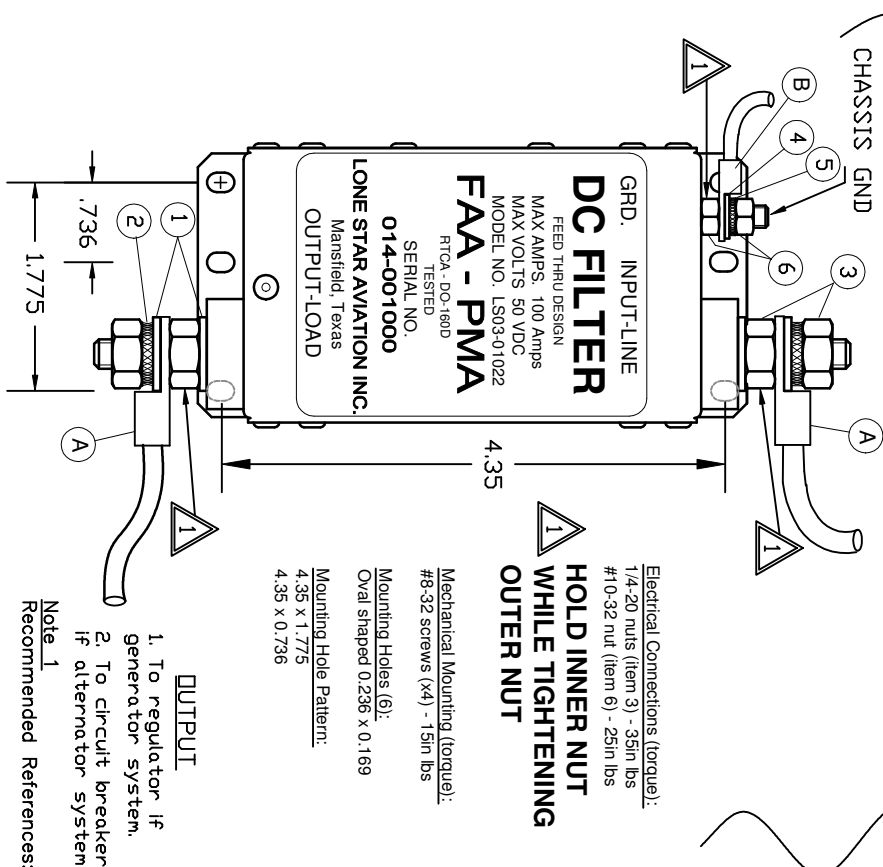


TYPICAL FILTER MODIFICATION INSTALLATION

Lone Star Aviation, Corp.
604 S. Wisteria Street
Mansfield, Texas 76063
682-518-8882
682-518-8831 fax

INPUT
Input from alternator
or generator system.



HOLD INNER NUT WHILE TIGHTENING OUTER NUT

Electrical Connections (torque):
1/4-20 nuts (item 3) - 35in lbs
#10-32 nut (item 6) - 25in lbs

Mechanical Mounting (torque):
#8-32 screws (x4) - 15in lbs

Mounting Holes (6):
Oval shaped 0.236 x 0.169

Mounting Hole Pattern:
4.35 x 1.775
4.35 x 0.736

- OUTPUT**
- To regulator if generator system.
 - To circuit breaker if alternator system.

Note 1
Recommended References:

FAA AC 43.13-1B
Acceptable Methods, Techniques and Practices-Aircraft Inspection and Repair, Chapter 11

FAA AC 43.13-2B
Acceptable Methods, Techniques and Practices-Aircraft Alterations

Damaged Equipment Procedure:
If equipment fails to function or meet original specification call the factory for a replacement.

REV	ECD #/ZONE	DESCRIPTION OF CHANGE(s)	DATE	CHANGED
REV		INSTALLATION, Initial	9-28-07	RLS
Rev-A		Added Mod, Replace dwg	2-08-08	JRM
Rev-B		Deleted Replacement dwg	5-08-08	JRM
Rev-C		Modified Specifications, Added Hardware	12-18-16	DPG

Operating Instructions:
There are no operating instructions for this filter.

Continued Air-Worthiness:

- Equipment Inspection: Annual**
- Check filter mounting hardware, re-torque if needed
 - Check filter electrical connection, re-torque if needed
 - Check input & output cables routing, re-secure if needed

Electrical Installation:

- Install FAA-PMA 100 Amp Filter between alternator (generator) and regulator (circuit breaker)
- Install recommended ring terminals, from table below, based on wire size
- Crimp terminals w/ appropriate crimping tool
- Attach cables to filter terminals
- Torque to spec, while holding inner nut
- Secure cables away from any hazards

Product Specifications:

Alternator or Generator Sys: 13.8V - 27.5V DC
Current Rating: 100 Amps
Physical Dimensions: 2.40W x 3.95D x 1.40H
Weight: 12.3 oz. - 350g
Type Approval: FAA-PMA
Environmental Testing: DO-160E

Product Limitations:

Maximum Voltage: 50V DC
Maximum Current: 100 Amps
Maximum High Temperature: +85° C
Maximum Low Temperature: -55° C
Maximum Altitude: 25K feet

Mechanical Mounting:

- Review and mount filter to an optimum vertical or horizontal space on fire wall.
- Ensure location allows for clearance for routing electrical cables
- Mark & drill .166in hole for #8 screw, torque nut to recommended spec.

Desgn	Description	Stud	Wire Size	Qty
A	Amp 320383	1/4"	2 AWG	2
	3M 16-14-W	1/4"	4 AWG	2
	3M 15-14S-W	1/4"	6 AWG	2
B	Amp 330301	#10	2 AWG	1
	3M 16-10-W	#10	4 AWG	1
	3M 15-10S-W	#10	6 AWG	1
	3M 14-10S-W	#10	8 AWG	1

Part #	Description	Quantity
ANS26-832R(x)	Screw, Cad	4
NAS1149FN832P	Flat Washer, Cad	4
MS21044N-08	Locknut, Cad	4

ITEM #	QTY	PART NO.	DESCRIPTION
6	2	206900	Nut, UNC #10-32x3.3mm Open, Brass, Yel. Zinc Plated
5	1	242048	Washer, Spring Lock, M5, Spring Steel, Yel. Zinc Plated
4	1	206897	Washer, Flat, M5, Steel, Yel. Zinc Plated
3	4	204703	Nut, UNC 1/4-20x5.6mm Open, Steel, Yel. Zinc Plated
2	2	242049	Washer, Spring Lock, M6, Spring Steel, Yel. Zinc Plated
1	4	206896	Washer, Flat, M6, Steel, Yel. Zinc Plated

UNLESS NOTED OTHERWISE TOLERANCE BLOCK: DIMENSIONS ARE IN INCHES DECIMALS ANGULAR ±1°	PROPRIETARY DATA DISCLOSED HEREWITH IS NOT TO BE REPRODUCED, USED, OR DISCLOSED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM LONE STAR AVIATION CORP.
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XXX ±.015	
XXXX ±.0005	
DD NOT SCALE DRAWING	
MATERIAL: Alum 5052	DRAWN BY: JRM 9-28-07
FINISH: n/a	APPROVED BY: JRM 5-08-08
	NEXT ASSY:

LONE STAR AVIATION CORP.
Mansfield, Texas

100 Amp Filter
Installation Drawing
Modification Part

SIZE: DRAWING NO. B LS03-01022-05
COMP. FILE

REV	DATE	CHANGED
REV		100 Amp Filter Installation Drawing Modification Part
B	LS03-01022-05	REV C
A		REV C

