

Rugby Manufacturing Landscaper Manual

INSTALLATION AND OPERATOR'S MANUAL



IMPORTANT!

Read this manual thoroughly prior to installation and operation. This manual outlines the installation and operation of a Knockdown Landscaper manufactured by Rugby Manufacturing Co. This manual should be kept readily accessible for any potential operator at all times.

Should you have any questions or concerns, please contact your dealer or a Rugby Manufacturing customer service representative before use.

Toll Free: 1-800-869-9162 • Fax: 1-701-776-6235

Visit www.rugbymfg.com for further information.

Serial Number: _____

In Service Date: _____

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How to Use This Manual

This manual provides guidelines and instructions for correctly operating and maintaining your Rugby Manufacturing product. Any and all people that own and operate a Rugby Manufacturing platform are recommended to read and fully understand each section in this manual.

Labels

Throughout this manual, the three following types of labels will be used: **danger**, **warning**, and **caution**. For the safety of the operator, it is imperative that all labels are obeyed.



! DANGER

Danger: Indicate[s] a hazardous situation which, if not avoided, will result in death or serious injury.



! WARNING

Warning: Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.



! CAUTION

Caution: Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury.

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Reference Information

Serial Number

This information is required for any warranty or service inquiries, and should be recorded on the front page of this manual for easy reference.

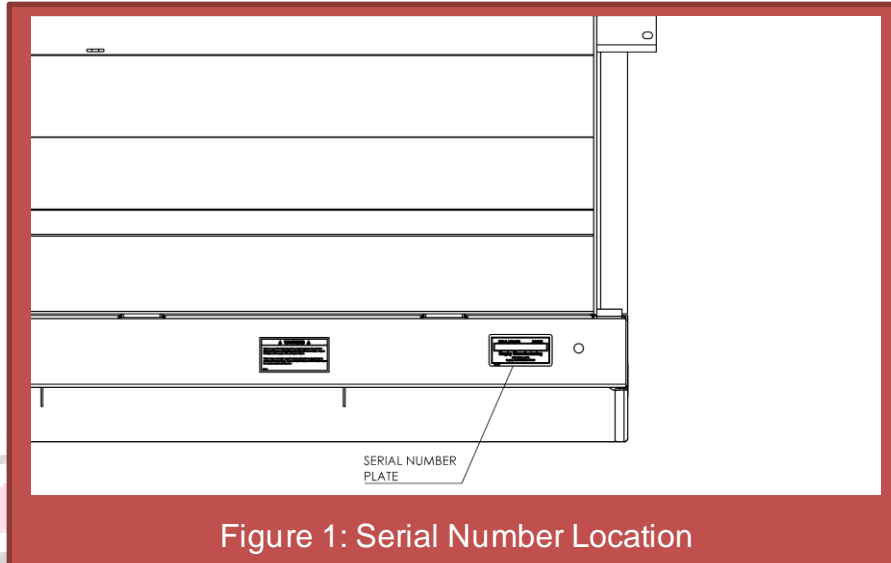


Figure 1: Serial Number Location

The serial number is located on the driver's side, towards the rear of the body, on the outside of the body (**Figure 1**).

Torque Values Chart




Size	Grade 2 Torque	Grade 5 Torque	Grade 8 Torque
			
1/4-20	3-4 lb-ft	6-7 lb-ft	10-11 lb-ft
1/4-28	4-5 lb-ft	8-9 lb-ft	11-12 lb-ft
5/16-18	8-9 lb-ft	14-15 lb-ft	21-22 lb-ft
5/16-24	9-10 lb-ft	15-16 lb-ft	21-22 lb-ft
3/8-16	17-18 lb-ft	24-26 lb-ft	37-40 lb-ft
3/8-24	19-20 lb-ft	28-30 lb-ft	40-43 lb-ft
1/2-13	38-42 lb-ft	60-65 lb-ft	90-100 lb-ft
1/2-20	43-47 lb-ft	70-75 lb-ft	95-105 lb-ft
5/8-11	75-80 lb-ft	122-130 lb-ft	180-190 lb-ft
5/8-18	85-90 lb-ft	145-150 lb-ft	200-210 lb-ft
3/4-10	132-140 lb-ft	220-230 lb-ft	315-330 lb-ft
3/4-16	152-160 lb-ft	250-260 lb-ft	355-370 lb-ft

Figure 2: Torque Values Chart

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General Safety

DANGER

Being under a raised body can result in serious injury or death should the body unexpectedly descend. **NEVER** position yourself or allow others to position themselves under a loaded body or unloaded unsupported body. Always prop the unloaded body with the supplied body prop/props. Remember body props are to be used only on an unloaded body. When two props are provided, both props must be used. After the body prop/props are raised, lower the body to rest on the body prop/props.

DANGER

Welding, oxy-fuel cutting, or grinding sparks can cause fuel to ignite that in turn can lead to injury or death. Always take adequate steps to avoid ignition of fuel from fuel tanks when welding, grinding, or oxy-fuel cutting during equipment installation.

DANGER

Heat from the truck's exhaust system can cause hydraulic component failure and may lead to a fire that could cause injury or death. Always install equipment in locations where heat from the exhaust system will not damage any hydraulic component.

DANGER

Do not raise or drive a raised body against a power line. Bringing body in contact with a power line or a power source will result in serious injury or death by electrocution.

DANGER

Do not dump while on uneven ground or if vehicle is in an uneven position from side to side. Dumping unevenly can cause vehicle to overturn and cause equipment or property damage, bodily injury or death.

WARNING

Overloading of a truck can cause truck component damage, injury or death. Never exceed the gross vehicle weight (GVW) or gross axle weight (GAW) rating of your vehicle.

WARNING

Do not raise or drive a raised body against another object. Doing so could result in equipment or property damage, injury or death.

WARNING

Bouncing or jerking of the hoist is to be avoided as it may result in component failure, injury or death.

WARNING

Malfunctioning equipment can cause property damage, injury or death. Always have faulty equipment repaired before continuing its use. Consult the manufacturer if required.

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WARNING

The inadvertent shorting of the vehicle's electrical supply can cause a fire or equipment damage could lead to injury or death. Always disconnect the vehicle battery prior to installing, servicing, or repairing the power unit.

WARNING

Damage to brake lines during equipment installation, or installing bolts or equipment in such a way that the line will rub and become damaged can lead to brake failure which can cause an accident and can lead to severe injury or death. Always take adequate steps to prevent brake line damage during installation and isolate brake lines from installed equipment.

WARNING

Stay clear of dump body when dumping. Moving vehicle parts or the moving load could cause injury or death.

WARNING

Make sure all doors are closed and latched before moving vehicle. Swinging doors or falling objects can cause equipment or property damage, bodily injury or death.

WARNING

Check load to make sure that rocks or any other object will not spill out of vehicle while transporting load. Falling objects can cause equipment or property damage, bodily injury or death.

WARNING

Not installing or operating equipment correctly can cause component damage or an accident that may cause injury or death. Always install and operate equipment in accordance with manufacturer's instructions. Read and understand this manual fully before proceeding.

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Installation

CAUTION

Installation of the bulkhead, bolt-on sides, doors, and associated components requires two people to accomplish easily and safely. Avoid placing hands or other body parts in locations where they could be pinched or crushed by the components during installation.

Front & Sides

1. Start by putting the Left Side, Right Side, and Front onto the Platform. This task will require 2 people to accomplish easily. After placing each side and front, install Flange Bolts per step 2 before proceeding.

TIP: For easier installation, put the Sides in first, then the Front.

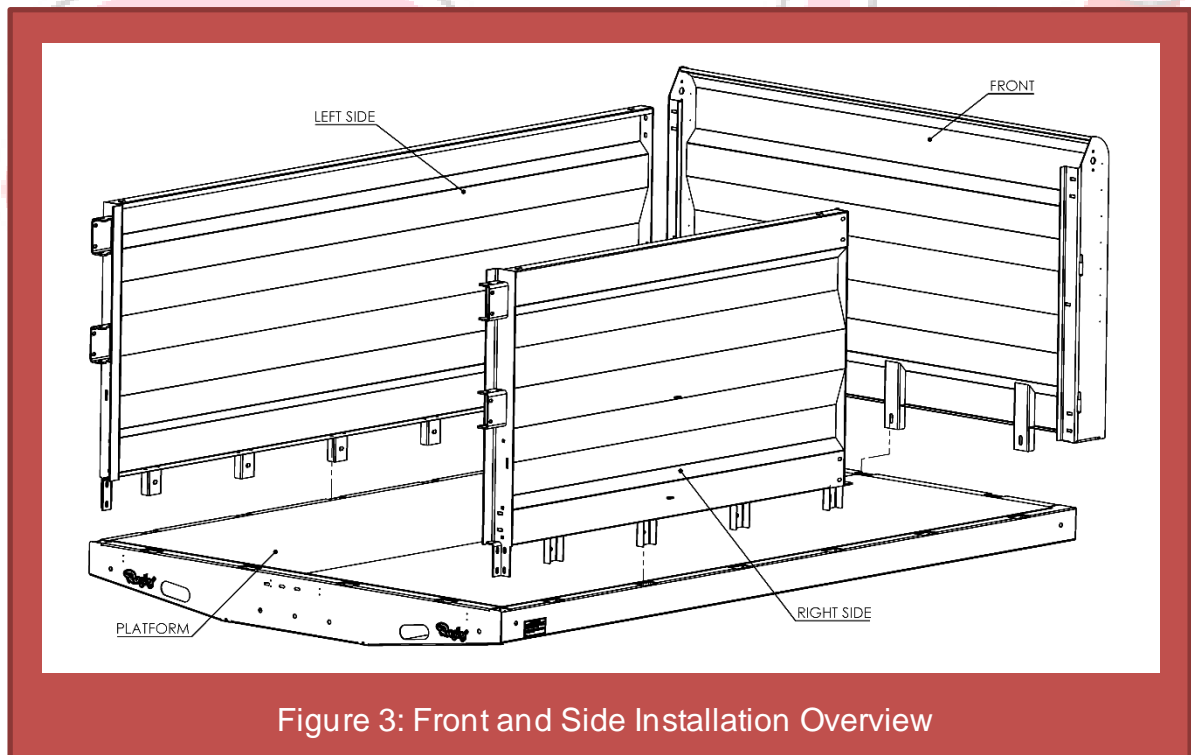
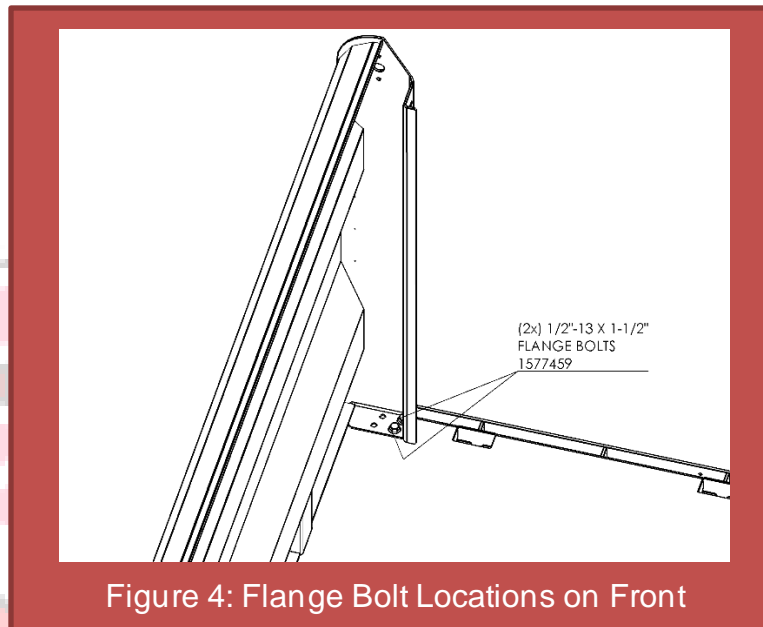


Figure 3: Front and Side Installation Overview

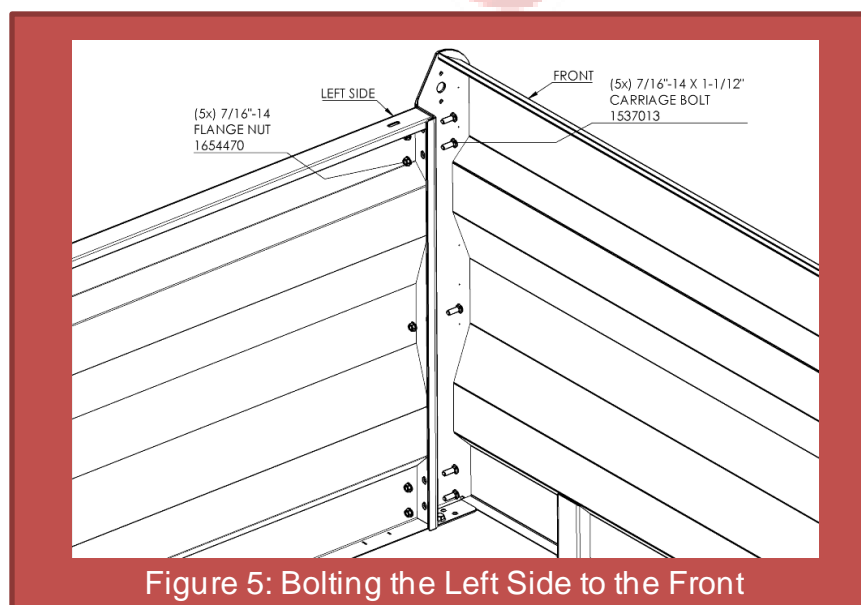
NOTE: Side stakes and the Front uses 1/2" X 1-1/2" (1577459) Grade 5 Flange Bolts and 1/2" (1576016) Grade 5 Flange Nuts. Bolt-on hinges for the rear doors and side door use black zinc coated 1/2" X 1-1/2" (2610230) Grade 5 Flange Bolts and black zinc coated 1/2" (2610230) Grade 5 Flange Nuts.

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2. Bolt the Front right corner of the bulkhead down using 1/2" X 1-1/2" Flange Bolts (1577459) and 1/2" Flange Nuts (1576016). This step will require 1 person inside the body to insert the bolt, and 1 person under the body to thread the nut. The person on the underside of the body will continue to bolt in the side stakes. The two (2x) 1/2" X 1- 1/2" bolts may need to have a 9/16" hole drilled through the floor for installation, depending on the model of platform. Hand-tighten the nuts, do not tighten with a wrench. The bolts must be loose to allow for squaring the sides later. Refer to **Figure 4** and **Figure 6** for 1/2" X 1-1/2" flange bolt locations for the front right corner.



3. Bolt the Left Side to the Front using 7/16" X 1-1/2" Carriage Bolts (1537013) and 7/16" Flange Nuts (1654470). Refer to **Figure 5**.



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4. Bolt the rear corners of the Sides to the Platform using 1/2" X 1" Flange Bolts (1654460) and 1/2" Flange Nuts (1576016). The 1/2" X 1- 1/2" Flange Bolts may need to have a 9/16" hole drilled through the stake pockets for installation, depending on the model of platform. Bolt the side stakes to the stake pockets using 1/2" X 1-1/2" Flange Bolts (1577459) and 1/2" Flange Nuts (1576016). Refer to **Figure 6**.

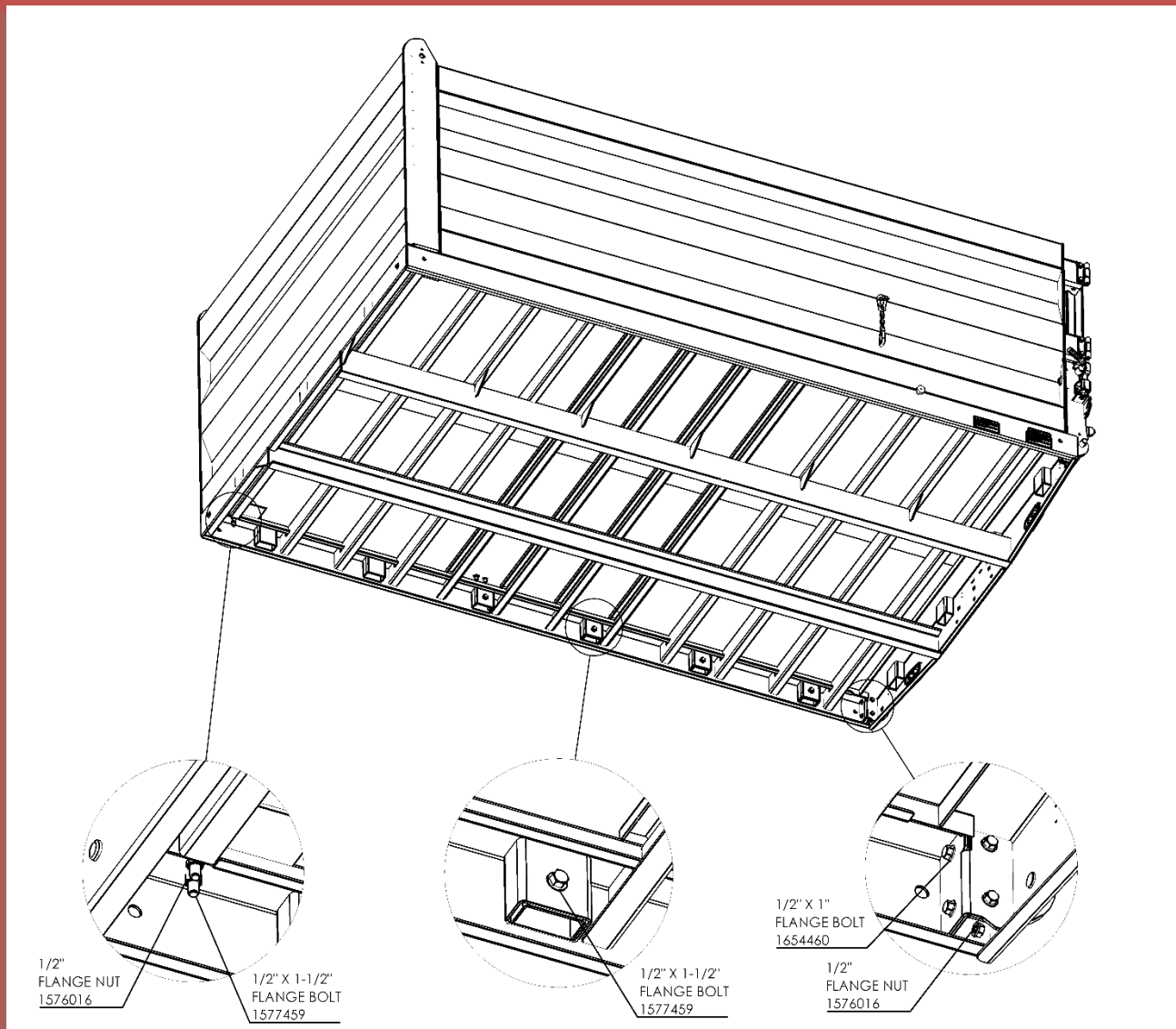


Figure 6: Bolting under the Platform on the Right Side

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5. Tighten bolts on the right side shown in **Figure 6** to spec. Refer to **Figure 2**.
6. Bolt the side reinforcement to the floor of the platform.
 - a. The Reinforcement firmly holds the Right Side upright by fastening the Reinforcement to the floor of the platform. To correctly position the mounting location for fastening, the right side must be installed and tightly fastened. Locate the Reinforcement and mark the location in the center of the square hole of the Reinforcement. Refer to **Figure 7**.
 - b. Next, drill two (2x) 7/16" holes in the floor of the platform, one at each of the marked locations. Refer to **Figure 7**.
 - c. Then, mount the reinforcement with two (2x) 7/16" X 1-1/2" Carriage Bolts (1537013) fastened by two (2x) 7/16" Flange Nuts (1654470) on the bottom side of the platform. Refer to **Figure 7**.
 - d. Hand-tighten the nuts, do not tighten with a wrench. Loosen all bolts that were tightened during this process for squaring of the sides later.

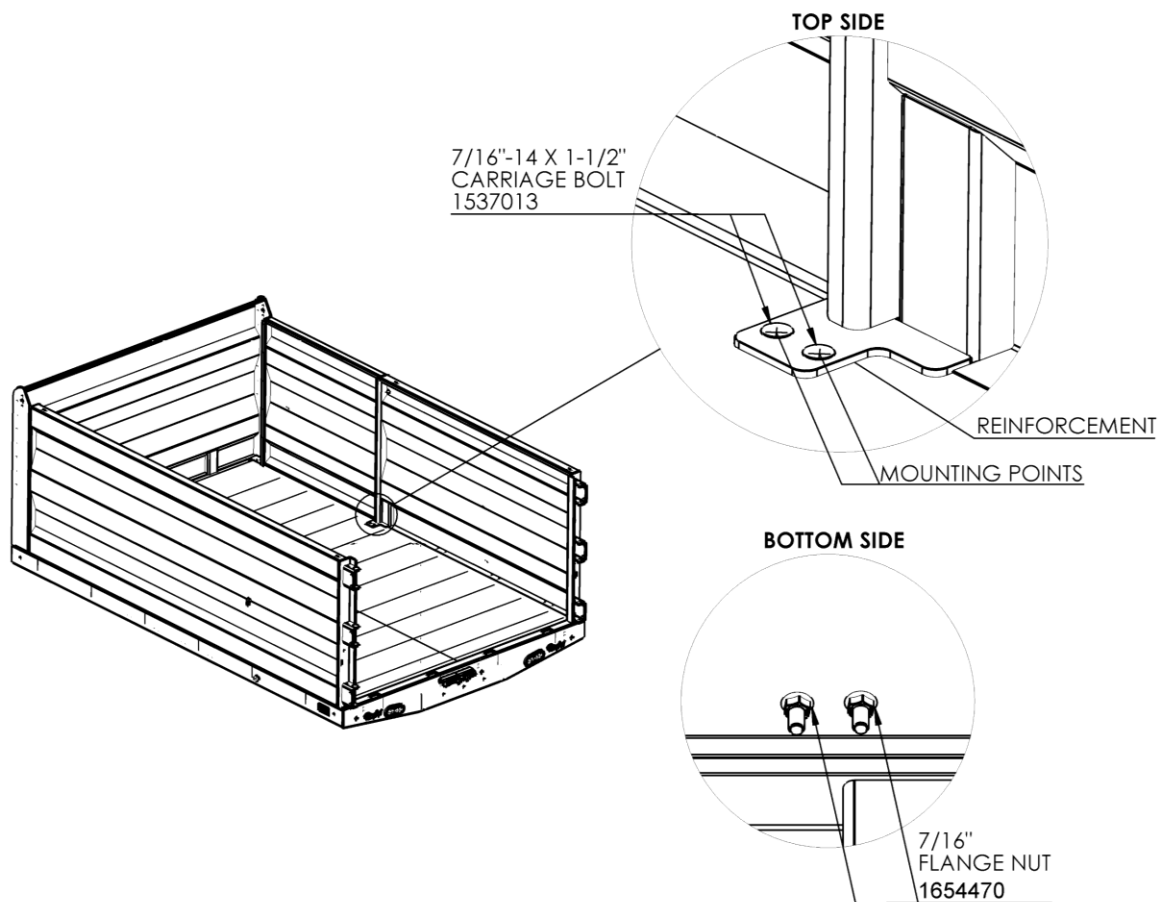


Figure 7: Bolting Right Side to the Platform

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Side & Rear 3-Piece Doors

7. To install the left and right rear doors, bolt the hinges to the two upper hinge mounts using 1/2" X 1-1/2" Black Zinc Flange Bolts (2610228) and 1/2" Black Zinc Flange Nuts (2610230) as shown in **Figure 8**.

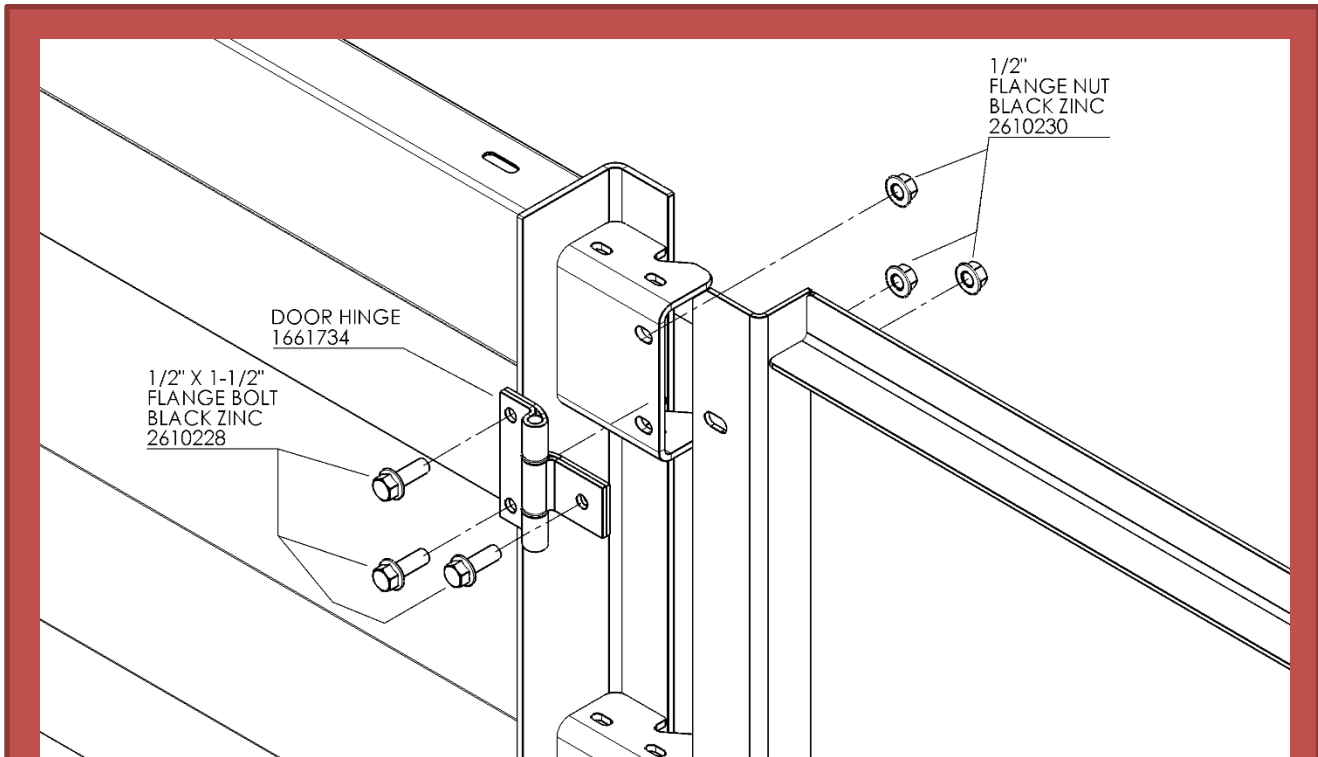


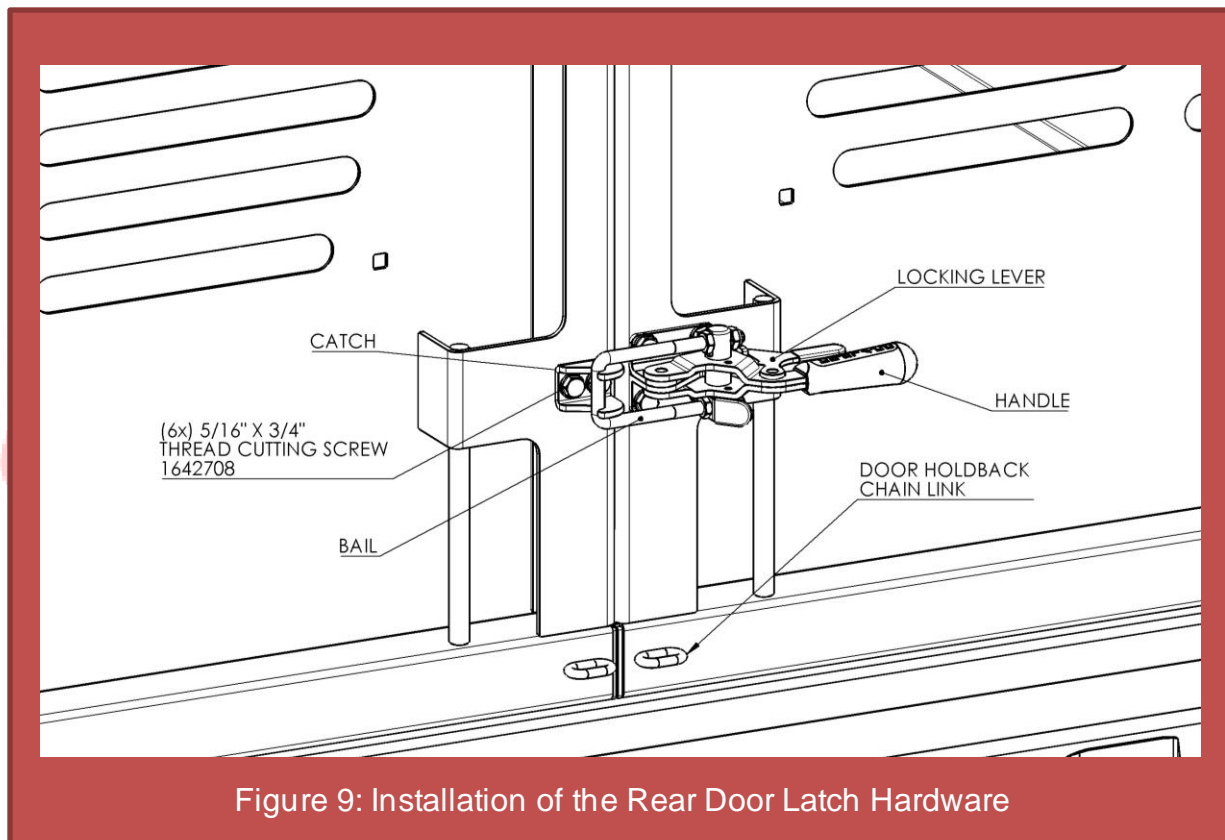
Figure 8: Assembly of the Rear Door Hinges to the Two Upper-Hinge Mounts

NOTE: Each Hinge requires (3x) 1/2" X 1-1/2" Black Zinc Flange Bolts (2610228) and (3x) 1/2" Black Zinc Flange Nuts (2610230).

NOTE: If the doors are misaligned after installation, loosen all the bolts on the hinges and correctly align the door. This correction is easier with two people.

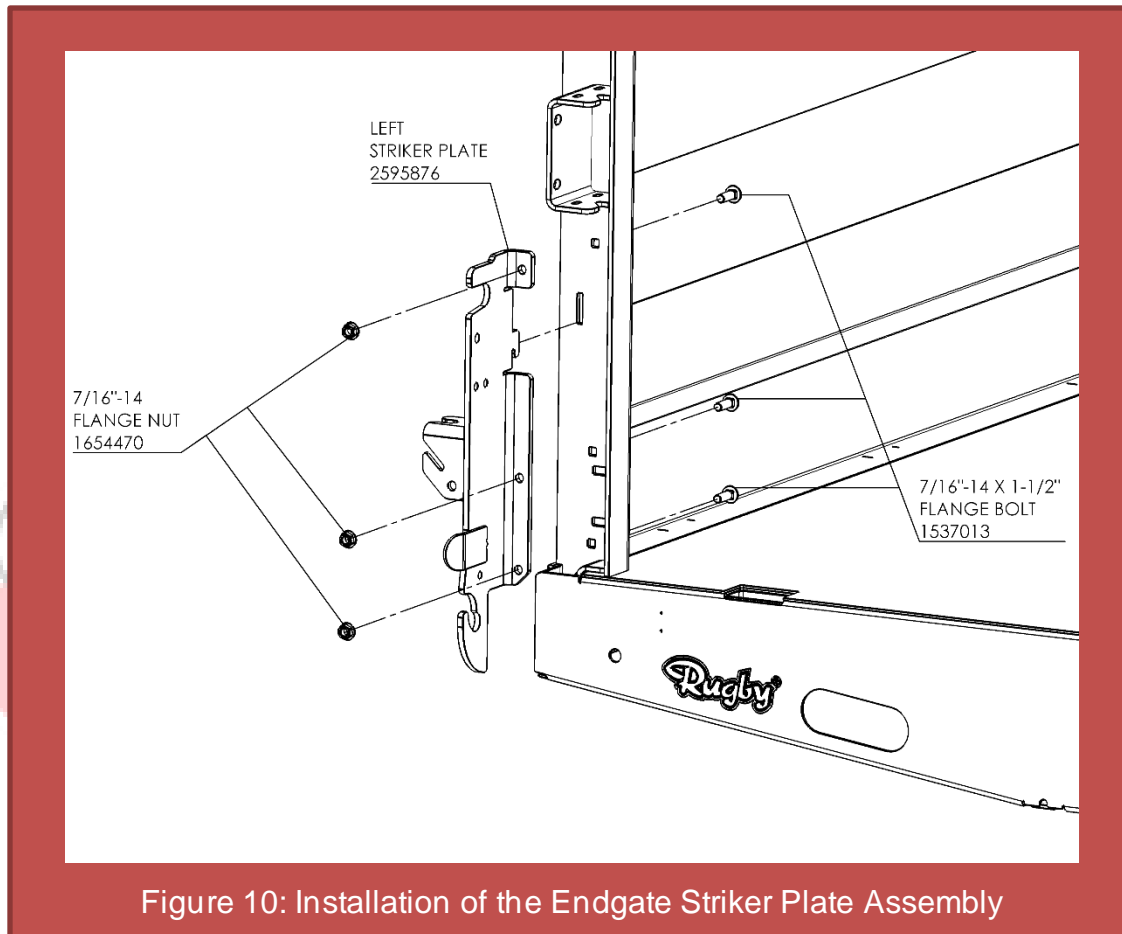
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8. Install the top rear door latch hardware. Position the Locking Lever assembly on the right door and the Catch on the left door as shown in **Figure 9**. Mark the six (6x) positions of the bolt holes (4x on the Locking Lever assembly and 2x on the Catch) then drill six (6x) 19/64" holes.
9. Fasten the Rear Door Latch Hardware with 5/16" x 3/4" Thread Cutting Screws (1642708).
10. Adjust the U-bolt so the doors close tightly. Close and latch the doors. Adjust and tighten the hinge bolts to get the proper fit of the doors.



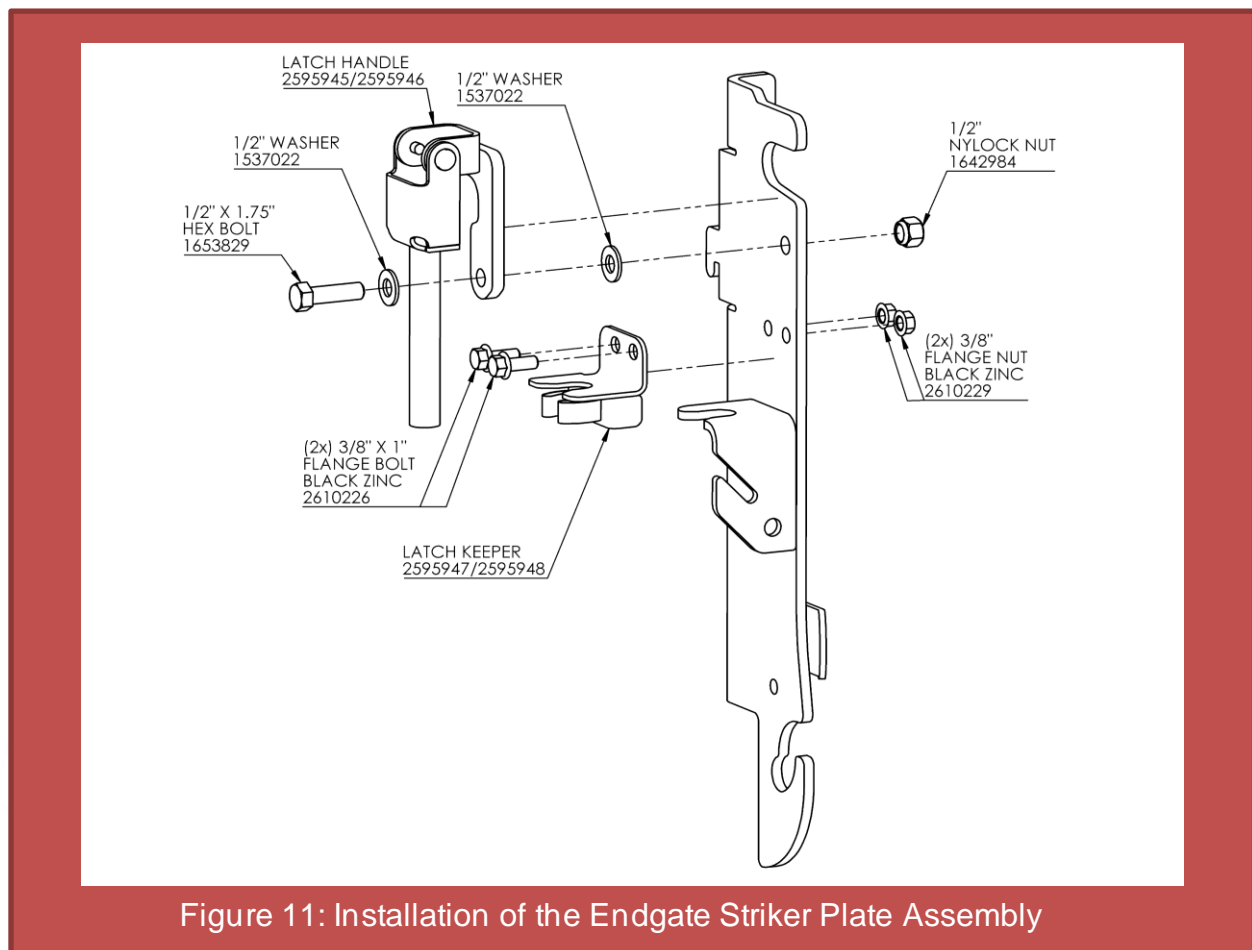
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11. Install the Endgate Striker Plate Assembly. Slide the tab on the bracket into the slot on the rear of the side panels. Secure the brackets with (3x) 7/16" x 1-1/2" Carriage Bolts (1537013) and (3x) 7/16" Flange Nuts (1654470). Refer to **Figure 10**.



12. Install the driver side Endgate Striker Plate Assembly Hardware. Position the Latch Keeper with the two bottom holes in-line with the holes on the striker plate assembly and secure with the (2x) 3/8" Black Zinc Bolts (2610226) and a (2x) 3/8" Black Zinc Flange Nuts (2610229) provided.
13. Install the EZ-LATCH™ Handle (2580163) and secure with the 1/2" Nylock Nut (1642984) provided. To correctly install the handle to the striker plate, add a washer to the bolt before inserting it into the latch handle, next add one more washer to the bolt, and then secure the latch with the Nylock Nut provided. Refer to **Figure 11**.
14. Repeat steps 11, 12, and 13 for the passenger side.

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15. Install the Endgate by placing the bottom shafts into the lower grooves. Close the Endgate and secure with the Latch Handles on both sides. Install the lower shaft keepers (1397417) and secure with the 3/8" Black Zinc Flange Bolts (2610226) and 3/8" Black Zinc Flange Nuts (2610229) provided. Refer to **Figure 12**.
16. Attach the chain to both sides of the Endgate using the chain and connector provided. Place the free end of the chains into the slotted keeper in the corner post. Adjust so that both sides are even, and the Endgate is horizontal when supported by the chains.

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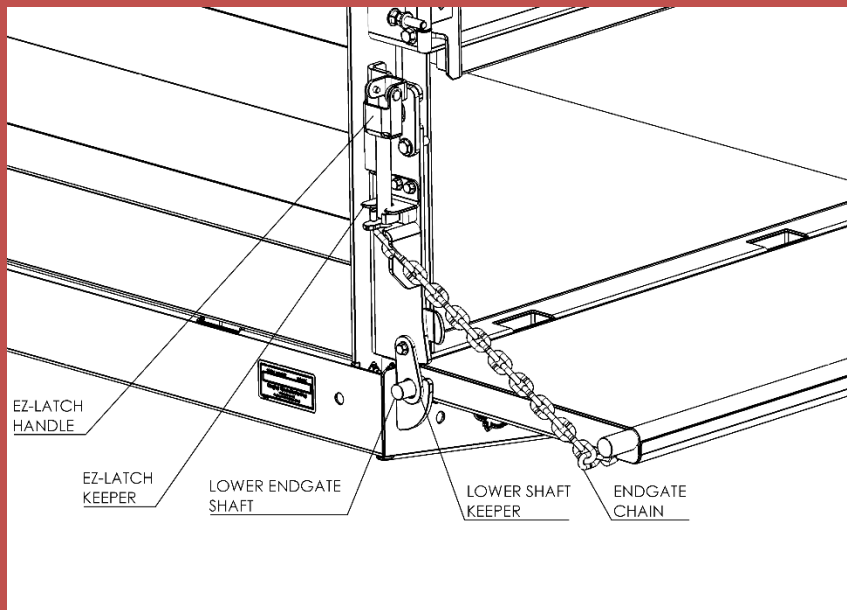


Figure 12: Installation of the Endgate Chain and Lower Endgate Keeper

17. Install the Side Door (2595837) on the right side, bolt the side door hinges to the side then to the door, with 1/2" X 1" Black Zinc Flange Bolts (2610228) and 1/2" Black Zinc Flange Nuts (2610230). Refer to **Figure 8**. Place the Brass 0.39" Weld Hinge Bushings (1539879) onto the hinge pins on the right side of the Front. Place the Latch Plate on hinges pins. Close and latch the door using the latch. Refer to **Figure 13**.

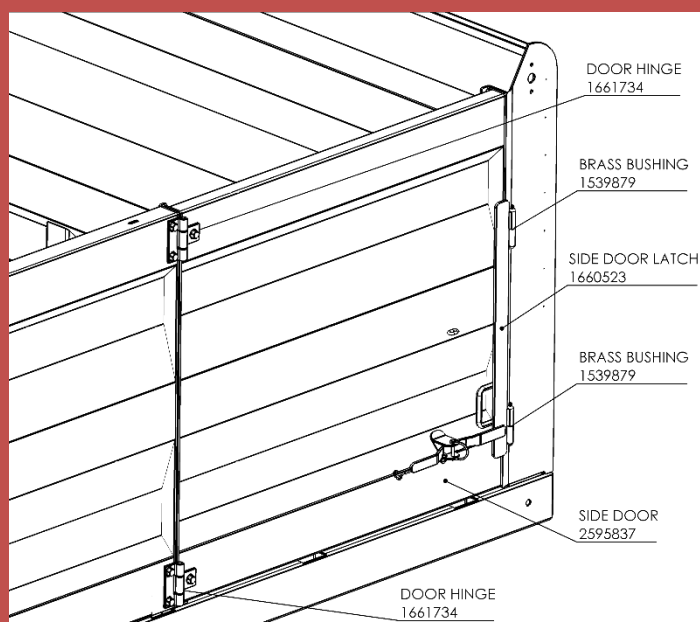
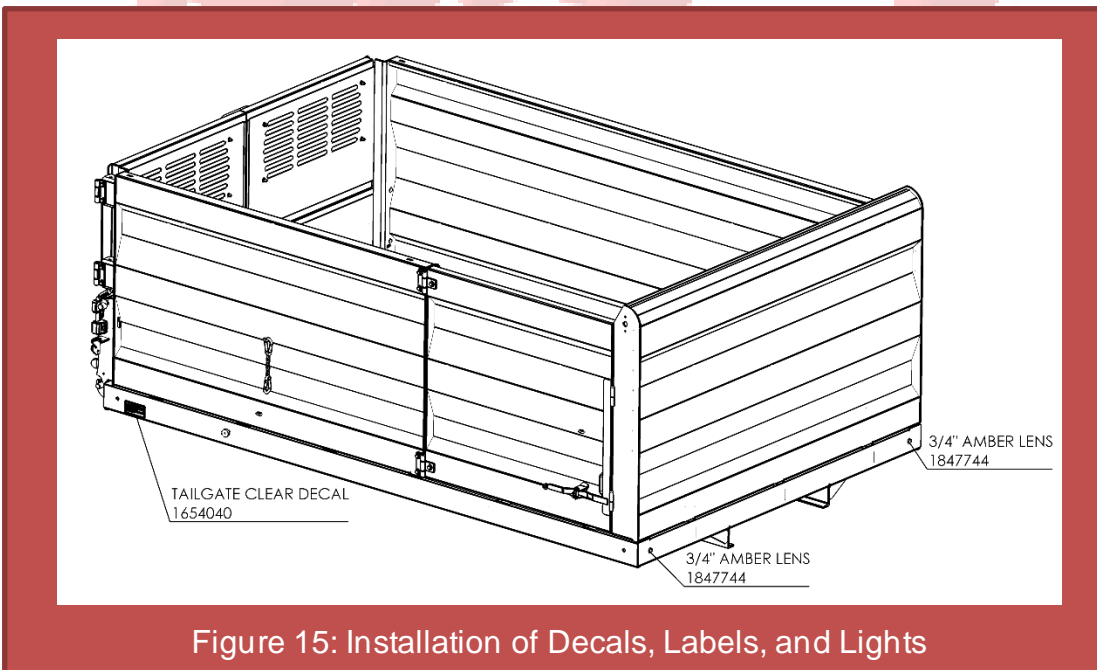
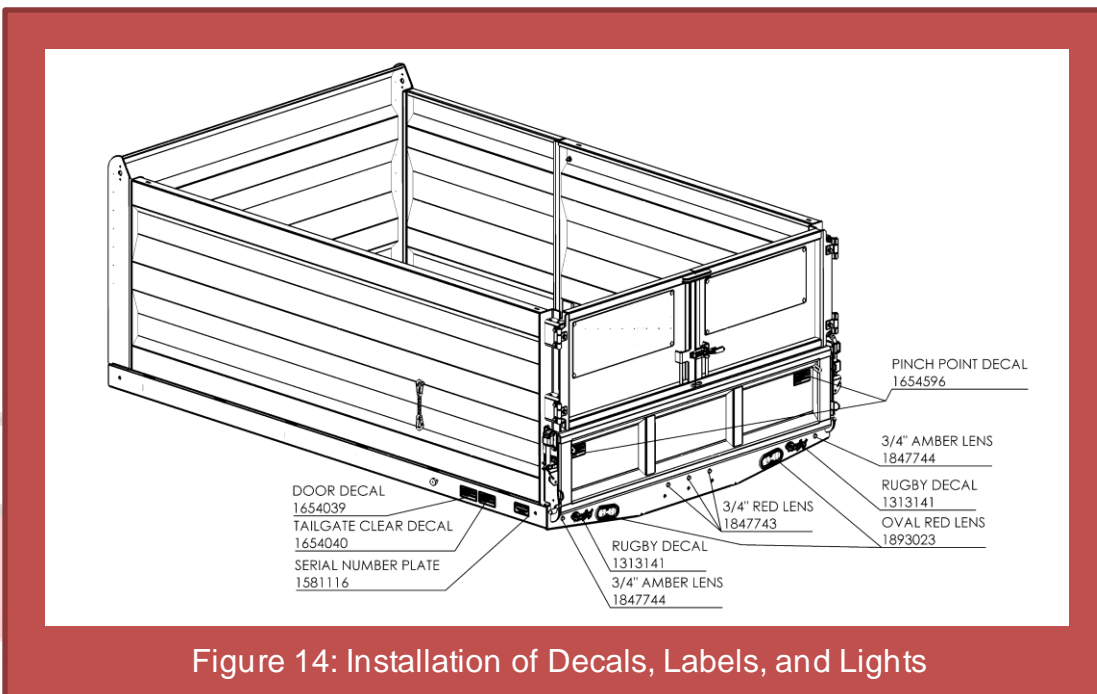


Figure 13: Installation of the Right Side Door

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Lights & Decals

18. Square the front and sides and tighten all bolts down according to the torque chart (**Figure 2**). Use the rear doors as a guide to make sure the sides are even.
19. Install the Handle Cover (1660551) over the side door latch handle.
20. Grease the grease fittings located on the side door hinges.
21. Install labels, decals, and lights, as shown in **Figure 14** and **Figure 15**.



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Operation Instructions

NOTE: Follow good safety practices and be aware of your surroundings when operating this product. Read and follow the general warnings found at the beginning of this manual.

Side Door

The Side Door is opened by removing the pin that holds the handle closed. After the pin is removed, the handle can swing out of the way, and the door can be opened. To close the door, swing the door shut, close the latch, and re-insert the pin, making sure the bail goes over the end of the pin.

To hold the Side Door open, fold the door back against the side of the body, use the chain with carabiner attached located on to the right side panel, and clip the carabiner onto the chain link located on the door. To release the door, push the carabiner's spring-clip open, lift the carabiner away from the chain link, and pull the Side Door to the closed position.

⚠ CAUTION

Always close and secure the doors before moving the vehicle. Failure to do so may result in the doors swinging out. If the swinging door strikes a person, serious injury or death could result. In addition, the landscaper may be damaged.

Rear Door

The rear doors are equipped with an over center locking clamp to close and hold the doors securely. To open the doors, squeeze the locking lever and pull the handle forward. Fold the doors back against the sides of the body. The doors are equipped with a chain link style holdback on the sides of the body, similar to the side door. Use these to hold the door open while dumping, loading, or unloading. Refer to **Figure 9**.

⚠ CAUTION

The door holdbacks are not designed to hold the doors open while the vehicle is moving. Never rely on them to do this. Always close and secure the doors before moving the vehicle.

To close the doors, swing the doors into position. Position the clamp bail over the catch, and push the lever to its closed position, making sure the locking lever engages its catch.

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Endgate

The Endgate is designed so that it can be closed, opened, or removed. Avoid placing hands or any other body parts in locations where they could be pinched by the tailgate. The tailgate is heavy, and serious injury could result. Refer to **Figure 12** for component identification.

Opening and Closing the Endgate

1. Make sure the lower shafts are in their proper slots on both sides. Make sure the lower shafts are secured with the lower shaft keepers. Make sure the Endgate chains are installed correctly. Open the upper Endgate latch on one side of the body.
2. Repeat Step #1 for the upper latch on the other side while holding the Endgate closed.
3. Allow the Endgate to rotate open until the chains hold it in position. The Endgate should be parallel to the floor of the landscaper.
4. To close the Endgate, rotate the top of the Endgate up.
5. Close one top Endgate latch first, then the other.

CAUTION

Failure to support the Endgate top while opening the Endgate will result in the Endgate rotating open uncontrollably and could result in serious injury. Support the Endgate at the very top while opening the Endgate.

CAUTION

Failure to keep extremities away from chains and other pinch points while opening the Endgate could result in serious injury. When opening the Endgate, hold the Endgate only at the very top away from chains and other pinch.

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Removing and Installing the Endgate

1. Open the Endgate following the directions given above for opening the Endgate.
2. Remove the lower shaft keepers.
3. Lift up slightly and push in on the Endgate. Remove the chains from the corner posts.
4. The Endgate can now be pulled away from the body. Be sure to support the Endgate to prevent it from swinging uncontrollably and causing injury.
5. To re-install the Endgate, lift the Endgate so that the lower shafts are in the grooves.
6. Re-attach the chains to the corner posts.
7. Reinstall the lower shaft keepers.
8. Close the Endgate following the directions given above for closing the Endgate.

CAUTION

The Endgate is heavy and awkward to handle. It is best to have two people remove the Endgate. Keep extremities away from pinch points while removing the Endgate. The Endgate must be properly supported to prevent it from dropping.

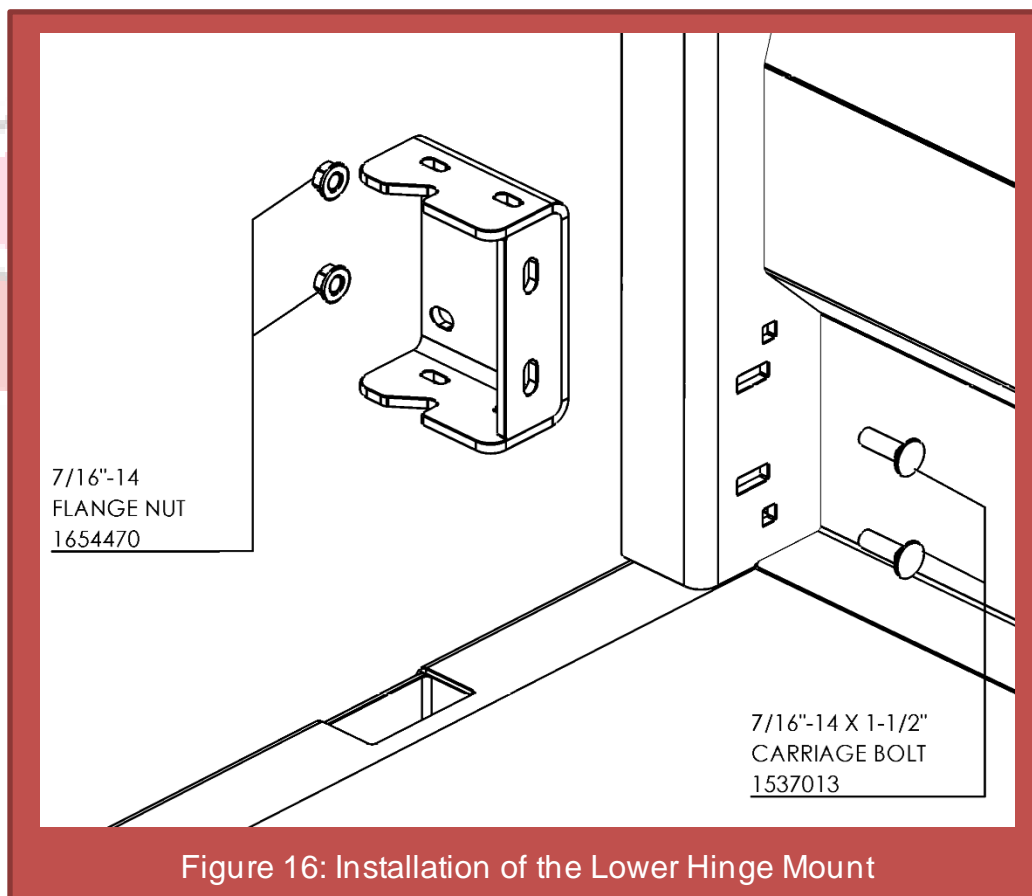
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Optional Equipment Installation

Full Height 2-Piece Barn Doors with Cam Latch

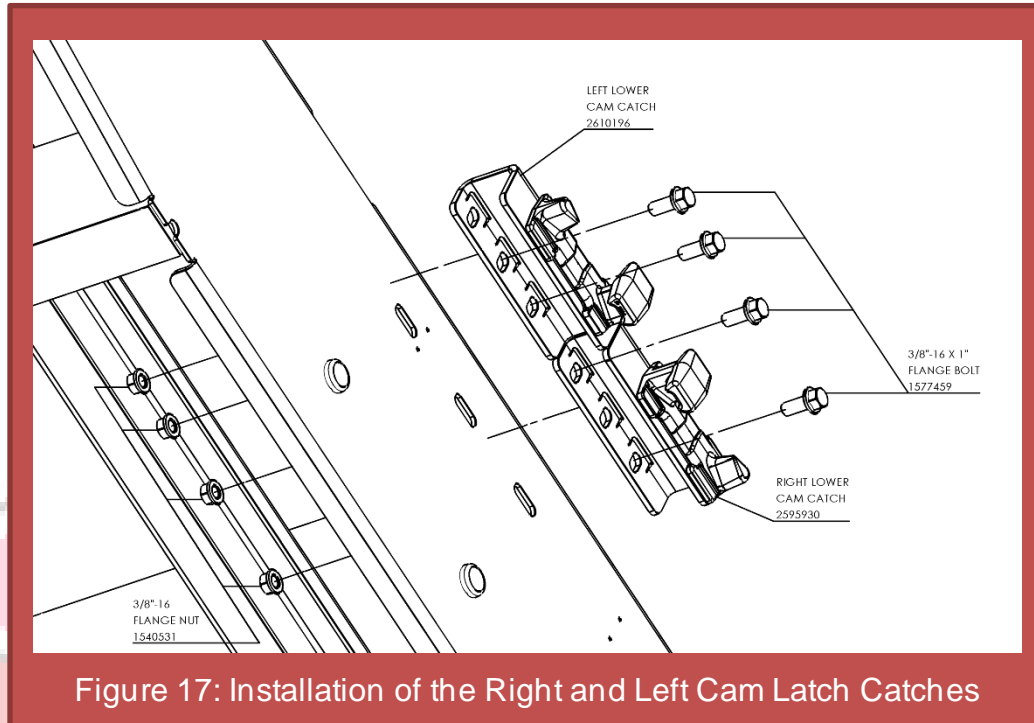
The landscaper can be ordered with optional full height 2-piece barn doors. These replace the standard 3-piece doors and Endgate.

1. The barn doors come with a lower bracket (2383616) which bolts to the rear post of the side panels. Secure the lower bracket using (2x) 7/16" X 1-1/2" Carriage Bolts (1537013) and (2x) 7/16" Flange Nuts (1654470). The door hinges then bolt to the lower bracket and the standard upper brackets using (3x) 1/2" X 1-1/2" Black Zinc Flange Bolts (2610228) and (3x) 1/2" Black Zinc Flange Nuts (2610230). Refer to [Figure 8](#) and [Figure 16](#).

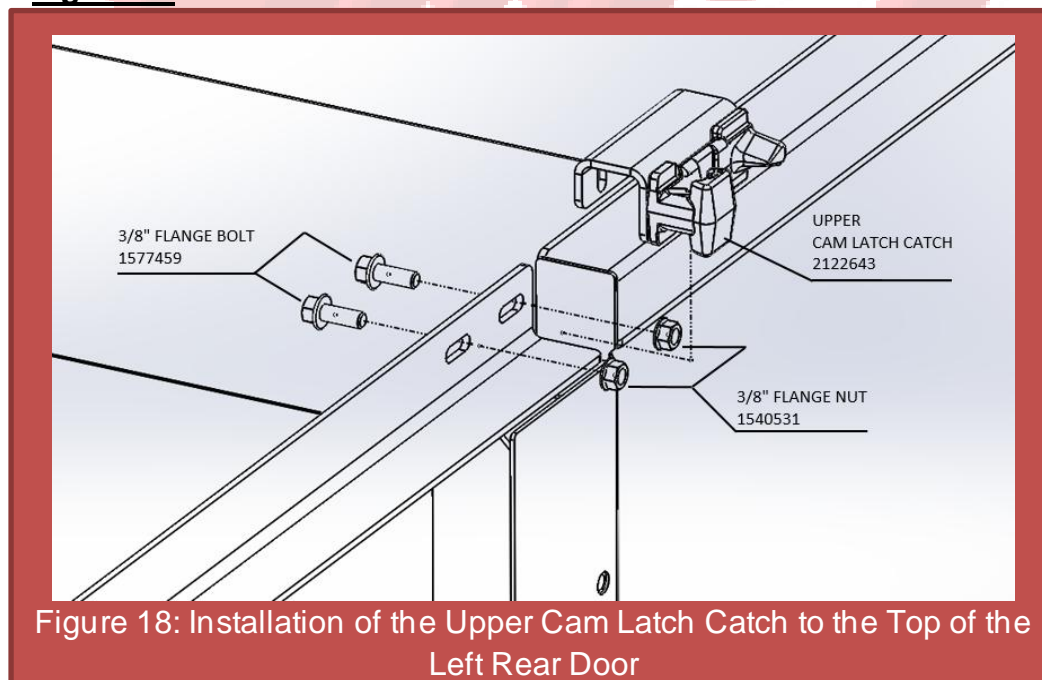


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2. Install the Left Lower Cam Latch Catch (2610196) and the Right Lower Cam Latch Catch (2595930) to the rear of the platform, below the Rear Doors. Tightly fasten each Cam Latch Catch using (2x) 3/8" X 1" Flange Bolts (1577459) and (2x) 3/8" Flange Nuts (1540531). Shown in **Figure 17**.



3. Install the Upper Cam Latch Catch to the top of the Left Rear Door. Refer to **Figure 18**.



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4. Install the Right Cam Latch and the Left Cam Latch to the back of the Right and Left Rear Doors. Refer to **Figure 18** and **Figure 19**.

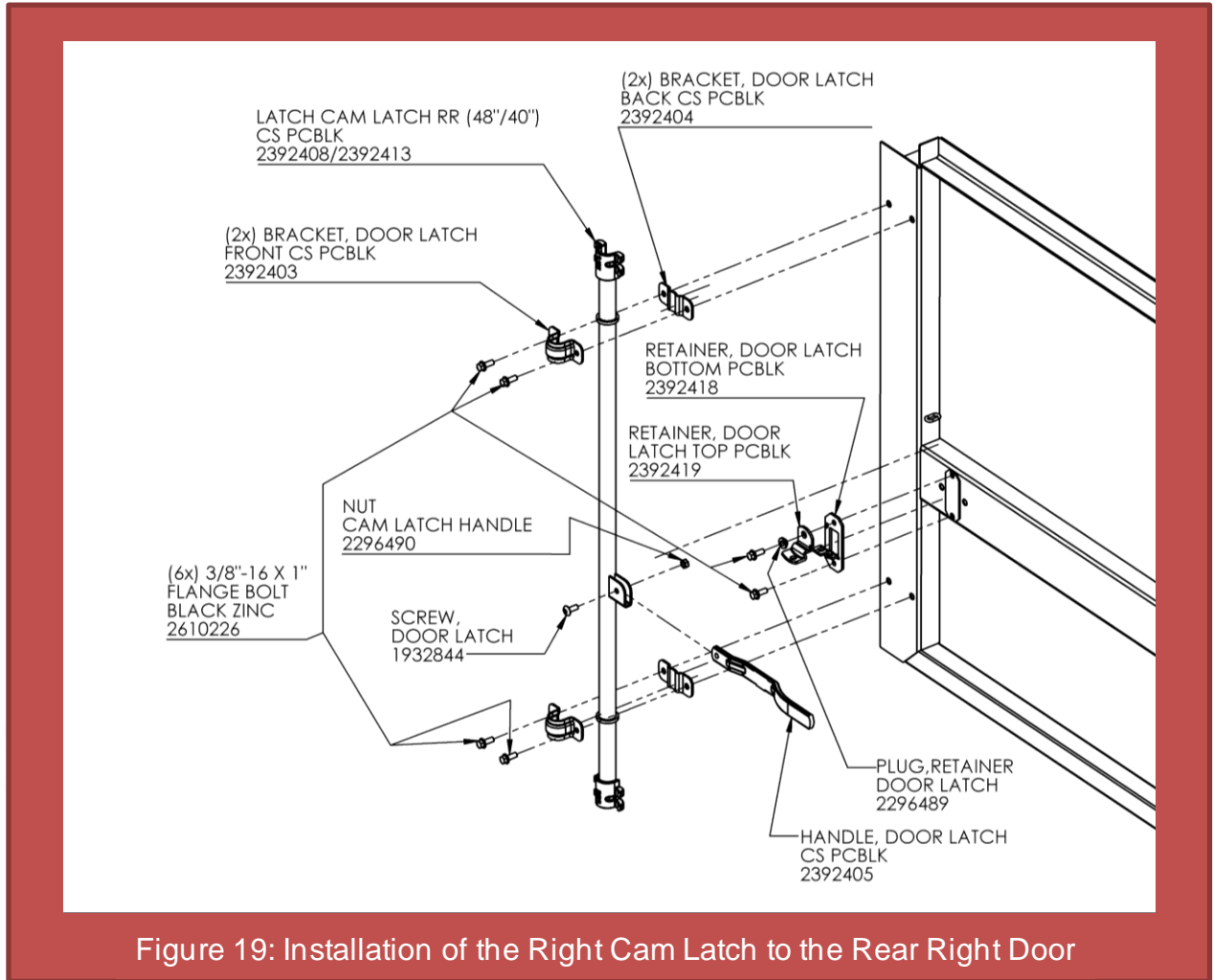
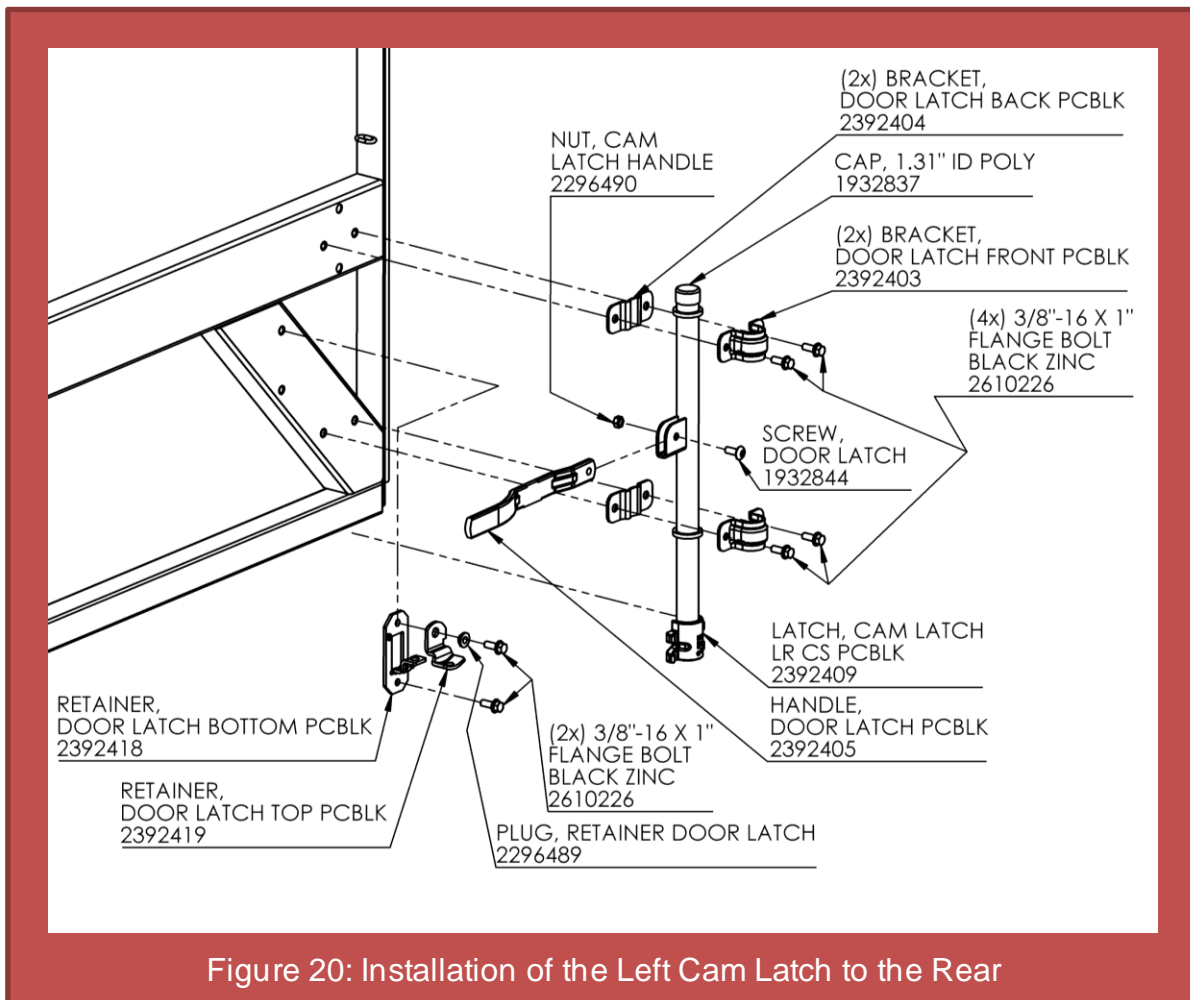


Figure 19: Installation of the Right Cam Latch to the Rear Right Door

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NOTE: If the Cam Latch Assemblies do not align with the Cam Latch Catches, on either the top or bottom, loosen the bolts on the Cam Latch Catches to shift the Cam Latch Catches in the desired direction. Retighten the bolts once the desired location is found. Refer to **Figure 17** and **Figure 18**.

NOTE: If the Cam Latch Assemblies still do not align with the Cam Latch Catches, on either the top or bottom, loosen the bolts on the lower bracket to shift the bracket in the desired direction. Retighten the bolts once the desired location is found.

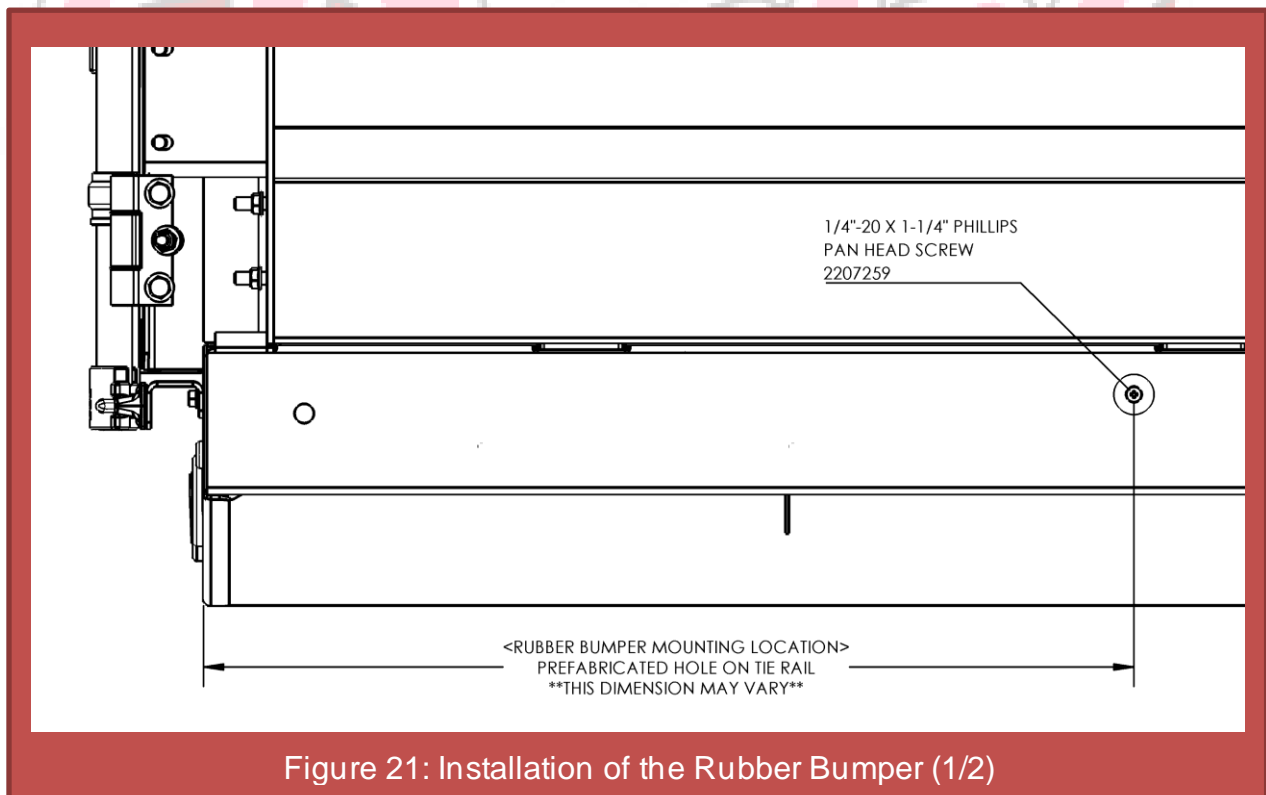
NOTE: If the Cam Latch Assemblies do not yet align with the Cam Latch Catches, on either the top or bottom, loosen each of the bolts on the hinges to shift the doors to the desired position. Retighten the bolts once the desired location is found.

NOTE: Refer to **Figure 2** for torque specs.

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5. Install the Rubber Bumpers (2092742) to the side of the Platform.
 - a. The Rubber Bumpers are used to stop the Cam Latches on the Rear Doors from hitting the sides of the body. To correctly position the horizontal mounting location of the Rubber Bumper, open the Rear Door up until the Cam Latch is touching the side of the body, then mark the location where the Cam Latch touches the body.
 - b. Next, drill a 5/16" hole in the side rail, at a height of 1.5" above the bottom of the side rail. Refer to **Figure 21** and **Figure 22**.
 - c. Then, mount the Rubber Bumper in the 5/16" hole with a 1/4-20 x 1-1/4" Pan HD Screw (2207259) and a 1/4-20 Flange Nut (1654467).
 - d. Repeat Steps a, b and c for both the left and right sides.

NOTE: The bumper might not make direct contact with the lower cam, but it may stop the door from making contact with the body, preventing damage to the powder coat finish.



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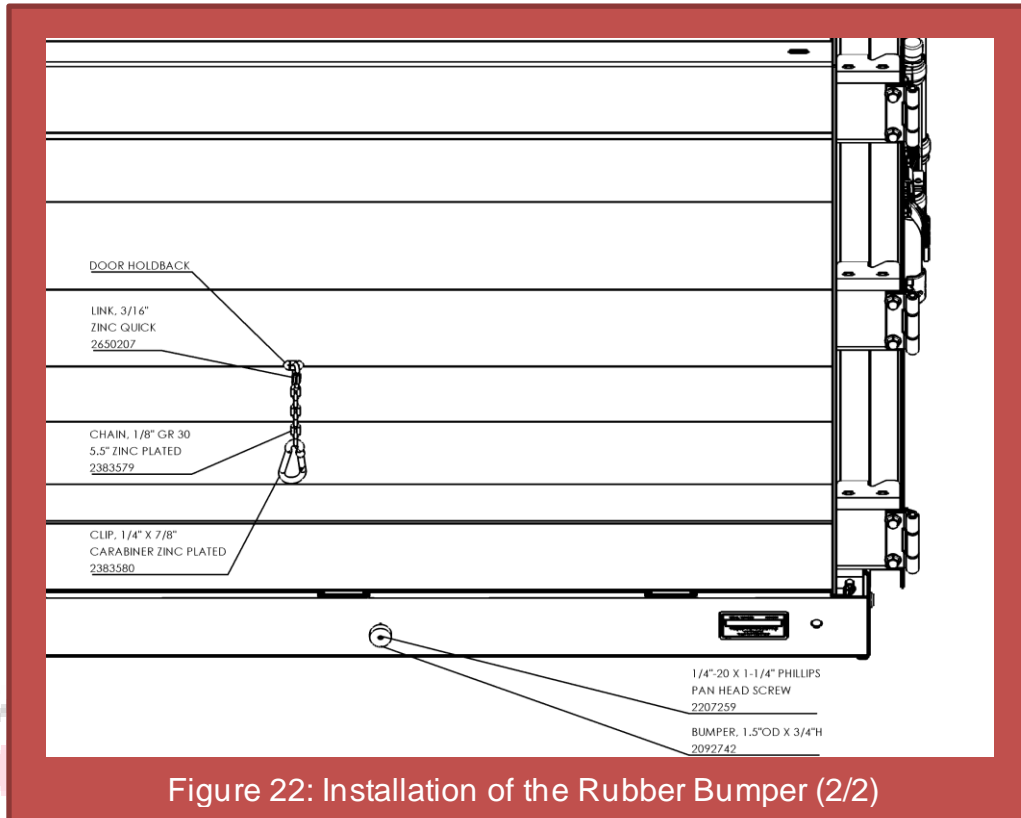


Figure 22: Installation of the Rubber Bumper (2/2)

Figure 23 shows the finished assembly of the 2-Piece Barn Doors with Cam Latch.

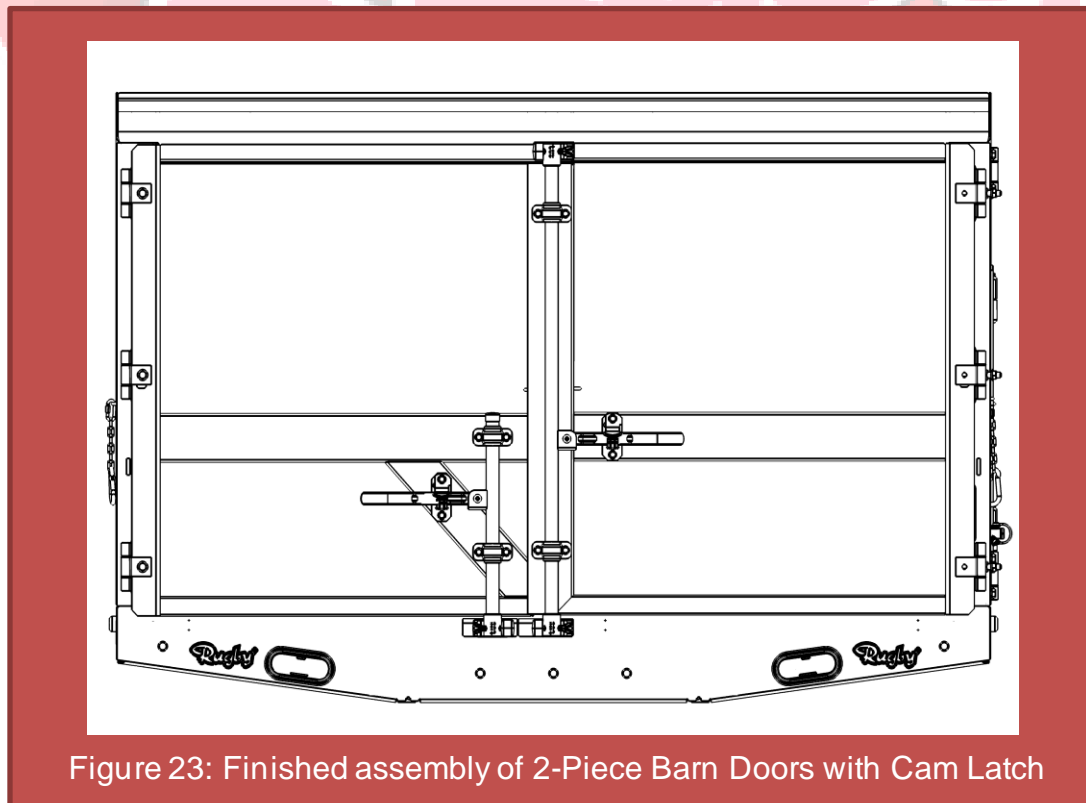


Figure 23: Finished assembly of 2-Piece Barn Doors with Cam Latch

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Propping the 2-Piece Barn Doors open

1. Open the Rear Door completely, so either Rear Door is adjacent to the respective side of the body.
2. Clip the carabiner to the chain link located on the door, as shown in **Figure 24.**

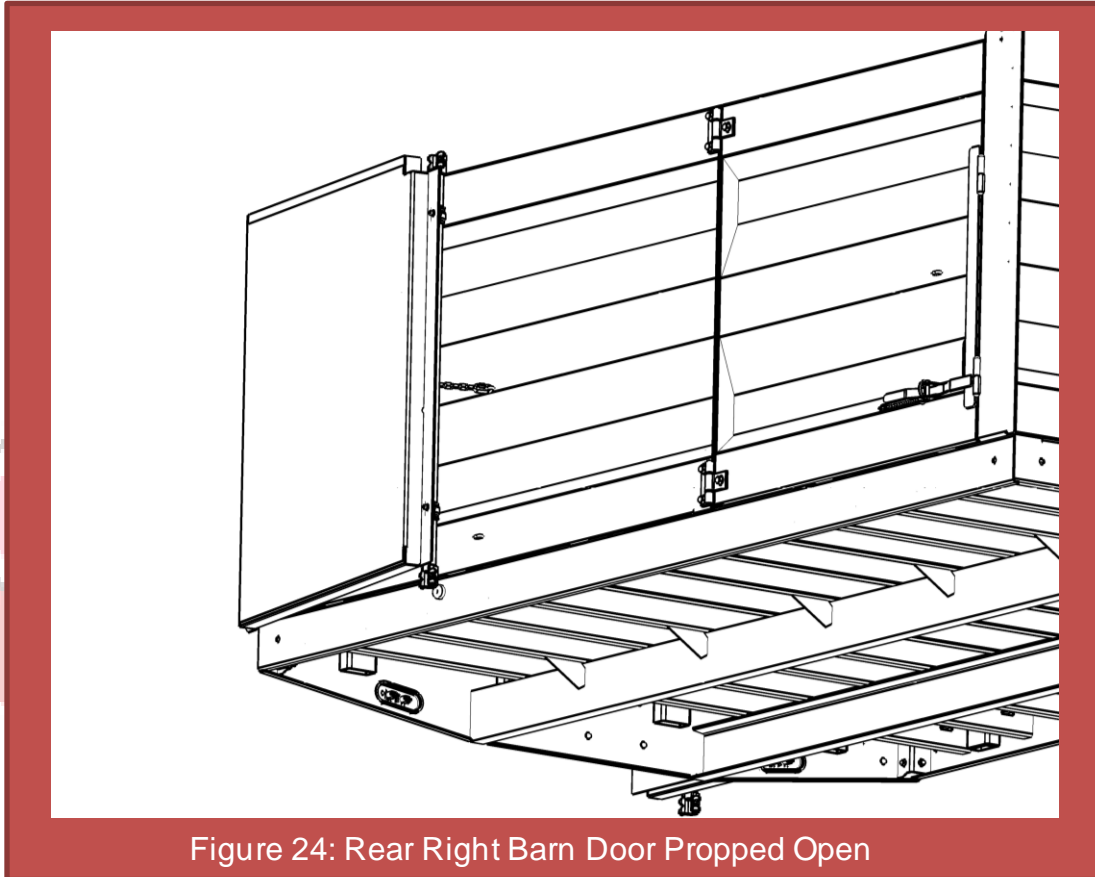


Figure 24: Rear Right Barn Door Propped Open

Door latch operation and Safety

3. Any latches that function on a camming or pinching action to keep the door closed can be under pressure when closed. This is by design so that the device being latched does not rattle in transit.
4. When opening, ensure that a two-handed operation is employed. One hand to remove the retaining mechanism and one hand to hold the lever arm on the latch mechanism.
5. Once the retaining mechanism is removed, slowly open the lever arm, relieving any pressure.
6. The reverse procedure is to be used to lock the device.

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Chipper Cover & Ladder Rack

The Landscaper can be ordered with optional Chipper Covers.

The quantity and size of the covers will vary, depending on the length of the Landscaper. A 12' body is shown. Refer to **Figure 25** and **Figure 26**.

1. Bolt the pairs of covers to each other, to form a pair that will span the body width. Bolt the covers with 3/8" X 1" Flange Bolts (1511135) and 3/8" Flange Nuts (1540531).
2. Place the long cover on the body. This cover will go to the front of the body. Bolt the front panel to the cover with 3/8" X 1" Flange Bolts and Nuts. Reinforce the joints with a Center Brace (1660573), as shown in **Figure 26**.
3. Place the remaining sections on the body, and bolt to each other with 3/8" X 1" Flange Bolts and Flange Nuts. Reinforce the joints with Center Brace (1660573), as shown in **Figure 26**.
4. Line up the cover so it is symmetric side to side, and pushed all the way to the front. Install a strip of butyl tape (1653654) between the bottom of the cover and the top of the tarp rail. Use the provided 1/4" X 3/4" thread cutting screws to attach the front panel to the body front panel, and the bottom of the cover to the top of the tarp rail.
5. Attach the ladder rack to the cover using 1/4" X 3/4" thread cutting screws as shown in **Figure 25**.

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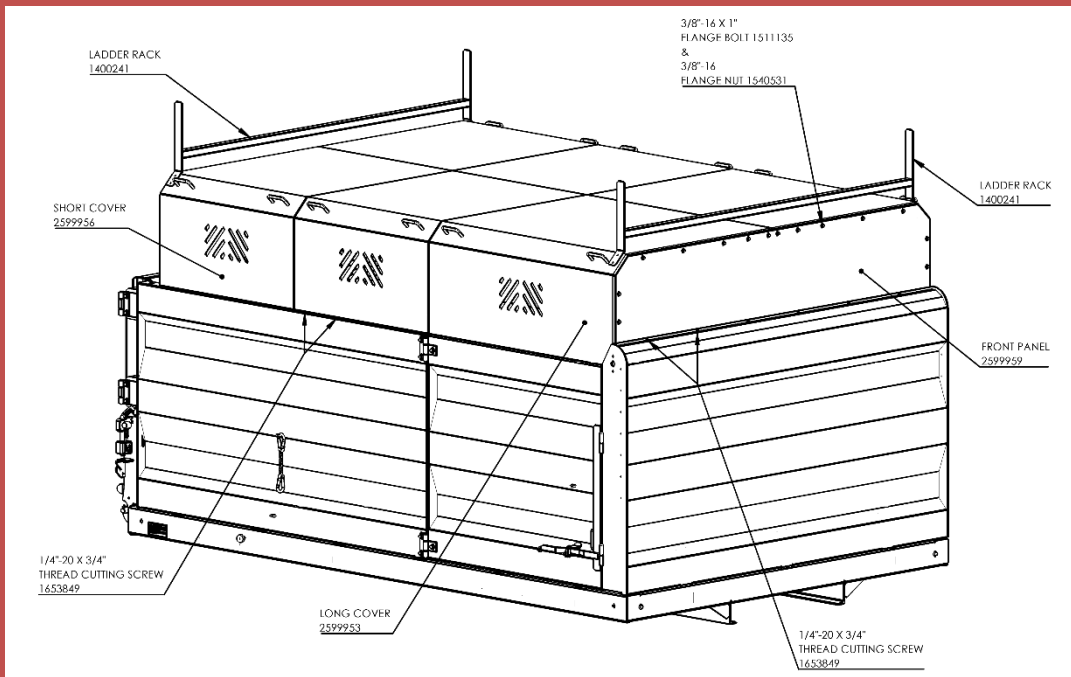


Figure 25: Installation of Chipper Cover

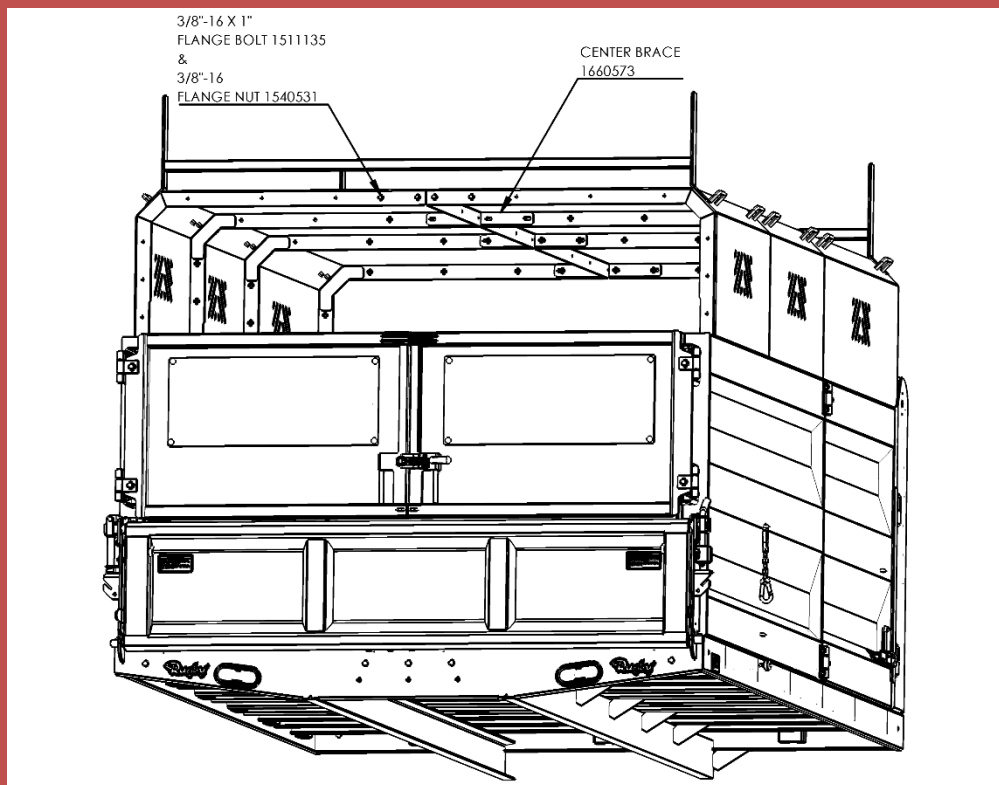


Figure 26: Installation of Chipper Cover

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Retractable 2-Step Ladder

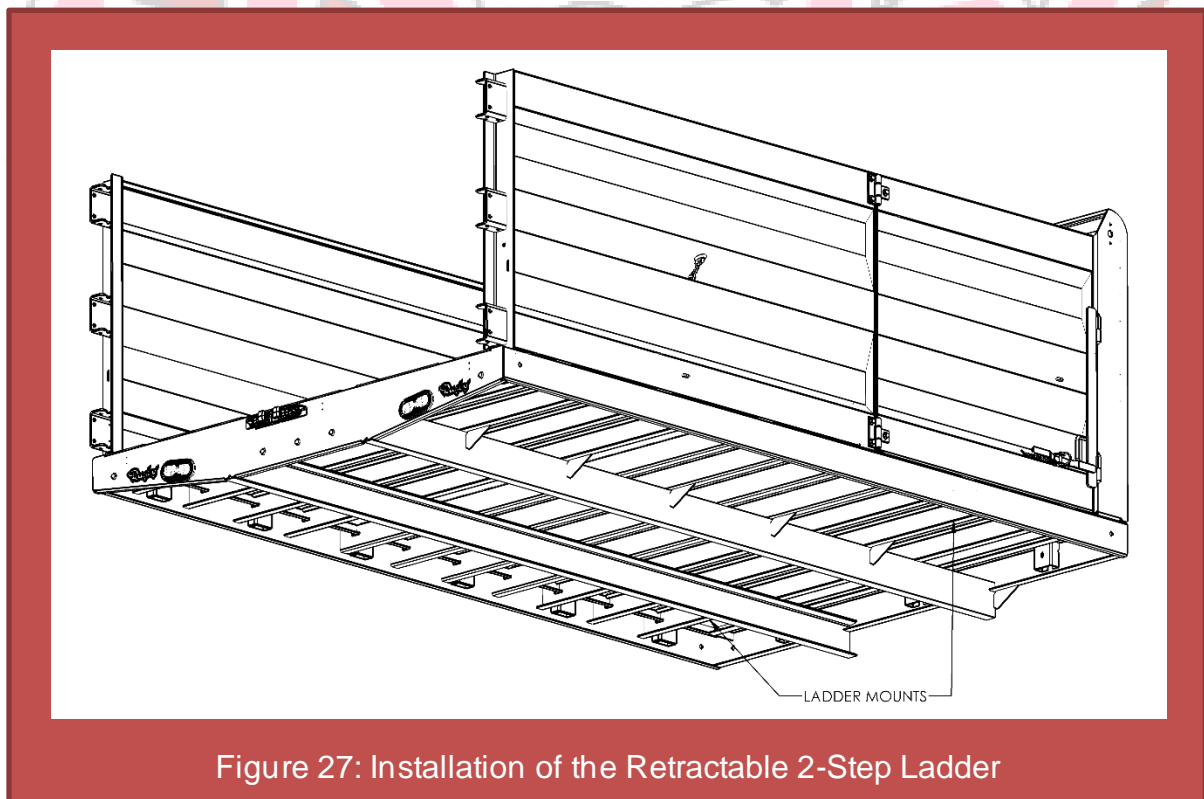
The Landscaper can be ordered with an optional Retractable 2-Step Ladder attachment.

1. Refer to **Figure 27** for an ideal location of the Step Ladder.

NOTE: The locations of the holes should allow the ladder to be used to access the right side door and not cause the ladder to cover the “Rugby” Logo Decal on the front right corner of the Platform.



Do **NOT** drill into the cross-sills of the Platform’s understructure as this may weaken the structural integrity of the Platform, which may lead to injury or death.



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3-Piece Solid Door Cover Plates

The Landscaper can be ordered with an optional 3-Piece Solid Door Cover Plates. This converts a vented 3-Piece rear door into a solid one.

1. Refer to **Figure 28** for the location of the Solid Cover Plates.
2. Mount the Solid Cover Plate to the 3-piece Rear Door with four (4x) 3/8" X 1" Black Zinc Carriage Bolt (2610227) and fasten with four (4x) 3/8" Black Zinc Flange Nut (2610229).
3. Repeat Step 2 for both the left and right rear doors.

NOTE: The square shaped holes in the 3-piece rear door should easily allow short neck carriage bolts to mount the Solid Cover Plate.

TIP: This task will be easier to complete with 2 people.

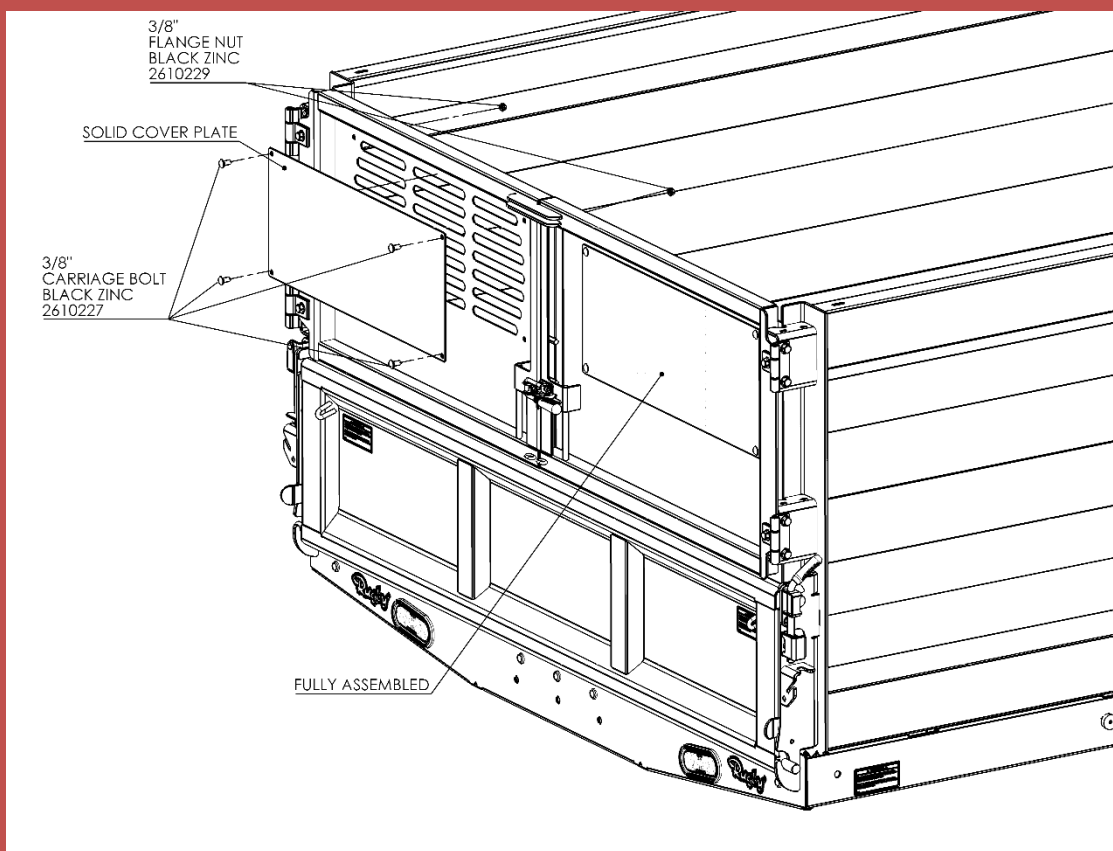


Figure 28: Installation of the 3-Piece Solid Door Cover Plates

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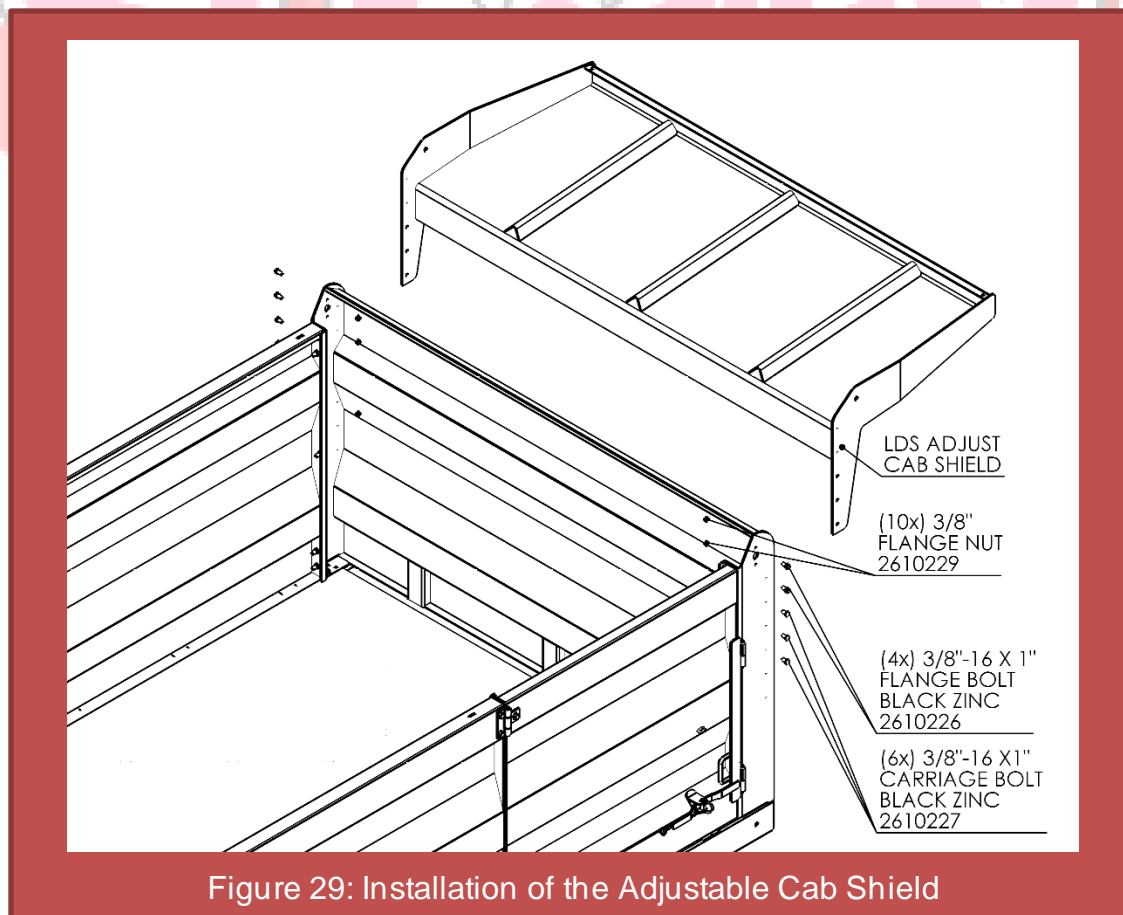
Adjustable Cab Shield

The Landscaper can be ordered with an optional Adjustable Cab Shield. This Cab Shield can be added to both the 40" and 48" versions of the Landscaper Sides.

1. Locate and mark the mounting points for both the bulkhead and the cab shield at the desired height for the cab shield. Refer to **Figure 29**.
2. Next, drill 3/8" holes into the bulkhead and the cab shield at the marked pilot hole locations. Hint: Top two holes need 3/8" Flange Bolts.
3. Mount the Cab Shield to the bulkhead with 3/8" X 1" Black Zinc Carriage Bolt (2610227) and fasten with 3/8" Black Zinc Flange Nut (2610229).
4. Repeat Steps 1, 2, and 3 for both the left and right sides.

NOTE: There are pilot holes prefabricated into both the bulkhead and the cab shield, use these for marking locations. The square shaped holes on the side of the Cab Shield should easily allow short neck carriage bolts to mount it to the bulkhead. For newly drilled holes, use 3/8" X 1" Flange Bolts (2610226).

TIP: This task will be easier to complete with at least 2 people.



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Maintenance

Grease Fittings

Grease the fittings found on the side door latch hinges periodically. This should be done at least every time the truck is greased, and whenever the hinges appear to be lacking grease.

Lighting

Inspect the lighting periodically for proper operation. Replace or repair any damaged wiring, broken lenses, broken bulbs, or burnt-out bulbs. Proper lighting is critical to the safe operation of the vehicle.

Decals

Decals must be present and readable on the body. If any decals are missing or damaged, they must be replaced. To obtain replacement decals, contact your "Rugby" dealer. Refer to **Figure 14** and **Figure 15** for decal numbers and locations.



Missing or damaged decals can lead to accidents that may cause serious injuries or death.