



# INSTALLATION INSTRUCTIONS

## LSR90 SERIES RAMPS



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**QUESTIONS?  
CALL CUSTOMER  
SERVICE  
1-800-248-3057  
[www.linkmfg.com](http://www.linkmfg.com)**

The **LSR 90** fits Mercedes Benz Sprinters, Ford Transits mid and high roof, Nissan NV high roof, and Ram Promasters.

UNIT WEIGHT: 300-350 LB.

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

## 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:

### CAUTION

- 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

- 4.1. In order for this LSR 90 Ramp to operate properly, it must operate in the parameters specified by Link.
- 4.2. The installer must verify the Ramp is configured properly.
- 4.3. No alteration of any Link Ramp components are permitted without proper authorization from qualified Link personnel.

### WARNING

- Proper tightening of fasteners is important to the performance and safety of this product.
- Make certain the vehicle is in placed in park on a flat surface, and the parking brake is engaged.

### WARNING

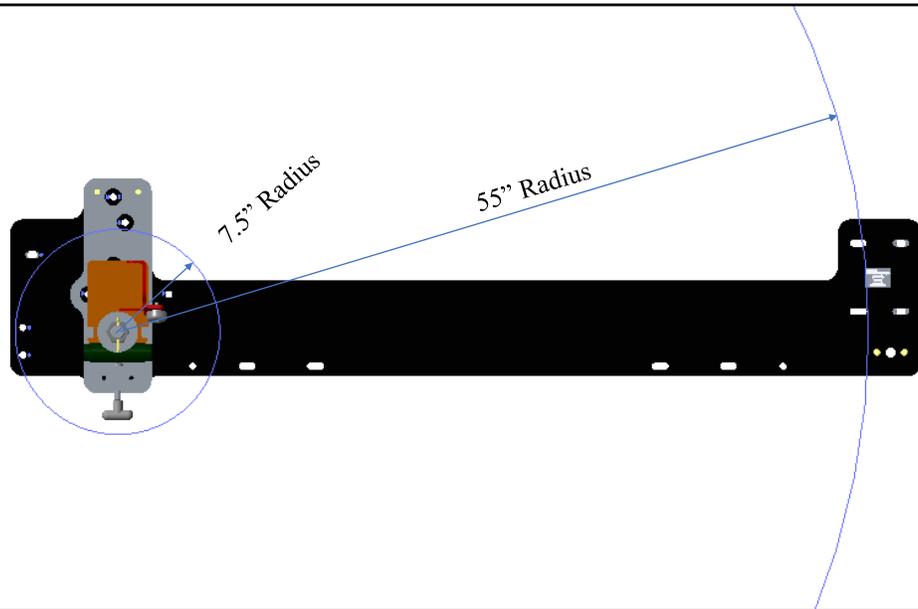
- To insure safe operation, ramp shall not be operated without installation of pinch point guards and handles.
- See FIG 7 & 8 for proper installation procedure.

- 4.4 The following pages show install locations for a variety of cargo van makes and models. Dimensions are approximate and can vary depending on particular build packages. The installer must ensure the movable parts have the proper clearance to function before installation. See Figure 1 below.

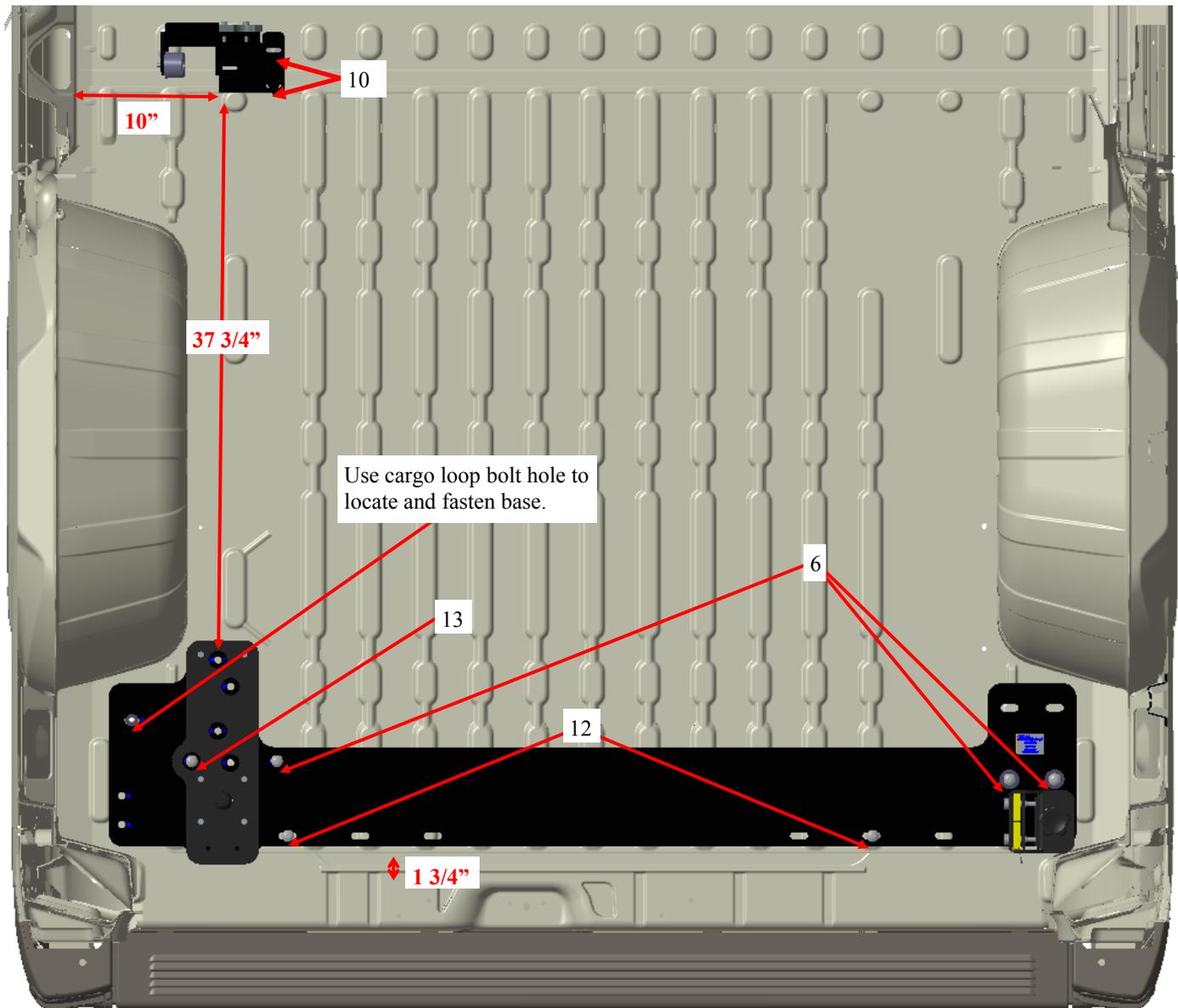
In the stowed position, the wheel on the pivot side of the ramp will need approximately a 7.5 inch radius of clearance from the pivot center to operate properly. The ramp will need approximately a 55 inch radius of clearance to operate properly.

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.

FIG. 1



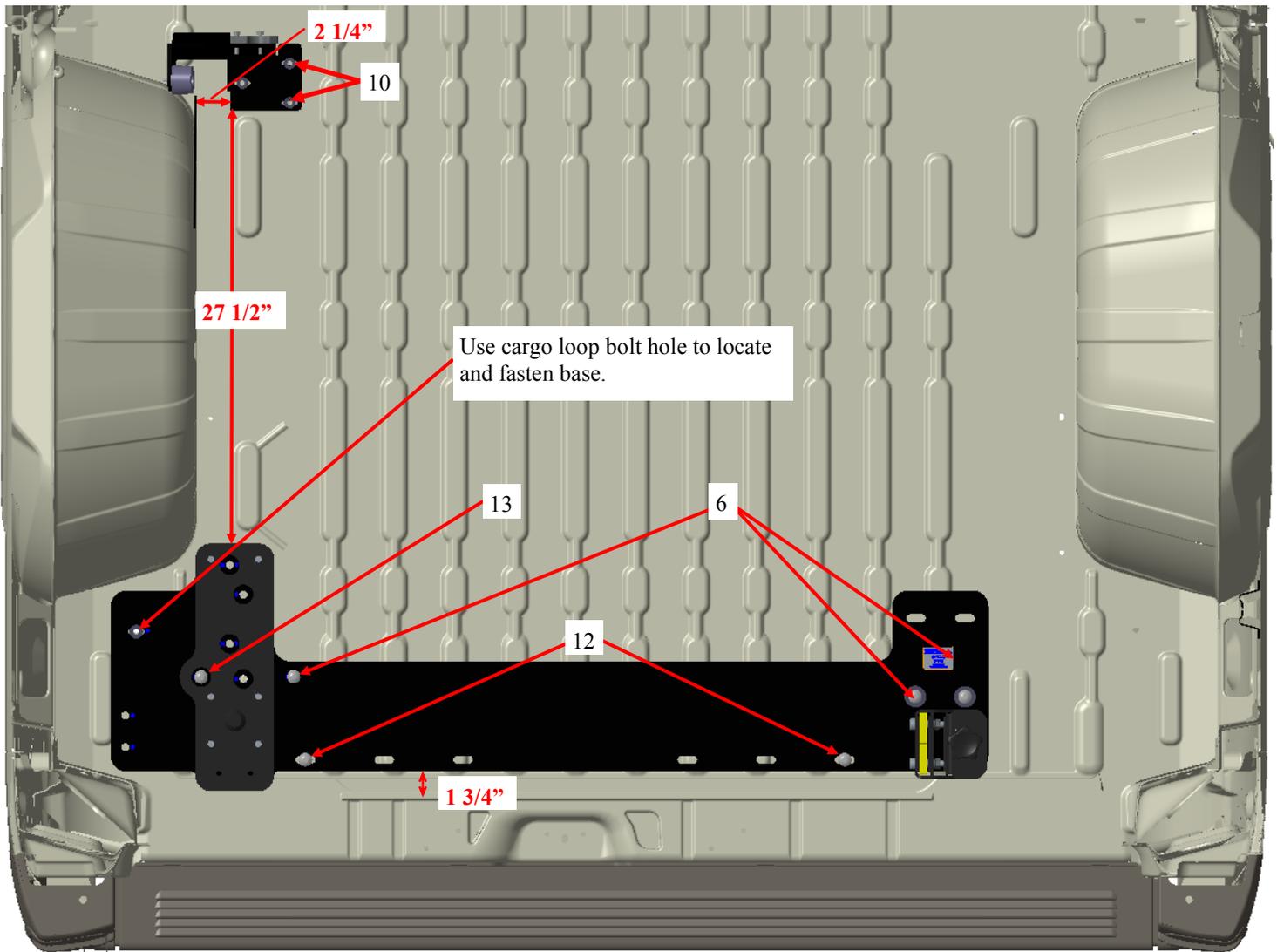
47" WIDE  
RAM PROMASTER 118", 136", 159", AND 159" EXT, LOW AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Remove the rear cargo loop from vehicle.
2. Using a fork lift or assistance place the ramp into rear doors.
3. Use cargo loop tie down hole and M8 fastener to locate and loosely fasten ramp into vehicle.
4. Align mount plate with rear of vehicle approximately 1 3/4" from load line.
5. Before drilling other hole locations, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
6. Drill three 17/32" holes in locations shown, ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
7. Place three of 1/2" X 2 3/4" button head bolt through the holes.
8. Place washers 7000-0031 under floor on passenger side and tighten the 1/2" flange nuts. Tighten the M8 fastener.
9. Place channel support 78590061 over frame rail on drivers side and snug the 1/2" flange nut do not tighten as you will need to install second fastener.
10. Locate the inside latch as shown mark and drill two 9/32" holes centered in slots. Use etching primer on raw surface of holes.
11. Mount the inside catch using the two 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
12. Swing ramp to in position and drill the two 17/32" holes in center of slots at rear of mount plate and install the 1/2" fasteners and place two washers 7000-0031 under van and tighten flange nuts. These do not require a washer under the bolt head
13. Swing ramp to the out position while supporting ramp drill the 17/32" hole. Use etching primer on raw metal surface of holes. Install 1/2" fastener and tighten.

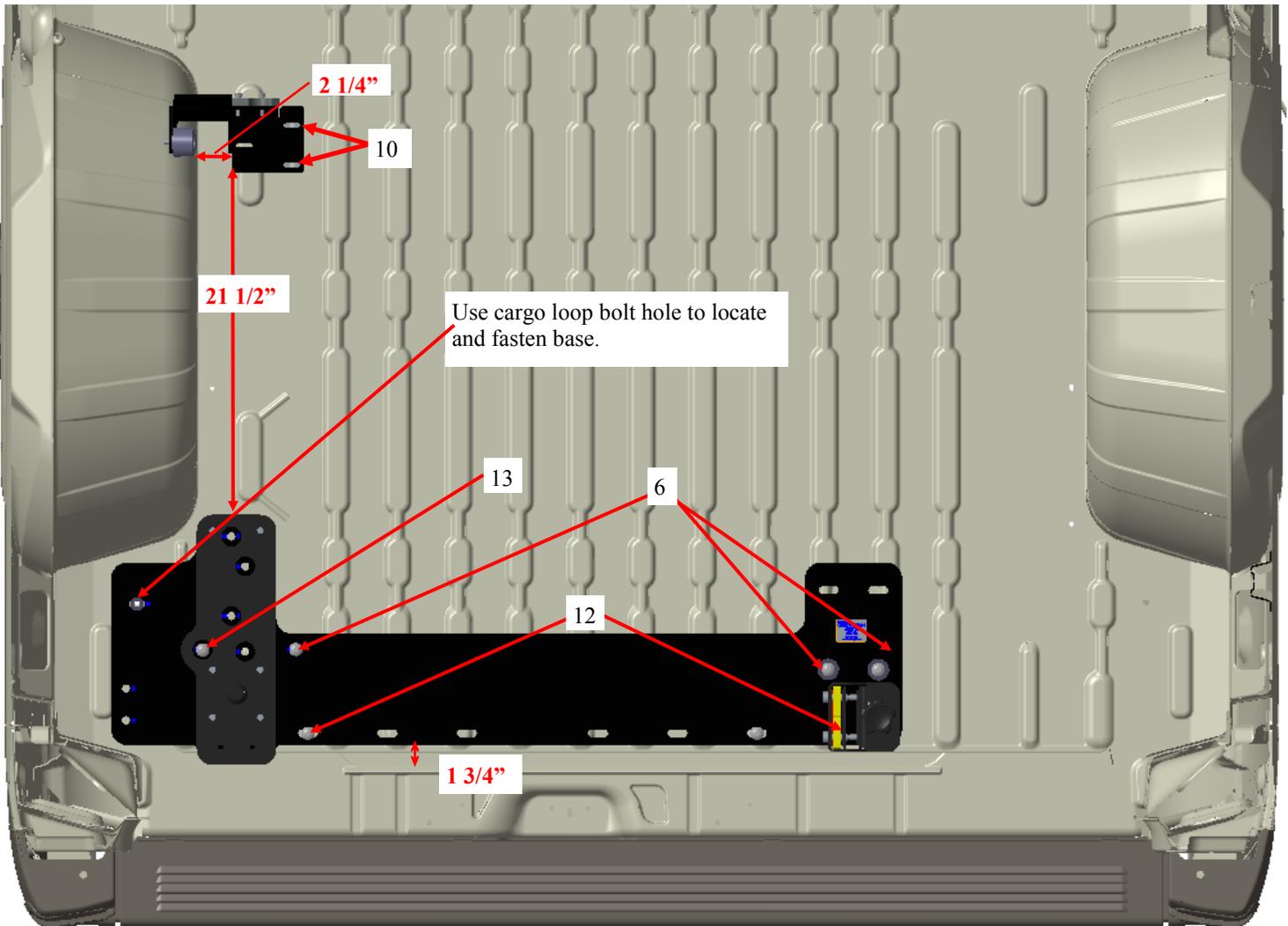
36" WIDE  
RAM PROMASTER 118", 136", 159", AND 159" EXT, LOW AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

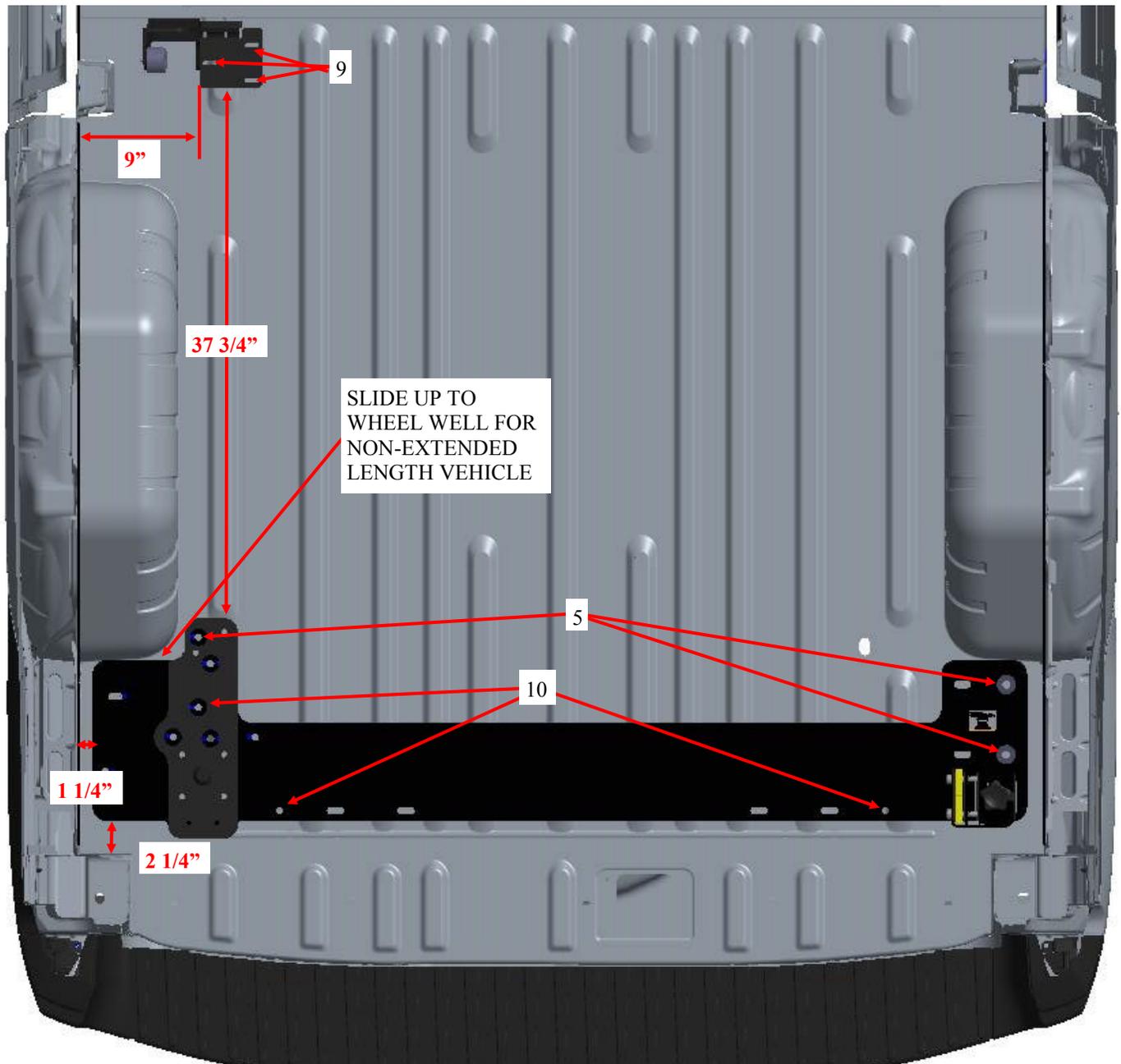
1. Remove the rear cargo loop from vehicle.
2. Using a fork lift or assistance place the ramp into rear doors.
3. Use cargo loop tie down hole and M8 fastener to locate and loosely fasten ramp into vehicle.
4. Align mount plate with rear of vehicle approximately 1 3/4" from load line.
5. Before drilling other hole locations, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
6. Drill three 17/32" holes in locations shown, ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
7. Place three of 1/2" X 2 3/4" button head bolt through the holes.
8. Place washers 7000-0031 under floor on passenger side and tighten the 1/2" flange nuts. Tighten the M8 fastener.
9. Place channel support 78590061 over frame rail on drivers side and snug the 1/2" flange nut do not tighten as you will need to install second fastener.
10. Locate the inside latch as shown mark and drill two 9/32" holes centered in slots. Use etching primer on raw surface of holes.
11. Mount the inside catch using the two 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
12. Swing ramp to the in position and drill the two 17/32" holes in center of slots at rear of mount plate and install the 1/2" fasteners and place two washers 7000-0031 under van and tighten flange nuts. These do not require a washer under the bolt head.
13. Swing ramp to the out position while supporting ramp drill the 17/32" hole. Use etching primer on raw metal surface of holes. Install 1/2" fastener and tighten.

30" WIDE  
RAM PROMASTER 118", 136", 159", AND 159" EXT, LOW AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

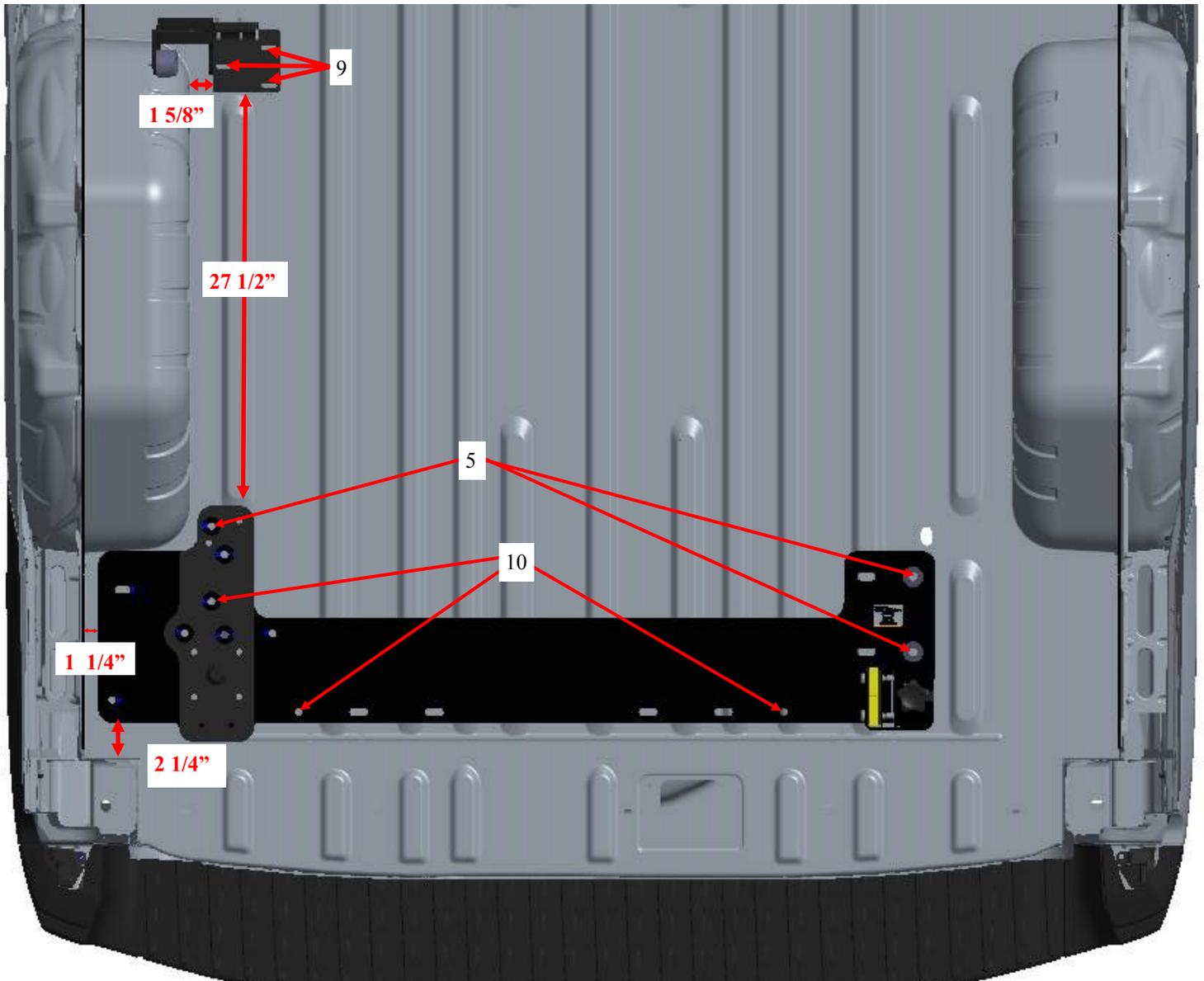
1. Remove the rear cargo loop from vehicle.
2. Using a fork lift or assistance place the ramp into rear doors.
3. Use cargo loop tie down hole and M8 fastener to locate and loosely fasten ramp into vehicle.
4. Align mount plate with rear of vehicle approximately 1 3/4" from load line.
5. Before drilling other hole locations, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
6. Drill three 17/32" holes in locations shown, ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
7. Place three of 1/2" X 2 3/4" button head bolt through the holes.
8. Place washers 7000-0031 under floor on passenger side and tighten the 1/2" flange nuts. Tighten the M8 fastener.
9. Place channel support 78590061 over frame rail on drivers side and snug the 1/2" flange nut do not tighten as you will need to install second fastener.
10. Locate the inside latch as shown mark and drill two 9/32" holes centered in slots. Use etching primer on raw surface of holes.
11. Mount the inside catch using the two 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
12. Swing ramp to in position and drill the two 17/32" holes in center of slots at rear of mount plate and install the 1/2" fasteners and place two washers 7000-0031 under van and tighten flange nuts. These do not require a washer under the bolt head.
13. Swing ramp to the out position while supporting ramp drill the 17/32" hole. Use etching primer on raw metal surface of holes. Install 1/2" fastener and tighten.



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Using a fork lift or assistance place the ramp into rear doors.
2. Locate ramp into vehicle as shown.
3. Align mount plate with rear of vehicle approximately  $8 \frac{3}{4}$ " from rear of vehicle, and  $1 \frac{1}{4}$ " from drivers side of vehicle.
4. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
5. Drill three  $\frac{17}{32}$ " holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
6. Place three of  $\frac{1}{2}$ " X  $2 \frac{3}{4}$ " button head bolt through the holes.
7. Place washers 7000-0031 under floor tighten the  $\frac{1}{2}$ " flange nuts.
8. Locate the inside latch as shown mark and drill three  $\frac{9}{32}$ " holes centered in slots. Use etching primer on raw surface of holes.
9. Mount the inside catch using the three  $\frac{1}{4}$ " X  $1 \frac{3}{4}$ " hex bolts,  $\frac{1}{4}$ " washers and  $\frac{1}{4}$ " nylock nuts, spacer if needed and under floor support.
10. Swing ramp to the out position while supporting ramp drill three  $\frac{17}{32}$ " hole. Use etching primer on raw metal surface of holes.
11. Place three of  $\frac{1}{2}$ " X  $2 \frac{3}{4}$ " button head bolt through the holes. These do not require a washer under the bolt head.
12. Place washers 7000-0031 under floor tighten the  $\frac{1}{2}$ " flange nuts

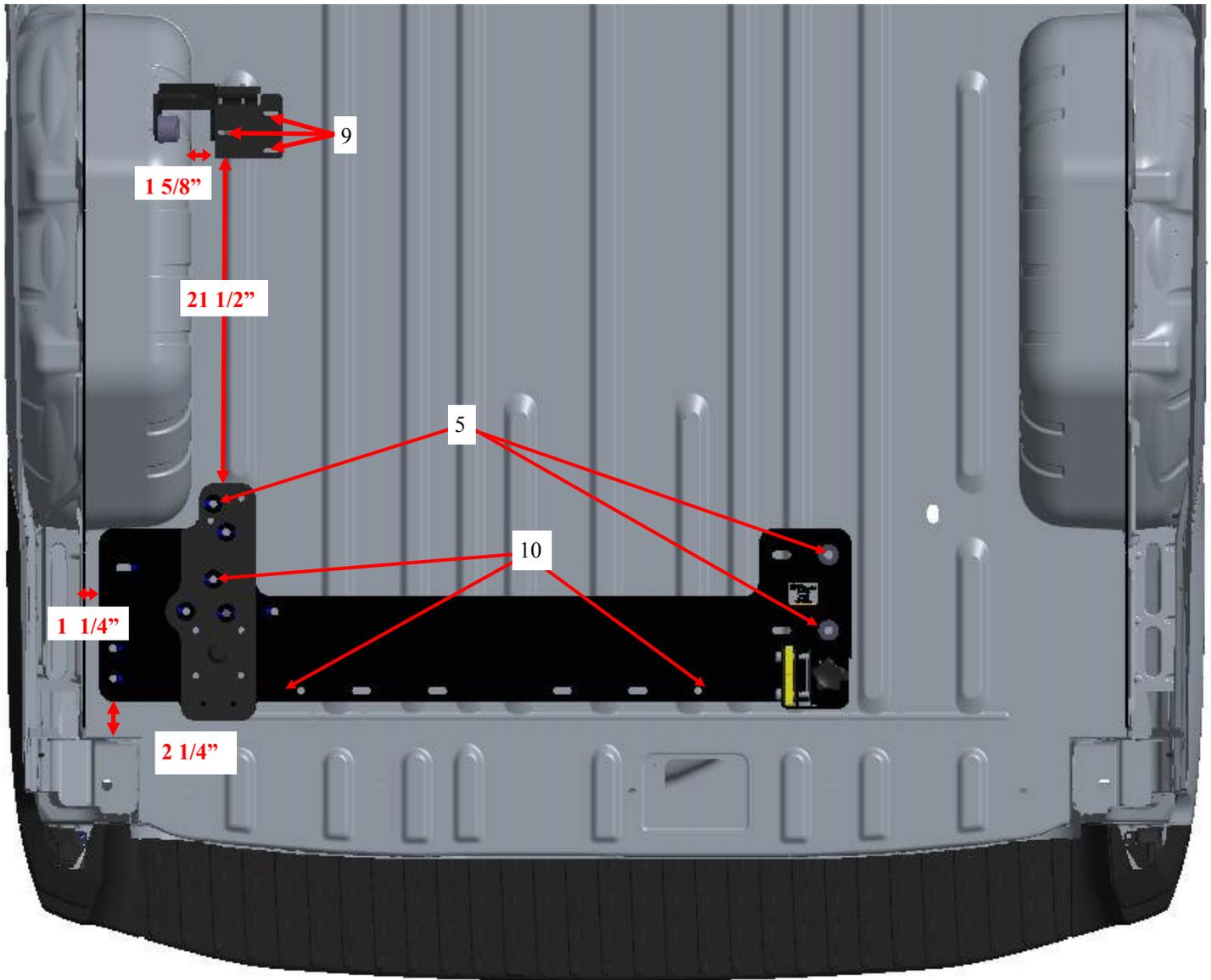
36" WIDE  
FORD TRANSIT 130", 148", 148"EL, MEDIUM AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Using a fork lift or assistance place the ramp into rear doors.
2. Locate ramp into vehicle as shown.
3. Align mount plate with rear of vehicle approximately  $8 \frac{3}{4}$ " from rear of vehicle, and  $1 \frac{1}{4}$ " from drivers side of vehicle.
4. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
5. Drill three  $\frac{17}{32}$ " holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
6. Place three of  $\frac{1}{2}$ " X  $2 \frac{3}{4}$ " button head bolt through the holes.
7. Place washers 7000-0031 under floor tighten the  $\frac{1}{2}$ " flange nuts.
8. Locate the inside latch as shown mark and drill three  $\frac{9}{32}$ " holes centered in slots. Use etching primer on raw surface of holes.
9. Mount the inside catch using the three  $\frac{1}{4}$ " X  $1 \frac{3}{4}$ " hex bolts,  $\frac{1}{4}$ " washers and  $\frac{1}{4}$ " nylock nuts, spacer if needed and under floor support.
10. Swing ramp to the out position while supporting ramp drill three  $\frac{17}{32}$ " hole. Use etching primer on raw metal surface of holes.
11. Place three of  $\frac{1}{2}$ " X  $2 \frac{3}{4}$ " button head bolt through the holes. These do not require a washer under the bolt head.
12. Place washers 7000-0031 under floor tighten the  $\frac{1}{2}$ " flange nuts

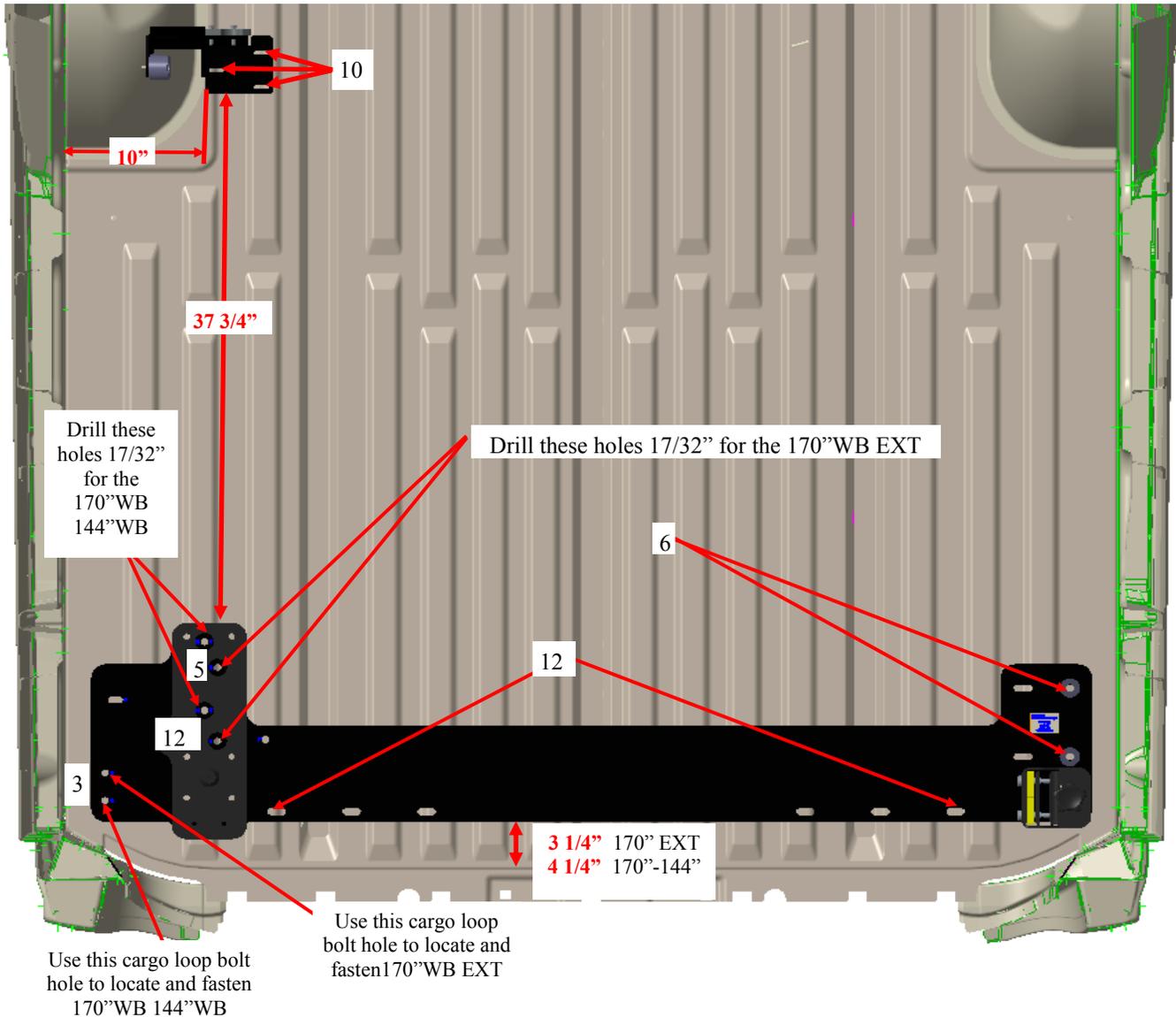
30" WIDE  
FORD TRANSIT 130", 148", 148"EL, MEDIUM AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Using a fork lift or assistance place the ramp into rear doors.
2. Locate ramp into vehicle as shown.
3. Align mount plate with rear of vehicle approximately  $8 \frac{3}{4}$ " from rear of vehicle, and  $1 \frac{1}{4}$ " from drivers side of vehicle.
4. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
5. Drill three  $\frac{17}{32}$ " holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
6. Place three of  $\frac{1}{2}$ " X  $2 \frac{3}{4}$ " button head bolt through the holes.
7. Place washers 7000-0031 under floor tighten the  $\frac{1}{2}$ " flange nuts.
8. Locate the inside latch as shown mark and drill three  $\frac{9}{32}$ " holes centered in slots. Use etching primer on raw surface of holes.
9. Mount the inside catch using the three  $\frac{1}{4}$ " X  $1 \frac{3}{4}$ " hex bolts,  $\frac{1}{4}$ " washers and  $\frac{1}{4}$ " nylock nuts, spacer if needed and under floor support.
10. Swing ramp to the out position while supporting ramp drill three  $\frac{17}{32}$ " hole. Use etching primer on raw metal surface of holes.
11. Place three of  $\frac{1}{2}$ " X  $2 \frac{3}{4}$ " button head bolt through the holes. These do not require a washer under the bolt head.
12. Place washers 7000-0031 under floor tighten the  $\frac{1}{2}$ " flange nuts

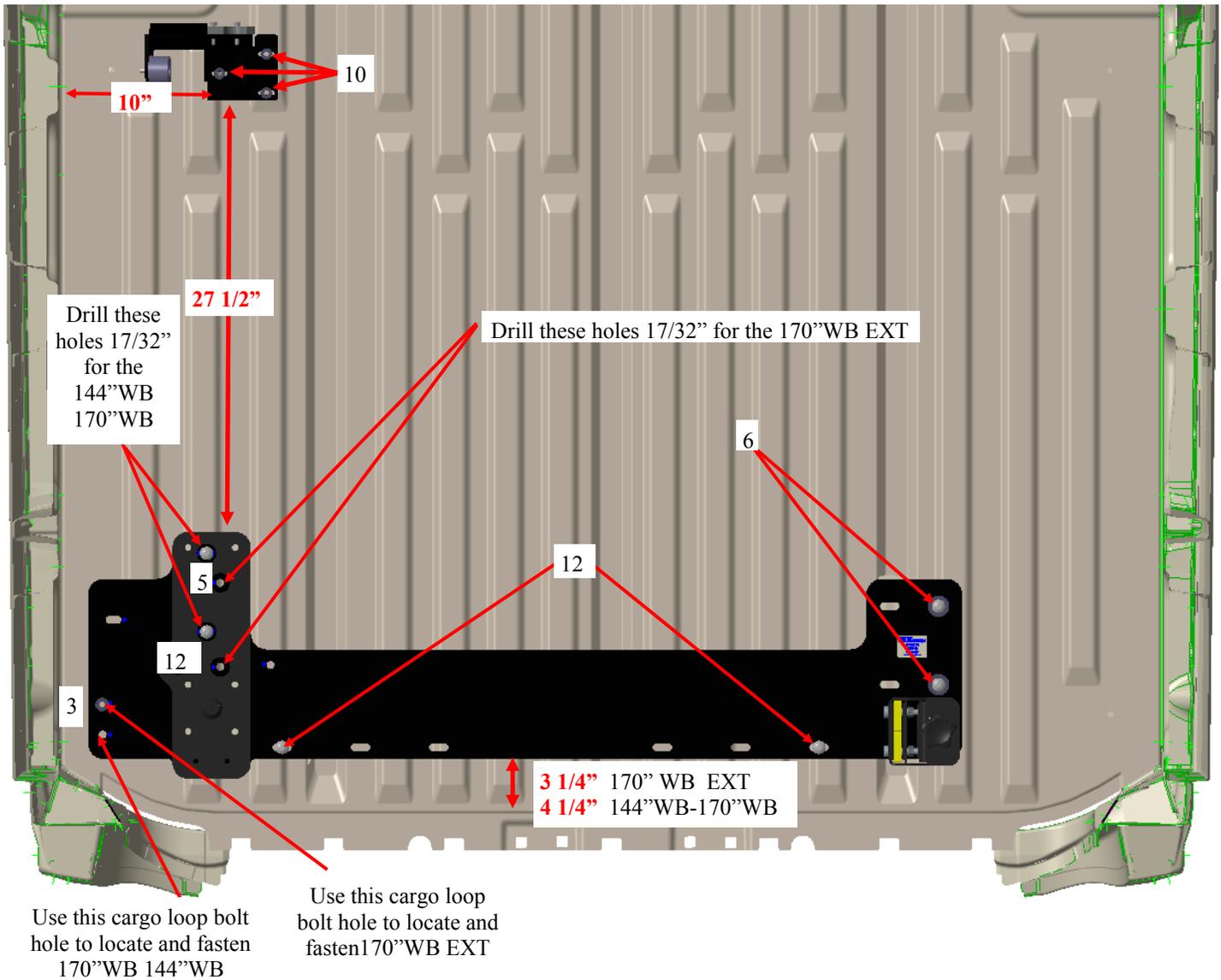
47" WIDE  
MERCEDES SPRINTER 144", 170", AND 170" EXT, LOW ROOF AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Remove the rear cargo loop from vehicle.
2. Using a fork lift or assistance place the ramp into rear doors.
3. Use cargo loop tie down hole and M8 fastener to locate and loosely fasten ramp into vehicle.
4. Align mount plate with rear of vehicle approximately 3 1/4" for the 170"ext and 4 1/4" for the 170"-144" from load line.
5. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
6. Drill three 17/32" holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
7. Place three of 1/2" X 2 3/4" button head bolt through the holes.
8. Place washers 7000-0031 under floor on passenger side and tighten the 1/2" flange nuts. Tighten the M8 fastener.
9. Place channel support 78590061 over frame rail on drivers side and snug the 1/2" flange nut do not tighten as you will need to install second fastener.
10. Locate the inside latch as shown mark and drill two 9/32" holes centered in slots. Use etching primer on raw surface of holes.
11. Mount the inside catch using the two 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
12. Swing ramp to in position and drill the two 17/32" holes in center of slots at rear of mount plate and install the 1/2" fasteners and place two washers 7000-0031 under van and tighten flange nuts. These do not require a washer under the bolt head.
13. Swing ramp to the out position while supporting ramp drill the 17/32" hole. Use etching primer on raw metal surface of holes. Install 1/2" fastener and tighten.

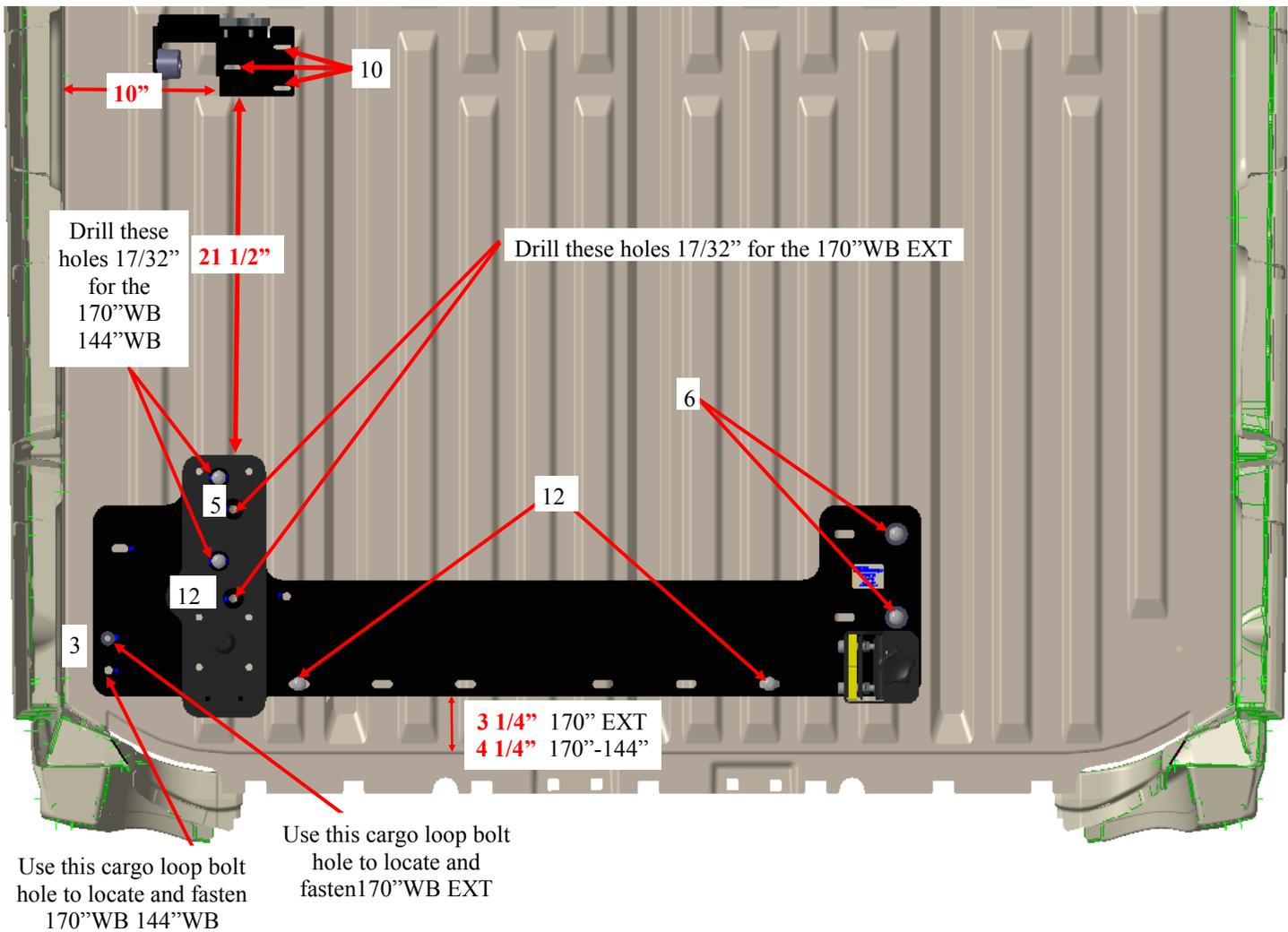
36" WIDE  
MERCEDES SPRINTER 144", 170", AND 170" EXT, LOW AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

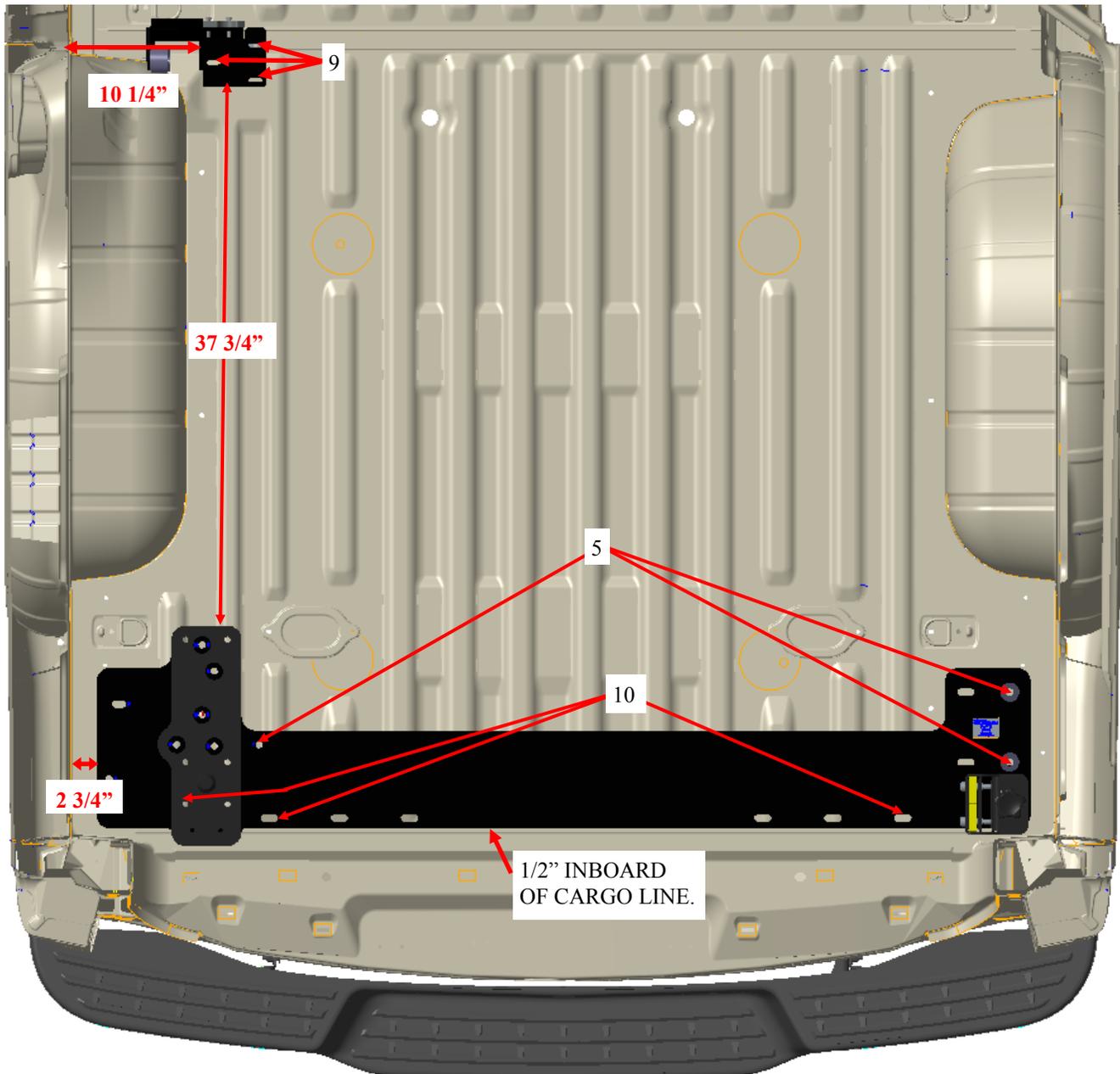
1. Remove the rear cargo loop from vehicle.
2. Using a fork lift or assistance place the ramp into rear doors.
3. Use cargo loop tie down hole and M8 fastener to locate and loosely fasten ramp into vehicle.
4. Align mount plate with rear of vehicle approximately 3 1/4" for the 170" ext and 4 1/4" for the 170"-144" from load line.
5. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
6. Drill three 17/32" holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
7. Place three of 1/2" X 2 3/4" button head bolt through the holes.
8. Place washers 7000-0031 under floor on passenger side and tighten the 1/2" flange nuts. Tighten the M8 fastener.
9. Place channel support 78590061 over frame rail on drivers side and snug the 1/2" flange nut do not tighten as you will need to install second fastener.
10. Locate the inside latch as shown mark and drill two 9/32" holes centered in slots. Use etching primer on raw surface of holes.
11. Mount the inside catch using the two 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
12. Swing ramp to in position and drill the two 17/32" holes in center of slots at rear of mount plate and install the 1/2" fasteners and place two washers 7000-0031 under van and tighten flange nuts. These do not require a washer under the bolt head.
13. Swing ramp to the out position while supporting ramp drill the 17/32" hole. Use etching primer on raw metal surface of holes. Install 1/2" fastener and tighten.

30" WIDE  
MERCEDES SPRINTER 144", 170", AND 170" EXT, LOW AND HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

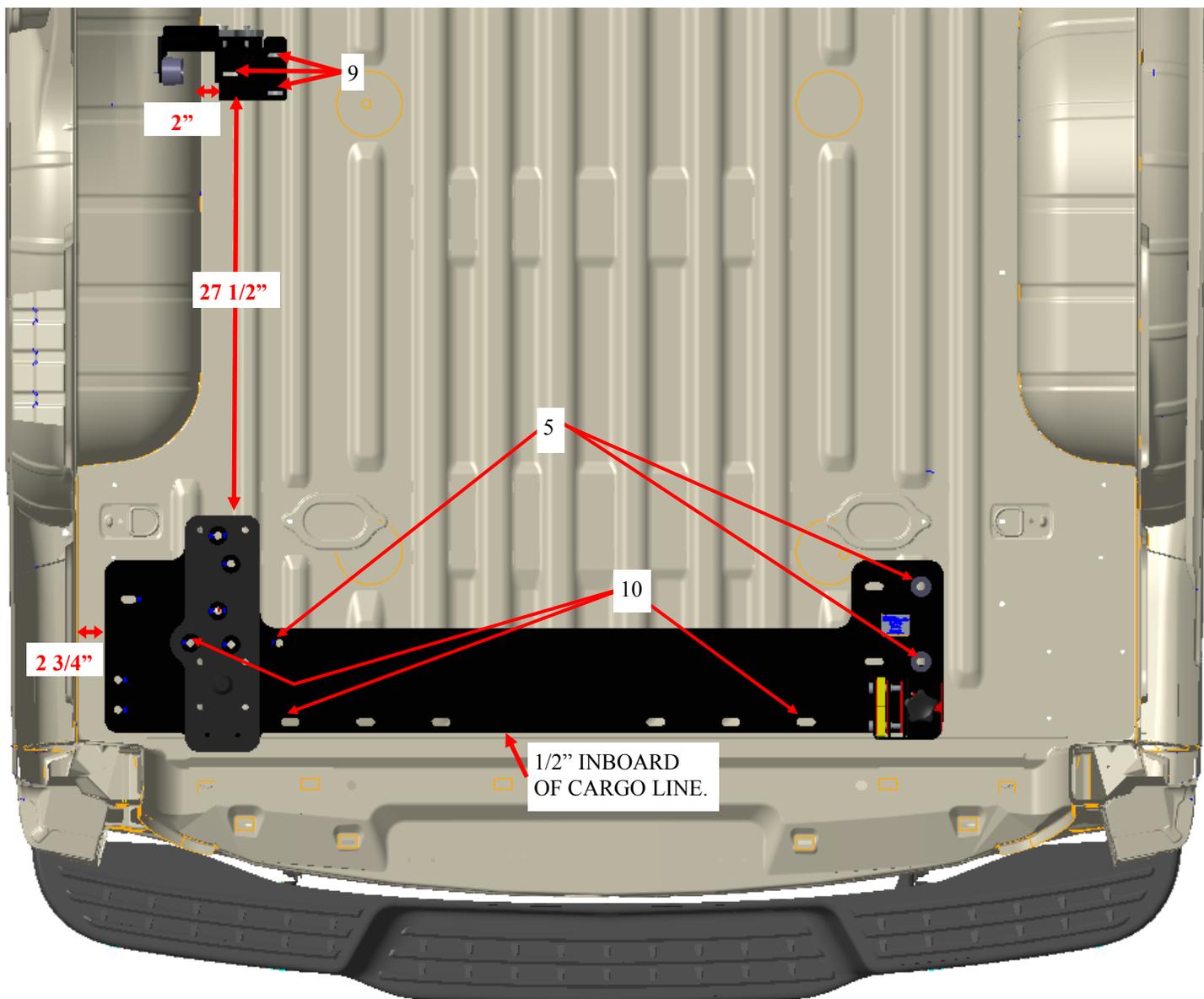
1. Remove the rear cargo loop form vehicle.
2. Using a fork lift or assistance place the ramp into rear doors.
3. Use cargo loop tie down hole and M8 fastener to locate and loosely fasten ramp into vehicle.
4. Align mount plate with rear of vehicle approximately 3 1/4" for the 170"ext and 4 1/4" for the 170"-144" from load line.
5. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
6. Drill three 17/32" holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
7. Place three of 1/2" X 2 3/4" button head bolt through the holes.
8. Place washers 7000-0031 under floor on passenger side and tighten the 1/2 " flange nuts. Tighten the M8 fastener.
9. Place channel support 78590061 over frame rail on drivers side and snug the 1/2" flange nut do not tighten as you will need to install second fastener.
10. Locate the inside latch as shown mark and drill two 9/32" holes centered in slots. Use etching primer on raw surface of holes.
11. Mount the inside catch using the two 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
12. Swing ramp to in position and drill the two 17/32" holes in center of slots at rear of mount plate and install the 1/2" fasteners and place two washers 7000-0031 under van and tighten flange nuts. These do not require a washer under the bolt head
13. Swing ramp to the out position while supporting ramp drill the 17/32" hole. Use etching primer on raw metal surface of holes. Install 1/2" fastener and tighten.



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Using a fork lift or assistance place the ramp into rear doors.
2. Locate ramp into vehicle as shown.
3. Align mount plate with rear of vehicle 1/2" inboard of cargo line, and 2 3/4" from drivers side of vehicle.
4. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
5. Drill three 17/32" holes in locations shown ensuring that there are no interferences with under body components. Use etching primer on raw metal surface of holes.
6. Place three of 1/2" X 2 3/4" button head bolt through the holes.
7. Place washers 7000-0031 under floor tighten the 1/2" flange nuts.
8. Locate the inside latch as shown mark and drill three 9/32" holes centered in slots. Use etching primer on raw surface of holes.
9. Mount the inside catch using the three 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
10. Swing ramp to the out position while supporting ramp drill three 17/32" hole. Use etching primer on raw metal surface of holes.
11. Place three of 1/2" X 2 3/4" button head bolt through the holes. These do not require a washer under the bolt head.
12. Place washers 7000-0031 under floor tighten the 1/2" flange nuts

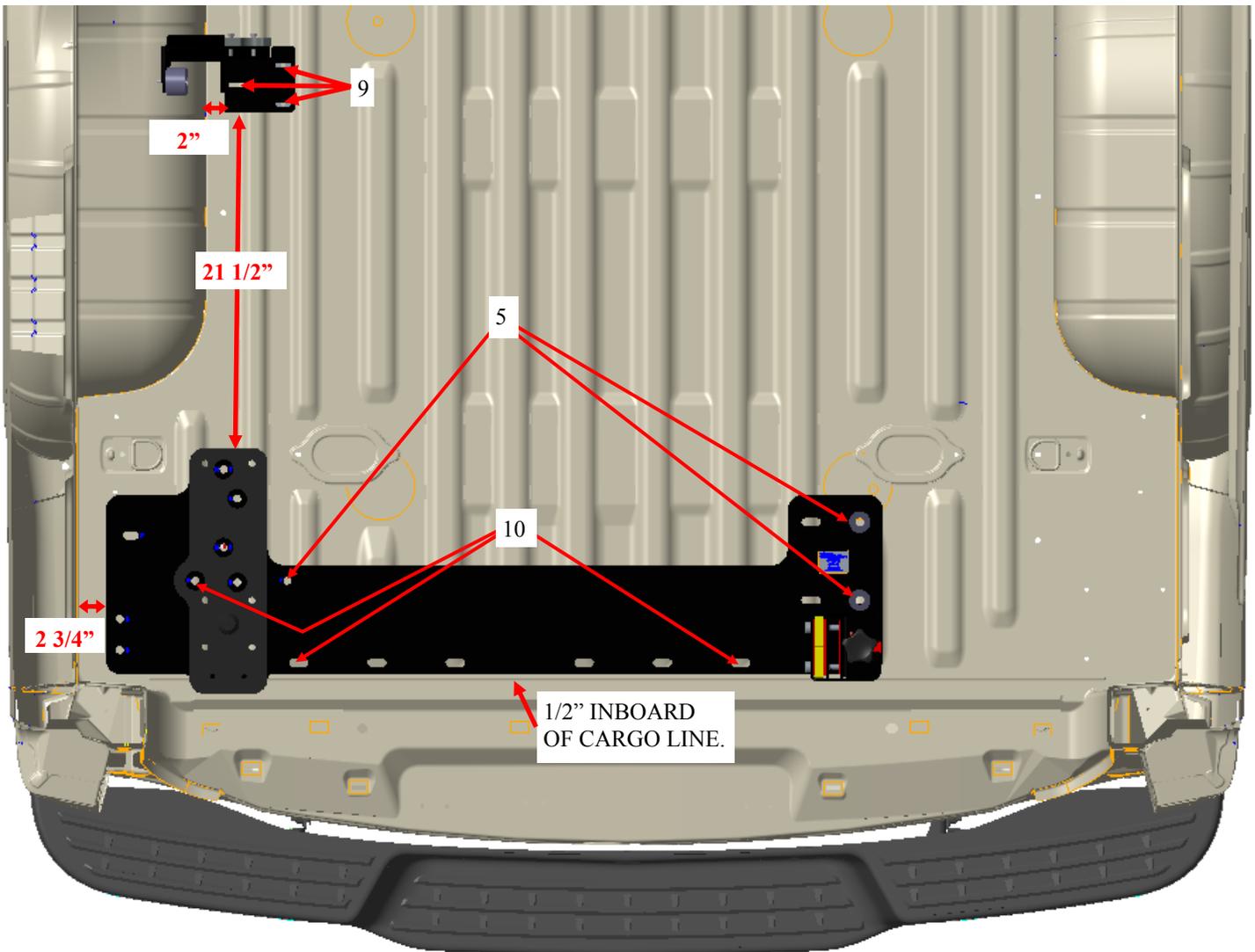
36" WIDE  
NISSAN NV 146" WB HIGH ROOF



RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Using a fork lift or assistance place the ramp into rear doors.
2. Locate ramp into vehicle as shown.
3. Align mount plate with rear of vehicle 1/2" inboard of cargo line, and 2 3/4" from drivers side of vehicle.
4. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
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6. Place three of 1/2" X 2 3/4" button head bolt through the holes.
7. Place washers 7000-0031 under floor tighten the 1/2" flange nuts.
8. Locate the inside latch as shown mark and drill three 9/32" holes centered in slots. Use etching primer on raw surface of holes.
9. Mount the inside catch using the three 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
10. Swing ramp to the out position while supporting ramp drill three 17/32" hole. Use etching primer on raw metal surface of holes.
11. Place three of 1/2" X 2 3/4" button head bolt through the holes. These do not require a washer under the bolt head
12. Place washers 7000-0031 under floor tighten the 1/2" flange nuts.

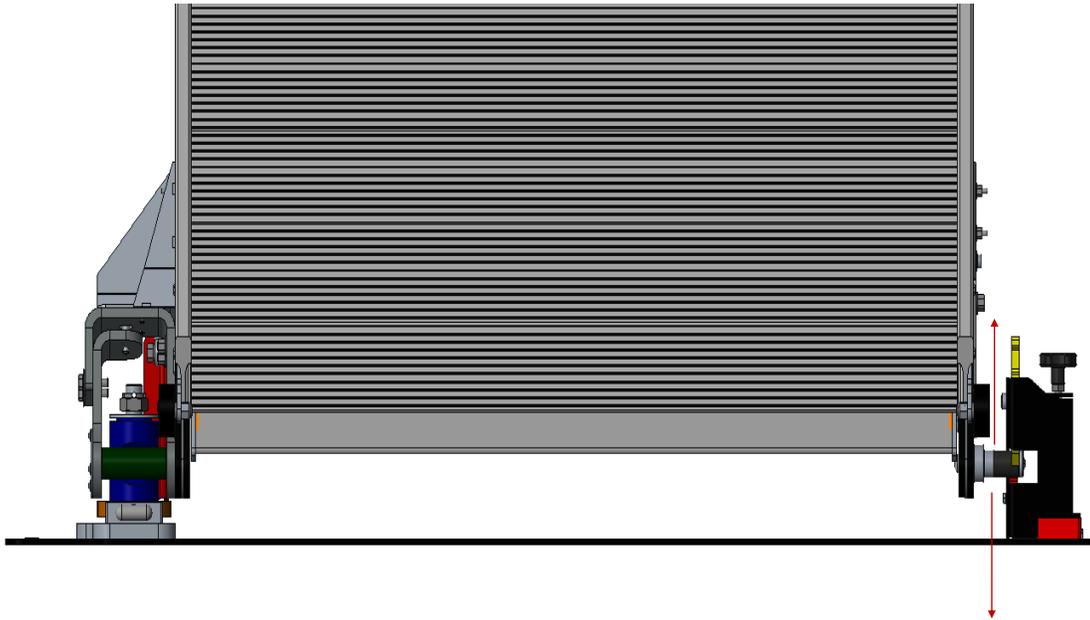
30" WIDE  
NISSAN NV 146" WB HIGH ROOF



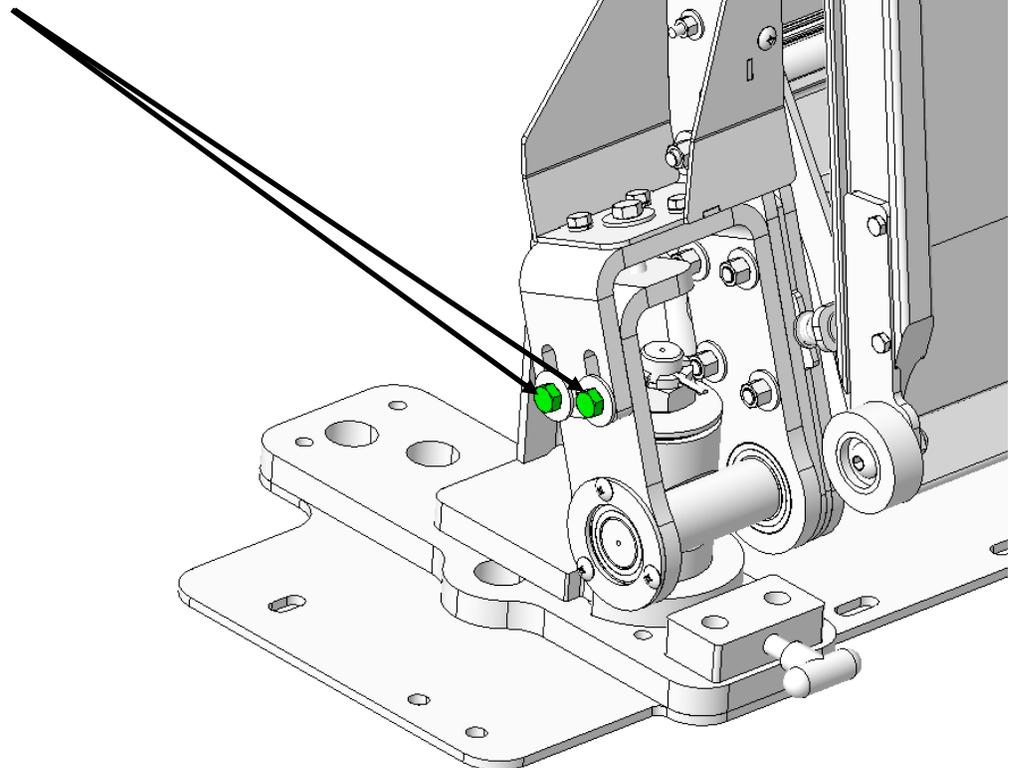
RAMP REMOVED FROM MOUNT PLATE TO SHOW MOUNT HOLE LOCATIONS

1. Using a fork lift or assistance place the ramp into rear doors.
2. Locate ramp into vehicle as shown.
3. Align mount plate with rear of vehicle 1/2" inboard of cargo line, and 2 3/4" from drivers side of vehicle.
4. Before drilling holes, move the ramp through a full range of motion to ensure proper clearance between the wheel and door frame near the pivot location, and between the latch pin and the passenger wheel well. Since the baseplate is not secured to the floor of the vehicle yet, you will need to support the weight of the ramp as it pivots through this range of motion. See Figure 1 for approximate clearance envelopes.
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6. Place three of 1/2" X 2 3/4" button head bolt through the holes.
7. Place washers 7000-0031 under floor tighten the 1/2 " flange nuts.
8. Locate the inside latch as shown mark and drill three 9/32" holes centered in slots. Use etching primer on raw surface of holes.
9. Mount the inside catch using the three 1/4" X 1 3/4" hex bolts, 1/4" washers and 1/4" nylock nuts, spacer if needed and under floor support.
10. Swing ramp to the out position while supporting ramp drill three 17/32" hole. Use etching primer on raw metal surface of holes.
11. Place three of 1/2" X 2 3/4" button head bolt through the holes. These do not require a washer under the bolt head.
12. Place washers 7000-0031 under floor tighten the 1/2 " flange nuts

## RAMP LEVELING ADJUSTMENT PROCEDURE

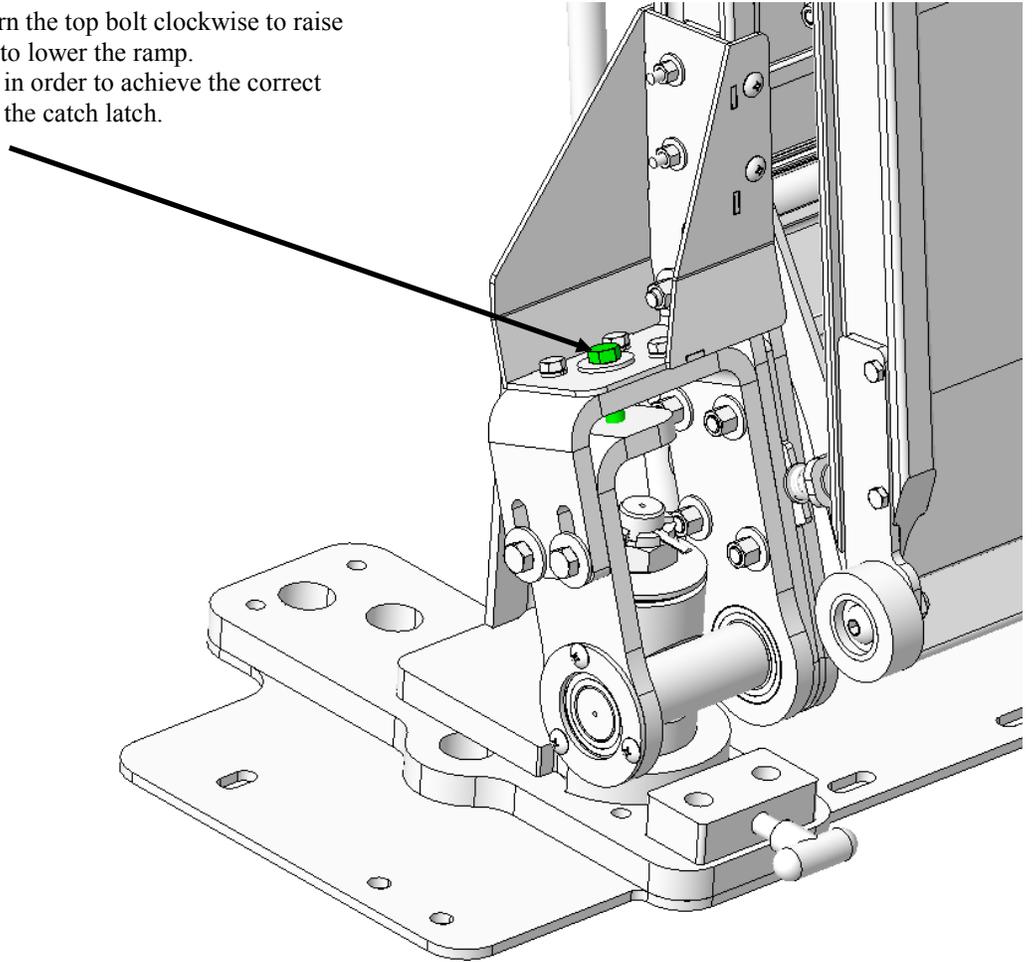


With the ramp in the folded upright position. Using a 9/16" wrench turning counter clockwise loosen the two 7/16" bolts two full turns.

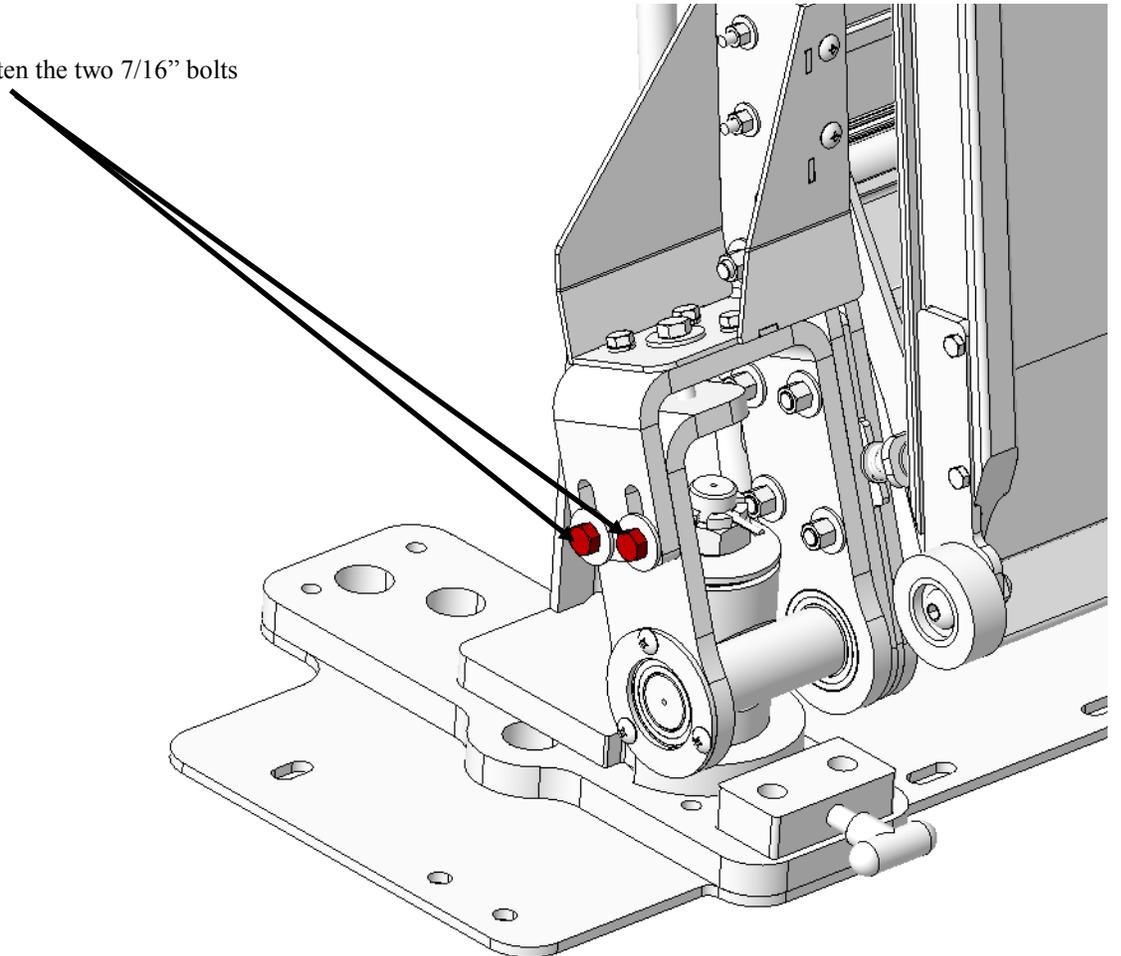


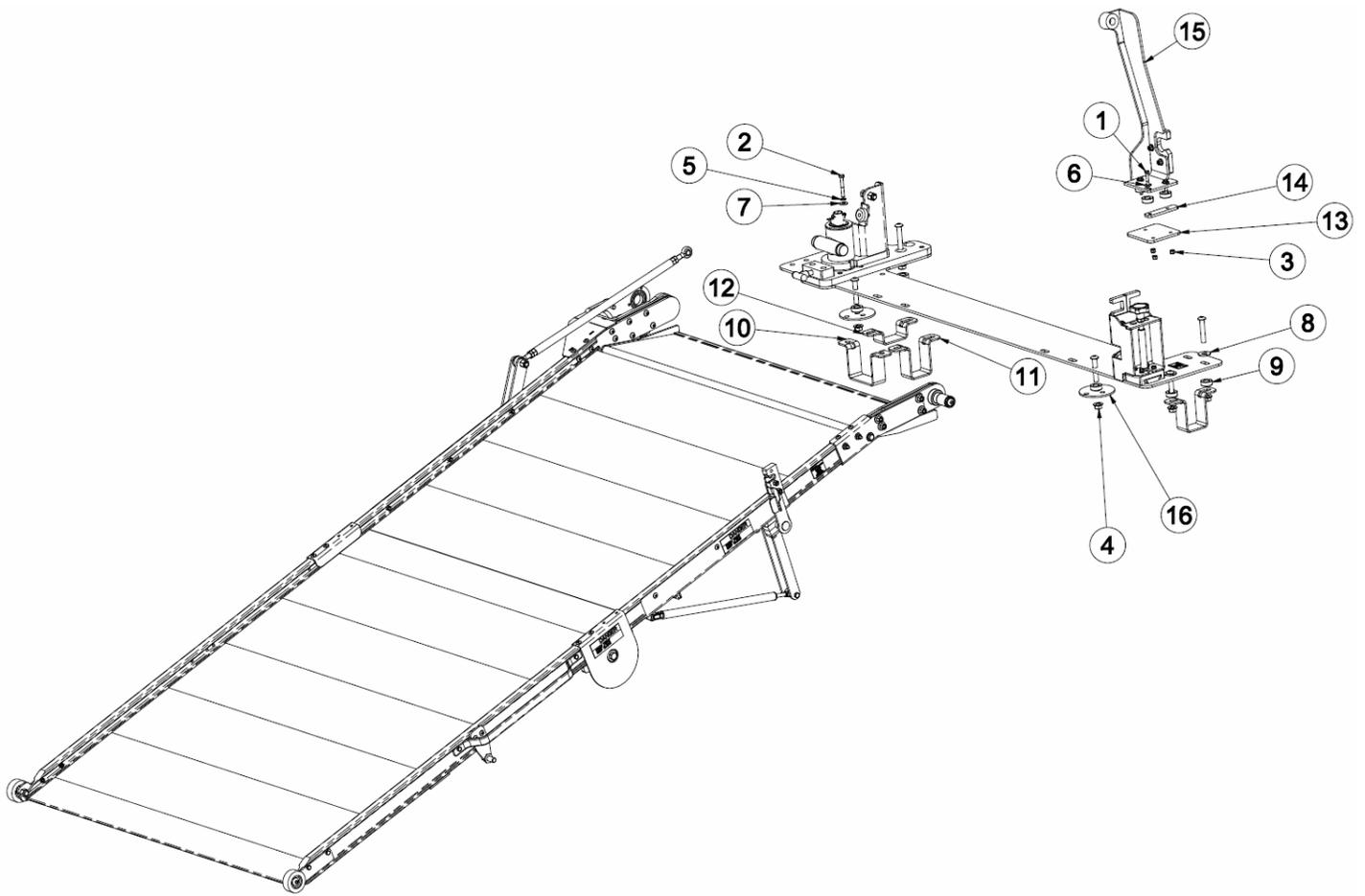
## **RAMP LEVELING ADJUSTMENT PROCEDURE CONT.**

Using the same 9/16" wrench turn the top bolt clockwise to raise the ramp and counter clockwise to lower the ramp. Turn the bolt in 1/4" increments in order to achieve the correct height that the ramp swings into the catch latch.



Turning clockwise tighten the two 7/16" bolts





ITEM	PART #	DESCRIPTION	QTY
1	14010814	1/4 X 1 3/4 UNC HEX CAP SCR (GR 5)	3
2	14050812	HEX CAP SCREW, M8 X 1.25 X 60, CLASS 8.8	1
3	14780800	1/4 UNC HEX NYLOCK NUT (GR B)	3
4	14821601	1/2 UNC FLANGE NUT (GR G)	6
5	14851000	5/16 LOCK WASHER	1
6	14870800	1/4 TYPE A PLAIN WASHER	3
7	14871000	5/16 TYPE A PLAIN WASHER	1
8	14871600	1/2 TYPE A PLAIN WASHER	2
9	78561048	SPACER-MOUNT	10
10	78590061	CHANNEL-SUPPORT	1
11	78590062	CHANNEL-SUPPORT	2
12	78590064	CHANNEL-SUPPORT	1
13	78590104	SUPPORT- UNDER FLOOR, INSIDE CATCH	1
14	78590106	SUPPORT- UNDER FLOOR, INSIDE CATCH	1
15	78591006	ASSEMBLY-INSIDE CATCH	1
16	7000-0031	WASHER-FLOOR SUPPORT	6