

Inspection and Maintenance Instructions for Wheelchair Securement and Occupant Restraint Systems



The Sure-Lok products that you select must be suitable for your particular application, and shall be inspected before each use. All products are designed and intended to be installed and operated with the occupant in a forward-facing orientation within the vehicle. Installation of products that are not suitable or are installed in an unsuitable manner may compromise proper securement of the wheelchair and occupant, causing injury or death to the occupant, other passengers or driver and wheelchair damage. Always read and understand the operation instructions supplied with the product.

INSPECTION REQUIREMENTS

General

Step 1: Replace the entire strap or belt assembly if any defects such as cut, frayed, contaminated or damaged webbing are found.

Step 2: Replace the entire strap or belt assembly if any improperly functioning buckles/hardware, broken/worn parts are found.

Step 3: Check all floor, wall and shoulder anchorages including fittings and mounting hardware to ensure they secure properly and replace if damaged.

Auto-Locking Retractor Systems

Step 1: Confirm proper retractor operation. Pull the web out of the retractor fully and allow no more than 1/2" of web to slowly retract back into the retractor housing. Pull the web again and the retractor will immediately lock. After the retractor web is locked, it will be able to retract into the retractor, but if it is pulled, it will immediately lock again. Web can be pulled out of the retractor only when it is fully retracted or when the red release lever is pressed.

Step 2: When the retractor is locked, press the red release lever to release the retractor and loosen the belt.

Locking Retractor Systems

Step 1: Confirm proper retractor operation. Press and hold the red release lever and pull the web out of the retractor fully. Release the lever and the retractor should lock immediately. Press the red release lever and allow the webbing to retract a few inches. Release the lever and the retractor should lock immediately.

Step 2: Pull firmly on the webbing to ensure the retractor is locked.

FE500 Manual Series Systems

Step 1: Press and hold the spring-loaded lever of the Cam Buckle and pull on the D-ring or S-hook to extend the webbing. Release the lever and pull firmly on the webbing to ensure it is locked.

Step 2: Press and hold the lock tab on the front of the Overcenter Buckle and fully rotate the handle release lever to loosen the webbing. Pull on the webbing that comes out of the bottom of the buckle to extend the webbing. Close the lever and pull firmly on the webbing to ensure it is locked.

Step 3: Pull and hold the handle release lever of the Ratchet Buckle and fully rotate the handle. Pull on the webbing to extend its length. Pull the lever again and rotate the handle to the closed position. Ratchet the handle 2 to 4 turns to tighten the webbing. The ratchet shall not have less than 2 and no more than 4 turns on the spool to function properly. With the handle in the closed position, pull firmly on the webbing to ensure it is locked.

Occupant Restraint Systems

Retractable and Non-Retractable Occupant Restraint Systems include several connection types, which must be inspected before each use. Retractable Occupant Restraints offer automatic adjustments similar to auto seat belts. The inspection criteria are described in the following steps.

Lap Belt Buckle: The push-button buckle and buckle connector are used on the lap belt and connect at the occupant's hip. Ensure the buckle and connector are not missing parts or cracked and function properly.

Snap Hook and D-Ring: The snap hook anchors the lap belt by attaching to the D-ring located near the retractor on both rear wheelchair tie-downs. Ensure the keeper on the snap hook is not missing or bent and functions properly.

Triangular Fitting and Stud Fitting: The triangular fitting anchors the lap belt by attaching to the stud fitting located on the retractor case on both rear wheelchair tie-downs. Ensure the nylon bushing on the stud fitting is not missing, cracked or bent and functions properly.

Shoulder Belt: The triangular fitting anchors the shoulder belt by attaching to the stud on the lap belt buckle connector after the two lap belt assemblies are joined together. Ensure the nylon bushing on the stud is not missing or cracked. Ensure the shoulder and lap belt webbing adjusters are not missing any components, cracked or bent and functions properly.

Occupant Restraint Retractor: To release the webbing from the retractor, pull several feet of webbing very slowly out of the retractor. Allow a small amount (about 1") of webbing to slowly retract back into the housing and then, firmly pull it. This will lock the retractor. Repeat this process several times until the webbing is fully retracted into the housing. As the webbing slowly retracts into the housing, the retractor releases to allow the webbing to be slowly pulled out again.

MAINTENANCE INSTRUCTIONS

Step 1: Clean strap and belt webbing with mild soap and water. Keep fully extended until completely dry. Periodically lubricate mechanical components at any moving metal-to-metal joints.

Step 2: Store straps and belts in a clean container when not in use. Environmental conditions such as dirt, mud, sand and water will reduce the service life and proper functioning of the system. Prevent contamination of webbing from chemicals, especially battery acid.

Step 3: Ensure the threaded components are properly tightened. Check and clean the floor anchorages and/or tracks to ensure the fittings properly lock.

Step 4: Periodically lubricate Cam, Overcenter and Ratchet Buckles and fittings with a silicone-based lubricant at all moving metal-to-metal joints.

Step 5: Replace any system components, including anchorages, in use during a collision that requires the vehicle to be towed from the accident site.

INSPECTION CHECKLIST

The following items should be inspected before each use:

- Inspect belts for cut, frayed, contaminated or damaged webbing
- Inspect all floor, wall and shoulder anchorages including fittings and mounting hardware to ensure they secure properly
- Inspect occupant restraints and wheelchair tie-downs for proper retractor locking and operation
- Inspect all buckles and connection types for cracked, bent or missing parts
- Inspect any parts or accessories not specifically indicated on this instruction that are pertinent to a safe securement system