

FROM : PARKER MEGGITT TECHNICAL PUBLICATIONS

TO : HOLDERS OF SERVICE BULLETIN SB 25-1111432 FOR THE  
RESTRAINT SYSTEMS WITH PNR 1111430-XX AND 1111475-XX

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## TRANSMITTAL SHEET

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REVISION 002  
dated Sep 12/23

The Table that follows gives a list of the primary changes in this Service Bulletin:

Chapter/Section Page No.	Description of Change	Effectivity
All Pages	Updated to Parker Meggitt branding. Revised "Meggitt Safety Systems, Inc." to "Parker Meggitt".	—
1	Updated publisher. Updated 1.A.(2).	—
3 to 10	Updated Table 1 to three columns and reorganized structure.	—
5	Added restraint systems PNRs 1111148-03-001 and 1111148-05-001.	—
12	Updated 1.D.(1).(a) and (b).	—
13	Updated 1.E.(1).(d).	—
22	Updated names in Table 3.	—

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CAGE Code: 45402

Enabling Engineering  
Breakthroughs that Lead  
to a Better Tomorrow

## SERVICE BULLETIN

### CHAPTER 25 - EQUIPMENT/FURNISHINGS

#### Information Regarding the Potential Failure of the Guarded Rotary Buckles with Plastic Handles PNR 1111430-XX and PNR 1111475-XX

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##### Export Compliance Statement :

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This manual is published by Parker Meggitt (CAGE Code = 45402) DBA Pacific Scientific HTL.

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## 1. PLANNING INFORMATION

### A. Effectivity

- (1) This Service Bulletin (SB) revision is a response to Federal Aviation Administration (FAA) Airworthiness Directive (AD) 2021-07-13. Parker Meggitt requested, and is granted, an approved FAA Global AMOC (Alternate Method of Compliance) of which this SB will serve to detail and provide FAA recognized methods of AD compliance.
- (2) This SB will detail that all restraint systems with BLUE logo rotary buckles or metal handles configurations are inherently compliant to FAA AD 2021-07-13 per AMOC dated June 29, 2021.
- (3) This SB will detail all applicable Restraint Systems that use Buckle Assemblies previously identified for potential unsafe cracking handle conditions. Please refer to Table 1 for a list of all Buckle Assemblies and their corresponding Restraint Systems that were deemed applicable by FAA AD 2021-07-13 per AMOC dated June 29, 2021.
- (4) This SB will provide clarification, new images, and details for inspection of suspect buckle assemblies. This SB will provide optional tooling information, disassembly and assembly procedures, and contact information.

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Date of original issue : May 22/07

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(5) Part Numbers :

- (a) Refer to Table 1 on page 3 for the affected top level restraint system part numbers.
- (b) Refer to Table 2 on page 11 for the PNR 1111430-XX and PNR 1111475-XX plastic buckle assemblies that are suspected of containing the defective cracking issue and must be checked.



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This document is subject to the Export Controls and Restrictions listed on the first page.

**Table 1**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
0108084-05	1111430-13	0108904-71	1111430-55	0118026-05	1111475-05
0108084-07	1111430-11	0108904-91	1111430-51	0118030-01	1111430-13
0108092-01	1111430-53	0108904-93	1111430-53	0118030-03	1111430-13
0108092-03	1111430-51	0108904-95	1111430-55	0118030-05	1111466-23
0108904-01	1111430-51	0108904-97	1111430-53	0118030-07	1111475-83
0108904-03	1111430-53	0108910-05	1111475-11	0118030-300	1111475-83
0108904-05	1111430-55	0108910-07	1111475-13	0118037-01	1111475-11
0108904-27	1111430-53	0111061-01	1111475-03	0118037-01-001	1111475-11
0108904-301	1111430-51	0111061-01-001	1111475-01	0118037-01-048	1111475-11
0108904-303	1111430-53	0111061-25-001	1111475-05	0118037-03	1111475-13
0108904-53	1111430-51	0111061-35-001	1111475-05	0118037-03-001	1111475-13
0108904-55	1111430-53	0111061-515-001	1111475-05	0118037-03-048	1111475-13
0108904-57	1111430-51	0118013-01	1111430-13	0118038-01	1111475-05
0108904-67	1111430-51	0118013-11	1111430-33	0118038-11	1111475-05
0108904-69	1111430-53	0118018-01	1111430-13	0118041-05	1111475-15

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
0118046-05-044	1111475-05	1106193-23	1111475-03	1109026-11-001	1111475-01
0118046-05-059	1111475-05	1106193-31	1111475-01	1109026-31-001	1111475-01
0118047-05-044	1111475-05	1106193-33	1111475-03	1109026-41-001	1111475-01
0118047-05-059	1111475-05	1106193-41	1111475-01	1109026-51-001	1111475-01
0118050-03	1111475-13	1106193-43	1111475-03	1109026-61-001	1111475-01
1106188-01	1111475-01	1106193-51	1111475-01	1109042-01-001	1111475-01
1106188-03	1111475-03	1106193-53	1111475-03	1109050-01-001	1111475-01
1106188-05	1111475-01	1106193-61	1111475-01	1109050-11-001	1111475-01
1106188-05	1111475-03	1106193-63	1111475-03	1109051-01-001	1111475-01
1106188-07	1111475-01	1109007-03-001	1111475-03	1111131-01	1111475-01
1106188-07	1111475-03	1109012-01-001	1111475-01	1111131-03	1111475-03
1106193-03	1111475-03	1109012-03-001	1111475-03	1111136-05	1111475-05
1106193-11	1111475-01	1109015-01-001	1111475-01	1111136-15	1111475-15
1106193-13	1111475-03	1109015-03-001	1111475-03	1111136-17	1111475-15
1106193-21	1111475-01	1109026-01-001	1111475-01	1111147-01-001	1111475-01

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
1111147-03-001	1111475-03	1111160-03	1111475-03	1117148-03	1111430-13
1111148-01-001	1111475-01	1111168-05-001	1111475-05	1117148-05	1111430-11
1111148-03-001	1111475-03	1111460-01	1111475-11	1117148-07	1111430-13
1111148-05-001	1111475-05	1111460-03	1111475-13	1117148-09	1111430-11
1111150-01-001	1111475-01	1117119-01	1111430-51	1117148-101	1111430-11
1111150-03-001	1111475-03	1117119-03	1111430-53	1117148-103	1111430-13
1111150-11-001	1111475-01	1117119-05	1111430-51	1117148-11	1111430-13
1111150-13-001	1111475-03	1117119-07	1111430-53	1117148-13	1111430-15
1111150-15-001	1111475-05	1117119-09	1111430-51	1117148-133	1111430-11
1111151-01	1111475-01	1117119-11	1111430-53	1117148-15	1111430-11
1111151-03	1111475-03	1117119-51	1111430-51	1117148-17	1111430-13
1111158-03-226	1111475-03	1117119-57	1111430-53	1117148-21	1111430-11
1111158-11-001	1111475-01	1117119-53	1111430-53	1117148-23	1111430-13
1111158-13-001	1111475-03	1117119-55	1111430-51	1117148-27	1111430-11
1111160-01	1111475-01	1117148-01	1111430-11	1117148-29	1111430-13

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
1117148-33	1111430-11	1117186-01-066	1111475-11	1117189-15-01	1111475-05
1117148-35	1111430-13	1117186-03-001	1111475-13	1117423-01	1111430-11
1117148-39	1111430-11	1117186-03-044	1111475-13	1117423-03	1111430-13
1117148-41	1111430-13	1117186-03-048	1111475-13	1117423-13	1111430-11
1117181-01	1111475-01	1117186-03-061	1111475-13	1117423-15	1111430-13
1117181-03	1111475-03	1117186-03-065	1111475-13	2000001-01	1111475-01
1117185-01-001	1111475-11	1117186-03-066	1111475-13	2000001-01-001	1111475-01
1117185-01-058	1111475-11	1117188-01	1111475-01	2000001-03	1111475-03
1117185-01-061	1111475-11	1117188-03	1111475-03	2000001-03-001	1111475-03
1117185-03-061	1111475-13	1117189-01-001	1111475-01	2000013-01	1111475-01
1117186-01-001	1111475-11	1117189-01-01	1111475-01	2000013-01-001	1111475-01
1117186-01-044	1111475-11	1117189-03-01	1111475-03	2000013-03	1111475-03
1117186-01-048	1111475-11	1117189-05-01	1111475-05	2000013-03-001	1111475-03
1117186-01-061	1111475-13	1117189-11-01	1111475-01	2000013-11-001	1111475-01
1117186-01-065	1111475-11	1117189-13-01	1111475-03	2000013-13-001	1111475-03

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
2000014-01	1111475-01	2000029-111	1111475-01	2000029-55	1111475-15
2000014-03	1111475-03	2000029-121	1111475-01	2000029-61	1111475-01
2000014-05	1111475-05	2000029-123	1111475-03	2000029-71	1111475-01
2000014-21	1111475-01	2000029-125	1111475-05	2000029-73	1111475-03
2000014-23	1111475-03	2000029-13	1111475-03	2000029-81	1111475-01
2000014-81	1111475-01	2000029-131	1111475-01	2000032-01	1111475-01
2000014-83	1111475-03	2000029-133	1111475-03	2000032-03	1111475-03
2000021-01-001	1111475-61	2000029-21	1111475-01	2000037-05	1111475-05
2000021-03-001	1111475-63	2000029-23	1111475-03	2000039-01	1111475-01
2000021-05-001	1111475-65	2000029-31	1111475-01	2000039-05	1111475-05
2000029-01	1111475-01	2000029-33	1111475-03	2000039-07	1111475-01
2000029-03	1111475-03	2000029-41	1111475-01	2000039-11	1111475-01
2000029-101	1111475-01	2000029-43	1111475-03	2000039-13	1111475-03
2000029-103	1111475-03	2000029-51	1111475-11	2000039-15	1111475-05
2000029-11	1111475-01	2000029-53	1111475-13	2000040-01	1111475-01

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
2000040-03	1111475-03	2000067-31	1111475-01	2000097-05	1111475-05
2000052-03	1111475-03	2000067-33	1111475-03	2000097-11	1111475-01
2000052-03-001	1111475-03	2000067-35	1111475-05	2000097-13	1111475-03
2000058-01	1111475-01	2000067-41	1111475-01	2000097-15	1111475-05
2000066-01-001	1111475-11	2000067-43	1111475-03	2000100-11	1111430-11
2000067-01	1111475-01	2000067-45	1111475-05	2000100-13	1111430-13
2000067-01-001	1111475-01	2000068-03	1111475-03	2000104-03-226	1111475-03
2000067-03	1111475-03	2000083-01-001	1111475-01	2000104-23-001	1111475-03
2000067-05	1111475-05	2000083-03-001	1111475-03	2000104-23-226	1111475-03
2000067-11	1111475-71	2000091-05-001	1111475-05	2000104-33-226	1111475-03
2000067-13	1111475-73	2000091-15-001	1111475-05	2000104-43-226	1111475-03
2000067-15	1111475-75	2000092-01-001	1111475-01	2000107-05	1111475-05
2000067-21	1111475-01	2000092-03-001	1111475-03	2000107-15	1111475-05
2000067-23	1111475-03	2000097-01	1111475-01	2000107-23	1111475-03
2000067-25	1111475-05	2000097-03	1111475-03	2000107-33	1111475-03

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
2000107-35	1111475-05	2000114-23-001	1111475-03	2000115-113	1111475-03
2000108-01-001	1111475-01	2000114-31-001	1111475-01	2000115-115	1111475-05
2000108-03-001	1111475-03	2000114-41-001	1111475-01	2000115-121	1111475-01
2000108-11-001	1111475-01	2000114-43-001	1111475-03	2000115-123	1111475-03
2000108-13-001	1111475-03	2000114-51-001	1111475-01	2000115-125	1111475-05
2000108-15-001	1111475-05	2000114-53-001	1111475-03	2000115-13	1111475-03
2000111-01	1111475-01	2000114-61-001	1111475-01	2000115-21	1111475-01
2000111-03	1111475-03	2000114-71-001	1111475-01	2000115-23	1111475-03
2000114-01-001	1111475-01	2000114-73-001	1111475-03	2000115-31	1111475-01
2000114-03-001	1111475-03	2000115-01	1111475-01	2000115-33	1111475-03
2000114-05-001	1111475-05	2000115-03	1111475-03	2000115-41	1111475-01
2000114-11-001	1111475-01	2000115-101	1111475-01	2000115-43	1111475-03
2000114-13-001	1111475-03	2000115-103	1111475-03	2000115-51	1111475-11
2000114-15-001	1111475-05	2000115-11	1111475-01	2000115-53	1111475-13
2000114-21-001	1111475-01	2000115-111	1111475-01	2000115-55	1111475-15

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**Table 1 (Continued)**  
*Affected Restraint System PNRs*

<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>	<b>Restraint Systems PNR</b>	<b>Buckle Assembly PNRs</b>
2000115-61	1111475-01	2100023-01-001	1111475-01	2100025-01-104	1111475-01
2000115-63	1111475-03	2100023-01-048	1111475-01	2100025-01-243	1111475-01
2000115-71	1111475-01	2100023-01-136	1111475-01	2100025-03-001	1111475-03
2000115-73	1111475-03	2100023-03-001	1111475-03	2100025-03-066	1111475-03
2000115-81	1111475-01	2100023-05-001	1111475-05	2100025-03-104	1111475-03
2000115-83	1111475-03	2100023-05-136	1111475-05	2100025-03-243	1111475-03
2000115-91	1111475-01	2100023-11-001	1111475-05	2100025-11-001	1111475-01
2000115-93	1111475-03	2100023-11-141	1111475-01	2100025-13-001	1111475-03
2000115-95	1111475-05	2100023-13-001	1111475-03	2100054-05-001	1111475-05
2000124-103-001	1111475-03	2100023-13-141	1111475-03	Blank	Blank
2000124-21-001	1111475-01	2100023-15-001	1111475-05	Blank	Blank
2000124-23-001	1111475-03	2100023-21-058	1111475-01	Blank	Blank
2000124-31-001	1111475-01	2100023-23-058	1111475-03	Blank	Blank
2100011-01	1111475-01	2100025-01-001	1111475-01	Blank	Blank
2100011-03	1111475-03	2100025-01-066	1111475-01	Blank	Blank

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**Table 2***Applicable PNR 1111430-XX and PNR 1111475-XX Buckle Assemblies*

<b>Buckle Assembly PNRs</b>	<b>Description</b>
1111430-11	ROTARY BUCKLE ASSY
1111430-13	ROTARY BUCKLE ASSY
1111430-15	ROTARY BUCKLE ASSY
1111430-31	ROTARY BUCKLE ASSY
1111430-33	ROTARY BUCKLE ASSY
1111430-35	ROTARY BUCKLE ASSY
1111430-51	ROTARY BUCKLE ASSY
1111430-53	ROTARY BUCKLE ASSY
1111430-55	ROTARY BUCKLE ASSY
1111475-01	ROTARY BUCKLE, BLACK, RH, GUARDED
1111475-03	ROTARY BUCKLE, BLACK, LH, GUARDED
1111475-05	ROTARY BUCKLE, BLACK, CF, GUARDED
1111475-11	ROTARY BUCKLE ASSY
1111475-13	ROTARY BUCKLE ASSY
1111475-15	ROTARY BUCKLE ASSY
1111475-65	ROTARY BUCKLE ASSY
1111475-71	ROTARY BUCKLE ASSY (RH FIXED)
1111475-73	ROTARY BUCKLE ASSY (LH FIXED)
1111475-75	ROTARY BUCKLE ASSY (CROTCH FIXED)
1111475-81	ROTARY BUCKLE
1111475-83	ROTARY BUCKLE
1111475-85	ROTARY BUCKLE

B. Applicability

- (1) Owners or operators of Parker Meggitt Restraint Systems [Pacific Scientific HTL] using specific configurations of Buckle Assembly Part Numbers 1111430-XX and 1111475-XX (refer to Table 1 and Table 2)

C. Concurrent Requirements

- (1) Not applicable.

D. Reason

- (1) SUMMARY :
  - (a) This SB informs operators that for a limited manufacturing time period, the guarded rotary buckle plastic handles (specific configurations of PNR 1111430-XX and PNR 1111475-XX) were susceptible to cracking.
  - (b) Parker Meggitt received field reports in 2006/2007 of several instances of cracking on the guarded rotary buckle plastic handle. The buckle assemblies were returned to and examined by Parker Meggitt had large, readily apparent cracks throughout the plastic buckle handle.
  - (c) After the initial incidence, there have been no indications of reported field failures. The condition has only appeared as infant mortality.

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### E. Description

#### (1) DISCUSSION :

- (a) The FAA issued a supplemental notice of proposed rulemaking (SNPRM) to amend 14 CFR part 39 by adding an AD that would apply to Pacific Scientific Company buckle part numbers 1111430 and 1111475, all dash numbers. The SNPRM published in the Federal Register on September 24, 2020 (85 FR 60100). The FAA preceded the SNPRM with a notice of proposed rulemaking (NPRM) that published in the Federal Register on September 5, 2013 (78 FR 54594).
- (b) The NPRM proposed to require inspecting each buckle for a crack and the thickness of the buckle handle vane. Depending on the inspection results, the NPRM proposed to require replacing the buckle. The NPRM also proposed to prohibit installing an affected buckle on any helicopter or airplane. The SNPRM proposed to the same requirements except with longer compliance times to accomplish the inspections.
- (c) The SNPRM also corrected the name of Pacific Scientific Aviation Services to Pacific Scientific Company, updated the estimated costs of compliance, edited the Applicability paragraph by adding a note to clarify that an affected buckle could be included as a component of a different part-numbered restraint system assembly and reference Appendix 1 of Pacific Scientific SB 25-1111432, dated May 22, 2007 (SB 25-1111432), which lists the PNRs of potentially affected restraint systems, updated the names of certain potentially-affected Type Certificate holders, and updated the contact information name and contact information from Pacific Scientific Aviation Services to Parker Meggitt Aftermarket Services.
- (d) The NPRM was prompted by EASA AD 2007-0256, dated September 19, 2007, issued by EASA, which is the Technical Agent for the Member States of the European Union, to correct a potential unsafe condition for certain Pacific Scientific Company Seat Restraint System with Rotary Buckle Plastic Handles. According to EASA, Pacific Scientific Company reported several instances of cracked handles on certain buckles with a date of manufacture from November 2004 through May 2007. Testing on buckles with a cracked handle indicated that in some circumstances, a load placed on the restraint system prevents a strap from releasing as intended when the buckle handle is rotated.

#### (2) SUMMARY :

- (a) In review and analysis of the evidences and data gathered from the investigation, Parker Meggitt had determined that this cracking is caused by a material process issue, and suspect handles are subject to removal from service in 2007.

#### (3) CONCLUSION AND CORRECTIVE ACTIONS :

- (a) Based on the analysis, Parker Meggitt had concluded that cracked plastic handles indicates that in some circumstances when a load is placed on the

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restraint system, the straps may not release as intended when the buckle is rotated. Parker Meggitt recommends the immediate replacement of the affected buckle assemblies.

- (b) Buckles produced or repaired after May 2007 are marked with a BLUE logo on the center button. These buckles are acceptable and inherently compliant to FAA AD 2021-07-13 per AMOC dated June 29, 2021, and therefore do not require replacement or any additional actions.
  - (c) Metal handles are acceptable and inherently compliant to FAA AD 2021-07-13 per AMOC dated June 29, 2021 and do not require replacement.
  - (d) This SB does not affect other types of Pacific Scientific plastic or metal buckle handles.
- (4) SUGGESTED OPERATOR ACTION :

NOTE 1 : Any buckle assembly with a BLUE center logo button is inherently compliant with FAA AD 2021-07-13 per AMOC dated June 29, 2021.

NOTE 2 : The inspection recommendation is only applicable for plastic buckle assemblies with a GOLD or YELLOW center logo. Refer to Figure 2 on page 19 for differences between GOLD or YELLOW center logo buttons and BLUE center logo buttons.

- (a) Operators should refer to Table 1 to check if their used and unused restraint system is applicable to the FAA AD 2021-07-13 per AMOC dated June 29, 2021. This also applies to restraint systems in storage.
- (b) Operators should check if their buckle assembly has a BLUE center logo button. If so, then the buckle assembly is inherently compliant with FAA AD 2021-07-13 per AMOC dated June 29, 2021.





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- (c) Operators that are not able to verify the above conditions (a) or (b), should inspect each buckle assembly included in Table 2 to identify whether the handle is compliant to FAA AD 2021-07-13 per AMOC dated June 29, 2021. Refer to paragraph B. on page 18 for inspection instructions.

NOTE : Any buckle assemblies with a cracked handle vane should be removed from service immediately.

- (d) Inspect the buckle for one or more of the following conditions :
- 1 The thickness of the handle vane is greater than 0.125 inches at the top edge
  - 2 The buckle assembly is cracked
  - 3 The buckle assembly is not cracked, but contains a GOLD or YELLOW center logo with handle vane greater than 0.125 inches in thickness at the top edge
- (e) If the buckle meets one or more of the conditions in step (d), the following actions are required :
- 1 Remove the buckle assembly and return to Parker Meggitt for Overhaul/SB Application. Refer to paragraph 4.D. for disassembly.
  - 2 Remove the restraint assembly and return to Parker Meggitt for Overhaul/SB Application.
  - 3 Replace the buckle assembly or restraint assembly with a spare, new, or repaired compliant buckle assembly or restraint assembly.
  - 4 Contact Parker Meggitt for return instructions.

## 2. INDUSTRY SUPPORT STATEMENTS

### A. Warranty Information

- (1) These buckle assemblies are no longer in warranty.

### B. Compliance

- (1) Compliance with this SB is mandatory for the restraint systems which contain suspect handles as per FAA AD 2021-07-13 per AMOC dated June 29, 2021.

### C. Approval

- (1) This SB has been reviewed and approved by FAA.

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D. Manpower

- (1) The manpower estimate is for direct labor only. The estimate does not include lost time.
- (2) Adjust the estimate with operator man-hour data if necessary.
- (3) The time required for the inspection described in section 4.B. of this SB is estimated to be :
  - (a) 0.1 man-hours to inspect and replace the buckle assembly from the system.

E. Weight and Balance

- (1) Not applicable.

F. Electrical Load Data

- (1) Not applicable.

G. Software Accomplishments Summary

- (1) Not applicable.

H. References

- (1) Not applicable.

I. Other Publications Affected

- (1) ACMM 25-11-59

J. Interchangeability

- (1) Not applicable.



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**3. MATERIAL INFORMATION**

- A. Material – Price and Availability
  - (1) The replacement buckle assembly will not be provided free of charge.
  - (2) Please contact Parker Meggitt for information regarding parts availability.
- B. Industry Support Information – Warranty
  - (1) Restraint systems returned for repair will have the affected buckle replaced at cost.
  - (2) There are no additional warranty provisions related to this bulletin.
- C. Material Necessary for Each Component
  - (1) Not applicable.
- D. Material Necessary for Each Spare
  - (1) Not applicable.
- E. Re-identified Parts / Existing Parts Accountability
  - (1) No mandatory re-identification of parts is required upon inspection and/or modification, however, each individual operator may mark the buckles according to their own quality system standards.
- F. Special Tooling – Price and Availability
  - (1) Not required.
- G. Special Tooling necessary to do this SB
  - (1) (Optional) Inspection Tool PNR 1111432-GA. Refer to Figure 5 on page 21.

#### **4. ACCOMPLISHMENT INSTRUCTIONS**

##### **A. General Notes**

- (1) Follow the instructions in paragraph B. to check for a suspect buckle assembly.
- (2) Follow the instructions in paragraph C. to replace a suspect buckle assembly.

##### **B. Check for Suspect Buckle Assembly**

NOTE 1 : Suspect handles may also be identified by measuring the thickness of the handle vane. Refer to Figure 1 as an example of a suspect buckle assembly with a crack.

NOTE 2 : Inspection is only applicable for buckle assemblies with a GOLD or YELLOW center logo button. Refer to Figure 2 on page 19 for the differences between the BLUE and GOLD/YELLOW buttons. If buckle assembly has a BLUE center logo button, then the buckle assembly is inherently compliant with FAA AD 2021-07-13 per AMOC dated June 29, 2021.



**Figure 1**  
*PNR 1111430-XX and PNR 1111475-XX Suspect Buckle Assembly*

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**FACTORY REWORKED HANDLE HAS  
BLUE LOGO BUTTON : INHERENTLY COMPLIANT**



**HANDLE HAS YELLOW OR GOLD  
BUTTON : REQUIRES INSPECTION**

**Figure 2**  
*Blue and Yellow/Gold Logo*

- (1) Measure the handles in accordance with Figure 3 on page 20 and Figure 4 on page 20 to make sure the handles are less than 0.125 inches at the top edge. Parker Meggitt has created an optional inspection tool (PNR 1111432-GA). Contact Parker Meggitt for purchase of the inspection tool. Refer to Figure 5 on page 21 for correct use of the optional inspection tool.

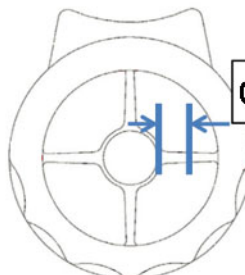
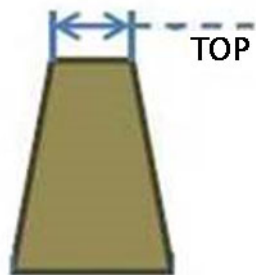
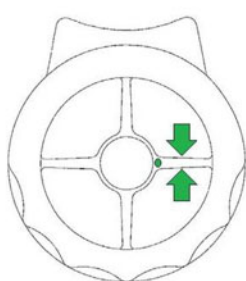
NOTE 1 : Acceptable parts will have a vane dimension LESS than or equal to 0.125 inch at the top edge.

NOTE 2 : If using an inspection tool, make sure the tool fits over the vanes and the center is flushed to the button.

- (2) If the thickness of the handle vane is greater than 0.125 inches at the top edge, then the buckle assembly is not compliant to FAA AD 2021-07-13 per AMOC dated June 29, 2021.



**Figure 3**  
*Correct Buckle Measurement*



**ACCEPTABLE HANDLE**

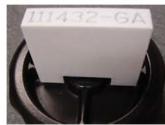
**SUSPECT HANDLE**

**ACCEPTABLE HANDLE:  
LESS THAN OR  
EQUAL TO 0.125 INCH**



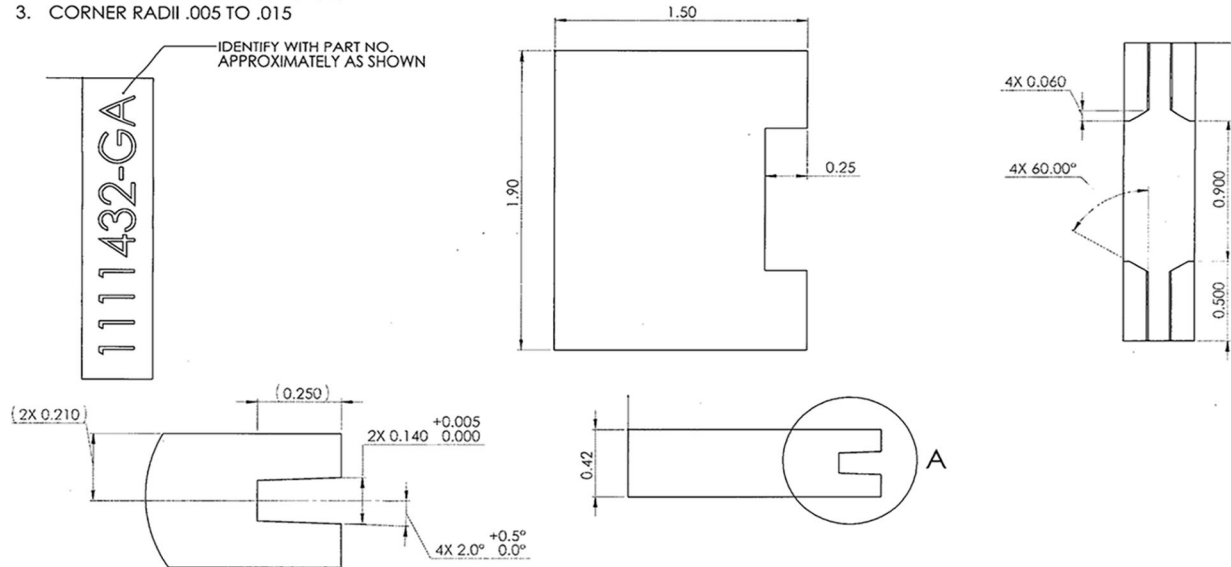
**Figure 4**  
*PNR 1111430-XX and PNR 1111475-XX Suspect Buckle Assembly*

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## OPTIONAL INSPECTION TOOL FITS OVER VANES CENTER IS FLUSH TO BUTTON

1. MATERIAL: NYLON, DELRIN, ASA, OR OTHER SIMILAR 3D PRINTED MATERIAL
2. BREAK SHARP EDGES .005 TO .015
3. CORNER RADII .005 TO .015



**Figure 5**  
*Optional Inspection Tool PNR 1111432-GA*

### C. Corrective Action for Suspect Buckle Assembly

- (1) Remove and replace the restraint system with a spare.
- (2) Refer to the paragraph 4.D. and 4.E. for disassembly and assembly of restraint system to repair the removed restraint system :
  - (a) Remove the buckle assembly in accordance with Figure 6 on page 23.
  - (b) Replace the suspect buckle assembly with a new and compliant unit.

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- (3) For repair of buckle assemblies or restraint systems, send affected units to one of the following locations for replacement. Refer to Table 3.

**Table 3**  
*Parker Meggitt Aftermarket Services*

<b>Worldwide Support :</b>	
<b>Parker Meggitt Aftermarket Services</b> 11700 NW 102 <sup>nd</sup> Road Suite 6 Miami, FL 33178 USA	Phone : + 1 305 477 4711 Ext. 260 / 229 FAX : + 1 305 477 9799 Email : <a href="mailto:CX.USA@meggitt.com">CX.USA@meggitt.com</a>
<b>Parker Meggitt Aerospace Asia Pacific Pte Ltd</b> 1A Seletar Aerospace Link Singapore 797552	Phone : + 65 6511 7200 DID : + 65 6511 6282 Email : <a href="mailto:CX.APAC@meggitt.com">CX.APAC@meggitt.com</a>
<b>Parker Meggitt - Service and Support</b> Ansty Business Park Pilot Way Coventry CV7 9JU United Kingdom	Phone : + 44 2477 708 7299 Email : <a href="mailto:CX.EMEA@meggitt.com">CX.EMEA@meggitt.com</a>

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## SERVICE BULLETIN

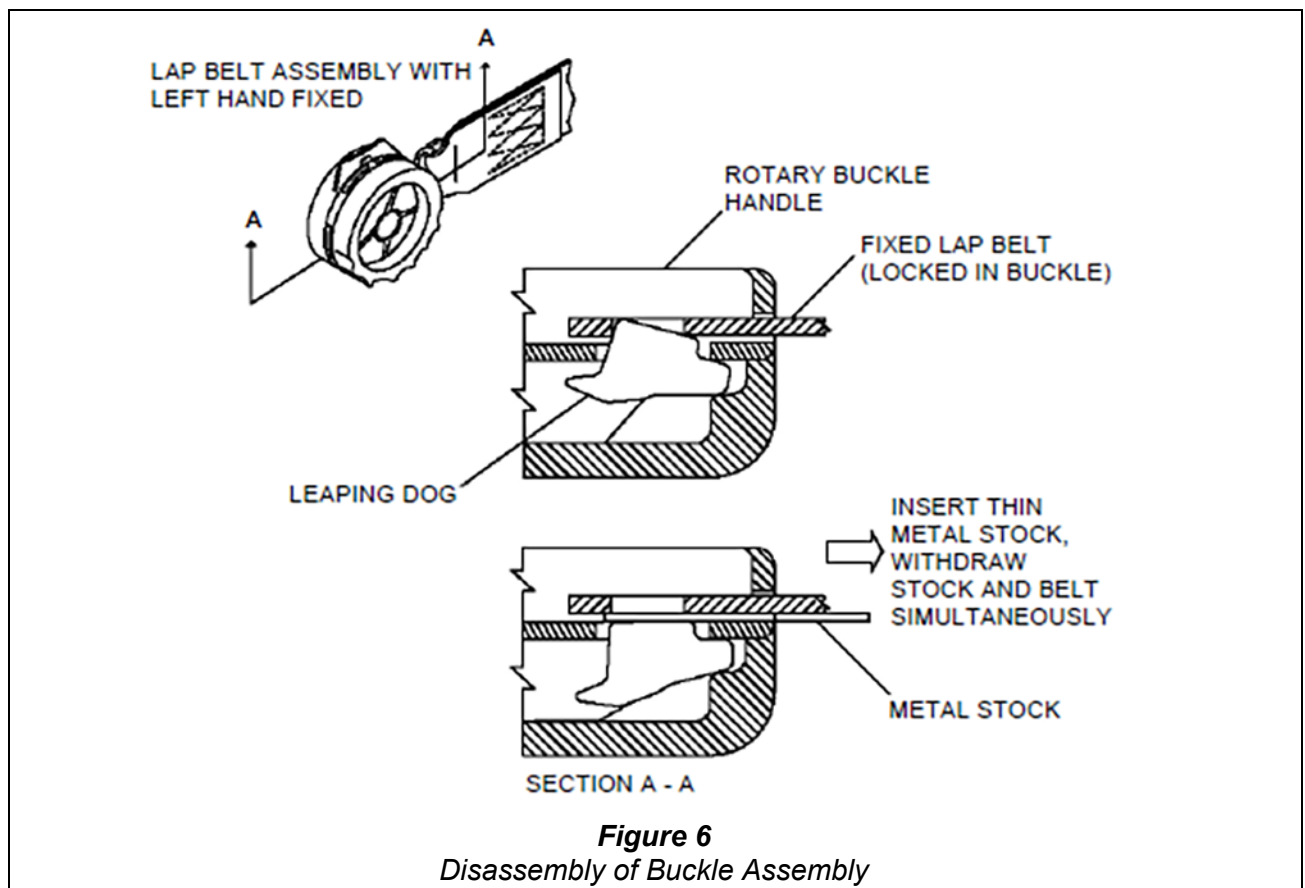
### D. Disassembly

- (1) Insert a piece of thin metal stock into the slot of the rotary buckle and push inward between the fitting and the buckle locking mechanism (refer to Figure 6).
- (2) Pull the fitting from the buckle.
- (3) Remove the buckle pad as necessary.

### E. Assembly

- (1) Insert lap belt fitting into new buckle.

NOTE : Fixed strap location is indicated by appropriate marking on buckle housing.



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F. Assistance

- (1) For assistance on this SB information, requests for further information, or spare parts purchasing, please contact Parker Meggitt Customer Support. Refer to Table 4.

**Table 4**  
*Parker Meggitt Customer Support*

Worldwide Support :	
Parker Meggitt Customer Services and Support 11700 NW 102 <sup>nd</sup> Road Suite 6 Miami FL 33178 USA	Phone : + 1 305 477 4711 Ext. 260 or 229 E-mail : <a href="mailto:CX.USA@meggitt.com">CX.USA@meggitt.com</a>