Service Bulletin SB-0020

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: Nose Landing Gear Interference

ATA-Code: 32-20

Labor: 4.0

Effectivity: K003 – K010

Affected Model(s): E1000

Due: Next annual inspection.

Compliance: Mandatory

Recurrence: No

1 BACKGROUND AND PURPOSE:

It has been found that the nose landing gear actuator may contact the right nose landing gear door pivot stop when the nose landing gear is fully retracted.

This Service Bulletin gives instructions to remove the nose landing gear door retraction weldment for rework to eliminate the possibility of contact.

2 REFERENCES:

Epic E1000 Aircraft 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 by a properly certificated Airframe and Power Plant mechanic or FAA approved repair station.

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4 TOOLS:

No.	Description	Qty	Epic Aircraft Supplied	Customer Supplied
1.	Common hand tools.	AR	☐	☒
2.	Hydraulic Aircraft Jacks, 10,000lb capacity.	3	☐	☒
3.	Lifting Pins, PN FK07100001	3	☐	☒
4.	Hydraulic Service Cart, (MIL-PRF-83282 or MIL-PRF-87257) 2500 psi, 3.5 gpm capacity.	1	☐	☒

5 PARTS/MATERIALS:

No.	Part Number	Description	Qty	Epic Aircraft Supplied	Customer Supplied
1.	MIL-PRF-23377	Epoxy Primer	AR	☐	☒
2.	MIL-PRF-85285	Paint	AR	☐	☒
3.	-	320 Grit or higher aluminum oxide sandpaper.	AR	☐	☒
4.	-	Isopropyl Alcohol	AR	☐	☒

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6 INSTRUCTIONS:

1. Set the BATT 1 and BATT 2 switches to OFF.
2. Remove external electrical power from the airplane (refer to Epic E1000 Aircraft Maintenance Manual, PN SK05000000, chapter 24-40).
3. Raise the airplane using aircraft jacks. Ensure there is sufficient clearance from the ground to retract and extend the landing gear (refer to the Epic E1000 Airframe Maintenance Manual, PN SK05000000, Chapter 7-10).
4. Remove the bolts, washers, and nuts that attach the nose landing gear door pushrods to the door retraction weldment (refer to figure 1).
5. Remove the screws, washers, and nuts that attach the retraction weldment bearing plates to the blast shield.
6. Carefully lower the door retraction weldment and disconnect the nose gear door extension springs.
7. Remove the door retract weldment from the airplane.
8. Remove the nuts and washers that attach the bearing plates to the door retraction weldment. Remove the bearing plates.
9. Perform one of the following:
   - **a.** Return the removed door retraction weldment to Epic Aircraft for rework. Reference the aircraft serial number on the packaging:

     Epic Aircraft, LLC

     22590 Nelson Road

     Bend, OR 97701

     -or-

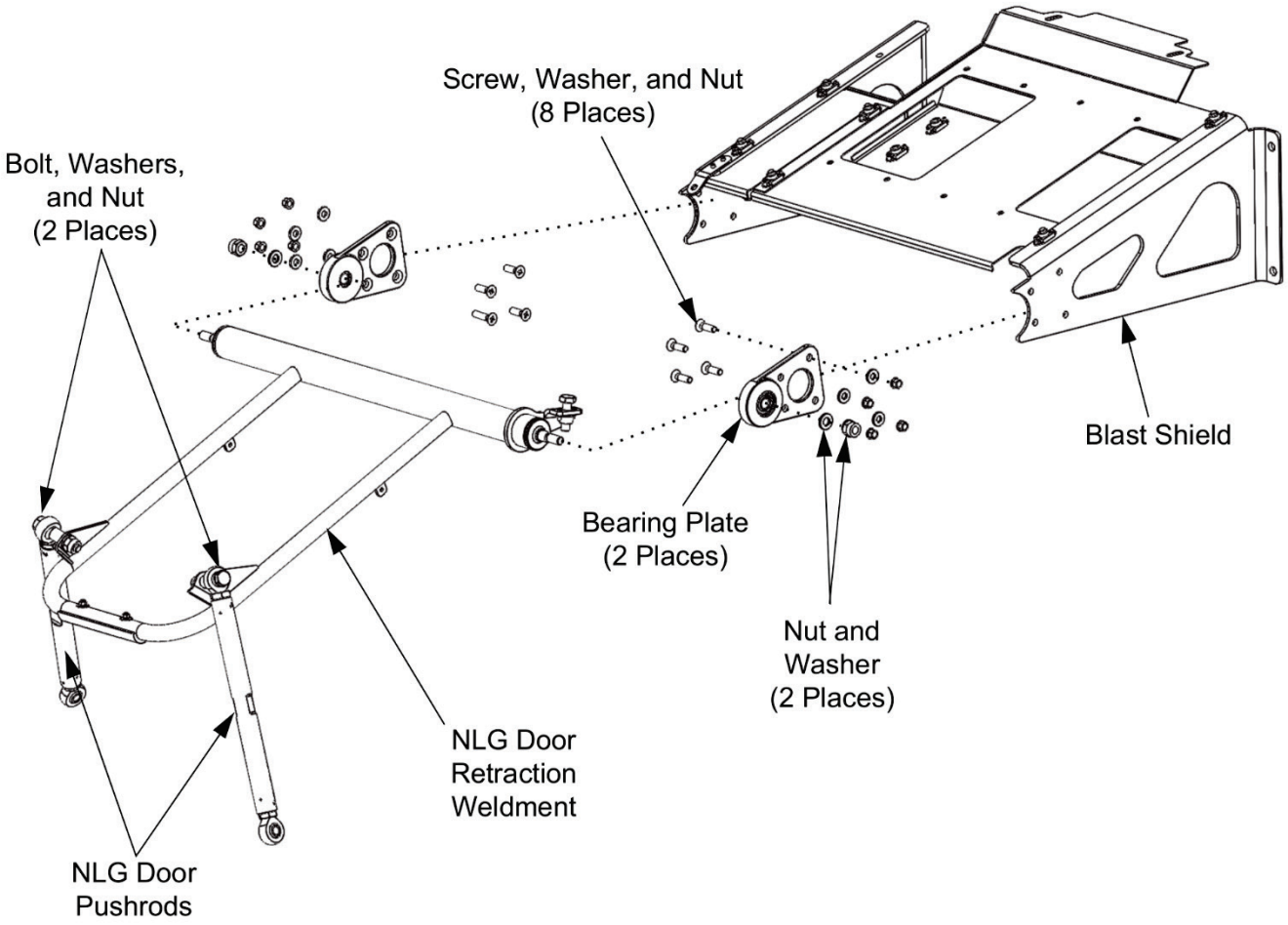
   - **b.** Remove the right pivot stop from the door retraction weldment as follows (refer to figure 2):
     - **i.** Protect the finish of the pivot tube on both sides of the right pivot stop with masking tape.
     - **ii.** Carefully grind or sand away the weld that attaches the right pivot stop to the pivot tube. Do not to remove any material from the pivot tube.
     - **iii.** Remove the right pivot stop from the pivot tube.
     - **iv.** Sand the affected area with 320 grit aluminum oxide sandpaper.
     - **v.** Clean the area with isopropyl alcohol.
     - **vi.** Prime and paint the affected area of the pivot tube (refer to the Epic E1000 Airframe Maintenance Manual, PN SK05000000, Chapter 51-20).

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10. Put the bearing plates in position on the reworked door retraction weldment and install the washers and nuts.
11. Put the door retraction weldment in position in the nose wheel well and connect the nose gear door extension springs.
12. Put door retraction weldment bearing plates in position on the blast shield.
13. Install the screws, washers, and nuts that attach the door retraction weldment bearing plates to the blast shield.
14. Install the bolts, washers, and nuts that attach the nose gear door pushrods to the door retraction weldment.
15. Check nose landing gear door rigging (refer to the Epic E1000 Airframe Maintenance Manual, PN SK05000000, Chapter 32-20[E][3]).
16. Lower the airplane and remove the aircraft jacks (refer to the E1000 AMM PN SK05000000, chapter 7-10).

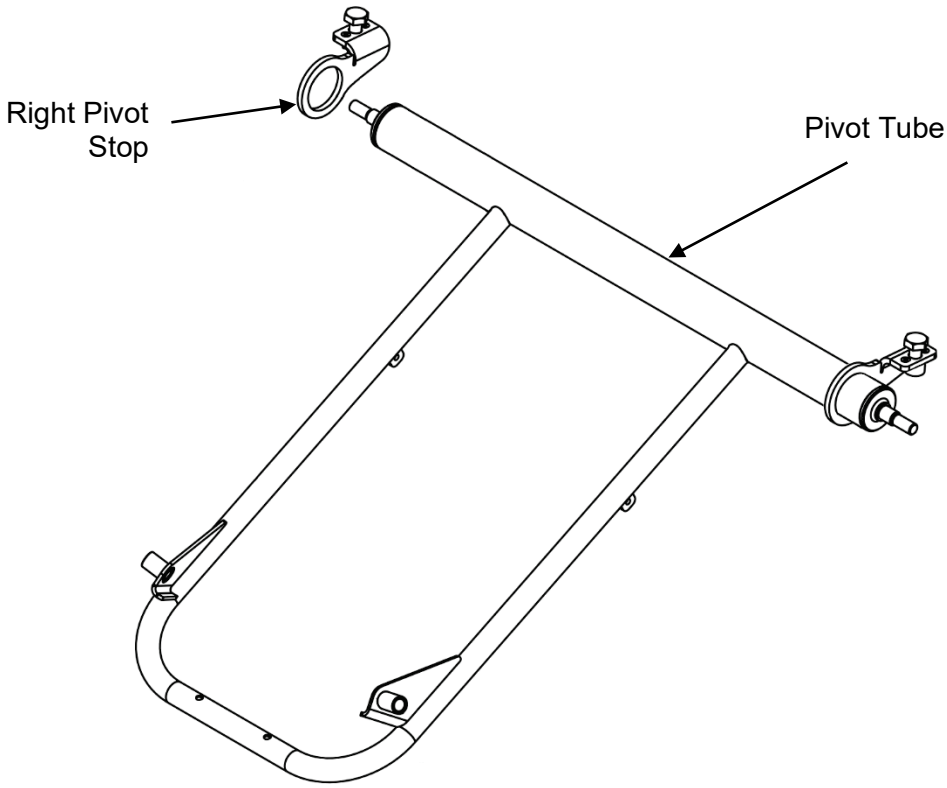
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Figure 1: Nose Landing Gear Interference



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Figure 2: Nose Landing Gear Door Retraction Weldment Rework



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7 WEIGHT AND BALANCE:

Negligible

8 PUBLICATIONS AFFECTED:

N/A

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: _____