



SERVICE BULLETIN

Equipment/Furnishings Passenger Compartment

INSPECTION / REPLACEMENT OF EJECTOR BASE

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The AmSafe Commercial and Government Entity (CAGE) code: 35FB9

ATA 25-20-01

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Transmittal Sheet

TO: Holders of SB504443-25-03, dated 2-Oct-2017. This page transmits issue 2.

Revision Highlights

A complete reissue of SB504443-25-03, Issue 2, accomplishes the changes summarized below. Remove and replace SB504443-25-03 issue 1.

Page(s)	Correction/Update
N/A	N/A
Page 4	§ 1.3: Correct applicable manufacturing date from December 2016 to December 2015.

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Record of Revisions

Retain this record at the front of the service bulletin. On receipt of an issue, record incorporation of the issue on this sheet.

Issue	Issue Date	Date Inserted	Inserted By
1	15-Jun-2017		
2	2-Oct-2017		

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1 Planning Information

1.1 Effectivity

This service bulletin applies to all holders of the AmSafe Seatbelt System.

This Service Bulletin is applicable to the Restraint System Assemblies installed on the passenger seats using the 504443-SERIES End Release Buckle manufactured or repaired at AmSafe between December 2015 and May 2017. The restraint systems that this service bulletin applies to are manufactured by AmSafe, Inc and include the following base part numbers:

1032-()-()-()	2261-()-()-()	3060-()-()-()	3155-()-()-()	3264-()-()-()
1043-()-()-()	2268-()-()-()	3061-()-()-()	3159-()-()-()	4171-()-()-()
1048-()-()-()	3000-()-()-()	3062-()-()-()	3163-()-()-()	4277-()-()-()
2087-()-()-()	3004-()-()-()	3083-()-()-()	3176-()-()-()	504443-()-()-()
2098-()-()-()	3004-()-()-()	3085-()-()-()	3195-()-()-()	504548-()-()-()
2102-()-()-()	3008-()-()-()	3106-()-()-()	3200-()-()-()	504828-()-()-()
2103-()-()-()	3023-()-()-()	3113-()-()-()	3202-()-()-()	7209-()-()-()
2167-()-()-()	3036-()-()-()	3128-()-()-()	3213-()-()-()	
2176-()-()-()	3040-()-()-()	3138-()-()-()	3216-()-()-()	
2177-()-()-()	3041-()-()-()	3140-()-()-()	3217-()-()-()	
2187-()-()-()	3059-()-()-()	3154-()-()-()	3220-()-()-()	

1.2 Concurrent Requirements

None

1.3 Reason

An aircraft manufacturer has reported that they were unable to latch the buckle during normal use after the buckle had undergone Ejector Base replacement under Service Bulletin 504443-25-02 at the AmSafe repair facility in Phoenix, AZ. The issue is being observed on Restraint Systems with manufacturing dates from December 2015 to May 2017 from AmSafe. This issue presents itself quickly and is easily identified, as the Push Button becomes stuck in the depressed position.

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By updating the Buckle Assembly with a 504604-11 Ejector Base from current production parts using the latest assembly methodology and fixturing at AmSafe, these issues are resolved.

1.4 Description

This Service Bulletin provides instructions for Buckle Assembly inspection on aircraft by operator and manufacturer and any action if necessary. This Service Bulletin applies to all P/Ns listed in Section 1 including seat, divan, and extension restraints.

1.5 Compliance

Holders of the AmSafe Seatbelt should perform the inspection instructions in this Service Bulletin as soon as possible.

Holders must complete and return the notice of service bulletin compliance.

1.6 Approval

This service bulletin contains no modification information that revises the approved configuration and therefore does not require FAA or other regulatory agency approval.

1.7 Manpower

Buckle Assembly inspection and testing is estimated to require less than fifteen (15) minutes per aircraft.

Note: The estimate does not include lost time, for example:

- Time to schedule the work.
- Shipping, receiving or other administrative tasks required to complete this Service Bulletin.

1.8 Weight and Balance

Not applicable.

1.9 Electrical Load Data

None.

1.10 Software Accomplishment Summary

None.

1.11 References

None.

1.12 Other Publications Affected

None.

1.13 Interchangeability or Intermixability of Parts

None.

2 Material Information

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2.1 Material - Price and Availability

A 'free-of-charge' purchase order containing the following information should be placed with AmSafe. Return only the affected Buckle half to AmSafe, Inc. at the following location. Contact AmSafe Customer Service for a return merchandise authorization (RMA) number. Include the following information:

- Reference: "Service Bulletin: SB504443-25-03"
- Description:
- Part Number:
- Quantity:
- Name of Airline/Operator:
- Shipping Address:

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2.2 Industry Support Information

For questions or technical details about the service bulletin please contact Jack Riley:
Telephone: +1(602)850-2715
Email: jriley@amsafe.com

2.3 Material Necessary for Each Aircraft/Engine/Component

Ejector Base Replacement Kit P/N 506311-1 available from AmSafe, Inc.

2.4 Material Necessary for Each Spare

Ejector Base Replacement Kit P/N 506311-1 available from AmSafe, Inc.

2.5 Re-identified Parts

The identification tag sewn onto the buckle half of the restraint system shall be identified with "SB504443-25-03" after the repair has been completed.

2.6 Tooling - Price and Availability

Standard hand tools including commercially available T8H and T10H tamper-resistant Torx driver.



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2.7 Warranty

AmSafe warranty remedies are available for those Lap Belt systems listed in the Effectivity Section of this Service Bulletin.

Restraint System Assemblies containing one of the subject Buckle Assemblies should be:

Returned to AmSafe, Inc. together with a free of charge purchase order containing the following information:

- Reference SB504443-25-03
- Description
- Part number
- Quantity
- Name of airline
- Operator shipping details

3 Accomplishment Instructions

3.1 Identification

- Find the label attached to the portion of the restraint that contains the End Release Buckle. On this label will be a date of manufacture (DMF) in the format AMMY or RAMMY, where 'R' indicates that the product was routed through AmSafe's Overhaul group, 'MM' is the month, and 'YY' is the year. To exemplify, 'DMF RA0117' would indicate that the date of manufacture is January of 2017 through the Overhaul group.
- If the label has any of the date of manufacture codes in Table 1 below, continue on with this Service Bulletin. If it does not, this Service Bulletin does not apply.

RA1215	RA0116	RA0216	RA0316	RA0416	RA0516
RA0616	RA0716	RA0816	RA0916	RA1016	RA1116
RA1216	RA0117	RA0217	RA0317	RA0417	RA0517
A1215	A0116	A0216	A0316	A0416	A0516
A0616	A0716	A0816	A0916	A1016	A1116
A1216	A0117	A0217	A0317	A0417	A0517

Table 1: Restraint DMF Codes for Effected Buckles

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- 3.2 Completely insert the Connector into the Buckle as would be done during normal use. Visually check to see if the Connector is completely engaged within the Buckle. Figure 1 below shows a Buckle where the Connector is fully engaged. Figure 2 shows a Buckle where the Connector is not fully engaged. Notice the opening of the Connector is easily visible in Figure 2, whereas it is not in Figure 1.



Figure 1: Fully Engaged Connector.



Figure 2: Connector not Fully Engaged.



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- 3.3 Cycle the buckle fifteen (15) Times. One cycle consists of inserting the connector completely and depressing the Push Button to eject the connector. In the event that the Push Button does not return at all when the Connector is inserted, as seen in Figure 3, proceed with this Service Bulletin by following the directions in Warranty Section 2.7. If the Push Button does return to its resting position, the Buckle is functioning as intended and no further action is required.

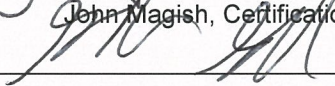


Figure 3: Push Button not Returning when Connector Inserted.



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1. Approval Signatures

Prepared By:		<u>20 Oct 17</u>
	Chris Arnold, Multipoint Engineering Manager	Date
Reviewed By:		<u>10/20/17</u>
	Matt Browning, Seatbelt Engineering Manager	Date
Approved By:		<u>10/16/17</u>
	Jack Riley, Quality Manager	Date
Approved By:		<u>10/20/17</u>
	Kevin Keeslar, Director of Engineering, Airbags	Date
Approved By:		<u>10/16/2017</u>
	John Magish, Certification Manager	Date
Approved By:		<u>23 OCT 2017</u>
	Giuseppe Gullotto, Director of Engineering	Date



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4 RE: Notice of Service Bulletin Compliance for SB504443-25-03, Issue: 2.

AmSafe Quality Assurance:

This letter is to inform AmSafe that SB504443-25-03, Issue 2, was complied with as indicated as indicated in the compliance section of the document.

Print Name

Signature

Address

Date

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