

Recall 21V-902 Spring Assist Ramp Door Assembly Repair Instructions

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- 1. Items required
- 2. Component Identification
 - a. Nylon Bushing Recall qualified Proper Installation Recall Disqualified
 - b. Nylon Bushing Recall Qualified Improper Installation Recall Required
 - c. Aluminum Bushing Recall Disqualified
- 3. Location on Trailer
- 4. Proper Installation
 - a. BOM
 - b. Visual Identification
- 5. Repair Methods
 - a. With Spring Box
 - b. Without Spring Box



1. Items Required for Repair

a. Hardware list.

#	FILE NAME	MATERIAL	PART NO	DESCRIPTION	QTY	LENGTH
1	90108A413	Steel	90108A413	Zinc-Plated Steel USS Washer	2	0.75" OD x 0.31" ID
2	91309A542	Steel	91309A542	Zinc-Plated Steel Hex Head Screw	1	0.25"-20 X 1.00"
5	Wire Rope	Steel	N/A	Wire Rope Assembly	1	N/A
3	94639A569	Nylon 6/6 Plastic	94639A569	Off-White Nylon Unthreaded Spacer	1	0.50" OD x 0.25" ID
4	95615A120	Steel	95615A120	Steel Nylon-Insert Locknut	1	0.25"-20 GR5

Note – Wire Rope Assembly already installed. On list for assembly reference only

b. Installation Sequence



- c. Tools Needed
 - i. Reference specific repair procedure for tool list below.
- Refer to the following component identification and Recall Qualifications:

 a. Nylon Recall Qualified Defect Free State.





b. If Bushings are free of defect, replacement of bushing is not required. Hardware must match the following installation sequence.



c. Nylon - Recall Qualified - Defective State





- d. Former Component Excluded from Recall
 - i. Aluminum Bushing featuring Taper on one face



- 3. Location on Trailers:
 - a. Bushings are attached towards the rear corners of the ramp door as shown.



- 4. Repair: REPAIR INVOLVING LOADED SPRING ASSIST ASSEMBLY MUST BE PERFORMED BY TRAINED OR AUTHORIZED REPAIR CENTERS ONLY.
 - a. Tools Required
 - i. Bull Nose Wire Gripper
 - ii. 1" ratchet strap (500lb WLL)
 - iii. Vise Grips
 - iv. 3/16" or 1/4" diameter hardened bunch
 - v. 2-7/16" box end wrenches
 - vi. Tension rods for spring assist



b. Units with Spring Box



1. Repair instructions:

- a. Close Ramp Door
- b. Set Bull Nose wire gripper over spring assist line as shown.
- c. Utilize Ratchet strap from wire gripper to D-Rings in floor. Ratchet to remove tension as show.
- d. Use 7/16" wrenches to remove 1/4x20 hardware.
- e. With Cable free of bracket, Clamp cable ferrule with cable clamping vise grips. Insert 1/8" hardened punch into center hole of bushing and apply a downward force to pry the bushing from eyelet.



f. Upon Bushing release, remove vise grips from ferrule.





- g. reassemble in the following procedure.

h. Tighten all fasteners on assembly to resistance and apply ¼ turn to torque
 i. Hardware assembly should resemble the following upon correct installation



- i. Remove ratchet strap per manufacturer directions.
- j. Repeat steps b,c d,e,f,g on opposite spring assembly.
- k. Repeat operation on other side.
- I. Slowly lower ramp door.
- m. Slowly raise ramp door affirming wire rope is properly coiling on spool.i. If wire rope does not recoil properly, repeat steps I,M.
- n. Repair complete.



c. Units without Spring Box



- 1. Repair instructions:
 - a. Close Ramp Door
 - b. Using appropriate tension rods properly relieve tension on tension spring.
 - c. Use 7/16" wrenches to remove 1/4x20 hardware.
 - d. With Cable free of ramp door bracket, Clamp cable ferrule with cable clamping vise grips. Insert 3/16" or 1/4" diameter hardened punch into center hole of bushing and apply a force to pry the bushing from eyelet.





e. Upon Bushing release, remove vise grips from ferrule.



f. Reassemble in the following procedure.



- g. Tighten all fasteners on assembly.
 - i. Hardware assembly should resemble the following upon correct installation



- h. Repeat steps c,d,e,f,g, on opposite spring assembly.
- i. Using appropriate tension rods properly re-tension spring.
- j. Slowly lower ramp door
- k. Slowly close ramp door affirming wire rope is properly coiling on spool.i. If wire rope does not coil properly, repeat steps g,h.
- I. Repair complete.