



Reporte de Aceptación de Certificado Tipo



Unidad Administrativa Especial de Aeronáutica Civil
Aeropuerto Internacional El Dorado
Bogotá, D.C., COLOMBIA
Conmutador General (571) 425-1000

Type Certificate Acceptance Report

No. A25SO, Revision 21

PIPER PA-46-350P and PA-46R-350T

GSAC-4.0-8-02
Versión: 01
26/05/2009



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RESUMEN (SUMMARY)

La aceptación de Tipo Colombiana ha sido otorgada para los modelos PA-46-350P y PA-46R-350T de Piper basados en el Certificado Tipo de la FAA número A25SO Rev. 21.

La aplicabilidad es para los modelos Piper PA-46-350P y PA-46R-350T, que ya son elegibles para la emisión 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 models PA-46-350P and PA-46R-350T of the Piper based on the FAA Type Certificate A25SO Rev.21.

Applicability is for Piper PA-46-350P and PA-46R-350T models, 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 A25SO, 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. TC TCCA A25SO 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 esta 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.	<i>(a) 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.	<i>(b) 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.	<i>(c) Determine any additional requirement that must be complied before Colombian Airworthiness Certificate be issued</i>



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

Los modelos Piper PA-46-350P y PA-46R-350T cumplen 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 Piper PA-46-350P and PA-46R-350T models 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 las aeronaves Piper modelos PA-46-350P y PA-46R-350T fue solicitada por el fabricante el 1 de septiembre de 2011 y fue aprobada el 20 de Octubre de 2011, basada en el Certificado Tipo de la FAA No. A25SO, e incluye el motor Lycoming TIO-540-AE2A, aprobados mediante certificados tipo FAA No. TC No. E14EA. Como parte del proceso de aceptación del Certificado Tipo dos Ingenieros de la UAEAC, visitaron la planta de Piper en Vero Beach, Florida, USA.

The application for Colombian type certificate acceptance of the Piper Models PA-46-350P and PA-46R-350T, was received from the manufacturer, Piper, on 1st September 2011, Type Acceptance Certificate was approved on 20 October 2011, based on validation of FAA Type Certificate A25SO, and includes the Lycoming TIO-540-AE2A engine, approved under FAA Type Certificate number E14EA. As part of the TC acceptance validation process two UAEAC certification Engineers visited Piper facilities at Vero Beach, Florida, 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. A25SO revisión 21 de Octubre 13 de 2010 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. A25SO revision 21 dated October 13th, 2010 and the following documents:

(1) Certificados Tipos (*Type certificates*):

- FAA No. A25SO, Revision 21, Dated October 13, 2010.
- Lycoming TIO-540-AE2A engine approved under FAA Type Certificate number E14EA.
- Propeller Hartzell (TC P42GL & P 33EA)



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

(i) *Certification Basis:*

The certification basis of the PA-46-350P is FAR Part 23, including Amendment 23-25 effective March 6, 1980, plus two paragraphs at a later Amendment date as noted on the TCDS. Special Condition for HIRF (Docket # CE215, Special Condition 23-154-SC), January 7, 2005.

PA-46R-350T: For those portions of the airplane that are unchanged from the Model PA-46-350P: FAR Part 23, effective February 1, 1965, as amended by Amendment 23-25, effective March 6, 1980; FAR 25.783(e) as amended by Amendment 25-54, effective October 14, 1980; FAR 25.831(c) and (d) as amended by Amendment 25-41, effective September 1, 1977.

(ii) *Special Condition:*

Special Conditions No. 23-ACE-53, Docket No. 082CE.

(iii) *Airworthiness Limitations:*

PA-46-350P:

The life limit of the fuselage assembly, P/N 89600, is 10,145 hours time-in-service.
The life limit of the wing assembly, P/N 89640, is 15,580 hours time-in-service.315)

PA-46R-350T:

The life limit of the wing assembly, P/N 89640-10, is 15,580 hours time-in-service.
The life limit of the horizontal stabilizer assembly, P/N 83404-2, is 15,580 hours time-in-service.
The life limit of the vertical fin assembly, P/N 83401-9, is 15,580 hours time-in-service.

(3) Aircraft Noise Standard:

The corrected noise level of the Model PA-46-350P is 74.7 dB(A) and 81.3 dB(A) for the model PA-46R-350T at the Maximum Normal Operating Power at 2500 rpm. The noise level stated above has been approved by the Federal Aviation Administration in noise level test flights conducted in accordance with FAR 36, "Noise Standards: Aircraft Type and Airworthiness Certification." The aircraft noise is in compliance with FAR 36 noise standards applicable to this type.

REPORT: VB-2121 ISSUED: OCTOBER 26, 2009

(4) Certification Compliance Listing:

Structure VB-1338 PA-46-350P Structures report.
Mechanical Systems VB-1348 PA-46-350P Systems & Equipment (Mechanical) Substantiation Model PA46-350P A/C.
Powerplant VB-1437 PA-46-350P Powerplant substantiation.
Flight test FT-170 PA-46-350P Flight test report.
Avionics & Electrical VB-1349 PA-46-350P Electrical Substantiation.
Compliance Check lists VB-1309 PA-46-350P
Compliance Check list VB-2091 G1000

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Project Specific Certification Plan PA-46-350P & PA-46R-350T
Piper Report VB-1987 – FAR Part 23 Compliance Checklist for PA-46R-350T

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

Document	FAA	Issue Date	Revision
Pilot's Operating Handbook	REPORT: VB-2121 ISSUED: OCTOBER 26, 2009, REVISED: JUNE 1, 2010	OCTOBER 26, 2009	JUNE 1, 2010
Pilot's Operating Handbook	REPORT: VB-2122 ISSUED: OCTOBER 26, 2009, REVISED: JUNE 1, 2010	OCTOBER 26, 2009	FEB 17, 2011
Airplane Maintenance Manual	PART NUMBER 761-876 September 15, 2009		SEPT 15, 2009
Aircraft Parts Catalogue	PART NUMBER: 761-885 Revised: December 10, 2010		DEC 10, 2010
Aircraft Parts Catalogue	PART NUMBER: 761-878 Revised: JUNE 10, 2009		JUNE 10, 2009

Piper provides CAA updates to all publications through the website ftp.piper.com

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 emisión 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.

Compliance with the requirements for the expedition of a Standard Airworthiness Certificate, to operate in General Aviation, is according with RAC's regulations inside its part IV, Chapters II, Rules. For commercial operators include the requirements of the Colombian regulations RAC's part IV, Chapter V:

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



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	<i>One (fixed) 2 frequencies transmitter (121.5 and 406.0 MHz). TSO – C126</i>
4.2.2.5	LUCES DE AERONAVES <i>AIRCRAFT'S LIGHTS</i>
4.2.2.7	INSTRUMENTOS Y EQUIPOS INOPERATIVOS <i>INOPERATIVE EQUIPMENTS AND INSTRUMENTS</i>
4.2.2.8	USO DE TRANSPONDER ATC <i>ATC TRANSPONDER RIGHT USE</i>
4.2.2.10	SISTEMA DE ALERTA DE ALTITUD – Un sistema <i>ALTITUDE ALERT SYSTEM – One system</i>
4.2.2.14	SEÑALAMIENTO DE LAS ZONAS DE PENETRACION DEL FUSELAJE
9.2.3 literal d) 4	PLACAS: IDIOMA ESPAÑOL O ESPAÑOL E INGLES <i>PLACARDS: SPANISH OR ENGLISH AND SPANISH</i>



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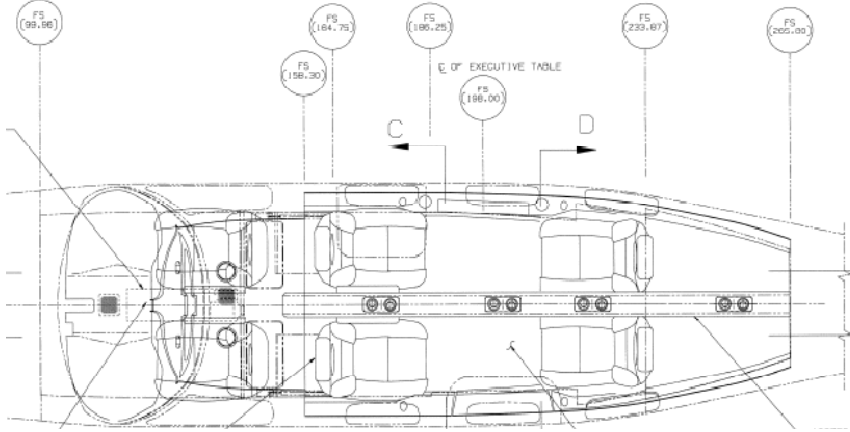
APENDICE 1 - LISTA DE CHEQUEO DE AERONAVES
(APPENDIX 1 – AIRCRAFT CHECK LIST)

CERTIFICADO TIPO (Type Certificate):	FAA A25SO Revision 21
AERONAVE (Aircraft):	Piper Malibu Mirage PA-46-350P and Malibu Matrix PA-46R-350T
FABRICANTE (Manufacturer):	Piper Aircraft, Inc. Matthew Bourvic - International Certification Liaison Tel: 1.772.299.2579 Fax: 1.772.978.6576 2926 Piper Drive, Vero Beach, FL 32960 E-mail: matthew.bourvic@piper.com
PLANTA MOTRIZ (Engine):	Lycoming TIO-540-AE2A, FAA No. TC No. E14EA
OPERADOR NACIONAL (National Operator):	Cesar De Hart
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):	<p>REVISION ACTUAL (Actual Issue): 21 FECHA DE REVISION (Issue Date): October 13, 2010</p> <p>No. of Seats: 6 Crew: 1 pilot Maximum Operating Altitude: 25,000 ft. Fuel Capacity 122 gals. at (+150.31) (2 wing tanks)</p> <ul style="list-style-type: none"> Model PA-46-350P (Malibu Mirage) <p>Maximum Cabin Operating Pressure Differential 5.5 PSID (+0.1, -0.15) Maximum Weight Ramp : 4318 lb. (4358 lb.) Takeoff : 4300 lb. (4340 lb.) Landing : 4100 lb. (4123 lb.) Note: Numbers in parentheses apply to serial numbers 4636196 and up.</p> <ul style="list-style-type: none"> Model PA-46R-350T (Malibu Matrix) <p>Maximum Weight Ramp : 4358 lb. Takeoff : 4340 lb. Landing : 4123 lb.</p> <p>Bog7:\5100-Estandares\2011\Tecnico\02_CONVALIDACIONES DE TC\Piper</p>
2. Lista de Chequeo De Conformidad Código De Aeronavegabilidad (Compliance Check List airworthiness code):	Piper Report VB-2091 – FAR Part 23 Compliance Checklist for PA-46-350P Compliance Check lists VB-1309 PA-46-350P
3. Lista Maestra de	Piper Mirage G1000 PA-46-350P serial number 4636460 sealed drawing list.



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Planos <i>(Master Drawing List or Type Build Standard (TBS)):</i>	Piper Matrix G1000 PA-46R-350T Serial Number 4692134 sealed drawing list. VB-2008, Rev F, PIPER PA46R-350T SEALED DRAWING LIST; VB-2092 SEALED DRAWING LISTG1000 MIRAGE; VB-2093 Sealed drawing list PA-46R-350T G1000.
4. NIVELES EQUIVALENTES DE SEGURIDAD <i>(Elos, Special Conditions Exceptions):</i>	23-ACE-53, Docket No. 082CE.
5. Plano en tres vistas del conjunto (impreso o copia) <i>(views assembly drawing (Printed or blueprint)):</i>	Ver APENDICE 2 - ADJUNTOS See APPENDIX 2 - ATTACHMENTS
6. Planos de Configuración Interior <i>(Interior configuration Drawings (LOPA):</i>	 <p align="center">Interiors Component Installation 107400.</p>
7. Manual De Operación De La Aeronave <i>(Aircraft Operacional Manuals):</i>	PA-46-350P, REPORT: VB-2121 FAA APPROVED, DATE OF APPROVAL October 26, 2009 PA-46R-350T, REPORT: VB-2122 FAA APPROVED, DATE OF APPROVAL October 26, 2009
8. Manual de Reparaciones Estructurales, Manual de Cableado <i>(Structural Repair Manual, Wiring Manual):</i>	\\Bog7\secretarias\5100-Estandares\2011\TECNICO\02_CONVALIDACIONES DE TC\Piper Mirage\07_MANUALES Y MMEL
9. MANUAL DE MANTENIMIENTO <i>(Maintenance Manual):</i>	PART NUMBER 761-876 September 15, 2009
10. CATALOGO ILUSTRADO DE PARTES <i>(Illustrated Parts Catalogue):</i>	PART NUMBER: 761-885 Revised: December 10, 2010; PART NUMBER: 761-878 Revised: JUNE 10, 2009.
11. BOLETINES DE SERVICIO, <i>(Service Bulletins):</i>	Service Bulletins Avantext Piper 19 PA-46-310P, 350P, -46R-350T Mailbu/Mirage/Matrix SKU AV-PP19 July 2011 to October 31
12. DIRECTIVAS DE AERONAVEGABILIDAD <i>(Airworthiness Directives):</i>	PAGINA WEB FAA Bog7:\5100-Estandares\2011\Tecnico\02_CONVALIDACIONES DE TC\Piper Mirage\08_AD
13. CERTIFICACION DE RUIDO (Noise Compliance):	The corrected noise level of the Model PA-46-350P is 74.7 dB (A) and 81.3 dB (A) for the model PA-46R-350T at the Maximum Normal Operating Power at 2500 rpm. The noise level stated above has been approved by the Federal Aviation Administration in noise level



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	test flights conducted in accordance with FAR 36, "Noise Standards: Aircraft Type and Airworthiness Certification." The aircraft noise is in compliance with FAR 36 noise standards applicable to this type.
14. OTROS (Others RVSM):	Not applicable.
15. BASES DE CERTIFICACIÓN (Certification Bases) :	<p>The certification basis of the PA-46-310P is FAR Part 23, including Amendment 23-25 effective March 6, 1980, plus two paragraphs at a later Amendment date as noted on the TCDS. One special condition was imposed. There was one Special Condition. The individual paragraph Amendment date was further updated for installation specific items for aircraft with the AvidyneEntegra or the Garmin G1000 systems fitted, plus the special condition for HIRF.</p> <p>For the PA-46R-350T Matrix aircraft equipped with Hartzell propeller HC-I3Y1R-1N/N7605+2 or HC- I3Y1R-1N/N7605K+2 and Governor model S-1-30 (See Piper Report VB-2132) the additional certification basis for installation specific items only is: 23.907 as amended by Amendment 23-59, effective 24 October 2008. Eligible Serial Numbers: 4692123 & up.</p> <p>For PA-46R-350T aircraft equipped with Piper factory installed Garmin G1000 system and GFC 700 AFCS (See Piper Drawing 106900), the additional certification basis for installation specific items only as amended by Amendment 23-59 dated December 23, 2008</p>



APENDICE 2 - ADJUNTOS (APPENDIX 2 - ATTACHMENTS)

Los siguientes documentos son adjuntos de este informe:
The following documents are attached to this report:

- Copia de la Hoja de Datos del Certificado Tipo de FAA, Numero A25SO.
Copy of FAA Type Certificate Data Sheet, Number A25SO.
- Copia de la Hoja de Datos del Certificado Tipo para el motor de FAA Numero E14EA (Lycoming Engine).
Other: Copy of FAA Engine Type Certificate, Number E14EA (Lycoming Engine).
- Otros: Airplane Drawing Three Views.

Firmas (Signatures)

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

.....
Andrés González Ordóñez
Jefe de Grupo Técnico (E) – UAEAC
(UAEAC- Technical Group Chief)

Dated: October 26th, 2011



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The United States Of America
Department of Transportation
Federal Aviation Administration

AIRPLANE

Type Certificate

Number A25SG

This certificate issued to Piper Aircraft, Inc
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.

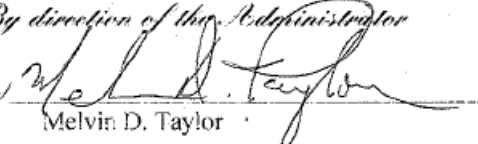
Airplane models: PA-46-310P, PA-46-350P, PA-46-500TP, PA-46R-350T

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: August 22, 1979

Date of issuance: September 27, 1983; Model PA-46-350P approved August 30, 1988; Model PA-46-500TP approved September 27, 2000; Model PA-46R-350T approved October 26, 2007

Reissued: July 14, 1995; August 7, 2006 (to Piper Aircraft, Inc)

By direction of the Administrator
(Signature) 
Melvin D. Taylor

(Title) Manager, Atlanta Aircraft Certification Office

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.

FAA Form 8110-9(2-82) Computer generated 5/95

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The United States of America
Department of Transportation
Federal Aviation Administration
ENGINE

Type Certificate

Number **E14EA**

This certificate, issued to Lycoming Engines, An Operating Division of AVCO Corporation certifies that the type design for the following product with the operating limitations and conditions therefore as specified in the Federal Aviation Regulations and the Type Certificate Data Sheet, meets the airworthiness requirements of Part 13/33 of the Federal Aviation Regulations.

Engine Model TIO-540-A1A

(See attached sheets for additional models)

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.

COPY

Date of application: May 26, 1962

Date reissued: December 17, 2003 to Lycoming Engines,

Date of issuance: December 6, 1965

An Operating Division of Avco Corporation

Model TIO-540-AK1A approved February 2, 2001

By direction of the Administrator.
 (Signature) *Vito A. Pulera*

(Title) for Vito A. Pulera
Manager, New York Aircraft Certification Office

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

A25SO
Revision 21
Piper
PA-46-310P
PA-46-350P
PA-46-500TP
PA-46R-350T
October 13, 2010

TYPE CERTIFICATE DATA SHEET NO. A25SO

This data sheet, which is part of Type Certificate No. A25SO, prescribes conditions and limitations under which the product for which type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: Piper Aircraft, Inc.
 2926 Piper Drive
 Vero Beach, Florida 32960

Type Certificate Holder Record The New Piper Aircraft, Inc transferred TC A25SO to Piper Aircraft, Inc on August 7, 2006.

I. - Model PA-46-310P (Malibu), 6 PCLM (Normal Category), Approved September 27, 1983.

Engine Teledyne Continental, TC No. E8CE, Model TSI0-520-BE

Fuel 100/100LL minimum grade aviation gasoline

Engine Limits For all operations:
 2600 RPM and 38" Hg MAP (310 HP), sea level to 24,000 ft.
 2600 RPM and 35" Hg MAP above 24,000 ft.

 2400 RPM and 31" Hg MAP maximum when leaned to 50° F lean of peak, any altitude.

Propeller and Propeller Limits Hartzell, TC No. P-920, Hub BHC-C2YF-1BF, Blade F8052 ()
 Pitch: High 38.0° ± 1°, Low 16.0° ± 0.2° at 30" station.
 Diameter: Not over 80", not under 78".
 Spinner: Hartzell D-4810 or D-4810P.
 Governor: Hartzell Model E-5-2.

Airspeed Limits

V _{NE} (Never Exceed)	203 KIAS
V _{NO} (Maximum Structural Cruise)	173 KIAS
V _A (Maneuvering 4100 lb.)	135 KIAS
V _A (Maneuvering 2450 lb.)	103 KIAS
V _{FE} (Maximum Flaps Extended)	120 KIAS
V _{LO} (Maximum Landing Gear Operation)	
Extension	170 KIAS
Retraction	130 KIAS
V _{LE} (Maximum Landing Gear Extended)	200 KIAS

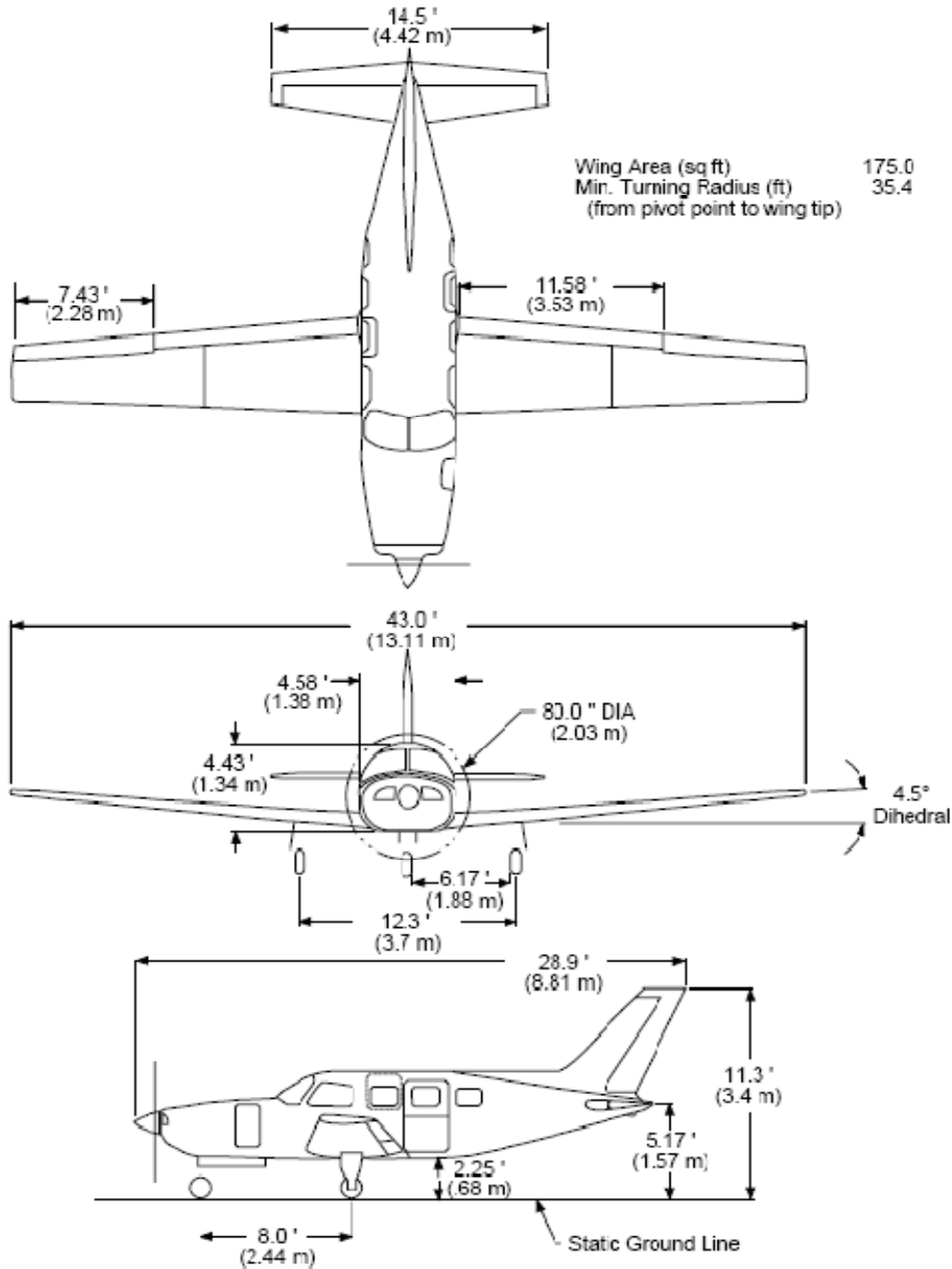
<u>C.G. Range (Gear Extended)</u>	WT.	FWD. LIMIT	AFT LIMIT
	(LB.)	IN. AFT OF DATUM	IN. AFT OF DATUM
	4100	143.3 in.	147.1 in.
	3680	136.1 in.	147.1 in.
	2450 or less	130.7 in.	147.1 in.

Empty Weight C.G. Range None

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Airplane Drawing Three Views.