# **Cargo Management**



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QUESTIONS? CALL CUSTOMER SERVICE 1-800-222-6283

## INSTALLATION INSTRUCTIONS

**LSR90 SERIES RAMPS** 



The LSR 90 fits full sized cargo vans and box trucks.

**IMPORTANT:** IT IS IMPORTANT THAT THE ENTIRE INSTALLATION INSTRUCTIONS BE READ THOROUGHLY BEFORE PROCEEDING WITH RAMP INSTALLATION.

## **AWARNING**

Link products must be installed by a trained technician when being placed into an Electric Vehicle (EV). Electric Vehicles have higher voltage batteries and cables, and drilling into Electric Vehicles may cause serious bodily harm and possibly death.

Note: Link is not responsible for optional configurations or equipment that restrict the installation of the product in any way. Consult OEM body builder guides for additional installation guidelines.

#### 1. INTRODUCTION

Thank you for choosing a Link Cargo Management Products LSR90 Ramp. We want to help you to get the best results from the ramp and to operate it safely. This manual contains information to assist you with its installation. The manual is intended solely for use with this product.

All information in this manual is based on the latest information available at the time of printing. Link Manufacturing reserves the right to change its products or manuals at any time without notice. Contact Link CMP at (800) 248-3057 for information on recent changes to products.

Damaged components should be returned to Link with a pre-arranged Returned Goods Authorization (RGA) number through the Customer Service Department. The damaged component may then be replaced if in compliance with warranty conditions.

#### 2. SAFE WORKING PRACTICES:

## **ACAUTION**

- Wear appropriate gloves, eyeglasses, ear protection, and other safety equipment when handling parts.
- Practice safe lifting procedures. Consider size, shape, and weight of assemblies. Obtain help or the assistance of a crane when lifting heavy assemblies. Make certain the path of travel is clear.

#### 3. INSTALLATION GUIDELINES

- 3.1. In order for this LSR 90 Ramp to operate properly, it must operate in the parameters specified by Link.
- 3.2. The installer must verify the Ramp is configured properly.
- 3.3. No alteration of any Link Ramp components are permitted without proper authorization from qualified Link personnel.
- 3.4 The installer must ensure the movable parts have the proper clearance to function before installation. See Figure 1 below. In the stowed position, the wheel on the pivot side of the ramp will need approximately a 7.5 inch radius of clearance from the pivot center to operate properly.
  - It is recommended that the ramp be positioned and moved through the full 180 degrees of motion to ensure proper clearance before drilling holes. This activity requires two people.
- 3.5 The inside catch may not be useable due to underfloor components such as batteries in electric vehicles. Verify that there is clearance to mount the inside catch if it is required.

## **AWARNING**

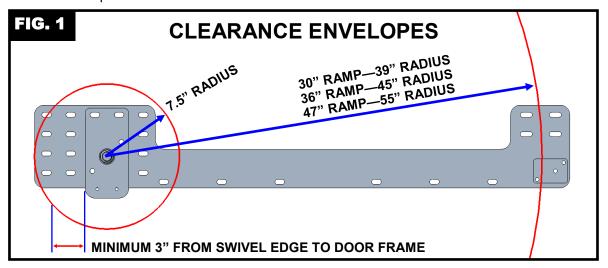
- Proper tightening of fasteners is important to the performance and safety of this product.
- Make certain the vehicle is placed in park on a flat surface, and the parking brake is engaged.
- To insure safe operation, ramp shall not be operated without installation of pinch point guards and handles.

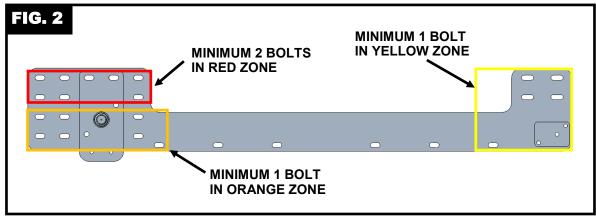
#### 4. Installation

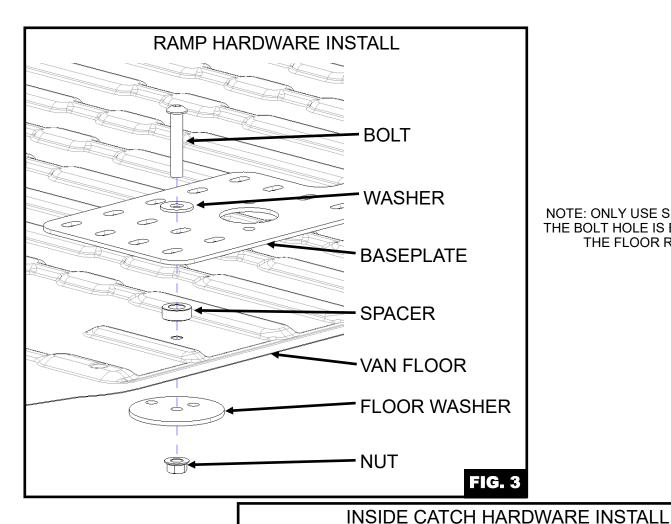
Note: Installation of the LSR90 will vary depending the vehicle model and configuration. Due to variables in vehicles, the fit of the LSR90 should be evaluated before beginning the installation. Some vehicles with a spare tire winch hoist will have a crank insert location in the rear of the vehicle. Do not mount the ramp plate over this feature unless losing access to it is acceptable in your application.

**Note:** Before drilling, verify the holes are accessible from underneath the vehicle and will not damage vehicle components

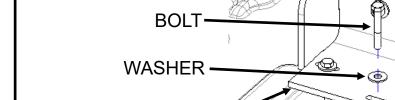
- 4.1 Park the vehicle on a flat, level surface with the parking brake engaged.
- 4.2 Place the ramp in the rear of the vehicle. Use a fork lift or assistance to safely move the ramp.
- 4.3 Position the ramp in the approximate mounting location. Move the ramp through the full range of motion to ensure proper clearance between wheel wells and the door frame. Support the ramp through the range of motion because the ramp is not secured to the floor. See Figure 1 for clearance envelopes. Failure to follow clearance envelopes will result with interference with vehicle components. The ramp may not be able to swivel or deploy.
- 4.4 Drill 4 to 6 17/32" holes to secure the ramp to the floor. See **Figure 2** for hole locations. **Ensure there are no interferences with under body components.** Space out bolts across the mount pattern. Use etching primer on raw metal surface of holes.
- 4.5 Use 1/2" x 2 3/4" bolts to secure the ramp to the floor. Place spacers between the baseplate and the vehicle floor if the bolt holes fall between the ribs of the floor. Place floor washers underneath the vehicle. See **Figure 3** for component layout.
- 4.6 Swivel the ramp into the vehicle to locate the inside catch. Ensure there are no interferences with under body components. Drill (3) 9/32" holes centered in the slots. Use etching primer on the raw surfaces of the holes.
- 4.7 Mount the inside catch using (3) 1/4" x 1 3/4" bolts, 1/4" washers, and 1/4" nuts. Use spacers if required. See Figure 4 for component layout. The inside catch may be unmountable due to underfloor components such as batteries in electric vehicles.
- 4.8 Confirm smooth operation and clearances.





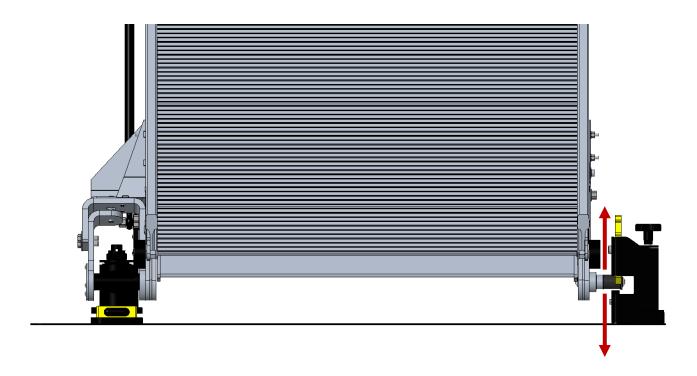


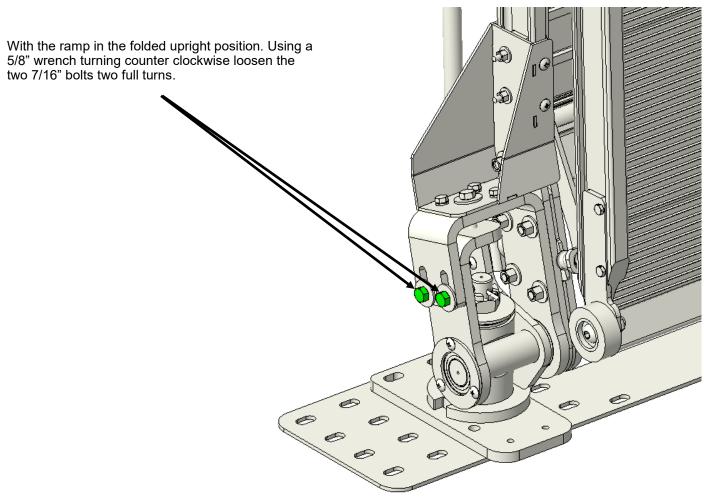
NOTE: ONLY USE SPACER IF THE BOLT HOLE IS BETWEEN THE FLOOR RIBS



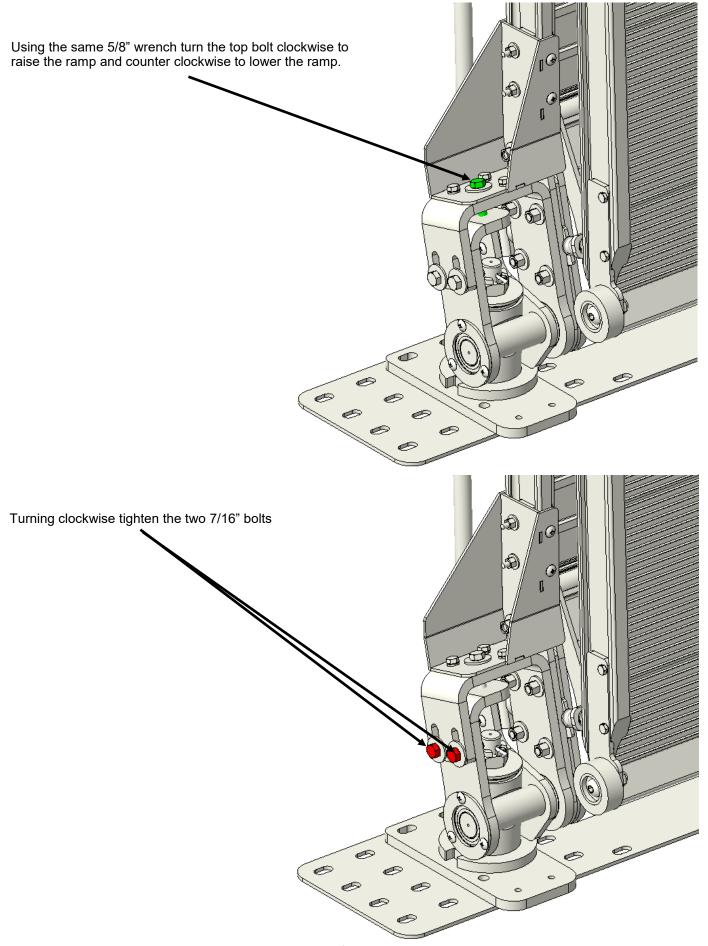
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## RAMP LEVELING ADJUSTMENT PROCEDURE

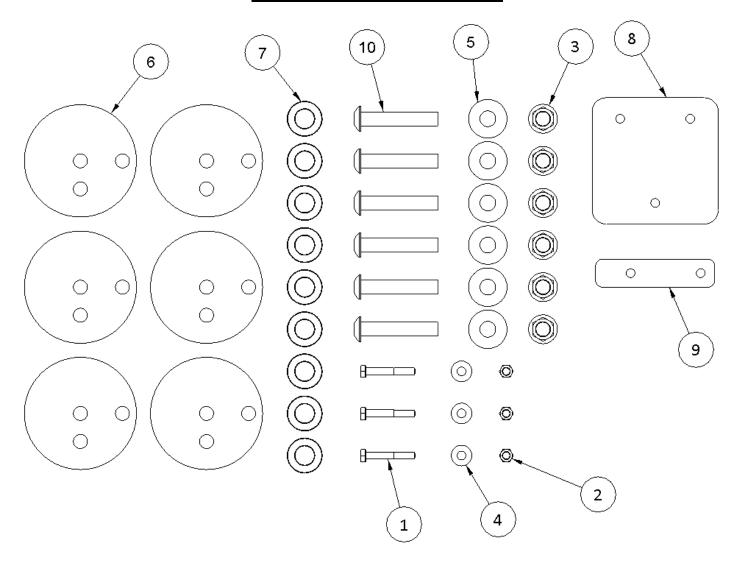




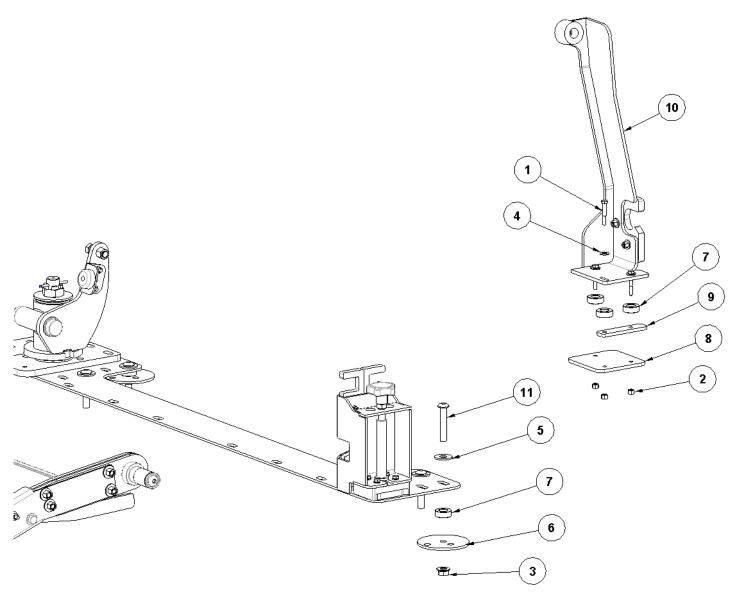
## RAMP LEVELING ADJUSTMENT PROCEDURE CONT.



## **INSTALLATION FASTENERS**



ITEM	DESCRIPTION	QTY
1	1/4 X 1 3/4 UNC HEX CAP SCR	3
2	1/4 UNC HEX NYLOCK NUT	3
3	1/2 UNC FLANGE NUT	6
4	1/4 WASHER	3
5	1/2 WASHER	6
6	WASHER-FLOOR SUPPORT	6
7	SPACER-MOUNT	9
8	SUPPORT- UNDER FLOOR, INSIDE CATCH	1
9	SUPPORT- UNDER FLOOR, INSIDE CATCH	1
10	1/2 X 2 3/4 UNC BUTTON HD CAP SCR	6



ITEM	DESCRIPTION	QTY
1	1/4 X 1 3/4 UNC HEX CAP SCR (GR 5)	3
2	1/4 UNC HEX NYLOCK NUT (GR B)	3
3	1/2 UNC FLANGE NUT (GR G)	6
4	1/4 TYPE A PLAIN WASHER	3
5	1/2 TYPE A PLAIN WASHER	6
6	WASHER-FLOOR SUPPORT	6
7	SPACER-MOUNT	9
8	SUPPORT- UNDER FLOOR, INSIDE CATCH	1
9	SUPPORT- UNDER FLOOR, INSIDE CATCH	1
10	ASSEMBLY-INSIDE CATCH	1
11	1/2 X 2 3/4 UNC SOCKET BUTTON HD CAP SCR	6



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