft Maintenance Manual, chapter 74)</p>		
35	<p>Instalar o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave,capitulo 74. (Install the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)</p>		

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)		Folha (Sheet) 33 de (of) 33
	TM 040		No. FT MT-03-06
O.S. nº: (Work Order nº)	94332	Item nº: (Item nº)	1
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

• Foi observado coating loss nas blades de HPT. As mesmas se encontram dentro dos limites aceitáveis, porém o motor deve ser inspecionado novamente após 600 horas conforme tabela 609 do m.m PW 545B CAP. 72.00.00 Inspection.




Assinatura e Carimbo do Inspetor
 (Inspector Signature and Stamp)

29/06/18
 Data
 (Date)



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
1 de (of) 22

TM 040

No. FT
MT-03-06

INFORMAÇÕES DA FICHA DE TRABALHO
(WORK SHEET DATA)

NÚMERO DA FICHA (SHEET NUMBER)	EMIÇÃO ORIGINAL: (ORIGINAL ISSUE:)	REVISÃO: (REVISION:)	DATA DA REVISÃO: (REVISION DATE):
MT-03-06	01/Nov/2006 (Nov 01,2006)	21	21/Junho/2018 (Jun 21,2018)

INFORMAÇÕES DA PUBLICAÇÃO TÉCNICA
(TECHNICAL PUBLICATION DATA)

DESCRIÇÃO: (DESCRIPTION):	P/N:	EMIÇÃO ORIGINAL: (ORIGINAL ISSUE:)	REVISÃO: (REVISION):	DATA DA REVISÃO: (REVISION DATE):
PWC Maintenance Manual PW545B	30J2242	12/Dez/2003 (Dec 12,2003)	25.0	14/Maio/2018 (May 14,2018)

REGISTRO DE REVISÃO DA FICHA DE TRABALHO
(INSTRUCTION WORK SHEET REVISION RECORD)

REVISÃO (REVISION)	DATA (DATE)	RAZÃO DA REVISÃO (REVISION REASON)	RESPONSÁVEL (RESPONSABLE)
13	27/Julho/15 (July 27, 15)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
14	01/Dez/15 (Dec 01, 15)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
15	14/Julho/16 (July 14, 2016)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
16	12/Set/16 (Sept 12, 16)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
17	29/Nov/16 (Nov 29, 16)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Adicionado item 05. (Review the worksheet due to revision of technical publishing. Added item 5)	José Carlos Batista
18	09/Junho/17 (June 09, 17)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
19	18/Julho/17 (July 18, 17)	Revisão da ficha de trabalho devido a revisão da publicação técnica. Incluído o item 30 e o campo de aprovação e reprovação nos itens. (Review the worksheet due to revision of technical publishing. Added item 30 and the approval and disapproval field.)	José Carlos Batista
20	04/Out/17 (Oct 04, 2017)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	José Carlos Batista
21	21/Jun/18 (Jun 21, 2018)	Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No change procedure)	Gabriel Giaretta Texera


APROVAÇÃO
(APPROVAL)





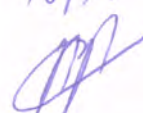



EMITIDO POR: (ISSUED BY:)	Gabriel Giaretta Texera	Ass: (Signature):	Data: 21/Junho/2018 (Date): (Jun 21, 2018)
APROVADO POR: (APPROVED BY:)	Luiz Rogério Fonseca	Ass: (Signature):	Data: 21/Junho/2018 (Date): (Jun 21, 2018)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 2 de (of) 35
	TM 040	No. FT MT-03-06

INFORMAÇÕES DO COMPONENTE (COMPONENT INFORMATION)			
Descrição Componente: (Part Description)	Part Number: (Part Number)	Número de Série: (Serial Number)	
<i>Motor RH</i>	<i>545B</i>	<i>PCE-DD0164</i>	
Razão da Inspeção: (Reason of Inspection)	Removido da Posição: (Removed from position)		
<i>A pedido do cliente</i>	<i>N/A</i>		
INFORMAÇÕES DA AERONAVE (AIRCRAFT INFORMATION)			
Prefixo da Aeronave: (Acf. Reg.)	S/N Aeronave: (Aircraft S/N)		
<i>PP-RST</i>	<i>560-5579</i>		
ORDEM DE SERVIÇO (WORK ORDER)			
O.S. nº: (Work Order nº)	Item nº: (Item nº)		
<i>94332</i>	<i>01</i>		
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
<u>Equipamentos necessários</u>			
<ul style="list-style-type: none"> • Equipamento boroscópico com sonda de 5mm de diâmetro ou menor. (Boroscope equipment with fiberscope of 5mm diameter or less) • Tubo Guia PWC44026. (Guide Tube PWC44026) • Puller PWC30128-6. (Puller PWC30128-6) • Wrench PWC67699 (Wrench PWC67699) • Fan Wedges PWC66581. (Fan Wedges PWC66581) 			

NOTA:
<p>Somente pessoas habilitadas poderão utilizar este equipamento. O equipamento boroscópico poderá se danificar caso seja submetido a altas temperaturas ou a quedas. Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.</p> <p><i>(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to severe shocks. The fiberscope can be damaged if it is used after engine shutdown)</i></p>

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 3 de (of) 35	
	TM 040	No. FT MT-03-06	
O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01		
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

01	<p>Antes de se efetuar a inspeção boroscópica, recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 71-00-00. (It is recommended that a compressor wash be performed in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS</th> </tr> <tr> <th style="text-align: center;">(Damages description)</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> </tbody> </table> <p style="text-align: center;">Foi efetuado lavagem? (Compressor wash has been performed?)</p> <p> <input type="checkbox"/> Sim (Yes) <input checked="" type="checkbox"/> Não (No) </p>	DESCRIÇÃO DOS DANOS OBSERVADOS	(Damages description)					N/A 	N/A 
DESCRIÇÃO DOS DANOS OBSERVADOS									
(Damages description)									
02	<p>Remover o starter do motor conforme instruções do Manual de Manutenção da Aeronave, capítulo 80. (Remove the Starter motor in accordance with Aircraft Maintenance Manual, chapter 80)</p>	N/A 	N/A 						
03	<p>Instalar a ferramenta PWC67699 no eixo da gearbox conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 (Install the PWC67699 on the starter motor gearshaft in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)</p>	N/A 	N/A 						
04	<p>Remover o "Cover" para inserir o equipamento boroscópico utilizando a ferramenta PWC30128-6 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 (Remove the Cover using the puller PWC30128-6 to install the borescope probe in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)</p>								



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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01

ITEM
(Item)

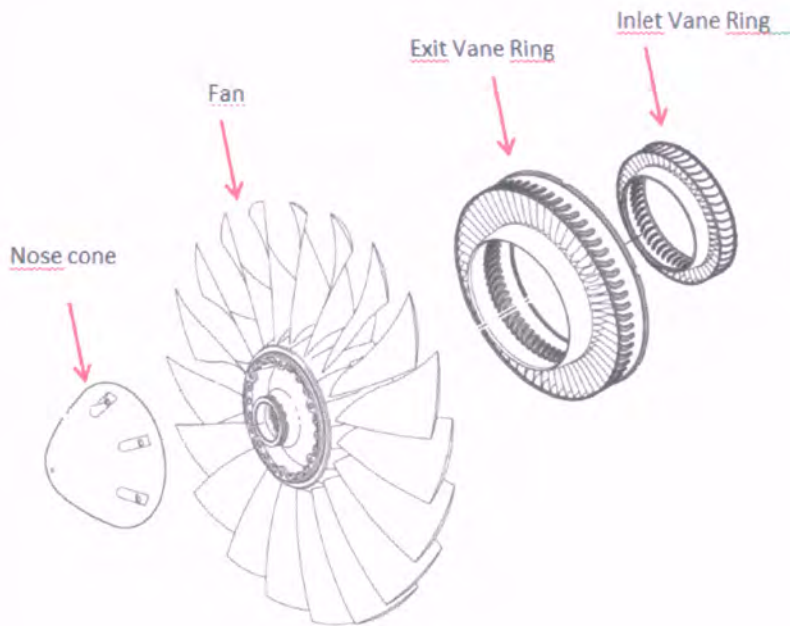
SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

Inspeccionar o "Fan Disk, Nose Cone, Fan case, Exit Vane Ring, Inlet Vane Ring" quanto a danos, devido ingestão, conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 05-50-00, seção Unscheduled Maintenance Check.
(Inspect the Fan Disk, Nose Cone, Fan case, Exit Vane Ring, Inlet Vane Ring for damage due ingestion PW545B Maintenance Manual P/N: 30J2242, section Unscheduled Maintenance Check 72-30-01)

05



PP





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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94332

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(Item nº)

OL

ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

05
(cont)








FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

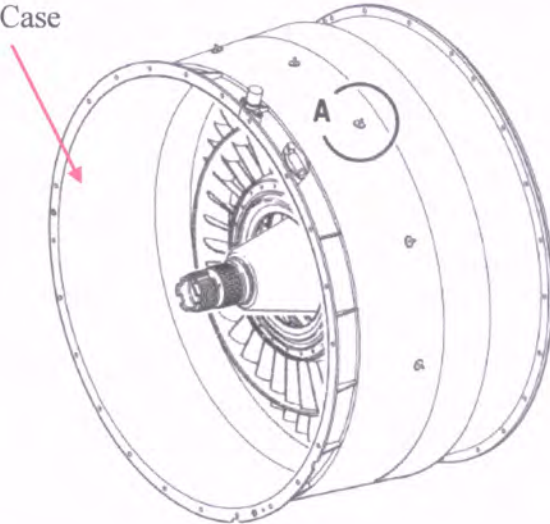
94332

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Fan Case



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado.


05
(cont.)

[Signature]

Resultado da inspeção.
(Inspection result)







Aprovado (Approved)

Reprovado (Not approved)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 7 de (of) 35
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O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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06	<p>Inspeccionar as palhetas do 1º estágio do compressor de alta pressão, conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade first-stage in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">15:45 20/06/2018</div> </div>  </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;">15:39 20/06/2018</div> </div> 	 
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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Item n°)

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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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06
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)
<i>Nenhum dano encontrado.</i>

[Handwritten signature]
[Stamp]


Resultado da inspeção.
(Inspection result)



Aprovado (Approved)



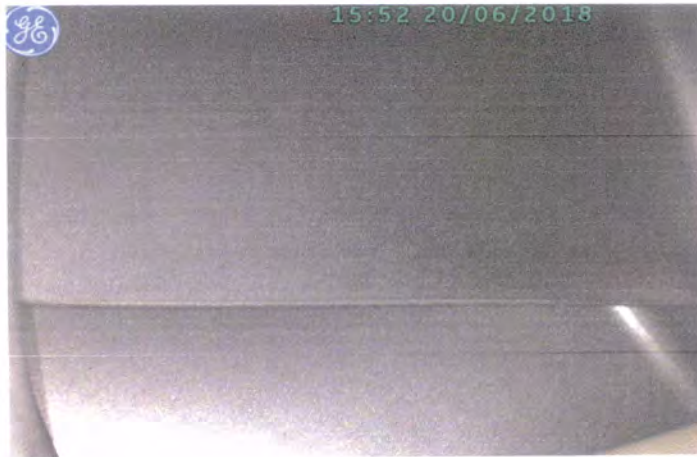
Reprovado (Not approved)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 9 de (of) 35
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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Inspeccionar as palhetas do 2º estágio do compressor de alta pressão conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo.
 (Inspect HP compressor blade second-stage in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



07
)

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FICHA DE TRABALHO
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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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(Item n°)

01

ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

07
(cont)



TAM 113



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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94332

Item nº:
(Item nº)

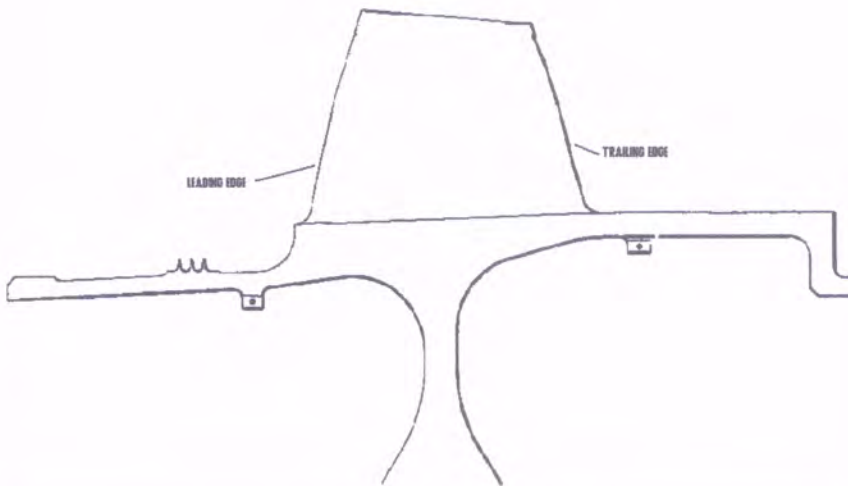
01

ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)



07
(cont)

DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)



PP



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

94332

Item nº:
(Item nº)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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08

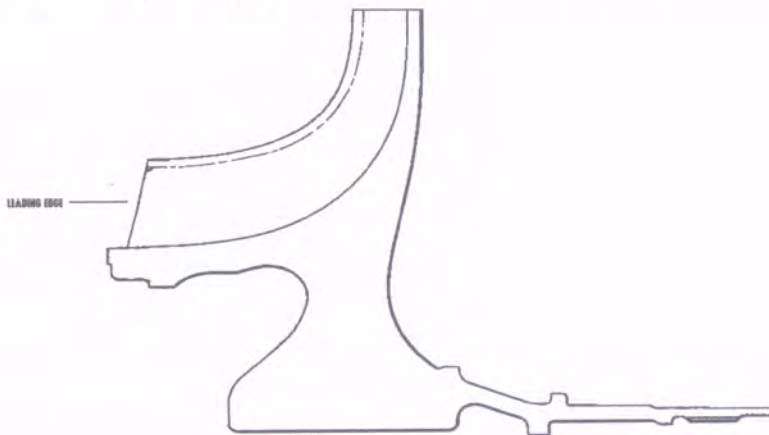
Remover o "Bleed Valve" conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00.
(Remove the Compressor Bleed Valve in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)

PP

TAM (13)

09

Inspeccionar o "Impeller" do compressor de alta pressão conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect HP Compressor Impeller in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado









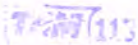






PP

TAM (13)

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

		FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)		Folha (Sheet) 13 de (of) 35	
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)		
10	Instalar novo o'ring no cover removido do item 04 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install a new performed packing on the cover removed on the item 04 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00)				
11	Instalar o "Cover" e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install the cover and torque the nut in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) Torque= 23 lb.in				
12	Instalar o "Plain cover" com a marcação do PN para cima e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install the plain cover with the PN facing out and torque the bolts in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) Torque= 60 lb.in				
13	Instalar a "Bleed valve" removida no item 07 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 75-30-01. (Install the bleed valve removed on item 07 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 75-30-01)				
14	Remover o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. (Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)				
15	Remover o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)				
16	Remover a vela de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. (Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74)				



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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(Item nº)

01

ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

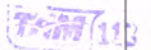
Inspecionar os bicos de combustível utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the fuel nozzles using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

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PP





FICHA DE TRABALHO
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FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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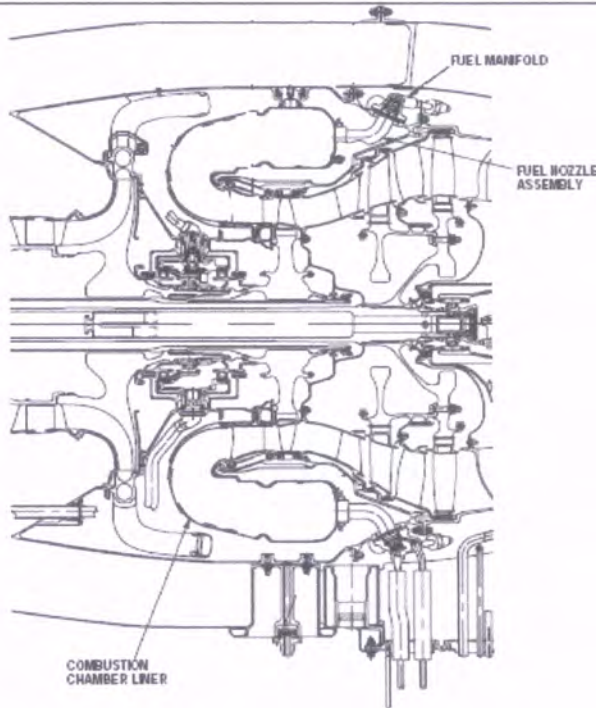
94332

Item n°:
(Item n°)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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17
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)


Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)



	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 16 de (of) 35	
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

Inspeccionar os "Liners" da Câmara de Combustão utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect Combustion Chamber Liner using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

18



PP

TAM 113



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
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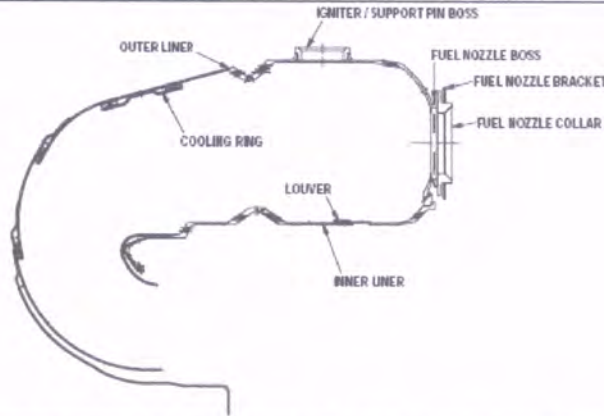
ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

18
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Observados "local burn" e "carbon build up". Porém os mesmos encontram-se dentro dos limites aceitáveis do manual.

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

PP



19

Inspeccionar a "Vane" da turbina de alta pressão do 1º estágio utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.
(Inspect the First Stage HP Turbine Vane using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

PP





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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Item n°:
(Item n°)

01

ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)



19
(cont)





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

94332

Item nº:
(Item nº)

OL

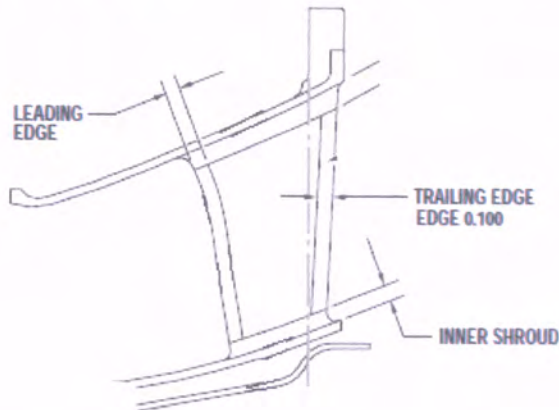
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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PP




19
(cont)



DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)



Nenhum dano encontrado






	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 20 de (of) 35
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O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) OL
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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19 (cont)	Resultado da inspeção. (Inspection result) <input checked="" type="checkbox"/> Aprovado (Approved) <input type="checkbox"/> Reprovado (Not approved)		
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20	<p>Inspeccionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p> <div style="text-align: center;">  </div>		
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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Item nº)

01

ITEM
(Item)

SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

20
(cont)



PP



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Observado "coating loss".
Observações nas páginas 33 e
34.

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

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(Work Order nº)

94332

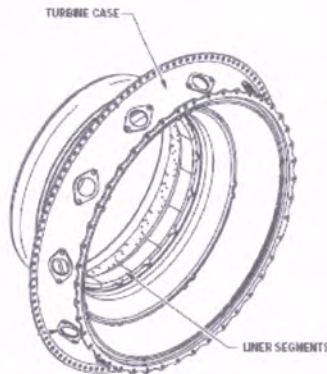
Item nº:
(Item nº)

OL

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------

Inspeccionar o "Liner" do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



21

PP



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano encontrado.

Resultado da inspeção.

(Inspection result)



Aprovado (Approved)



Reprovado (Not approved)



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
23 de (of) 35

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

94332

Item n°:
(Item n°)

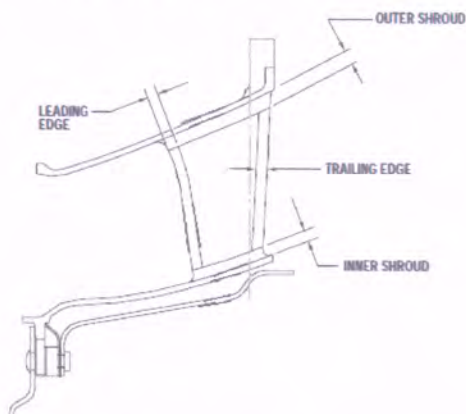
01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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22

Inspecionar a "Vane Ring" do 2º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Vane Ring in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

PP




23

Inspecionar a palheta do 2º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Second Stage LP Turbine Blades in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)

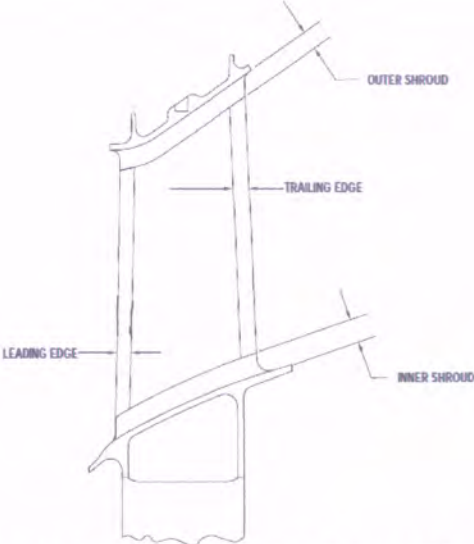


PP





	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 24 de (of) 35
	TM 040	No. FT MT-03-06

O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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23 (cont)								
	<table border="1" style="width: 100%;"> <tr> <th style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS</th> </tr> <tr> <td style="text-align: center;">(Damages description)</td> </tr> <tr> <td style="text-align: center;"><i>Nenhum dano encontrado</i></td> </tr> <tr> <td style="text-align: center;"><hr/></td> </tr> <tr> <td style="text-align: center;"><hr/></td> </tr> </table>	DESCRIÇÃO DOS DANOS OBSERVADOS	(Damages description)	<i>Nenhum dano encontrado</i>	<hr/>	<hr/>		
DESCRIÇÃO DOS DANOS OBSERVADOS								
(Damages description)								
<i>Nenhum dano encontrado</i>								
<hr/>								
<hr/>								
	<p>Resultado da inspeção. (Inspection result)</p> <p><input checked="" type="checkbox"/> Aprovado (Approved)</p> <p><input type="checkbox"/> Reprovado (Not approved)</p>							

24	<p>Inspeccionar a "Vane Ring" do 3º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Third Stage LP Turbine Vane Ring in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</p>		
			



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
25 de (of) 35

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

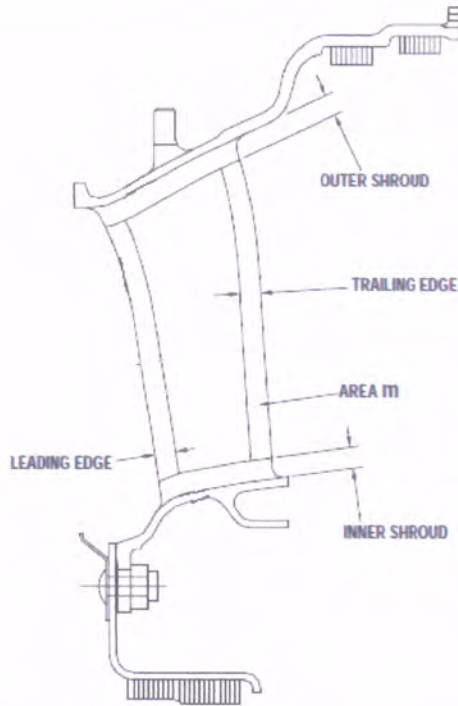
94332

Item n°:
(Item n°)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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24
(cont)



PP

11/13


DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)



Aprovado (Approved)

Reprovado (Not approved)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 26 de (of) 35
	TM 040	No. FT MT-03-06

O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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25	<p>Inspeccionar a palheta do 3º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.</p> <p><i>(Inspect the Third Stage LP Turbine Blades in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)</i></p> <div style="text-align: center;">  </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)</p> <p style="text-align: center; font-size: 1.2em; color: blue;"><i>Nenhum dano encontrado</i></p> </div> <p style="text-align: center; margin-top: 20px;">Resultado da inspeção. (Inspection result)</p> <p> <input checked="" type="checkbox"/> Aprovado (Approved) <input type="checkbox"/> Reprovado (Not approved) </p>	 	
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FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
27 de (of) 35

TM 040

No. FT
MT-03-06

O.S. nº:
(Work Order nº)

94332

Item nº:
(Item nº)

01

ITEM
(Item)

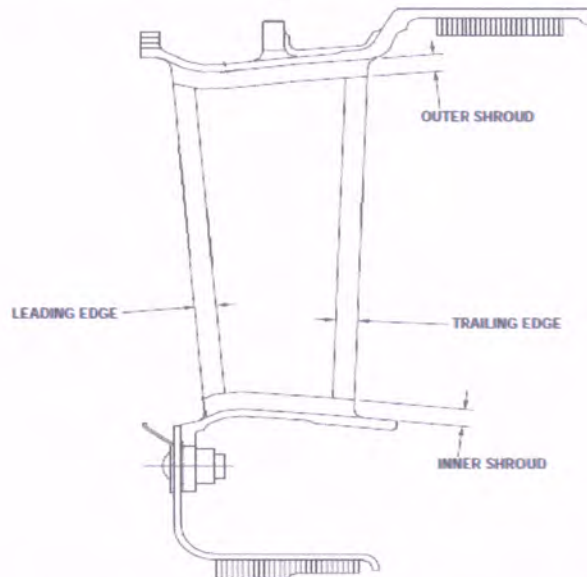
SERVIÇO A EXECUTAR
(Work to perform)

MEC
(Mechanic)

INSP
(Inspector)

Inspeccionar a "Ring Vane" do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.

(Inspect the Ring Vane from Fourth Stage LP Turbine Vane in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



26

DESCRIÇÃO DOS DANOS OBSERVADOS
(Damages description)

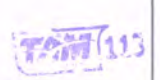
Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)

Aprovado (Approved)

Reprovado (Not approved)

PP





FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
28 de (of) 35

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

94332

Item n°:
(Item n°)

01

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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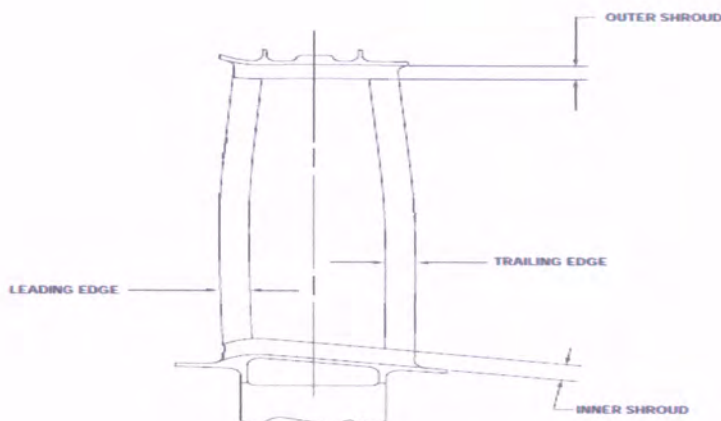
Inspeccionar a palheta do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo.


(Inspect the Fourth Stage LP Turbine Blades in accordance with PW 545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.)



27

PP
TAM 113




	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 29 de (of) 35
	TM 040	No. FT MT-03-06

O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
----------------	---	-------------------	---------------------

27 (cont)	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)		
	<i>Nenhum dano encontrado</i>		
	Resultado da inspeção. (Inspection result)		
	<input checked="" type="checkbox"/> Aprovado (Approved)		
	<input type="checkbox"/> Reprovado (Not approved)		

28	Inspeccionar o mecanismo de corte de combustível conforme o manual de Manutenção do motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Fuel Shut-off Mechanism in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)		
			



FICHA DE TRABALHO
(WORK SHEET)
FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR
PW 545B
(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

Folha (Sheet)
30 de (of) 35

TM 040

No. FT
MT-03-06

O.S. n°:
(Work Order n°)

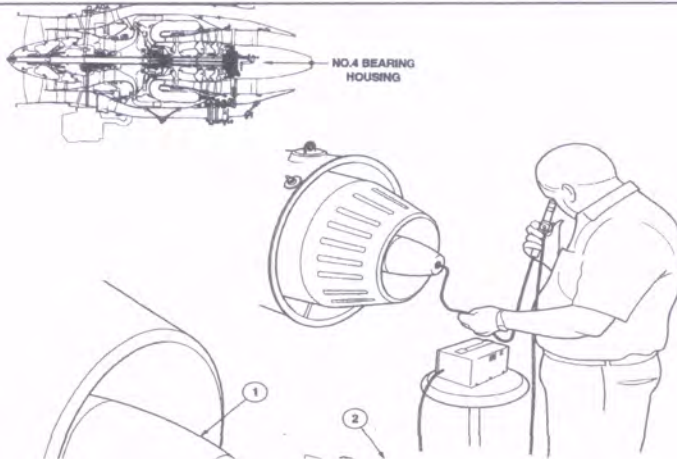
94332

Item n°:
(Item n°)

OL

ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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28
(cont)



PP



DESCRIÇÃO DOS DANOS OBSERVADOS

(Damages description)

Nenhum dano encontrado

Resultado da inspeção.
(Inspection result)



Aprovado (Approved)



Reprovado (Not approved)


29

Inspeccionar o "Intermediate Case" utilizando a ferramenta PN: PWC66581 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados.

(Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)



PP







	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 31 de (of) 35
	TM 040	No. FT MT-03-06

O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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29 (cont)	DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)		
	<p><i>Observado pontos de corrosão</i></p> <p><i>Observações nas páginas 33 e 34</i></p> <p style="text-align: center;"> Resultado da inspeção. (Inspection result) </p> <p> <input checked="" type="checkbox"/> Aprovado (Approved) </p> <p> <input type="checkbox"/> Reprovado (Not approved) </p>		

30	<p>Inspeccionar os "Diffuser Ducts" conforme o Manual de Manutenção do motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Diffuser Ducts in accordance with PW545B Maintenance Manual, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)</p>		
	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"> DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) </td> </tr> <tr> <td style="text-align: center;"> <p><i>Nenhum dano encontrado</i></p> </td> </tr> </table> <p style="text-align: center;"> Resultado da inspeção. (Inspection result) </p> <p> <input checked="" type="checkbox"/> Aprovado (Approved) </p> <p> <input type="checkbox"/> Reprovado (Not approved) </p>		
DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description)			
<p><i>Nenhum dano encontrado</i></p>			









31	<p>Remover as ferramentas PWC67699,PWC30128-6, PWC44026,PWC66581 instaladas anteriormente. (Remove the Tooling PWC67699,PWC30128-6,PWC44026,PWC66581 installed before)</p>		
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32	<p>Inspeccionar os "Diffuser Ducts" conforme o Manual de Manutenção do motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Diffuser Ducts in accordance with PW545B Maintenance Manual, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.)</p>		
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	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)	Folha (Sheet) 32 de (of) 35
	TM 040	No. FT MT-03-06

O.S. nº: (Work Order nº) 94332	Item nº: (Item nº) 01
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ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)
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32	Instalar o starter removido do item 02 conforme instruções do Manual de Manutenção da Aeronave, capítulo 80. <i>(Install the starter motor in accordance with Aircraft Maintenance Manual, chapter 80)</i> Torque= N/A lb.in	N/A 	 N/A
33	Instalar a vela de ignição conforme instruções do Manual de Manutenção da Aeronave capítulo 74. <i>(Install the igniter plug in accordance with Aircraft Maintenance Manual, chapter 74)</i> Torque= 350 lb.in		
34	Instalar o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. <i>(Install the plug on the exciter box in accordance with Aircraft Maintenance Manual, chapter 74)</i>		
35	Instalar o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave, capítulo 74. <i>(Install the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74)</i>		


O componente/aeronave descrito acima foi considerado:
 (The part/aircraft described above is:)



Aprovado (Approved)



Reprovado (Not approved)

	FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)		Folha (Sheet) 33 de (of) 35
	TM 040		No. FT MT-03-06
O.S. nº: (Work Order nº)	94332	Item nº: (Item nº)	01
ITEM (Item)	SERVIÇO A EXECUTAR (Work to perform)	MEC (Mechanic)	INSP (Inspector)

Observação (Remarks):

- (18) Referência: Tabela 605 do M.M. PWC 545B, capítulo 12-00-00, "inspection".
- (19) Referência: Tabela 617 do M.M. PWC 545B, capítulo 12-00-00, "inspection". Recomenda-se uma programação regular de lavagem, combinada com o inibidor de corrosão. Prevenindo a progressão da corrosão.
- (20) Observado "eroding loss" nas "blades" de HPT. As mesmas encontram-se dentro dos limites aceitáveis. Porém, o motor deve ser inspecionado novamente após 600 horas, conforme a tabela 609 do M.M. PWC 545B, capítulo 12-00-00, "inspection".



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S/A
CESSNA AUTHORIZED SERVICE CENTER

DEPARTAMENTO DE ATENDIMENTO AO CLIENTE
CNPJ: 52.045.457/0008-92 I.E: 407420009110 I.M.: 82283

TM 023 / 01


ORDEM DE SERVIÇO (WORK ORDER)	PREFIXO (ACFT REG.)	DATA DE ENTRADA (DATE-IN)	DATA DE SAÍDA (DATE-OUT)
94332	PP-RST	19/06/2018	19/06/18

N.º	Nome por Extenso (Name)	Rubrica (Initials)	N.º Licença ANAC (ANAC License#)	N.º Chapa (ID#)
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Mecânicos (Mechanics)

1	<i>Caio de Pires Poyfetti</i>	<i>CP</i>	<i>25375</i>	<i>3744</i>
2				
3				
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17				
18				
19				
20				

Inspetores (Inspectors)

1		<i>S L V</i>	<i>103/8973</i>	<i>2809</i>
2				
3				
4				
5				



TAM Aviação Executiva e Táxi Aéreo S.A.

Rua Monsenhor Antônio Pepe, nº 94

Jardim Aeroporto 04357-900 São Paulo - SP Brasil

Tel: +55 11 2890.7800 | Fax: +55 11 2890. 7856

Call Center Fretamento +55 11 4002.7000

Coordenação de Voo (24hs): +55 11 2890. 7756 | 28980 7753

www.tamaviacaoexecutiva.com.br

FINAL DO RELATÓRIO

PRESERVAÇÃO MOTORES

PP-RST

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Av. Emilio Antonon, s/nº
Lote 1234 - Chácara Aeroporto
13212-010 - Jundiaí, SP
Tel.: 55 11 4589.5500

Rio de Janeiro

Aerop. Santos Dumont, Balcão
20021-340 - Rio de Janeiro. RJ
Tel.: 55 21 2220.4660

Brasília

Aerop. Internacional de Brasília
Setor de Hangares L 29/30
71608-900 - Brasília, DF
Tel.: 55 61 3365.1234

Belo Horizonte - Pátio Norte

Aeroporto da Pampulha
Rua dos Hangares, 49
31710-410 - Belo Horizonte, MG
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