



Reporte de Aceptación de Certificado Tipo



Type Certificate Acceptance Report

No. FAA A37CE, Revision 20

CESSNA 208B
GRAND CARAVAN EX (867 SHP)



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RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para el modelo 208B Grand Caravan EX (867 SHP) de Cessna basados en el Certificado Tipo de la FAA número A37CE Revisión 20.

La aplicabilidad es para el modelo Cessna 208B Grand Caravan EX (867 SHP), que ya son elegibles para la Revisión de un Certificado de Aeronavegabilidad Estándar de acuerdo con los Reglamentos Aeronáuticos Colombianos RAC numeral 4.4.1.8., esta aceptación estará sujeta a cualquier requerimiento excepcional operacional que requiera ser cumplido (Ver ítem 5 de este reporte para una revisión del cumplimiento del diseño básico con las reglas operacionales).

Colombian Civil Aviation Authority grants Type Certificate Acceptance for the model 208B Grand Caravan EX (867 SHP) of Cessna based on the FAA Type Certificate A37CE Revision 20.

Applicability is for Cessna 208B Grand Caravan EX (867 SHP) model, which is eligible for the issue of a Standard Airworthiness Certificate according to Colombian Regulations - RAC section 4.4.1.8. This Acceptance is subject to any outstanding Colombian operational requirement. (See item 5 of this report for a review of compliance of the basic type design with the operating Rules).

1. INTRODUCCIÓN (INTRODUCTION)

Este reporte detalla los aspectos para la aceptación del Certificado Tipo de la FAA A37CE, con el objeto de emitir un Certificado de Aeronavegabilidad Estándar en Colombia, de acuerdo con los RAC Parte 9ª literal **§9.1 (d) y 9.2.3**.

This report details the basis on which FAA Type Certificate No. A37CE was accepted, for the issue of the Colombian Standard Airworthiness Certificate, in accordance with the RAC's, part 9.1 (d) and 9.2.3.

Específicamente este reporte está dirigido a:
Specifically the report aims to:

(a) Determinar los estándares de diseño del código de aeronavegabilidad asociados al certificado tipo extranjero para la aceptación de este modelo de aeronave en Colombia.	(a) <i>State Design standards of the airworthiness code related to the foreign Type Certificate for the acceptance of this aircraft model in Colombia.</i>
(b) Identificar cualquier condición especial, nivel equivalente de seguridad o excepción aplicable al modelo cubierto por el Certificado Tipo.	(b) <i>Identify any special conditions, Safety Equivalent Level, or applicable exception to a model covered by the Type Certificate.</i>
(c) Establecer cualquier requerimiento adicional que deba ser cumplido, antes de emitir el Certificado de Aeronavegabilidad Estándar en Colombia.	(c) <i>Determine any additional requirement that must be complied before Colombian Airworthiness Certificate be issued</i>

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2. DETALLES DE CERTIFICACIÓN DE TIPO OACI (ICAO TYPE CERTIFICATE DETAILS)

El modelo Cessna 208B Grand Caravan EX (867 SHP) cumple con los estándares de aeronavegabilidad definidos en los anexos 8 y 16 de OACI, respecto a los requisitos de diseño, requisitos de aeronavegabilidad continuada y de ruido. El fabricante establece que no existe ninguna diferencia que deba ser evaluada.

The Cessna 208B Grand Caravan EX (867 SHP) model is in compliance with the ICAO annexes 8 and 16 about rules necessities for the design, continued airworthiness conditions and noise compliance. The manufacturer establishes that there is no difference that should be evaluated.

3. DETALLES DE ACEPTACIÓN DE TIPO (TYPE ACCEPTANCE DETAILS)

La aplicación para la aceptación del Certificado Tipo de la aeronave Cessna modelo 208B Grand Caravan EX (867 SHP) fue solicitada por el fabricante el 09 de diciembre de 2014 y fue aprobada el 29 de enero de 2015, basada en el Certificado Tipo de la FAA No. A37CE, e incluye el motor Pratt & Whitney PT6A-140 y la hélice Hartzell HC-B3TN-3AF/T10890CN-2 or HC-B3TN-3AF/T10890CN(B)-2, aprobados mediante certificados tipo FAA TC No. E4EA y FAA TC No. P15EA. Como complemento al proceso de aceptación del Certificado Tipo dos Ingenieros de la UAEAC, visitaron la planta de Cessna Aircraft Company en Wichita, KS, USA.

The application for Colombian type certificate acceptance of the CESSNA 208B GRAND CARAVAN EX (867 SHP) model, was received from the manufacturer, CESSNA, on 9th December 2014, Type Acceptance Certificate was approved on 29 January 2015, based on the FAA Type Certificate A37CE, and includes the Pratt & Whitney PT6A-140 engine and Hartzell HC-B3TN-3AF/T10890CN-2 or HC-B3TN-3AF/T10890CN(B)-2 propeller, approved under FAA TC No. E4EA and FAA Type Certificate number P15EA. As complement of the TC acceptance validation process two UAEAC certification Engineers visited the Cessna Aircraft Company in Wichita, KS, USA.

4. REQUERIMIENTOS DE LOS RAC PARTE 9ª (COLOMBIAN RAC PART 9TH DATA REQUIREMENTS)

Los requerimientos establecidos en la parte Novena de los RAC han sido cumplidos y se sustentan en la hoja de datos del Certificado Tipo FAA No. A37CE Revisión 02 de fecha 01 de Febrero de 2011 y con los siguientes documentos:

The Type Data requirements of RAC Part 9 have been satisfied according to the Type Certificate Data Sheet FAA No. A37CE revision 20 dated June 20th, 2013 and the following documents:

(1) Certificados Tipos (Type certificates):



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- FAA Type-Certificate Data Sheet No. A37CE for model 208B GRAND CARAVAN EX (867 SHP) Revision 20, dated June 20th, 2013.
- Pratt & Whitney PT6A-140 engine approved under FAA Type Certificate number E4EA.
- Hartzell HC-B3TN-3AF/T10890CN-2 or HC-B3TN-3AF/T10890CN(B)-2, Propeller (FAA TC No. P15EA).

(2) Resumen de los ítems de Certificación (*Summary certification item*)

(i) *Certification Basis:*

- (1) CFR Part 36 (Acoustics) effective December 1, 1969, as amended by Amendments 36-1 through 36-28.
- (2) CFR Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 23-1 through 23-28 with additions for the Garmin G1000 and P&WC PT6A-140 engine.
- (3) CFR Part 34 (Emissions) of the Federal Aviation Regulations effective August 10, 1990, original.
- (4) Special Conditions as follows:
 - (a) 23-ACE-3: Dynamic Evaluation, Engine Installation.

(ii) *Equivalent Level of Safety Findings:*

- (1) Applicable to Model 208 and 208B equipped with the Garmin G1000 Integrated Cockpit System:
 - (a) 23.1305 Powerplant instruments – (c)(2), (c)(5), Amendment 52.
 - (b) 23.1549 Powerplant and auxiliary power unit instruments – (a) through (c), Amendment 45, additionally, with guidance from AC 23.1311-1B, Installation of Electronic Display (Section 9 - Powerplant Displays), Section 9.4 Direct-Reading Alphanumeric-Only Displays.
- (2) Applicable to Model 208 with the Garmin G1000 and 208B with or without Garmin G1000 and equipped with the optional TKS ice protection system:
 - (a) 23.207 Stall Warning – (c) Amendment 7.
- (3) Applicable to Model 208B equipped with P&WC PT6A-140 Engine:
 - (a) 23.145 Longitudinal Control. Amendment 17.

(3) Aircraft Noise Standard:

CFR Part 36 (Acoustics) effective December 1, 1969, as amended by Amendments 36-1 through 36-28.

(4) Certification Compliance Listing:

CESSNA DOCUMENT NUMBER: 208-86-018, Dated 10/01/10. DOCUMENT TITLE: MODEL 208B COMPLIANCE CHECK LIST S/N 208B-0001 & UP.



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(5) Documentación técnica del fabricante (*Maintenance Manuals, Operating Manuals and Service Instructions*)

Document for 208B GRAND CARAVAN EX (867 SHP) model	Document	Date	Revision
Aircraft Maintenance Manual (AMM)	D2078-26-13	1 December 2012.	Revision 26
Pilot Operational Handbook (POH)	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL (SERIALS 208B2197 AND 208B5000 AND ON)	22 May 2013	Revision 1
Wiring Diagram Manual (WDM)	D2079-10-13	1 December 2012	Revision 10
Propeller Owner's Manual and Logbook	Manual No. 146 61-00-46	June 2012	Revision 3
Specification & Description	EFFECTIVE SERIAL NUMBER 208 - 0567 AND ON / EFFECTIVE WITH SERIAL NUMBER 208B-5133 AND ON.	May 2014 / July 2014	Revision C

5. REQUERIMIENTOS ADICIONALES DE LOS RAC PARTE 4^a (*ADDITIONAL COLOMBIAN REQUIREMENTS RAC PART 4TH*)

A continuación se listan los requerimientos de aeronavegabilidad adicionales para la Revisión de un certificado de aeronavegabilidad estándar, definidos en el capítulo II de la Parte Cuarta, "Requisitos generales de aeronavegabilidad" y Novena de los RAC. Para aviación comercial regular se debe agregar los requerimientos establecidos en los RAC parte Cuarta, Capítulo V.

Additional requirements for the issuance of a Standard Airworthiness Certificate for an commercial aircraft that is going to operate in Colombia, in accordance with RAC's (Colombian Regulations), Part Fourth-Chapters II, VI and Chapter IX and in No. 9.2.3 Part Ninth, are as follows:

Norma (Rule)	Descripción del requerimiento (<i>Description</i>)
4.2.2.3.	REQUISITOS DE INSTRUMENTOS Y EQUIPO PARA AERONAVES CIVILES MOTORIZADAS CON CERTIFICADO DE AERONAVEGABILIDAD ESTÁNDAR DE LA REPÚBLICA DE COLOMBIA. <i>INSTRUMENT AND EQUIPMENT REQUIREMENTS FOR CIVILIAN ENGINE POWERED AIRCRAFT WITH COLOMBIAN STANDARD AIRWORTHINESS CERTIFICATE.</i>
4.2.2.4.	TRANSMISOR LOCALIZADOR DE EMERGENCIA (ELT). Uno (fijo), transmisor de dos frecuencias (121.5 y 406.0 MHz). TSO - C126.

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	<i>EMERGENCY LOCATOR TRANSMITER (ELT).</i> <i>One (fixed) 2 frequencies transmitter (121.5 and 406.0 MHz). TSO - C126.</i>
4.2.2.5	<i>LUCEs DE AERONAVES.</i> <i>AIRCRAFT'S LIGHTS.</i>
4.2.2.8	<i>USO DE TRANSPONDER ATC.</i> <i>ATC TRANSPONDER RIGHT USE.</i>
4.2.2.13	<i>SISTEMA DE ADVERTENCIA Y ALERTA DEL TERRENO (TAWS).</i> <i>TERRAIN AWARENESS AND WARNING SYSTEM (TAWS).</i>
4.2.2.14	<i>SEÑALAMIENTO DE LAS ZONAS DE PENETRACION DEL FUSELAJE.</i>
9.2.3 literal d) 4	<i>PLACAS: IDIOMA ESPAÑOL O ESPAÑOL E INGLES.</i> <i>PLACARDS: SPANISH OR ENGLISH AND SPANISH.</i>



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APENDICE 1 - LISTA DE CHEQUEO DE AERONAVES
(APPENDIX 1 – AIRCRAFT CHECK LIST)

CERTIFICADO TIPO (Type Certificate):	FAA A37CE. Revision 20, June 20, 2013.
AERONAVES (Aircraft):	CESSNA 208B GRAND CARAVAN EX (867 SHP) MODEL.
FABRICANTE (Manufacturer):	Cessna Aircraft Company. One Cessna Boulevard, Wichita, Kansas, 67277-7704 - USA.
PLANTA MOTRIZ (Engine):	Pratt & Whitney PT6A-140, FAA No. TC No. E4EA.
OPERADOR NACIONAL (National Operator):	Gobernación de Antioquia.
FUNCIONARIO(S) (Team):	JOSE ORLANDO DAZA CIFUENTES. SAUL ANDRES GONZALEZ ORDOÑEZ.
REGULACIONES R.A.C. (R.A.C. Regulation):	Numerales, 9.1 GENERALIDADES literal d), 9.2.3 CERTIFICADOS TIPO PARA PRODUCTOS AERONAUTICOS IMPORTADOS literal f) "Examen de los registros de diseño tipo y los documentos de certificación del Estado que certifico la aeronave. (literales c) y d)".

DOCUMENTACION	CUMPLIMIENTO (DOCUMENTOS REVISADOS)
1. DATOS GENERALES DEL CERTIFICADO TIPO (Type Certificate Data Sheets):	REVISION ACTUAL (Actual Revision): 20 FECHA DE REVISION (Revision Date): June 20, 2013. No. of Seats: 11 Crew: 1 pilot Fuel Capacity: 339.1 gal Usable: 335.3 gal Maximum Weight: Take-off 8807 lb Landing 8500 lb
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (Compliance Check List airworthiness code):	CESSNA DOCUMENT NUMBER: 208-86-018, Dated 10/01/10. DOCUMENT TITLE: MODEL 208B COMPLIANCE CHECK LIST, S/N 208B-0001 & UP.
3. Lista Maestra de Planos (Master Drawing List or Type Build Standard (TBS)):	Flight Into Known Icing, P&WC PT6A-140 Engine. Type Inspection Report DM208B-21 A006 Rev.
4. NIVELES EQUIVALENTES DE SEGURIDAD (Elos, Special Conditions Exceptions, CRI's):	(1) Applicable to Model 208 and 208B equipped with the Garmin G1000 Integrated Cockpit System: (a) 23.1305 Powerplant instruments – (c)(2), (c)(5), Amendment 52. (b) 23.1549 Powerplant and auxiliary power unit instruments – (a) through (c), Amendment 45, additionally, with guidance from AC 23.1311-1B, Installation of Electronic Display (Section 9 - Powerplant Displays), Section 9.4 Direct-Reading Alphanumeric-Only Displays. (2) Applicable to Model 208 with the Garmin G1000 and 208B with or without Garmin G1000 and equipped with the optional TKS ice protection system: (a) 23.207 Stall Warning – (c) Amendment 7. (3) Applicable to Model 208B equipped with P&WC PT6A-140 Engine: (a) 23.145 Longitudinal Control. Amendment 17.
5. Plano en tres vistas del conjunto (impreso o copia) (views assembly drawing (Printed or blueprint)):	Ver APENDICE 2 - ADJUNTOS See APPENDIX 2 - ATTACHMENTS
6. Planos de Configuración Interior (Interior)	Specification & Description effective serial number 208-0567 and on / effective with serial number 208B-5133 and on.

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configuration Drawings (LOPA):	
7. Manual De Operación De La Aeronave (Aircraft Operacional Manuals):	PILOT'S OPERATING HANDBOOK AND FAA APPROVED AIRPLANE FLIGHT MANUAL (SERIALS 208B2197 AND 208B5000 AND ON), 22 May 2013. Revision 1.
8. Manual de Reparaciones Estructurales, Manual de Cableado (Structural Repair Manual, Wiring Manual):	Included in the Maintenance Manual.
9. MANUAL DE MANTENIMIENTO (Maintenance Manual):	Maintenance Manual, Doc No. D2078-26-13, Dated 1 December 2012. Revision 26.
10. CATALOGO ILUSTRADO DE PARTES (Illustrated Parts Catalogue):	Illustrated Parts Catalog, Doc No. P688-12, Dated 1 December 2013. Revision 17.
11. BOLETINES DE SERVICIO, (Service Bulletins):	Cessna Web Page: https://support.cessna.com/custsupt/csupport/newlogin.jsp
12. DIRECTIVAS DE AERONAVEGABILIDAD (Airworthiness Directives):	2009-15-05 07/27/2009 Yaw bridle cable tension/2009-05-12 04/15/2009 Aileron control system/ 2008-26-10 01/05/2009 Alternate static air source selector valve/ 2008-13-06 07/30/2008 Right wing wire bundles/2008-10-02 05/12/2008 Part number identification placard/2007-10-15 06/21/2007 S1 Known Icing Equipment AFM supplements/ 2006-16-18 R1 07/18/2008 Installing a warning placard on the TAWS/RMI/2006-01-11 R1 02/22/2006 Cargo pod and landing gear fairings/2005-01-19 02/23/2005 Mode S transponders/2004-17-01 09/26/2004 Flap bellcranks/ 2004-08-17 05/17/2004 Upper and Lower Wing Strut Attach Fitting Nut/2001-10-09 06/15/2001 Automatic Flight Control Systems/98-25-02 12/22/1998 Top-mounted Antenna/ 97-25-04 01/21/1998 Airplane Flight Manual (AFM) - Limitations - Power Levers/97-01-13 02/03/1997 Fuel, Oil and Hydraulic Hoses/96-09-15 06/11/1996 Airplane Flight Manual - Icing Conditions/ 90-05-04 03/23/1990 Engine Mount Ring/ 90-05-01 03/05/1990 Bellcrank Assembly/ 88-19-06 09/30/1988 Elevators
13. CERTIFICACION DE RUIDO (Noise Compliance):	CFR Part 36 (Acoustics) effective December 1, 1969, as amended by Amendments 36-1 through 36-28.
14. OTROS (Others RVSM):	Not applicable.
15. BASES DE CERTIFICACIÓN (Certification Bases) :	(1) CFR Part 36 (Acoustics) effective December 1, 1969, as amended by Amendments 36-1 through 36-28. (2) CFR Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 23-1 through 23-28 with additions for the Garmin G1000 and P&WC PT6A-140 engine. (3) CFR Part 34 (Emissions) of the Federal Aviation Regulations effective August 10, 1990, original. (4) Special Conditions as follows: (a) 23-ACE-3: Dynamic Evaluation, Engine Installation.



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APENDICE 2 - ADJUNTOS (APPENDIX 2 - ATTACHMENTS)

Los siguientes documentos son adjuntos de este informe:

The following documents are attached to this report:

- ☒ Copia del Certificado Tipo de FAA, Numero A37CE.
Copy of FAA Type Certificate Number A37CE.
- ☒ Copia de la Hoja de Datos del Certificado Tipo para el motor de FAA Numero E4EA (Pratt & Whitney PT6A-140 Engine).
Copy of FAA Engine Type Certificate, Number E4EA (Pratt & Whitney PT6A-140 Engine).
- ☒ Copia del Certificado Tipo para la hélice de FAA. TC Numero P15EA (Hartzell Hartzell HC-B3TN-3AF/T10890CN-2 or HC-B3TN-3AF/T10890CN(B)-2).
Copy of FAA Propeller Type Certificate, Number P15EA (Hartzell HC-B3TN-3AF/T10890CN-2 or HC-B3TN-3AF/T10890CN(B)-2).
- ☒ Otros (*Others*): Airplane Drawing Three Views.

Firmas (Signatures)

.....
Jose Orlando Daza Cifuentes
Inspector de Seguridad Aérea
Air Safety Inspector
(UAEAC - Technical Group Engineer)

.....
Andrés González Ordóñez
Inspector de Seguridad Aérea
Air Safety Inspector
(UAEAC - Technical Group Engineer)

.....
Edgar Luciano Cadena Cañón
Jefe de Grupo Técnico - UAEAC
(UAEAC - Technical Group Chief)

Dated: February 6th, 2015



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The United State of America

*Department of Transportation
Federal Aviation Administration*

AIRCRAFT

Type Certificate

Number A37CE

This certificate issued to The Cessna Aircraft Company
certifies that the type design for the following product with the operating limitations and conditions therefor as specified in the Federal Aviation Regulations and the Type Certificate Data Sheet, meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Airplane Models 208, 208A, and 208B

This certificate, and the Type Certificate Data Sheet which is a part hereof, shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 2, 1982

Date of issuance: October 23, 1984
Model 208A Approved February 11, 1985
Reissued to The Cessna Aircraft Company March 3, 1986
Model 208B Approved October 9, 1986

By direction of the Administrator.

(Signature) Robert A. Gambrell Jr.
Robert A. Gambrell, Jr., Manager
Wichita Aircraft Certification Office
(Title) _____

This certificate may be transferred if endorsed as provided on the reverse hereof.

Any alteration of this certificate and/or the Type Certificate Data Sheet is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.



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DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A37CE
Revision 20
CESSNA
208
208B
June 20, 2013

TYPE CERTIFICATE DATA SHEET NO. A37CE

This data sheet which is part of Type Certificate No. A37CE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Cessna Aircraft Company
P. O. Box 7704
Wichita, Kansas 67277

I. Model 208, Caravan, 11 PCLM (Normal Category), Approved October 23, 1984; 11 PCSM (Normal Category), Approved March 26, 1986

Engine [Applicable to S/N 20800001 through 20800276]

Pratt & Whitney of Canada Ltd., PT6A-114 Turbo Prop
Pratt & Whitney of Canada Ltd., PT6A-114A Turbo Prop
(When operated to PT6A-114 operating limitations)

Engine [Applicable to S/N 20800277 and Up]

Pratt & Whitney of Canada Ltd., PT6A-114A Turbo Prop

Fuel

Aviation turbine fuel Jet A, Jet A-1, Jet B, JP-1, JP-4, JP-5 or JP-8. For required use of anti-icing additives and emergency use of aviation gasoline, refer to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

Engine Limits: [Applicable to S/N 20800001 through 20800276]

P&W PT6A-114 or PT6A-114A when operated to PT6A-114 operating limits

	Shaft Horsepower	NG Gas Generator Speed (% rpm)	Indicator Torque (ft.-lbs.)	Prop Shaft Speed (rpm)	Maximum Permissible Interturbine Temp. (°C)
Takeoff static & max. continuous	600 ⁽¹⁾	101.6	1658	1900	805
Maximum climb	600 ⁽¹⁾	101.6	1658/1970 ⁽²⁾	1900	765
Maximum cruise	600 ⁽¹⁾	101.6	1658/1970 ⁽²⁾	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	600 ⁽¹⁾	101.6	1658	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION TYPE CERTIFICATE DATA SHEET E4EA	TCDS NUMBER E4EA REVISION: 26* DATE: December 21, 2012			
	PRATT & WHITNEY CANADA MODELS: PT6A-6 PT6A-25 PT6A-40 PT6A-61 PT6A-6A PT6A-25A PT6A-41 PT6A-61A PT6A-6B PT6A-25C PT6A-41AG PT6A-65B PT6A-6/C20 PT6A-27 PT6A-42 PT6A-65R PT6A-11 PT6A-28 PT6A-42A PT6A-65AR PT6A-11AG PT6A-29 PT6A-45 PT6A-65AG PT6A-15AG PT6A-34 PT6A-45A PT6A-110 PT6A-20 PT6A-34B PT6A-45B PT6A-112 PT6A-20A PT6A-34AG PT6A-45R PT6A-114 PT6A-20B PT6A-35 PT6A-50 PT6A-114A PT6A-21 PT6A-36 PT6A-60 PT6A-116 PT6A-38 PT6A-60A PT6A-121 PT6A-60AG PT6A-135 PT6A-135A PT6A-52 PT6A-140 PT6B-9 PT6B-35F PT6D-114A			

Engines of models described herein conforming with this data sheet (which is part of Type Certificate Number E4EA) and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations, provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

TYPE CERTIFICATE (TC) HOLDER: Pratt & Whitney Canada Corp.
(Formerly Pratt & Whitney Canada, Inc., Pratt & Whitney Aircraft of Canada, Ltd., and United Aircraft of Canada, Ltd.)
Longueuil, Quebec, Canada J4G 1A1

I. MODEL TYPE (see pages 2, 3, 4, 5, 6, 7)	PT6A-6, -6A, -6B, -6/C20, -11, -11AG, -15AG, -20, -20A -20B, -21, -25, -25A, -25C, -27, -28, -29, -34, -34B, -34AG, -35, -36, -110, -112, -114, -114A, -116, -121, -135, -135A, -140, PT6D-114A Free turbine turbo-prop / 3 axial plus one centrifugal stage compressor / single annular combustion chamber, single-stage gas generator turbine / single-stage power turbine
II. MODEL TYPE (see pages 7, 8, 9, 10)	PT6A-38, -40, -41, -41AG, -42, -42A, -45, -45A, -45B, -45R, -50, -60, -60A, -60AG, -61, -61A, -52 Free turbine turbo-prop / 3 axial plus one centrifugal stage comp / single annular combustion chamber / single stage gas generator turbine / two stage power turbine
III. MODEL TYPE (see pages 10-11)	PT6A-65B, -65R, -65AR, -65AG Free turbine turbo-prop / 4 axial plus one centrifugal stage comp / single annular combustion chamber / single stage gas generator turbine / two stage power turbine
IV. MODEL TYPE (see pages 11-12)	PT6B-9, -35F Free turbine turboshaft (free turbine turboprop -35F) / 3 axial plus one centrifugal stage comp / single annular combustion chamber / single stage gas generator turbine / single stage power turbine

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PAGE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
REV.	25	22	22	22	25	25	21	23	23	22	22	25	23	24	25	23	25	25	23	25	22	25	26			

LEGEND: "- ." INDICATES "SAME AS PRECEDING MODEL"

"---" NOT APPLICABLE

NOTE: , SIGNIFICANT CHANGES ARE BLACK-LINED IN THE LEFT MARGIN.



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DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION

P15EA
 Revision 27
 Hartzell
 HC-B3T
 October 31, 2014

TYPE CERTIFICATE DATA SHEET NO. P15EA

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. P15EA) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

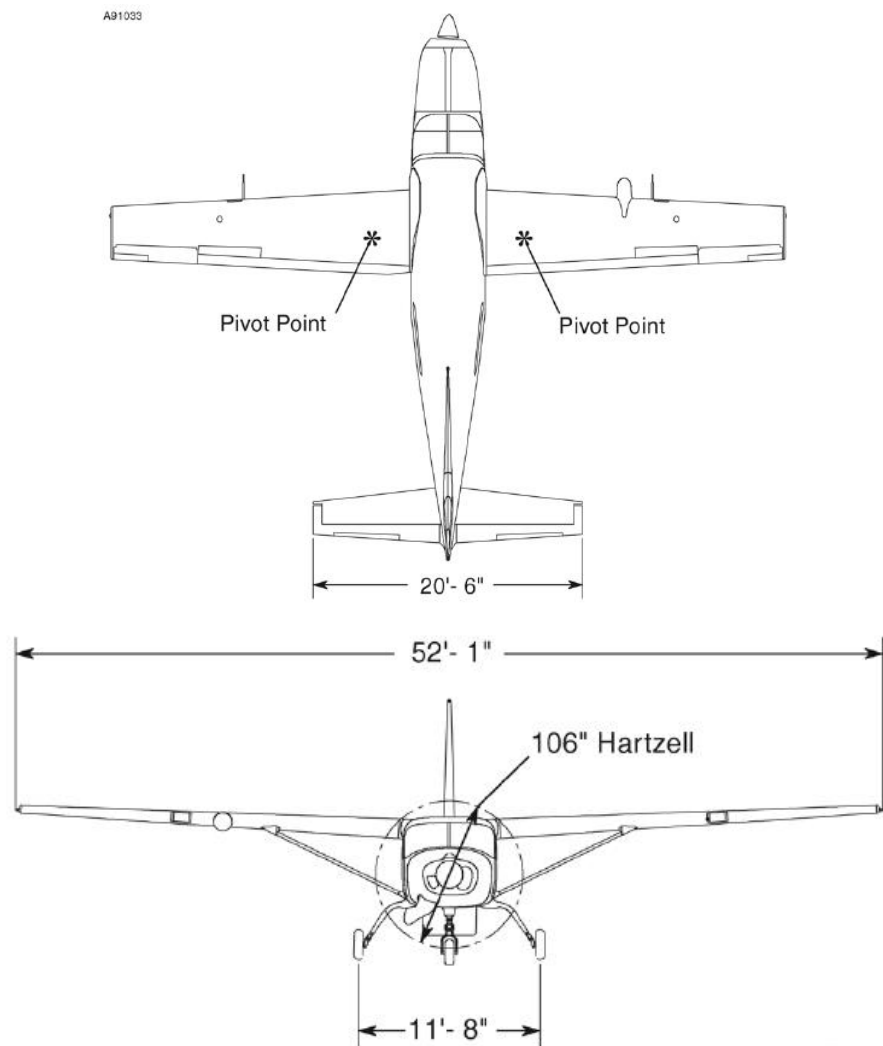
Type Certificate Holder	Hartzell Propeller Inc. Piqua, OH 45356
Type	Constant speed; hydraulic (see Notes 3 and 4)
Engine shaft	Special flange: (see Note 1)
Hub material	Alloy Steel
Blade material	See below
Number of blades	Three
Hub models	HC-B3TN-2, HC-B3TN-3, HC-B3TN-5, HC-B3TN-7, HC-B3TF-7, HC-B3TW-3 (see Notes 1 and 4)

Blades (see Note 2)	Maximum Continuous		Takeoff		Diameter Limits	Approx. Max. Wt. Complete (For Reference Only)	Blade Construction
	HP	RPM	HP	RPM	(see Note 2)	(see Notes 3 and 7)	
HC-B3TN-2, HC-B3TN-3, HC-B3TN-5, HC-B3TN-7							
T10172(-)0 to T10172(-)21	500	2200	550	2200	101 3/8" to 80 3/8" (-0 to -21)	105 lb. *	Aluminum Alloy
T10173(+)-1 to T10173(-)25	680	2200	680	2200	102 3/8" to 76 3/8" (+1 to -25)	105 lb. *	Aluminum Alloy
T10173(-)8 to T10173(-)12	750	2200	750	2200	93 3/8" to 89 3/8" (-8 to -12)	105 lb. *	Aluminum Alloy
T10173A-0 to T10173A-21	750	2000	750	2000	101 3/8" to 80 3/8" (-0 to -21)	108 lb. *	Aluminum Alloy
T10173D-0 to T10173D-21	850	2000	850	2000	101 3/8" to 80 3/8" (-0 to -21)	110 lb. *	Aluminum Alloy
T10176(+)-1 to T10176(-)21	680	2200	680	2200	102 3/8" to 80 3/8" (+1 to -21)	105 lb. *	Aluminum Alloy
T10178(-)0 to T10178(-)21	750 or 850	2200 2000	800 or 1000	2200 2000	101 3/8" to 80 3/8" (-0 to -21)	112.5 lb. **	Aluminum Alloy
T10282(+)-6 to T10282(-)16	725	1591	776	1591	108" to 86" (+6 to -16)	113 lb. **	Aluminum Alloy
T10282(+)-6 to T10282(+)-4	725 or 600	1591 2000	776 or 600	1591 2000	108" to 106" (+6 to +4)	113 lb. **	Aluminum Alloy
T10282(+)-4 to T10282(-)0	750 or 600	2200 2000	750 or 600	2200 2000	106" to 102" (+4 to -0)	113 lb. **	Aluminum Alloy



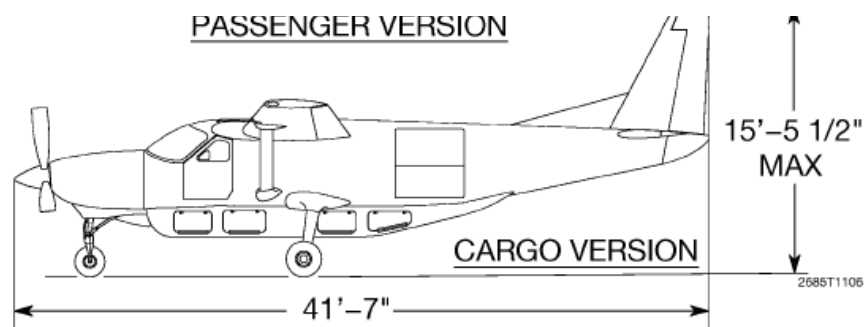
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Figure 1-1 (Sheet 1 of 2)



Airplane Drawing Three Views.