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## PREVENTATIVE MAINTENANCE

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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

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

Upper Glass Stop

Lower Glass Stop
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

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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.
BUS STYLE 1
BUS STYLE 2

Inspect Mounting Hardware
AROWGuard Slide System Service Procedures
Phone: 715.693.6020 | Fax: 715.693.7108 | askarowglobal@arowglobal.com
INSPECT MOUNTING HARDWARE

BUS STYLE 3
NOTE: Cover plate must be removed to access this hardware.
INSPECT MOUNTING HARDWARE

BUS STYLE 5
### Service & Maintenance Procedures

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The following pages are the Service and Maintenance Procedures for the AROWGuard Slide System.
# GLASS CLEANING INSTRUCTIONS

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<tbody>
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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.
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

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

![Latch Cover](image_url)
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.
LATCH COVER REMOVAL AND REPLACEMENT (STYLE #2)

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.
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

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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.
# Sliding Sash/Front Glazing Removal and Replacement

**Product:**

| AROWGUARD |
| DRIVER PROTECTION SYSTEMS |

**Model:**

Slide System

---

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.
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**.
   
   **NOTE:** Do not fully remove the nuts from the bolts.
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.
This document provides step-by-step instructions on how to remove and replace the slider track liners on the AROWGuard Slide System.
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.
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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.