



INSTRUCTION TO SERVICE

ITS: 6628	
SECTION:	526 Seating & Stanchions
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SUBJECT:	Part A – RECARO Seatbelt Inspection Part B – RECARO Seatbelt Replacement Section I - Applicable to Ergo M AM80 Section II - Applicable to Ergo M and MCII AM71/72 (TETHER BAR MOUNTED)

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Issue: RECARO seatbelt buckles may be locked in a latched position which does not allow the latch plate (tongue) to engage. This prevents the driver from securing the seatbelt.

Solution: Remove and replace buckles with new from supplier.

Part A – RECARO Seatbelt Inspection

1. Inspect RECARO seatbelt buckle for Julian Code. If a new style buckle is found, do not replace. If an older style buckle is found, find the Julian Code in the area indicated. Refer to Figures 1 and 2.



Figure 1 – New Style Buckle – Do Not Replace

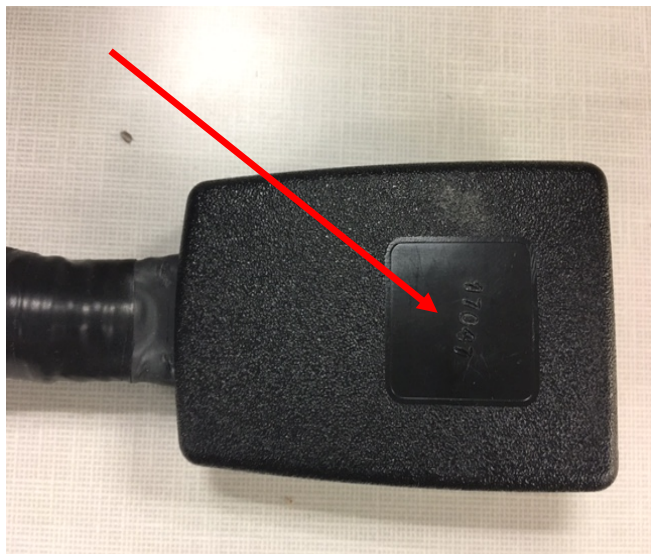


Figure 2 – Older Style Buckle with Julian Code

2. Replace older style buckle only if Julian Code falls between:

16335 (Dec. 1st 2016) to 17178 (June 27th 2017)

Note: If Julian code does not fall within this range, record information and return bus to service.

3. Complete RECARO inspection sheet below.



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RECARO Inspection Sheet

<u>Property:</u>				<u>Julian Code</u>	
				16335 (Dec. 1st 2016) to 17178 (June 27th 2017)	
<u>Date of Inspection</u>		<u>Person / Company Inspecting:</u>			
	<u>Seat Serial #</u>	<u>Bus #</u>	<u>Replace (Y/N)</u>	<u>Julian Code (Y/N)</u>	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
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26					



Part B – RECARO Seatbelt Replacement

Section I - Applicable to Ergo M AM80

PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position.
2. Refer to **APPENDIX A - ERGO M AM80 REPLACEMENT INSTRUCTIONS**. Follow field replacement instructions for RECARO Ergo M AM80 seat buckles.
3. Remove all tools and debris and return the bus to service condition.
4. Turn the main battery disconnect switch to the “ON” position.

LABOUR ESTIMATE				
	Operation	Men	Hours	Labor Time M X HR
1	Replace RECARO Ergo M AM80 seat belt buckle	1	0.33	0.33

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	NPN	RECARO Ergo M AM80 seat belt buckle	1	EA	Parts to be supplied by RECARO



Section II – Applicable to Ergo M and MCII AM71/72 (TETHER BAR MOUNTED)

PROCEDURE

1. Turn the main battery disconnect switch to the “OFF” position.
2. Refer to **APPENDIX B - ERGO M and MCII AM71/72 (TETHER BAR MOUNTED) REPLACEMENT INSTRUCTIONS**. Follow field replacement instructions for RECARO Ergo M and MCII AM71/72 (TETHER BAR MOUNTED) seat buckles.
3. Remove all tools and debris and return the bus to service condition.
4. Turn the main battery disconnect switch to the “ON” position.

LABOUR ESTIMATE				
	Operation	Men	Hours	Labor Time M X HR
1	Replace RECARO Ergo M and MCII AM71/72 seat belt buckle	1	0.33	0.33

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	NPN	RECARO Ergo M and MCII AM71/72 seat belt buckle	1	EA	Parts to be supplied by RECARO

APPENDIX A - ERGO M AM80 REPLACEMENT INSTRUCTIONS

RECARO

Before ordering buckles, please inspect the buckles to see if the Julian Date on the buckle falls within the time frame needed for replacement.

Tools Needed:

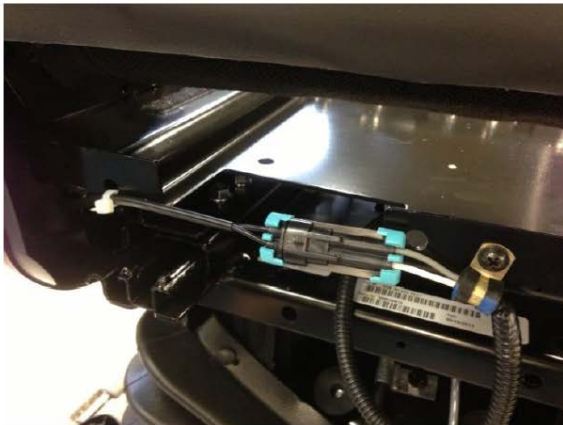
- Phillips #2 screwdriver
 - Large Flat head screwdriver
 - Side cutters
 - Small pick
 - 5/8" hex wrench/socket
 - Torque wrench
1. Remove hole plugs from lower rear trim panel using small pick. Save for re-use. Remove rear lower trim panel using Phillips #2 screwdriver. Set aside caps, screws, and panel.



2. Remove hand wheel from the recliner on the same side as the buckle by prying gently with a large flat head screwdriver. Remove rear side trim panel using Phillips #2 screwdriver. Move to the side to gain access to the seat belt buckle bolt.



3. Disconnect the electrical connector from the seat belt buckle to the jumper harness, if the seat is equipped with a seat belt alarm. Cut the small zip tie with side cutters, ensuring the wire harness is not damaged.



Buckle on LH side of seat



Buckle on RH side of seat

4. Using a 5/8" socket, remove the seat belt buckle bolt from the J bracket. (Option shown below is on the left hand side, the buckle can be installed on the left or right side.)



5. Remove the buckle and hardware from the seat. Set aside to return to RECARO. Record to serial number of the seat to tag the buckle. The serial number is located on the white 4X1 sticker located on the top rear plate of the suspension.



6. Obtain the new buckle and route the end of the buckle through the opening in the side rear trim panel. Place large washer & buckle on J bracket and hand start bolt. If the seat does not require a seat belt alarm, cut the wire off as close to the base of the heat shrink tubing as possible. If it does require an alarm, ensure the washer does not pinch the wire harness. Torque to 50 +/- 4 Nm.



7. Connect the seat belt alarm on the buckle to the jumper harness on the seat. Loop the small zip tie around the cushion frame to ensure the wire harness is routed the same as it was previously.



Buckle on LH side of seat



Buckle on RH side of seat



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8. Replace the side trim panel and secure the screw to the cushion frame with the Phillips #2 screwdriver. Replace the recliner knob on the recliner shaft, ensuring it is symmetrically installed with the opposite side. Replace the rear trim panel and secure all 4 screws and replace the hole plugs.

Do not throw out the old buckles. RECARO requires all replaced buckles returned.



APPENDIX B - ERGO M and MCII AM71/72 (TETHER BAR MOUNTED) REPLACEMENT INSTRUCTIONS

RECARO

Before ordering buckles, please inspect the buckles to see if the Julian Date on the buckle falls within the time frame needed for replacement.

Tools Needed:

- Small pick
- Side cutters
- 5/8" hex wrench/socket
- Torque wrench

1. Using a small pick, remove the cap from the seat belt buckle bolt on the side of the tether bar.
2. If the seat is equipped with a seat belt alarm, cut the small zip tie with side cutters, ensuring the wire harness is not damaged. Raise the seat to full up to ensure access is maintained to the seat belt wire harness, in the back of the suspension. Disconnect the seat belt buckle from the jumper on the seat.



Example of left hand, normally-closed buckle

3. Using a 5/8" socket, remove the seat belt buckle bolt from the tether bar. (Option shown below is on the left hand side, the buckle can be installed on the left or right side.)

Standard LH belt, tether configuration (buckle side close to suspension)



Standard N/C buckle



Standard N/O buckle

Shifted LH belt, tether configuration (buckle side extended away from suspension)



Shifted tether bar N/C buckle



Shifted tether bar N/O buckle

- Remove the buckle and hardware from the seat. Set aside to return to RECARO. Record to serial number of the seat to tag the buckle. The serial number is located on the white 4X1 sticker located on the top rear plate of the suspension.



- Install seatbelt buckle (N/C standard-30822807E-01, N/O-30987307E) with bolt (30819307) and washer (30822707) under the head of the bolt and one of the following (ensuring the wire harness does not get pinched between any of the washers):

	Washer stack between buckle and tether bar	
	N/C buckle (normally closed)	N/O buckle (normally open)
Standard tether bar config.	1	3
Shifted tether bar config.	0	2

Standard LH belt, tether configuration (buckle side close to suspension)



Standard N/C buckle



Standard N/O buckle

Shifted LH belt, tether configuration (buckle side extended away from suspension)



Shifted tether bar N/C buckle

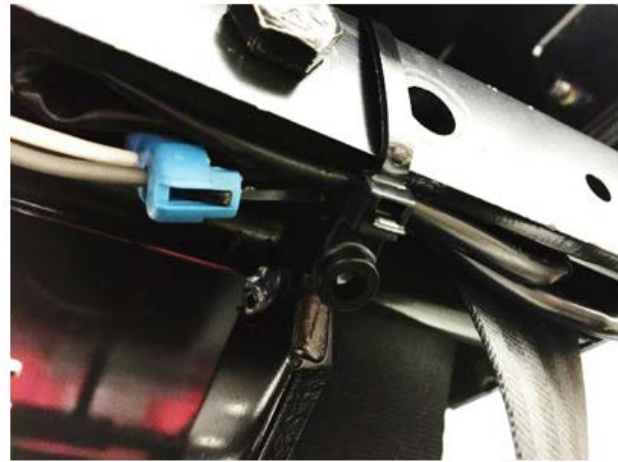


Shifted tether bar N/O buckle

6. Connect the seat belt alarm on the buckle to the jumper harness on the seat. Loop the small zip tie around the cushion frame to ensure the wire harness is routed the same as it was previously. Secure the buckle wire high on the back side of the tether bar with a zip tie at the 90° bend of the bar. Angle the routing of the buckle wire down toward the bottom edge of the tether bar and secure with a second wire tie as close to the suspension as possible. Clip off the excess ends of the wire ties.



Example of left hand, normally-closed buckle



Example of right hand, normally-open buckle

7. Torque the buckle bolt to 50 +/- 4 Nm. Replace the bolt cap.

Do not throw out the old buckles. RECARO requires all replaced buckles returned.