

Weight / Balance & Equipment List Revision Page # : 1

Alta Avionics LLC.

2245 S 1640 W

Woods Cross, UT 84087 Tel: 801-550-5676

A/C Tail #: N411R
 Register Name: M R INVESTMENTS LLC
 Name 2:
 Address 1: 3532 N LAYTON RIDGE DR
 Address 2:
 City, State, PC: LAYTON, UTAH 84040

A/C Make: PIPER
 A/C Model: PA-46-500TP
 A/C Serial #: 4687241
 WO Ref #:
 WB Date: Jul-17-2023
 WB ID #: 3

Previous data taken from document dated Aug-20-2019

This Aircraft has been re-weighed using the following computations.

Reaction Points	Scale Reading	Tare	Net Weight	Arm / CG	Moment
Right Main	1988.00	0.00	1988.00		
Left Main	1913.00	0.00	1913.00		
Sub Total Main			3901.00	157.00	612457.00
Nose / Tail	750.00	0.00	750.00	60.50	45375.00
			Total as Weighed	4651.00	657832.00
			Engine Oil		
			Un-useable Fuel		
			Usable Fuel	-1140.00	-169675.00
			Other 2		
			Other 3		
			Basic Empty Weight	3511.00	488257.00

AIRCRAFT GROSS WEIGHT = 5134.00 WEIGHED USEFUL LOAD (computed) = 1623.00

Model	Description of changes	(LB / IN) Weight	CG/Arm	Moment
	New data from weighing ->>	3511.00	139.06	488257.00

NO ITEMS REMOVED

INSTALLED ITEMS -----

GWX 68 WEATHER RADAR UNIT
 RG 41/53 CONCORDE BATTERY
 WING RADAR POD WING RADAR POD

INSTALLED SUB TOTAL 3 Items @

NEW DATA >> NEW USEFUL LOAD = 1623.00 3511.00 139.06 488257.00

C.G. RANGE @ 5134 LBS. FWD LIMIT 141.13", AFT LIMIT 147.1"

MAX RAMP WEIGHT 5134 LBS, MAX T.O. WEIGHT 5092 LBS.

THE FUEL WAS TOPPED OFF 173 GAL.

170 GAL OF USABLE FUEL WAS SUBTRACTED FROM FUSELAGE STATION 148.75.

ENGINE OIL WAS FULL

 07-17-23
 Authorized Individual: AP4305760 PARKER DYRENG

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A/C Make: PIPER
A/C Model: PA-46-500TP
A/C Serial #: 4697241
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Right Main	1988.00	0.00	1988.00		
Left Main	1913.00	0.00	1913.00		
Sub Total Main			3901.00	157.00	612457.00
Nose / Tail	750.00	0.00	750.00	60.50	45375.00
			Total as Weighed	141.44	657832.00
			Engine Oil		
			Un-useable Fuel		
			Usable Fuel	148.75	-169575.00
			Other 2		
			Other 3		
			Basic Empty Weight	139.06	488257.00

AIRCRAFT GROSS WEIGHT = 5134.00 WEIGHED USEFUL LOAD (computed) = 1623.00

Model #	Description of changes	(LB / IN) Weight	CG/Arm	Moment
	Empty Weight (from weighing) ->>>	3511.00	139.06	488257.00

NO ITEMS REMOVED

INSTALLED ITEMS -----

GWX 58 WEATHER RADAR UNIT
RG 41/53 CONCORDE BATTERY
WING RADAR POD WING RADAR POD

INSTALLED SUB TOTAL 3 Items @

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C.G. RANGE @ 5134 LBS. FWD LIMIT 141.13", AFT LIMIT 147.1"

MAX RAMP WEIGHT 5134 LBS, MAX T.O. WEIGHT 5092 LBS.

THE FUEL WAS TOPPED OFF TO 173 GAL. ENGINE OIL WAS FULL.

170 GAL OF USABLE FUEL (1140 LBS) WAS SUBTRACTED FROM FUSELAGE STATION 148.75.


Authorized Individual: AP4305760 PARKER DYRENG

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Sub Total Main			3901.00	157.00	612457.00
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Total as Weighed			4651.00	141.44	657832.00
Engine Oil					
Un-useable Fuel					
Usable Fuel			-1140.00	148.75	-169575.00
Other 2					
Other 3					
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INSTALLED ITEMS -----

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 RG 41/53 CONCORDE BATTERY
 WING RADAR POD WING RADAR POD

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THE FUEL WAS TOPPED OFF 173 GAL.

170 GAL OF USABLE FUEL WAS SUBTRACTED FROM FUSELAGE STATION 148.75.

ENGINE OIL WAS FULL

[Signature]

07-17-23

Authorized Individual : AP4305760 PARKER DYRENG

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MAX RAMP WEIGHT 5134 LBS, MAX T.O. WEIGHT 5092 LBS.

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170 GAL OF USABLE FUEL (1140 LBS) WAS SUBTRACTED FROM FUSELAGE STATION 148.75.


 Authorized Individual : AP4305760 PARKER DYRENG

07-17-23

1. Approving Civil Aviation Authority/Country:
 FAA / UNITED STATES

3. Form Tracking Number:
 27601-23

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address:
 Concorde Battery Corporation
 2009 San Bernardino Rd.
 West Covina, CA 91790

PAH No.: PQ1174NM & PT1174NM

5. Work Order/Contract/Invoice Number:
 43157-02

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Battery	86-43/53	2	41296260, 41296261	Rev

12. Remarks: This PMA & TSO part is not a critical component. (Cross check eligibility at www.concordebattery.com)

13a. Certifies the items identified above were manufactured in conformity to:
 Approved design data and are in a condition for safe operation.
 Non-approved design data specified in Block 12.

14a. 14 CFR 43.9 Return to Service Other regulation specified in Block 12
 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature: 	13c. Approval/Authorization No.: 771298226	14c. Approval/Certificate No.:
13d. Name (Typed or Printed): Anthony Tapia	13e. Date (dd/mm/yyyy): 14 APR 2023	14d. Date (dd/mm/yyyy):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



Date: April 18, 2023

Ref: STC SA01050DE - Letter of Authorization (LOA) Serial No. SA01050DEDW-012

(Reference Original Distributor PO Number 1081345 (if applicable))

Dear Customer,

Thank you for your purchase and for choosing to convert your aircraft to a Concorde battery.

It is the responsibility of the Supplemental Type Certificate (STC) holder to provide written permission for all alterations at 14 CFR § 21.120. As such, the FAA requires you to seek this permission prior to installing this STC as well as its relevant parts and information including all drawings, data and specifications.

The attached information sheet must be completed and returned to Concorde for prompt receipt of the Letter of Authorization to use this STC. Please email your request to orderentry@concordebattery.com and within one business day you will receive your permission to use the STC by return email.

Please note Concorde is closed annually the week of July 4th, two weeks beginning the week of Christmas day and most US Federal holidays. Email is monitored during the July 4th and Christmas closures, but there may be a slight delay in response. Email is not monitored on weekends or most US Federal Holidays. We apologize for any inconvenience.

If you do not receive your LOA or a response of any kind in the planned time frames, please contact our Customer Service Dept. An email or network issue may have occurred and we may not have received your request. You may call the number below or you may also 'contact us' via our website or email customer-service@concordebattery.com.

Only one LOA will be issued per installation so be sure and include the information sheet attached so the serial number may be recorded accordingly. Duplicate requests for the same LOA serial number will not be honored.

Please feel free to call or email with any questions.

Thank you again for choosing Concorde Battery!

Sincerely,

Shelley Johnson
Director of Customer Service
Concorde Battery Corporation
(626) 813-1234 Ext. 239
sjohnson@concordebattery.com

Installation Instructions

Make: Piper Aircraft Inc. Models: PA-46-500TP (M500) & PA-46-600TP (M600)

This STC provides for the installation of a Concorde RG-41/53 in place of the original equipment Lead Acid Main Battery. The Concorde RG-41/53 is a direct fit replacement for the OEM battery being replaced. The original battery eligible for replacement is listed in the following table.

Battery Eligible for Replacement

Original Battery	Replacement Concorde Battery
Piper Part Number 601-910	RG-41/53

1. Removal / Installation of Main Battery
 - a. Remove existing main battery from the aircraft in accordance with (IAW) the Aircraft Maintenance Manual Section 24-30-00 sub section 15.C. Observe all cautions in the Maintenance manual and the following:

CAUTION: MAKE SURE THAT YOU COVER THE BATTERY TERMINALS WITH ELECTRICAL TAPE OR A TERMINAL COVER TO PREVENT ACCIDENTAL SHORTING OF THE BATTERY TERMINALS.
 - b. Install the Concorde replacement battery IAW Section 24-30-00 sub section 15.E. Observe all cautions in the Maintenance manual.
 - c. Update the aircraft weight and balance by subtracting the weight of the existing battery and adding the weight of the new Concorde replacement battery.
 - d. Insert the Concorde FAA approved Instructions for Continued Airworthiness, Drawing 5-0693, in the appropriate location in the Aircraft Maintenance Manual.
 - e. Complete the appropriate form(s) to return the aircraft to service.
2. For maintenance requirements of the battery refer to the Concorde Component Maintenance Manuals 5-0171. The latest approved CMM is available on the internet at www.concordebattery.com

Revisions: (Changes from the previous revision are denoted by a vertical line in the left margin)

Rev.	Description	Date	Approved
CONCORDE BATTERY CORPORATION, 2009 San Bernardino Road, West Covina, CA 91790			
TITLE: Installation Instructions, Piper M500 & M600 Battery Upgrade		DWG NO. 5-0692	REV. NC
CAGE CODE: 63017	DRAWN: PH 08/09/19	CHECKED JBT 06/11/20	APPROVED JBT 06/11/20
		ISSUED DH 06/11/20	SHEET: 1 OF 1