



MODEL GC24t-1 GRAIN CART ASSEMBLY

PATENTED SINGLE AUGER
GRAIN CARTS

GC24t-1



READ MANUAL BEFORE BEGINNING ASSEMBLY

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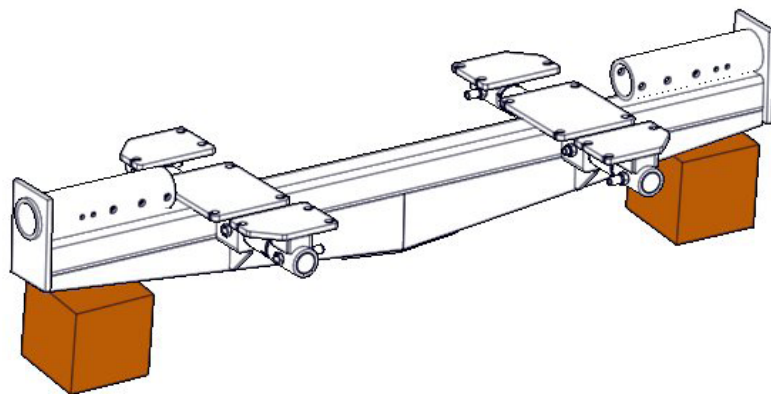


(Rev. 5.16.13)

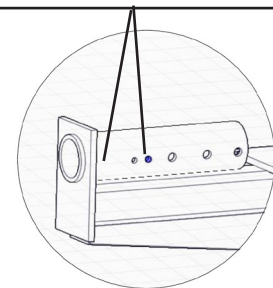
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STEP - 1

Through this assembly if the M10 x 25MM serrated flange hex bolts are not long enough in certain situations use the M10 x 35MM serrated flange hex bolts.

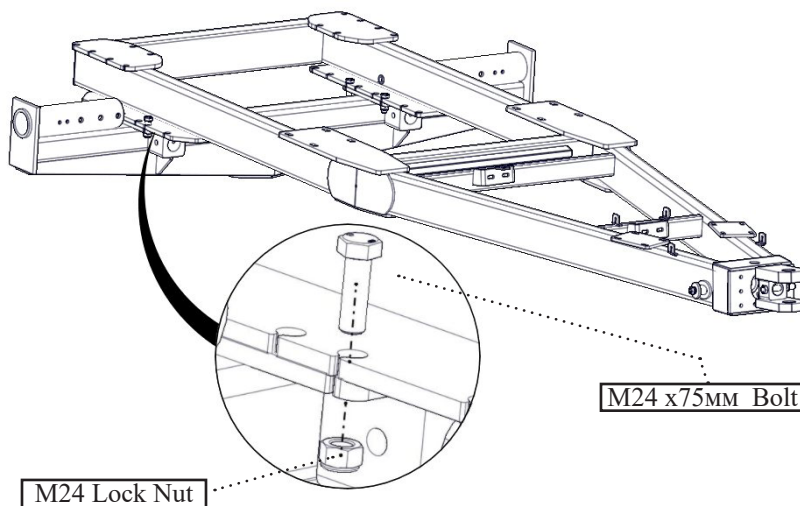


Tack Weld or Blue Sticker



For stability set the axle weldment up on blocks using an overhead hoist and chain. The blue sticker or tack welds on the axle should face the front. **For the scale option go to steps 3 & 4 for Axle & Frame installation instructions go to step 2.**

STEP - 2

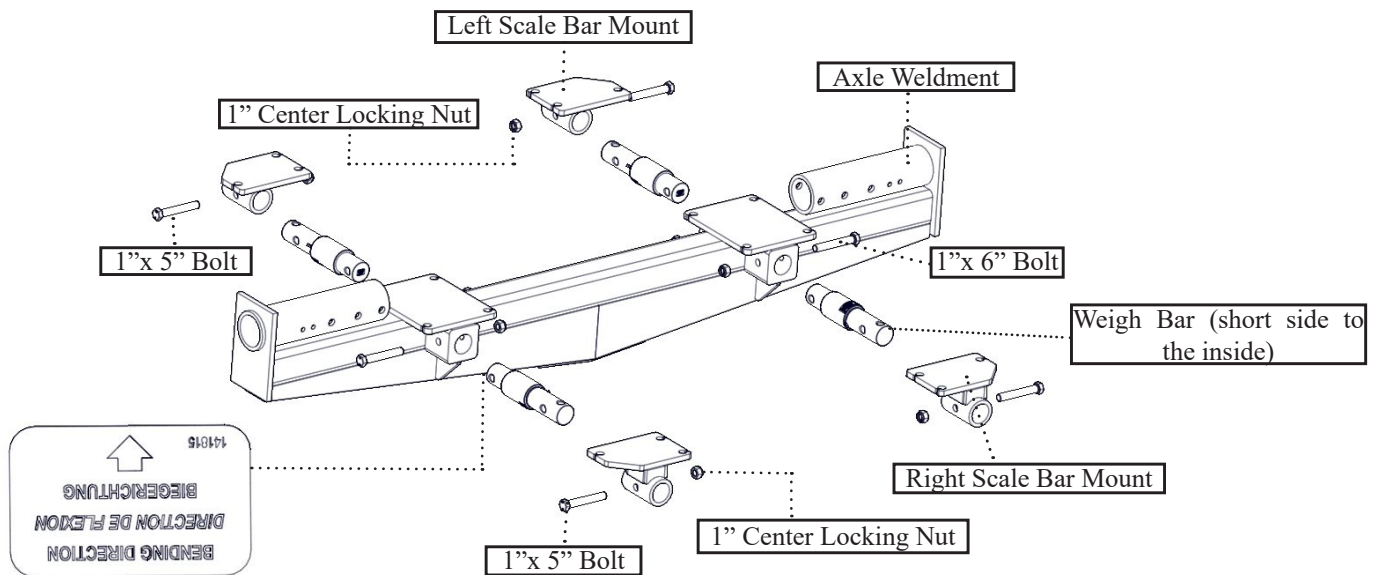


Attach the main frame. Set the rear end onto the axle and the front end on another block. Use (8) M24 x 75MM and (8) M24 nylon locking hex nuts to fasten main frame to the axle.

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STEP - 3

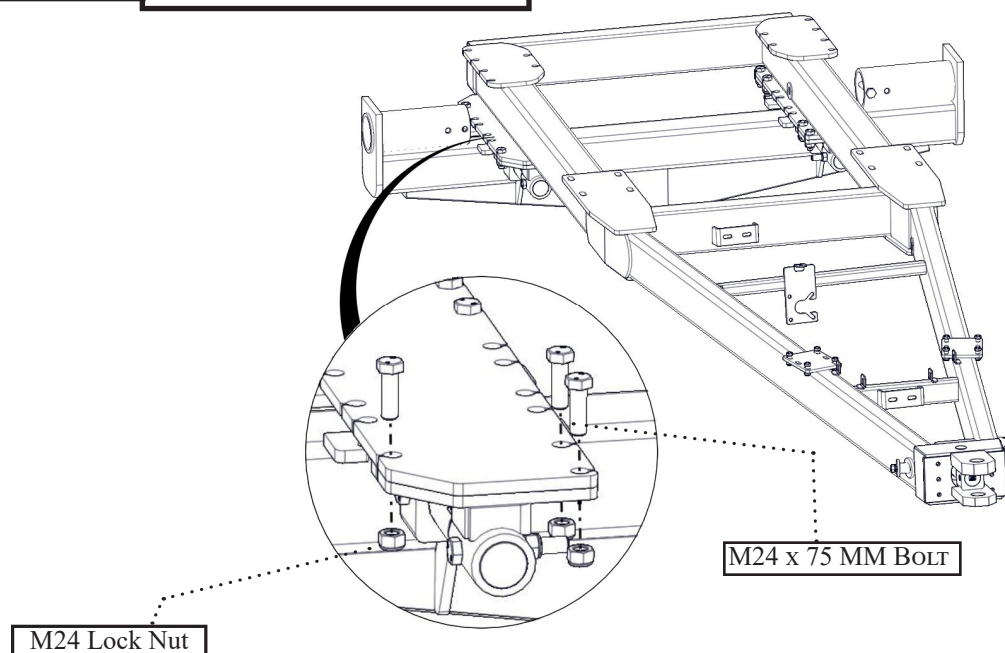
-Scale Option-



Set the axle weldment up on blocks. Insert four digistar weigh bars. Use 1" x 6" bolts to attach weigh bars to axle weldment. **Make sure that the arrows on all of the weigh bars are pointing up.** Attach the scale bar mounts to the weigh bars using 1" x 5" bolts. Be sure to use correct scale bar mounts in correct positions. Use (8) 1" center locking nuts on the bolts.

STEP - 4

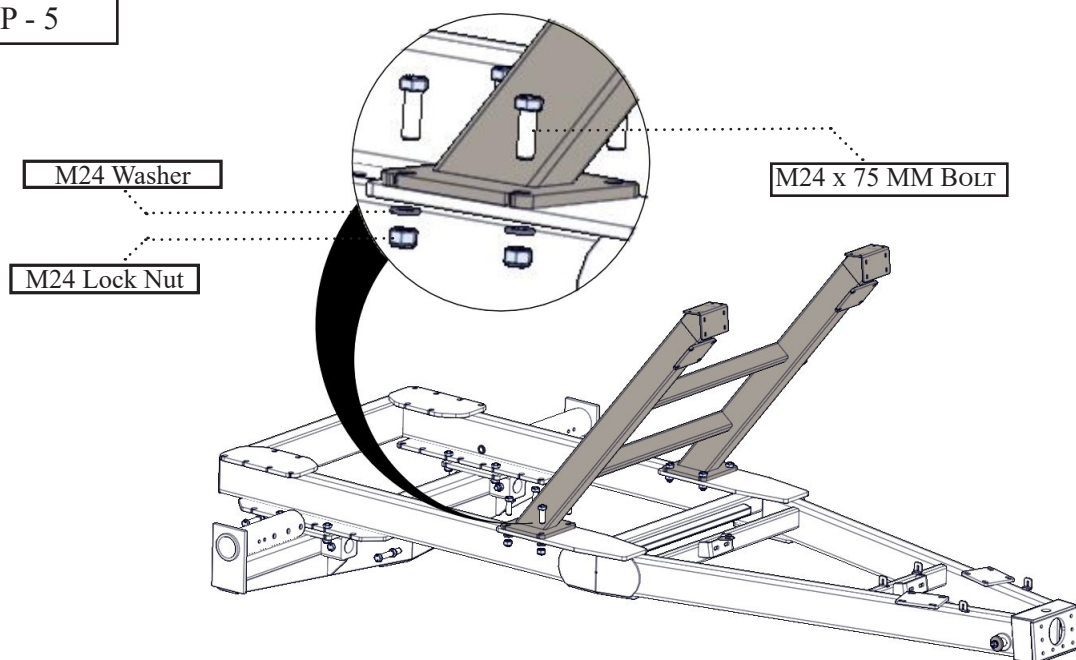
-Scale Option-



Set the main frame onto the scale axle using an overhead hoist. Line up the holes and bolt together using (12) M24 x 75 MM hex cap screw bolts and (12) M24 nylon locking hex nuts. Make sure scale wires are not in a position where they will be cut or smashed.

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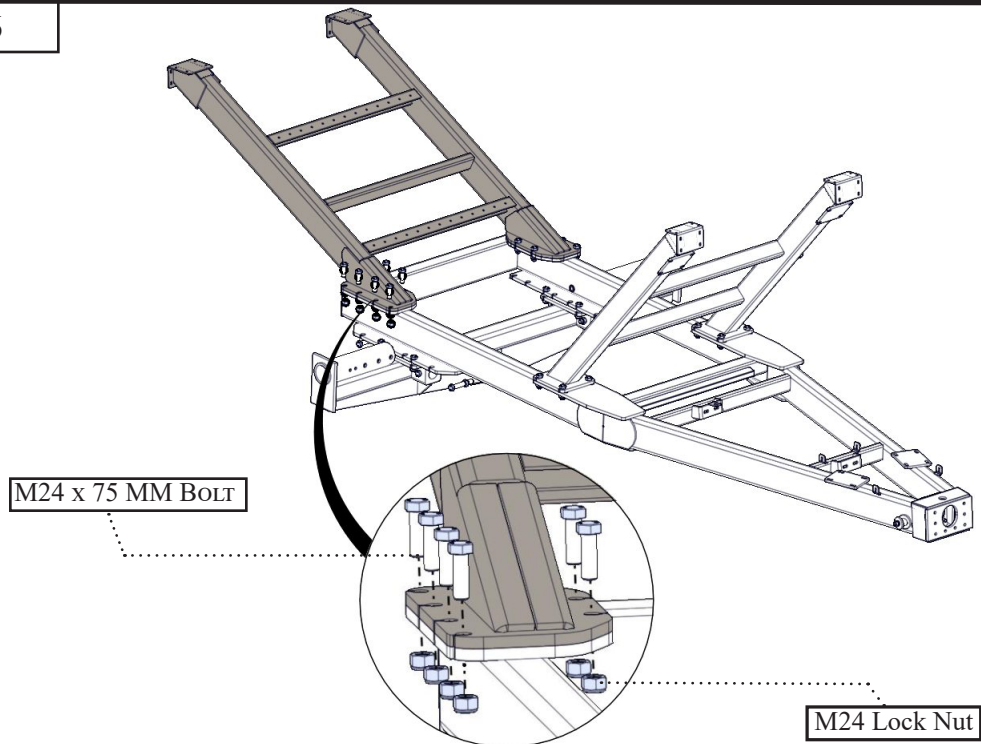
STEP - 5



Place the front leg onto the main frame using an overhead hoist. Use a drift pin to help line up the holes. Attach the front leg with (8) M24 x 75MM hex head bolts, M24 washers, and M24 nylon locking nuts.

Note: Do not completely tighten. The legs will need to be able to slide for adjustment in a later step.

STEP - 6



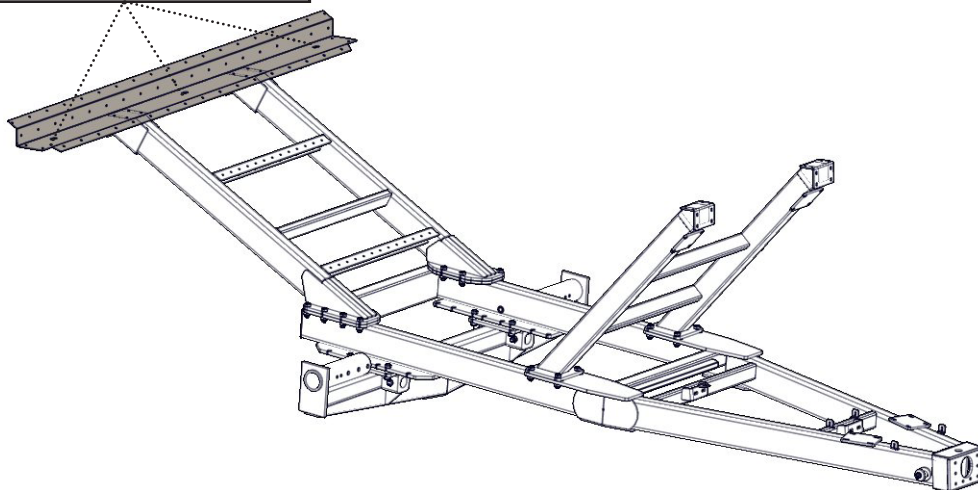
Place the rear leg onto the main frame using an overhead hoist. Use a drift pin to help line up the holes. Attach the rear leg with (12) M24 x 75MM hex head bolts and (12) M24 nylon locking nuts.

Square up plates with frame then tighten.

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STEP - 7

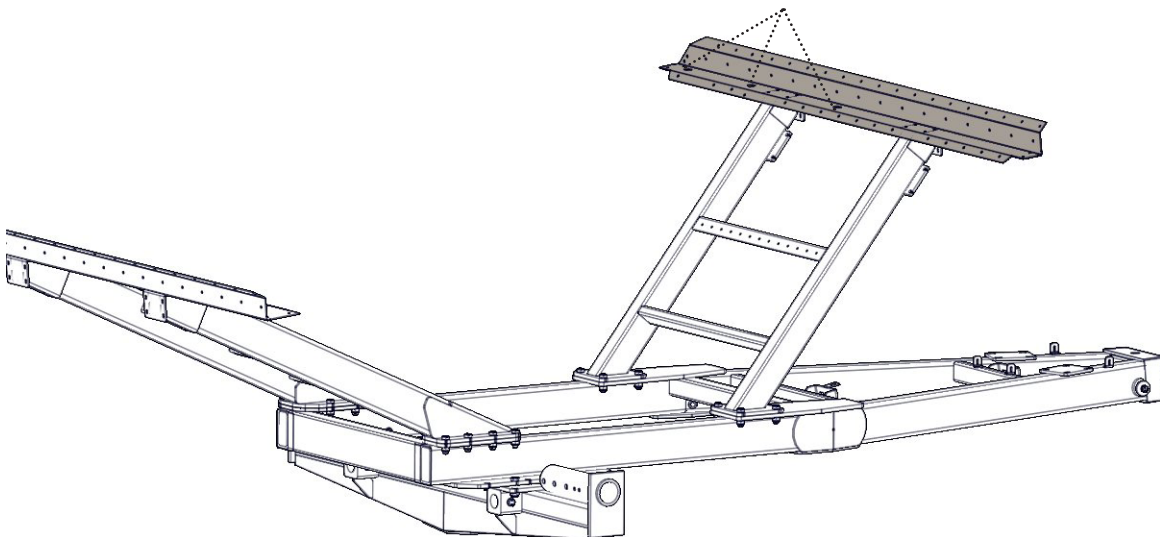
3 holes spaced equally



Attach the rear rail. Use (8) M10 serrated flange bolts to attach the rear rail to the rear leg.

STEP - 8

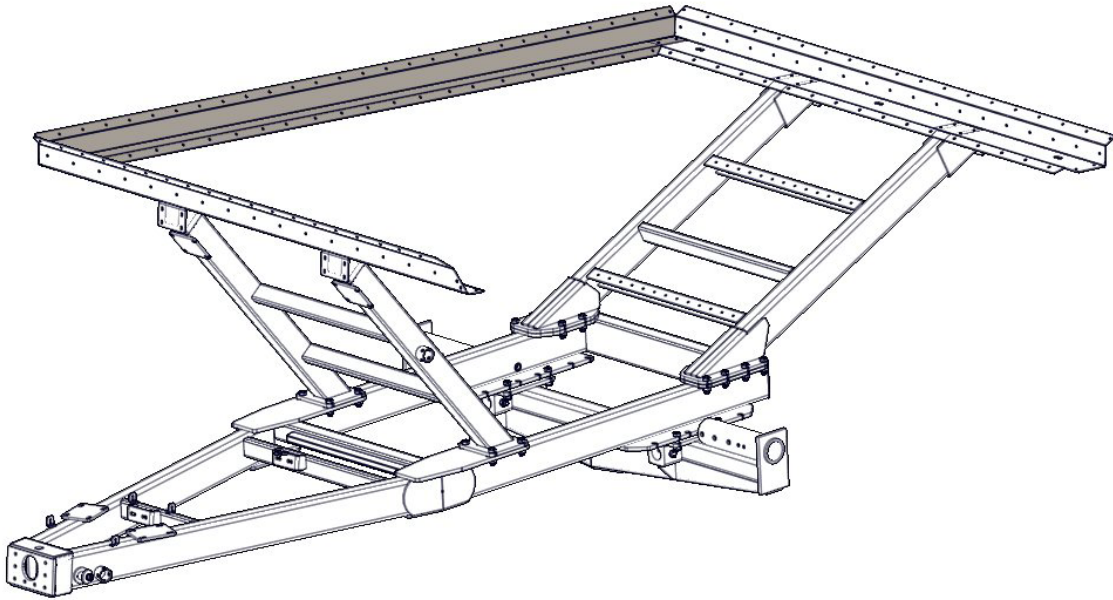
3 holes located in front left corner



Attach the front rail. Use (8) M10 serrated flange bolts to attach the front rail to the front leg.

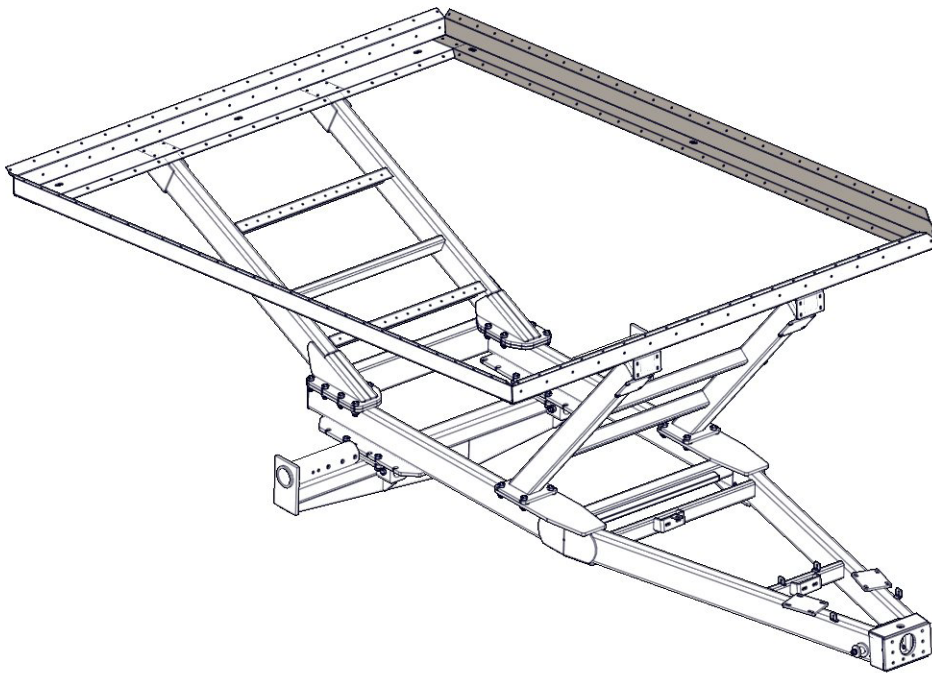
GC24T-1 GRAIN CART ASSEMBLY

STEP - 9



Attach the opposite auger side rail (OAS). Use (4) M10 serrated flange nuts to attach the OAS to the front and rear rail.

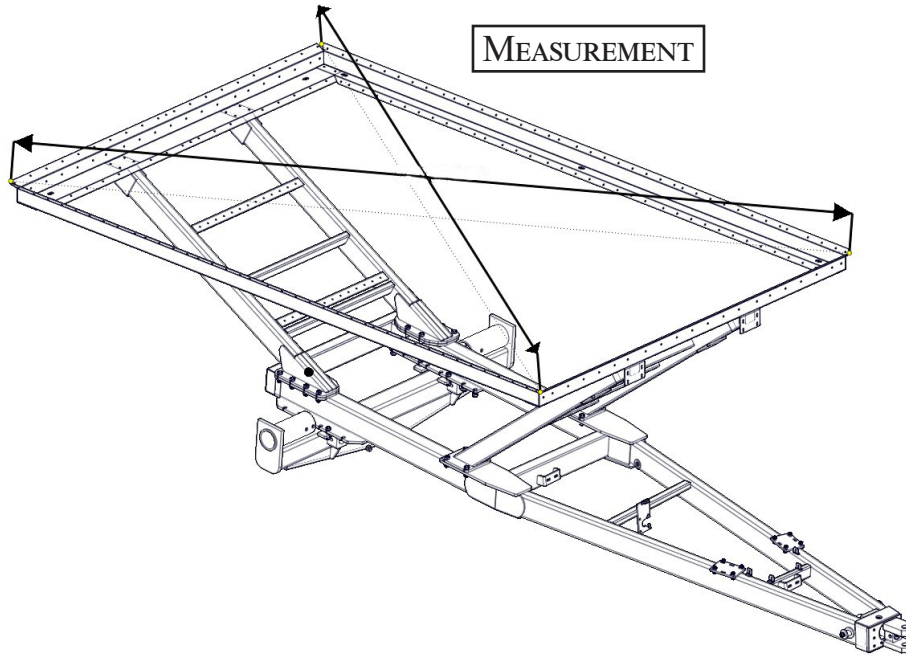
STEP - 10



Attach the Auger Side Rail (AS). Use (4) M10 Serrated Flange Nuts to attach the AS rail to the front and rear rails.

GC24T-1 GRAIN CART ASSEMBLY

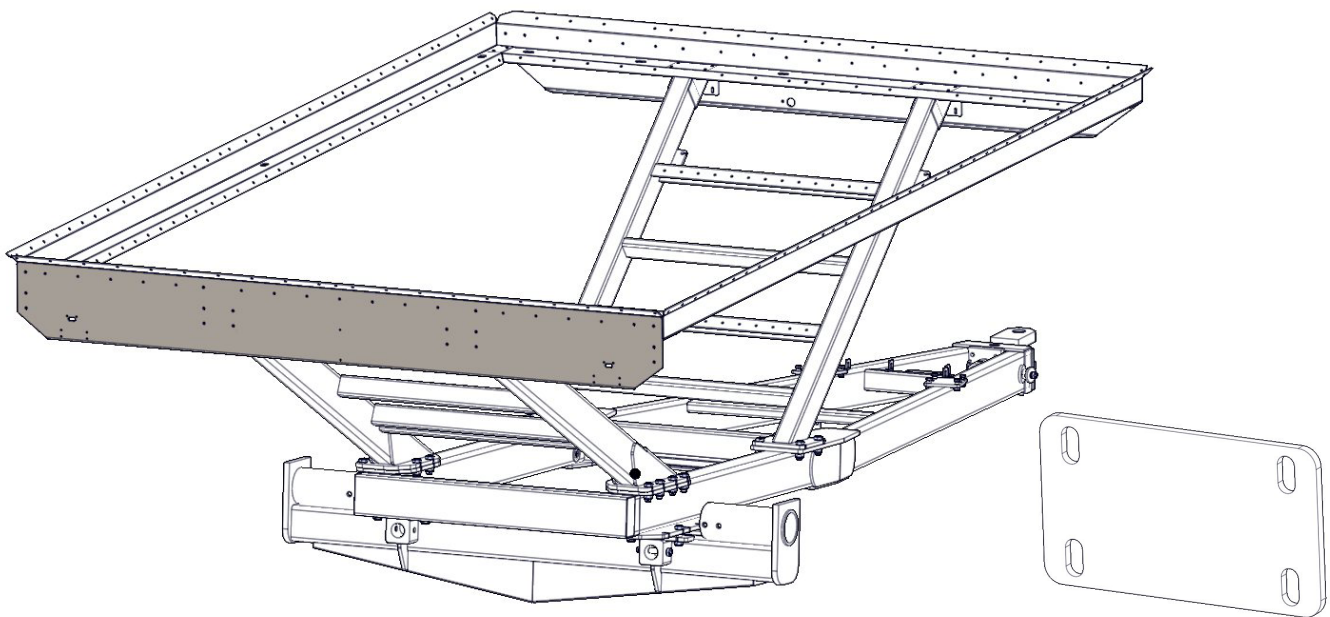
STEP - 11



This is the most IMPORTANT step.

Measure from corner to corner on the rails. Reposition the front leg to get the measurements to be within 1/8" - 1/4" (3mm-6mm) of each other. **Once completed, tighten all bolts to ensure that the structure remains square. (Do not tighten bolts on the front leg.)**

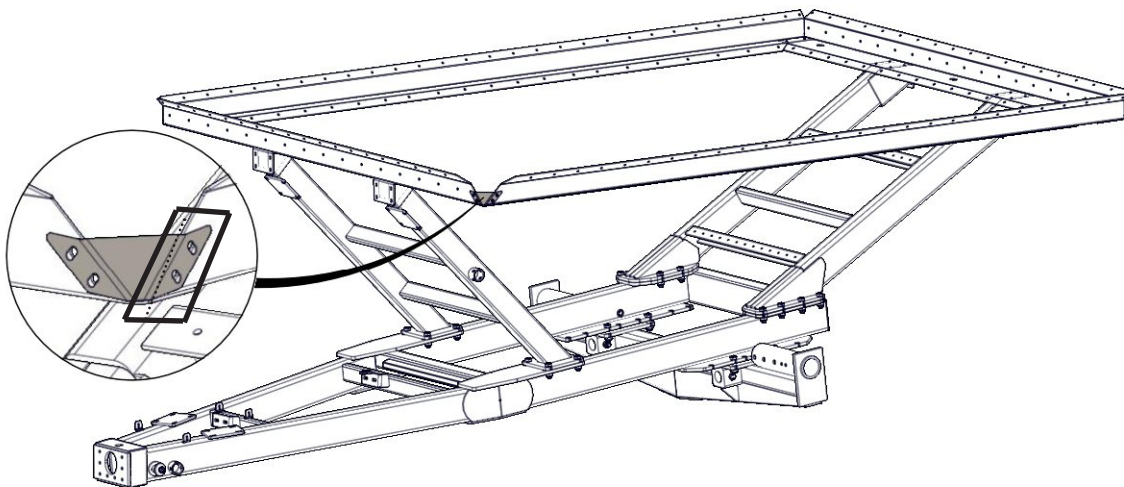
STEP - 12



Attach the rear rail cross brace. Use (27) M10 serrated flange hex head bolts and (27) M10 serrated hex flange nuts. If the rear rail cross brace does not fit tight against the rear leg, attach the rear rail cross brace shim.

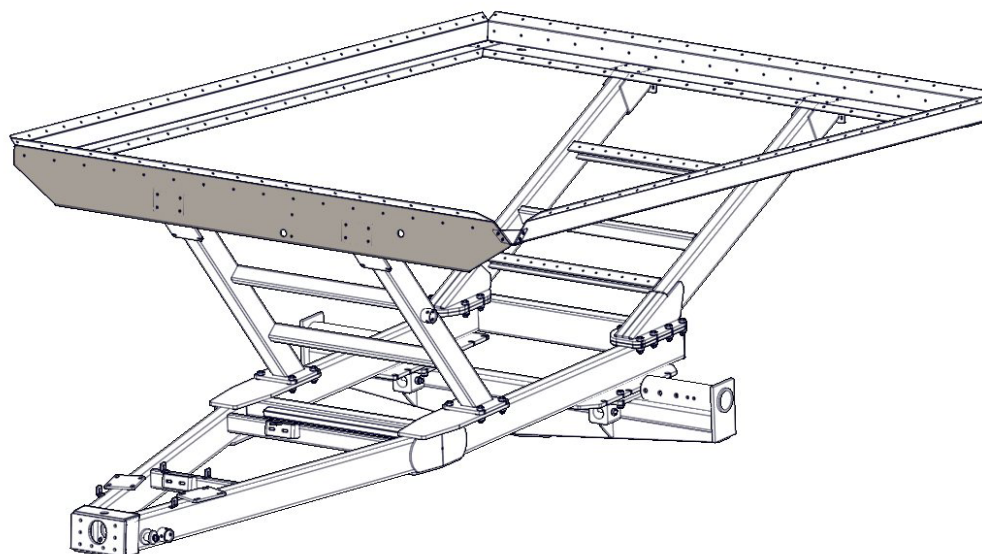
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STEP - 13



Attach the rail corner auger piece. Use (2) M10 serrated flange hex head bolts and (2) M10 serrated hex flange nuts to attach the rail auger corner piece to the front rail and AS rail. The nuts go on the inside.

STEP -14



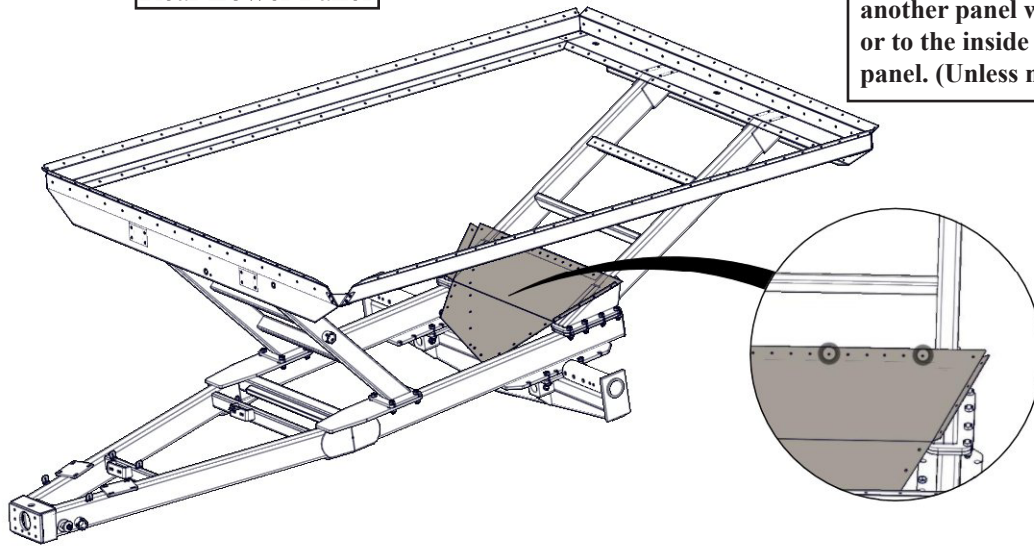
Attach the front rail cross brace. Use (26) M10 serrated flange hex head bolts and (26) M10 serrated hex flange nuts.

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STEP - 15

Rear Lower Panel

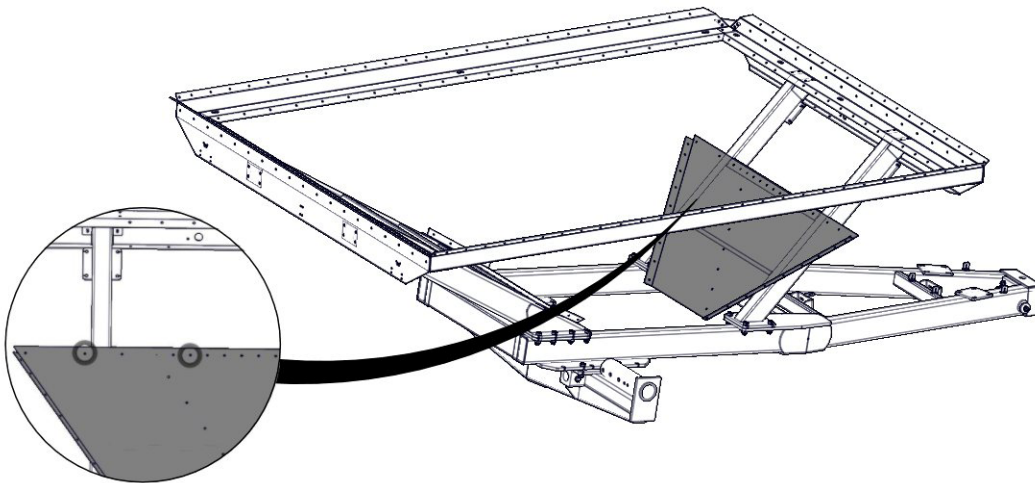
From this point on, every panel that is placed above another panel will be on top or to the inside of the other panel. (Unless noted)



Attach the rear lower panel. Use (2) temporary M10 serrated flange bolts to hold the rear bottom panel in place. Insert bolts into the two holes that are circled.

STEP - 16

Front Lower Panel

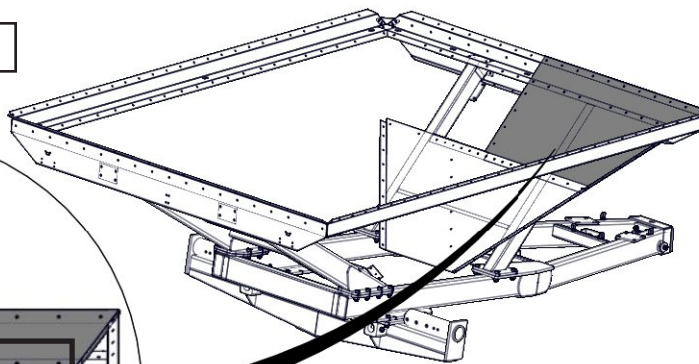
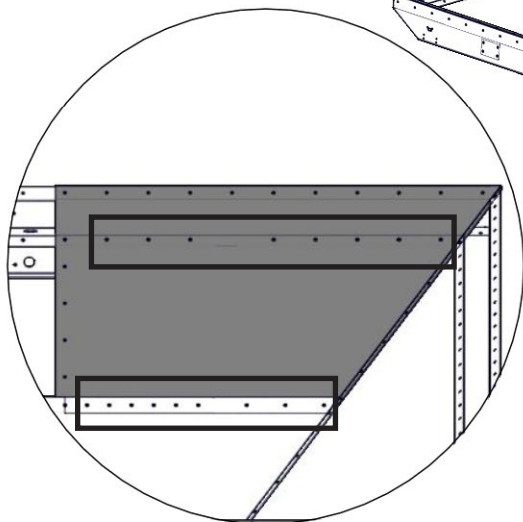


Attach the front lower panel. Use (2) temporary M10 serrated flange bolts to hold the front lower panel in place. Place bolts into the two holes that are circled.

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STEP -17

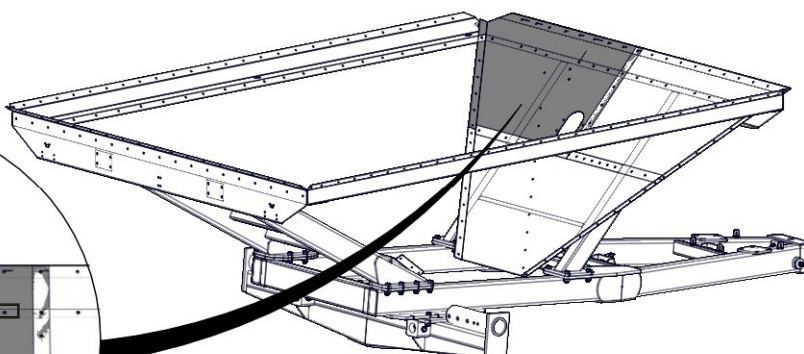
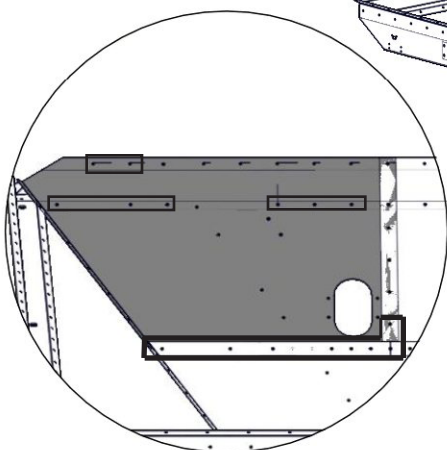
Front OAS Middle Panel



Attach the front OAS middle panel. Remove the two temporary bolts. Use (17) M10 x 25MM serrated hex head bolts and (17) M10 serrated hex flange nuts to attach the panel to the frame.

STEP - 18

Front AS Middle Panel

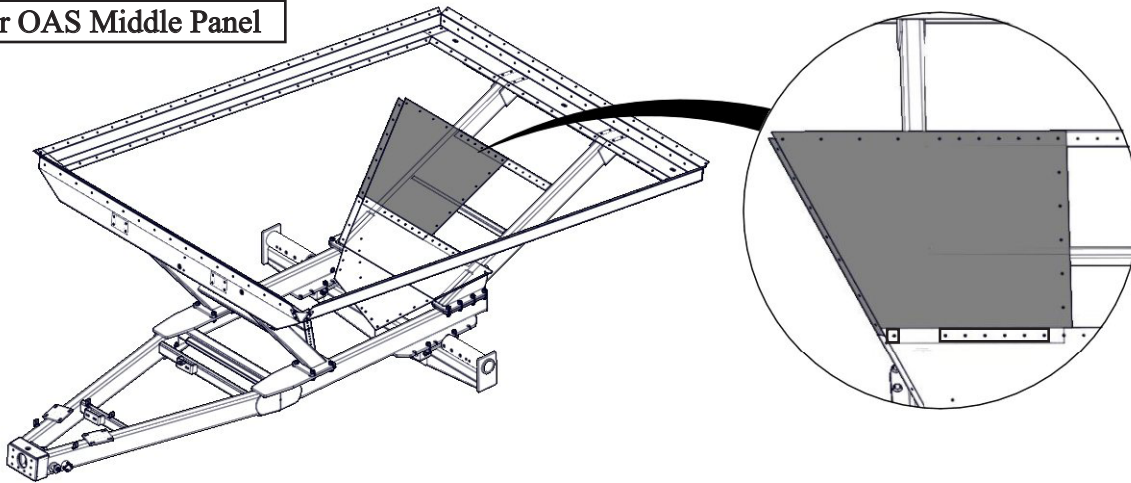


The Front AS Middle Panel will lay on top of the Front OAS Middle Panel

Attach the front AS middle panel. Use (16) M10 x 25MM serrated hex head bolts and (16) M10 serrated hex flange nuts to attach the panel to the frame.

STEP - 19

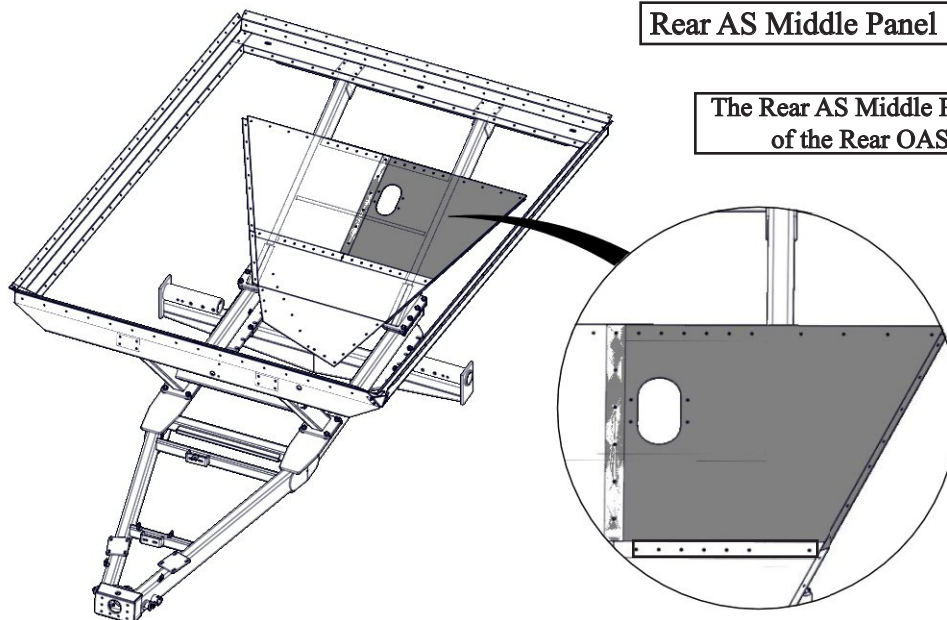
Rear OAS Middle Panel



Attach the rear OAS lower middle panel. Remove the two temporary bolts. Use (7) M10 x 25MM serrated hex head bolts and (7) M10 serrated hex flange nuts to attach the rear OAS middle panel to the frame.

STEP - 20

Rear AS Middle Panel



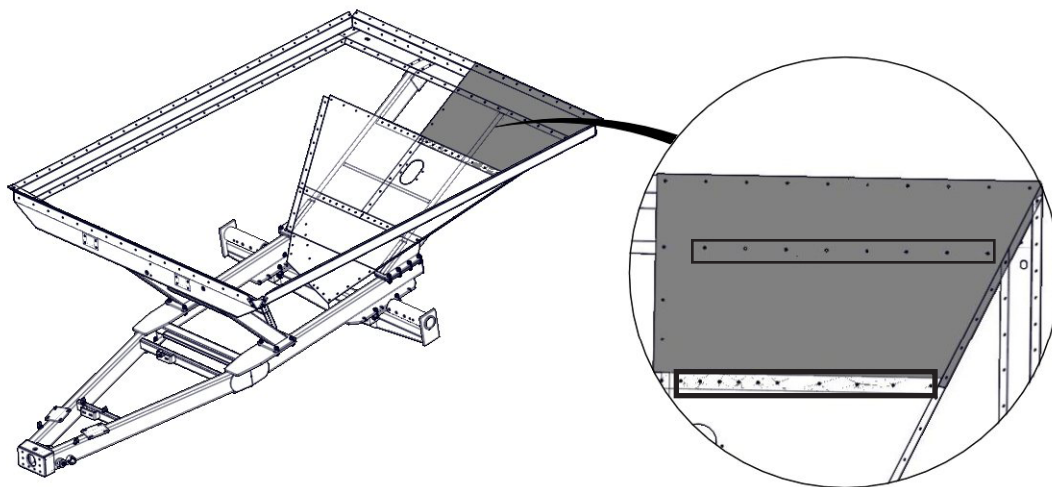
The Rear AS Middle Panel will lay on top of the Rear OAS Middle Panel

Attach the rear AS lower middle panel. Use (7) M10 x 25 MM serrated hex head bolts and (7) M10 serrated hex flange nuts to attach the rear AS middle panel to the frame.

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STEP - 21

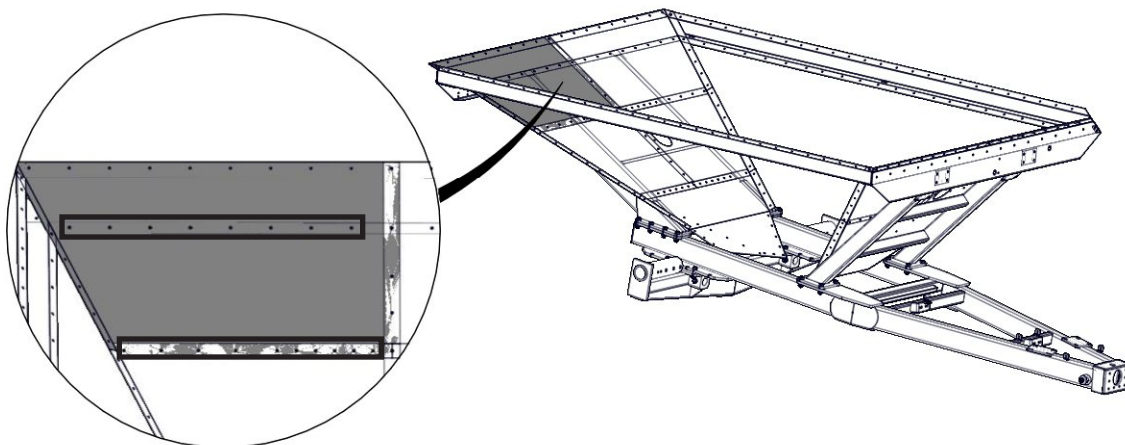
Rear AS Upper Middle Panel



Attach the rear AS upper middle panel. Use (18) M10 x 25MM serrated hex head bolts and (18) M10 serrated hex flange nuts to attach the rear AS upper middle panel to the shell assembly.

STEP - 22

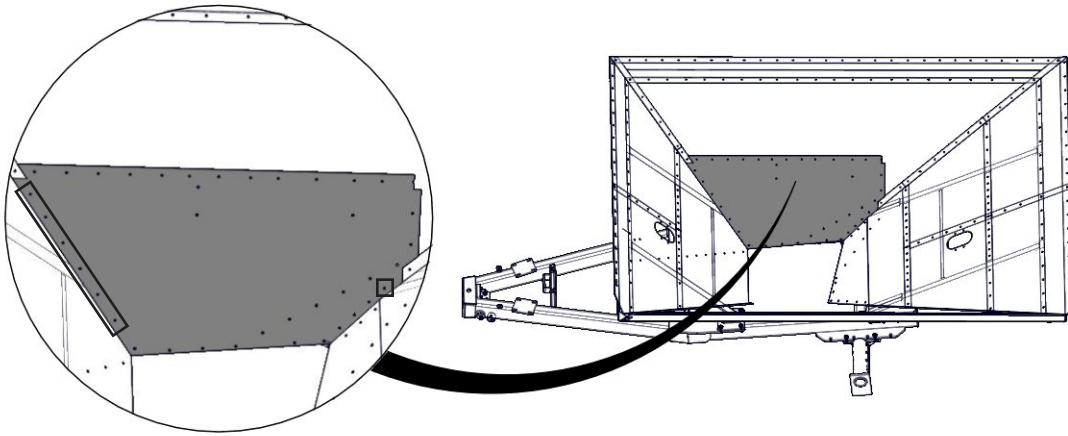
Rear OAS Upper Middle Panel



Attach the rear OAS upper middle panel. Use (16) M10 x 25MM serrated hex head bolts and (16) M10 serrated hex flange nuts to attach the rear OAS upper middle panel to the shell assembly.

STEP - 23

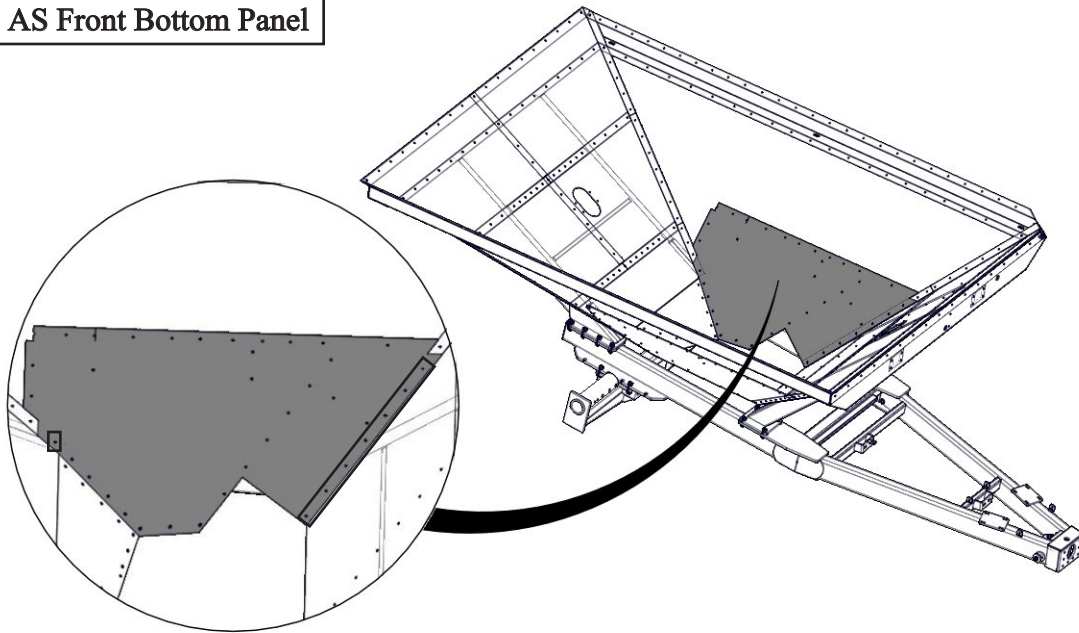
OAS Front Bottom Panel



Attach the OAS front bottom panel. Use (16) M10 x 25MM serrated hex head bolts and (16) M10 serrated hex flange nuts to attach the OAS front bottom panel to the shell assembly.

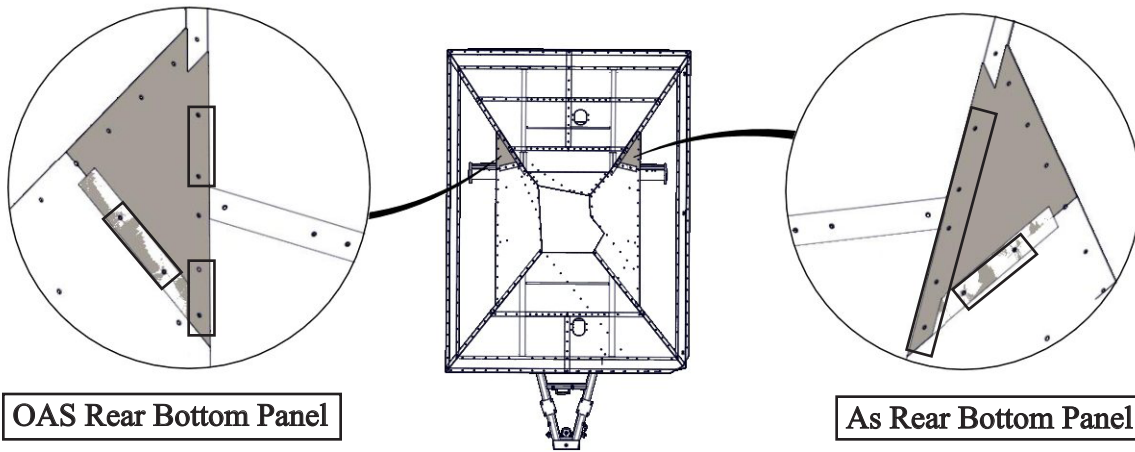
STEP - 24

AS Front Bottom Panel



Attach the AS front bottom panel. Use (16) M10 x 25MM serrated hex head bolts and (16) M10 serrated hex flange nuts to attach the AS front bottom panel to the shell assembly. If the front bottom panels have any sag in them, move your front leg forward. **Once finished tighten the front leg.**

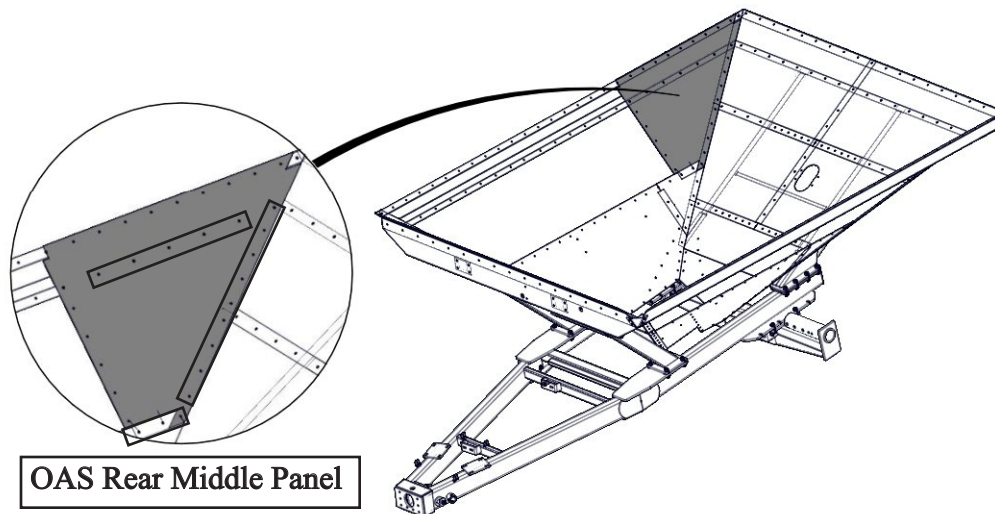
STEP - 25



Attach the OAS rear bottom panel. Use (6) M10 serrated hex head bolts and (6) M10 serrated hex flange nuts to attach the OAS rear bottom panel to the shell assembly.

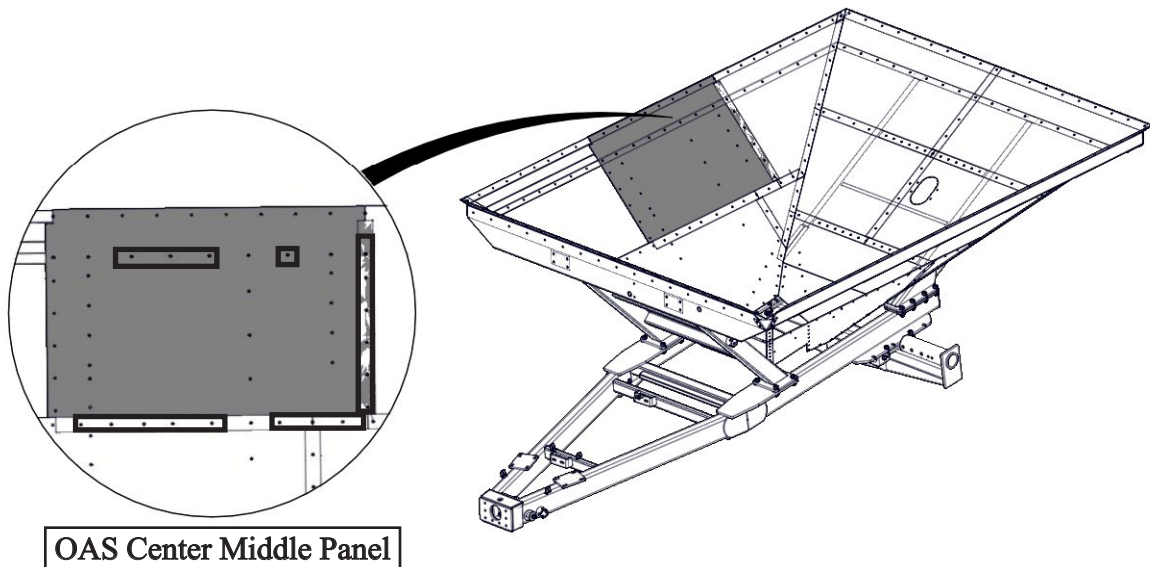
Attach the AS rear bottom panel. Use (7) M10 serrated hex head bolts and (7) M10 serrated hex flange nuts to attach the AS rear bottom panel to the shell assembly.

STEP - 26



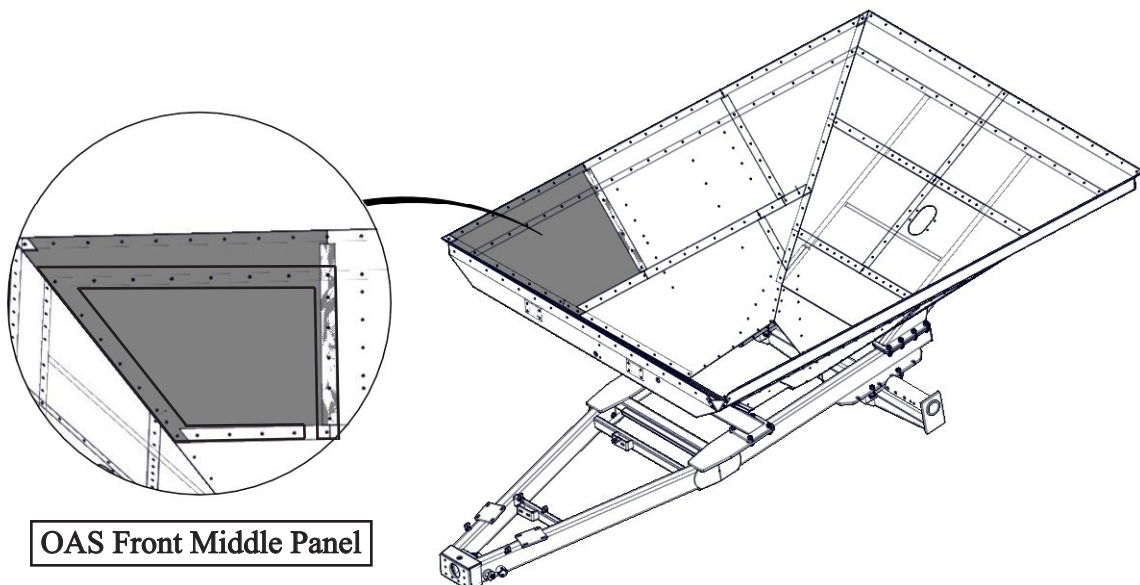
Attach the OAS rear middle panel. Use (17) M10 x 25MM serrated hex head bolts and (17) M10 serrated hex flange nuts to attach the OAS rear middle panel to the shell assembly.

STEP - 27



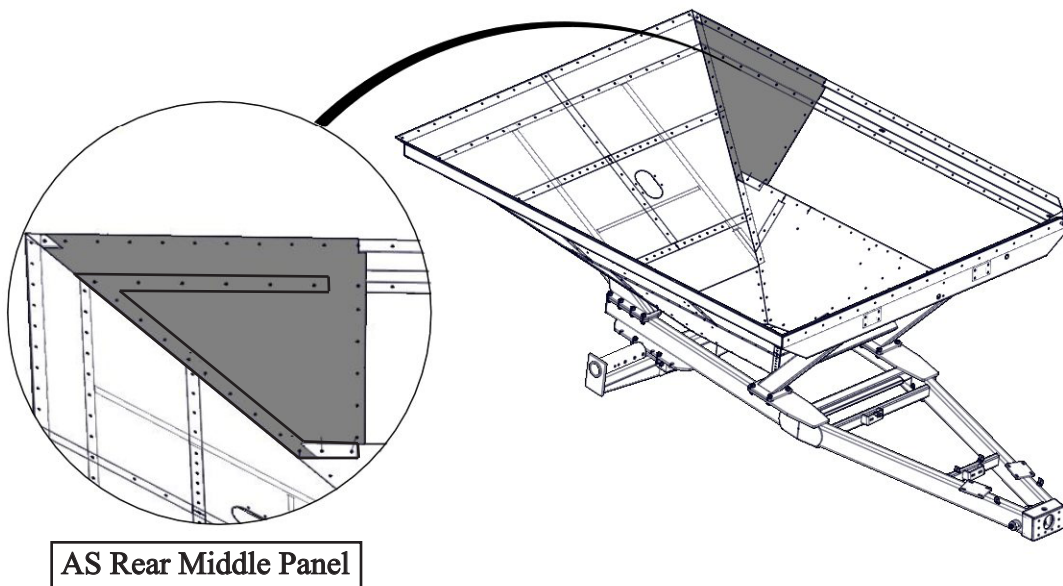
Attach the OAS center middle panel. Use (18) M10 x 25MM serrated hex head bolts and (18) M10 serrated hex flange nuts to attach the OAS center middle panel to the shell assembly.

STEP - 28



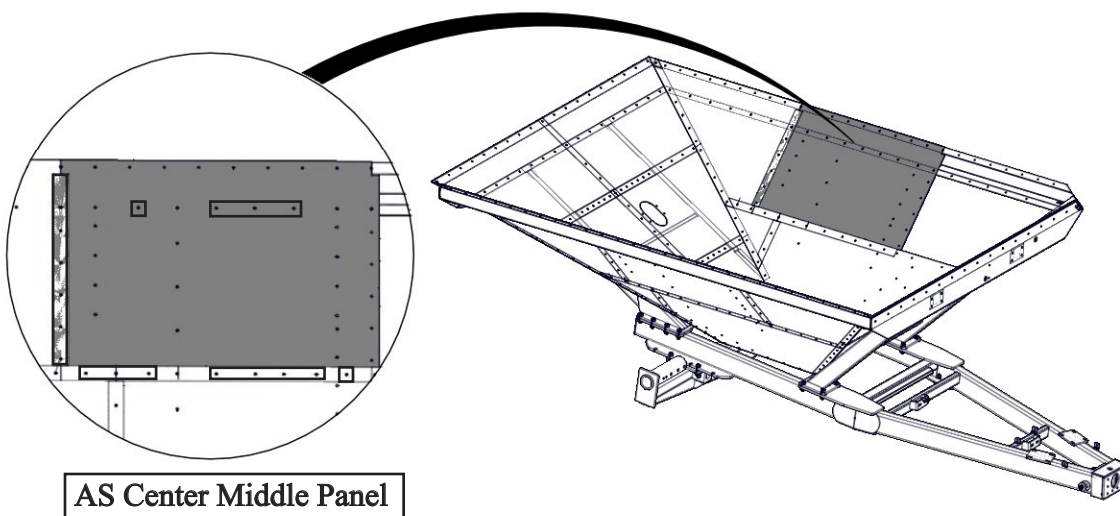
Attach the OAS front middle panel. Use (24) M10 x 25MM serrated hex head bolts and (24) M10 serrated hex flange nuts to attach the OAS front middle panel to the shell assembly.

STEP - 29



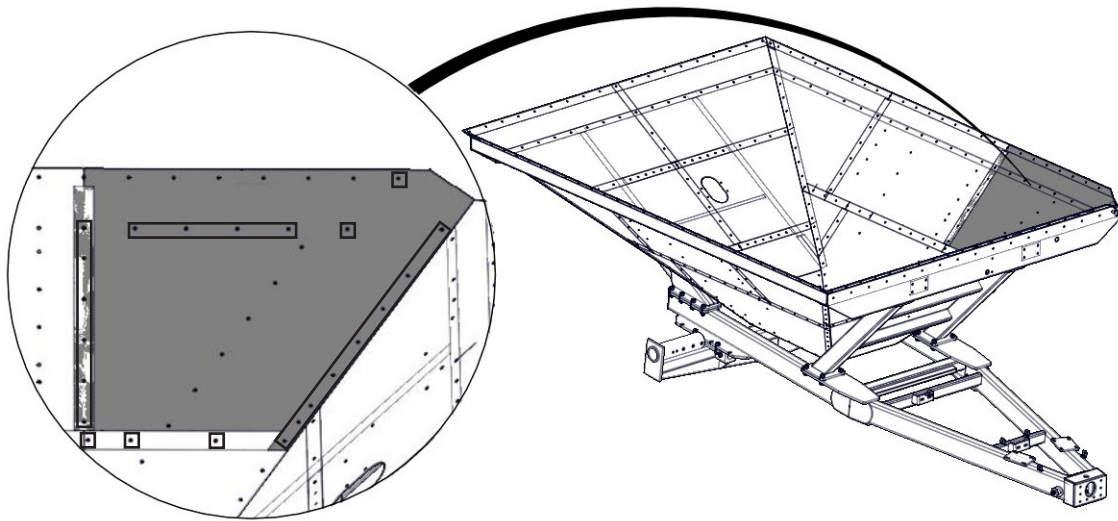
Attach the AS rear middle panel. Use (17) M10 x 25MM serrated hex head bolts and (17) M10 serrated hex flange nuts to attach the AS rear middle panel to the shell assembly.

STEP - 30



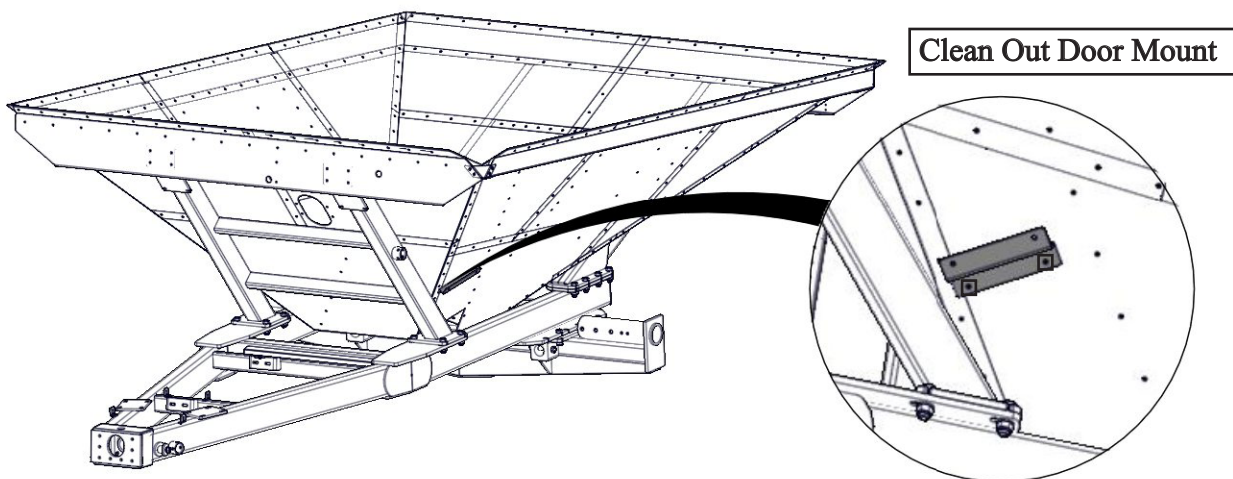
Attach the AS center middle panel. Use (18) M10 x 25MM serrated hex head bolts and (18) M10 serrated hex flange nuts to attach the AS center middle panel to the shell assembly.

STEP - 31

**AS Front Middle Panel**

Attach the AS front middle panel. Use (23) M10 x 25MM serrated hex head bolts and (23) M10 serrated hex flange nuts to attach the AS front middle panel to the shell assembly.

STEP - 32

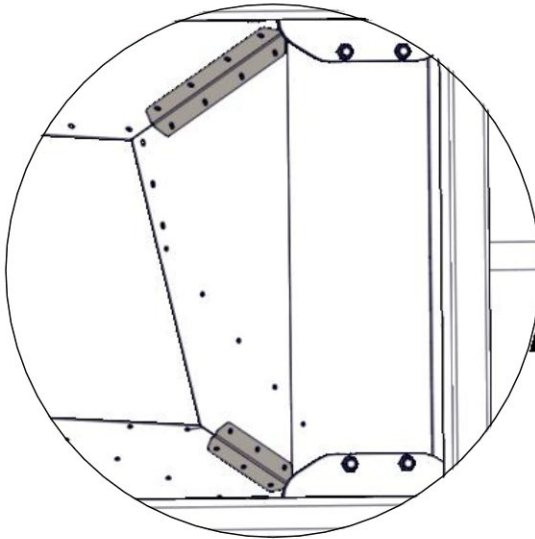
**Clean Out Door Mount**

Attach the clean out door mount using (2) M10 x 25MM serrated flange hex head bolts and (2) M10 serrated flange hex nuts.

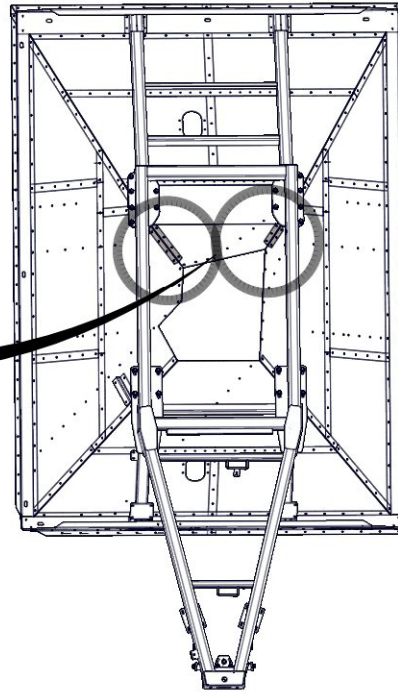
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STEP - 33

Bottom Panel Corner Left



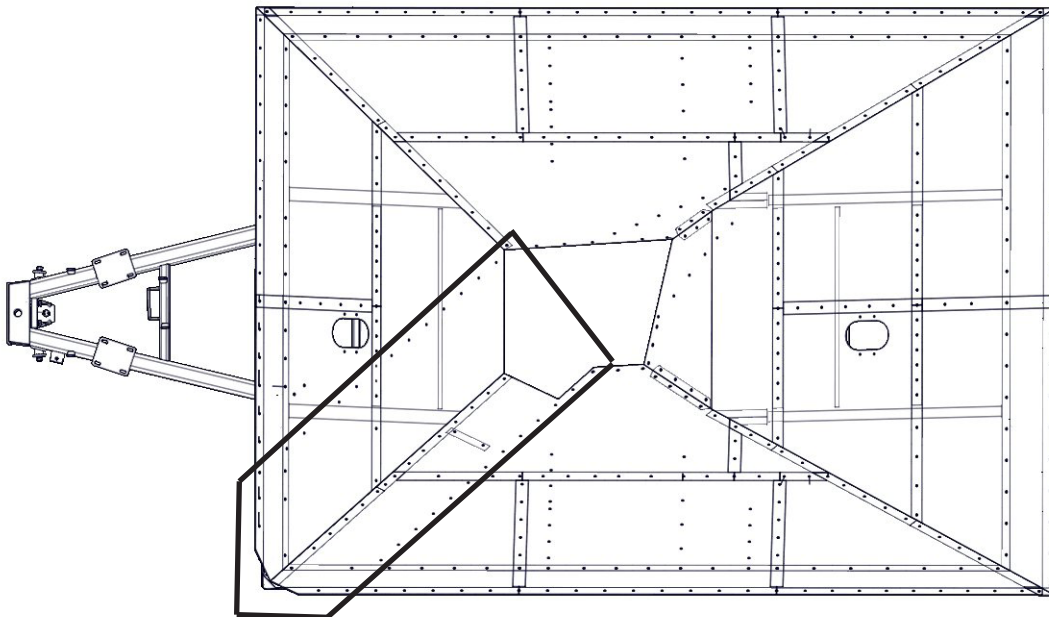
Bottom Panel Corner Right



Bottom View

Attach the bottom panel corner right. Use (6) M10 x 25MM serrated hex head bolts and (6) M10 serrated hex flange nuts to attach the bottom panel corner right to the shell assembly.
Attach the bottom panel corner left. Use (8) M10 x 25MM serrated hex head bolts and M10 serrated hex flange nuts to attach the bottom panel corner left to the shell assembly.

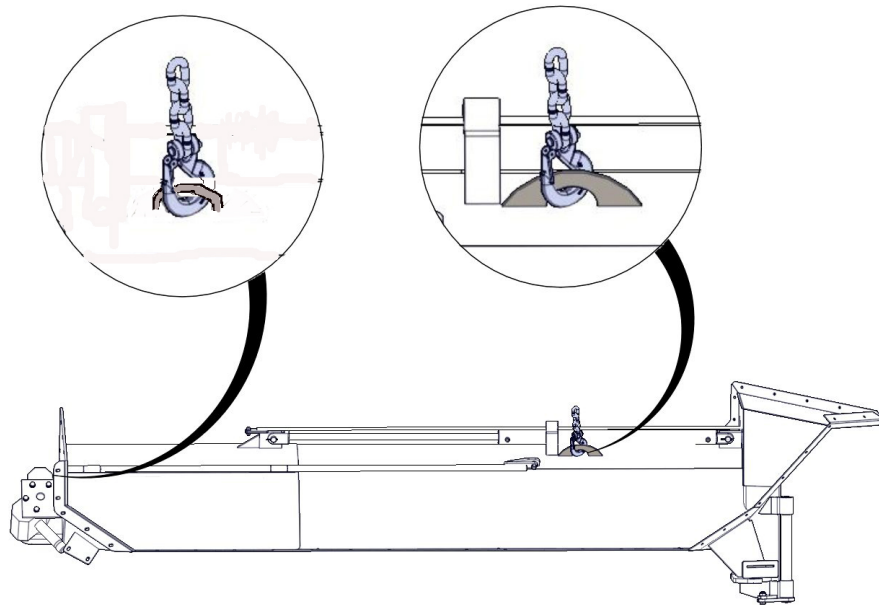
STEP - 34



STOP! Tighten the bolts that are surrounded by the box in the above figure. These bolts will be inaccessible after the next few steps.

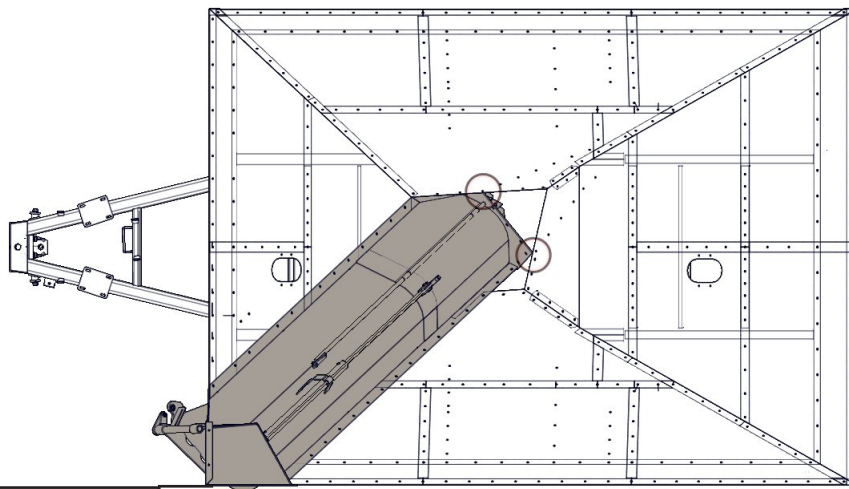
GC24T-1 GRAIN CART ASSEMBLY

STEP - 35



Using an overhead hoist, lift the bottom tube assembly using the lifting hook holes. This should help set the appropriate angle for laying the assembly into the tank.

STEP - 36

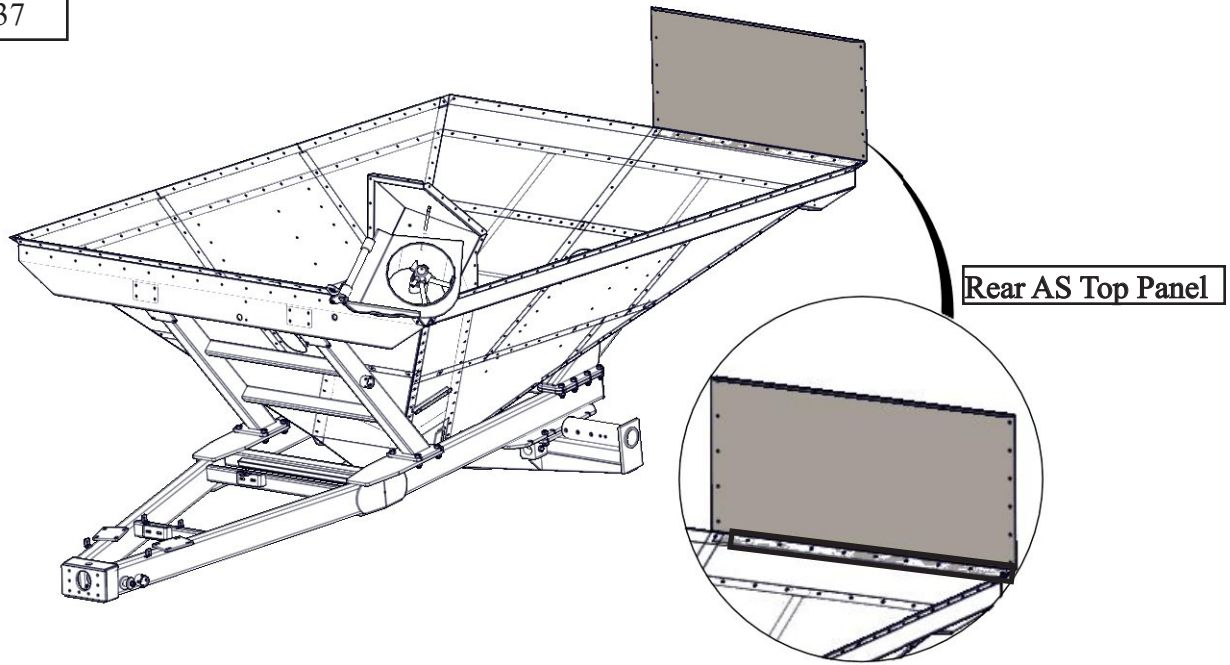


The bottom tube needs to rest on the outside of the corner piece that is attached to the rails.

Using an overhead hoist, lift the bottom tube assembly into the front left corner of the grain cart. Lower the bottom tube assembly until the two corners that are circled in the figure to the right to go below the tank assembly. Then raise the lower auger back up so that the two circled corners can be bolted to the tank. Attach using (25) M10 x 25 MM serrated hex head bolts and (25) M10 serrated hex nuts. Use a drift pin as needed to help line up the holes accordingly.

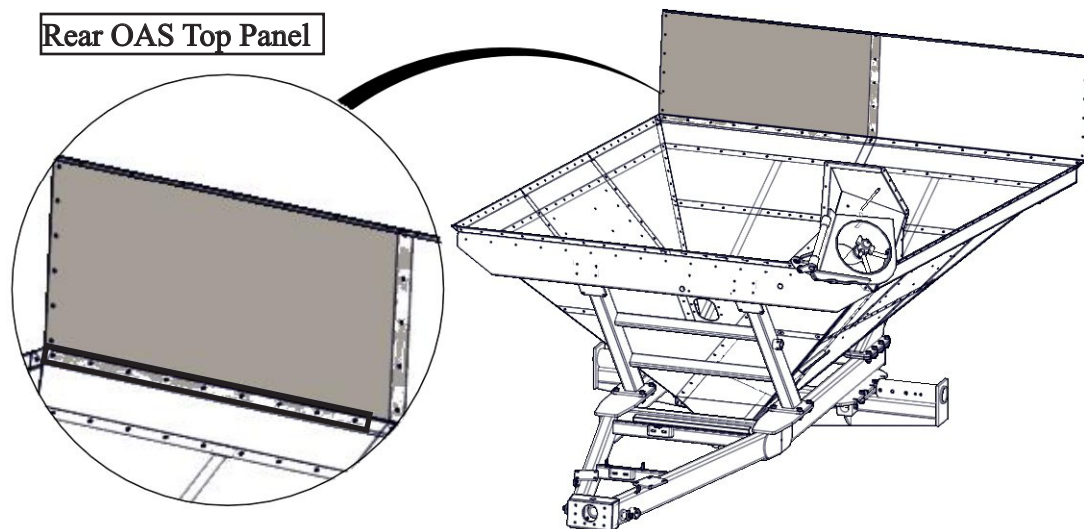
GC24T-1 GRAIN CART ASSEMBLY

STEP - 37



Attach the rear AS top panel. Use (9) M10 x 25MM serrated hex head bolts to attach the rear AS top panel to the shell assembly.

STEP - 38



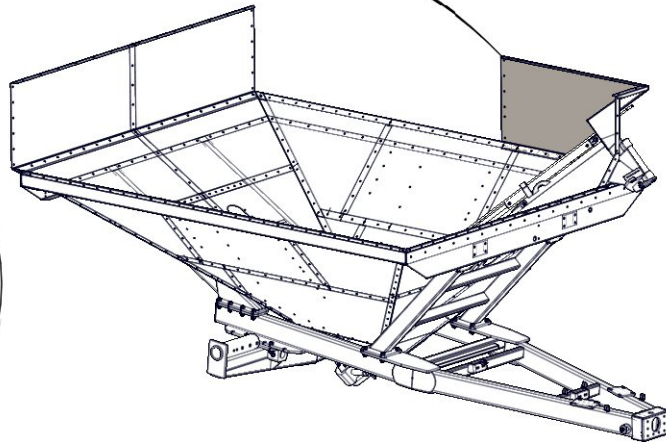
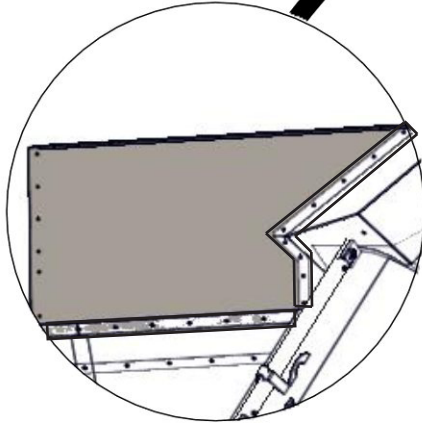
Attach the rear OAS top panel. Use (9) M10 x 25MM serrated hex head bolts to attach the rear OAS top panel to the shell assembly.

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STEP - 39

This panel is to be placed on the outside of the bottom auger.

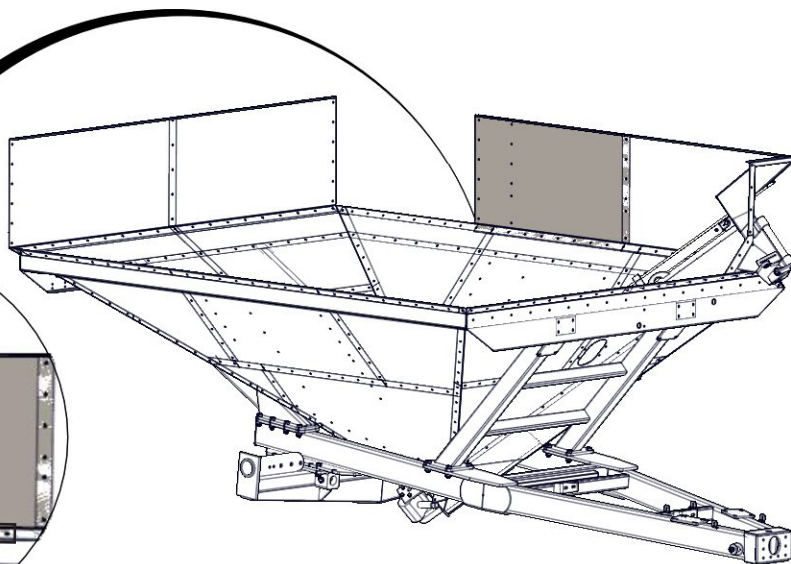
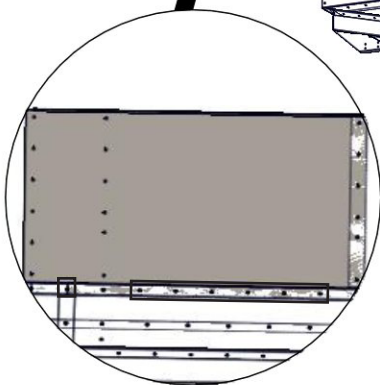
AS Front Top Panel



Attach the AS front top panel. Use (15) M10 x 25MM serrated hex head bolts and (15) M10 serrated hex flange nuts to attach the AS front top panel to the shell assembly.

STEP - 40

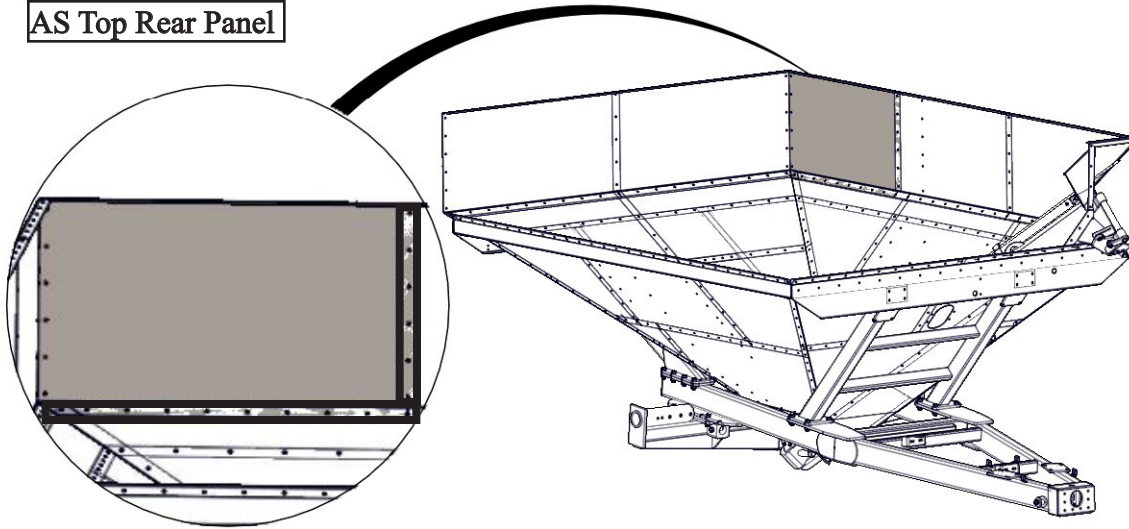
AS Middle Top Panel



Attach the AS middle top panel. Use (7) M10 x 25MM serrated hex head bolts and (7) M10 serrated hex flange nuts to attach the AS middle top panel to the shell assembly.

STEP - 41

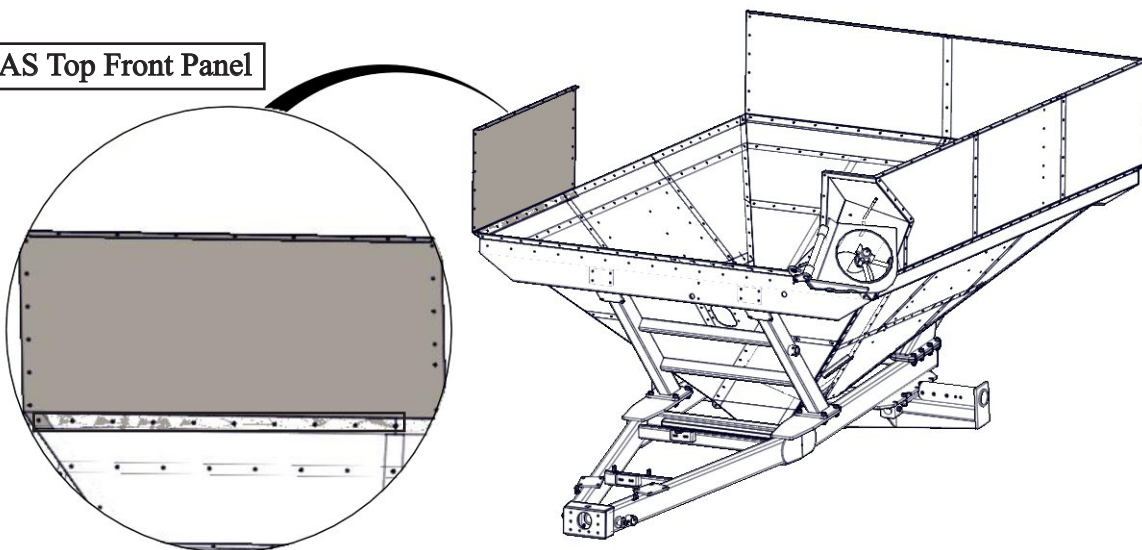
AS Top Rear Panel



Attach the AS rear top panel. Use (16) M10 x 25MM serrated hex head bolts and (16) M10 serrated hex flange nuts to attach the AS top rear panel to the shell assembly.

STEP - 42

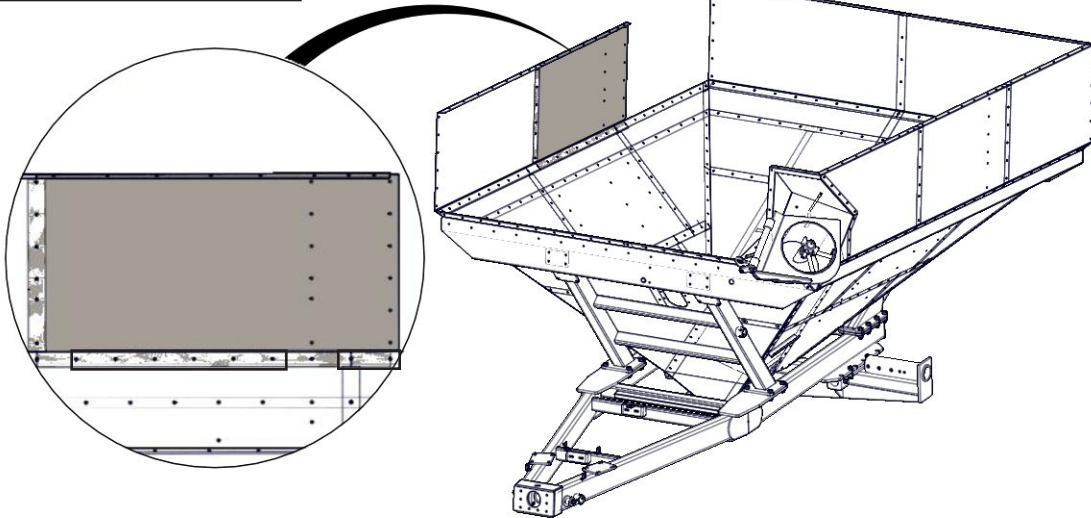
OAS Top Front Panel



Attach the OAS front top panel. Use (10) M10 x 25MM serrated hex head bolts and (10) M10 serrated hex flange nuts to attach the OAS top front panel to the shell assembly.

STEP - 43

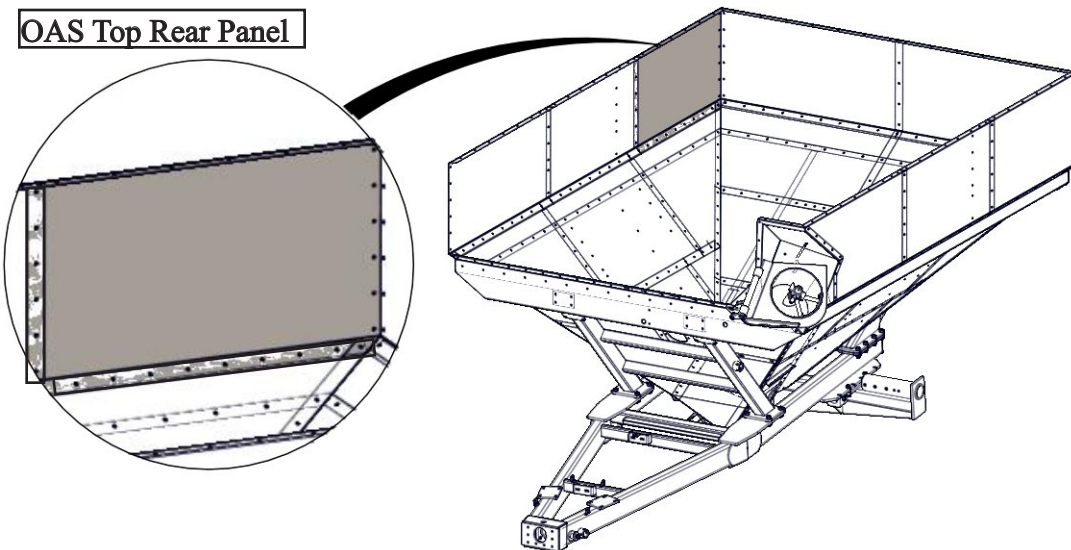
OAS Top Middle Panel



Attach the OAS middle top panel. Use (8) M10 x 25MM serrated hex head bolts and (8) M10 serrated hex flange nuts to attach the OAS top middle panel to the shell assembly.

STEP - 44

OAS Top Rear Panel

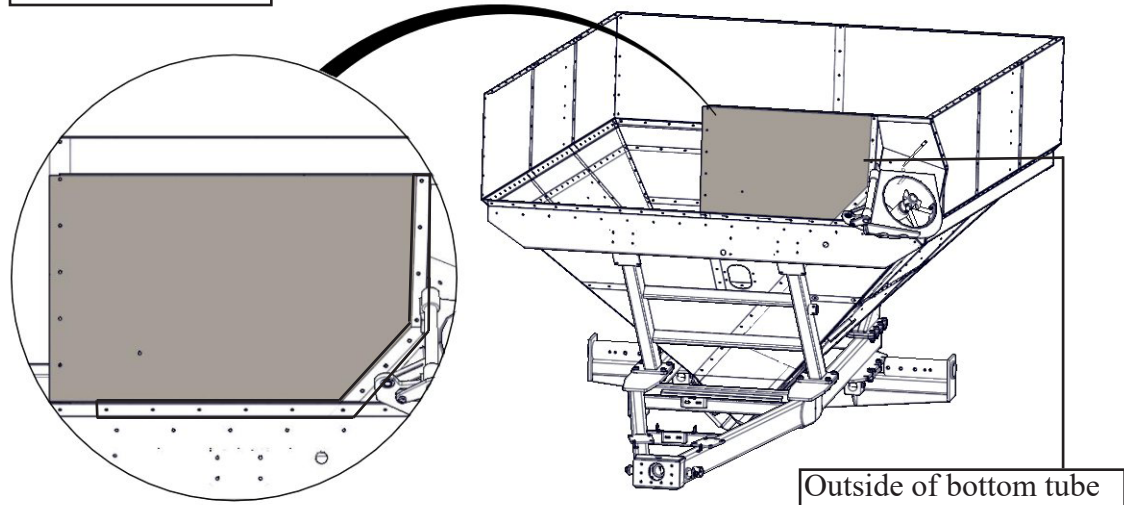


Attach the OAS rear top panel. Use (15) M10 x 25MM serrated hex head bolts and (15) M10 serrated hex flange nuts to attach the OAS top rear panel to the shell assembly.

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STEP - 45

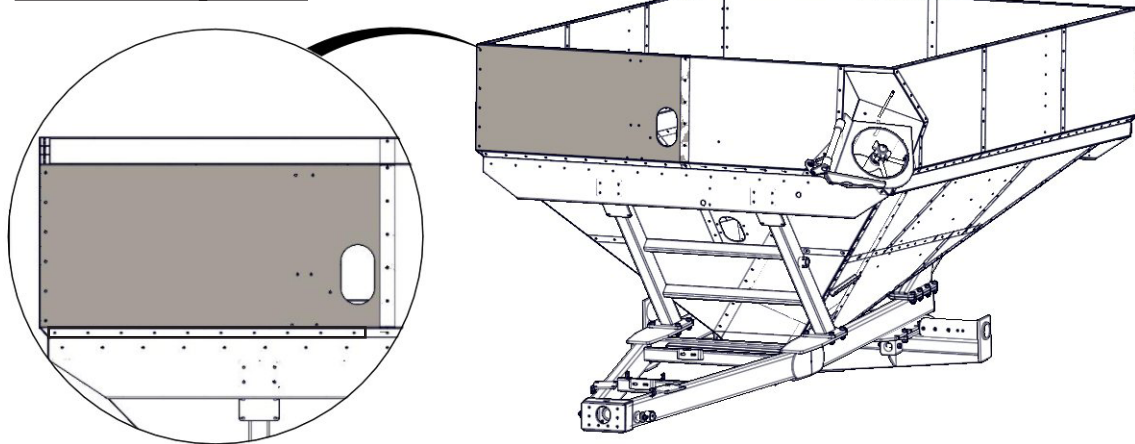
Front AS Top Panel



Attach the front AS top panel. Use (13) M10 x 25MM serrated hex head bolts and (13) M10 serrated hex flange nuts to attach the front AS top panel

STEP - 46

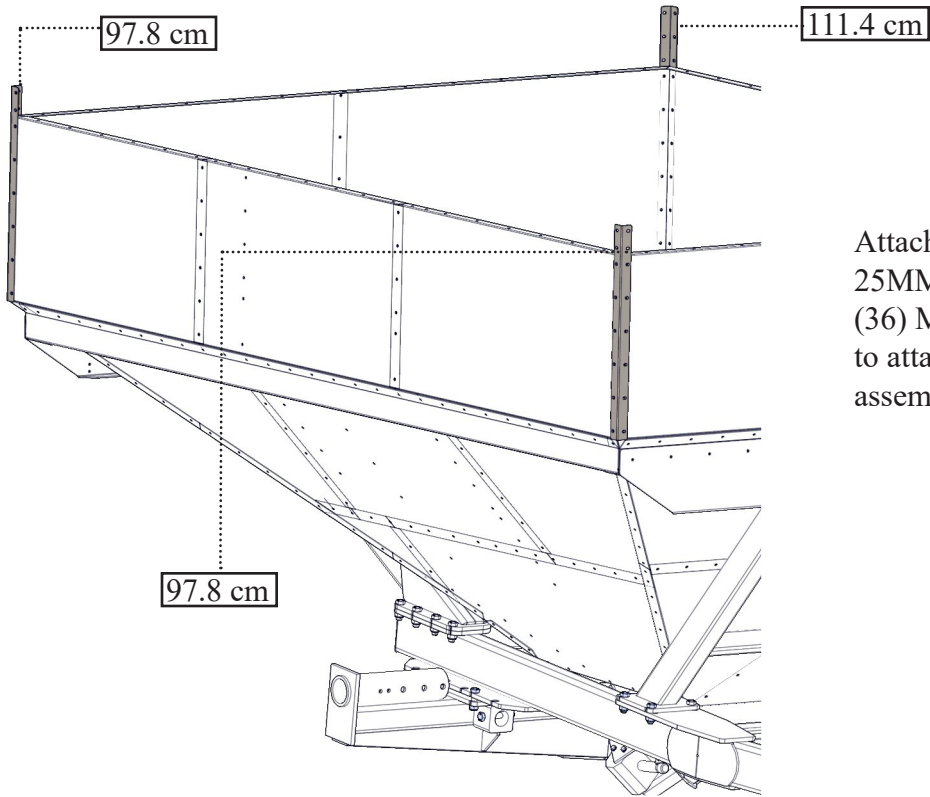
Front OAS Top Panel



Attach the front OAS top panel. Use (10) M10 x 25MM serrated hex head bolts and (10) M10 serrated hex flange nuts to attach the front OAS top panel.

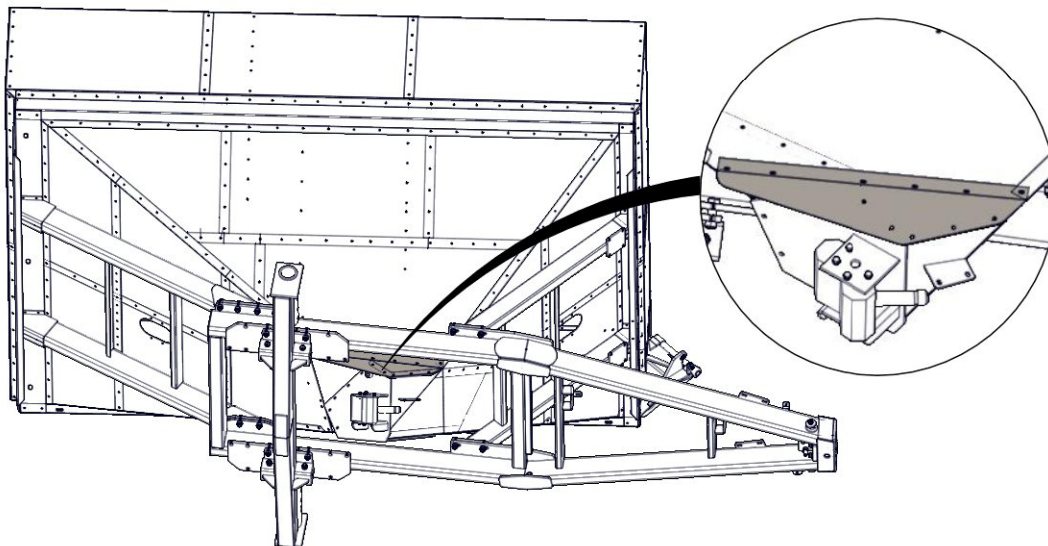
GC24T-1 GRAIN CART ASSEMBLY

STEP - 47



Attach the corners. Use (36) M10 x 25MM serrated hex head bolts and (36) M10 serrated hex flange nuts to attach the corners to the shell assembly.

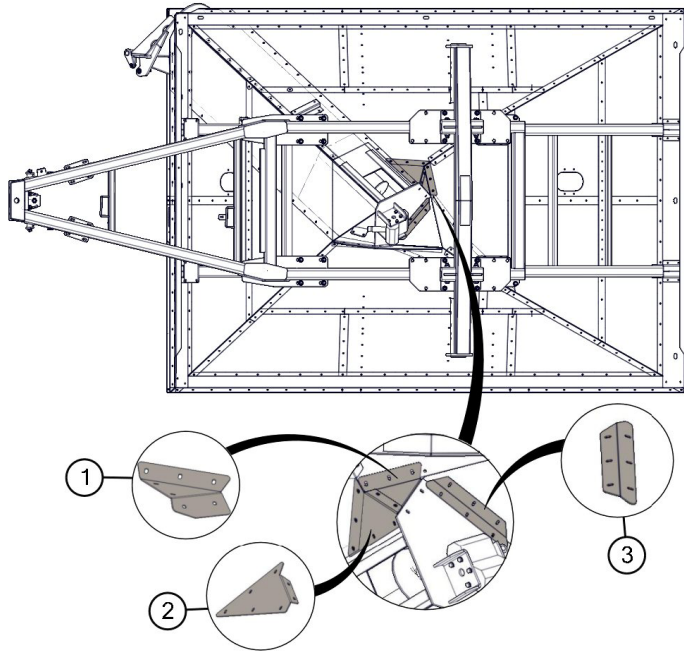
STEP - 48



Install the gearbox top plate. Use (10) M10 x 25MM serrated hex head bolts and (10) M10 serrated hex flange nuts to attach the gearbox top plate to the shell assembly.

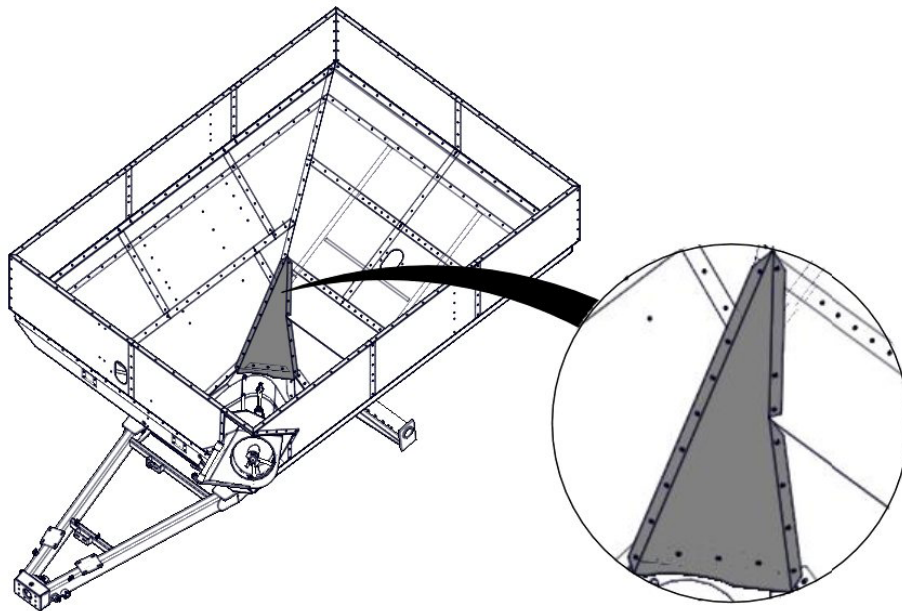
GC24T-1 GRAIN CART ASSEMBLY

STEP - 49



Install the {1} rear slope splice plate & the {2} side slope splice plate. Use (10) M10 x 25MM serrated hex head bolts and (10) M10 serrated hex flange nuts to attach them to the gearbox assembly. Install the {3} inside sheddar panel splice plate. Use (10) M10 x 25MM serrated hex head bolts and (10) M10 serrated hex flange nuts for attachment.

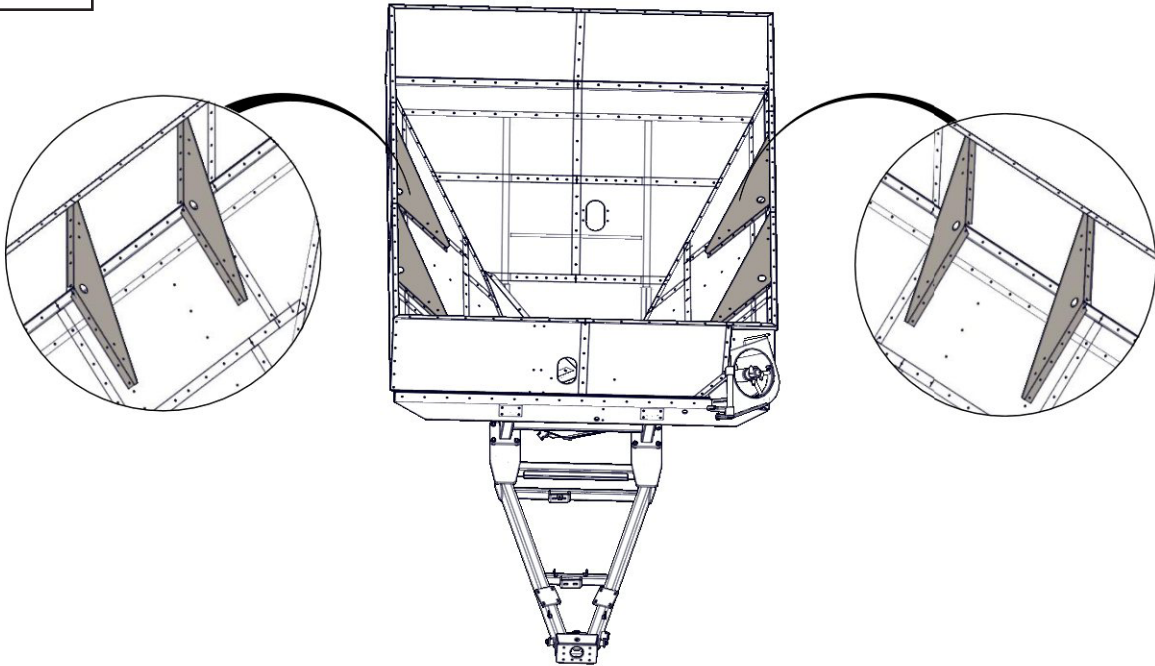
STEP - 50



Before installing another panel tighten hardware on the lower panels and gearbox splice plates. Install the rear lower sheddar panel. Use (18) M10 x 25MM serrated hex head bolts and (18) M10 serrated hex flange nuts to attach the rear lower sheddar panel to the shell assembly.

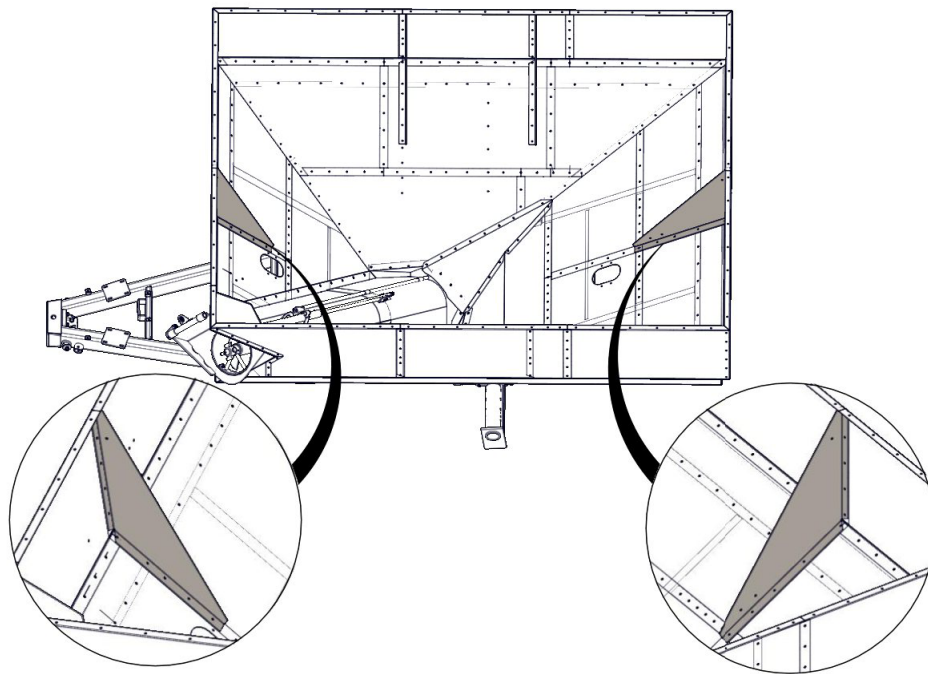
GC24T-1 GRAIN CART ASSEMBLY

STEP - 51



Install all four side gussets. Use (12) M10 x 25MM serrated hex head bolts and (12) M10 serrated hex flange nuts to attach each side gusset to the side panels.

STEP - 52



Install the front & rear gussets. Use (10) M10 x 25MM serrated hex head bolts and (10) M10 serrated hex flange nuts to attach each gusset to the side panels.

GC24T-1 GRAIN CART ASSEMBLY

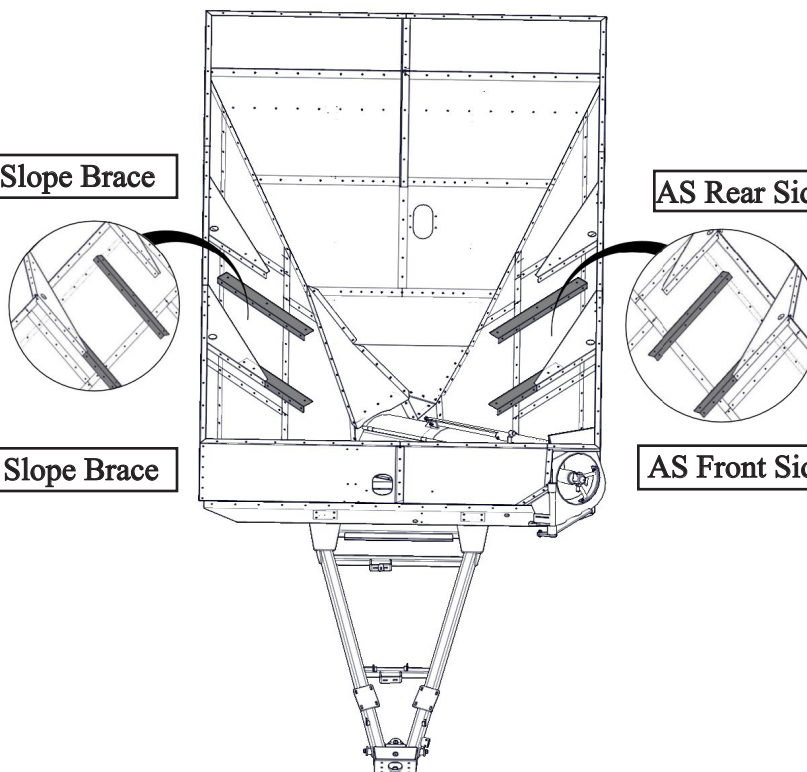
STEP - 53

OAS Rear Side Slope Brace

AS Rear Side Slope Brace

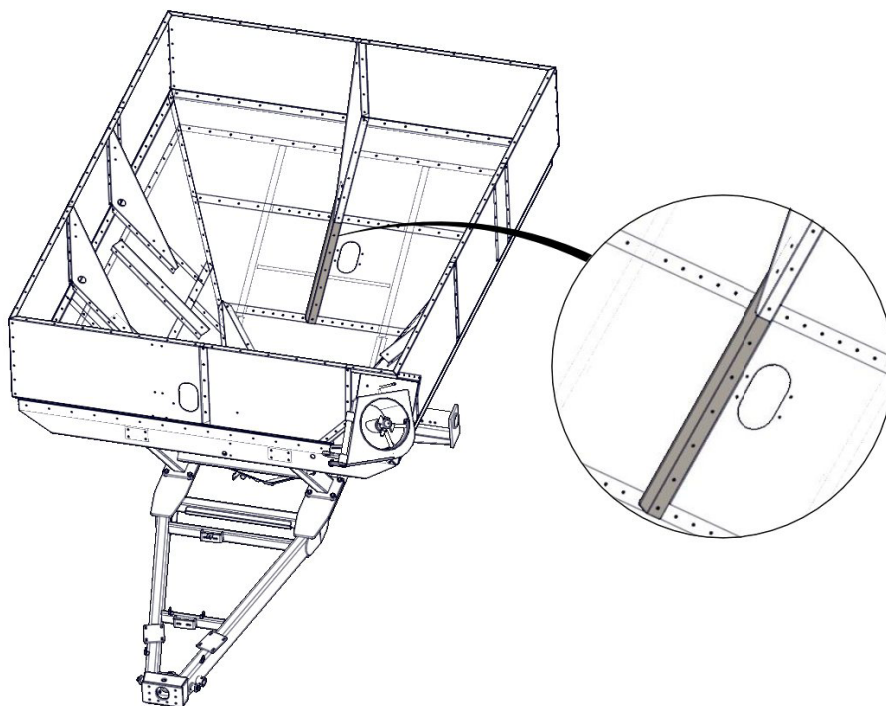
OAS Front Side Slope Brace

AS Front Side Slope Brace



Install the opposite auger side and auger side slope braces. Use (6) M10 x 25MM serrated hex head bolts and (6) M10 serrated hex flange nuts to attach each Slope Brace to the shell assembly.

STEP - 54

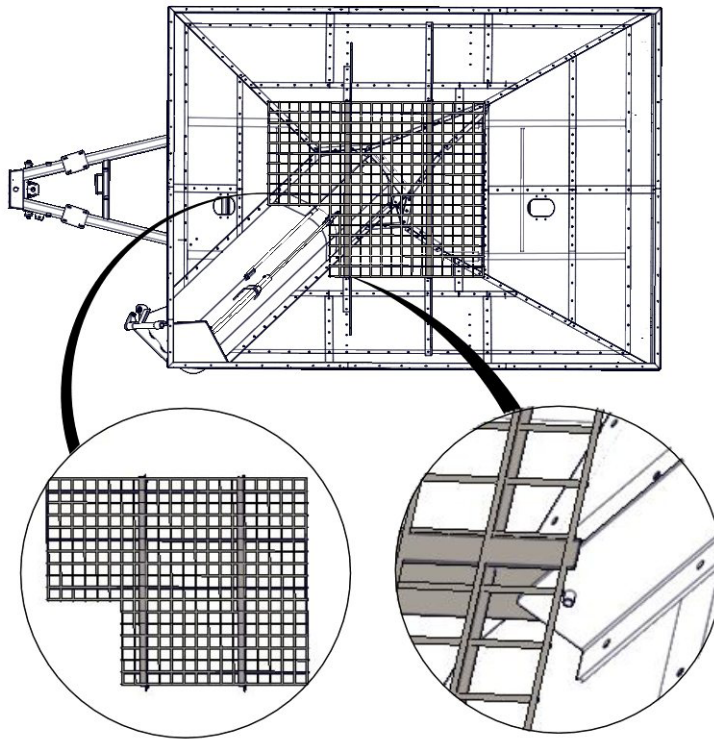


Install the rear slope brace. Use (8) M10 x 25MM serrated hex head bolts and (8) M10 serrated hex flange nuts to attach the rear slope brace to the shell assembly. **Now tighten all of the mid-level tank panels.**

GC24T-1 GRAIN CART ASSEMBLY

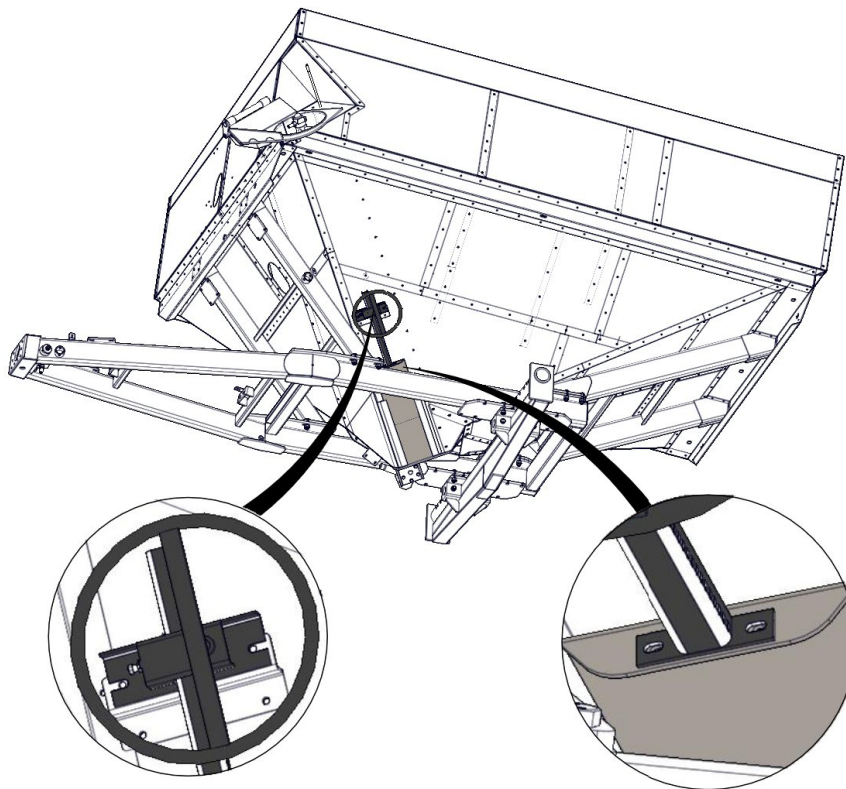
STEP - 55

Tank Screen

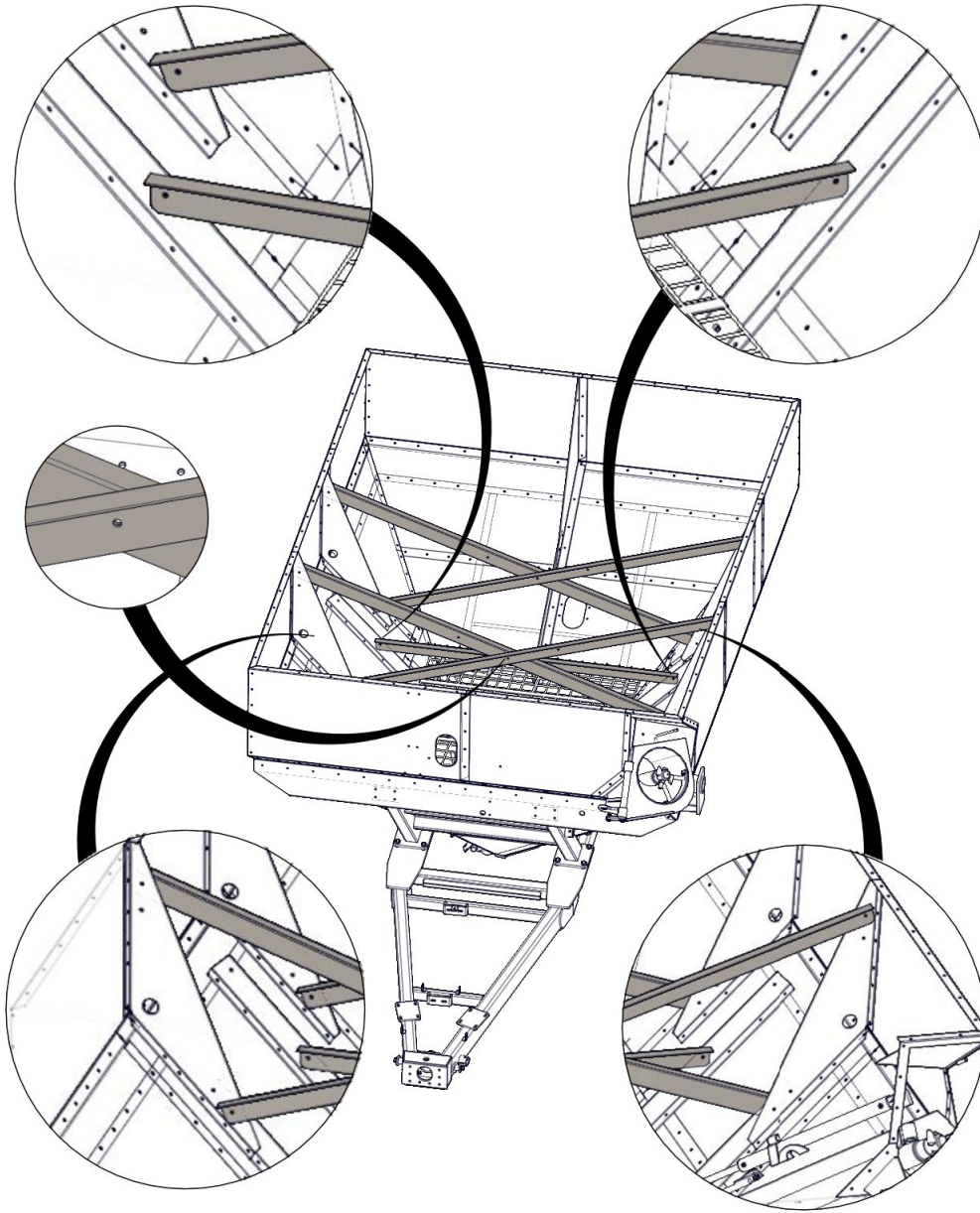


Install the tank screen. Use (4) M10 x 25MM serrated hex head bolts and (4) M10 serrated hex nuts to attach the tank screen to the slope braces.

STEP - 56



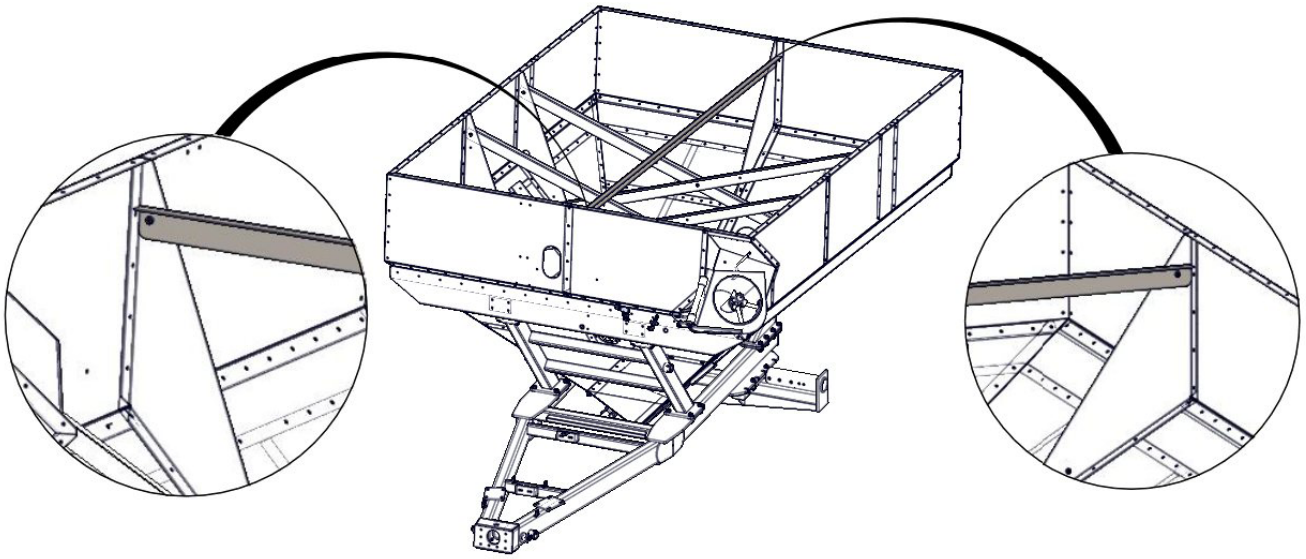
Install the clean out door. Use (4) M10 x 25MM serrated hex head bolts and (4) M10 serrated hex flange nuts to attach the clean out door to the shell assembly.



Install the front and rear cross braces. One set includes two braces which are 130" inches(330cm) in length. Use (2) M12 x 25 MM serrated flange hex head bolts and (2) M12 locking nuts to attach the braces to the side gussets. Use (1) M12 x 25 MM serrated flange hex head bolt and (1) M12 locking nut to fasten the two cross braces together in the center.

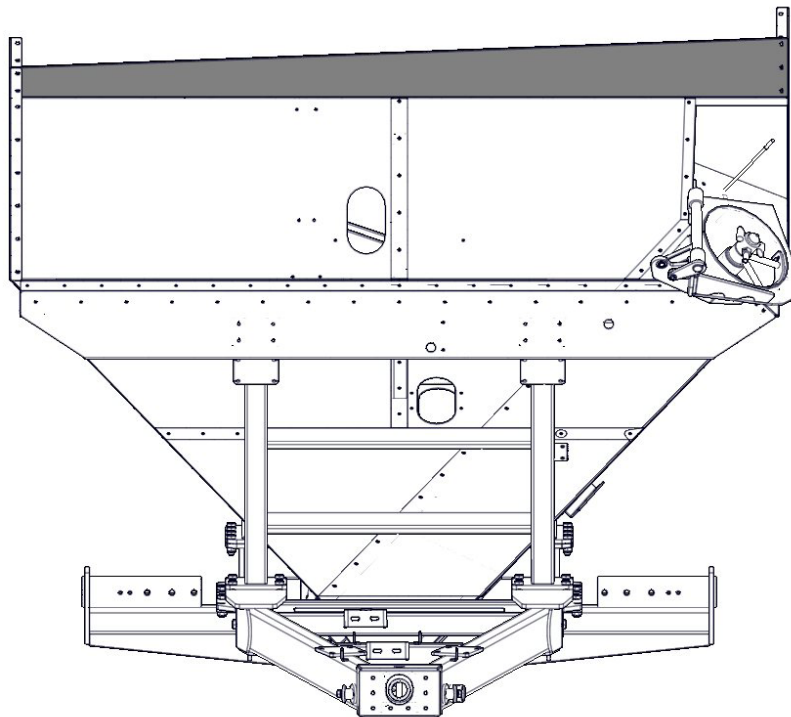
Install the lower cross brace. The lower cross brace is 100" inches(254cm) in length. Use (2) M12 x 25 MM serrated flange hex head bolts and (2) M12 locking nuts to attach the lower cross brace to the side slope braces.

STEP - 58



Install the front to back brace. Use (2) M12 x 25 MM serrated flange hex head bolts and (2) M12 serrated hex flange nuts. To attach the front to back brace to the front and rear side gussets.

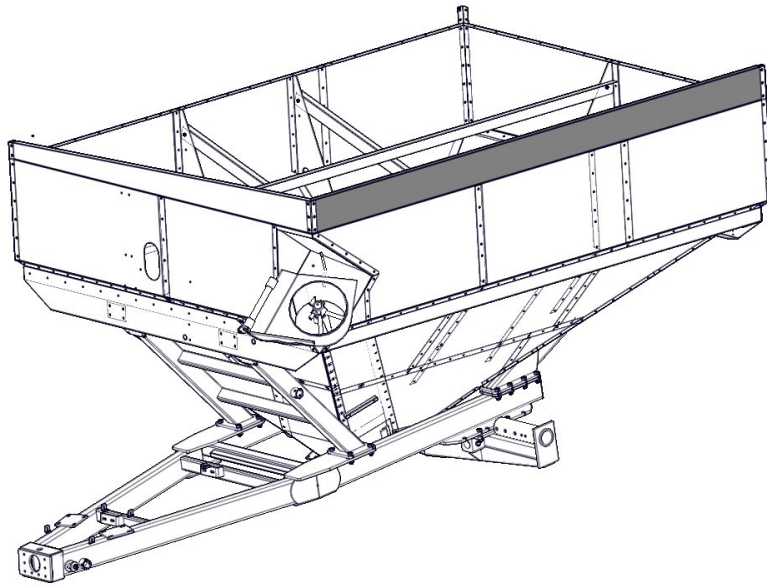
STEP - 59



Attach the front end board. Use (16) M10 x 25 MM serrated flange hex head bolts and (16) M10 serrated hex flange nuts to attach the front end board to the top panels.

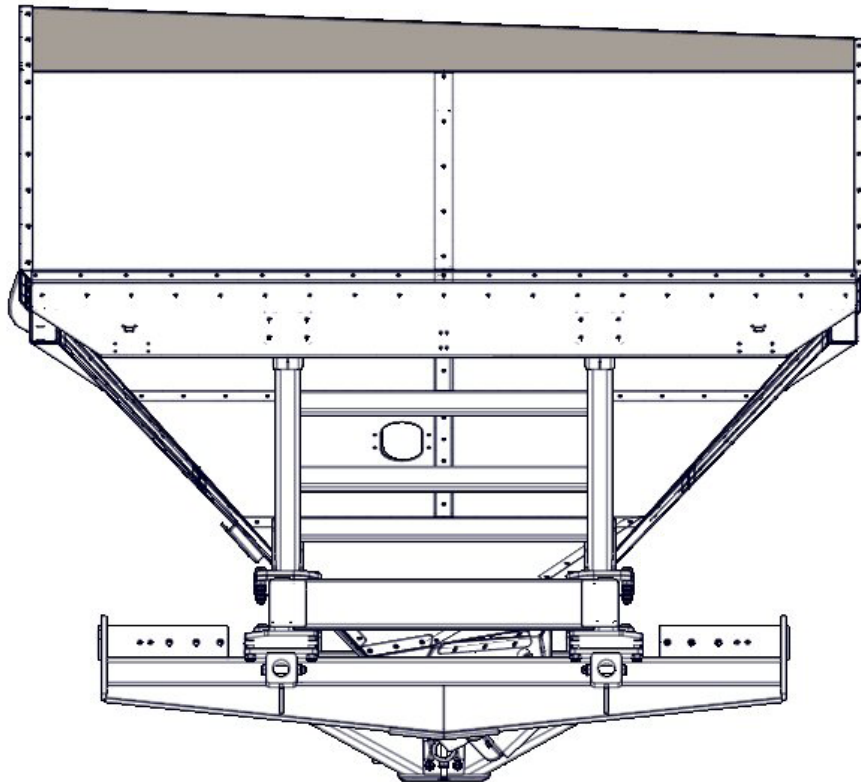
GC24T-1 GRAIN CART ASSEMBLY

STEP - 60



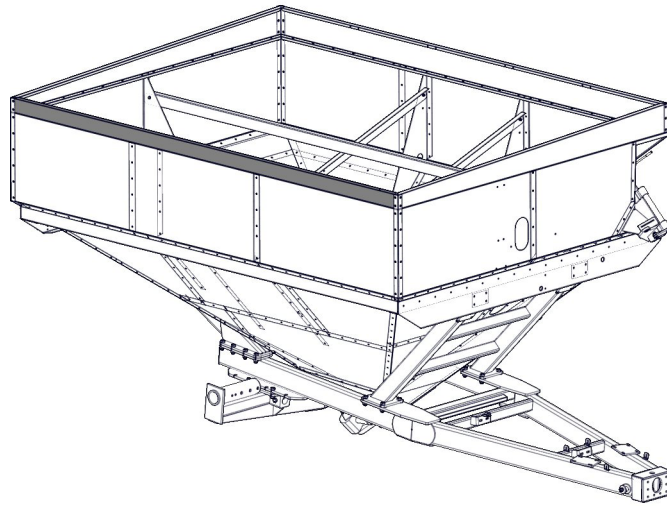
Attach the high sideboard. Use (22) M10 x 25 MM serrated hex head bolts and (22) M10 serrated hex flange nuts to attach the high sideboard to the top panels

STEP - 61



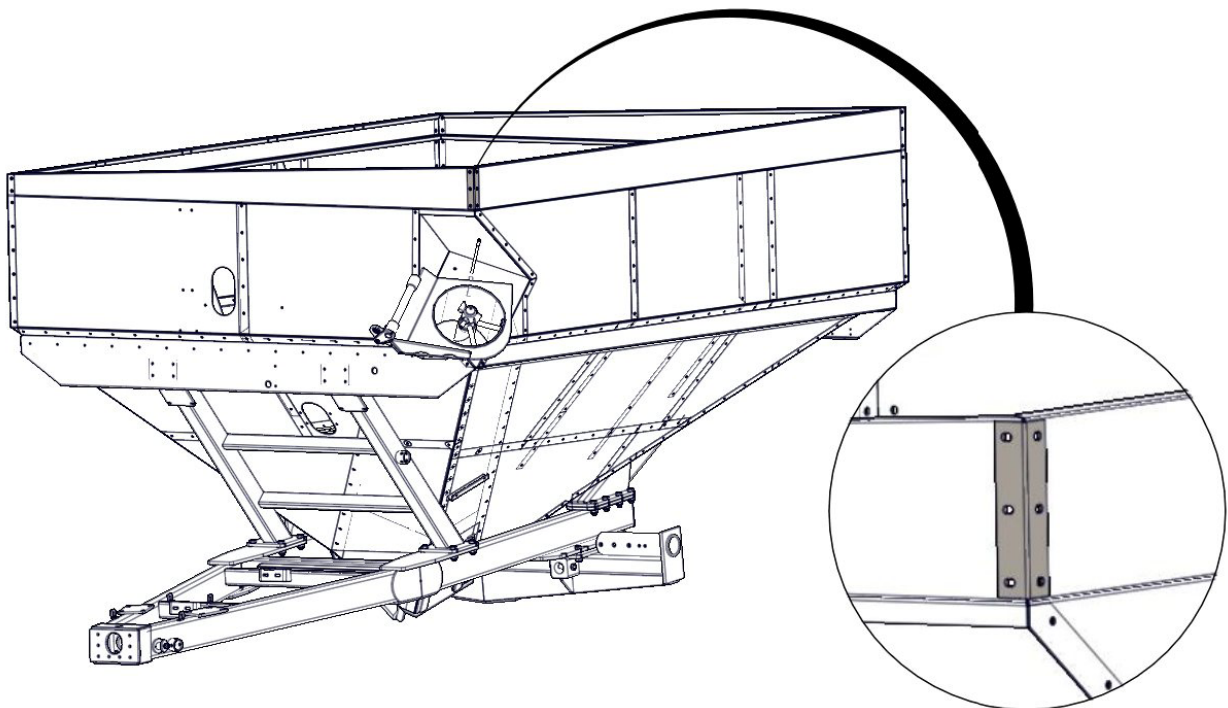
Attach the rear end board, Use (19) M10 x 25 MM serrated hex head bolts and (19) M10 serrated hex flange nuts to attach the rear end board to the top panels.

STEP - 62



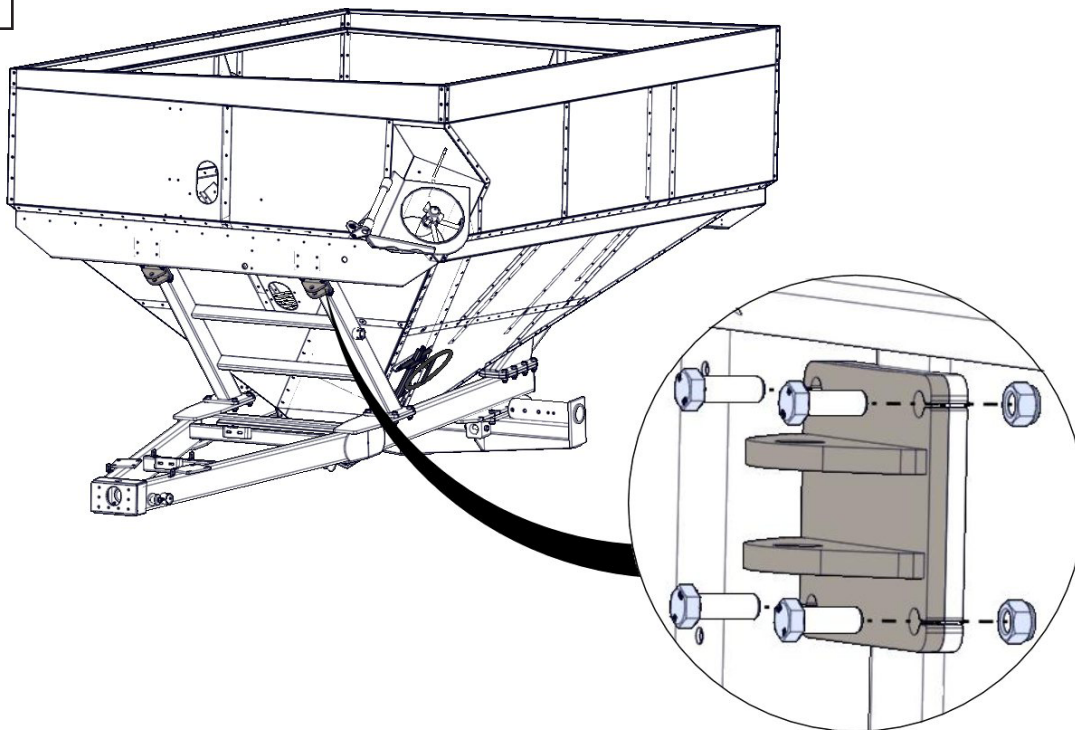
Attach the low side board. Use (23) M10 x 25 MM serrated hex head bolts and (23) M10 serrated hex flange nuts to attach the low side board to the top panels.

STEP - 63



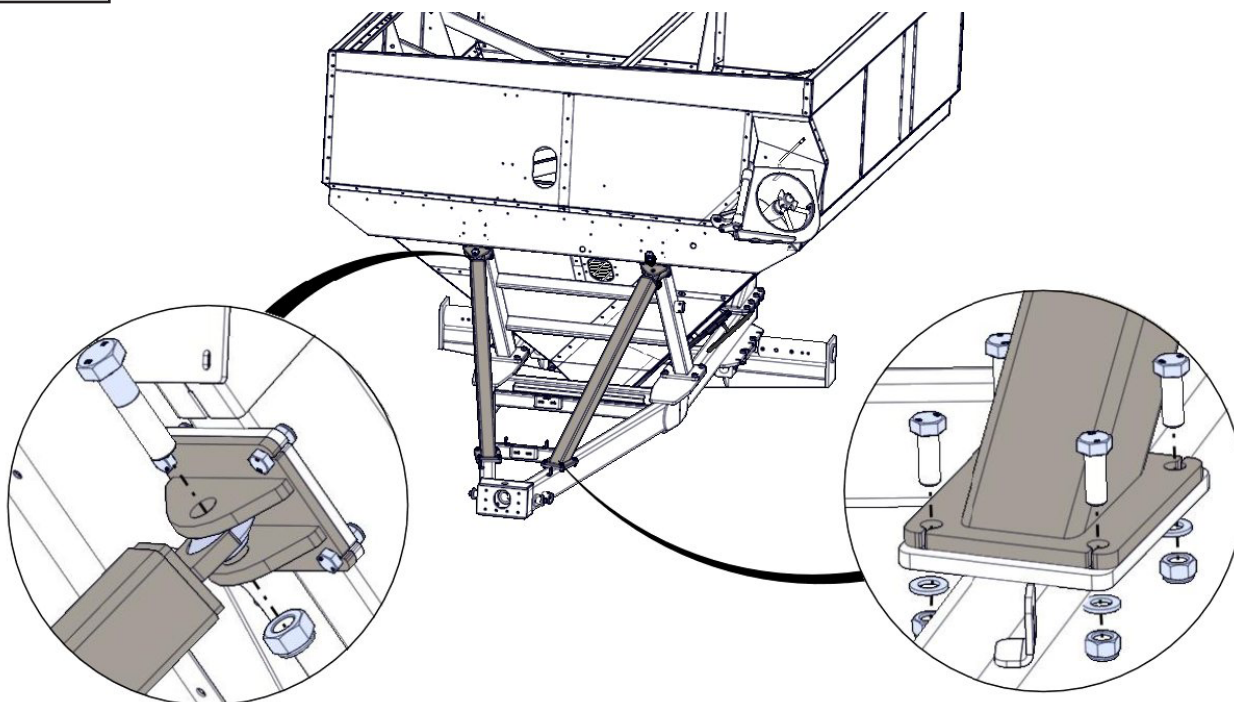
Install the AS front corner. Use (6) M10 x 25 MM serrated hex head bolts and (6) M10 serrated hex flange nuts to attach the AS front corner to the front end board and high sideboard. **Next, tighten any bolts that are loose on the cart.**

STEP - 64



Attach the ear mount pads. Use (8) M16 x 45 MM and (8) M16 locking nuts to attach the ear mount pads to the front leg. Tighten the ear mount pads immediately after installation.

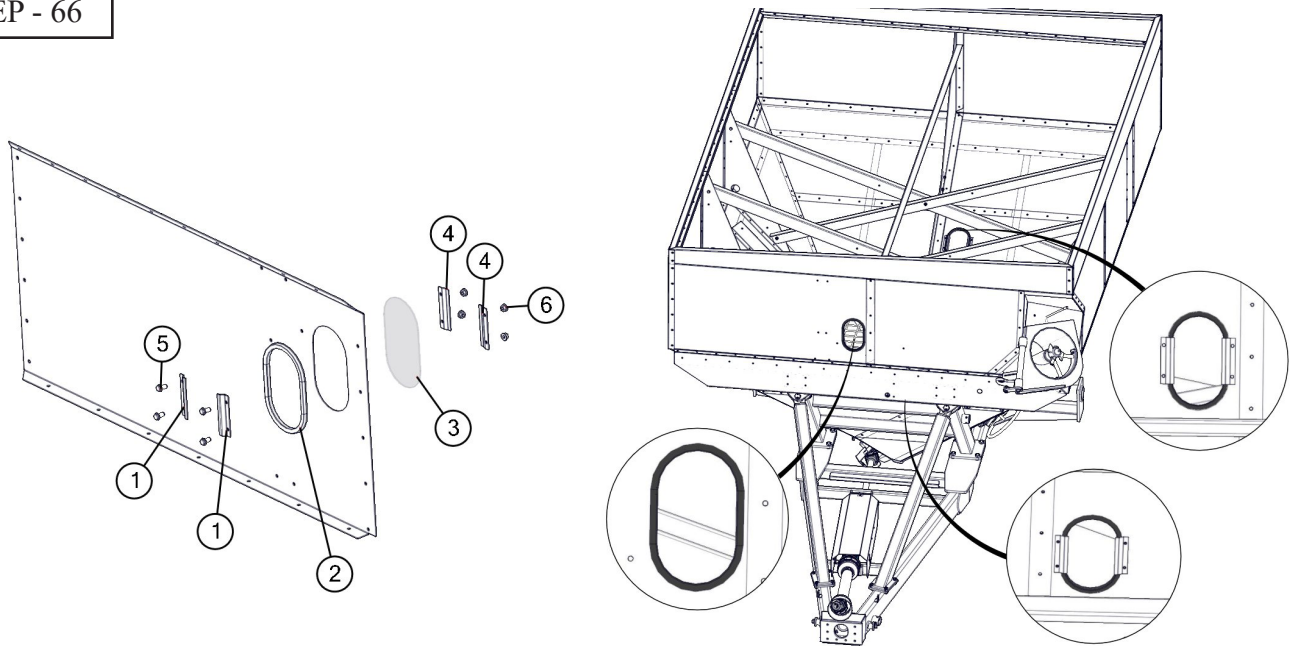
STEP - 65



Install the front leg braces. Use (8) M16 x 45 MM serrated hex head bolts, (8) M16 washers, and (8) M16 locking nuts to attach the front leg brace to frame.

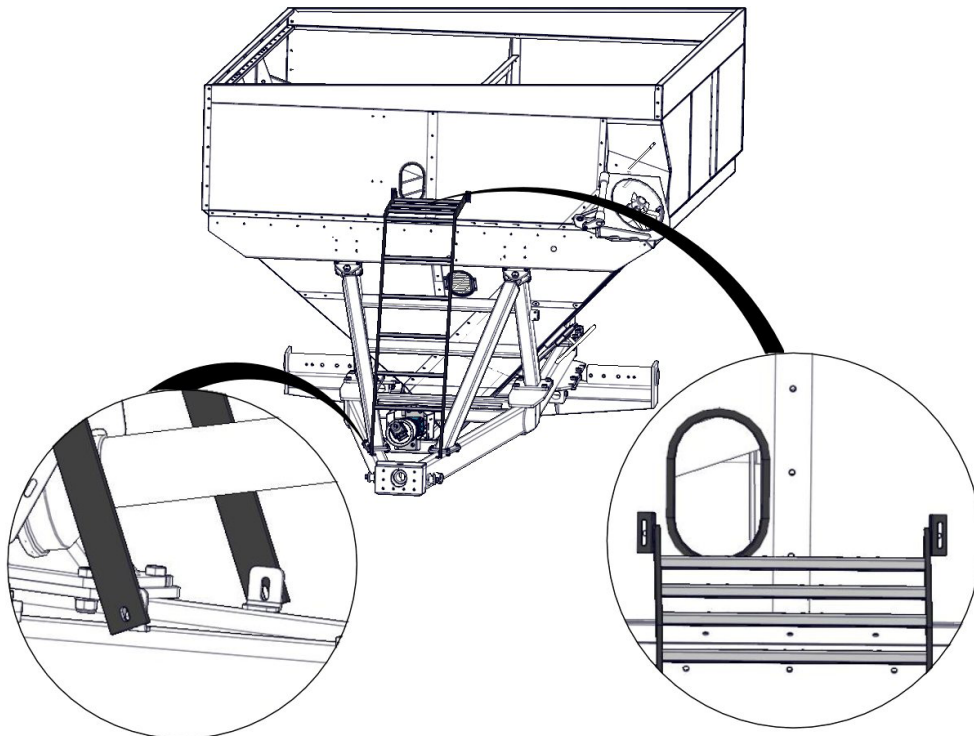
Use M30 x 120MM serrated hex head bolts and M30 locking nuts to attach the front leg brace to the ear mount pads.

STEP - 66



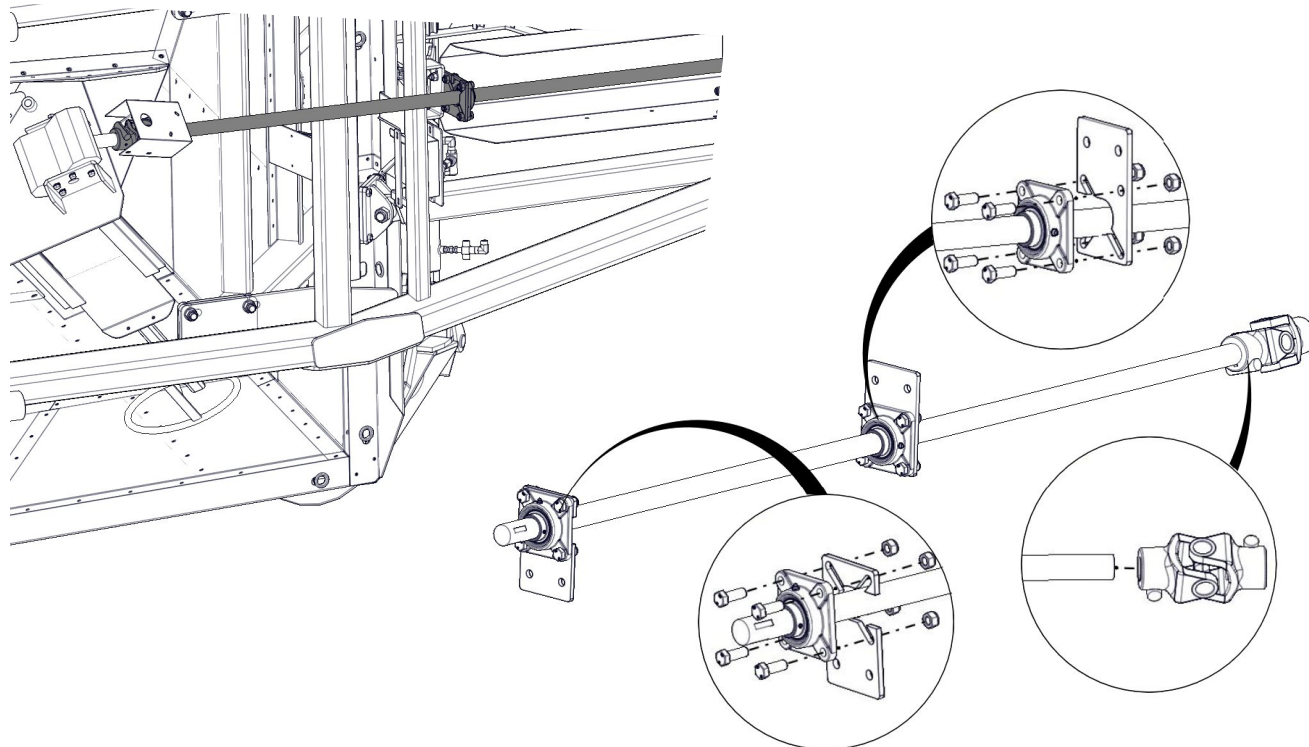
Install all three windows. The top window consists of the window and window seal. The front and rear lower windows take (4) M10 x 25MM serrated hex head bolts, (4) M10 locking nuts, window, window seal, (2) inner brackets, and (2) outer brackets. Start by insert the window seal followed by the window. Then install both the inner and outer brackets with their hardware.

STEP - 67



Install the ladder assembly. First attach the ladder brackets to the front panels. Use (2) M10 x 25MM serrated hex head bolts and (2) M10 locking nuts. Now attach the ladder. Attach the top of the ladder to the brackets using (2) M10 x 25MM serrated hex head bolts and (2) M10 locking nuts. Use the same hardware to attach the ladder to the bottom brackets which are welded to the frame.

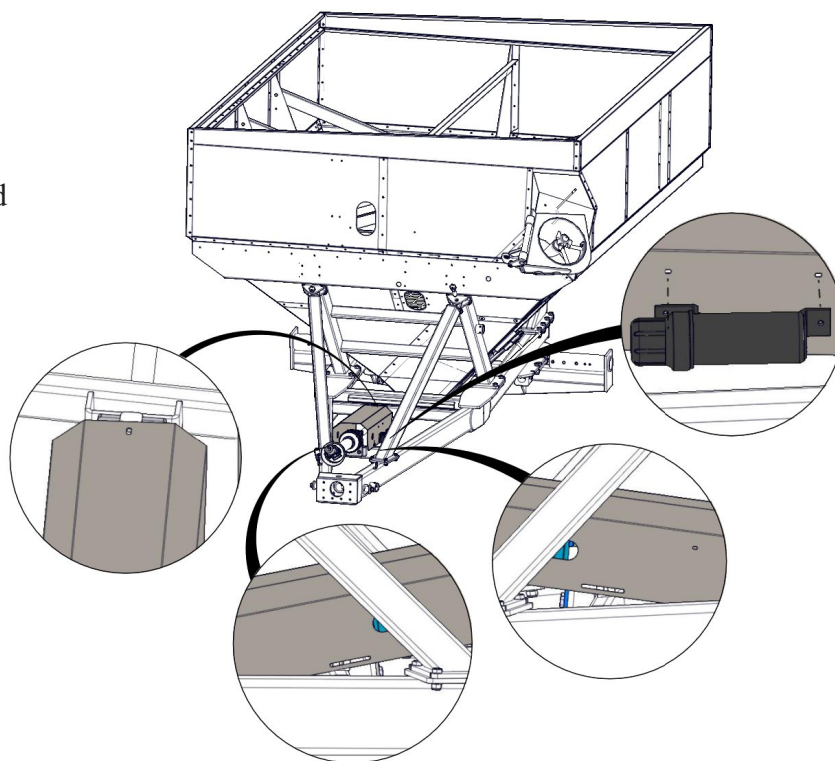
STEP - 68



Install the driveshaft assembly with M16 x 45 MM bolts and locknuts without flanges. Only use washers on bolt and nut for end plates that bolt onto the main frame weldment.

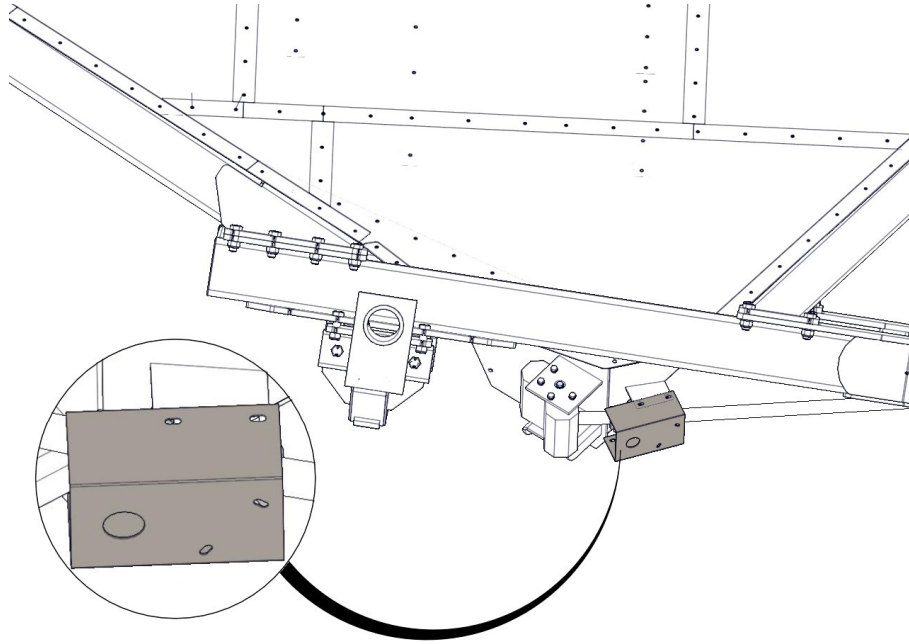
STEP - 69

Install driveline shield. Use (3) M10 x 25MM serrated hex head bolts and (3) M10 serrated hex flange nuts to attach the driveline shield to the frame. Attach the manual holder with (2) M6 hex head bolts, (2) M6 washers and (2) M6 hex head nuts.



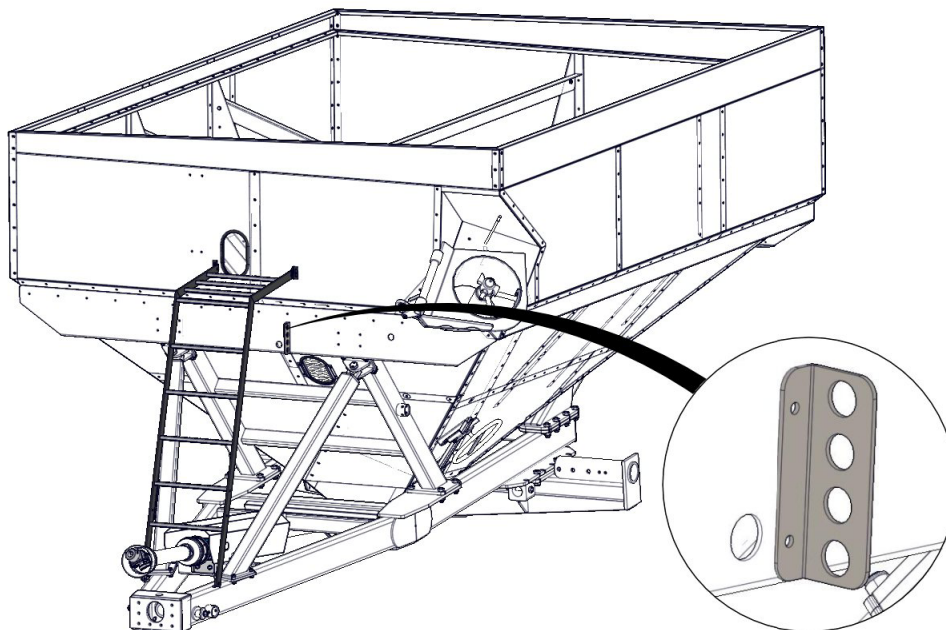
GC24T-1 GRAIN CART ASSEMBLY

STEP - 70



Install knuckle guard. Use (2) M10 serrated hex head bolts and (2) M10 serrated hex flange nuts to attach the knuckle guard to the gearbox assembly.

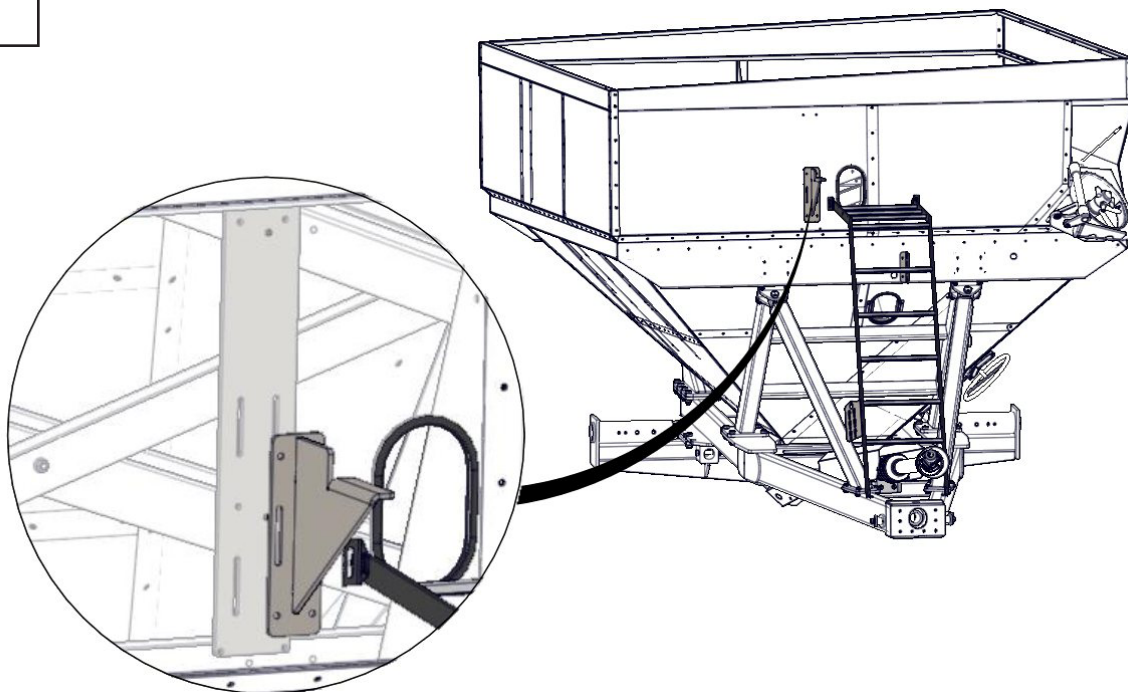
STEP - 71



Install the hydraulic hose holder tank bracket. Use (2) M10 x 25MM serrated hex head bolts and (2) M10 serrated hex flange nuts to attach the hose holder to the shell assembly.

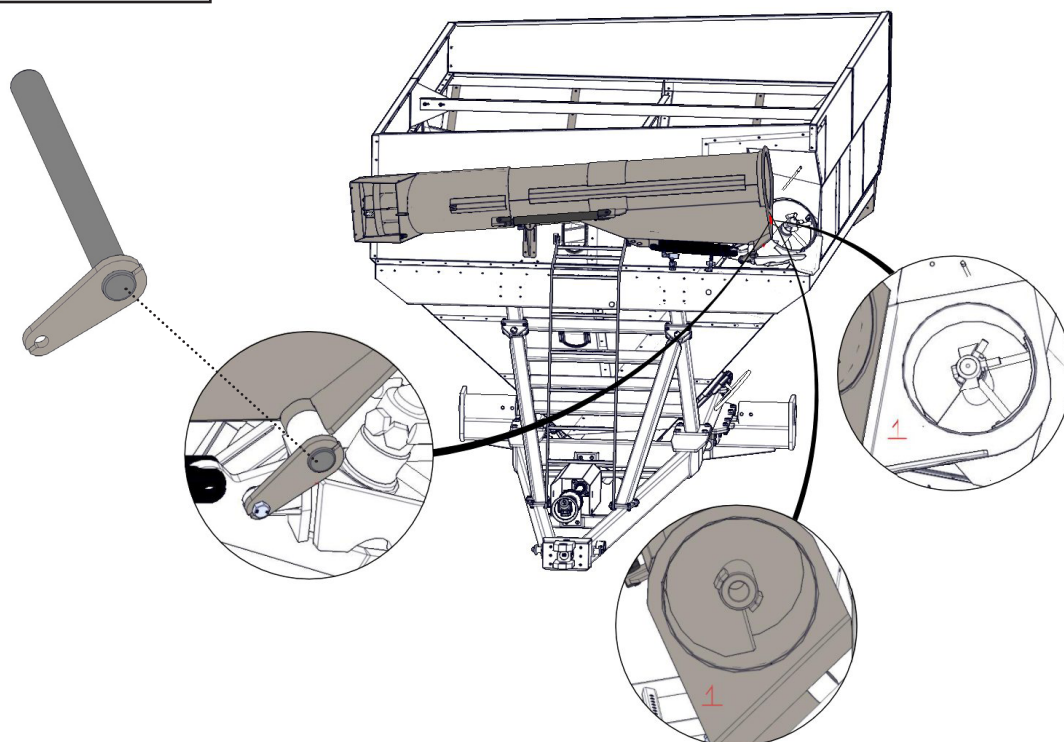
GC24T-1 GRAIN CART ASSEMBLY

STEP - 72



Install the adjustable auger rest pad. First install the adjustable auger bolt on rest plate. Use (4) M10 x 25 MM serrated hex head bolts and (4) M10 serrated hex flange nuts. Next attach the adjustable auger rest. Use (2) M10 x 40 MM, (2) M10 nylon washers, and (2) M10 serrated hex flange nuts. The washers go onto the slotted side.

STEP - 73

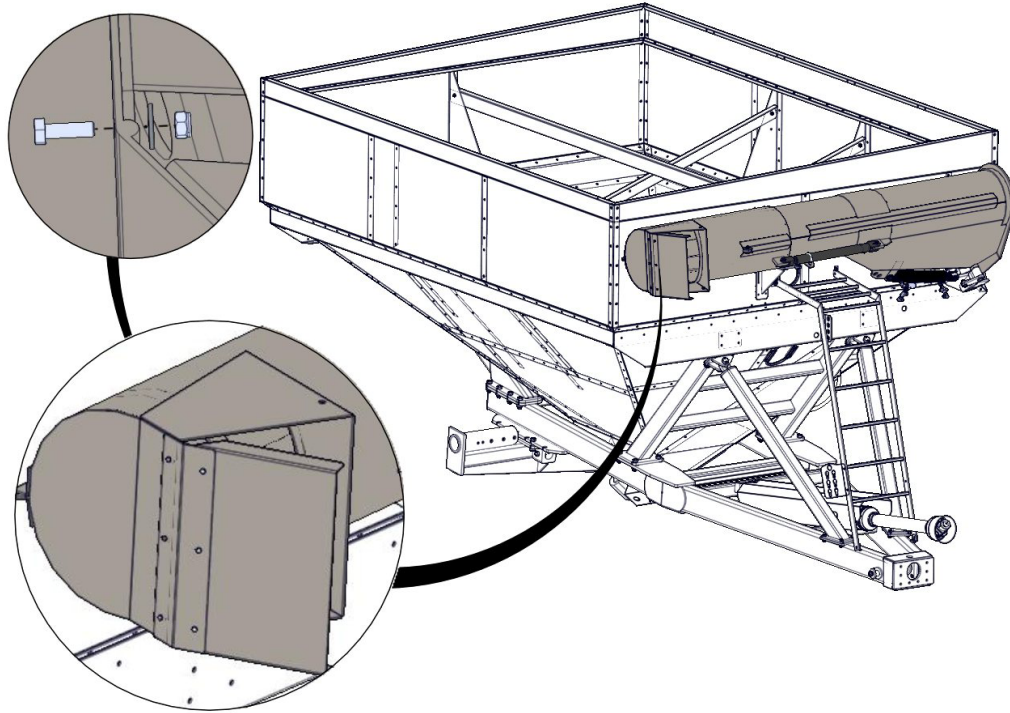


Adjust auger rest pad. Move the rest pad up or down until both circled points in the image above are touching the rest pad. Then drill through the shell in the remaining holes. Use (4) M10 x 40 hex bolts and (4) M10 nylon locking hex nuts.

Install the auger top tube assembly and pivot pin with 1/2" x 1-1/2" bolts, extra large washers and lock nuts. Be sure to match numbers that are welded on the hinge plates of both the bottom and top tub assemblies (if top tube has a 7 it goes with the bottom tube that has a 7).

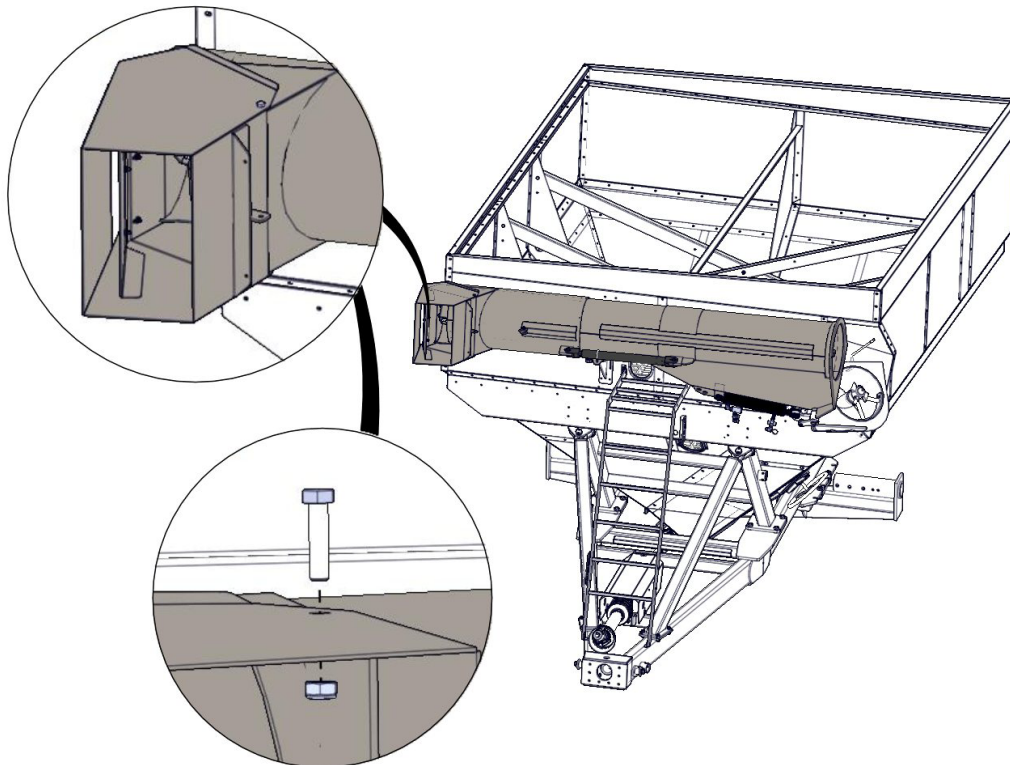
GC24T-1 GRAIN CART ASSEMBLY

STEP - 74



Install the baffle hinge. Use (6) M6 x 20MM bolts, locknuts, and washers.

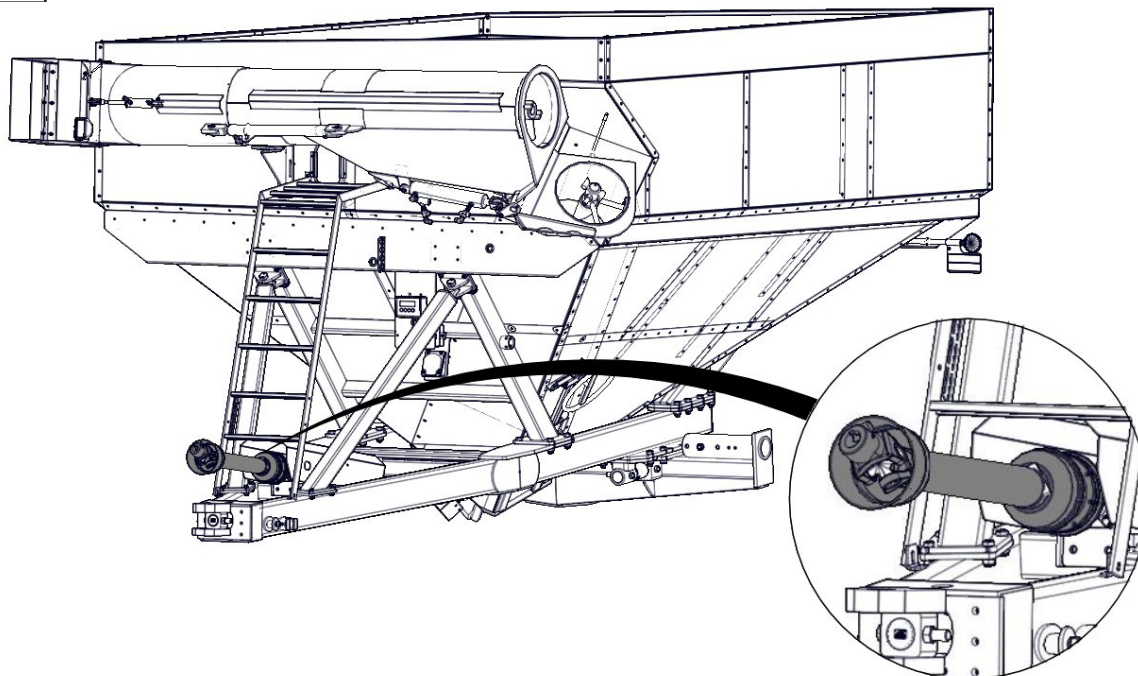
STEP - 75



Use an overhead hoist and chain to install the flow control spout assembly. Use M12 x 50MM bolts and hex locknuts. Do not overtighten. The flow control spout assembly needs to be able to pivot freely.

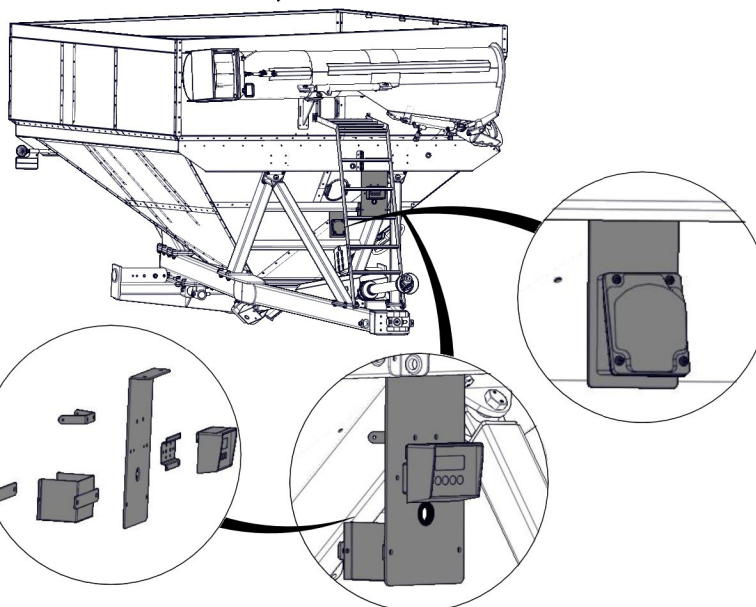
GC24T-1 GRAIN CART ASSEMBLY

STEP - 76



Install the PTO slip clutch assembly. The PTO shaft will need to be shortened depending on the distance between the tractor PTO shaft and the cart drive line shaft.

STEP - 77



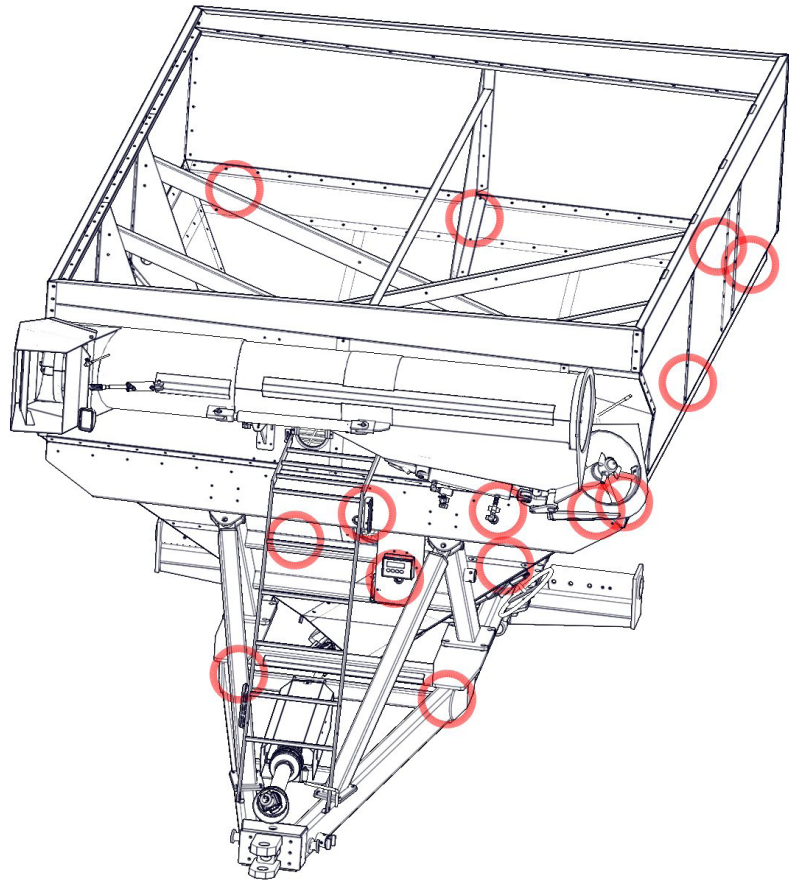
SCALE OPTION.....

Install the junction box and display screen mounts. Use (4) M10 x 25 MM bolts to mount them both. Install the battery box walls with (2) M10 x 25 Serrated hex head bolts and (2) M10 nylon locking nuts. Next install the battery box strap with (2) M10 x 50MM hex bolts and (2) nylon insert locknuts. Now install the scale monitor bracket with (2) M6 x 20MM hex head bolts and (2) M6 nylon locking nuts. Next attach the scale monitor using (2) M6 x 20MM hex head bolts and (2) M6 nylon locking nuts. Finish the battery box with attaching the chord wrap with (2) M10 x 25MM serrated hex head bolts and (2) M10 locking nuts. Next attach the junction box to the junction box mount using (4) M5 x 20 hex head bolts and (4) M5 locking nuts.

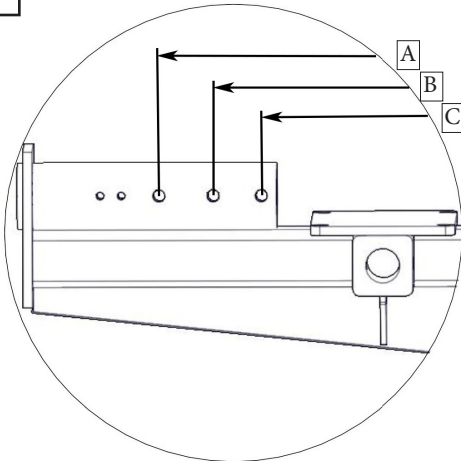
GC24T-1 GRAIN CART ASSEMBLY

STEP - 78

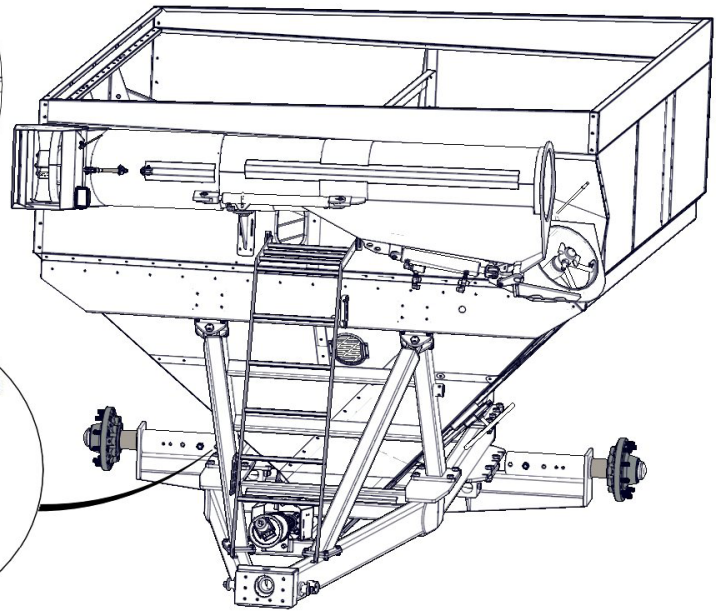
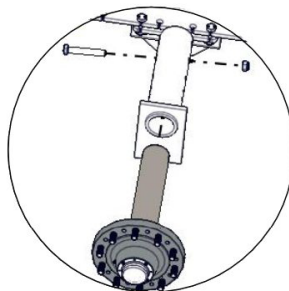
Install all of the rubber grommets. There is a small and a large size. Insert a rubber grommet where ever there is a red circle on the grain cart. If the grommet is too large, cut one slit into it and try again.



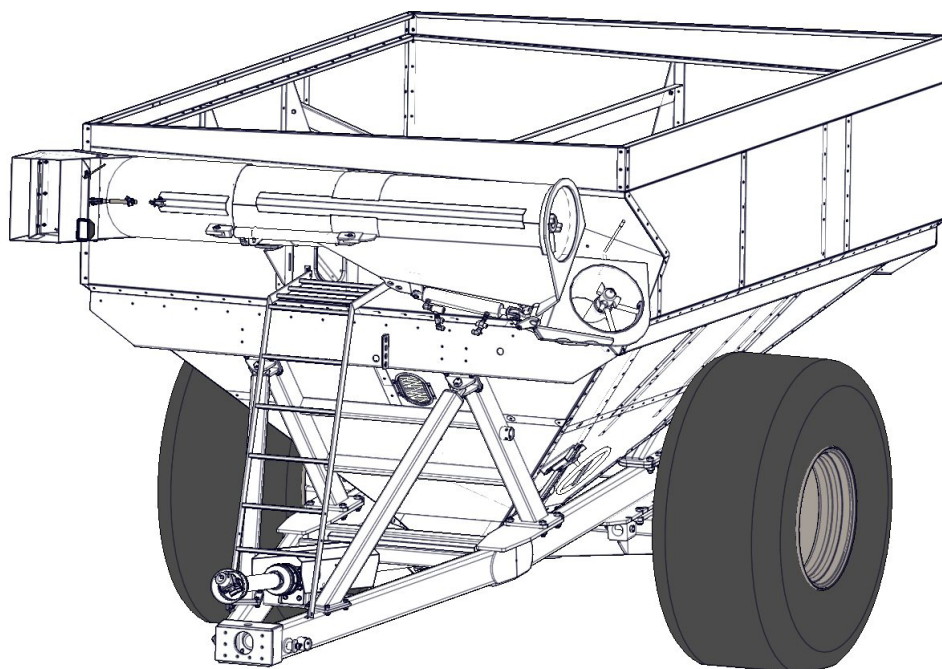
STEP - 79



- A Tire = 35.5 x 32, 900/60R32, 66 x 43
(3479.8mm) 137" On Center
- B Tire = 30.5 x 32
(3251.2mm) 128" On Center
- C Tire = 24.5 x 32
(3048mm) 120" On Center



Install the hubs and spindles with an 1" x 6 1/2" hex head bolt and 1" center locking hex nuts



Install the wheels and tires with 3/4" lug nuts. Be sure to tighten and monitor lug nuts to make sure that they are always tight.

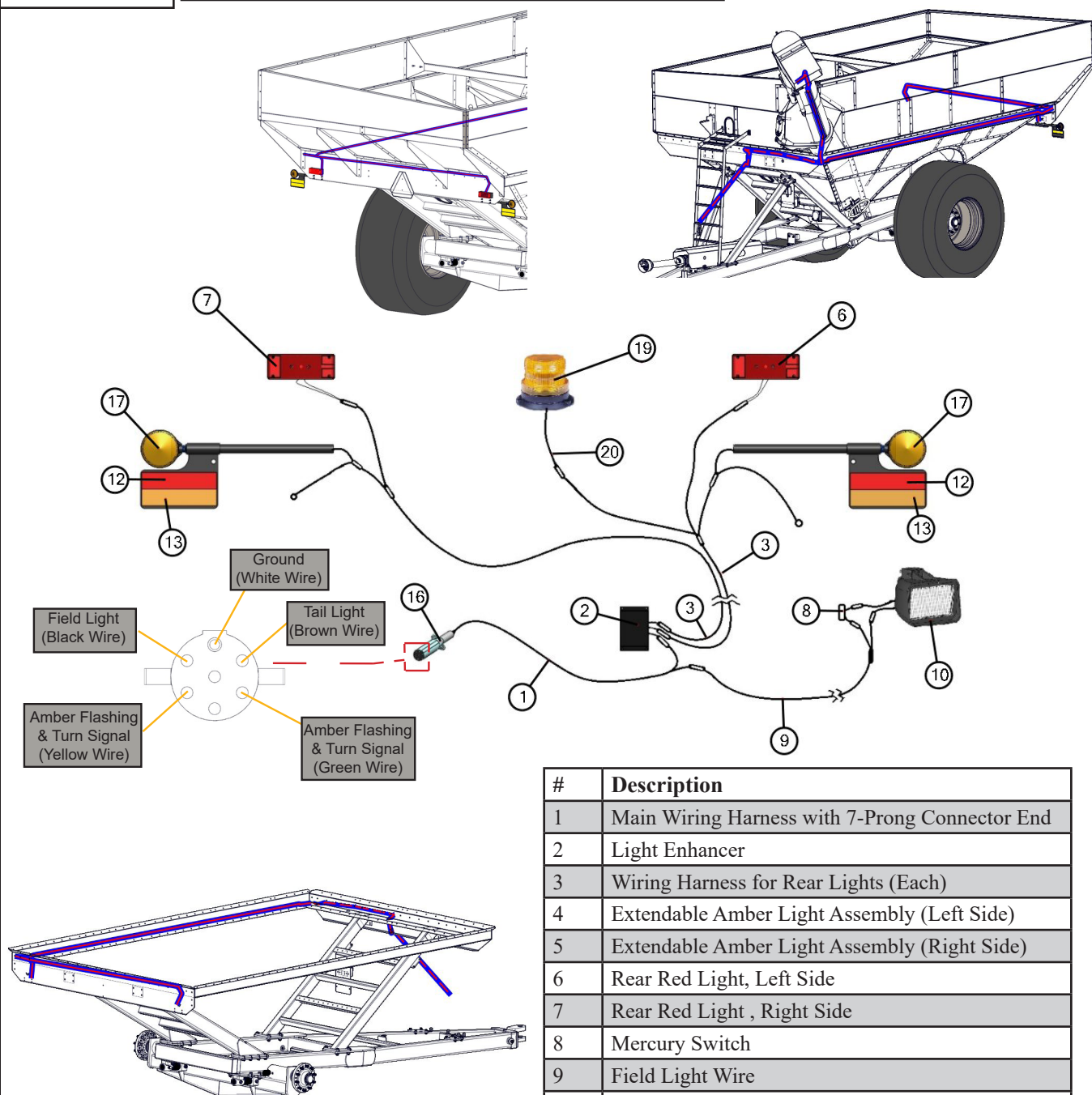
SEALING THE CART

For a complete sealed cart, use polyurethane or caulking around the seams between panels. It is recommended to prevent any water damage or leaking by using caulking or polyurethane over all seams between panels. Apply caulking to the outside of the cart.

GC24T-1 GRAIN CART ASSEMBLY

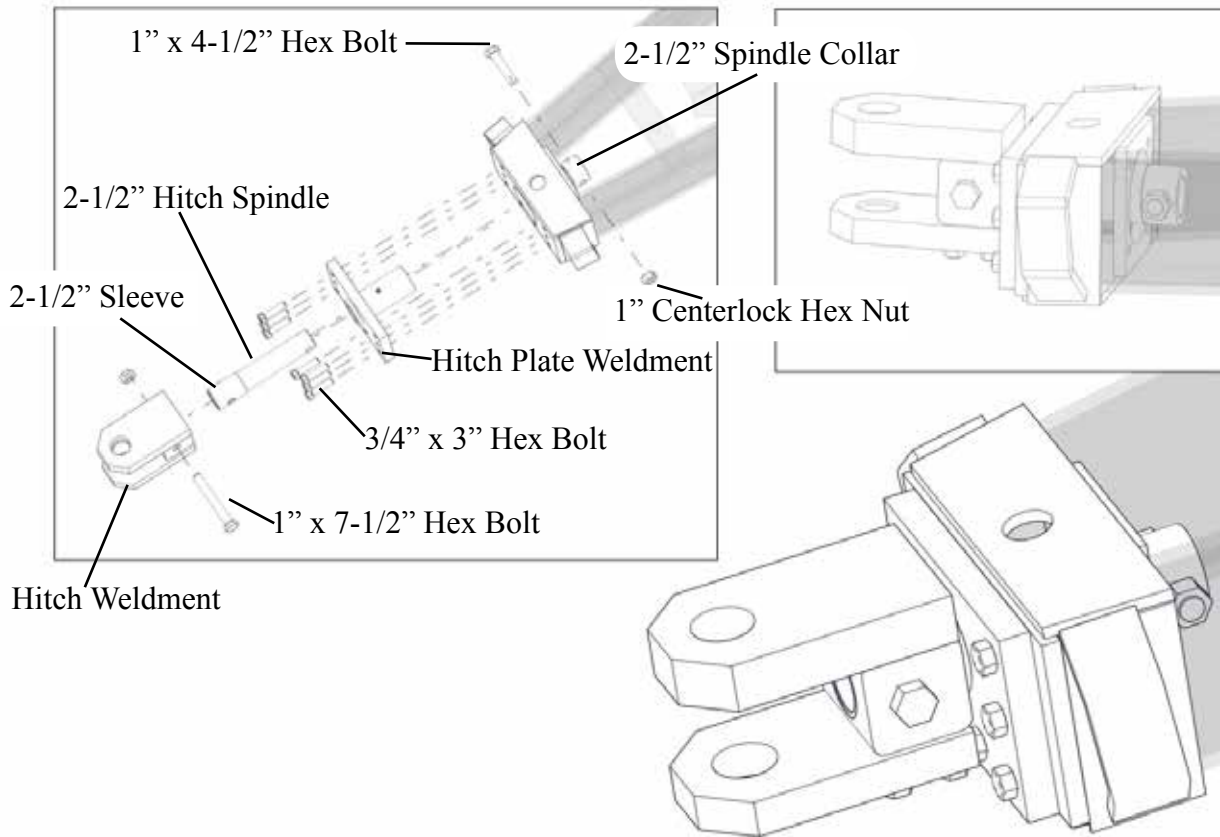
STEP - 81

*Right & Left determined by facing the rear of cart.



#	Description
1	Main Wiring Harness with 7-Prong Connector End
2	Light Enhancer
3	Wiring Harness for Rear Lights (Each)
4	Extendable Amber Light Assembly (Left Side)
5	Extendable Amber Light Assembly (Right Side)
6	Rear Red Light, Left Side
7	Rear Red Light , Right Side
8	Mercury Switch
9	Field Light Wire
10	Field Light Wire
11	Reflective Amber Decal
12	Reflective Red Decal
13	Reflective Orange Decal
14	Slow Moving Vehicle Emblem
15	Rubber Grommet
16	7-Prong Connector End Only
17	Amber Light Only
18	Neoprene Clamp
19	Orange Strobe Light
20	Strobe Light Wire

STEP - 82

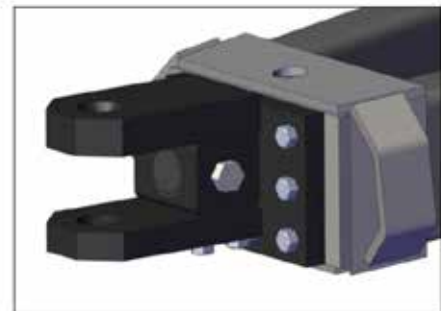
-Non-Scale Option-

Assemble the Hitch Spindle Sleeve and Hitch Weldment. Use a 1.0\" x 7-1/2\" Hex Bolt and a 1\" Centerlock Hex Nut to fasten the two together.

Next attach the Hitch plate Weldment to the grain cart's A - frame. Use (8) 3/4\"-16 x 3.0\" Hex Bolts to attach the weldment to the frame.

Now slide the Hitch Spindle through the Hitch Plate Weldment. Slide the Hitch Spindle Collar onto the Hitch Spindle Sleeve. Fasten the two together using a 1\" x 4-1/2\" Hex Bolt and a 1\" Centerlock Hex Nut. Fasten all of the hardware once finished.

***When ready for transport, the bolts on the Hitch Weldment need to be on the bottom side.**

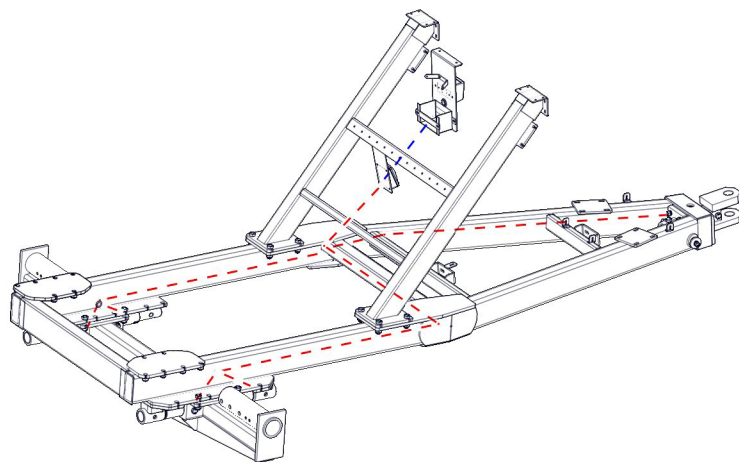
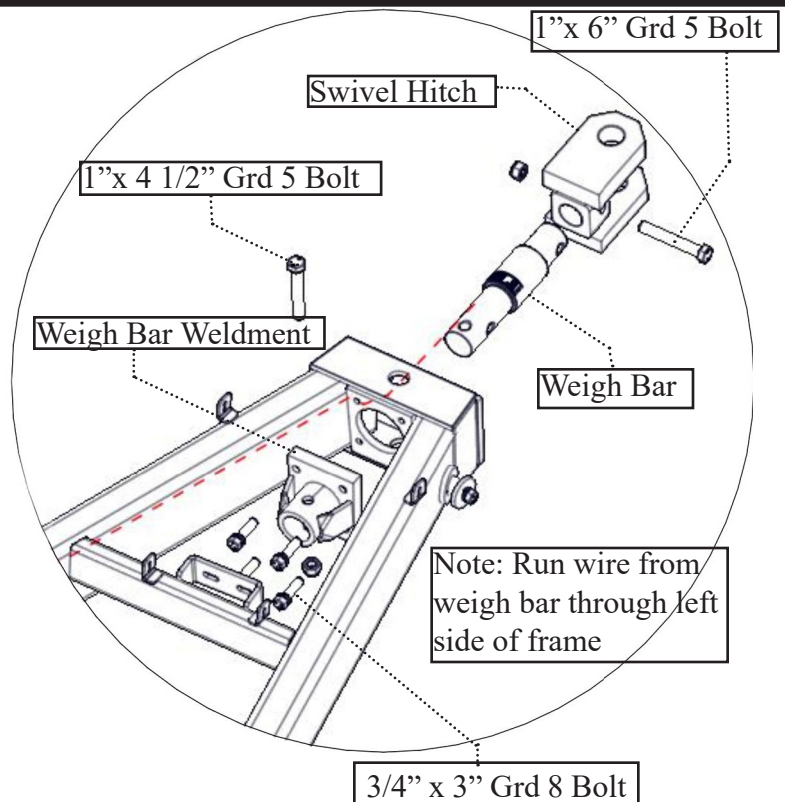


Feed the Weigh Bar wire through the left side of the A-frame, exiting out the grommet hole directly behind the front leg weldment.

Use 3/4" x 3" Gr 5 bolts to attach the Weigh Bar Weldment to the A-frame.

Carefully slide the Weigh Bar into the Weigh Bar Weldment and attach it with 1" x 4 1/2" Gr 5 Bolt and locknut. Do not damage Weigh Bar wire.

Attach Swivel Hitch with 1" x 5 1/2" Gr 5 Bolt and locknut to the Weigh Bar.



Feed wires from the right side weigh bars as shown, through adapter plate then through the frame.

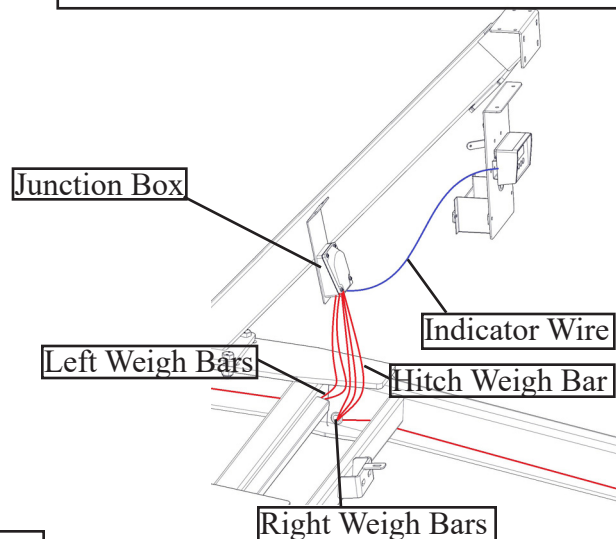
Feed wires from left side weigh bars as shown, through adapter plate, frame, then through the cross bar on the frame (as shown in diagram to the left).

Now all five wires should be ran to the left hole above the center cross brace in the A-frame.

On the Junction Box there are 7 connectors. The connector that is on the left side of the Junction Box needs to be plugged. To install untighten the connector, insert plug, then re-tighten.

Run indicator wire from back of the indicator to the front center connector of the junction box.

Run all five weigh bar wires to the Junction -Box. *See image on next page.

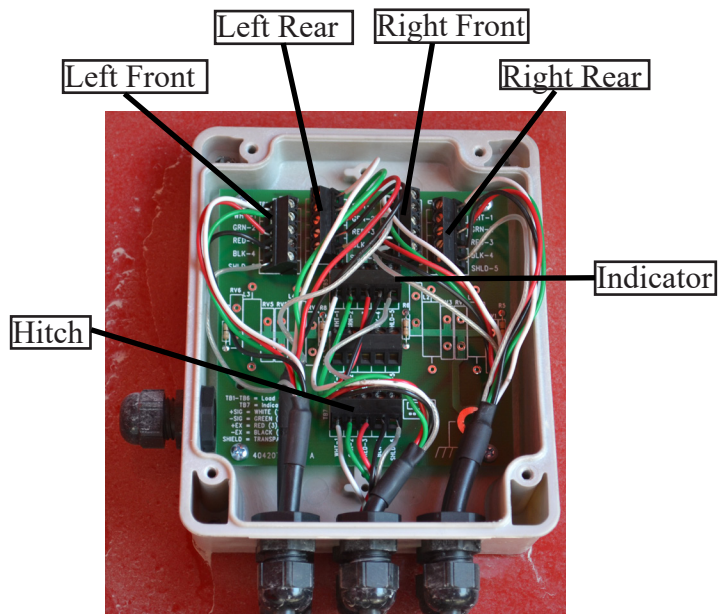
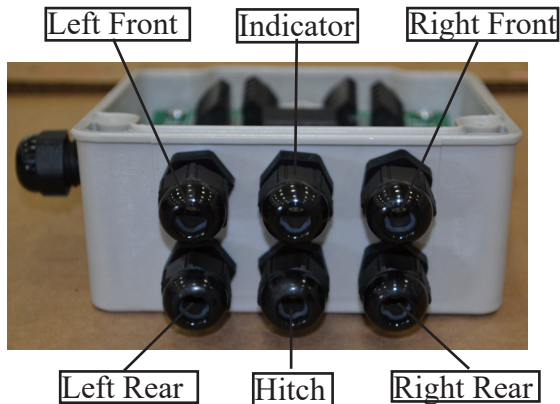


STEP - 83

-Scale Option-

*Right & Left determined by facing the rear of cart.

Junction Box



Insert all of the wires into the Junction Box according to the diagram above. Connect the wires to the terminal of the Junction Box by matching the colored wires.

Weigh-Tronix

Junction Box Wiring Diagram
 +Sig = White
 -Sig = Red
 +Exc = Green
 -Exc = Black
 Shield = Orange or Orange-White

Digi-Star

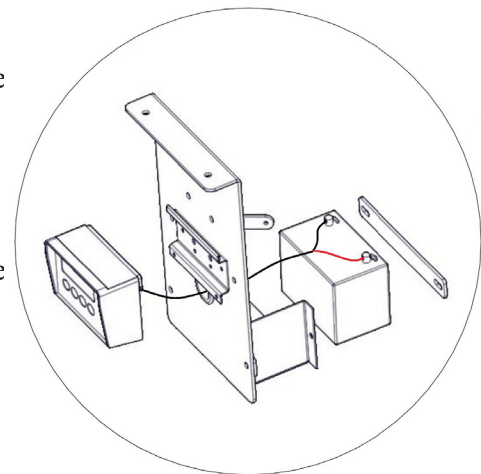
Junction Box Wiring Diagram
 +Sig = White
 -Sig = Green
 +Exc = Red
 -Exc = Black
 Shield = Orange

Once finished replace the cover of the Junction Box.

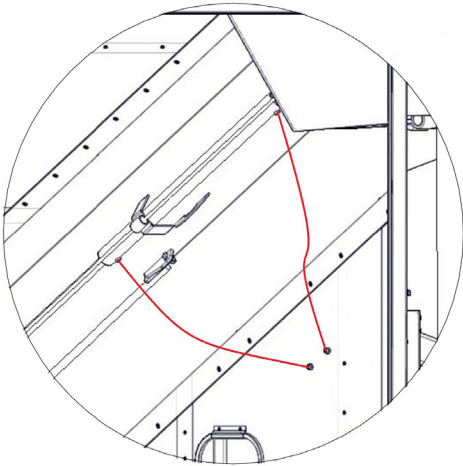
Attach the cord wrap around the wires running from the frame to the Junction Box.

Attach the cord wraps for all four rear weigh bars.

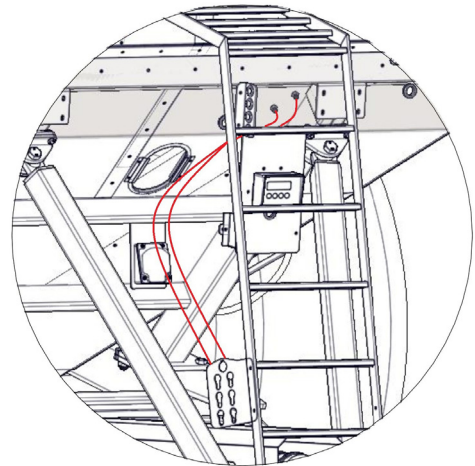
Connect the display screen to the battery. The red wire is to be run to the positive side (+) and the black wire is to be run to the negative side (-).



STEP - 84



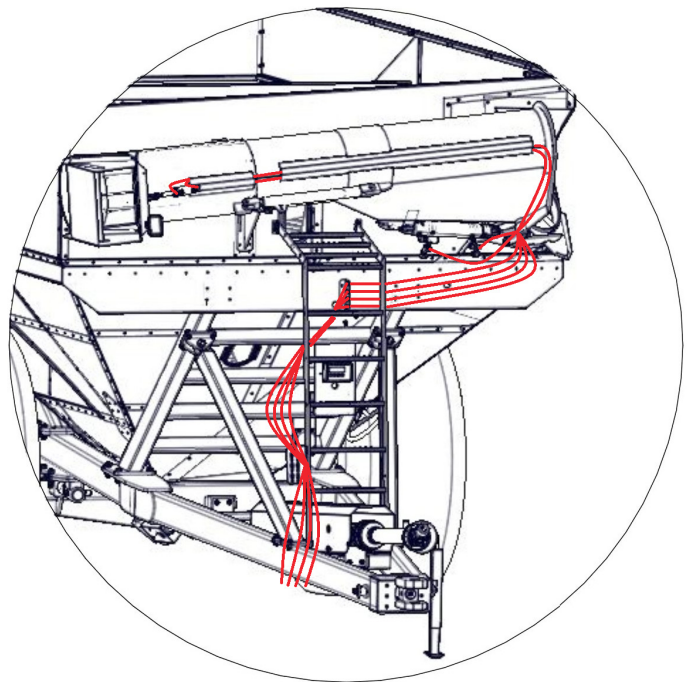
Install two 1/4" x 29" (736.6mm) hydraulic hoses for the shut off gate cylinder to the shell bulkhead couplings.



Install two 1/4" x 160" (4,064mm) hydraulic hoses for the shut off gate cylinder to the shell bulkhead couplings to the tractor.

STEP - 85

Install two hoses for the fold cylinder. One is a 1/4" x 206" and the other is 1/4" x 222." Install two hoses for the tip spout. One is a 1/4" x 330" and the other is 1/4" x 328."



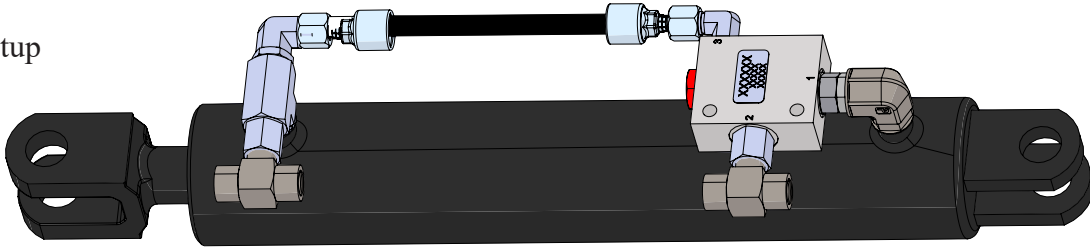
STEP - 86

HYDRAULIC CYLINDER ASSEMBLY

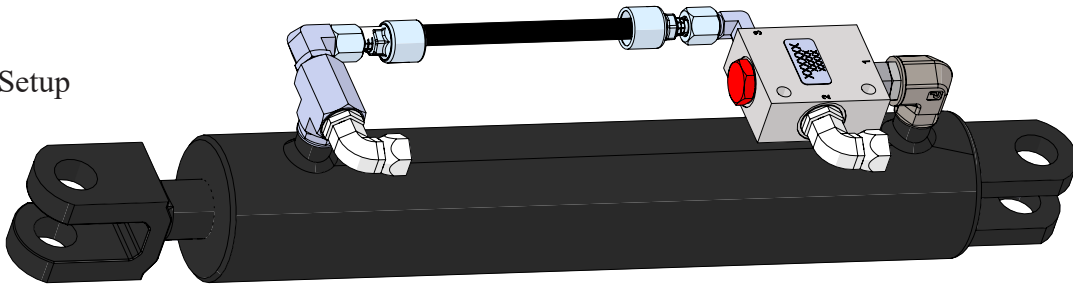
(To raise and lower the upper auger)

Please see the operators manual for the fittings and hose lengths names.

Slider Setup

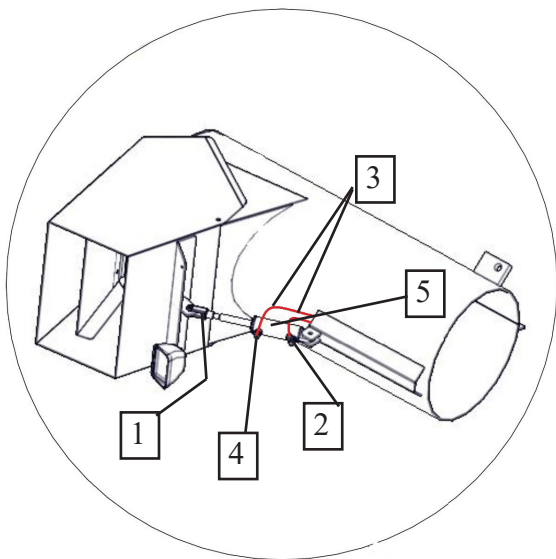


Standard Setup



STEP - 87

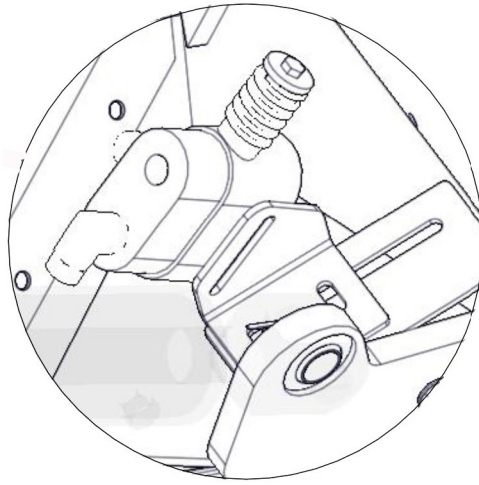
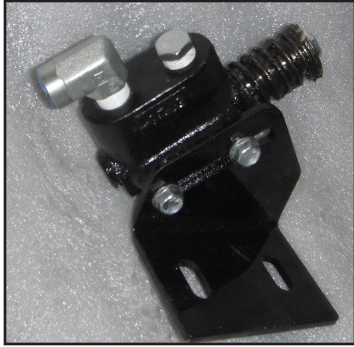
HYDRAULIC DRIVEN FLOW CONTROL SPOUT



#	Description
1	1/2" X 1 1/2" Clevis pin w/ cotter pin
2	1/4" St. elbow
3	1/4" x 28' (8534mm) Hydraulic hose
	1/4" x 30' (9144mm) for Slider Option
4	1/4" Swivel restrictor
5	Hydraulic cylinder w/ clevis end

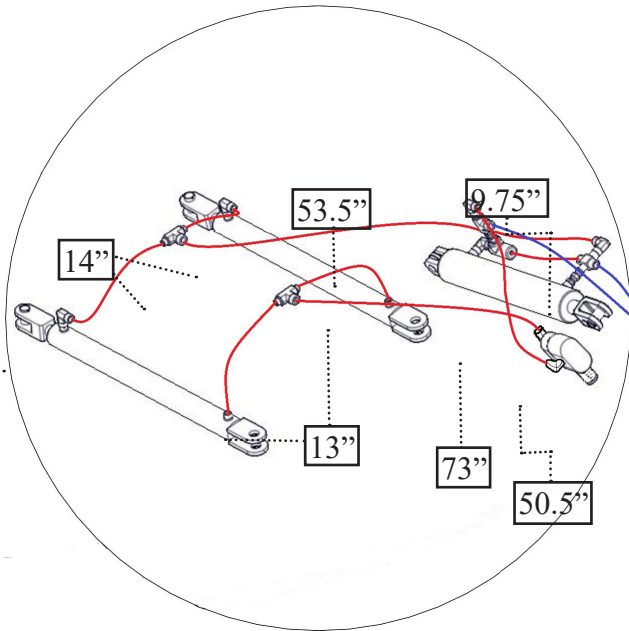
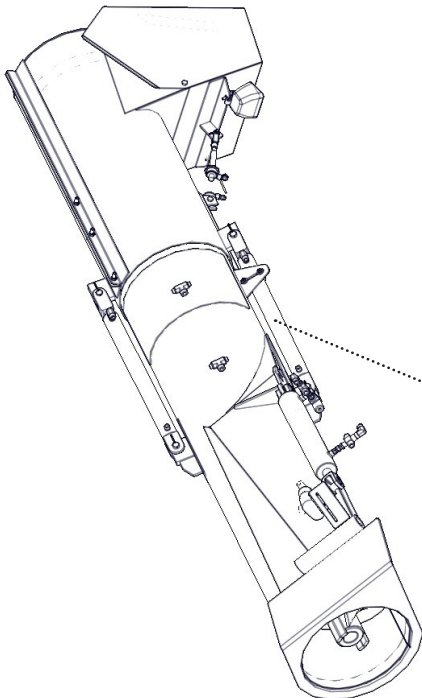


STEP - 88

-Slider Option-

For the slider option the diverter valve will need to be installed. Bolt the diverter valve in place using (2) M10 serrated hex bolt and (2) M10 serrated hex head nuts. The valve will need to be positioned so that when the auger “lands” on the auger rest, the valve should engage and the slider tube should begin to retract in to its shortest position.

STEP - 88

-Slider Option-

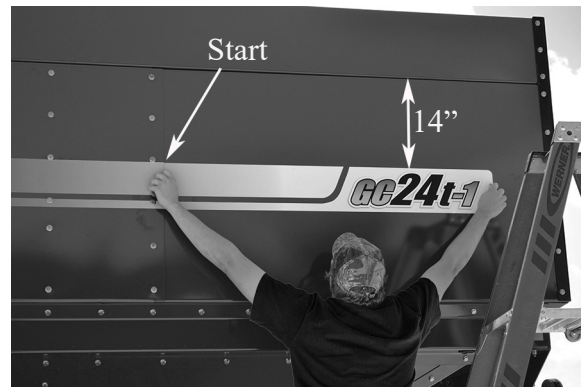
Install all of the hoses for the slider option. Install hoses accordingly to the image above. **The first time you run the auger, run it up slowly and adjust your hoses accordingly. The hoses will pull tight and you will have to give them more slack. This is just for the first time the auger is extended.**

GC24T-1 GRAIN CART ASSEMBLY

STEP - 89



Decal 1 of 3 Measure 14" from seam. Start at rear end of Top AS Front Panel.



Decal 3 of 3 Measure 14" from seam. Start at the rear end of decal 2.



Made in USA decal. Center in between decal 1 and top of AS rail. Start at edge of J&M decal then work to the right.



Rear J&M decal and website decal. Measure 14" from seam and 9 3/4" from corner. Place website decal 2" below J&M decal.



Decal 2 of 3 Measure 14" from seam. Start at the end of Decal 1 and work towards the rear.

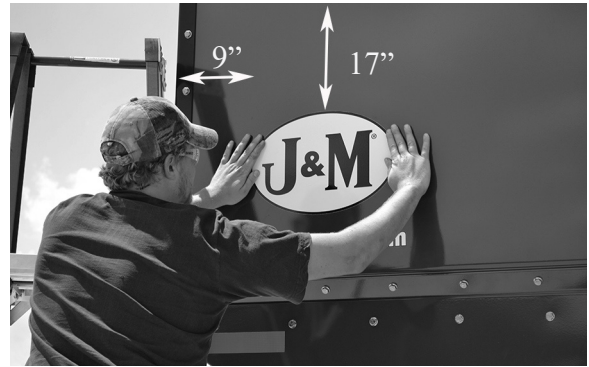


Decal 1 of 3 Measure 14" from seam. Start at end of Top OAS Front Panel.

STEP - 89



Made in USA decal. Center in between decal 1 and top of AS rail. Start at edge of J&M decal then work to the right.



Rear J&M decal and website decal. Measure 17" from seam and 9" from corner. Place website decal 2" below J&M decal.



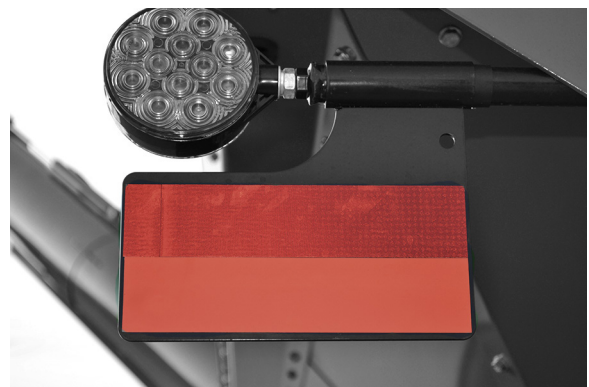
Decal 2 of 3 Measure 14" from seam. Start at the end of decal 1 and work towards the rear.



Front of Light Assembly towards rear of cart. (yellow decals)



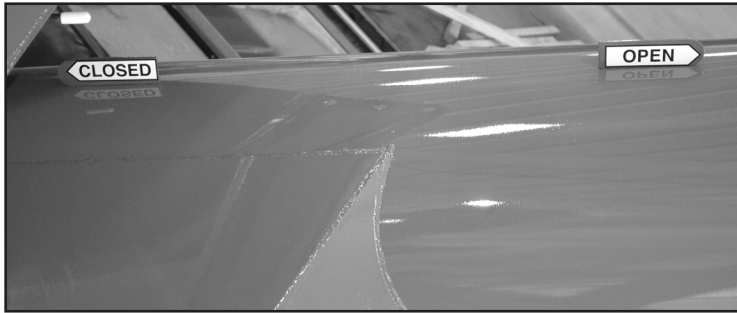
Decal 3 of 3 Measure 14" from seam. Start at the end of decal 2.



Back of Light Assembly towards rear of cart (red and orange decals)

GC24T-1 GRAIN CART ASSEMBLY

STEP - 89



The remaining yellow stickers are to be placed in the four corners along the top edge of the rails.