SERVICE BULLETIN

FROM : PARKER MEGGITT TECHNICAL PUBLICATIONS

TO : HOLDERS OF SB 1111548-25-001-2023 FOR THE RESTRAINT SYSTEM ROTARY BUCKLE WITH PNR 1111548-01

TRANSMITTAL SHEET

REVISION 001
dated Dec 01/23

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

Chapter/Section Page No.	Description of Change	Effectivity
1	Updated paragraphs 1.A.(1). and 1.A.(3).	—
2	Modified 'Date of Manufacturer (DOM)' to 'Date of Manufacture (DOM). Updated paragraph 1.B.(2).	—
6	Updated paragraph 1.D.(3). Added ‘Front View’ and ‘Back View’ text in Figure 1.	—
7	Deleted step (a) from Conclusion and Corrective Actions.	—
8	Added more inspection criteria in Suggested Operation Action section.	—
9	Updated flowchart (Figure 2).	—
10	Replaced ‘faulty screws’ with ‘suspect screws’. Updated Warranty Information. Replaced ‘reassembly’ with ‘reassemble’.	—
11	Updated Other Publications Affected.	—
12	Updated 3.A. Added website link. Added note under Material Necessary for Each Component. Updated Re-identified Parts / Existing Parts Accountability.	—
13	Updated formatting of section 4.B. Revised inspection procedure.	—
15	Updated Figure 6.	—
17	Replaced ‘faulty screws’ with ‘suspect screws’. Added note and reference to figure.	—

Chapter/Section Page No.	Description of Change	Effectivity
18	Updated formatting and changed CAUTION statement to WARNING statement. Added notes and metric units. Updated title of Figure 9.	—
19	Added reference to figure.	—
20	Updated 4.D.(1).(l).1. Added equivalent tools can be used. Modified to ‘belt clip’.	—
21	Updated “MOD. A” instructions. Added reference to Figure 4 in Installation of Rotary Buckles section. Updated title of Figure 12.	—
22 to 23	Added reference to Table 3. Added new instructions to return damaged buckle assemblies. Added Tables 3 and 4.	—

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SERVICE BULLETIN

CHAPTER 25 - EQUIPMENT/FURNISHINGS

Information Regarding Screw Inspection for the

Restraint Systems

with PNR 1111548-01 Rotary Buckles

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1. PLANNING INFORMATION

A. Effectivity

(1) This Service Bulletin (SB) covers all restraint systems with PNR 1111548-01 rotary buckles, which may contain suspect screws. According to Parker Meggitt records, the restraint systems and buckle assemblies subject to this SB are shown in Table 1 on page 3.

(2) This SB will provide details for inspection and if required, replacement of suspect screws used in the rotary buckles of the restraint systems. This SB includes tooling information, illustrations, and contact information.

(3) This SB is not applicable to new original equipment manufacturer (OEM) production units being delivered now, or to any units manufactured before January 2012 or after September 2012.

B. Applicability

(1) Owners or operators of Parker Meggitt [Pacific Scientific / HTL] Restraint Systems that use PNR 1111548-01 rotary buckle assembly that have a Date of Manufacture (DOM) between January 2012 and September 2012.

(2) This SB does not apply to new production units manufactured before January 2012 or after September 2012. New production units do not contain the suspect screws.

(3) This SB applies to all parts on-wing or in inventory that fall within the specified DOM ranges.

C. Concurrent Requirements

(1) Not applicable.

Table 1

Restraint Systems with Rotary Buckle PNR 1111548-01

Restraint Systems PNR		
1111171-03-001	1117556-200-136	1117556-200-233
1117556-200-001	1117556-200-141	1117556-200-234
1117556-200-001AAY	1117556-200-141AAD	1117556-200-243
1117556-200-034	1117556-200-141AAE	1117556-200-245
1117556-200-044	1117556-200-141AAG	1117556-200-245AAF
1117556-200-044AAE	1117556-200-141AAH	1117556-200-245AAR
1117556-200-044AAJ	1117556-200-141AAN	1117556-200-258AAE
1117556-200-044AAV	1117556-200-141AAU	1117556-200-276
1117556-200-046	1117556-200-141ABA	1117556-200-277
1117556-200-048	1117556-200-147	1117556-200-277ABB
1117556-200-058	1117556-200-183	1117556-200-278
1117556-200-059	1117556-200-184	1117556-200-293
1117556-200-059AAJ	1117556-200-201AAE	1117556-400-001
1117556-200-059AAK	1117556-200-203	1117556-400-226
1117556-200-059AAL	1117556-200-203AAF	1117556-400-248
1117556-200-059AAM	1117556-200-203AAG	1117556-600-001
1117556-200-059AAN	1117556-200-220	2000084-13-034
1117556-200-059AAP	1117556-200-220AAE	2000304-05-034
1117556-200-059AAT	1117556-200-223	2100002-01-001
1117556-200-059AAV	1117556-200-224	2100002-01-001-AAY
1117556-200-063AAE	1117556-200-225	2100002-01-034
1117556-200-063AAJ	1117556-200-225058	2100002-01-044
1117556-200-063AAT	1117556-200-226	2100002-01-044-AAE
1117556-200-065	1117556-200-227	2100002-01-044-AAJ
1117556-200-066	1117556-200-228	2100002-01-044-AAV
1117556-200-104	1117556-200-230	2100002-01-048
1117556-200-129	1117556-200-231	2100002-01-058

Table 1 *(Continued)*
Restraint Systems with Rotary Buckle PNR 1111548-01

Restraint Systems PNR		
2100002-01-059	2100002-01-201-AAE	2100002-05-226
2100002-01-059-AAJ	2100002-01-203	2100002-05-248
2100002-01-059-AAK	2100002-01-203-AAF	2100002-07-001
2100002-01-059-AAL	2100002-01-203-AAG	2100002-200-001
2100002-01-059-AAM	2100002-01-220	2100002-200-001AAY
2100002-01-059-AAN	2100002-01-220-AAE	2100002-200-034
2100002-01-059-AAP	2100002-01-223	2100002-200-044
2100002-01-059-AAT	2100002-01-224	2100002-200-044AAE
2100002-01-059-AAV	2100002-01-225	2100002-200-044AAJ
2100002-01-063-AAE	2100002-01-225-058	2100002-200-044AAV
2100002-01-063-AAJ	2100002-01-226	2100002-200-046
2100002-01-063-AAT	2100002-01-227	2100002-200-048
2100002-01-065	2100002-01-230	2100002-200-058
2100002-01-066	2100002-01-231	2100002-200-059
2100002-01-104	2100002-01-233	2100002-200-059AAJ
2100002-01-129	2100002-01-234	2100002-200-059AAK
2100002-01-136	2100002-01-243	2100002-200-059AAL
2100002-01-141	2100002-01-245	2100002-200-059AAM
2100002-01-141-AAD	2100002-01-245-AAF	2100002-200-059AAN
2100002-01-141-AAE	2100002-01-245-AAR	2100002-200-059AAP
2100002-01-141-AAG	2100002-01-258-AAE	2100002-200-059AAT
2100002-01-141-AAH	2100002-01-276	2100002-200-059AAV
2100002-01-141-AAN	2100002-01-277	2100002-200-063AAE
2100002-01-141-AAU	2100002-01-277-ABB	2100002-200-063AAJ
2100002-01-141-ABA	2100002-01-278	2100002-200-063AAT
2100002-01-147	2100002-01-293	2100002-200-065
2100002-01-184	2100002-05-001	2100002-200-066

Table 1 *(Continued)*
Restraint Systems with Rotary Buckle PNR 1111548-01

Restraint Systems PNR		
2100002-200-104	2100002-200-203AAG	2100002-200-245AAF
2100002-200-129	2100002-200-220	2100002-200-245AAR
2100002-200-136	2100002-200-225	2100002-200-258AAE
2100002-200-141	2100002-200-225058	2100002-200-276
2100002-200-141AAD	2100002-200-226	2100002-200-277
2100002-200-141AAE	2100002-200-227	2100002-200277ABB
2100002-200-141AAG	2100002-200-228	2100002-200-278
2100002-200-141AAH	2100002-200-230	2100002-200-293
2100002-200-141AAN	2100002-200-220AAE	2100002-600-001
2100002-200-141AAU	2100002-200-223	2100002-600-226
2100002-200-141ABA	2100002-200-224	2100002-600-248
2100002-200-147	2100002-200-231	2100002-800-001
2100002-200-184	2100002-200-233	2100024-01-277
2100002-200-201AAE	2100002-200-234	2100063-01-201
2100002-200-203	2100002-200-243	Blank
2100002-200-203AAF	2100002-200-245	Blank

D. Reason

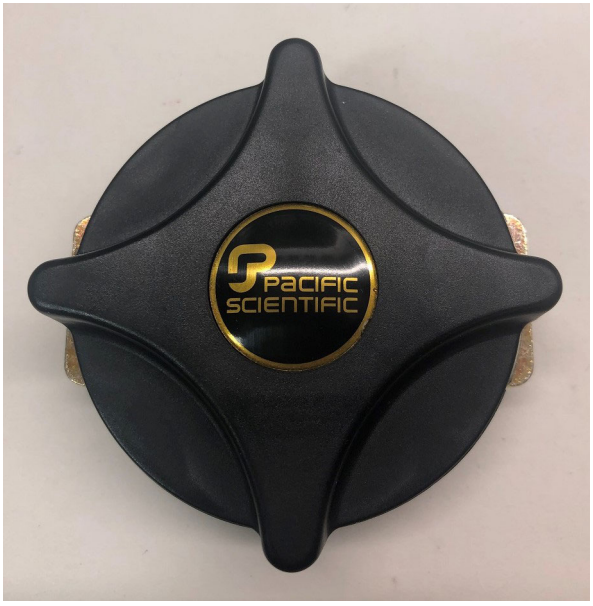
(1) In 2012 a specific lot of PNR 0901101-123 screws were improperly zinc chromate plated. The manufacturing issue resulted in the screws becoming brittle. Evidence has shown that the screw heads can break-off under load creating an unsafe condition and improper function of the Rotary Buckle used on the Restraint System.

(2) Screws (PNR 0901101-123) used on restraint systems rotary buckles (PNR 1111548-01) are susceptible to premature failure of the screw.

(3) Parker Meggitt has received field reports of cracked and missing screw heads. Figure 1 on page 6 shows a disassembled rotary buckle PNR 1111548-01 with potentially suspect Torx head screws.

NOTE : In most cases, the broken screw head will be missing and not immediately obvious. Inspection per section 4.B. is required to determine whether a buckle has broken screws.

Front View



Back View

Figure 1
PNR 1111548 Series Rotary Buckle

E. Description

(1) Summary :

(a) In review and analysis of the evidence and data gathered from an investigation, Parker Meggitt has determined that restraint systems with the rotary buckles in question require inspection in order to validate the presence and integrity of the screw heads inside the buckle.

(2) Conclusion and Corrective Actions :

(a) A buckle assembly design change in July 2013 introduced a hex stainless steel screw (PNR 0901101-149). These screws are a different material, and have a different screw head, which makes them visually distinguishable from the previous part number.

(3) Suggested Operator Action :

(a) Refer to the flowchart in Figure 2 on page 9.

(b) Operators should check all parts in service and inventory that meet the criteria in sections 1.A.& 1.B. This also applies to restraint systems in storage or any restraint system that may have had a buckle replaced with one of these part numbers.

NOTE : Any buckle assemblies with a missing screw head should be removed from service immediately.

(c) Visually inspect the restraint system's rotary buckle to determine the DOM (refer to section 4.A.).

1 Restraint systems with rotary buckles that have a DOM outside of the applicable ranges identified do not require inspection, replacement or any additional actions.

NOTE : Zinc chromate plated screw head type does not relate to the susceptibility to cracking. A design change replaced the zinc chromate plated screws (PNR 0901101-123) with stainless steel screws (PNR 0901101-149) that do not require zinc chromate plating. The new screws happened to have a hex head instead of a Torx head.

(d) If the DOM does fall in the applicable range, visually inspect the rotary buckle to determine whether any of the four screw heads are missing (refer to section 4.B.).

1 Buckles which have any missing screws should be taken out of service immediately. Replace the rotary buckle with a spare compliant rotary buckle and send the broken item back to Parker Meggitt for repair or replacement (refer to section 4.F.).

(e) If the rotary buckle has a broken/loose screw head, the rotary buckle should be removed from service immediately.

1 Replace the rotary buckle with a spare compliant rotary buckle and send the broken item back to Parker Meggitt for repair or replacement (refer to section 4.F.).

(f) If the four screw heads are intact, visually inspect the restraint system's rotary buckle to determine whether the screws have Torx heads (PNR 0901101-123) or hex heads (PNR 0901101-149) (refer to section 4.B.).

1 Buckles which have the suspect Torx head screws (PNR 0901101-123) that are still intact, should have the screws replaced with the hex head screws (PNR 0901101-149) per the instructions in this SB at a time convenient to the operator.

NOTE : It is possible that a hex head scew was installed in the suspect time period (January 2012 to September 2012). These hex screws may be left in service.

(g) This SB does not affect restraint systems which use other types of Parker Meggitt [Pacific Scientific] buckles.

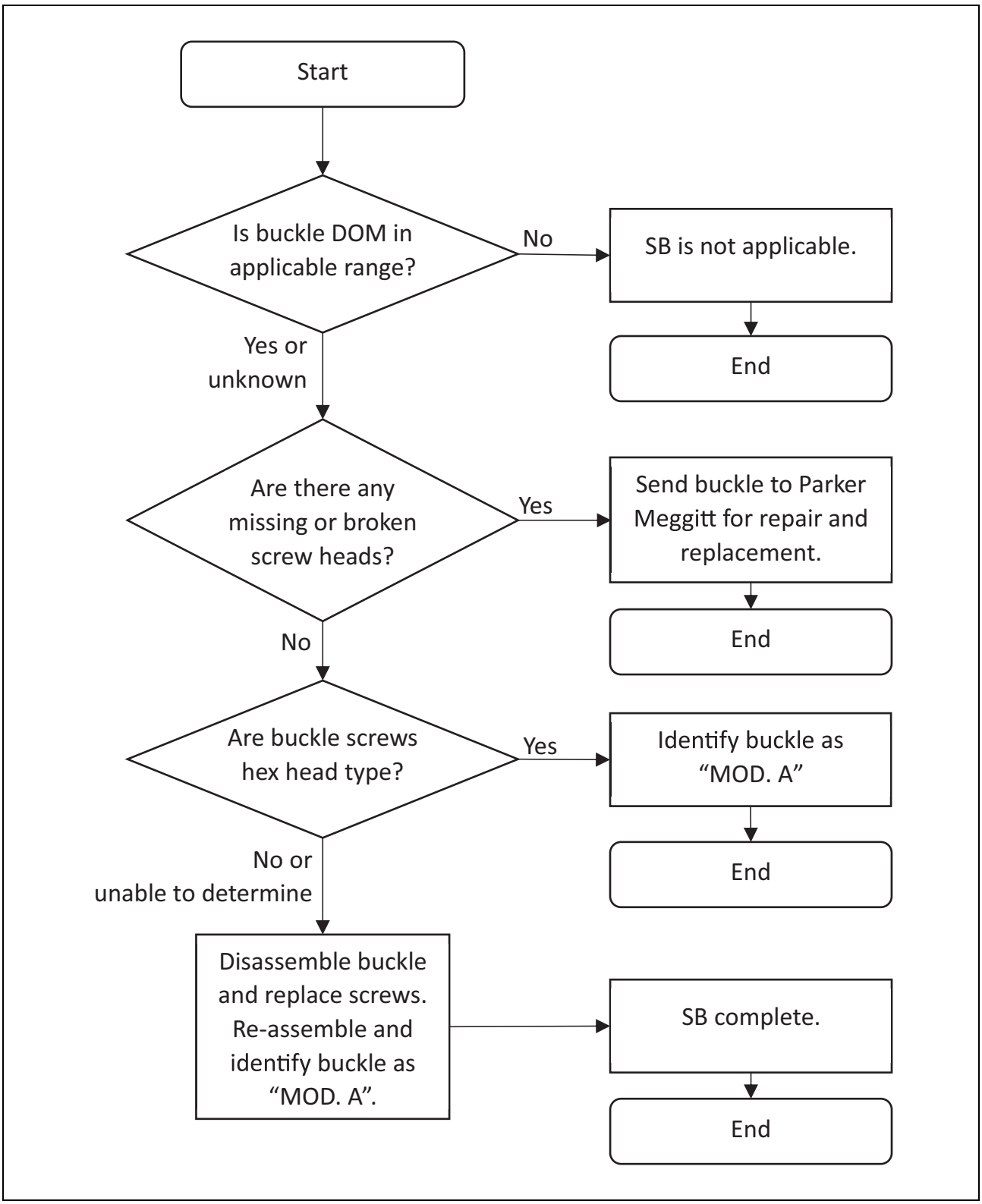


Figure 2
Flowchart of Required Operator Action

2. INDUSTRY SUPPORT STATEMENTS

A. Warranty Information

(1) The manufacturing issue that resulted in the suspect screws occurred in 2012. Restraints that use PNR 1111548-01 buckle assemblies that were manufactured during the specified time period are no longer in warranty.

(2) Parker Meggitt will provide the replacement screws (PNR 0901101-149, Qty = 4) free of charge.

(3) Rotary buckles or restraint systems returned to Parker Meggitt with more damages or repairs outside the described warranty coverage of the SB 1111548-25-001-2023 will be chargeable scope.

B. Compliance

(1) Compliance with this SB is mandatory for the restraint system rotary buckles with PNR 1111548-01 that meet the applicability requirement (refer to section 1.B.).

C. Approval

(1) Not applicable.

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 procedures described in section 4. of this SB is estimated to be :

(a) 0.1 man-hour to inspect and replace the rotary buckle from the restraint system.

(b) 0.5 man-hour to disassemble the rotary buckle, replace suspect screws with new screws, and reassemble the rotary buckle.

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) CMM 25-11-82 for rotary buckle assembly PNR 1111548-01.

(2) Restraint CMMs that contain PNR 1111548-01 rotary buckle assemblies, including :

(a) CMM 25-11-53

(b) CMM 25-11-59

J. Interchangeability

(1) Not applicable.

3. MATERIAL INFORMATION

A. Material – Price and Availability

(1) The replacement screws, logo button, and retaining ring will be provided free of charge (FOC).

(2) Please contact Parker Meggitt for information regarding parts availability.

(3) Please visit https://www.meggitt.com/services_and_support/customer_experience/ for updated information regarding this SB.

B. Industry Support Information – Warranty

(1) There are no additional warranty provisions related to this bulletin.

C. Material Necessary for Each Component

NOTE : The following items listed are provided FOC.

(1) Hex Screw, PNR 0901101-149 (Qty = 4)

(2) (As Required) Replacement Logo Button, PNR 1111560-01

(3) (As Required) Replacement Retaining Ring, PNR 0911100-189

D. Material Necessary for Each Spare

(1) Not applicable.

E. Re-identified Parts / Existing Parts Accountability

(1) Buckles with the new screws installed shall be identified as "**MOD. A**". Refer to the procedure below for the marking process. Refer to 4.D.(1).(m) on page 21 for the marking process.

F. Special Tooling – Price and Availability

(1) Not required.

G. Special Tooling necessary to accomplish this SB

(1) No special tooling required.

4. ACCOMPLISHMENT INSTRUCTIONS

A. Determine Applicability

(1) Check the PNR and DOM of the rotary buckle on the restraint system.

(2) If the rotary buckle is PNR 1111548-01 and has a DOM between January 2012 and September 2012, proceed with the screw inspection per section 4.B.

(3) If the DOM is before January 2012 or after September 2012, then the rotary buckle can remain in service with no further actions.

B. Screw Inspection for PNR 1111548-01 Rotary Buckle Assemblies

NOTE : Inspection is only applicable for rotary buckles with DOM listed above.

(1) Use an inspection light to look between the handle and the housing for the presence of two screw heads on both the left side and the right side of the buckle. Refer to Figure 3 on page 14 and Figure 4 on page 14.

(2) If any screw head is not present or is loose in the buckle :

(a) Remove the buckle from service immediately. Refer to the procedure in section C. to remove the buckle from the restraint system.

(b) Replace the buckle with a new item. Refer to the procedure in section E. to install the new buckle in the restraint system.

(c) Send the damaged buckle back to Parker Meggitt for repair. Refer to section F. for contact information.

(3) If the screw heads are intact, do one of the two following methods to determine if the screws are Torx head (alloy steel) or hex head (stainless steel) screws :

(a) Method # 1 - Inspection

1 Use an inspection light (100+ lumens light with eye loupe recommended) and shim to look through the aperture between the handle and the non-rotating portion of the buckle (Figure 5) and inspect the screws to determine whether they have Torx heads or hex heads. The handle will need to be rotated slightly to provide the best view of the two lower screws and fully to view the top screws. All screws will be the same configuration within the affected production window. Refer to Figure 6 on page 15 to distinguish the screw head types.

(b) Method # 2 - Disassembly

1 Disassemble the rotary buckle. Refer to 4.B. on page 13.

2 Reassemble the rotary buckle if the screws have hex heads. Refer to 4.(1) on page 17.

(4) If the screws have Torx heads (PNR 0901101-123), the buckle may remain in service temporarily, but the screws should be replaced as convenient to the operator. Refer to the procedure in section D.(1) to replace the screws.

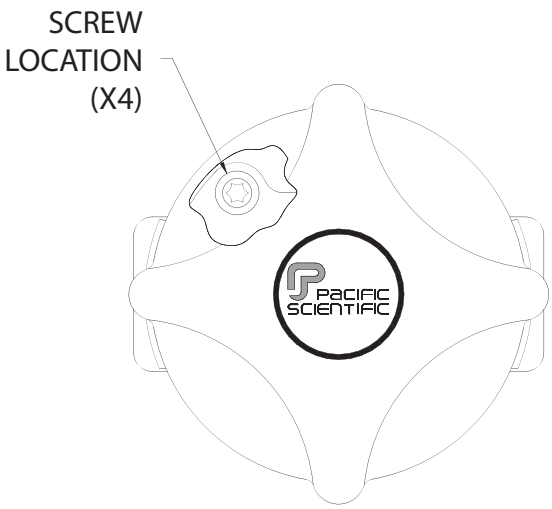


Figure 3
PNR 1111548-01 Rotary Buckle Screw Location

Figure 4
PNR 1111548-01 Rotary Buckle Openings for Inspection

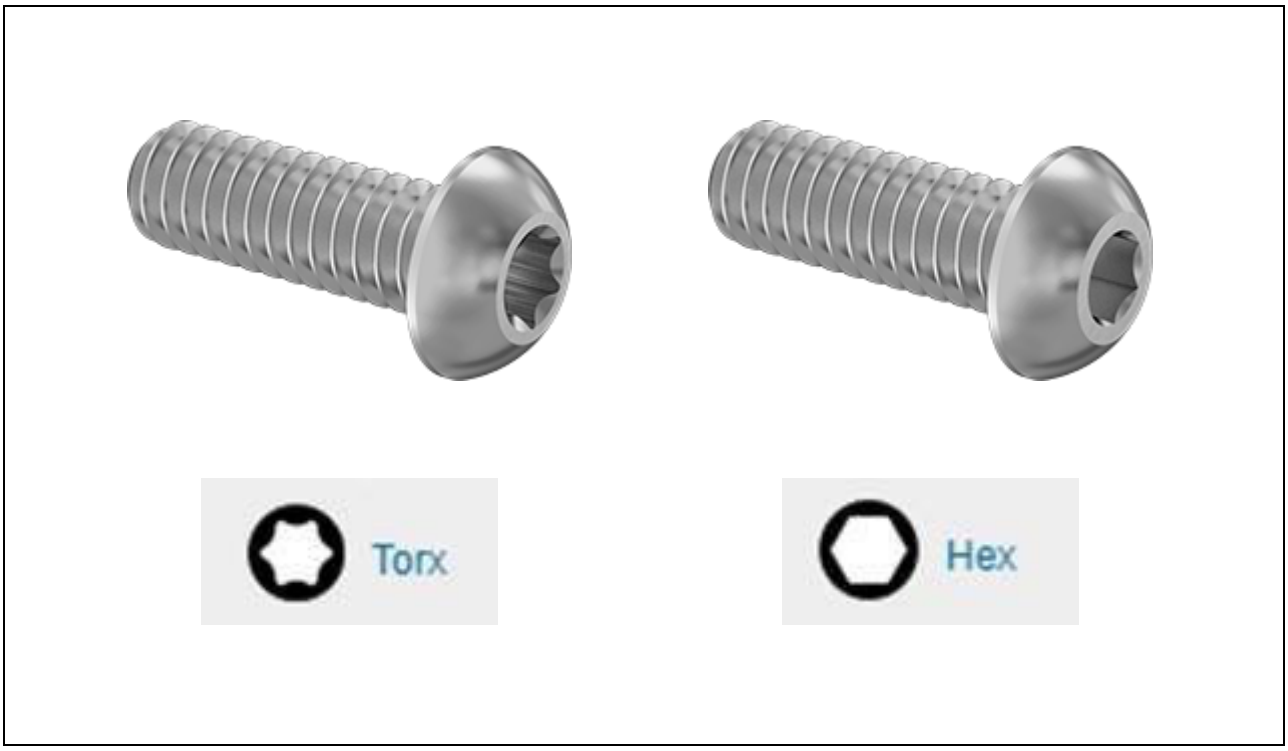


Figure 5
Torx Head Screws vs. Hex Head Screws

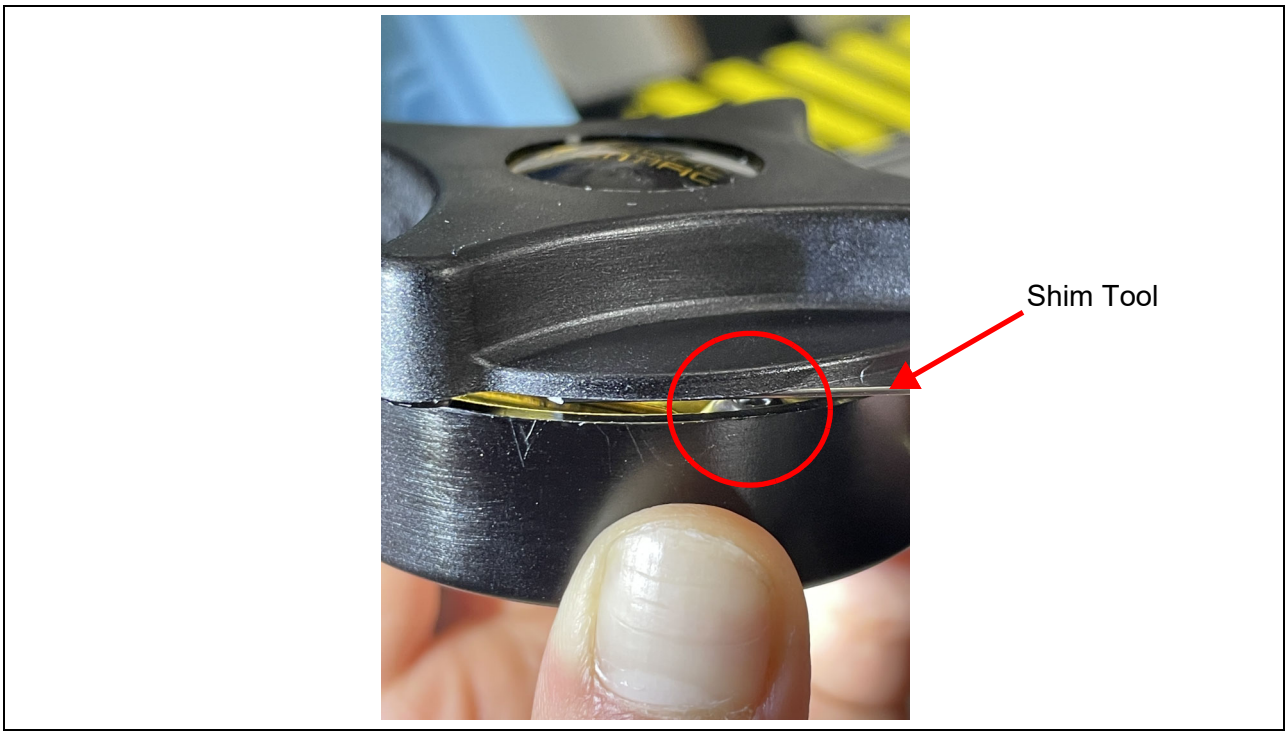


Figure 6
Side Belt Opening Inspection

C. Removal of Rotary Buckles

NOTE : Buckles can be removed from the restraint systems on-aircraft or off-aircraft.

(1) Refer to Figure 7.

(2) 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.

(3) Pull the fitting from the buckle.

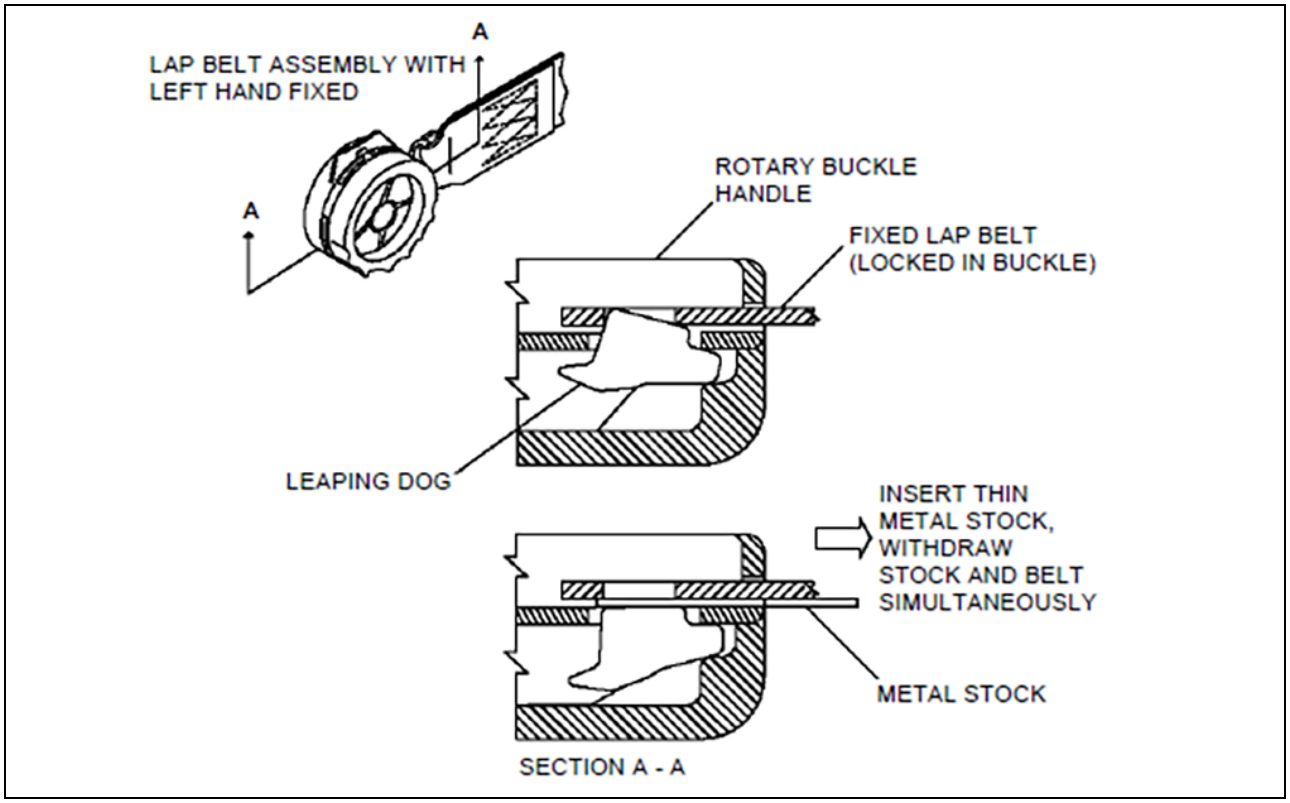


Figure 7
Removal of Rotary Buckle

D. Replace Suspect Screws

(1) Screw Replacement Procedure for PNR 1111548-01 Rotary Buckle Assemblies

(a) Use a pry tool to pry the nameplate button (PNR 1111560-01) free from the buckle. If necessary, pierce the middle of the button (button is soft material). Try to damage the button as little as possible so that it can be used again.

NOTE : An example of the optimal pierce location is shown with a red dot in Figure 8.

(b) Use external retaining ring pliers with Ø.038 tips to remove the retaining ring (PNR 0911100-189). Refer to Figure 10 on page 19.

(c) Remove the mini rotary handle (PNR 1111563-01) from the rotary buckle assembly.

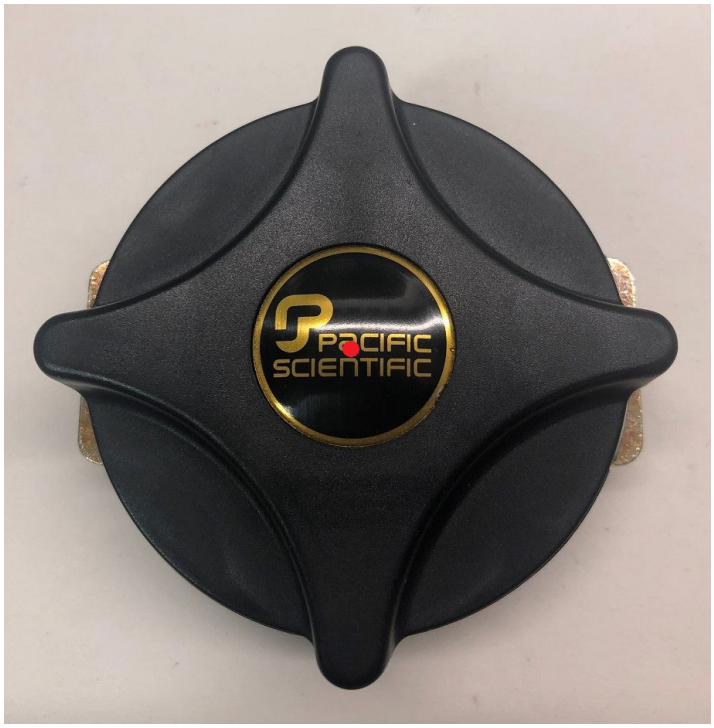


Figure 8
Logo Button Optimal Pierce Location

(d) If the screws are the Torx head type (PNR 0901101-123) (as shown in Figure 9), then replace the screws with the new stainless steel hex head type (PNR 0901101-149) as follows :

WARNING : **DO NOT REMOVE ALL FOUR SCREWS AT THE SAME TIME. REMOVAL OF ALL SCREWS SIMULTANEOUSLY MAKES RE-ASSEMBLY OF THE BUCKLE MUCH MORE DIFFICULT.**

NOTE 1 : If re-assembly of buckle is not possible, return unit to Parker Meggitt.

NOTE 2 : Screws can be removed and installed in any sequence.

1 Use a T15 Torx bit to remove one screw (PNR 0901101-123).

NOTE : If a screw head breaks off during disassembly, return the unit to Parker Meggitt.

2 Use a 3/32 inch (2,4 mm) hex drive bit to install one new screw (PNR 0901101-149).

3 Repeat 1) and 2) for each of the four screws.

4 Torque the four screws (PNR 0901101-149) to 15 to 25 in-lbs (1.69 to 2.82 N-m).

Figure 9
Disassembled Rotary Buckle with Suspect Torx Head Screws

(e) Center the retainer pin (PNR 1111583-01) in the shaft of the cam drive.

(f) Install the mini rotary buckle handle (PNR 1111563-01) on top of the rotary buckle assembly. Make sure that the pin is centered properly. Make sure that the slot in the handle aligns with the retainer pin. Refer to Figure 10.

(g) Open the retaining ring (PNR 0911100-189) with retaining ring pliers just enough to slide the retainer ring onto the shaft of the cam drive. Refer to Figure 10.

(h) Seat the retainer ring in the groove. Make sure that the retainer ring is properly seated in the ring groove. Refer to Figure 10.

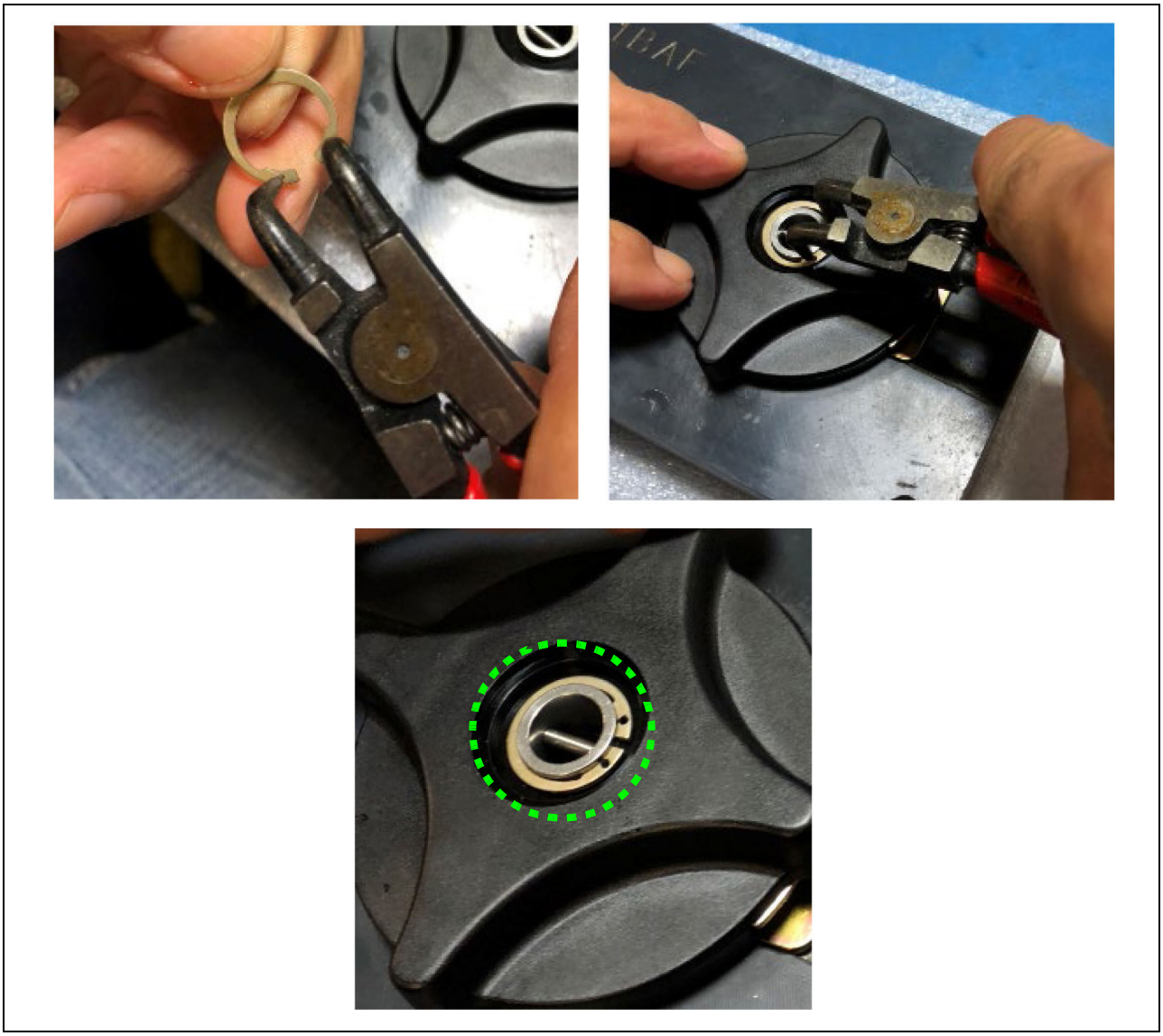


Figure 10
PNR 1111548-01 Rotary Buckle Retaining Ring Removal and Installation

(i) Apply 2 drops of Loctite 430 or equivalent to the outer land area where the logo button will sit of mini rotary handle (PNR 1111563). Refer to green area in Figure 10 on page 19.

(j) Put the buckle in an arbor press or equivalent tool. Put the logo on the center of the buckle, with the “PACIFIC SCIENTIFIC” text levelled evenly with the two plates. Refer to Figure 11.

(k) Hold a 7/16 inch (11 mm) socket in place on the button. Use arbor press or equivalent tool to press the button in place on the buckle.

(l) Check the functionality of the buckle as follows :

1 Rotate the buckle handle fully clockwise and release. Make sure the handle freely self-centers.

2 Repeat in the counter-clockwise direction. Repeat alternating directions for a total of 3 times minimum in each direction. Make sure that the buckle rotates freely in either direction without resistance and the handle must freely self-center

3 Insert a belt clip and shake the unit. Make sure the belt clip stays in the buckle and does not fall out.

4 Install the belt fitting in the non-fixed rotary buckle opening and hold the buckle up so that the belt fitting is vertical and facing downward.

Figure 11
PNR 1111548-01 Rotary Buckle Logo Button Alignment

5 Repeat steps 3 and 4 above releasing the belt fitting by rotating the handle counter-clockwise.

(m) Use a vibro engraving pen to engrave "**MOD. A**" on the back of the rotary buckle to re-identify the rotary buckle. Refer to Figure 12 for an example of the re-identified rotary buckle.

E. Installation of Rotary Buckles

(1) Insert lap belt fitting into new or repaired buckle. Refer to Figure 4 on page 14 for location of lap belt fitting.

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

Figure 12
Re-Identified PNR 1111548-01 Rotary Buckle Assembly with "MOD. A"

F. Instructions to Return Damaged Buckle Assemblies

(1) If a buckle does not pass inspection for broken screw heads, remove the rotary buckle and return to Parker Meggitt for repair or replacement.

NOTE : The entire restraint assembly can also be returned to Parker Meggitt.

(2) Refer to paragraph 4.C. for removal of the existing rotary buckle from the restraint system.

(3) Replace the rotary buckle or restraint assembly with a spare, new, or repaired rotary buckle or restraint assembly.

(4) Refer to paragraph 4.E. for assembly of the new buckle to the restraint system.

(5) For repair of buckle assemblies or restraint systems, send affected units to one of the following locations for replacement. Refer to Table 2 or Table 3.

(6) For existing customers of Parker Meggitt who already have Spares ordering capability, please refer to Table 2 to place orders of FOC Hex Screws PNR 0901101-149.

(7) For customers who have never ordered from Parker Meggitt directly, please refer to Table 4 to contact our Authorized Distributor Proponent for ordering of FOC Hex Screws PNR 0901101-149 (SB 1111548-25-001-2023).

Table 2

Parker Meggitt Aftermarket Services

Worldwide Support :			
Parker Meggitt Aftermarket Services 11700 NW 102nd Road Suite 6 Miami, FL 33178 USA	Phone FAX Email	: : :	+ 1 305 477 4711 Ext. 260 / 229 + 1 305 477 9799 CX.USA@meggitt.com
Parker Meggitt Aerospace Asia Pacific Pte Ltd 1A Seletar Aerospace Link Singapore 797552	Phone DID Email	: : :	+ 65 6511 7200 + 65 6511 6282 CX.APAC@meggitt.com
Parker Meggitt - Service and Support Ansty Business Park Unit 2 Pilot Way Coventry CV7 9JU United Kingdom	Phone Email	: :	+ 44 2477 708 7299 CX.EMEA@meggitt.com

Table 3
Parker Meggitt Authorized Repair Shop

Parker Meggitt Authorized Repair Shop :			
John Cameron Aviation (Australia) Hangar 473, Birch Street Bankstown Airport, NSW 2200 Australia	Email	:	htlworkshop@jcaviation.com.au peter@jcaviation.com.au

Table 4
Parker Meggitt Authorized Distributor

Parker Meggitt Authorized Distributor :			
Proponent	Email	:	meggittreferral@proponent.com

G. 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 5.

Table 5
Parker Meggitt Customer Support

Worldwide Support :			
Parker Meggitt Customer Services and Support	E-mail	:	TechSupport@meggitt.com

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