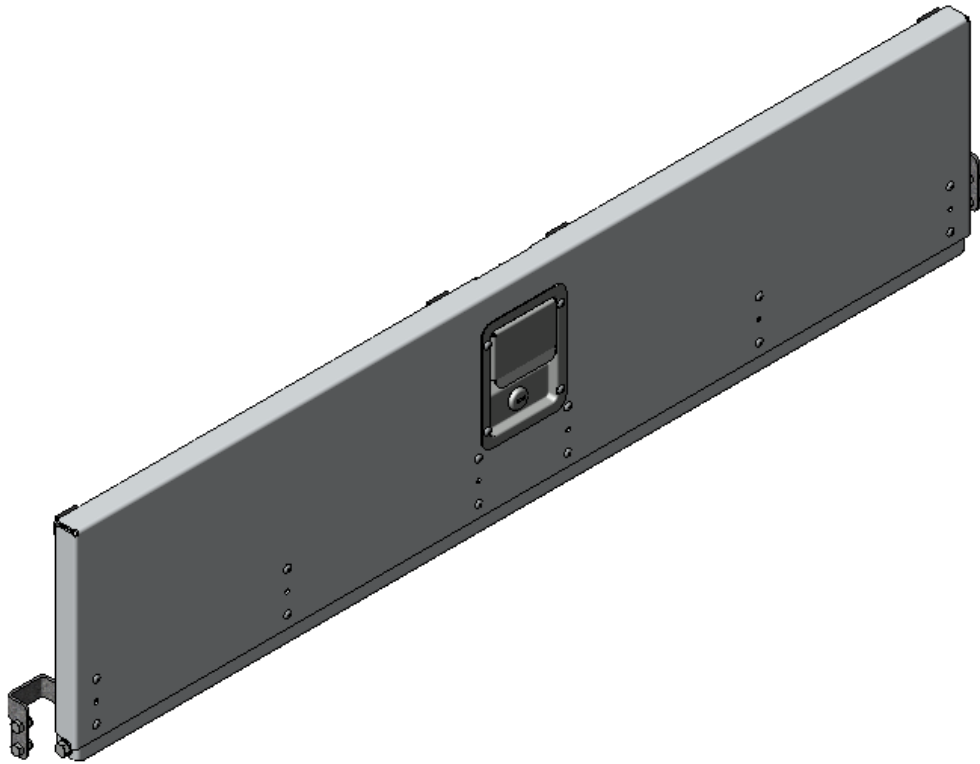


# INSTALLATION GUIDE



## 77-U1048 Shelving Door ( ALUMINUM )



Scan the QR for the latest Install-Guide.





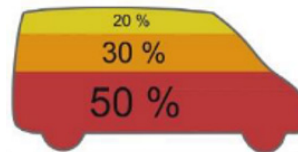
# BEFORE YOU BEGIN

READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THESE DIRECTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, AND/OR DEATH. RANGER DESIGN IS NOT RESPONSIBLE FOR ANY PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH THAT OCCURRED WHILE USING ANY RANGER DESIGN PRODUCTS.



## WARNING

- Failure to use Ranger Design-provided fasteners, brackets, and proper installation guidelines could increase risk of serious personal injury and/or death.
- If drilling is required to complete this installation: improper drilling can cause property damage to vehicles and could lead to electric shock, fire, or even death.
- If drilling is required to complete this installation: Ensure that drilling is only performed on areas of the vehicle allowed by the vehicle's Original Equipment Manufacturer's Body Builders Layout Book (or equivalent document).
- Prior to installation, inspect the vehicle to ensure that installation will not interfere with, or cause obstruction of, any critical components such as electrical wiring, fuel tanks, fuel-cells, locks, latches, etc.
- The installer or manufacturer is responsible for ensuring anchorages are installed onto suitable wall and floor structures; wall and floor strength must meet applicable performance requirements.
- Do not install systems into any weak or unsound materials such as plastics, woods, thin-walled metals, etc. without proper reinforcement.
- Do not install this product where it could interfere with the deployment of airbags. Failure to comply could result in death or serious injury.
- Do not install this product where it could ingress on the Transit Occupant Protection Zone. Failure to comply could result in death or serious injury.
- Incorrect installation could cause water leaks, electric shock or fire.
- Any cargo vehicle with any cargo or equipment should use a certified partition. See Ranger Design website for some partition options. (<https://rangerdesign.com/>)
- Mountings rails are recommended for any attachment to the vehicle walls.
- All items in the cargo area should be properly secured and partition doors closed while the vehicle is in motion.
- Check your vehicle's tare weight and remaining load capacity with all the equipment installed. Never exceed the maximum Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Ratings (GAWRs), or other maximum loads permitted by the vehicle's Original Equipment Manufacturer (OEM) and required by law.
- The heaviest items must be placed towards the bottom of the vehicle, while the lightest ones can be arranged upwards. Vehicle cargo loading weight proportion should follow the following guidelines:



- The final alterer and/ or modifier should review the warning sheet with the customer before the vehicle is released to the customer or for general use. These instructions should remain with the vehicles a all times.
- Any modification or unintended use of this product voids any warranty and could create a hazardous condition.
- Ranger Design provides recommended assembly and installation instructions which should be followed to ensure correct operation. Failure to do so could result in invalidating the product's compliance, warranty and cause injury. Notwithstanding, the final stage vehicle alterer and/or modifier is responsible for the integration, installation, and compliance of the product in its final location to all applicable regulations and standards. Failure to maintain compliance of the vehicle to applicable regulations and standards could be punishable by law. Alterers and/or modifiers should consult with all local authorities prior to commissioning.



## CAUTION

- Drilling is required to complete this installation. Before drilling, ensure that you will not hit any critical parts of the vehicle like the gas tank, wiring harness, or hose. Consult the vehicle OEM documentation as necessary. When drilling, use a drill collar to reduce the risk of damage to the vehicle.
- Any materials, padding, or glazing installed in the vehicle must comply with FMVSS/CMVSS 201/205/302, as applicable.
- In the event of a motor vehicle accident or collision where a Ranger system has been installed, especially ones where the vehicle structure is damaged and/or the air bags deploy and/or the vehicle has been towed, the system must be inspected to ensure continued soundness and safety before returning the vehicle to service. Damaged components should be replaced as necessary.
- All system components should be regularly inspected, cleaned, and maintained pursuant to Ranger guidelines.

# QUICK START GUIDE

## Phase 1 - Assembly

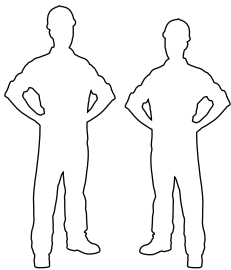
❑ 1.1 Setup.....	4
❑ 1.2 Door Assembly.....	6

## Phase 2 - Installation

❑ 2.1 Door Installation.....	9
❑ 2.2 Striker Plate Install.....	11

# REQUIRED ITEMS

- ❑ Ratchet
- ❑ Rivet Gun
- ❑ Tape Measure
- ❑ Marker
- ❑ 1/2" Socket
- ❑ 7/16" Socket
- ❑ 7/16" Wrench
- ❑ 1/2" Wrench
- ❑ Knife



2  
PERSONS

## SAFETY EQUIPMENT

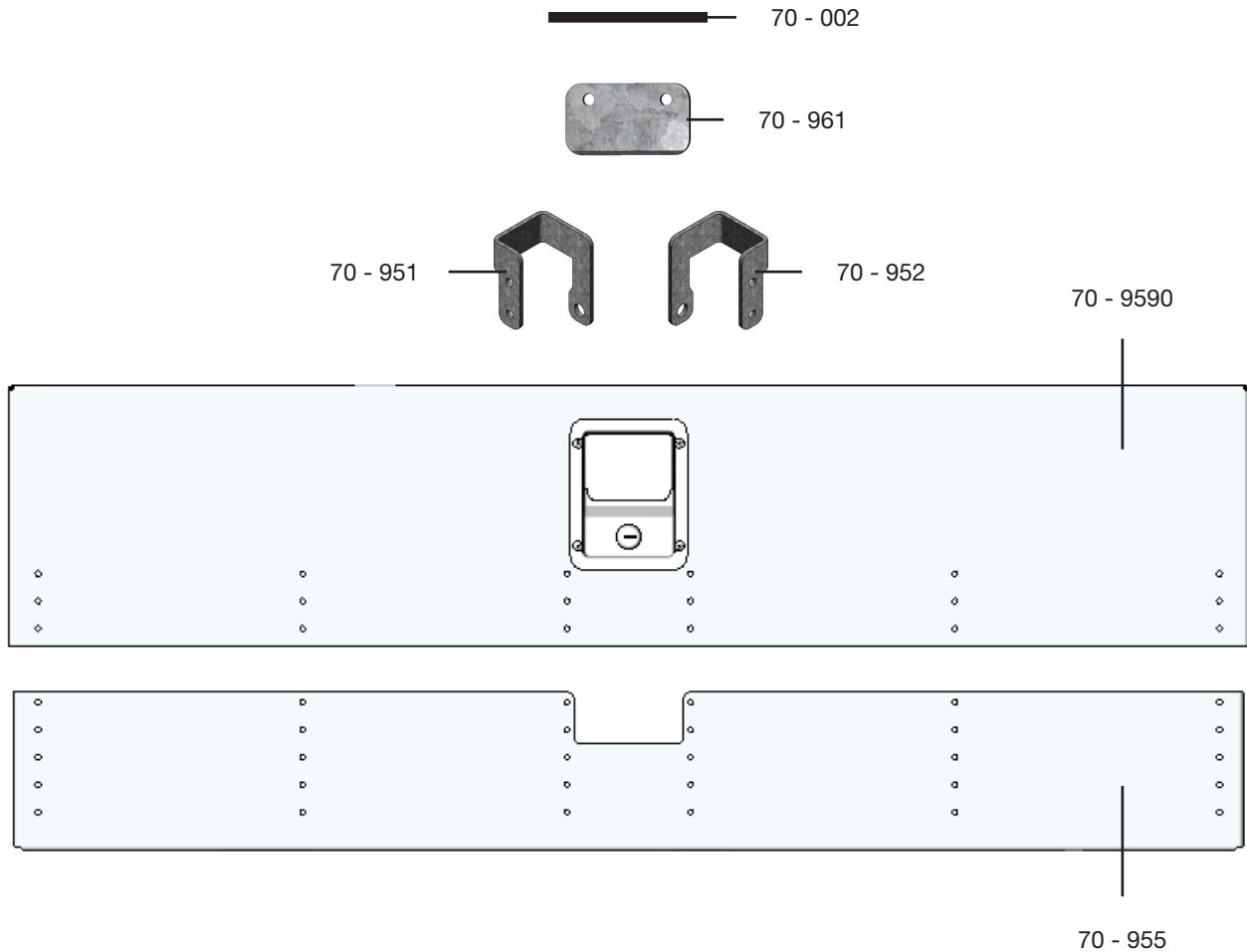


# PHASE 1 – ASSEMBLY

## 1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.

**NOTE:** Work bench and locker have a different striker plate.





















1.1.2 Verify all parts are present.

### BILL OF MATERIALS

Item No.	Description	Qty.
70-002	Foam Tape ( QTY in Inches )	4
70 - 951	Door Bracket ( Left )	1
70 - 952	Door Bracket ( Right )	1
70 - 955	Lower Door Panel	1
70 - 961	Striker Plate	1
70 - 9590	Upper Panel w/ Latch ( 48" )	1
94 - 4031	Assembly Fastener Kit	1
96 - 4029	Install Fastener Kit	1

1.1.3 Fastener kits.

94 - 4031 Fastener Kit				Fastener Assembly	
2x		# 90-206	Hex Bolt 5/16"-18 x 7/8" GR-5 ZINC	2x	 #90-206 Hex Bolt 5/16" x 7/8"
2x		# 94-110	Lock Nut 5/16" ZINC		 #98-134 Shoulder Washer
12x		# 96-202	Closed End Blind Rivet 3/16" Type #64		 #98-116 Flat Washer
2x		# 98-134	Shoulder Washer 5/16" NYLON		 #98-116 Flat Washer
4x		# 98-116	Flat Washer 5/16" ZINC	12x	 #96-202 Closed End Blind Rivet

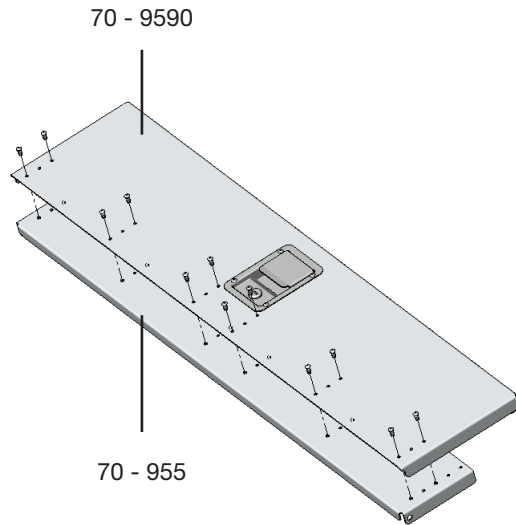
96 - 4029 Fastener Kit				Fastener Assembly	
1x		# 90-212	Hex Bolt 5/16"-18 x 1 - 1/4" GR-5 ZINC	4x	 #90-106 Hex Bolt 1/4" x 1/4"
4x		# 90-106	Hex Bolt 1/4"-20 x 1/2" GR-5 ZINC		 #94-106 Lock Nut
4x		# 94-106	Lock Nut 1/4" ZINC	2x	 #92-200 Screw #10 - 16 x 3/4"
2x		# 92-200	Screw HFH #10 - 16 x 3/4" ZINC		
1x		# 98-143	Spacer .38" ID x .875" OD x .375" L Nylon		

# PHASE 1 – ASSEMBLY

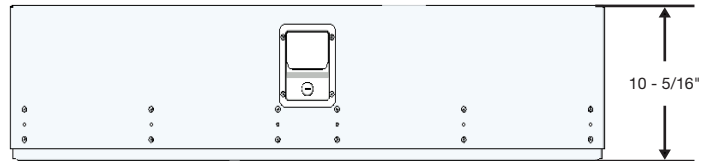
## 1.2 DOOR ASSEMBLY

**1.2.1** Attach the lower door panel to the upper door panel.

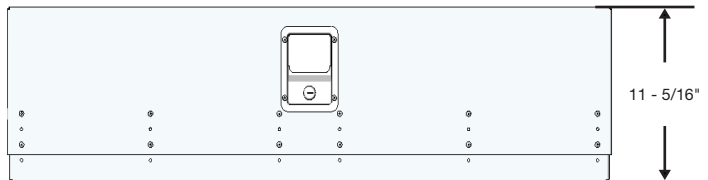
**NOTE:** The height of the door depends on the height between the two shelf trays.



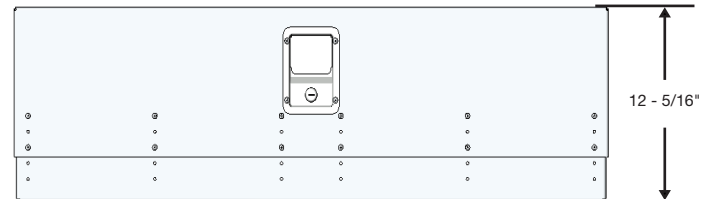
10 - 5/16" Door is for 13" height between two shelf trays or 9 holes.



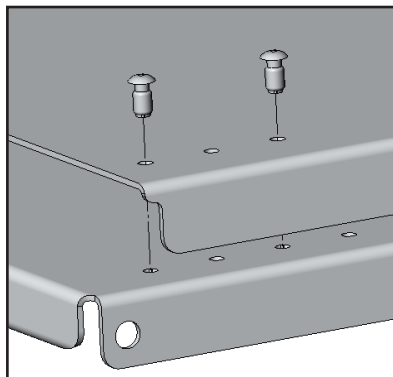
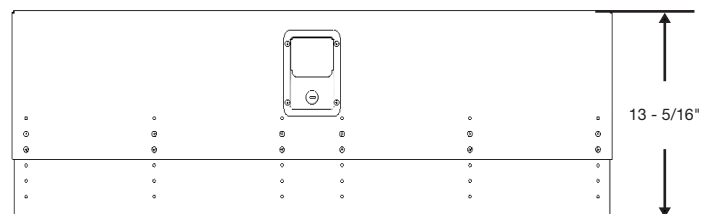
11 - 5/16" Door is for 14" height between two shelf trays or 10 holes.



12 - 5/16" Door is for 15" height between two shelf trays or 11 holes.



13 - 5/16" Door is for 16" height between two shelf trays or 12 holes.



### TOOLS

- Rivet Gun

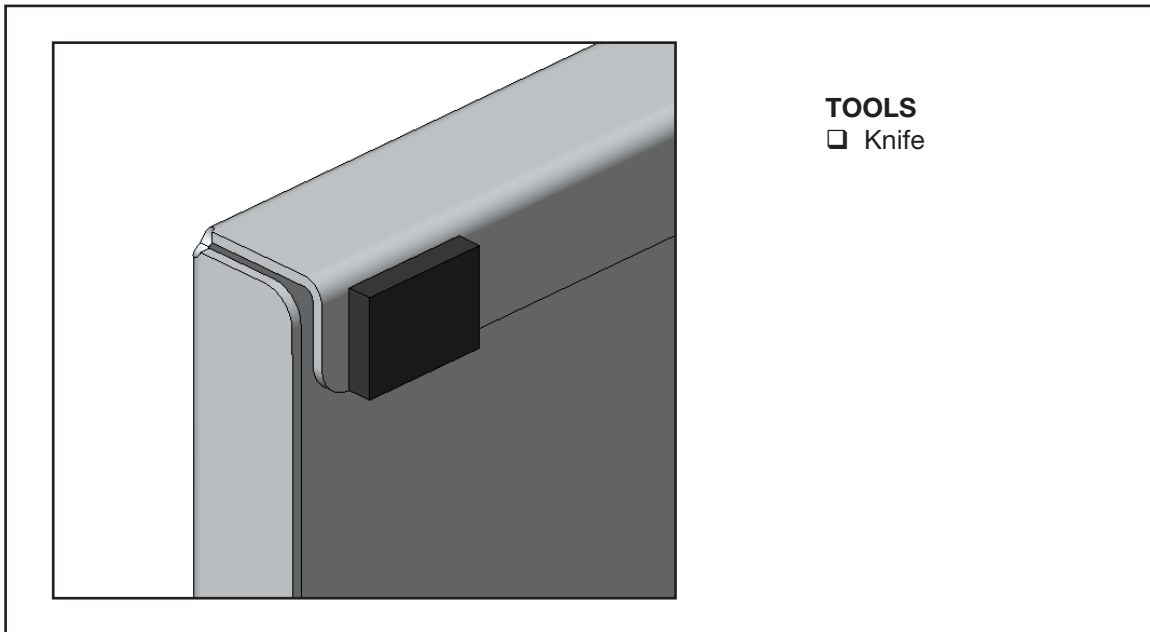
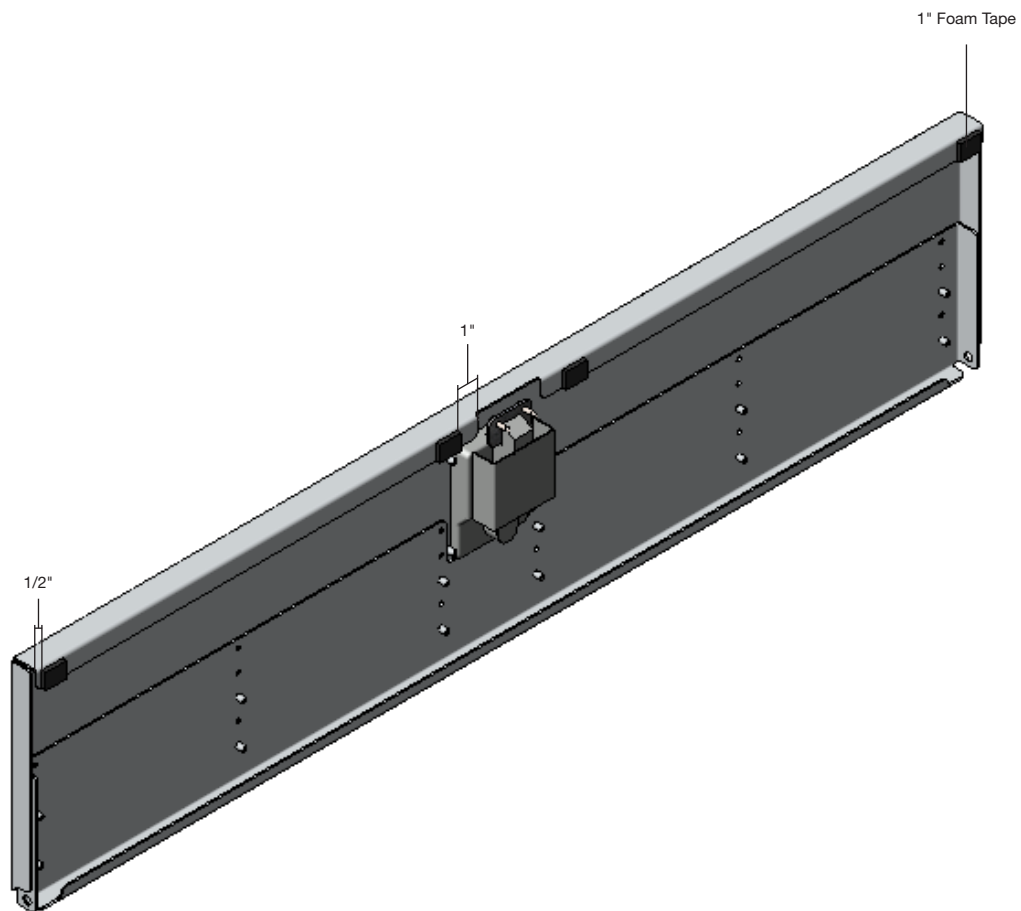
### HARDWARE USED

**12x**

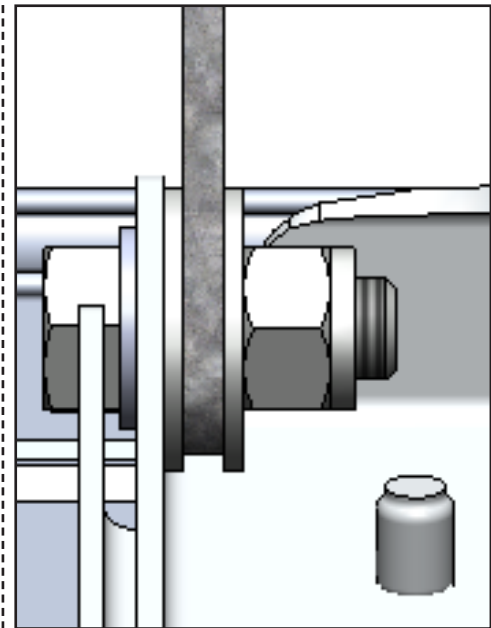
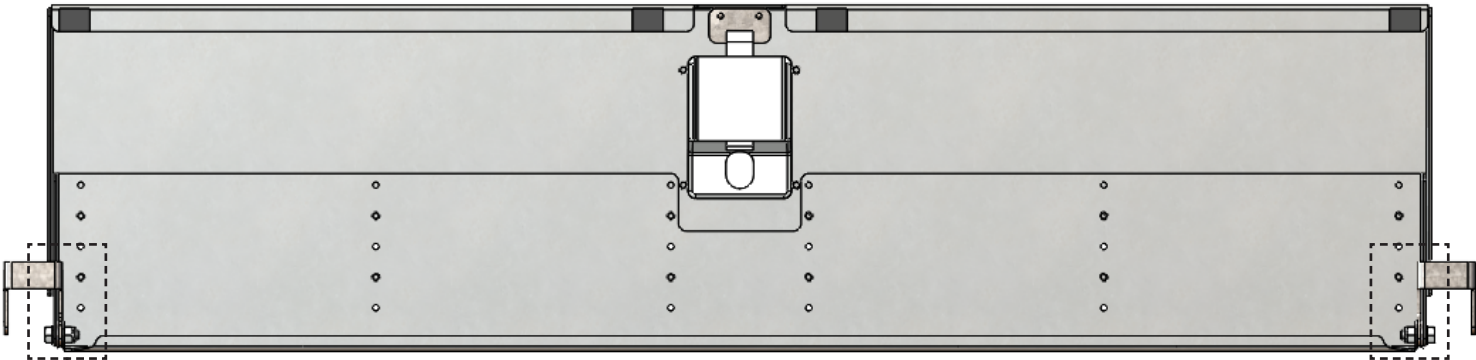


#96-202 Closed End Blind Rivet

**1.2.2** Cut the foam tape into 4 pieces of 1", then attach the foam tape to the upper door panel.



1.2.3 Install left and right door support.



**NOTE:** Do not over tightened the bolts, make sure that the door works smoothly.

**TOOLS**

- 1/2" Wrench ( 2× )

**HARDWARE USED**

**2×**



#90-206 Hex Bolt 5/16" × 7/8"



#98-134 Shoulder Washer



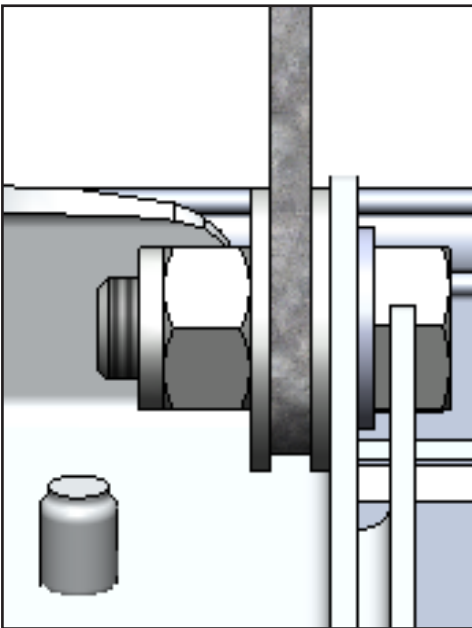
#98-116 Flat Washer



#98-116 Flat Washer



#94-110 Lock Nut

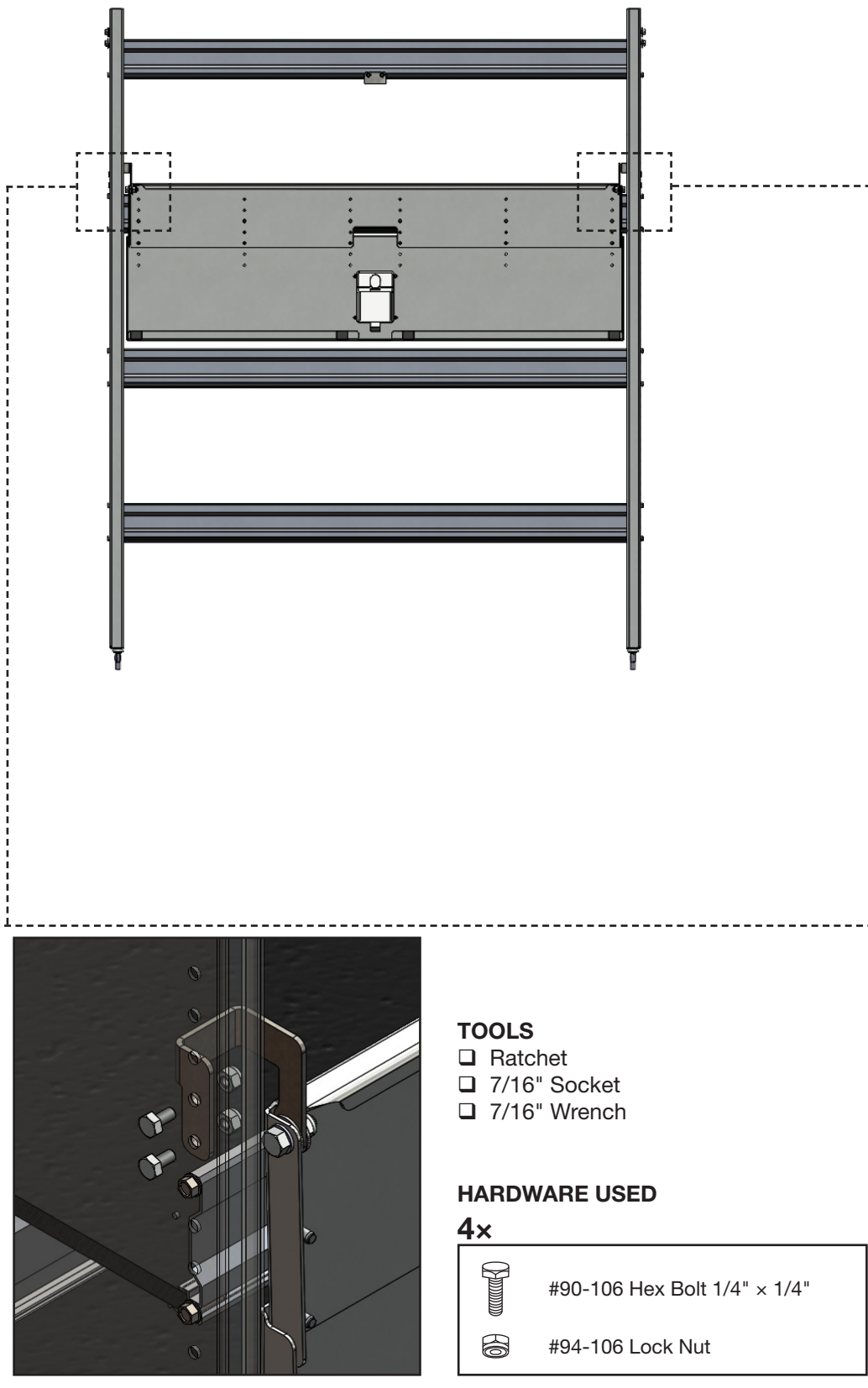




# PHASE 2 – INSTALLATION

## 2.1 DOOR INSTALLATION

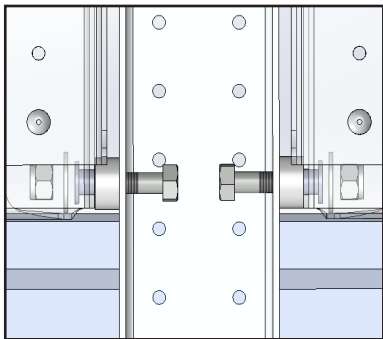
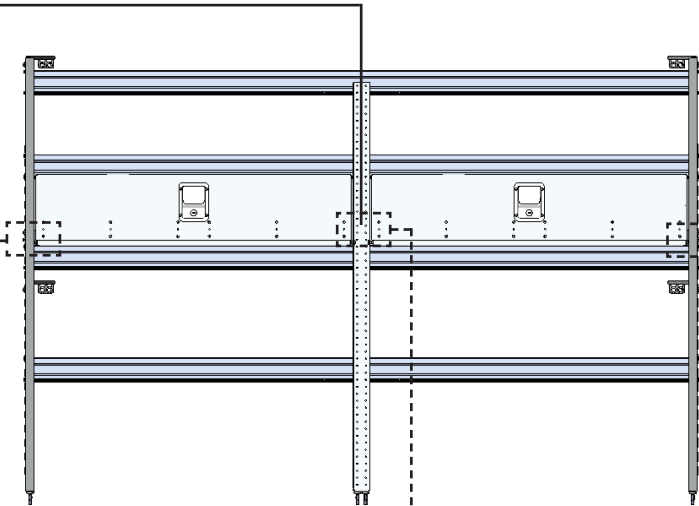
2.1.1 Attach door with support to the end panels.



2.1.3 Attach the door brackets to the end panel, then attach doors to the end panel and center post.

DOOR INSTALLATION IN SHELF W/ CENTER POST

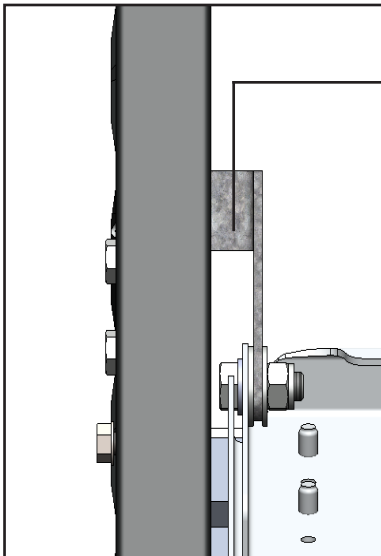
**NOTE:** don't use door brackets on this end of the door.



**TOOLS**  
□ 1/2" Wrench ×2

**HARDWARE USED**  
**2x**

- #90-212 Hex Bolt 5/16" × 1-1/4"
- #98-143 Nylon Spacer
- #98-134 Shoulder Washer
- #98-116 Flat Washer
- #94-110 Lock Nut



Attach the brackets to the door first before installing it into the end panels.

**TOOLS**  
□ 1/2" Wrench (2×)  
□ 7/16" Wrench (2×)

**HARDWARE USED**  
**4x**

- #90-106 Hex Bolt 1/4" × 1/4"
- #94-106 Lock Nut

**HARDWARE USED**  
**2x**

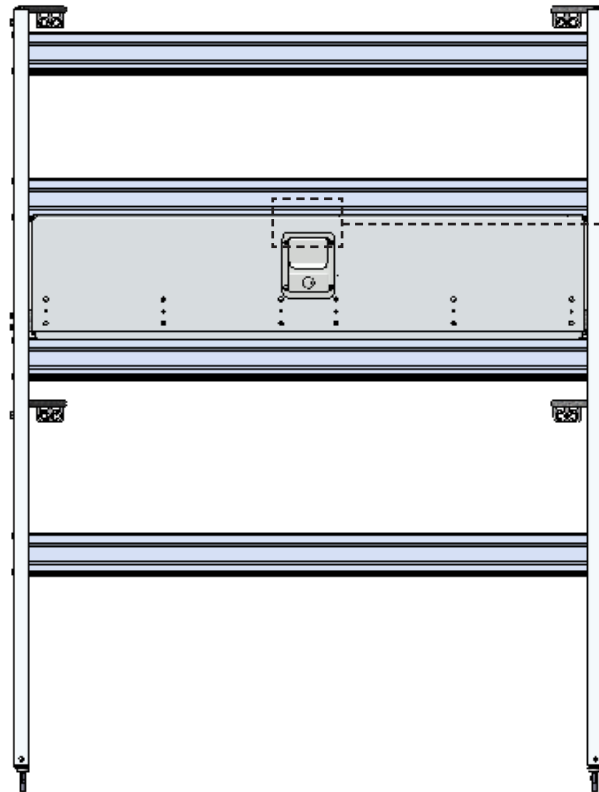
- #90-206 Hex Bolt 5/16" × 7/8"
- #98-134 Shoulder Washer
- #98-116 Flat Washer
- #98-116 Flat Washer
- #94-110 Lock Nut

# PHASE 2 – INSTALLATION

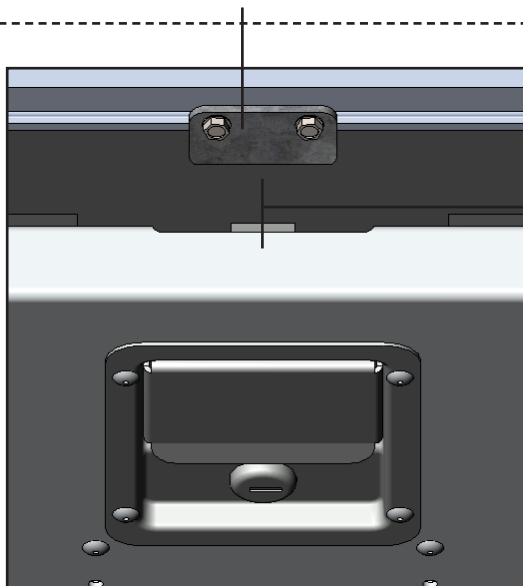
## 2.2 STRIKER PLATE INSTALL

**2.2.1** Screw the striker plate to the shelf tray extrusion.

**NOTE:** Work bench and locker have a different striker plate.



70 - 961



Center of the latch

### TOOLS

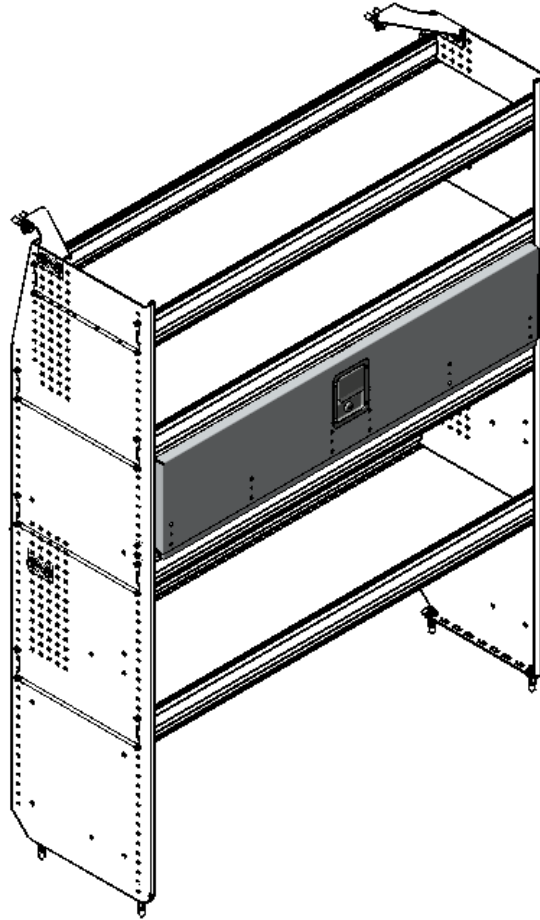
- ☐ Cordless Impact
- ☐ 3/8" Driver Bit

### HARDWARE USED

**2x**



#92-200 Screw #10 - 16 x 3/4"



**“You have successfully installed your  
77-U1048**

**Thank you for doing business with us.”**

For any feedback or suggestions you may have, please contact: [cs@rangerdesign.com](mailto:cs@rangerdesign.com)

