

TABLE OF CONTENTS



I. PREVENTATIVE MAINTENANCE

1. Inspect operation of door latch
2. Inspect sliding glass operations (upper/lower track & liners)
3. Inspect door swing/tether strap
4. Inspect glass stops
5. Inspect mounting hardware

II. SERVICE & MAINTENANCE PROCEDURES

1. Glass cleaning instructions
2. Latch striker assembly and adjustment
3. Latch cover removal and replacement
4. Upper slider track adjustment
5. Lower slider track adjustment
6. Sliding sash/front glazing removal and replacement
7. Fixed glass removal and replacement
8. Slider track liner removal and replacement
9. Tether strap adjustment

PREVENTATIVE MAINTENANCE



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue curved line above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A photograph of the AROWGUARD Slide System, showing a white bus seat and a white protective structure.
Preventative maintenance should be done every 6 months or 10,000 miles, whichever comes first.	

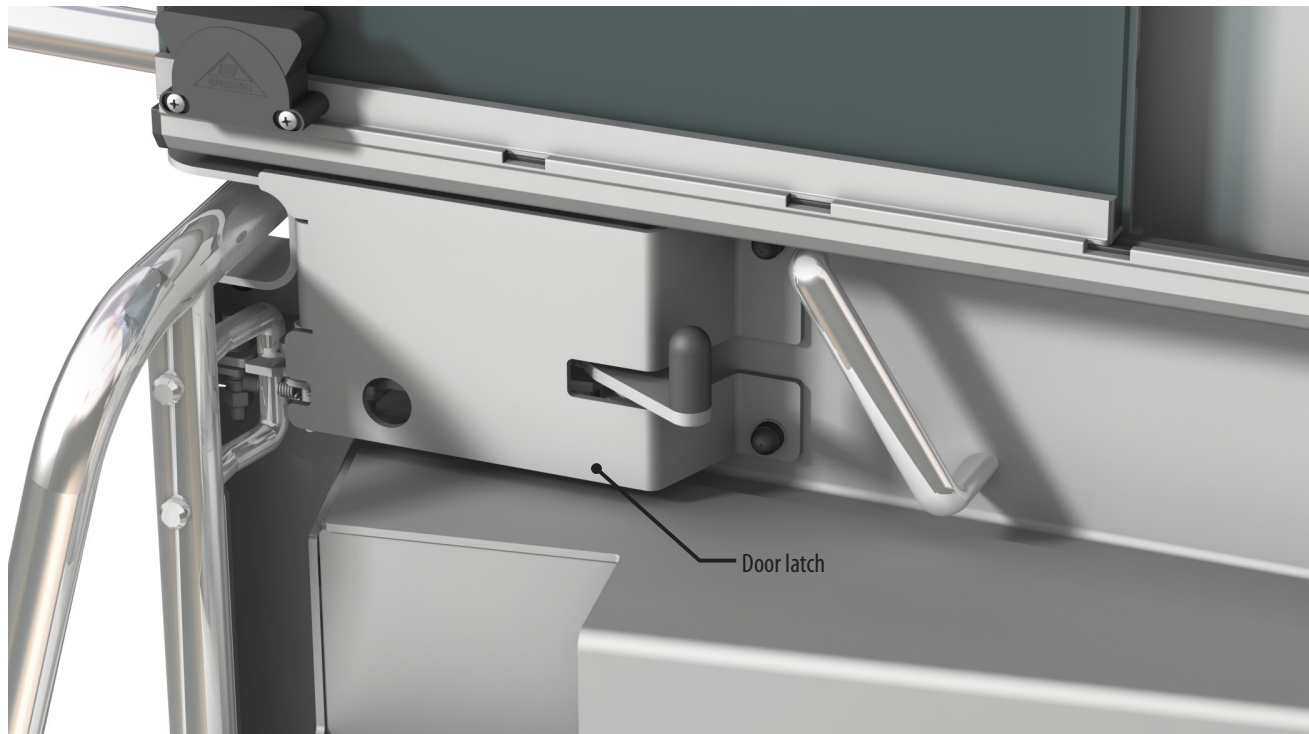
NOTE: Preventative maintenance includes items that will ensure the long-term performance of primary features of your AROWGuard product. Maintenance items related to cleanliness are not included in these and intervals should be performed more frequently in accordance with bus service requirements.

INSPECT OPERATION OF DOOR LATCH



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A 3D rendering of the AROWGUARD Slide System, showing a vehicle seat and the protective structure.

This document provides step-by-step instructions on how to inspect the operation of the door latch on the AROWGuard Slide System.



INSPECT OPERATION OF DOOR LATCH



TOOLS REQUIRED:

- PTFE (Teflon) based dry film lubricant

LUBRICATE DOOR LATCH

1. Using the PTFE (Teflon) based dry film lubricant, spray the metallic components of the lock assembly as shown in **Figure 1**.

OPENING (RELEASING) DOOR LATCH

1. Ensure that the door latch will release without having to apply more than 5lbs. of force to the push knob as shown in **Figure 2**.

CLOSING DOOR AND LATCHING DOOR LATCH

1. Ensure that the door will latch without having to apply more than 20lbs. of force to the pull handle as shown in **Figure 3**.

If it takes more than the specified force(s) to release or latch the unit, refer to the Service & Maintenance procedure for **Latch Striker Assembly and Adjustment**.

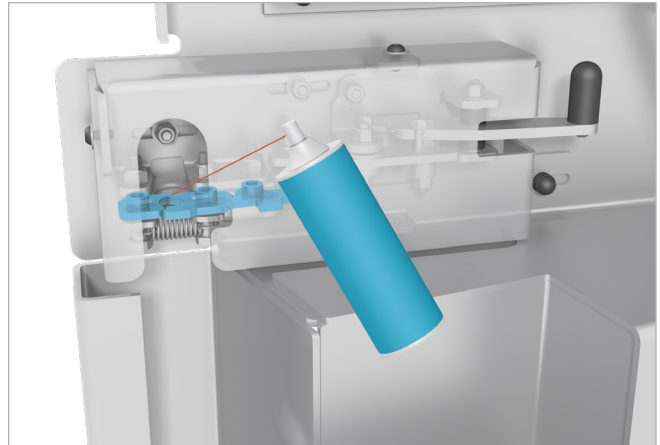


Figure 1 – Lock assembly metallic components.

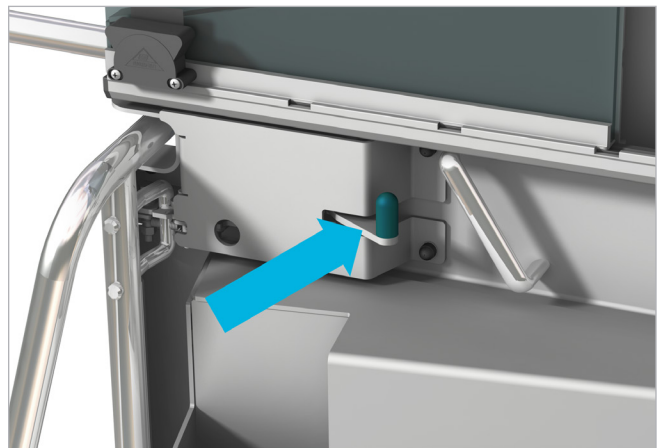


Figure 2 – Push knob in an outward direction.

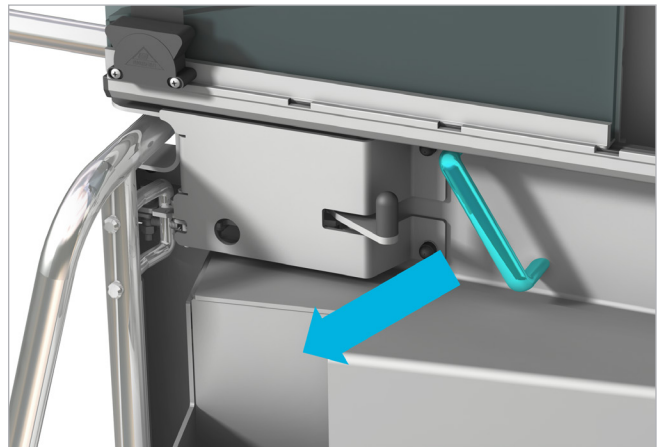


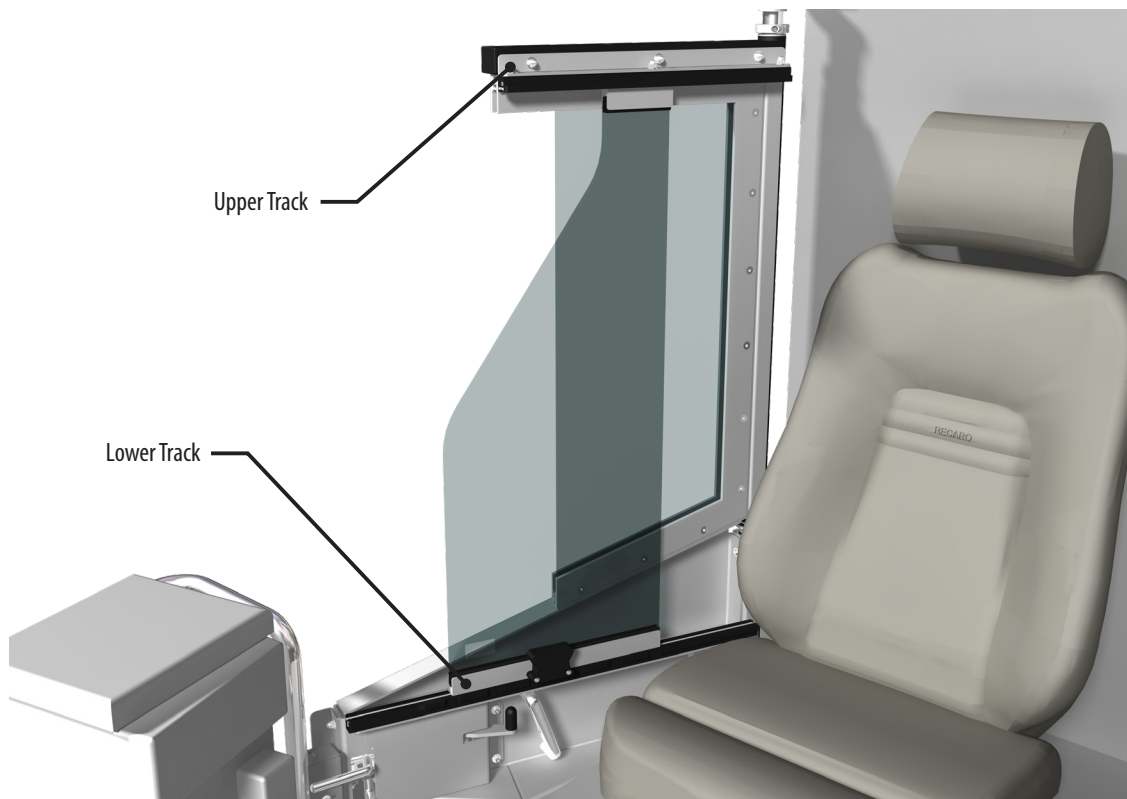
Figure 3 – Grip handle and firmly pull to engage latch.

INSPECT SLIDING GLASS OPERATION (UPPER/LOWER TRACK & LINERS)



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A 3D rendering of the AROWGUARD Slide System, showing a grey seat and a sliding glass panel.

This document provides step-by-step instructions on how to inspect the upper and lower tracks and liners on the AROWGuard Slide System.



INSPECT SLIDING GLASS OPERATION (UPPER/LOWER TRACK & LINERS)



TOOLS REQUIRED:

- None

SLIDING FRONT GLASS (FORCE)

1. Using the rocker latch (**Figure 1**), move the sliding glass forward and back. The sliding glass should require a force of no more than 26lbs. to initiate movement, and a force of no more than 13lbs. to maintain motion.

SLIDING FRONT GLASS (NOISE)

1. Road test the vehicle to ensure that the sliding glass assembly is not causing objectionable noise.

IF IT TAKES MORE THAN THE SPECIFIED FORCE(S) TO MOVE THE SLIDING GLASS, OR IF THE SLIDING GLASS IS CAUSING OBJECTIONABLE NOISE, PROCEED WITH THE FOLLOWING STEPS:

1. Verify that the slider track liners are in “good” condition. A slider track liner that is in “good” condition will not have uneven edges, cracking, or excessive play between the slider track liner and the sliding glass assembly. Focus on the **red** areas highlighted in **Figure 2** and **Figure 3** when inspecting the condition.
2. If a slider track liner is found to be in “worn” condition, refer to the Service & Maintenance procedure for **Slider Track Liner Removal and Replacement**.
3. If the slider track liners are in “good” condition, refer to the Service & Maintenance procedure for **Upper/lower Slider Track Adjustment**.

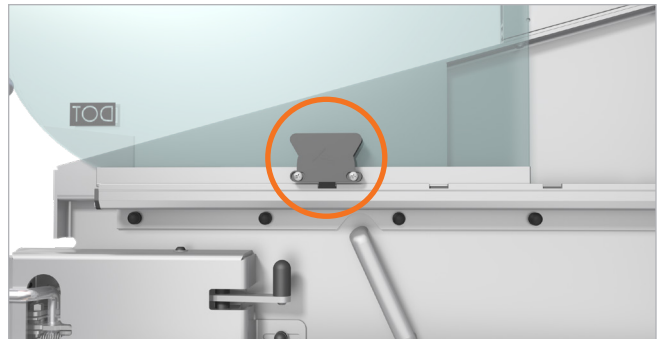


Figure 1 – Rocker latch location.

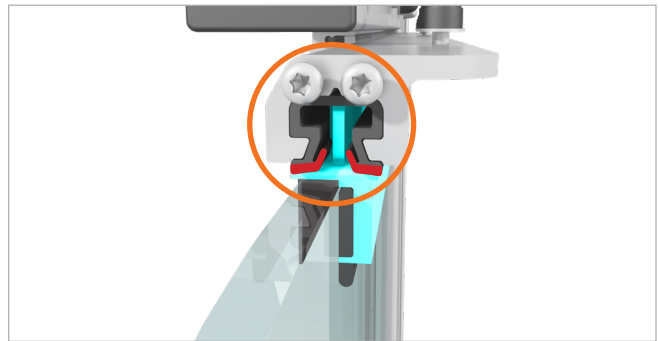


Figure 2 – End view of slider track liner.

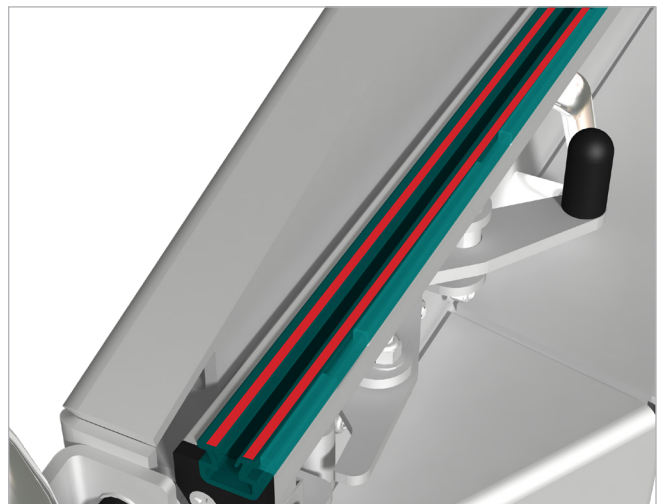


Figure 3 – Top view of slider track liner.

INSPECT DOOR SWING/TETHER STRAP



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram showing a vehicle seat and door assembly with a slide system.

This document provides step-by-step instructions on how to inspect the door swing and tether strap on the AROWGuard Slide System.



INSPECT DOOR SWING/TETHER STRAP



TOOLS REQUIRED:

- None

DOOR SWING STOP MECHANISM (TETHER STRAP)

1. Open the operator door.
2. Ensure that the tether strap is adjusted to prevent the operator door from opening more than 95 degrees, or past the standee line, as shown in **Figure 1**.

NOTE: On some bus models, the operator door will make contact with/stop against the curbside wheel well. This is a normal condition and the tether strap can be adjusted to limit contact.

3. If the tether strap requires adjustment to correct any of the conditions above, refer to the Service & Maintenance procedure for the **Tether Strap Adjustment**.

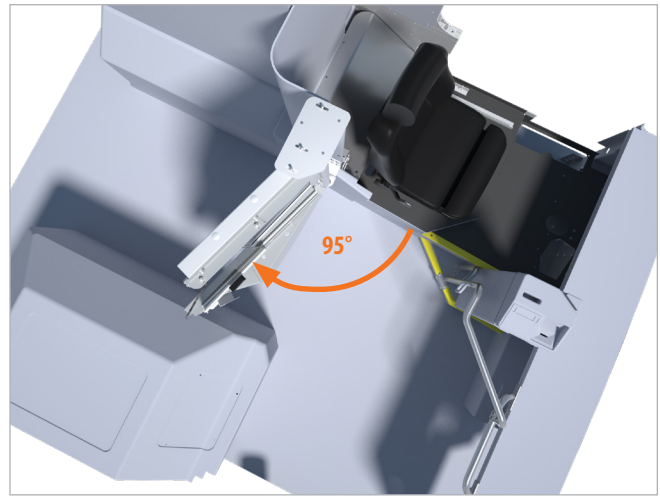


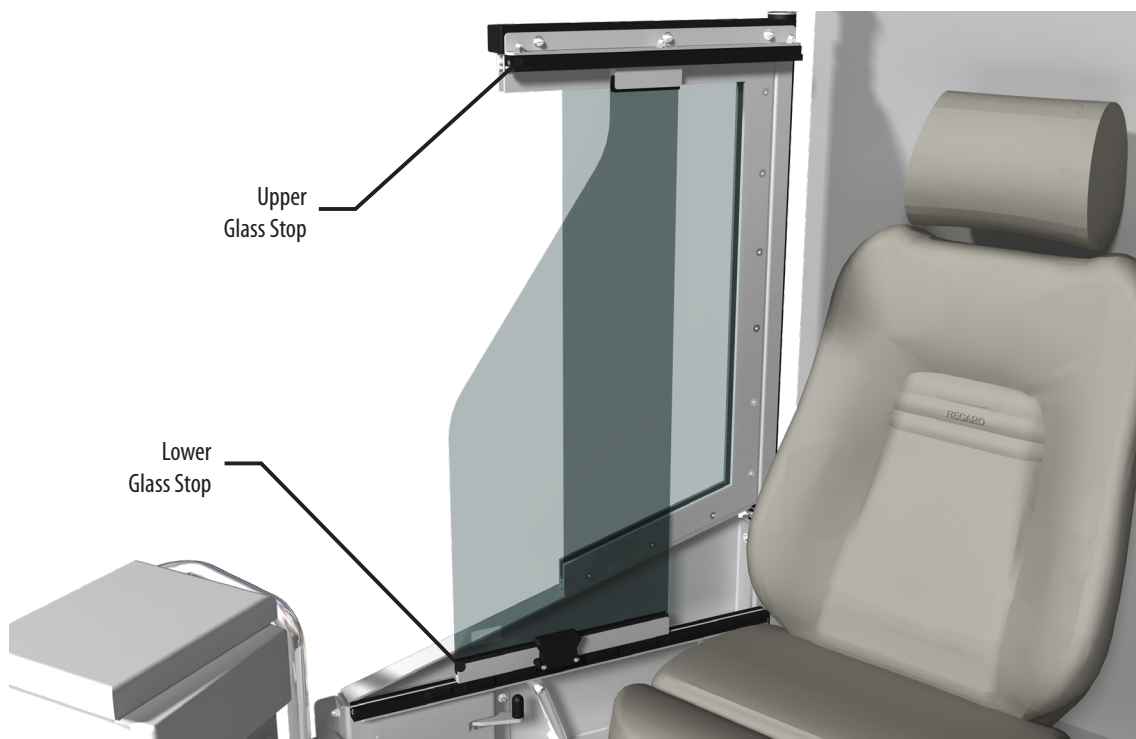
Figure 1 – Door stopping position.

INSPECT GLASS STOPS



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram showing a side view of a vehicle seat and the AROWGuard Slide System, which is a protective structure that slides forward to protect the driver.

This document provides step-by-step instructions on how to inspect the glass stops on the AROWGuard Slide System.



INSPECT GLASS STOPS



TOOLS REQUIRED:

- Torx T20 screwdriver

UPPER AND LOWER GLASS STOP PLATES

1. Using the Torx T20 screwdriver, ensure that the upper and lower glass stops are tightened to a torque of 23 in.-lbs. Refer to **Figure 1** for location of the glass plates.

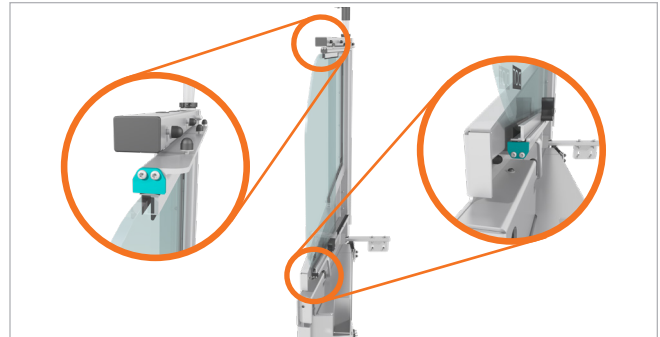


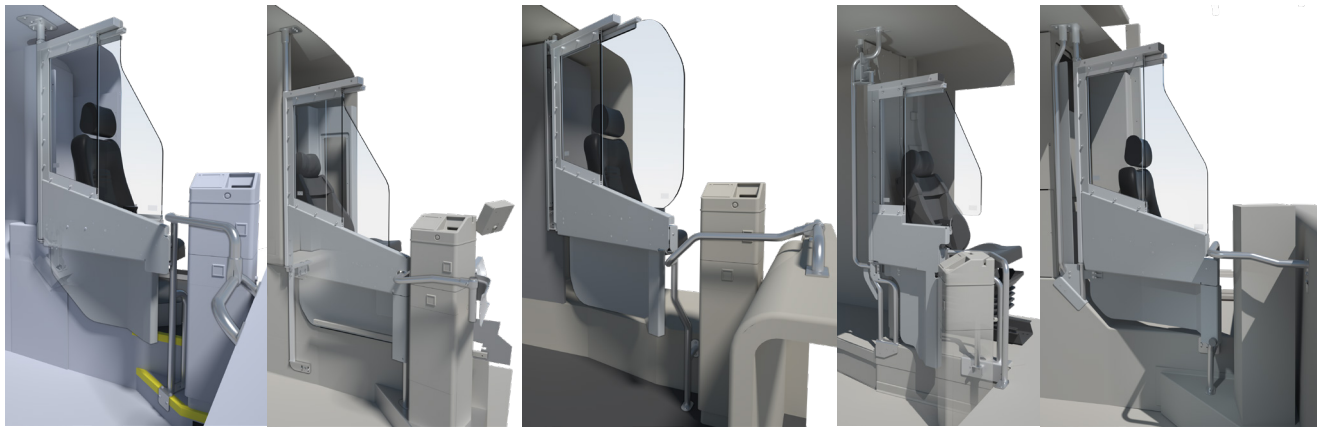
Figure 1 – Upper and lower glass stops.

INSPECT MOUNTING HARDWARE



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A 3D rendering of the AROWGUARD Slide System mounting hardware installed on a bus seat.

This document provides step-by-step instructions on how to inspect the AROWGuard Slide System mounting hardware on various bus models.



INSPECT MOUNTING HARDWARE



TOOLS REQUIRED:

- Ratchet / Torque Wrench
- 7/16" Socket / Wrench
- 1/2" Socket / Wrench
- 1/4" Allen Key
- 5/32" Allen Key
- Phillips Screwdriver (#2 and #3)
- Flat Screwdriver
- Loctite 243

GENERAL NOTES:

- Ensure that the mounting hardware used to secure the Driver Protection System (DPS) to the bus is torqued to the appropriate specification.
 - 1/4" hardware should be torqued to 75 in.-lbs. (6.3 ft.-lbs.)
 - 5/16" hardware should be torqued to 132 in.-lbs. (11 ft.-lbs.)
- If hardware is found to be installed with less torque than is specified, remove it completely, apply Loctite 243 to the threads, reinstall, and re-torque it to the specified value.
- Diagrams illustrating the mounting configurations for five different bus styles are shown. Each bus style has 3-4 areas where the DPS unit is mounted, and where hardware torque should be verified.
 - Top mount for the door hinge post
 - Middle mount for the door hinge post (not always present)
 - Bottom mount for the door hinge post
 - All mounting points for the latch stanchion

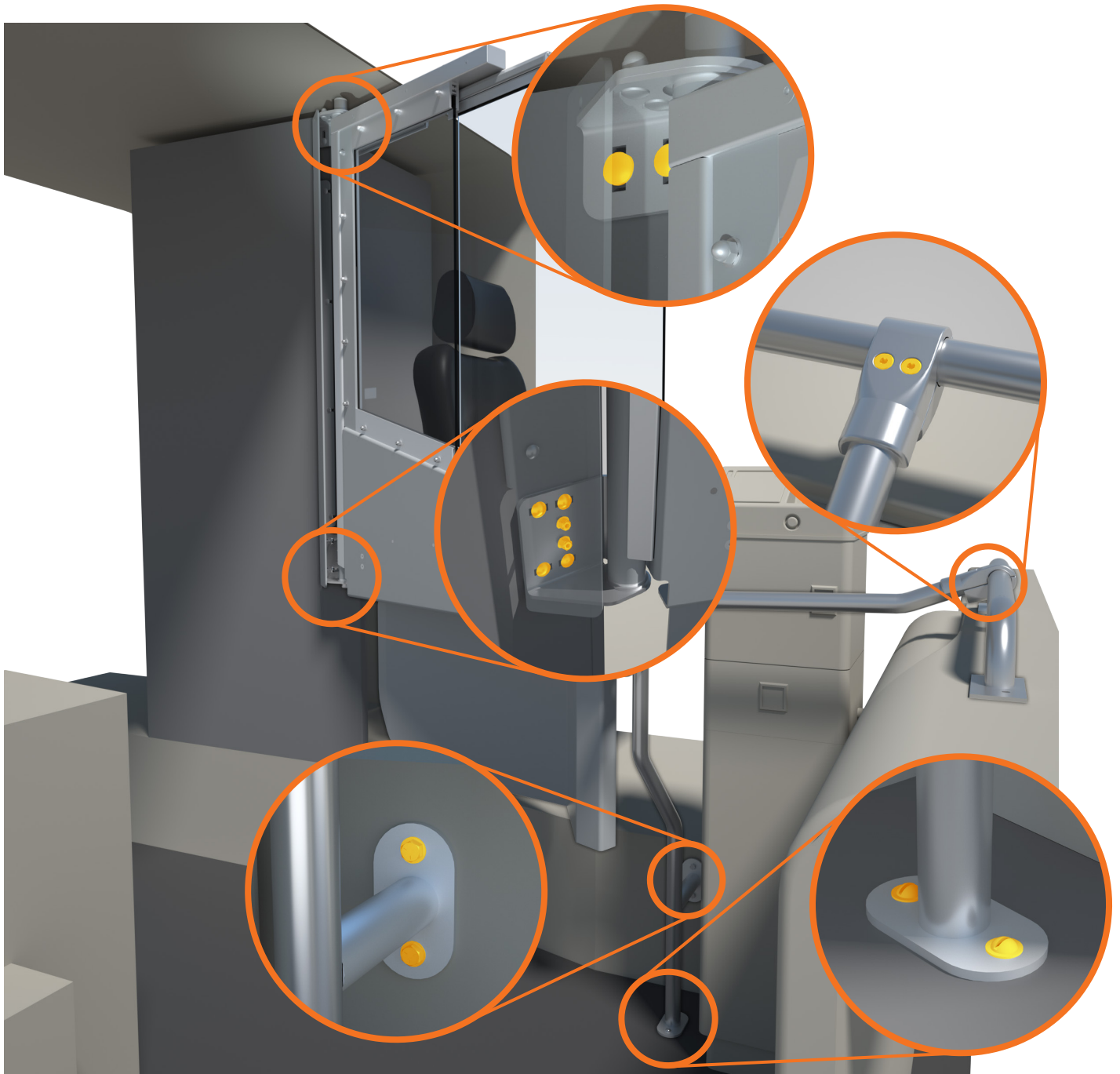
Hardware positions are highlighted in **yellow** in the diagrams.

NOTE: It may be necessary to remove nut caps, hole covers, or small panels to access the mounting hardware.

INSPECT MOUNTING HARDWARE



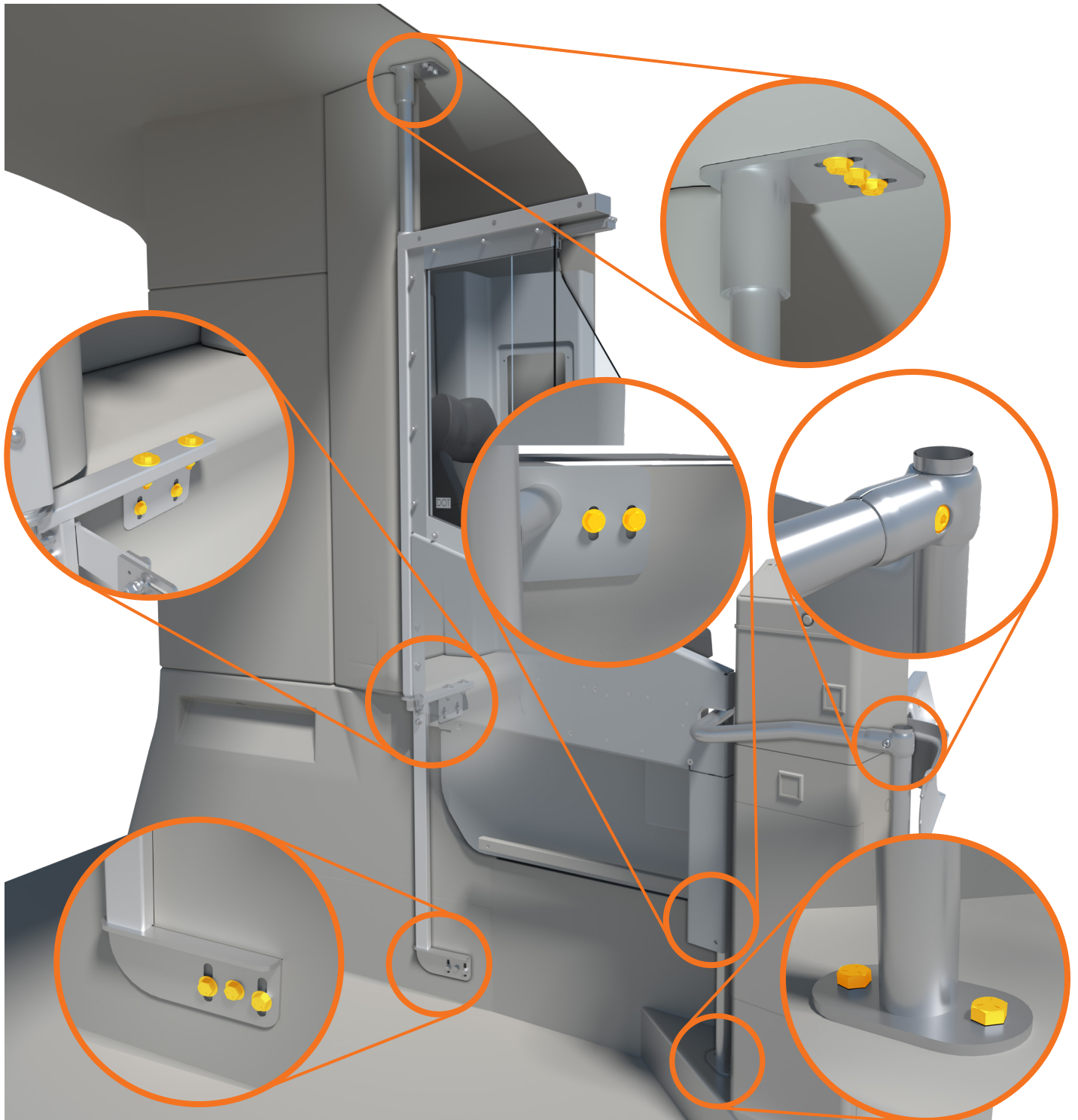
BUS STYLE 2



INSPECT MOUNTING HARDWARE



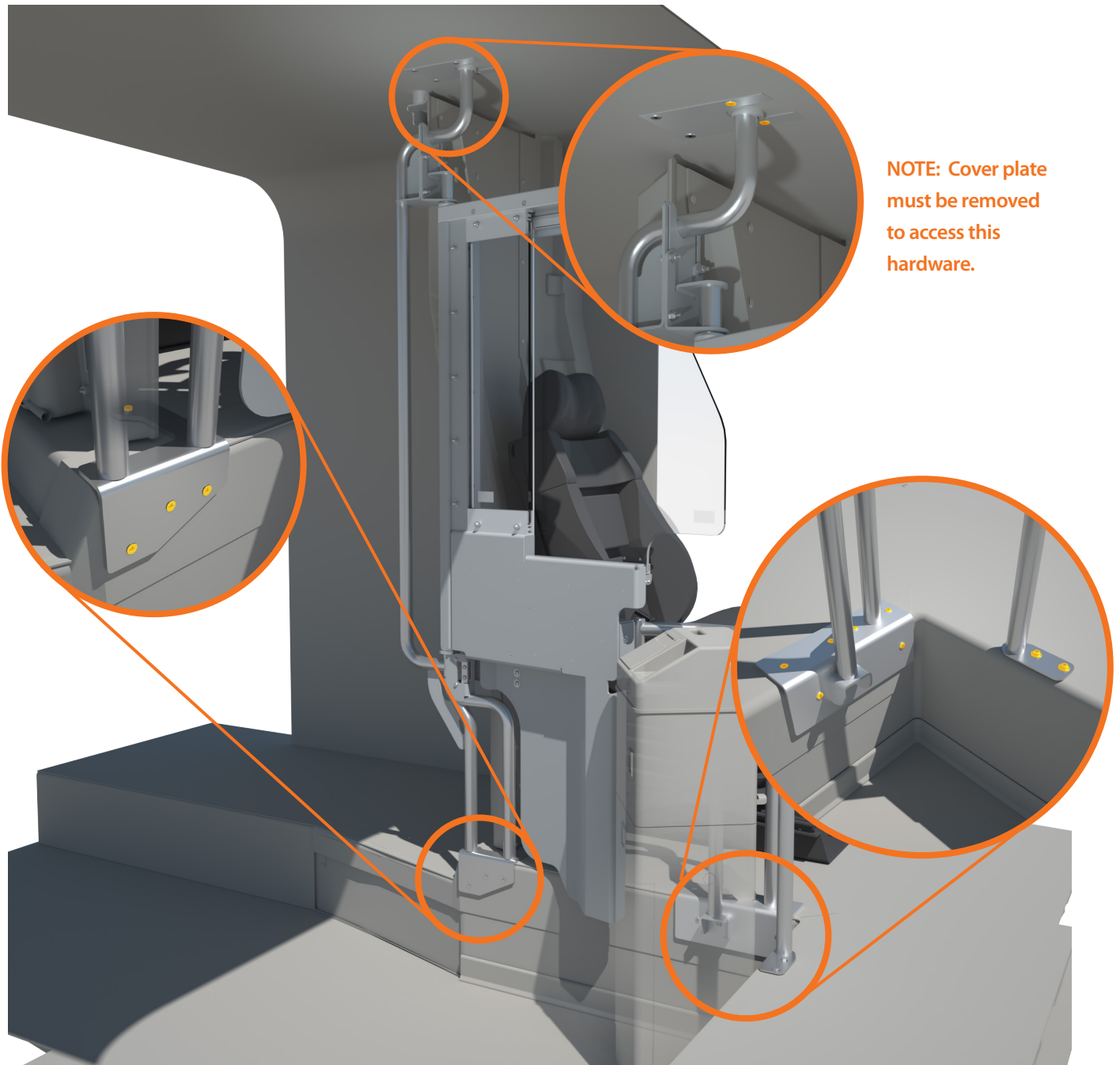
BUS STYLE 3



INSPECT MOUNTING HARDWARE



BUS STYLE 4

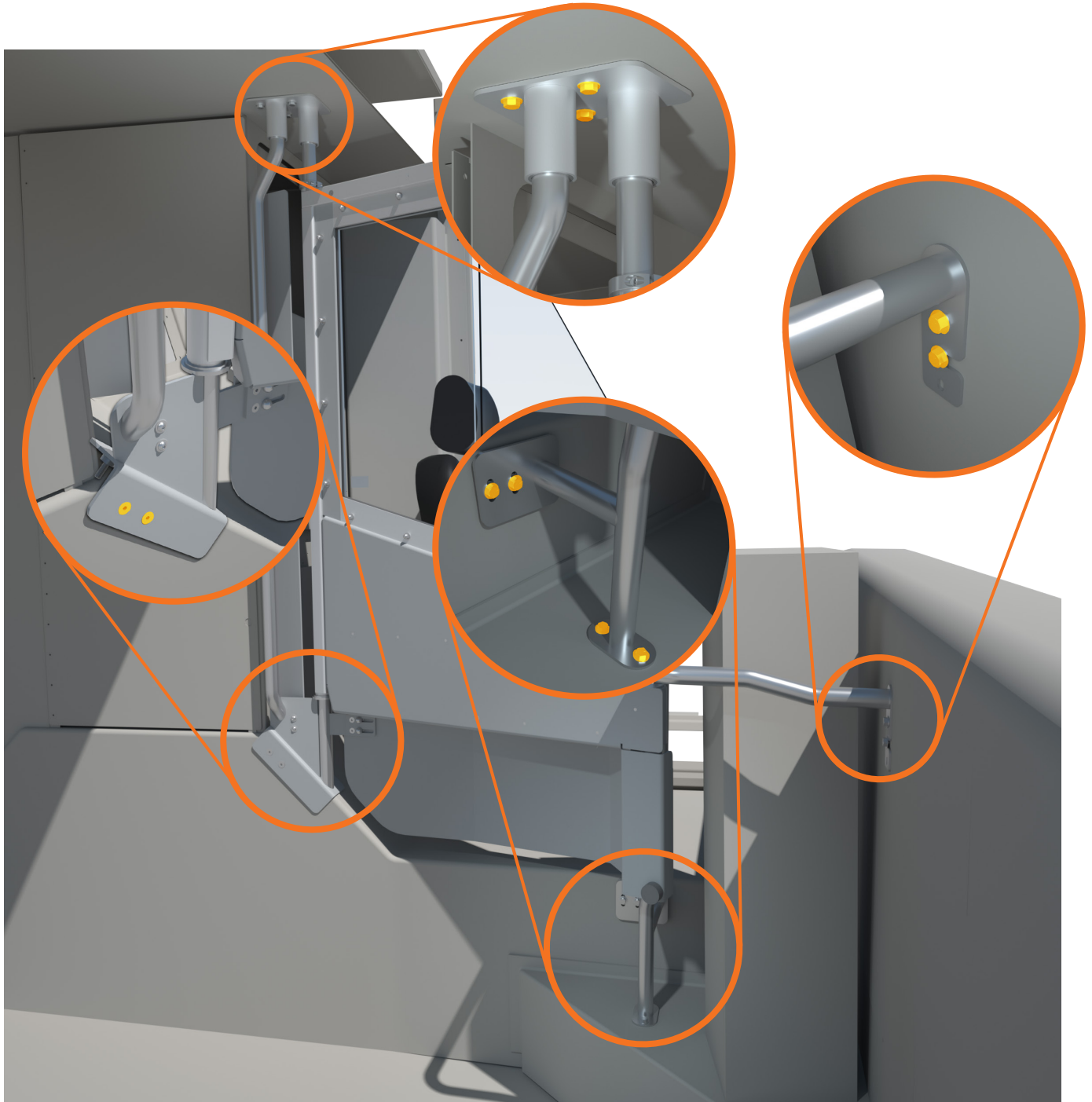


NOTE: Cover plate must be removed to access this hardware.

INSPECT MOUNTING HARDWARE



BUS STYLE 5



SERVICE & MAINTENANCE PROCEDURES



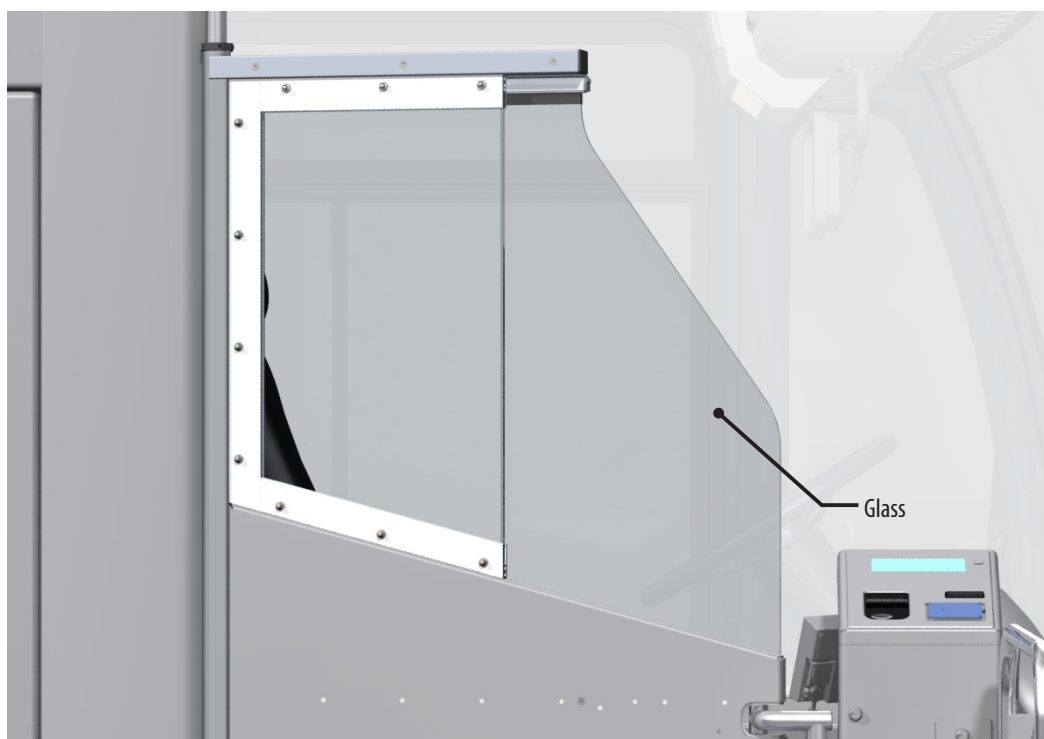
Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue curved line above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A photograph of the AROWGUARD Slide System, showing a white seat and a white protective structure.
The following pages are the Service and Maintenance Procedures for the AROWGuard Slide System.	

GLASS CLEANING INSTRUCTIONS



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram showing a vehicle interior with a driver's seat and a glass protection system (AROWGUARD) installed behind the seat.

This document provides step-by-step instructions on how to clean the glass on the AROWGuard Slide System.



GLASS CLEANING INSTRUCTIONS



TOOLS REQUIRED:

- Mild soap or detergent
- Lukewarm water solution
- Clean soft cloth or sponge
- Hexane, naphtha, or kerosene

CLEANING

1. Wash with a mild soap or detergent and a lukewarm water solution, using a clean soft cloth or sponge and as much of the soap solution as possible.
2. To remove tar, grease, paint, etc., use a good grade of hexane, naphtha, or kerosene.
3. Solvent residue should be removed by washing immediately.
4. Use warm soapy water to clean the remaining components of the DPS unit.

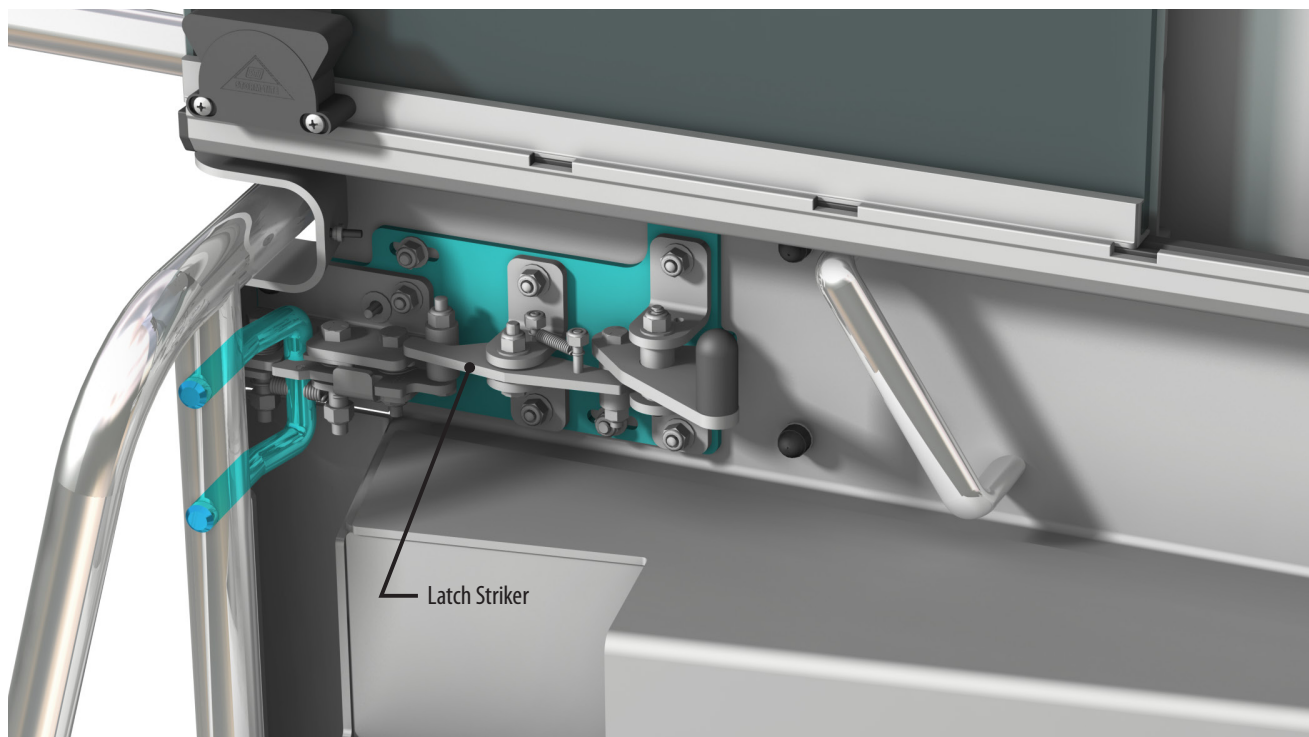
WARNING: Never use scouring compounds, gritty cloths, leased or ethyl gasolines or solvents such as alcohol, acetone, benzene carbon tetrachloride, or lacquer thinner to clean the glass.

LATCH STRIKER ASSEMBLY AND ADJUSTMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the word 'AROWGUARD' in a bold, sans-serif font, with 'DRIVER PROTECTION SYSTEMS' in a smaller font below it.
Model:	Slide System A 3D rendering of the AROWGUARD Slide System, showing a vehicle seat and the protective structure that slides over it.

This document provides step-by-step instructions on how to assemble and adjust the latch striker on the AROWGuard Slide System.



LATCH STRIKER ASSEMBLY AND ADJUSTMENT



TOOLS REQUIRED:

- 5/32 in. Hex Key
- 7/16 in. Wrench

LATCH COVER REMOVAL

1. Remove the latch cover. Reference the **Latch Cover Removal and Replacement** procedure for instructions.

ADJUSTING THE LATCH ASSEMBLY POSITION

1. Using the 5/32 in. hex key and 7/16 in. wrench, loosen the nuts shown in **Figure 1**. This allows the latch assembly to slide for adjustment.

NOTE: Do not fully remove the nuts.

2. With the latch assembly loose, move the base plate in/out as shown in **Figure 2**. Position the striker bar in the center of the latch jaw, indicated by the red target as shown in **Figure 3**. Test the striker bar position by latching and unlatching the door to confirm adjustment location.

NOTE: The striker bar is not adjustable. All adjustment should be made to the latch assembly plate.

3. Using the 5/32 in. hex key and 7/16 in. wrench, tighten the nuts and screws shown in **Figure 1** to a final torque of 75 in-lbs.
4. Check for proper latch engagement on the door by cycling the lock open and closed several times.
If binding or inoperable, check adjustments again.
If operation is satisfactory, the latch assembly adjustment is complete.

LATCH COVER REPLACEMENT

1. Reinstall the latch cover. Reference the **Latch Cover Removal and Replacement** procedure for instructions.

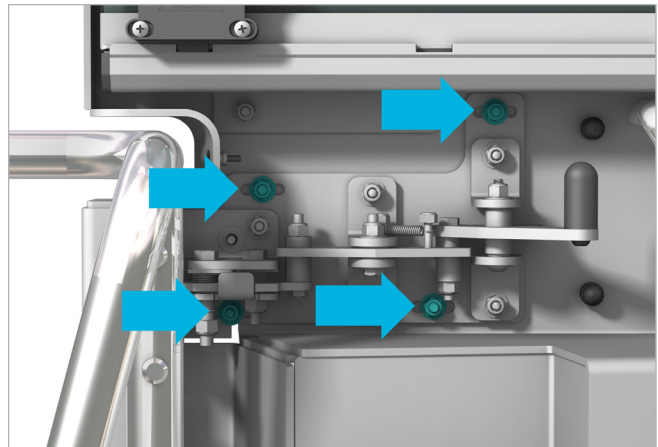


Figure 1 – Nut locations.

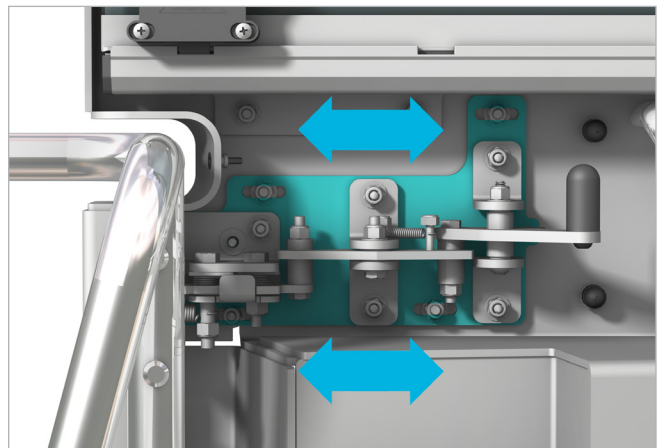


Figure 2 – Latch assembly base plate movement.

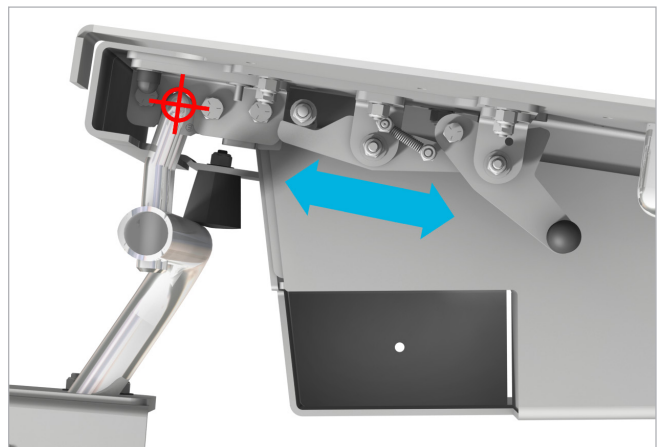


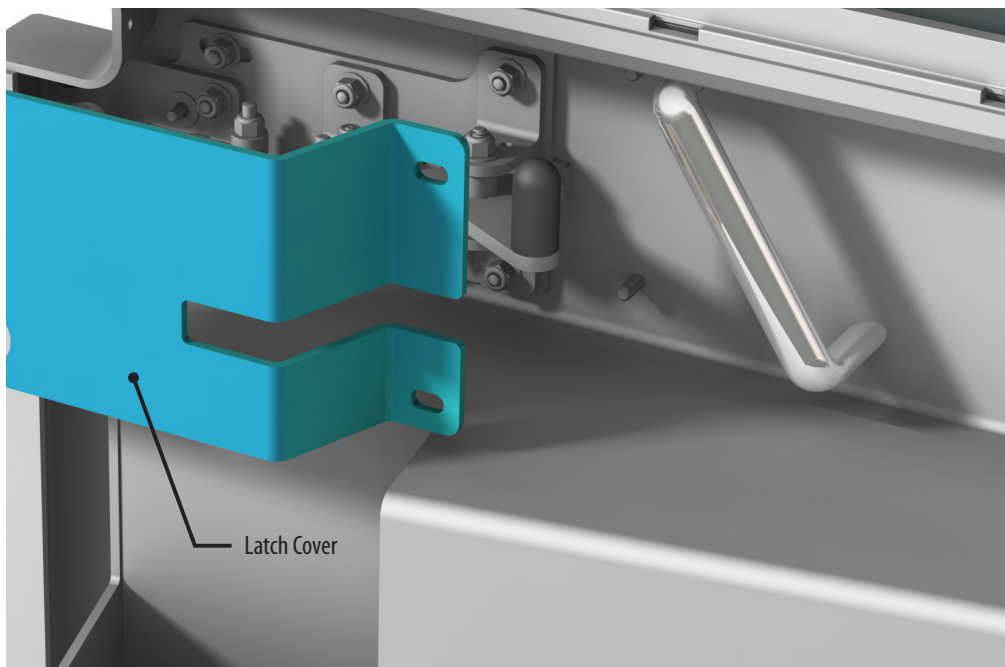
Figure 3 – Proper engagement of latch striker bar.

LATCH COVER REMOVAL AND REPLACEMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A 3D diagram of the AROWGUARD Slide System, showing a vehicle seat and the protective structure.

This document provides step-by-step instructions on how to remove and replace the latch cover on the AROWGuard Slide System.



LATCH COVER REMOVAL AND REPLACEMENT (STYLE #1)



TOOLS REQUIRED:

- 1/8 in. Hex key
- 7/16 in. Wrench
- Small flat blade screwdriver

LATCH COVER REMOVAL

1. Using the small flat blade screwdriver, remove the plastic nut covers. Retain for reassembly. See **Figure 1** for nut cover locations.
2. Using the 7/16 in. wrench, remove the nuts and washers. Retain for reassembly. See **Figure 1** for nut and washer locations.
3. Using the 1/8 in. hex key, remove the flat head bolts. Retain for reassembly. See **Figure 1** for bolt locations.
4. Slide latch cover around release knob and off of door, as shown in **Figure 2**.

LATCH COVER REPLACEMENT

1. Slide latch cover around release knob and onto door, as shown in **Figure 2**.
2. Locate the hardware removed in step 3 of latch cover removal. Using the 1/8 in. hex key, install the flat head bolts, tightening to a final torque of 23 in-lbs. See **Figure 1** for bolt locations.
3. Locate the hardware removed in step 2 of latch cover removal. Using the 7/16 in. wrench, install the washers and nuts, tightening to a final torque of 75 in-lbs. See **Figure 1** for nut and washer locations.
4. Locate the hardware removed in step 1 of latch cover removal. Reinstall the plastic nut covers. See **Figure 1** for nut cover locations.

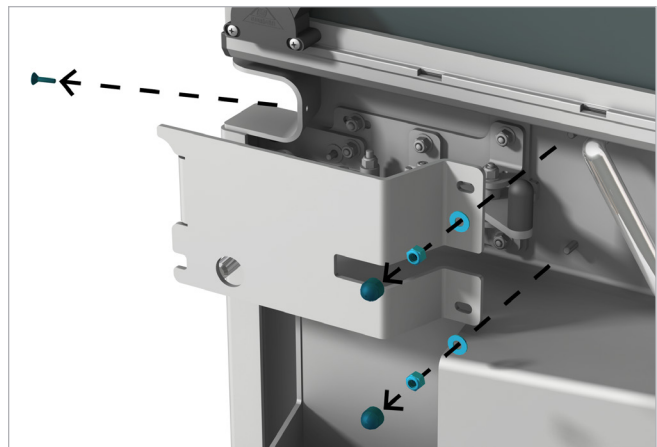


Figure 1 – Nut cover, nut, washer, and flat head bolt locations.

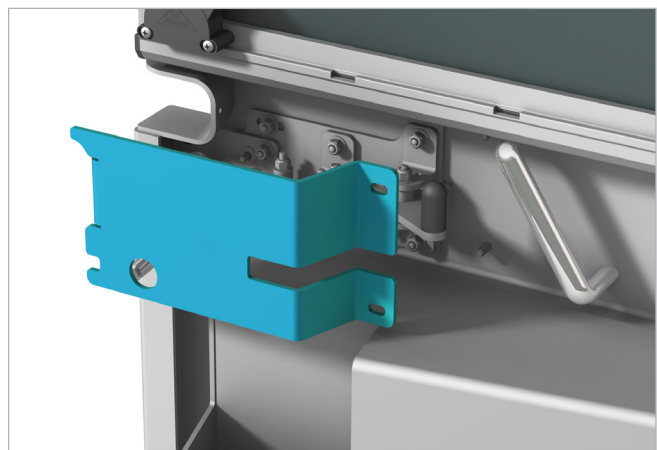


Figure 2 – Latch cover removal/replacement.

LATCH COVER REMOVAL AND REPLACEMENT (STYLE #2)



TOOLS REQUIRED:

- 5/32 in. Hex key
- 7/16 in. Wrench
- Small flat blade screwdriver
- Loctite 263

LATCH COVER REMOVAL

1. Using the small flat blade screwdriver, remove the plastic nut cover. Retain for reassembly. See **Figure 1** for nut cover location.
2. Using the 7/16 in. wrench, remove the nut and washer. Retain for reassembly. See **Figure 1** for nut and washer location.
3. Using the 5/32 in. hex key, remove the button head screws. Retain for reassembly. See **Figure 1** for screw locations.
4. Slide latch cover around release knob and off of door, as shown in **Figure 2**.

LATCH COVER REPLACEMENT

1. Slide latch cover around release knob and onto door, as shown in **Figure 2**.
2. Locate the hardware removed in step 3 of latch cover removal. Using the 5/32 in. hex key, install the button head screws, tightening to a final torque of 75 in-lbs. See **Figure 1** for bolt location.
3. Locate the hardware removed in step 2 of latch cover removal. Using the 7/16 in. wrench, install the washer and nut, tightening to a final torque of 75 in-lbs. See **Figure 1** for nut and washer location.
4. Locate the hardware removed in step 1 of latch cover removal. Reinstall the plastic nut cover. See **Figure 1** for nut cover location.

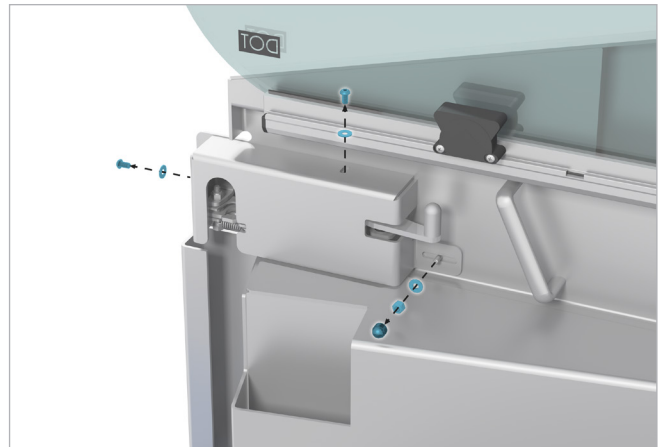


Figure 1 – Nut cover, nut, washer, and button head screw locations.

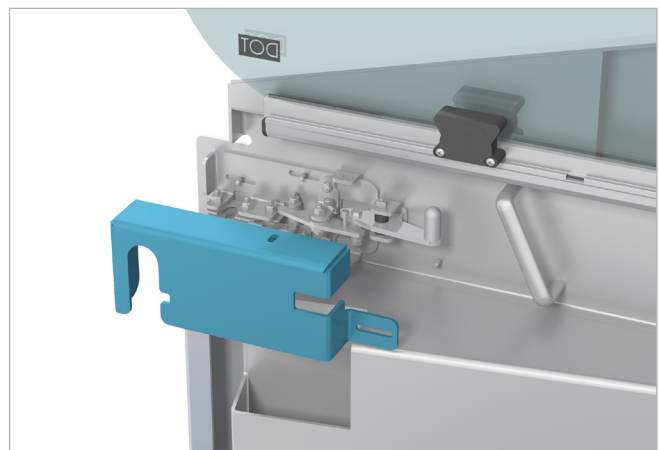


Figure 2 – Latch cover removal/replacement.

LATCH COVER REMOVAL AND REPLACEMENT (STYLE #3)



TOOLS REQUIRED:

- T27 Torx bit w/security pin
- 7/16 in. wrench
- Small flat blade screwdriver
- Loctite 263

LATCH COVER REMOVAL

1. Using the small flat blade screwdriver, remove the plastic nut cover. Retain for reassembly. See **Figure 1** for nut cover location.
2. Using the 7/16 in. wrench, remove the nut and washer. Retain for reassembly. See **Figure 1** for nut and washer location.
3. Using the T27 Torx bit w/security pin, remove the button head screws and washers. Retain for reassembly. See **Figure 1** for screw and washer locations.
4. Slide the latch covers off the door, as shown in **Figure 2**.

LATCH COVER REPLACEMENT

1. Slide the latch covers on the door, as shown in **Figure 2**.
2. Locate the hardware removed in step 3 of latch cover removal. Using the T27 Torx bit w/security pin, install the button head screws and washers. Apply Loctite 263 and torque to 75 in-lbs. See **Figure 1** for screw and washer locations.
3. Locate the hardware removed in step 2 of latch cover removal. Using the 7/16 in. wrench, install the washer and nut, tightening to a final torque of 75 in-lbs. See **Figure 1** for nut and washer location.
4. Locate the hardware removed in step 1 of latch cover removal. Reinstall the plastic nut cover. See **Figure 1** for nut cover location.

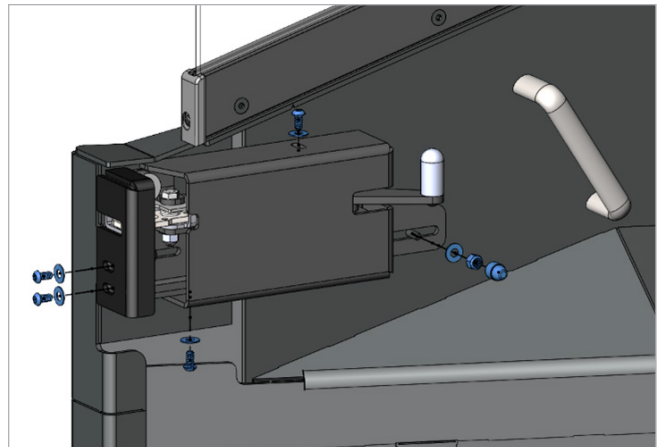


Figure 1 – Nut cover, nut, washer, and button head screw locations.

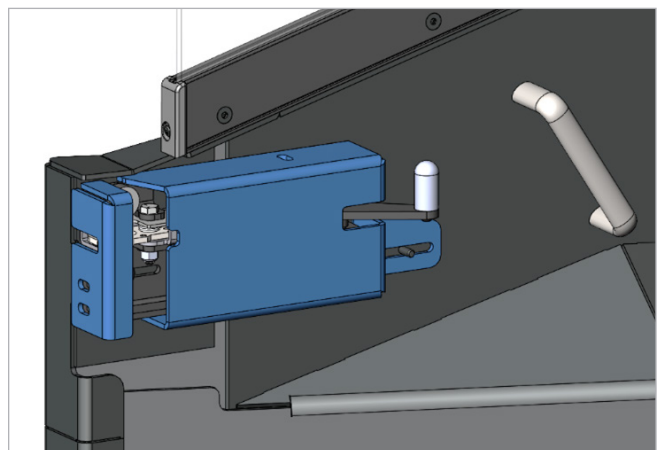


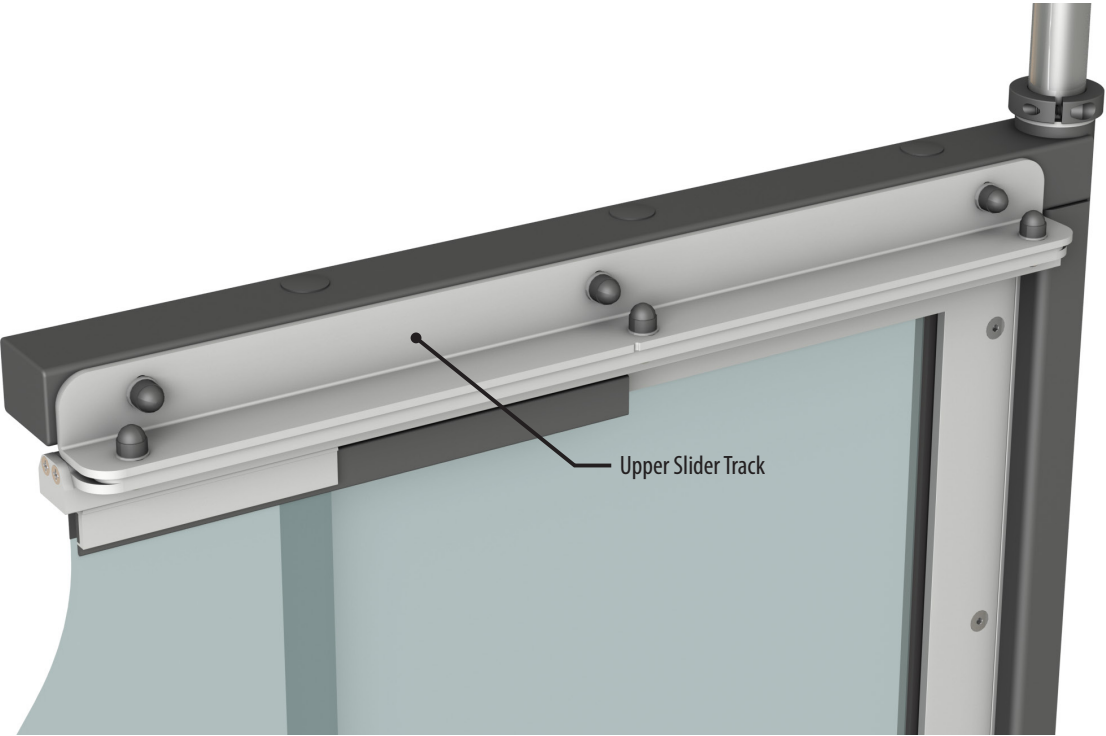
Figure 2 – Latch cover removal/replacement.

UPPER SLIDER TRACK ADJUSTMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram showing a vehicle seat and the AROWGUARD Slide System installed in the vehicle.

This document provides step-by-step instructions on how to make adjustments to upper slider track on the AROWGuard Slide System.



UPPER SLIDER TRACK ADJUSTMENT



TOOLS REQUIRED:

- Small flat blade screwdriver
- 7/16 in. Wrench
- 5/32 in. Hex key
- Feeler gauge

LATCH COVER REMOVAL

1. Using the small flat blade screwdriver, remove the plastic nut covers shown in **Figure 1**.

Retain the nut covers for reinstallation after adjustments have been made.

2. Loosen the nuts using 5/32 in. hex key and the 7/16 in. wrench. See **Figure 2** for hardware locations.

NOTE: Do not fully remove the nuts from the bolts.

3. Make horizontal adjustments to the slider track until the sliding sash is centered in the track.

See **Figure 3**.

Make vertical adjustments to the slider track until there is approximately a 1/64 in. gap between the mating surfaces of the track liner and sliding sash. See **Figure 3**. Use a feeler gauge to verify spacing.

NOTE: If additional vertical adjustment is required, refer to the Lower Slider Track Adjustment procedure.

4. Tighten the lock nuts to 75 in-lbs using the 5/32 in. hex key and the 7/16 in. wrench. See **Figure 2**.
5. Slide the sash completely forward and backward to verify that it operates smoothly and without vibration. See **Figure 4**.
6. Repeat steps 2 – 4 if additional adjustment is required.
7. Replace the plastic nut covers upon completion of adjustments. See **Figure 1**.

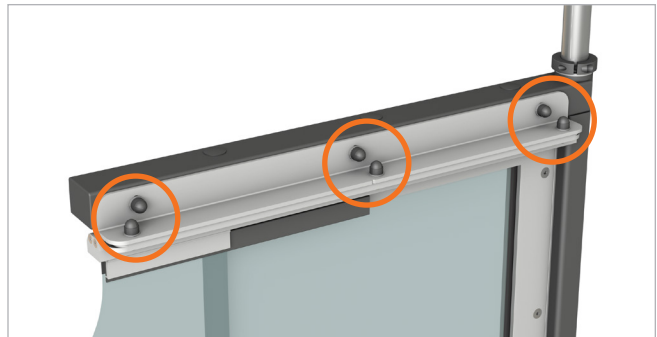


Figure 1 – Removal/replacement of plastic nut covers.

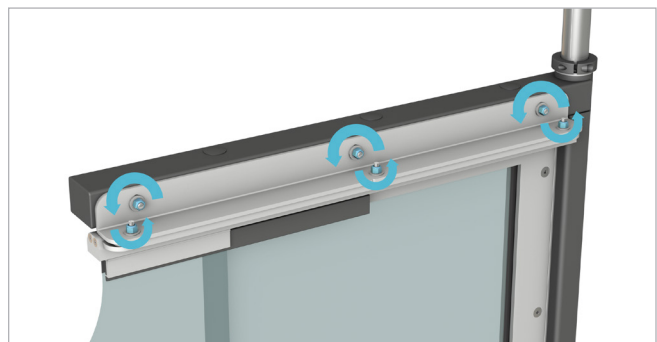


Figure 2 – Loosening/tightening of nuts.

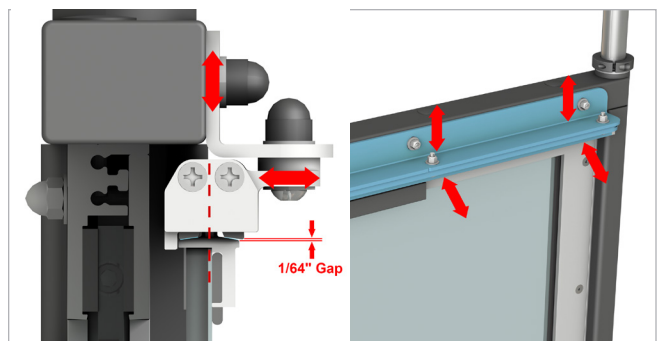


Figure 3 – Adjusting the slider track.



Figure 4 – Slide sash forward and backward.

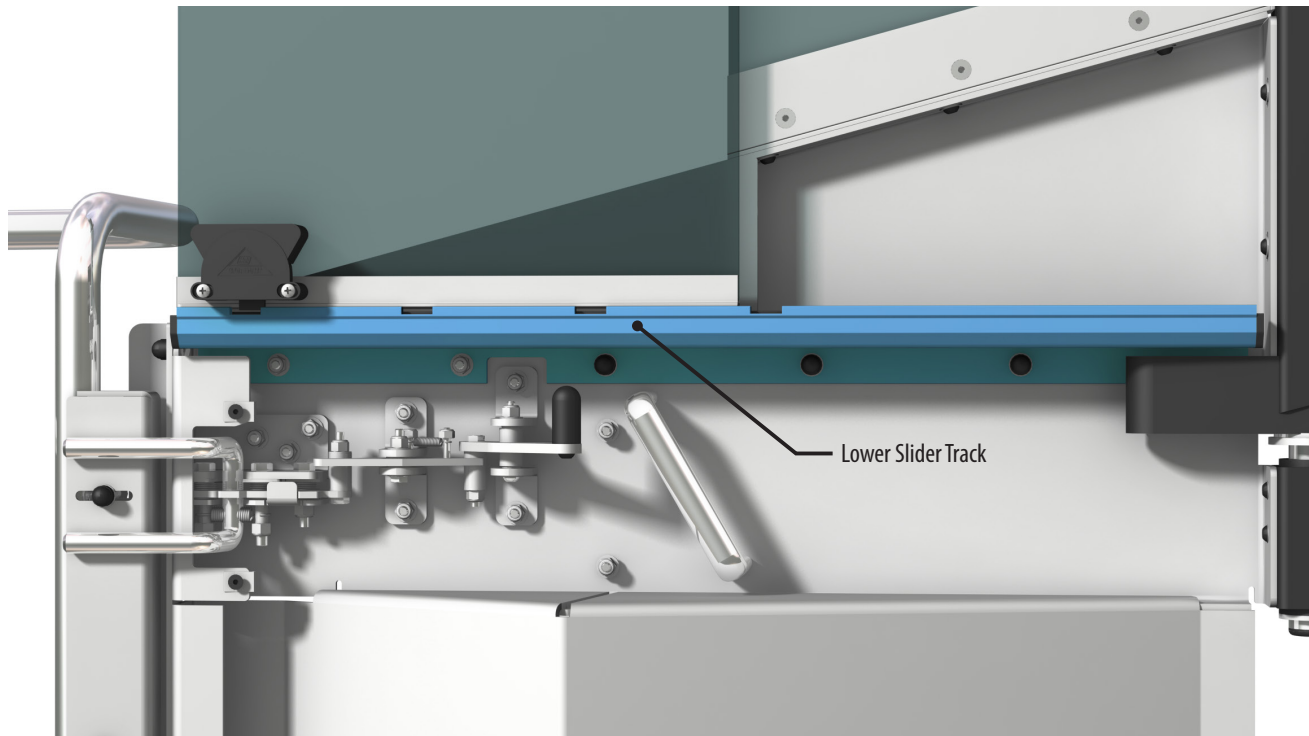
LOWER SLIDER TRACK ADJUSTMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A 3D rendering of the AROWGUARD Slide System, showing a driver's seat and the protective structure.

This document provides step-by-step instructions on how to adjust the lower slider track on the AROWGuard Slide System.

NOTE: Adjustments should only be made to the lower track if adjustments to the upper track are not found to be adequate.



LOWER SLIDER TRACK ADJUSTMENT



TOOLS REQUIRED:

- 1/8 in. Hex key
- 7/16 in. Wrench
- Small flat blade screwdriver

NOTE: Adjustments should only be made to the lower track if adjustments to the upper track are not found to be adequate.

LATCH COVER REMOVAL

1. Remove the latch cover. Reference the **Latch Cover Removal and Replacement** procedure for instructions.

LOWER SLIDER TRACK ADJUSTMENT

1. Remove the plastic nut covers using a small flat blade screwdriver. Reference **Figure 1** for their locations.
2. In order to lower/raise the lower slider track, loosen nuts using a 7/16 in. wrench. See **Figure 2** for location of nuts.

NOTE: Do not fully remove the nuts from the studs

3. Lower/raise the lower slider track to allow for proper readjustment of the upper slider track. See **Figure 3**.
4. After locating the slider track in an acceptable position, tighten nuts to 75 in-lbs. using the 7/16 in. wrench. See **Figure 2** for location of nuts.
5. Reinstall the plastic nut covers. See **Figure 1**.

LATCH COVER REPLACEMENT

1. Reinstall the latch cover. Reference the **Latch Cover Removal and Replacement** procedure for instructions.

UPPER SLIDER TRACK ADJUSTMENT

1. Readjust upper slider track. Reference the **Upper Slider Track Adjustment** procedure for instructions.

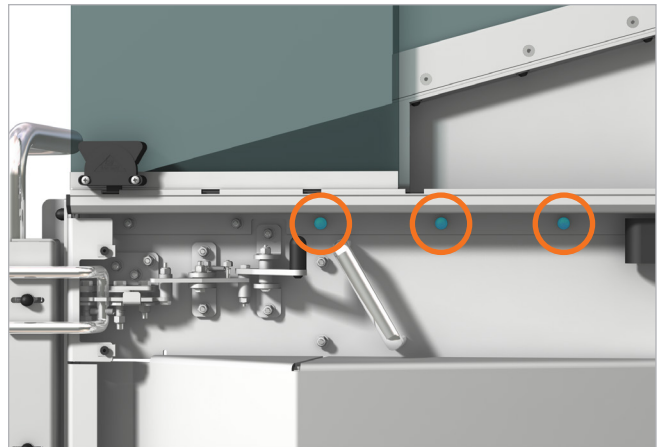


Figure 1 – Removal/replacement of plastic nut covers.

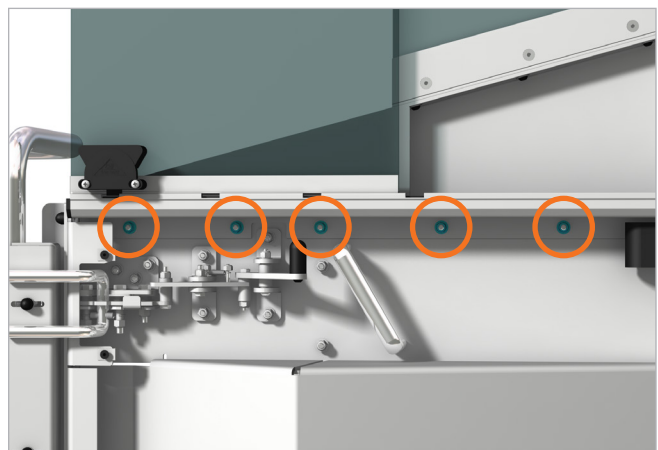


Figure 2 – Loosening/tightening of nuts.

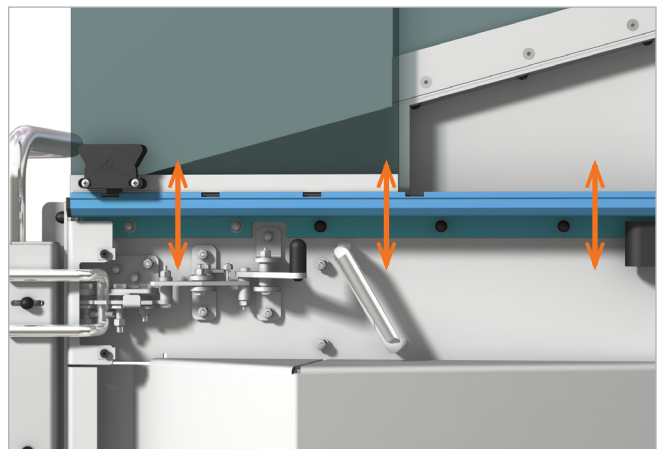


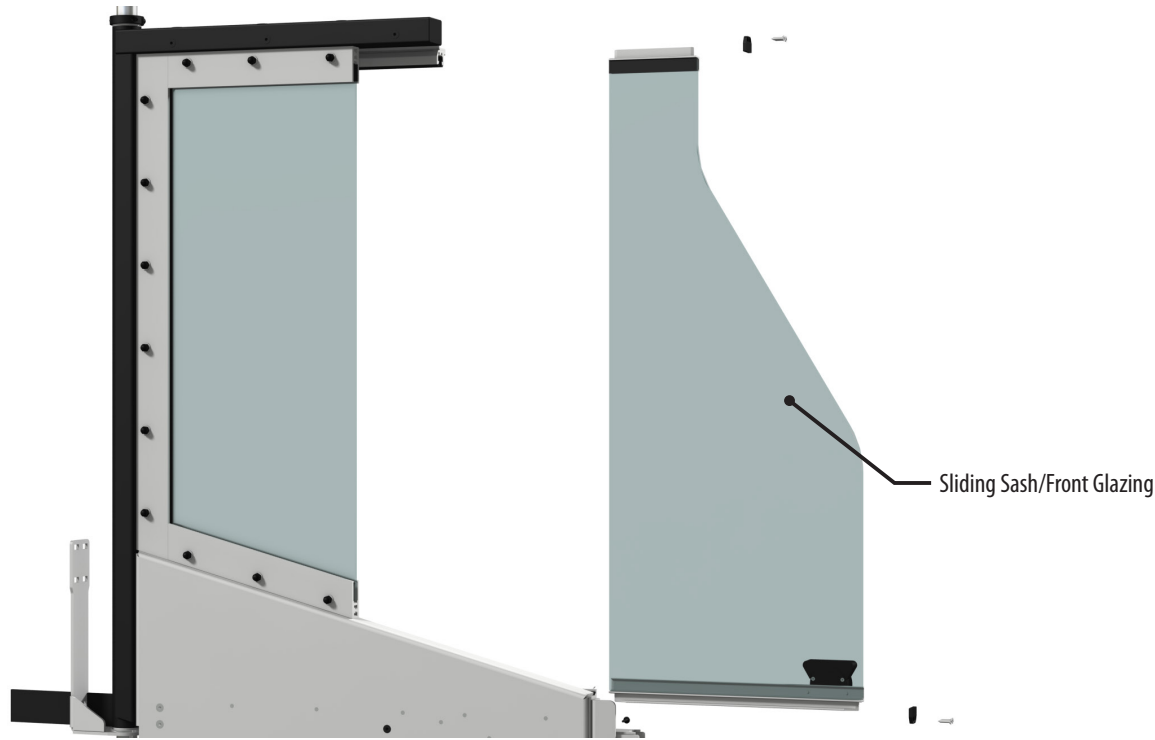
Figure 3 – Adjustment of slider track.

SLIDING SASH/FRONT GLAZING REMOVAL AND REPLACEMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue curved line above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram showing a vehicle seat and the AROWGUARD Slide System installed in the rear of the vehicle.

This document provides step-by-step instructions on how to remove and replace the sliding sash/front glazing on the AROWGuard Slide System.



SLIDING SASH/FRONT GLAZING REMOVAL AND REPLACEMENT



TOOLS REQUIRED:

- Torx T20 Screwdriver
- Loctite 243 Threadlocker

SLIDING SASH / FRONT GLAZING REMOVAL

1. Using the Torx T20 Screwdriver, remove the screws and stop plate on both the upper and lower slider tracks as shown in **Figure 1**. Retain the four (4) screws and two (2) stop plates for reinstallation after sash replacement.
2. Remove sliding sash by disengaging the rocker latch and sliding the sash gently outwards until it disengages from the top and bottom track. See **Figure 2**.

SLIDING SASH / FRONT GLAZING REPLACEMENT

1. Reinstall the sliding sash by sliding the lower T-rail into the lower slider track. Disengage the rocker latch and gently slide the sash inward. Align the upper T-rail and upper slide track. Continue sliding the sash inward until the slider sash stops can be reinstalled. See **Figure 2**.
2. Using the Torx T20 Screwdriver, install the two (2) stop plates and four (4) screws as shown in **Figure 1**. Tighten to a final torque of 23 in-lbs.

NOTE: Apply Loctite 243 Threadlocker to the screws prior to installation.

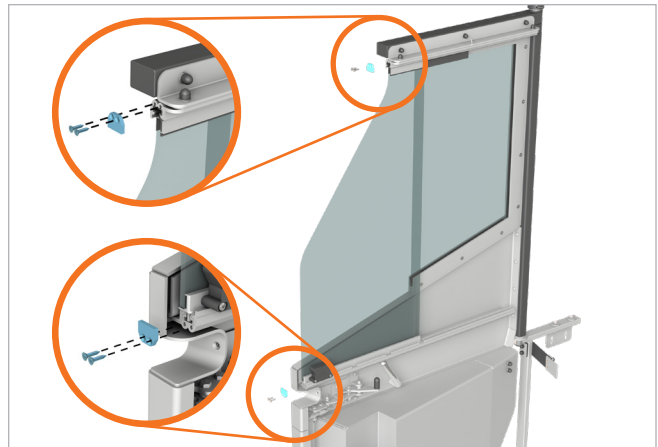


Figure 1 – Location of upper and lower stop plates.

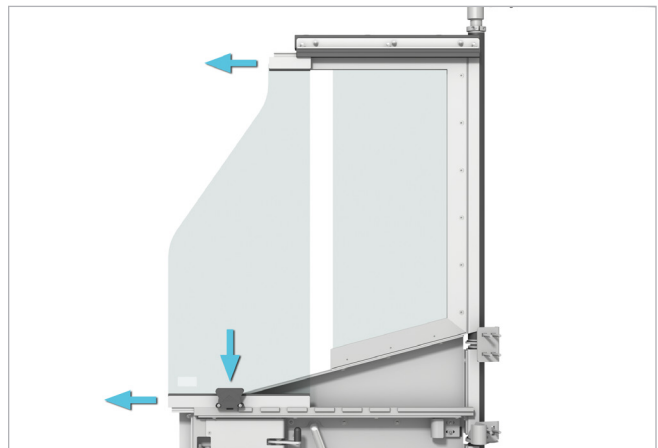


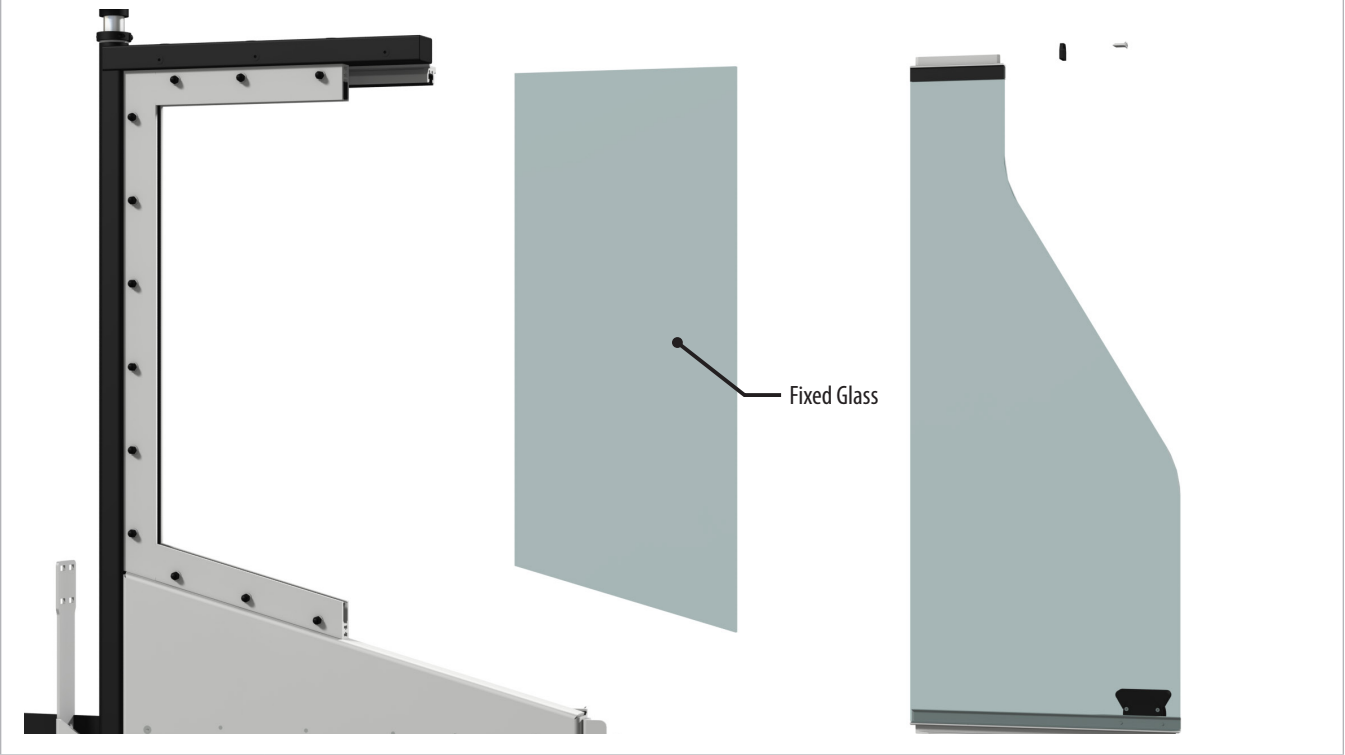
Figure 2 – Removal/replacement of sliding sash/front glazing.

FIXED GLASS REMOVAL AND REPLACEMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram showing a driver's seat and the AROWGuard Slide System, which is a protective structure that can slide forward and backward.

This document provides step-by-step instructions on how to remove and replace the fixed glass on the AROWGuard Slide System.



FIXED GLASS REMOVAL AND REPLACEMENT



TOOLS REQUIRED:

- 7/16 in. Wrench
- 5/32 in. Hex key
- Small flat blade screwdriver
- Plastic pry bar (used for automotive glass installation)
- Glass cleaner

SASH / FRONT GLAZING REMOVAL

1. Remove the sliding sash / front glazing. Reference the **Sliding Sash / Front Glazing Removal and Replacement** procedure for instructions.

UPPER SLIDER TRACK ASSEMBLY REMOVAL

1. Remove the plastic nut covers using a small flat blade screwdriver. Reference **Figure 1** for their locations.
2. Remove the nuts, washers and bolts using the 5/32 in. hex key and the 7/16 in. wrench. Reference **Figure 1** for their locations.

NOTE: Retain all hardware for reassembly.

FIXED GLASS REMOVAL

1. Using the 5/32 in. hex key and 7/16 in. wrench, loosen the bolts and acorn nuts as shown in **Figure 2**.
2. Insert the plastic pry bar for automotive glass installation between the glass and clamp, as shown by the **blue bar** in **Figure 3**.

Pry the glass clamp away from the glass using the motion shown in **Figure 3**. The intention of this step is to break the bond of the three (3) clamps from the glass in order to facilitate easy glass removal.

NOTE: It may be necessary to pry the glass away from both sides of the clamp frame.

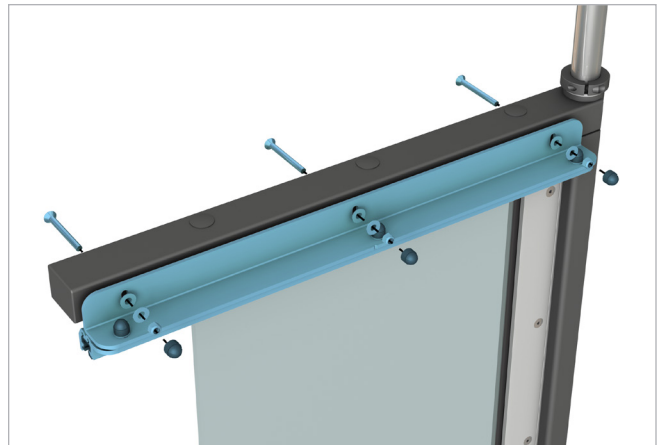


Figure 1 – Removal / replacement of nut covers, nuts, washers, and bolts.

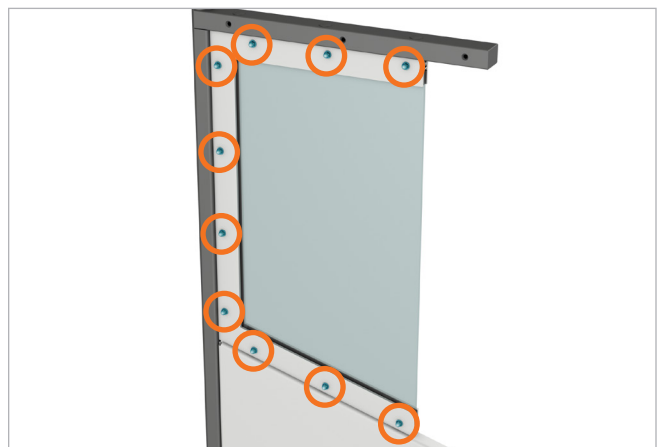


Figure 2 – Loosening / tightening of bolts and acorn nuts.

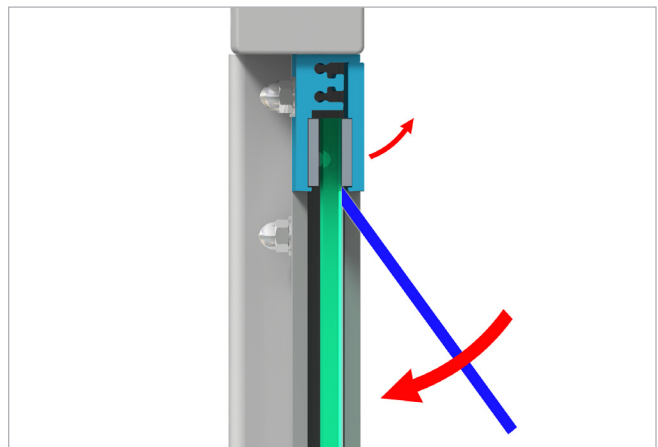


Figure 3 – Plastic pry bar position and motion.

3. Using the glass cleaner, generously spray along the edges of both sides of the glass to provide lubrication for removal.
4. Firmly grip glass and slide out of frame as shown in **Figure 4**.

FIXED GLASS REPLACEMENT

1. Using the glass cleaner, generously spray the entire glass channel to provide lubrication for glass installation.
2. Firmly grip glass and slide into the channel until it is fully seated into the frame. Reversal of **Figure 4**.
3. Using the 5/32 in. hex key and 7/16 in. wrench, tighten the bolts and nuts loosened in step 1 of **Fixed Glass Removal** to a final torque of 75 in-lbs.

Tighten bolts in the sequence shown in **Figure 5**.

UPPER SLIDER TRACK ASSEMBLY REPLACEMENT

1. Using the 5/32 in. hex key and 7/16 in. wrench, reattach and loosely tighten the bolts and nuts that were removed in step 1 of **Upper Slider Assembly Removal**. Reference **Figure 1** for their locations.

NOTE: Upper slider track will require adjustment after the sliding sash / front glazing is reinstalled.

SASH/FRONT GLAZING REPLACEMENT

1. Reinstall the sliding sash / front glazing. Reference the **Sliding Sash / Front Glazing Removal and Replacement** procedure for instructions.

UPPER SLIDER TRACK ASSEMBLY ADJUSTMENT

1. After reassembling all components, adjust the upper slider track assembly. Reference the **Upper Slider Track Adjustment** procedure for instructions.



Figure 4 – Removal/replacement of fixed glass.

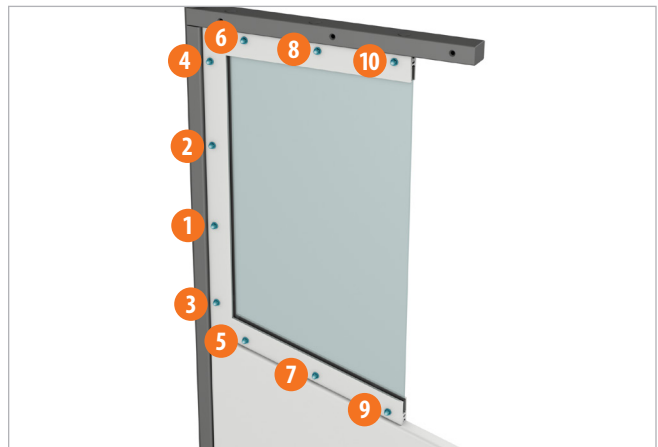


Figure 5 – Order sequence of bolt tightening.

SLIDER TRACK LINER REMOVAL AND REPLACEMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A diagram of the AROWGUARD Slide System, showing a vehicle seat and a protective structure with a glass panel.
<p>This document provides step-by-step instructions on how to remove and replace the slider track liners on the AROWGuard Slide System.</p> A detailed diagram of the AROWGUARD Slide System, showing the internal components and the slider track liners. Two lines point to the 'Slider Track Liners' on the right side of the structure. <p>Slider Track Liners</p>	

SLIDER TRACK LINER REMOVAL AND REPLACEMENT



TOOLS REQUIRED:

- Small flat blade screwdriver
- Vice grips or pliers

SASH / FRONT GLAZING REMOVAL

1. Remove the sliding sash / front glazing. Reference the **Sliding Sash / Front Glazing Removal and Replacement** procedure for instructions.

SLIDER TRACK LINER REMOVAL

1. Insert the small flat blade screwdriver between the aluminum slider track and plastic liner. Pry the edge of the plastic liner so that it slides out approximately 1/8 in. Reference **Figure 1** for slider track locations.
2. Using the vice grips or pliers, firmly grip the end of the plastic liner and pull to slide it out. Reference **Figure 2**.

NOTE: The plastic liner may only be removed by sliding out the end of the aluminum slider track.

SLIDER TRACK LINER REPLACEMENT

1. Insert the plastic liner into the aluminum slider track and push lightly. If aligned properly it should freely slide in as shown in **Figure 3**.
2. Continue pushing the plastic liner until it is flush with the edge as shown in **Figure 4**.

SASH/FRONT GLAZING REPLACEMENT

1. Reinstall the sliding sash / front glazing. Reference the **Sliding Sash / Front Glazing Removal and Replacement** procedure for instructions.

UPPER SLIDER TRACK ASSEMBLY ADJUSTMENT

1. After reassembling all components, adjust the upper slider track assembly. Reference the **Upper Slider Track Adjustment** procedure for instructions.

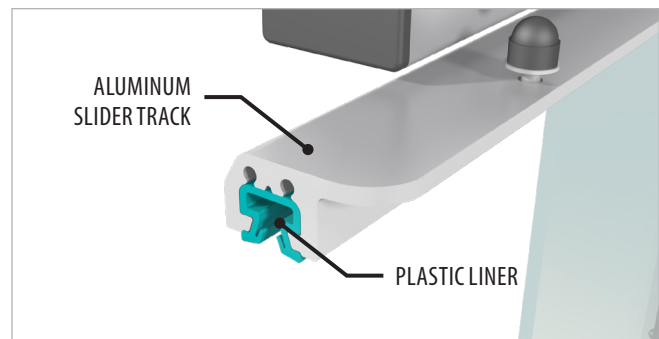


Figure 1 – Slider track locations.

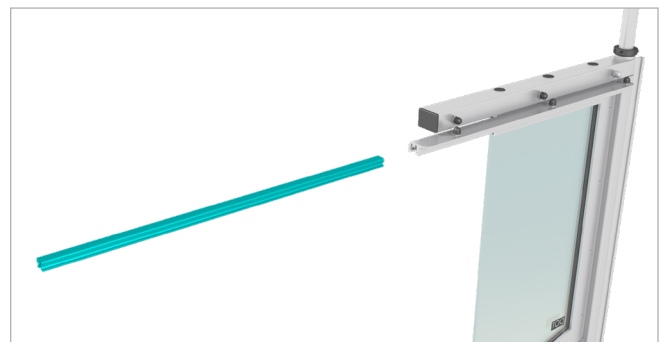


Figure 2 – Removal / Installation of plastic liner.

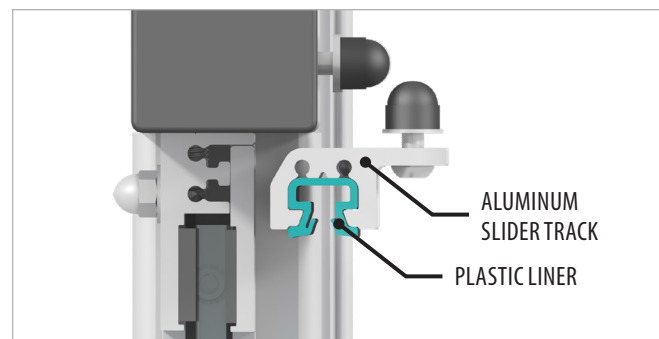


Figure 3 – Plastic liner aligned and nested in aluminum slider track.



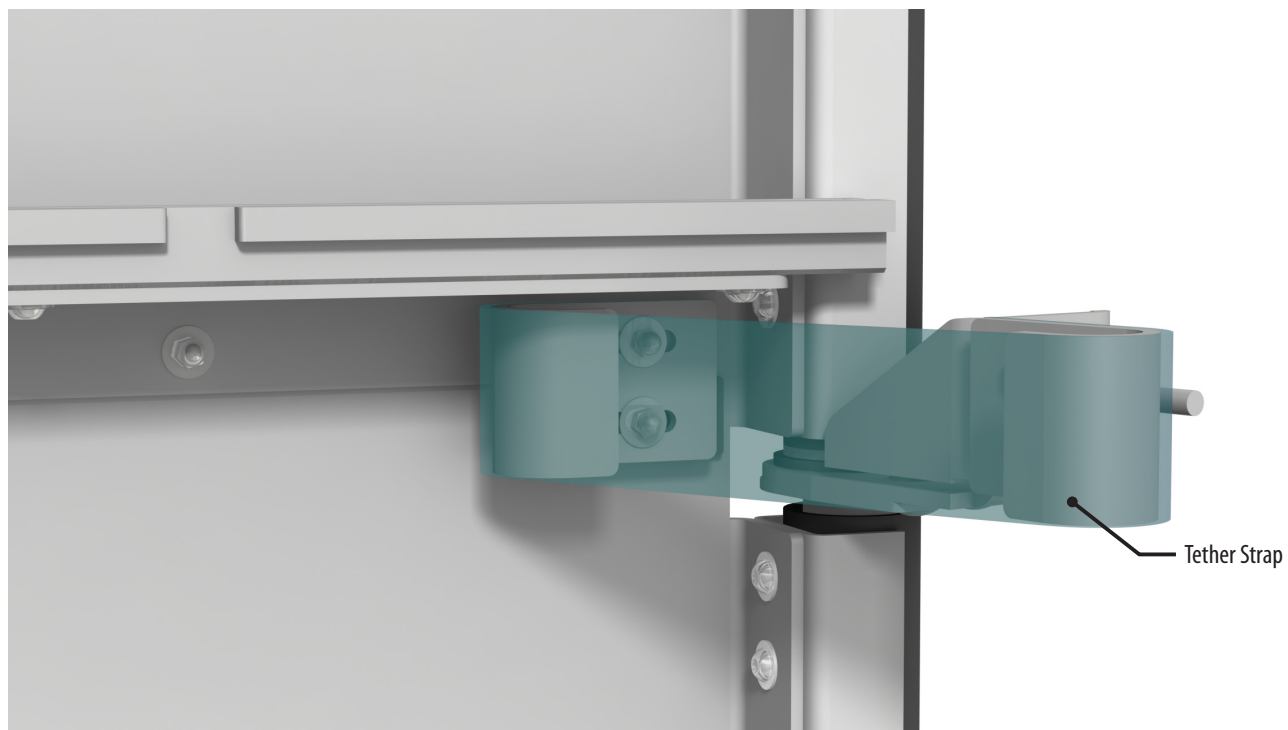
Figure 4 – Plastic liner flush with aluminum slider track.

TETHER STRAP ADJUSTMENT



Product:	The logo for AROWGUARD DRIVER PROTECTION SYSTEMS, featuring a blue swoosh above the text 'AROWGUARD' and 'DRIVER PROTECTION SYSTEMS' below it.
Model:	Slide System A 3D diagram of the AROWGUARD Slide System, showing a vehicle seat and the protective structure.

This document provides step-by-step instructions on how to make adjustments to the tether strap on the AROWGuard Slide System.



TETHER STRAP ADJUSTMENT (STYLE #1)



TOOLS REQUIRED:

- 7/16 in. Wrench

TETHER STRAP ADJUSTMENT

1. Using the 7/16 in. wrench, remove the nuts and washers located behind the tether strap. See **Figure 1** for hardware location.
2. Remove the tether strap and tether strap retainer from the door.

To tighten the strap: place back onto the door utilizing the right hand slots.

To loosen the strap: place back onto the door utilizing the left hand slots.

Refer to **Figure 2** for location of slots.

3. Once the tether strap tension is satisfactory, use the 7/16 in. wrench to reinstall the nuts and washers. Tighten to a final torque of 75 in-lbs. See **Figure 1** for hardware location.

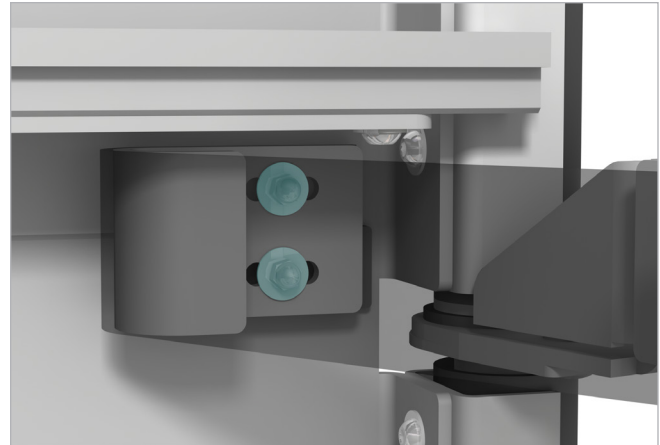


Figure 1 – Nuts and washers behind strap.

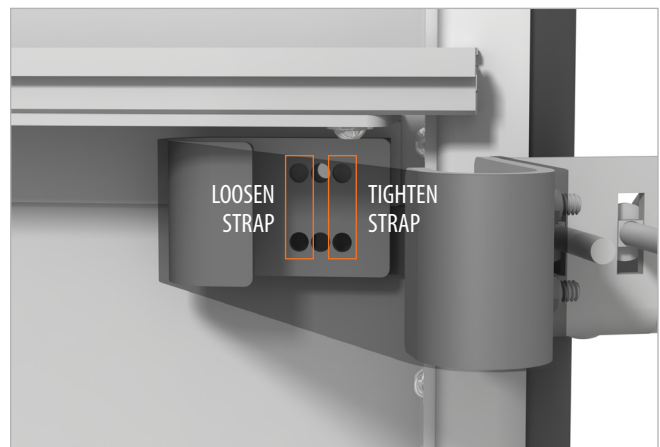


Figure 2 – Slots to loosen or tighten strap.

TETHER STRAP ADJUSTMENT (STYLE #2)



TOOLS REQUIRED:

- 3/16 in. Hex Key
- ½ in. Wrench

TETHER STRAP ADJUSTMENT

1. Using the 3/16 in. hex key and ½ in. wrench, loosen the nuts and washers located behind the tether strap. See **Figure 1** for hardware location.
2. Remove the tether strap and tether strap retainer from the door.

To tighten the strap: slide the bracket away from the hinge post.

To loosen the strap: slide the bracket towards the hinge post.

Refer to **Figure 2** for location of slots.

3. Once the tether strap tension is satisfactory, use the 3/16 in. hex key and ½ in. wrench to reinstall the nuts and washers. Tighten to a final torque of 135 in-lbs. See **Figure 1** for hardware location.



Figure 1 – Nuts and washers behind strap.



Figure 2 – Slots to loosen or tighten strap.