



Service Bulletin SB-0009

Technical Portions FAA Approved

Epic Aircraft, LLC ♦ 22590 Nelson Road ♦ Bend OR 97701
Phone: 541-318-8849 ♦ Fax: 541-382-5125 ♦ Web: www.epicaircraft.com

Subject: Main landing gear damper replacement, clearance inspection, and repair.

ATA-Code: 32-10

Labor: 8.0 hours

Effectivity: K003-K006

Affected Model(s): E1000

Due: Next scheduled maintenance event.

Compliance: Mandatory

Recurrence: No

1 **BACKGROUND AND PURPOSE:**

It has been found that some aircraft may not have adequate clearance between the main landing gear damper charging valve and the wheel well liner.

This Service Bulletin gives instructions to replace the left and right main landing gear dampers with assemblies that allow for proper clearance and repair any damage that may have occurred from inadequate clearance.

2 **REFERENCES:**

Epic E1000 Aircraft Maintenance Manual, P/N SK05000000
Epic E1000 Illustrated Parts Catalog, P/N SK05000004
AC43.13-1B

3 **WARRANTY:**

For aircraft under warranty, parts and labor will be covered by Epic Aircraft, LLC if the work is performed within the compliance period and at an Authorized E1000 Service Center.

4 **TOOLS:**

<u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	Hydraulic Aircraft Jacks, 10,000lb capacity.	3	☐	☒
2.	Lifting Pins, PN FK07100001	3	☐	☒
3.	Hydraulic Service Cart, (MIL-PRF-83282 or MIL-PRF-87257) 2500 psi, 3.5 gpm capacity.	1	☐	☒
4.	Nitrogen Service Bottle, 500 psi minimum.	1	☐	☒
5.	Common Hand Tools	-	☐	☒

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5 PARTS/MATERIALS:

<u>No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	AK32101300 D-	DAMPER ASSY, MLG	2	☒	☐
2.	MS24665-360	PIN, COTTER, CAD STEEL Ø .125 x 2.00	4	☒	☐
3.	MIL-PRF-83282 or MIL-PRF-87257)	Hydraulic Fluid	A/R	☐	☒

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6 **INSTRUCTIONS:**

A) Visually inspect the left and right wheel well tunnel liners for damage due to contact with the damper charging valve.

B) If no damage is found, proceed to step (D).

C) If damage is found, do the steps that follow:

1) Remove the damaged wheel well tunnel liner (refer to the E1000 AMM PN SK05000000, chapter 57-10).

2) Blend away the damaged area.

NOTE: Do not exceed a blend area of 0.5" x 0.5" or depth of one ply of carbon fiber. If damage exceeds those dimensions, contact Epic Aircraft for disposition.

3) Paint the blended area (refer to the Epic E1000 Airframe Maintenance Manual, PN SK05000000, Chapter 51-20).

4) Install the repaired wheel well tunnel liner (refer to the E1000 AMM PN SK05000000, chapter 57-10).

D) Replace the left and right main landing gear dampers as follows:

1) Set the BATT 1 and BATT 2 switches to OFF.

2) Remove all external electrical power to the airplane (refer to the E1000 AMM PN SK05000000, chapter 24-40).

3) Raise the airplane using aircraft jacks (refer to the E1000 AMM PN SK05000000, chapter 7-10).

4) Remove the left and right MLG dampers (refer to the E1000 AMM PN SK05000000, chapter 32-10).

5) Tag the left and right main landing gear dampers with "Repairable" parts tags.

6) Discharge the nitrogen from the dampers (refer to the E1000 AMM PN SK05000000, chapter 32-10.B[3][b]-[d]).

7) Return the removed main landing gear dampers to Epic Aircraft for rework. Reference the aircraft serial number on the packaging:

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Bend, OR 97701

8) Install the reworked left and right MLG dampers, PN AK32101300 D- (refer to the E1000 AMM PN SK05000000, chapter 32-10).

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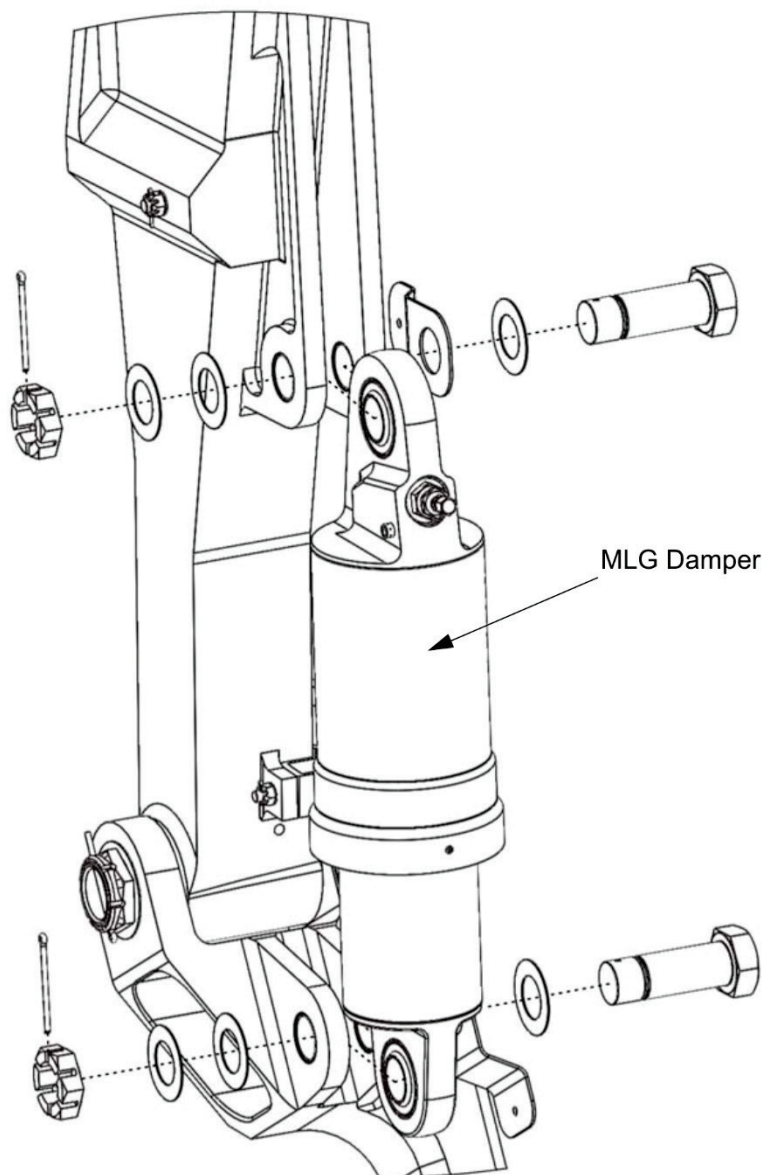
9) Service the nitrogen in the left and right MLG dampers (refer to the E1000 AMM PN SK05000000, chapter 12-10).

E) Do the operational test of the landing gear system (refer to the E1000 AMM PN SK05000000, chapter 32-30). Make sure the clearance between the damper charging valve and wheel well tunnel liner is at least 0.25”.

NOTE: If the clearance is less than 0.25”, contact Epic Aircraft for disposition.

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Figure 1: Main landing gear damper.



Right side shown, left side opposite.

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7 WEIGHT AND BALANCE:

Negligible

8 PUBLICATIONS AFFECTED:

Epic E1000 Aircraft Maintenance Manual, P/N SK05000000

9 RECORD COMPLIANCE:

Make appropriate entry in airplane maintenance records.

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Appendix A: Compliance Letter

Please complete and mail this form to Customersupport@epicaircraft.com

This is to certify that I have completed the work in accordance with the Epic Aircraft, LLC Service Bulletin.

Aircraft Owner Information:

Date: _____ Aircraft Serial Number: _____ Aircraft Reg. Number: _____

Owner's Name: _____

Maintenance Entity Information

Name of Shop Performing the work: _____

Name of Person(s) Performing inspection and/or work: _____

Phone Number: _____ Email: _____

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