



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST00796DE

This certificate, issued to:

Teledyne Battery Products.
840 West Brockton Avenue
Redlands, California 92374



100022289

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part * of the Federal Aviation Regulations.

Original Product - Type Certificate Number:

Make: * See attached Federal Aviation Administration (FAA)
Model: Approved Model List (AML) ST00796DE for approved aircraft models and applicable airworthiness regulations.

Description of the Type Design Change:

Installation of Teledyne Battery Products P/N 7638-44T Lead-Acid Battery in accordance with Document No. TD34-4-01, Master Drawing List, Revision IR dated 3/4/2016 or later FAA approved revision. Instructions for Continued Airworthiness (ICA) are required to be made available at installation, refer to AML ST00796DE for model specific ICA document.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

(See Continuation Sheet on Page 3 for Certification Basis)

This certificate and the supporting data which is the bases for approval 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: November 30, 2015

Date Reissued: April, 15, 2016

Date of Issuance: April 3, 2016

Date Amended:

By direction of the Administrator

Signature

Todd Dixon
A. Johnson
Er. T. Dixon

Title

Todd Dixon
Northwest Mountain Regional Manager
Denver Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120)



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number: ST00796DE

Date of Issuance: April 3, 2016

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this change is as follows:

- a. The certification basis for parts **not changed** or **not affected** by this change is shown on the attached AML.
- b. The certification basis for parts **changed** or **affected** by the change since the reference date of application, November 30, 2015, is based upon 14 CFR Part 25, Amendment 25-1 through 25-98.
14 CFR Sections: 25.301 Amdt. 25-23; 25.303 Amdt. 25-23; 25.305(a),(b) Amdt. 25-86; 25.307(a) Amdt. 25-72; 25.337 Amdt. 25-23; 25.341 Amdt. 25-86; 25.561(c) Amdt. 25-91; 25.601 Amdt. - ; 25.603 Amdt. 25-46; 25.605(a) Amdt. 25-46; 25.609 Amdt. - ; 25.611 Amdt. 25-23; 25.613(a),(b),(c),(d) Amdt. 25-72; 25.619 Amdt. 25-23; 25.625(a),(b),(c) Amdt. 25-72; 25.1301 Amdt. - ; 25.1309(a),(b),(c),(d)(e1,2,3i,4),(f),(g) Amdt. 25-41; 25.1351(a),(d) Amdt. 25-72; 25.1353(a),(c)(1),(c)(2),(c)(3),(c)(4) Amdt. 25-42; 25.1529 Amdt. 25-54

-----END-----

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

FAA Approved Model List (AML) ST00796DE
Installation of Teledyne Battery Products 7638-44T battery in
Cessna aircraft.



Issued Date: APR - 3 2016

FAA Approved Model List (AML) ST00796DE
Installation of Teledyne Battery Products 7638-44T battery in
Cessna aircraft.

AML Revision Log

Date	Description
4/3/2016	Initial Release

FAA Approved Model List (AML) ST00796DE

Installation of Teledyne Battery Products 7638-44T battery in
Cessna aircraft.

Item	Make	Model / Series	Cert Basis / Amdt	TCDS No.	Ins0wg ¹	FMS	ICA ²	Model Specific Notes	Initial Approve Date	Amender Date
1	Cessna	500	Part 25, Amdt 25-1 through 25-17	A22CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
2	Cessna	501	Part 23, Amdt 23-1 through 23-16	A27CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
3	Cessna	550	Part 25, Amdt 25-1 through 25-17	A22CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
4	Cessna	551	Part 23, Amdt 23-1 through 23-16	A27CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
5	Cessna	5550	Part 25, Amdt 25-1 through 25-17	A22CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
6	Cessna	560	Part 25, Amdt 25-1 through 25-17	A22CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
7	Cessna	560XL	Part 25, Amdt 25-1 through 25-82	A22CE	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
8	Cessna	650	Part 25, Amdt 25-1 through 25-39	A9NM	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
9	Cessna	680	Part 25, Amdt 25-1 through 25-98	T00012WI	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-
10	Cessna	750	Part 25, Amdt 25-1 through 25-74	T00007WI	3B7 Rev - (1/5/2015)	None	TD34-8-01 Rev. A (12/7/2015)	None	4/3/2016	-

¹ Or later FAA approved revision.

² Or later FAA accepted revision.



CERT WORKS

Master Data List (MDL)

*Installation of Teledyne Battery Products 7638-44T in Cessna Aircraft Models:
500, 501, 550, 5550, 551, 560, 560XL, 650, 680, 750*

Document Number:	TD34-4-01
Revision :	IR
Date:	3/4/2016

This data is hereby approved by the
Cert Works, LLC ODA, ODA(AIR)-833887-NM

Kreg R. Voorhies
ODA Lead administrator
Cert Works LLC, ODA

Date: APR 3 2016

**TD34-4-01: Master Drawing List, Teledyne Battery 7638-44T – Cessna Aircraft
IR; 3/4/2016**

I. Revisions

Revision	Revision Date	Description
IR	3/4/2016	Initial Release
Prepared By:		Reviewed By:
K. Voorhies		

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Section 1: Introduction

The Master Data List provides definition of the documentation to support the Supplemental Type Certificate (STC) installation of the Teledyne Battery Products 7638-44T in the following aircraft:

Cessna:

- | | |
|--------|---------|
| • 500 | • 560 |
| • 501 | • 560XL |
| • 550 | • 650 |
| • S550 | • 680 |
| • 551 | • 750 |

This installation installs the Teledyne Battery Products 7638-44T battery in replacement of the original aircraft main battery.



Section 2: Limitations

Installation is replacement of the original equipment battery and requires the original equipment connections and tie downs.

No other installation limitations.

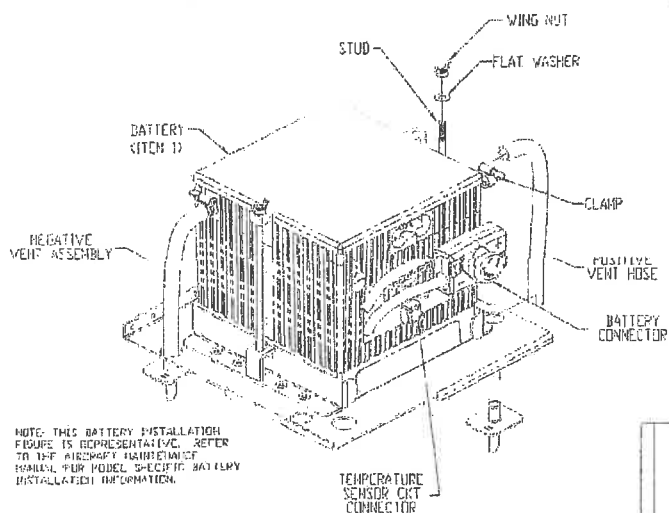
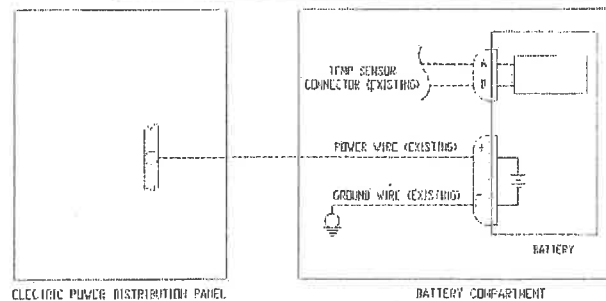
***TD34-4-01: Master Drawing List, Teledyne Battery 7638-44T – Cessna Aircraft
IR; 3/4/2010***

Section 3: Data

Document No.	Title	Revision
3437	Battery Installation, Cessna Aircraft (Part 25)	"_" 10/5/15

INSTALLATION NOTES

1. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
2. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
3. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
4. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
5. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
6. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
7. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
8. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
9. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.
10. THE USER SHOULD BE ADVISED THAT THE SYSTEM IS NOT DESIGNED TO BE USED IN A HAZARDOUS OR EXPLOSIVE ENVIRONMENT.

[illegible]

NOTE: THIS BATTERY INSTALLATION FIGURE IS REPRESENTATIVE. REFER TO THE AIRCRAFT MAINTENANCE MANUAL FOR MODEL SPECIFIC BATTERY INSTALLATION INFORMATION.

PARTS LIST				
ITEM NO	QTY	DESCRIPTION	PART NUMBER	REMARKS/REVISION
1	1	24 LT VOLT REGULATOR-CHARGING BATTERY	7620-640	TELLER, CLYDE F. 1964

[illegible]

CERT WORKS, LLC

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Document No: TD34-8-01
Revision A dated 12/7/2015

For

TSO-C173/C173a Authorized
Teledyne Battery Products (GILL®) 7638-44T
LT Valve-Regulated Lead-Acid Aircraft Battery

STC ST00796DE: Cessna Models 500, 501, 550, S550, 551, 560,
560XL, 650, 680, 750

STC SA00797DE: Cessna Models 525, 525A, 525B, 525C

Aircraft Serial Number: 560-5344
Aircraft Reg. Number: N1NA

Instructions for Continued Airworthiness
Teledyne Battery Products 7638-44T Cessna Battery Installation

REVISIONS

Rev. No.	Description	Approved	Date
NC	Initial Release	KRV	10/12/2015
A	Revised to correct STC – Model references.	KRV	12/7/2015

Note: For any revision, all pages will be revised. Changes to the current revision will be indicated within the document by change bars.

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Instructions for Continued Airworthiness Teledyne Battery Products 7638-44T Cessna Battery Installation

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1. AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA-approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations, unless an alternative program has been FAA approved.

1.1 Airworthiness Limitations Information

No airworthiness limitations are associated with the *Teledyne Battery Products 7638-44T Installation* type design change (STC's ST00796DE or SA00797DE).

DATE	APPROVED
APR -3 2016	 Kreg. R. Voorhies, ODA administrator Cert Works ODA(AIR)-833887-NM

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Instructions for Continued Airworthiness Teledyne Battery Products 7638-44T Cessna Battery Installation

2 INTRODUCTION

2.1 Scope

This manual provides Maintenance Procedures for the installation of the Teledyne Battery Products (GILL) 7638-44T battery in Cessna "Citation" aircraft. This ICA covers the following Supplemental Type Certificate Installations:

STC ST00796DE: Cessna Aircraft Models 500, 501, 550, S550, 551, 560, 560XL,
650, 680, 750

STC SA00797DE: Cessna Aircraft Models 525, 525A, 525B, 525C

For battery Instructions for Continued Airworthiness and Component Maintenance refer to Teledyne Battery Products Document TD14-8-01, *Instructions for Continued Airworthiness and Component Maintenance Manual for TSO-C173/C173a Authorized Teledyne Battery Products (GILL) 7000 Series LT Valve-Regulated Lead-Acid Aircraft Batteries*, Revision C or later accepted revision.

2.2 Service Difficulties

Report service difficulties with the *Teledyne Battery Products 7638-44T Installation* modification to:

Cert Works

965 S. 1st Street, Unit 6F-144
Bennett, Colorado 80102
info@certworks.com
303.578.0493

2.3 Language

This manual is written to the Simplified English (SE) specification. This International Aerospace Maintenance Language Specification is important to maintenance personnel whose first language is not English.

2.4 Unit of Measure

Unless otherwise noted, measurements throughout this manual are shown in American Standard unit.

Example: 12.55 in

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2.5 Torque Values

No unique torque values apply to this modification.

2.6 Precautions

The following text is used to highlight advisory information to the user of this manual:

WARNING

Failure to follow instructions given in a WARNING may result in personal injury or death.

CAUTION

Failure to follow instructions given in a CAUTION may result in damage.

NOTE

A NOTE includes supplemental data about the procedure, practice, condition, etc. that is strongly recommended to follow.

2.7 Abbreviations

ACO	Aircraft Certification Office
FAA	Federal Aviation Administration
ICA	Instructions for Continued Airworthiness
STC	Supplemental Type Certificate

2.8 Revision to ICA

When a revision to the ICA is necessary, an updated ICA will be submitted to the Aircraft Certification Office (ACO) for review and acceptance. The date of the acceptance will be annotated on the Revision Page of the ICA.

It is the responsibility of the operator to ensure they have the latest revision of this ICA. For inquiries regarding the content and currency of this ICA, contact:

Cert Works
965 S. 1st Street, Unit 6F-144
Bennett, Colorado 80102
info@certworks.com
303.578.0493

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Instructions for Continued Airworthiness Teledyne Battery Products 7638-44T Cessna Battery Installation

3 System Description

3.1 General

This STC provides for the installation of a Teledyne Battery Products 7638-44T, Lead-Acid battery that replaces the original battery.

3.2 Parts List

See parts list on the applicable drawing:

STC	Models	Drawing No.	Revision ¹
ST00796DE	500, 501, 550, S550, 551, 560, 560XL, 650, 680, 750	3437	-
SA00797DE	525, 525A, 525B, 525C	3436	-

There are no Commercial Parts (14 CFR Part 21 § 21.9(a)(4)) associated with this modification.

4 Inspection Requirements

4.1 Description

This Section contains the inspection requirements for the *Teledyne Battery Products 7638-44T Installation* modification on Cessna "Citation" aircraft. The inspections must be accomplished by qualified personnel to ascertain the airworthiness of the aircraft, and any discrepancy must be eliminated prior to further flight. No component overhaul is required for this STC.

4.2 Inspection Program

The inspection program consists of an annual inspection for condition of the placards and pouches for the *Teledyne Battery Products 7638-44T Installation* modification, requiring only a single logbook entry.

4.3 Daily Inspection Program

No daily inspections required.

4.4 Recurrent Inspection Program

Refer to Teledyne Battery Products Document TD14-8-01, *Instructions for Continued Airworthiness and Component Maintenance Manual for TSO-C173/C173a Authorized Teledyne*

¹ Or Later FAA Approved Revision.

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Instructions for Continued Airworthiness Teledyne Battery Products 7638-44T Cessna Battery Installation

*Battery Products (GILL) 7000 Series LT Valve-Regulated Lead-Acid Aircraft Batteries,
Revision C or later accepted revision.*

4.5 Conditional Inspection Checks

A conditional inspection/check does not occur at a specified time. It is caused by known or suspected unusual events, malfunctions, or defects.

In the event of a hard landing, as defined by the aircraft ICA, perform the Annual inspection as defined in this document.

4.6 Special Inspection Requirements

There are no special inspection requirements.

5 Weight and Balance

5.1 Weight and Balance information

The weight of the Teledyne Battery Products 7638-44T is 86.0 lbs (+/- 3%). Location is defined by the basic aircraft maintenance manual.

CAUTION

Verify Weight and Balance Information is updated when the battery is installed. Weight the new and old battery for use in updating the aircraft specific weight and balance information.

6 Placards and Markings

6.1 Placards

None

6.2 Markings

None

7 Servicing

Refer to Teledyne Battery Products Document TD14-8-01, *Instructions for Continued Airworthiness and Component Maintenance Manual for TSO-C173/C173a Authorized Teledyne*

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Instructions for Continued Airworthiness Teledyne Battery Products 7638-44T Cessna Battery Installation

Battery Products (GILL) 7000 Series LT Valve-Regulated Lead -Acid Aircraft Batteries, Revision C or later accepted revision.

8 System Maintenance

Refer to Teledyne Battery Products Document TD14-8-01, *Instructions for Continued Airworthiness and Component Maintenance Manual for TSO-C173/C173a Authorized Teledyne Battery Products (GILL) 7000 Series LT Valve-Regulated Lead -Acid Aircraft Batteries, Revision C or later accepted revision.*

8.1 Control and Operation

Not applicable, the 7638-44T battery operates the same as the original battery, refer to the basic aircraft manuals for aircraft level battery control and operation.

8.2 Installation Instructions

Installation of the *Teledyne Battery Products 7638-44T Installation* modification is provided by the following drawings:

STC	Models	Drawing No.	Revision ²
ST00796DE	500, 501, 550, S550, 551, 560, 560XL, 650, 680, 750	3437	-
SA00797DE	525, 525A, 525B, 525C	3436	-

8.3 Removal Instructions

The permanent removal of the Teledyne Battery Products 7638-44T is accomplished by removal of the battery. The battery installation does not require any other physical modifications and can be accomplished removing the battery and updating aircraft records.

8.4 Repairs

Please report any failures or needs for repairs to Cert Works. No repairs are recommended for this modification.

8.5 Replacement of Parts

The only replaceable part of this modification is the battery. Refer to the installation drawings for part number information.

² Or Later FAA Approved Revision.

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Instructions for Continued Airworthiness Teledyne Battery Products 7638-44T Cessna Battery Installation

8.6 Troubleshooting

Refer to Teledyne Battery Products Document TD14-8-01, *Instructions for Continued Airworthiness and Component Maintenance Manual for TSO-C173/C173a Authorized Teledyne Battery Products (GILL) 7000 Series LT Valve-Regulated Lead-Acid Aircraft Batteries*, Revision C or later accepted revision.

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