



Service Bulletin SB-0044

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 Protective Plate Placement

ATA-Code: 32-10

Labor: 1 hour per side for plate replacement.
2 hours per side for repair.

Effectivity: K023 – K032

Affected Model(s): E1000GX

Due: Next annual inspection.

Compliance: Mandatory

Recurrence: No

1 BACKGROUND AND PURPOSE:

It has been found on effected aircraft that the protective plate installed on the aft face of the main landing gear trailing link inboard tabs may not be correctly positioned. This could allow the up-lock hook to contact the trailing link.

This Service Bulletin gives instructions to verify the correct position of the protective plate and inspect for damage and relocate the plate if necessary.

2 REFERENCES:

Epic E1000 Airframe Maintenance Manual, P/N SK05000000

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 APPROVAL:

The engineering aspects of this service document have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

5 REVISION:

This is the original issue of this service bulletin.

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6 TOOLS:

<u>No.</u>	<u>Description</u>	<u>Qty</u>	<u>Epic Aircraft Supplied</u>	<u>Customer Supplied</u>
1.	Common hand tools.	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	Non-Metallic Scraper	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>

7 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.	PK32100001	Protective Plate, Trailing Link, MLG	A/R	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	-	Isopropyl Alcohol	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	3M VHB Tape 5915	Double-Sided Foam Tape, .016 Thick	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	-	Chemical conversion coating conforming to MIL-DTL-5541.	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.	-	Type I, Class C1 or C2 epoxy primer conforming to MIL-PRF-23377	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.	Peerco 321	Adhesive Remover	A/R	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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8 INSTRUCTIONS:

1. Set the BATT 1 and BATT 2 switches to OFF.
2. Disconnect external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
3. Visually inspect the aft face of the left and right MLG trailing link inboard tab for signs of contact from the up-lock hook (Refer to Figure 1).
4. Check the protective plate installed on the inboard tabs of the left and right main landing gear trailing links for correct placement, refer to Figure 1.
5. If the plate is mounted correctly and there is no damage, no further action is required.
6. If the plate is not mounted correctly use a non-metallic scraper to carefully pry the protective plate away from the trailing link. Be careful not to damage the finish on the trailing link.
7. Clean any residual adhesive from the trailing link with isopropyl alcohol.

NOTE: Peerco 321 adhesive remover is recommended if the adhesive is difficult to remove. Make sure to clean the trailing link with isopropyl alcohol after using Peerco 321.

8. Inspect the inboard trailing link tab for damage. If no damage is found, proceed to step (9). If damage is found, proceed as follows:
 - a. Damage to paint and protective coatings only, proceed to step (c).
 - b. Damage to the aluminum, contact Epic Aircraft for disposition.
 - c. Apply a conversion coating to any exposed aluminum in the repair area as follows:

Caution: Abrasives containing iron such as steel wool, iron oxide, rouge, or steel wire are prohibited for all cleaning operations. Treated parts that have become soiled shall be cleaned with materials that will remove the soil without damaging the base metal, the part, or the conversion coating.

- i. Prior to coating, the base metal shall be mechanically or chemically cleaned using 225S (phosphoric acid) cleaner diluted with 2 parts water, such that a water break-free surface is obtained after rinsing. While the aluminum surface is still wet, rinse thoroughly with clear water or wipe with a clean damp cloth. Allow surface to air dry or wipe dry with a clean cloth.

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- ii. Apply chemical conversion coating conforming to MIL-DTL-5541 to cleaned aluminum non-electrolytically by spray, brush, or immersion for two to five minutes. Apply only an amount that can be coated and rinsed before the solution dries. Flush surface with cold water, or mop with a damp synthetic sponge rinsed occasionally in clean water. Allow surface to dry before painting.

Note: Chemical conversion coating (chromic acid) per MIL-DTL-5541 is amber in color and is not to be diluted.

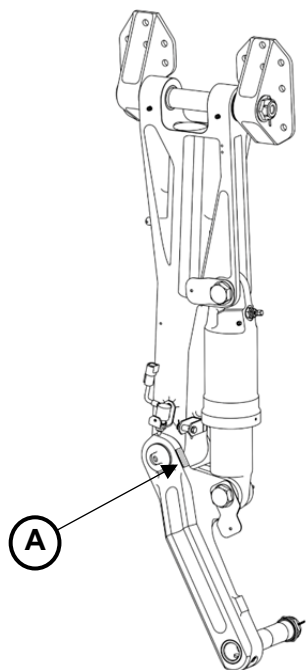
- iii. Prime with Type I, Class C1 or C2 epoxy primer conforming to MIL-PRF-23377.
 - iv. Paint the repaired area (refer to the Epic E1000 Airframe Maintenance Manual, PN SK05000000, Chapter 51-20).
9. If the protective plate was damaged during removal, obtain a new plate, and proceed to step (10). If the protective plate was not damaged during removal, do the steps that follow:
- a. Clean any residual adhesive from the plate with isopropyl alcohol.
 - b. Install new 3M VHB 5915 tape on the plate.
 - c. Clean the installation surface of the trailing link with isopropyl alcohol.
10. Install the plate on the trailing link as shown in Figure 1.

NOTE: The surface temperature of the trailing link must be at least 70F° when applying the plate.

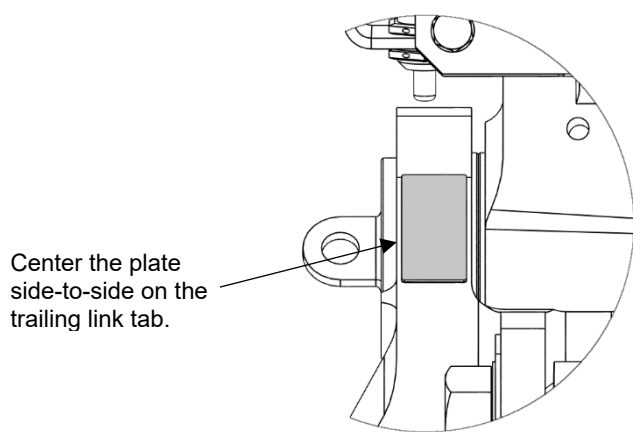
NOTE: Make sure the plate is not on the radius portion of the trailing link.

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Figure 1: Main Landing Gear Protective Plate Placement



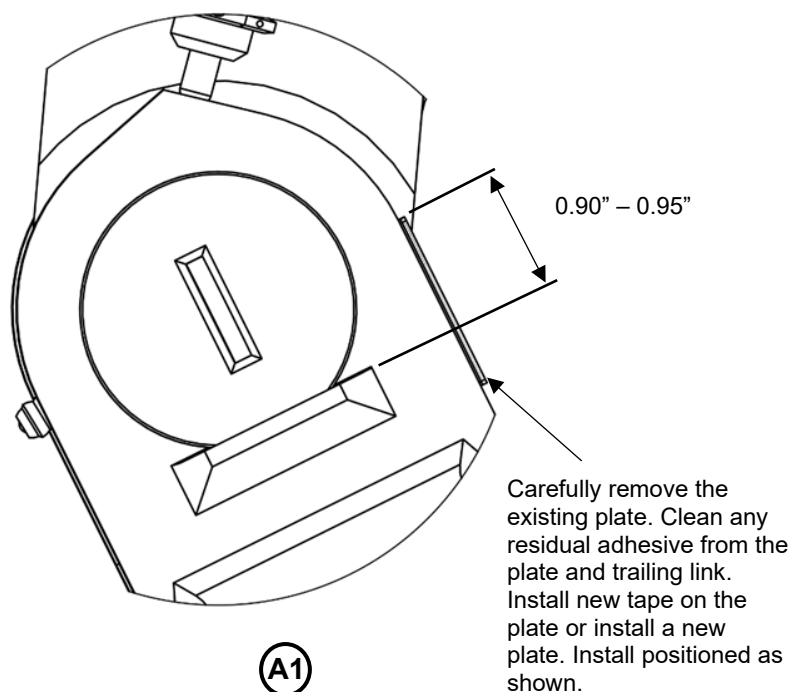
(Right Side Shown, Left Side Opposite)



Center the plate
side-to-side on the
trailing link tab.

A2

(View Looking Forward)



A1

(View Looking Outboard)

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9 WEIGHT AND BALANCE:

Negligible

10 PUBLICATIONS AFFECTED:

N/A

11 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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