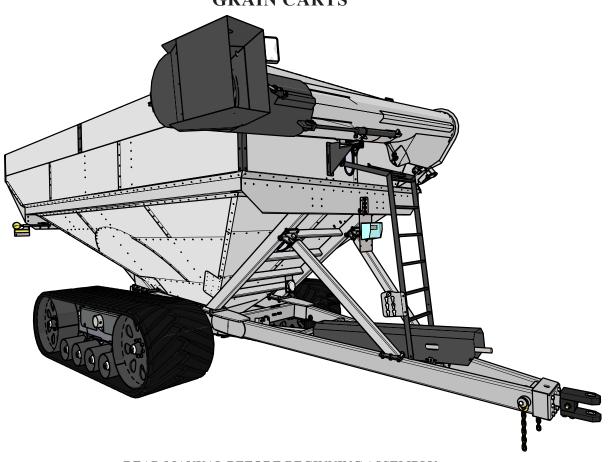


International

GRAIN CART ASSEMBLY MANUAL

MODEL GC31t-1

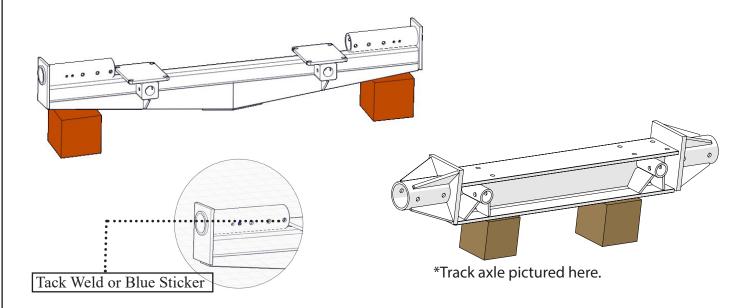
PATENTED SINGLE AUGER GRAIN CARTS



READ MANUAL BEFORE BEGINNING ASSEMBLY

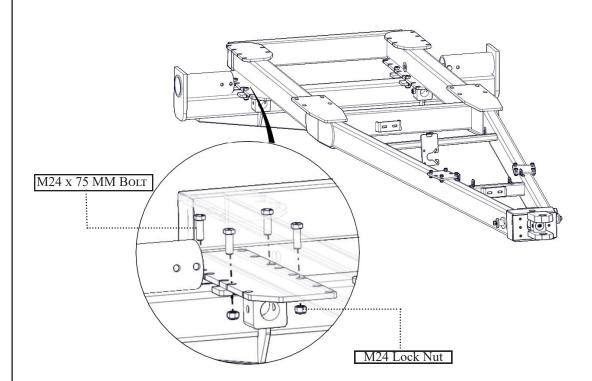
J&M Manufacturing Co, Inc

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.

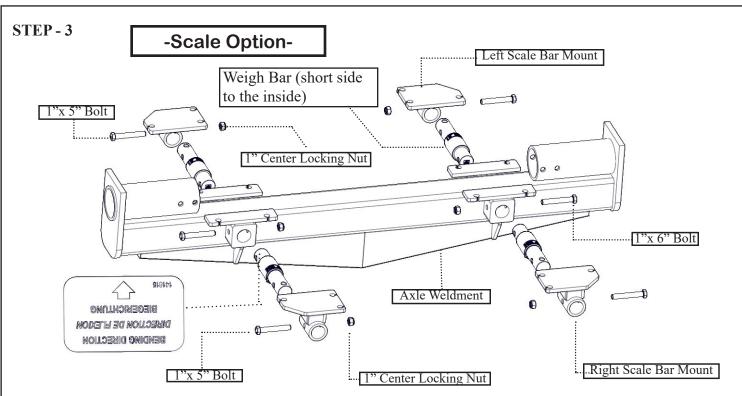


For stability set the axle weldment up on blocks using an overhead hoist and chain. The blue sticker or tack welds on the axle should face the front. For the axle and frame scale option installation instructions go to steps 3 & 4.

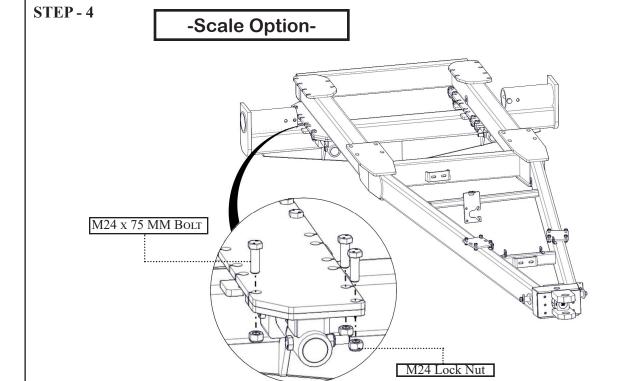
STEP - 2



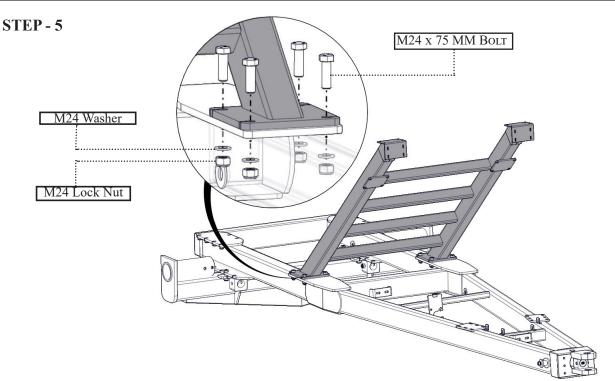
Attach the main frame. Set the rear end onto the axle and the front end onto another block. Use (8) M24 x 75MM and (8) M24 nylon locking hex nuts to fasten main frame to the axle.



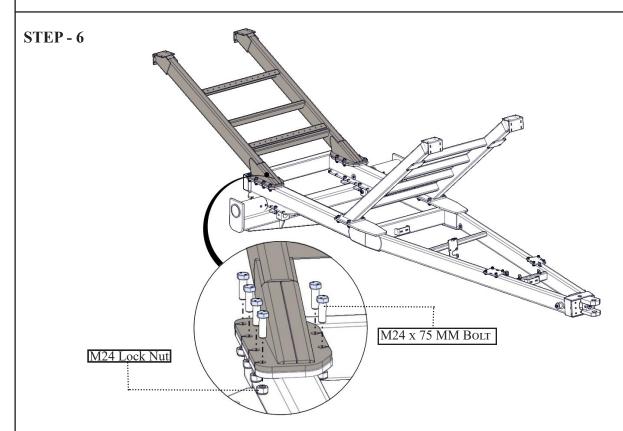
Set the axle weldment up on blocks. Insert four digistar weigh bars. Use 1" x 6" bolts to attach weigh bars to axle weldment. **Make sure that the arrows on all of the weigh bars are pointing up**. Attach the scale bar mounts to the weigh bars using 1" x 5" bolts. Be sure to use correct scale bar mounts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



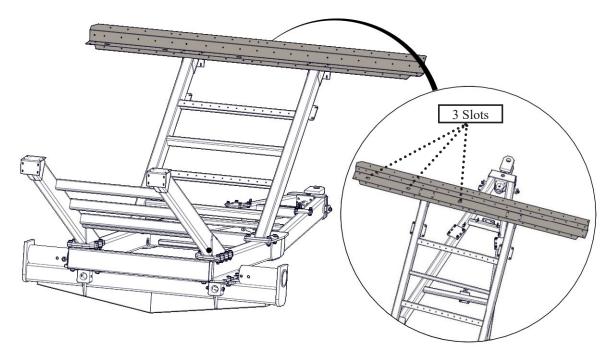
Set the main frame onto the scale axle using an overhead hoist. Use a drift pin to line up the holes then attach using (12) M24 x 75 MM hex cap screw bolts and (12) M24 nylon locking hex nuts. Make sure scale wires are not in a position where they will be cut or smashed.



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.**

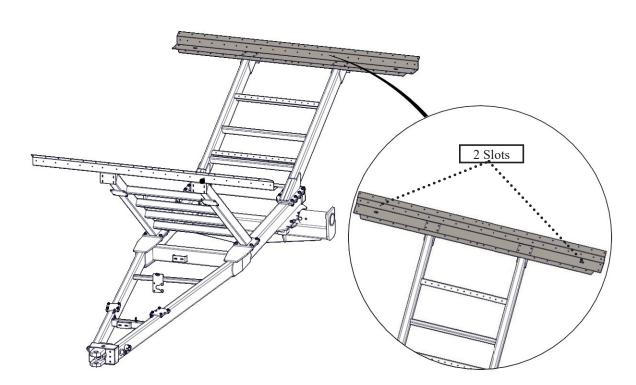


Place the rear leg onto the main frame using an overhead hoist. Use a drift pin to help line up the holes. Attach the rear leg with (12) M24 x 75MM hex head bolts and (12) M24 nylon locking nuts. The plate from the main frame then gets squared with the plate from the rear leg. Tighten bolts.

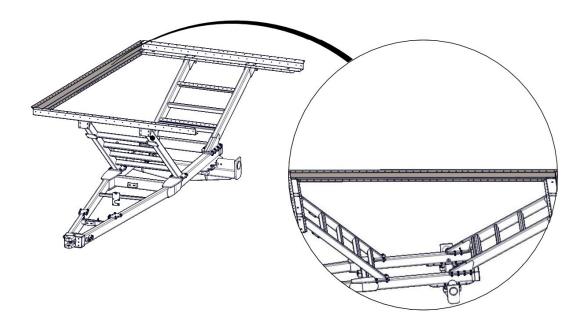


Attach the front rail. Use (8) M10 serrated flange bolts and (8) M10 serrated flange hex head nuts to attach the front rail to the front leg.

STEP-8

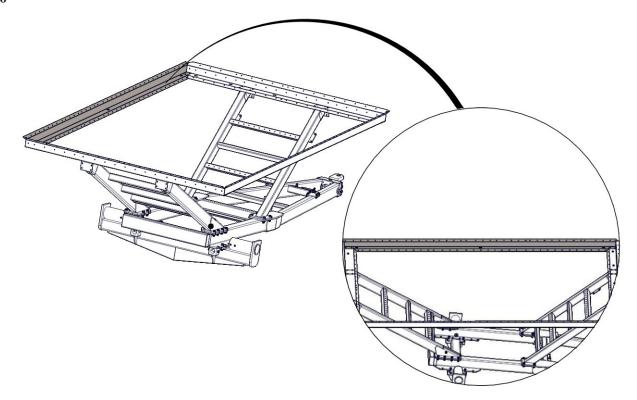


Attach the rear rail. Use (8) M10 serrated flange bolts and (8) M10 serrated flange hex head nuts to attach the rear rail to the rear leg.

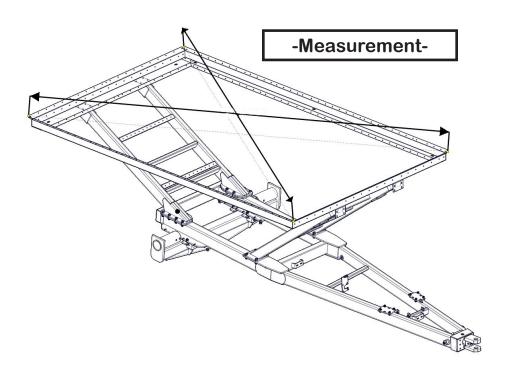


Attach opposite auger side rail (OAS). Use (4) M10 serrated flange nuts and (4) M10 serrated flange hex head nuts to attach the OAS to the front and rear rail.

STEP - 10

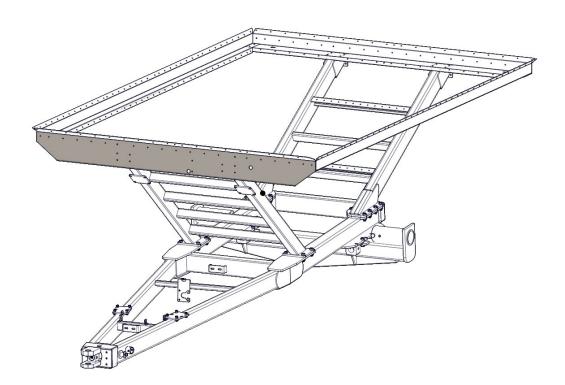


Attach Auger Side (AS) Rail. Use (4) M10 serrated flange nuts and (4) M10 serrated flange hex head nuts to attach the AS rail to the front and rear rails.

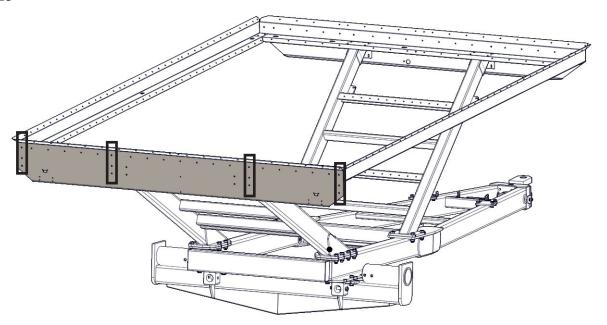


Measure from corner to corner on the rails. Reposition the front leg to get the measurements to be within 1/8" - 1-4" (3mm-6mm) of each other. Once completed, tighten all bolts to ensure that the structure remains square. (Do not tighten bolts on the front leg.)

STEP - 12

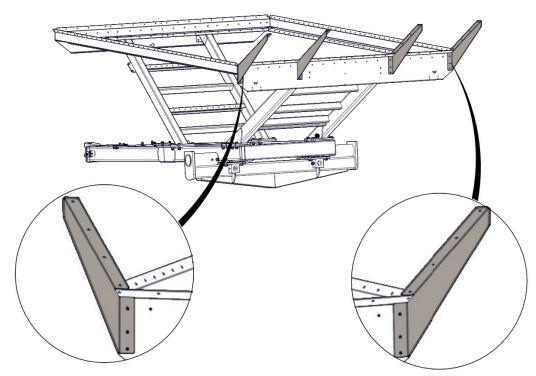


Attach front rail cross brace. Use $(29) \, M10$ serrated flange hex head bolts and $(29) \, M10$ serrated hex flange nuts.



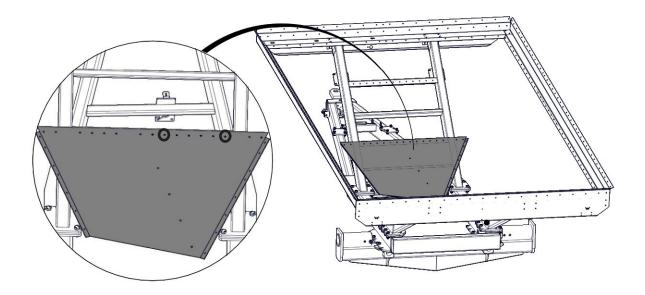
Attach rear rail cross brace. Use (21) M10 serrated flange hex head bolts and (21) M10 serrated hex flange nuts. Do **NOT** insert bolts into holes that are surrounded by squares in the figure above.

STEP - 14



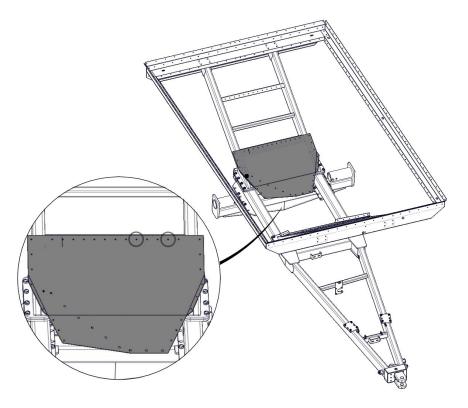
Attach the two AS Slope Gussets and two OAS Slope Gussets using (12) $8.8\,M10\,x\,25\,MM$ serrated flange hex head bolt and M10 serrated flange hex head nuts.

!STOP! It is important to have all bolts and nuts tightened at this point. In the next steps, it will become hard to access some of the bolts.

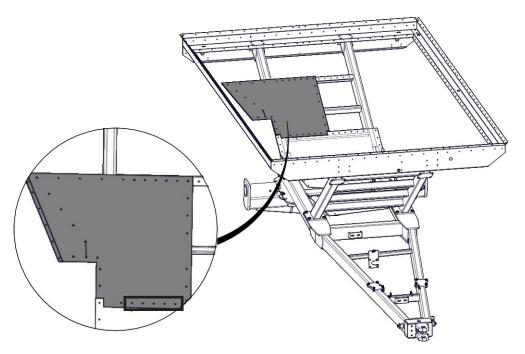


Attach the front lower panel to the front leg as shown. Use (2) temporary M10 serrated flange bolts to hold the front lower panel in place. Insert bolts into the two holes that are circled.

STEP - 16

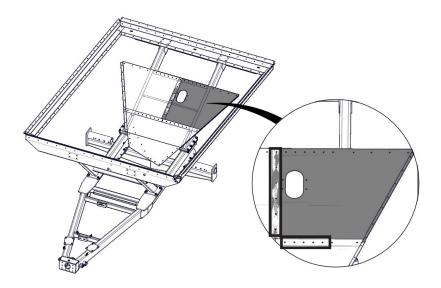


Attach the rear bottom panel to the rear leg as shown. Use (2) temporary M10 serrated flange bolts to hold the rear bottom panel into place.

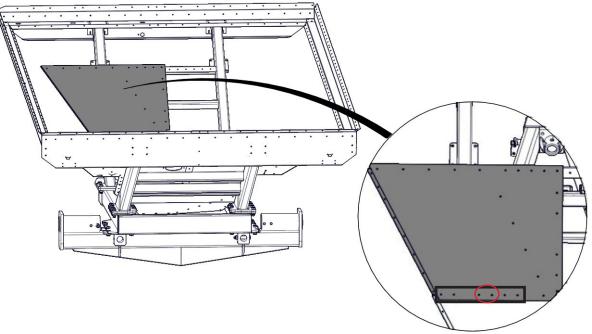


Attach the OAS lower middle panel. Use (5) 8.8 M10 x 25 MM serrated flange hex head bolts and (5) M10 serrated flange hex head nuts to attach the OAS lower middle panel. **Only insert hardware into the holes that are inside the outlined area in the figure above.**

STEP - 18

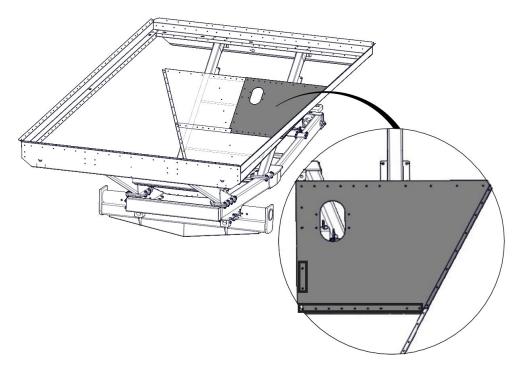


Attach the AS lower middle panel. Remove the 2 temporary bolts and use (10) 8.8 M10 x 25 MM serrated flange hex head bolts and (10)M10 serrated flange hex head nuts to attach the AS lower middle panel. Only insert hardware into the holes that are inside the outlined area in the figure above.

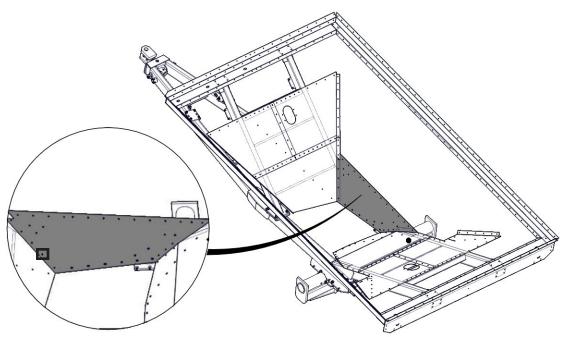


Attach the front AS lower middle panel. Use (6) 8.8 M10 x 25 MM serrated flange hex head bolts and (6) M10 serrated flange hex head nuts. **Only insert hardware into the holes that are inside the outlined area in the figure above.** For the scale option leave out hardware that is inside of the circle.

STEP - 20

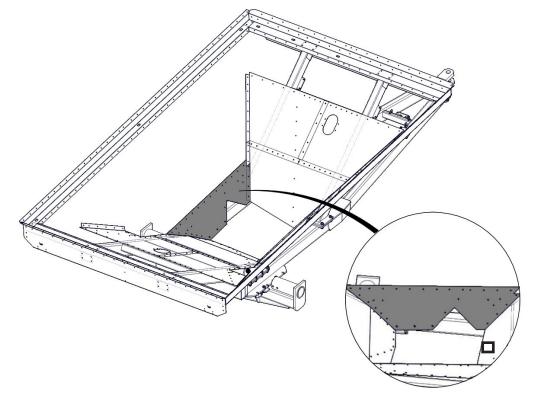


Attach the front OAS lower middle panel. Remove the two temporary bolts and use (11) 8.8 M10 x 25 MM serrated flange hex head bolts and (11)M10 serrated flange hex head nuts. Only insert hardware into the holes that are inside the outlined area in the figure above.



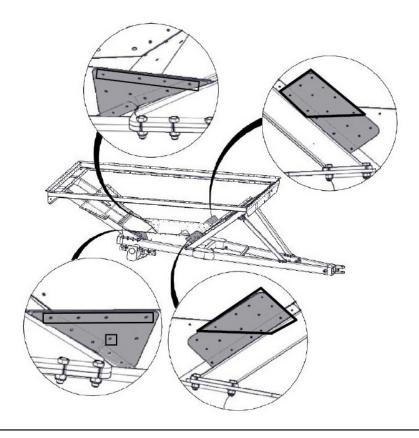
Attach the OAS bottom panel. Use (1) 8.8 M10 x 25 MM serrated flange hex head bolts and (1)M10 serrated flange hex head nuts to attach the OAS bottom panel. Insert the hardware into the hole that is highlighted in the outlined area in the above figure.

STEP - 22

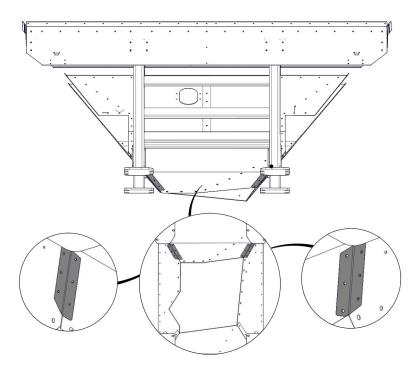


Attach the OAS bottom panel. Use (1) 8.8 M10 x 25 MM serrated flange hex head bolt and (1) M10 serrated flange hex head nut to attach the OAS bottom panel. Insert the hardware into the hole that is highlighted in the outlined area in the figure above. If the front bottom panels have any sag in them, move your front legs forward. Once finished tighten the front leg.

Attach the Front and Rear Tank Reinforcements. Use (26) M10 x 25 MM serrated flange hex head bolts and (26) M10 serrated flange hex head nuts to attach the Front and Rear Tank Reinforcements. **Do Not** insert bolts that are highlighted in the outlined area.

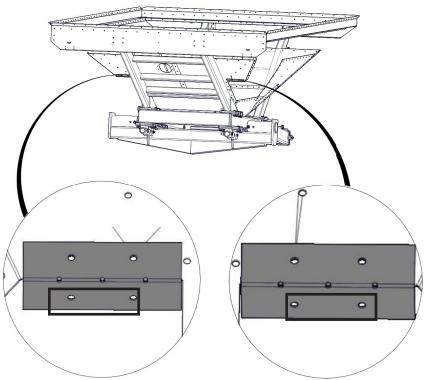


STEP - 24



Attach the Bottom Panel Corners. Use (12) 8.8 M10 x 25 MM serrated flange hex head bolts and (12) M10 serrated flange hex head nuts to install the Bottom Panel Corners.

STEP - 25
*Skip this step if you have Tracks.

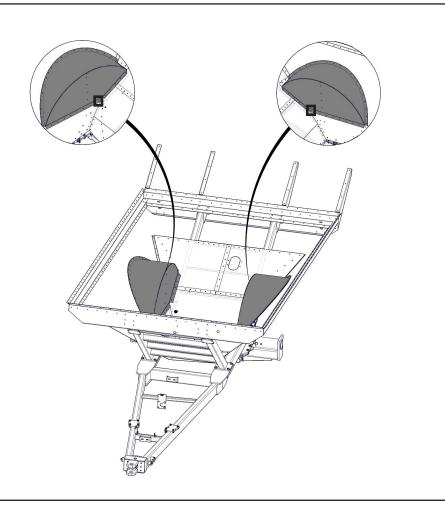


Attach the Wheel Well Corners. Use (4) 8.8 M10 x 25 MM serrated flange hex head bolts and (4) M10 serrated flange hex head nuts. **Do NOT** insert hardware into the holes that are inside of the outlines in the figure above.

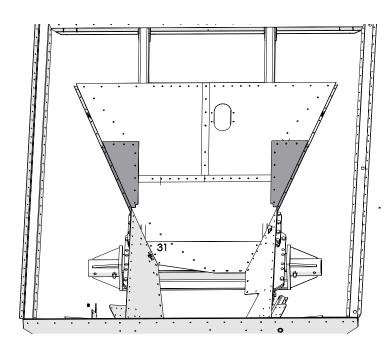
STEP - 26

*Skip this step if you have Tracks.

Attach the AS and OAS
Wheel Wells. For the OAS
Wheel Well use (16) 8.8 M10
x 25 MM serrated flange
hex head bolts and (16)M10
serrated flange hex head nuts
for installation. **Do Not** insert
hardware into the outlined
area. For the AS Wheel Well
use (17) 8.8 M10 x 25 MM
serrated flange hex head bolts
and (17)M10 serrated flange
hex head nuts for installation.

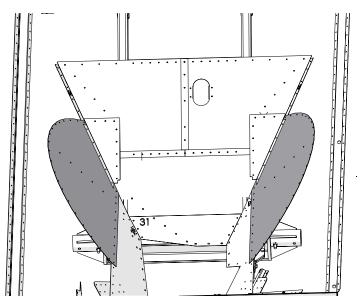


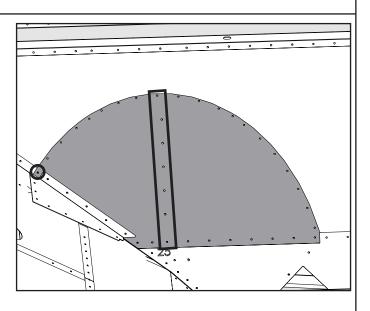
STEP - 25 *Skip this step if you have Tires.



Attach the Track Wheel Well Triangles. Use (8) 8.8 M10 x 25 MM serrated flange hex head bolts and (8) M10 serrated flange hex head nuts.

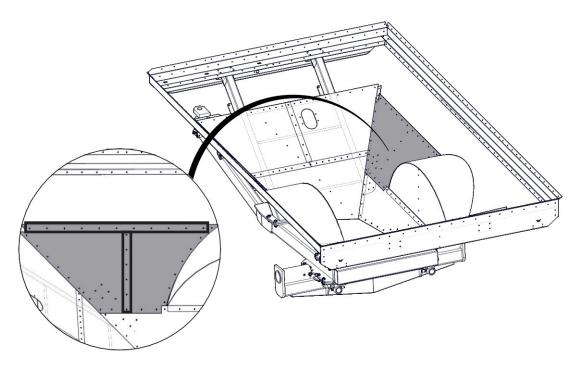
STEP - 26
*Skip this step if you have Tires.





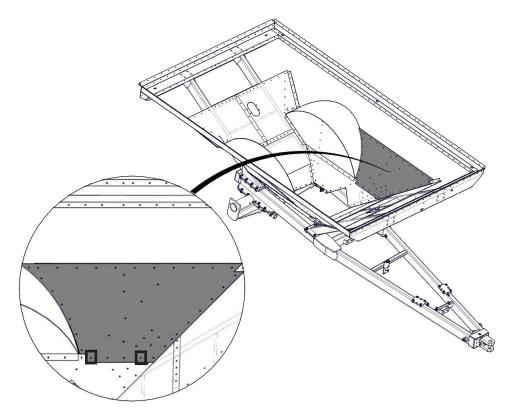
Attach the Track Wheel Wells. Use (14) 8.8 M10 x 25 MM serrated flange hex head bolts and (14) M10 serrated flange hex head nuts. **Do NOT** insert hardware into the holes that are inside of the outlines in the figure above.

(J&M)

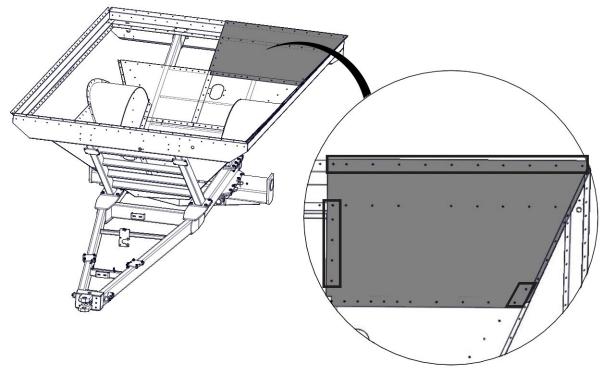


Attach the OAS Front Lower Middle Panel. Use (24) 8.8 M10 x 25 MM serrated flange hex head bolts and (24) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the holes that are inside of the outlined area in the figure above.

STEP - 28

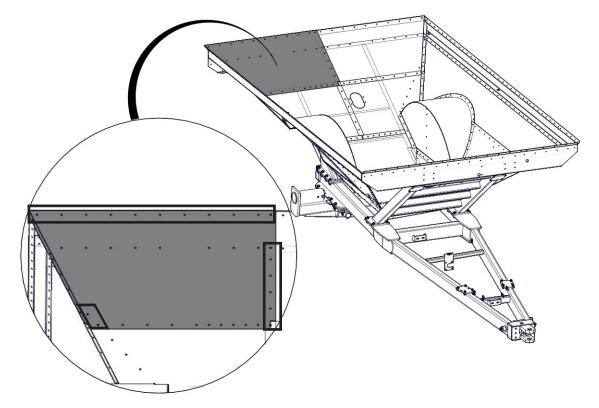


Attach the AS Front Lower Middle Panel. Use (23) 8.8 M10 x 25 MM serrated flange hex head bolts and (23) M10 serrated flange hex head nuts for installation. **Do Not** insert hardware into the holes that are inside of the outlined area in the figure above.



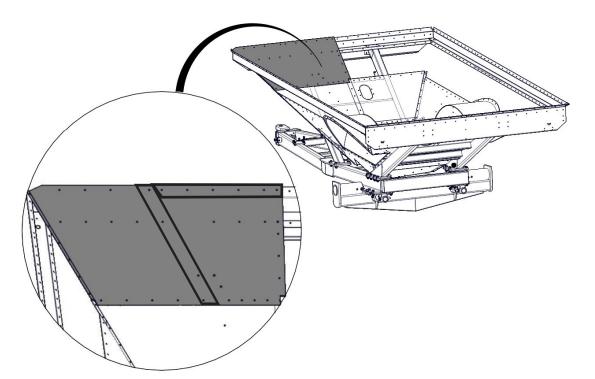
Attach the Rear AS Lower Middle Panel. Use (17) 8.8 M10 x 25 MM serrated flange hex head bolts and (17) M10 serrated flange hex head nuts for installation. **Do Not** insert hardware into the outlined area in the figure above.

STEP - 30



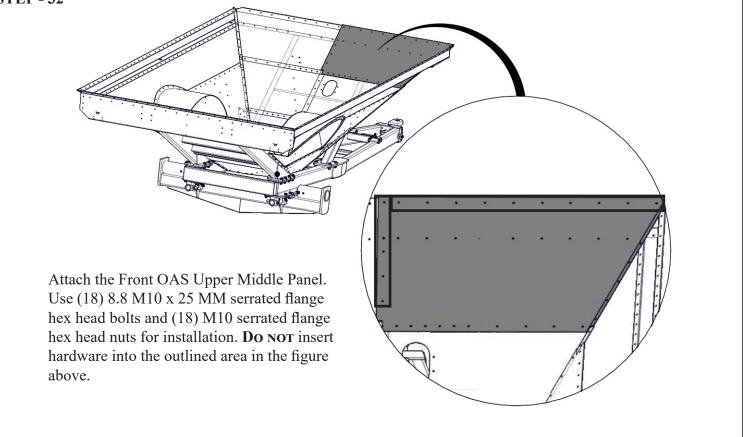
Attach the Rear OAS Lower Middle Panel. Use (17) 8.8 M10 x 25 MM serrated flange hex head bolts and (17) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

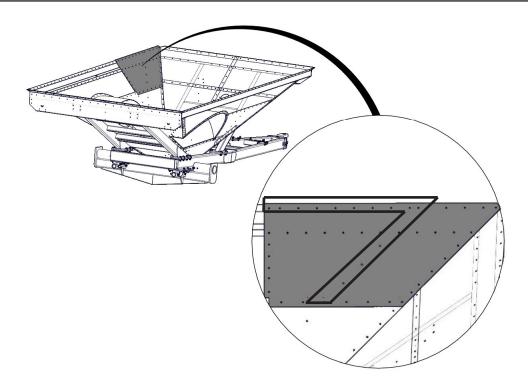




Attach the Front AS Upper Middle Panel. Use (18) 8.8 M10 x 25 MM serrated flange hex head bolts and (18) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

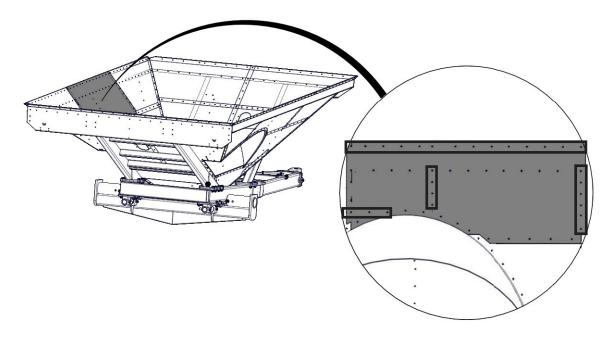




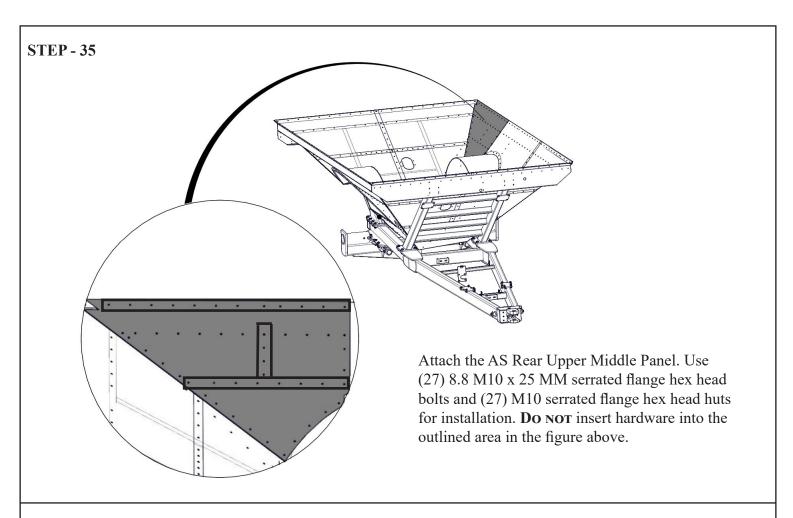


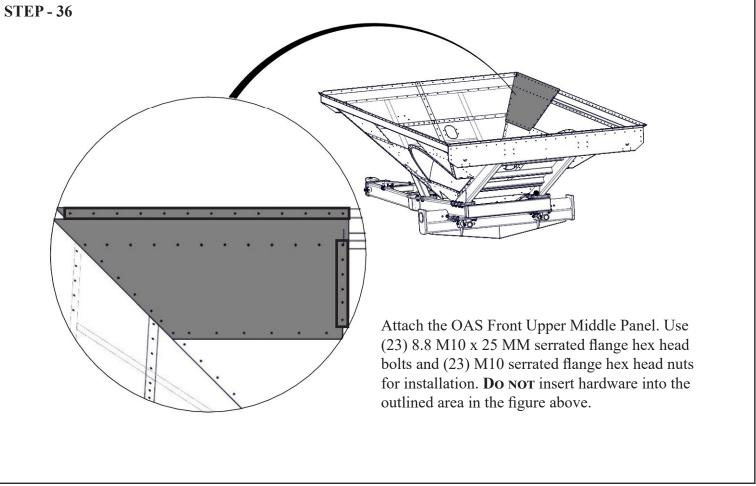
Attach the AS Front Upper Middle Panel. Use (25) 8.8 M10 x 25 MM serrated flange hex head bolts and (25) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

STEP - 34

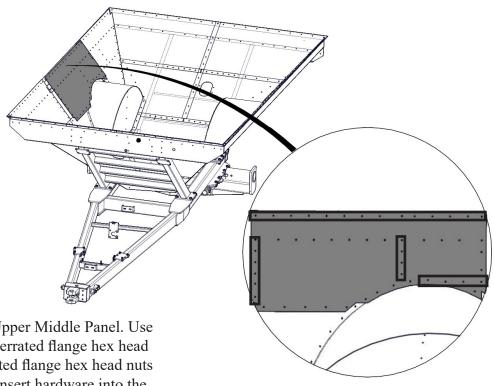


Attach the Rear OAS Upper Middle Panel. Use (21) 8.8 M10 x 25 MM serrated flange hex head bolts and (21) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

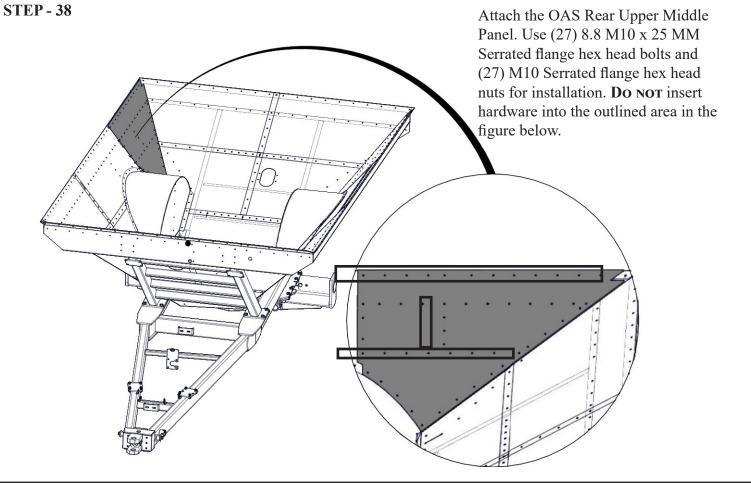




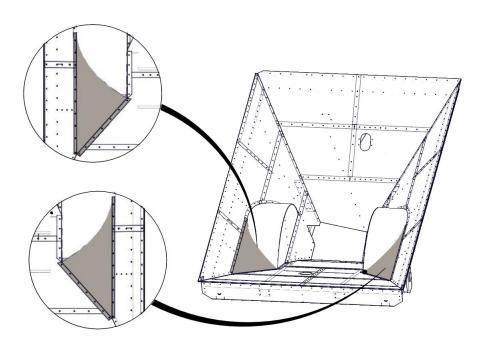




Attach the OAS Center Upper Middle Panel. Use (23) 8.8 M10 x 25 MM Serrated flange hex head bolts and (23) M10 Serrated flange hex head nuts for installation. **Do Not** insert hardware into the outlined area in the figure above.

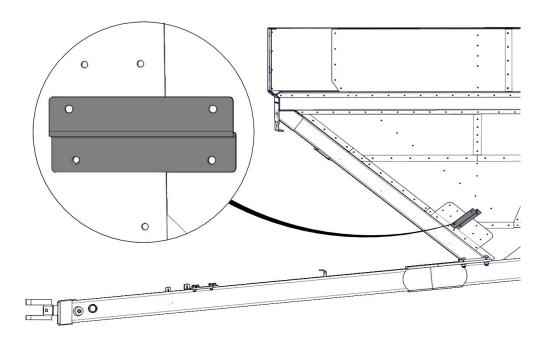


*Skip this step if you have Tracks.



Attach the Rear Sheddar Panels. Use (34) 8.8 M10 x 25 MM serrated flange hex head bolts and (34) M10 serrated flange hex head nuts for installation.

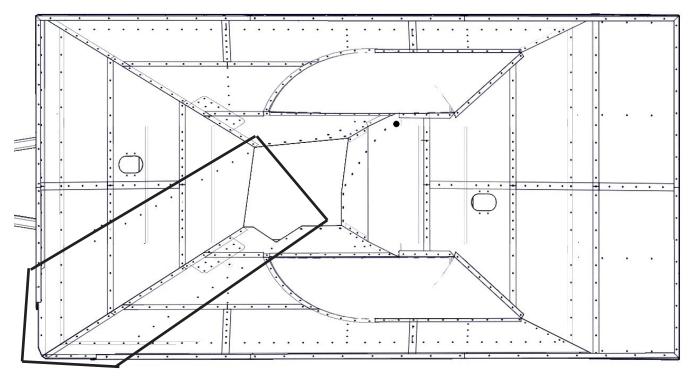
STEP - 40



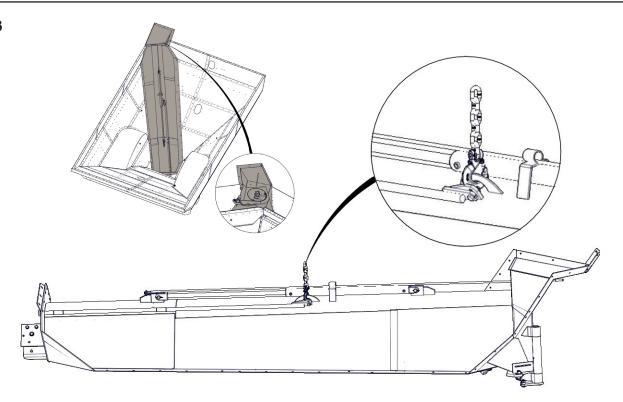
Attach the clean out door mount using (2) M10 x 25MM serrated flange hex head bolts and (2) M10 serrated flange hex nuts.

Attach the junction box and display screen mounts. Use (4)M10 x 25 MM bolts to mount them both. Attach the battery box walls with (2) M10 x 25 serrated hex head bolts and (2) M10 nylon locking Nuts. Next attach the battery box strap with (2) M10 x 50MM hex bolts and (2) nylon insert locknuts. Now Attach 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 cord 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.

STEP - 42



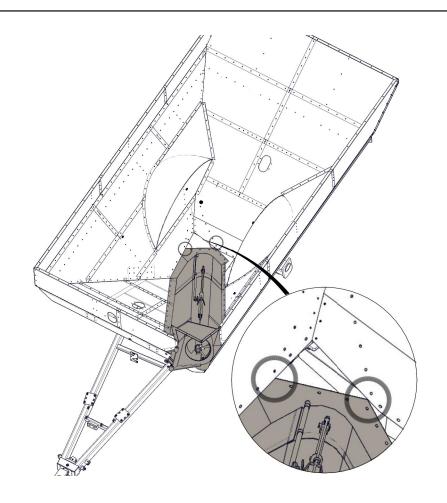
STOP! Tighten the bolts that are surrounded by the outlined area in the above figure. These bolts will be inaccessible after the next few steps.

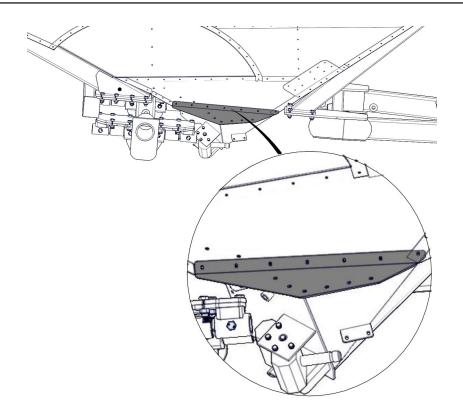


Using an overhead hoist, lift the bottom tube assembly using the lifting hook hole. This should help set the appropriate angle for laying the assembly into the tank.

STEP - 44

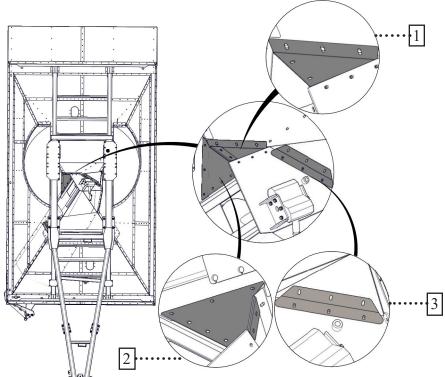
Using an overhead hoist, lift the bottom tube assembly into the front left corner of the grain cart. Lower the bottom tube assembly until the two corners that are circled in the figure to the right to go below the tank assembly. Then raise the lower auger back up so that the two circled corners can be 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.





Attach the gearbox top plate. Use (12) M10 x 25MM serrated hex head bolts and (12) M10 serrated hex flange nuts to attach the gearbox top plate to the shell assembly.

STEP - 46

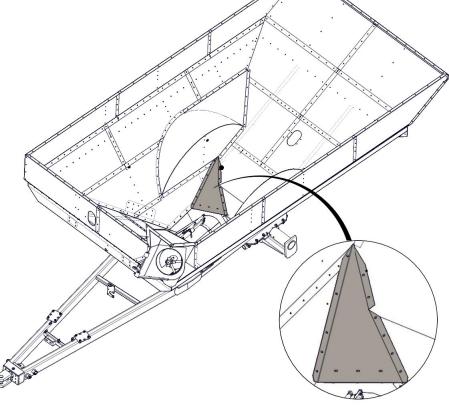


Attach the {1} rear slope splice plate & the {2} side slope splice plate. Use (14) M10 x 25MM serrated hex head bolts and (14) M10 serrated hex flange nuts to attach them to the gearbox assembly. Attach the {3} inside sheddar panel splice plate. Use (6) M10 x 25MM serrated hex head bolts and (6) M10 serrated hex flange nuts for attachment. **Tighten all splice plates and lower panels.**

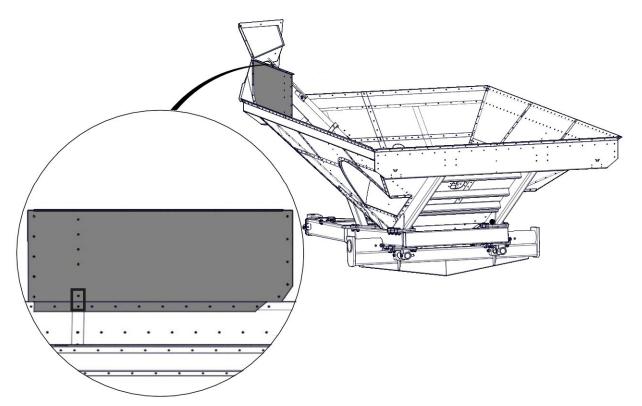
(J&M)



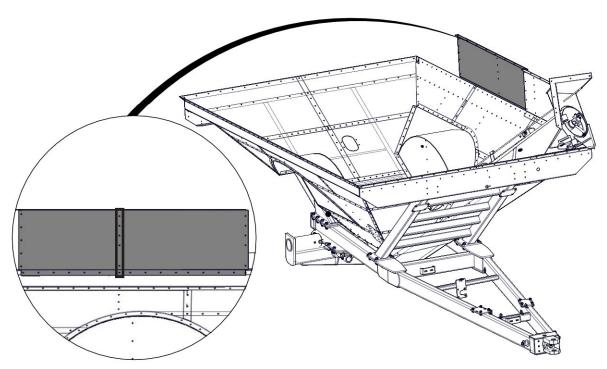
Attach the Shedder Panel/ Gearbox Splice Plate. Use (14) 8.8 M10 x 25 MM serrated hex head bolts and (14) M10 serrated hex nuts. (M10 x 35 SF may be needed for some of the holes.)



STEP - 48

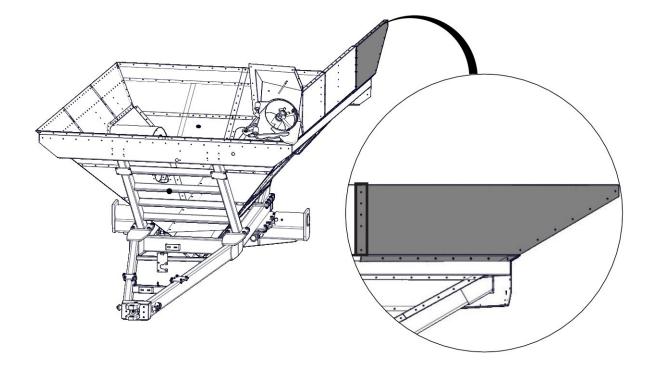


Attach the AS Front Top Panel. Use (14) 8.8 M10 x 25 MM serrated flange hex head bolts and (14) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

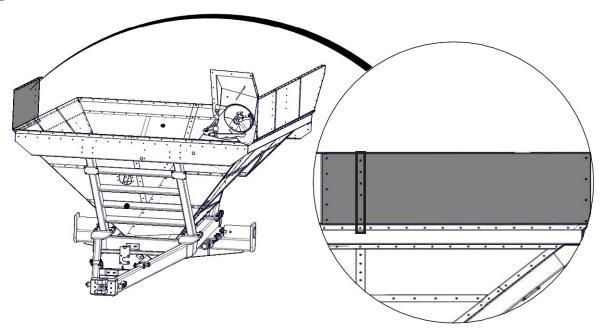


Attach the AS Center Top Panel. Use (19) 8.8 M10 x 25 MM serrated flange hex head bolts and (19) M10 serrated flange hex head nuts for installation. **Do Not** insert hardware into the outlined area in the figure above.

STEP - 50

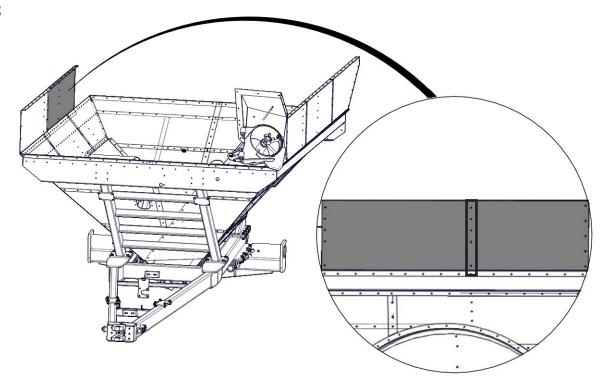


Attach the AS Rear Top Panel. Use (8) 8.8 M10 x 25 MM serrated flange hex head bolts and (8) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

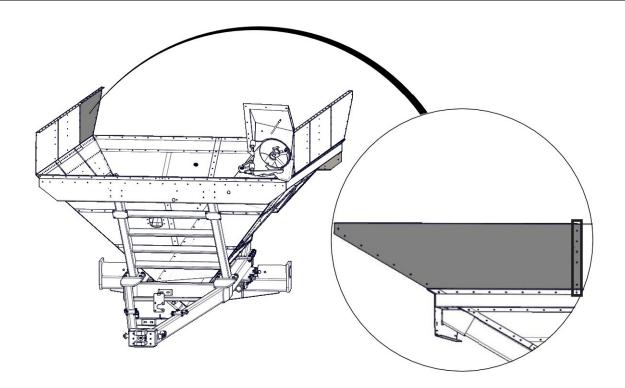


Attach the OAS Front Top Panel. Use (14) 8.8 M10 x 25 MM serrated flange hex head bolts and (14) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

STEP - 52

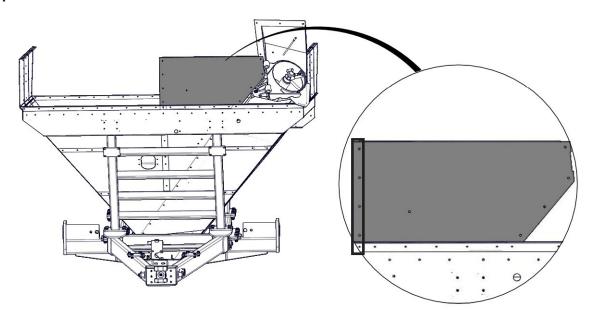


Attach the OAS Center Top Panel. Use (19) 8.8 M10 x 25 MM serrated flange hex head bolts and (19) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

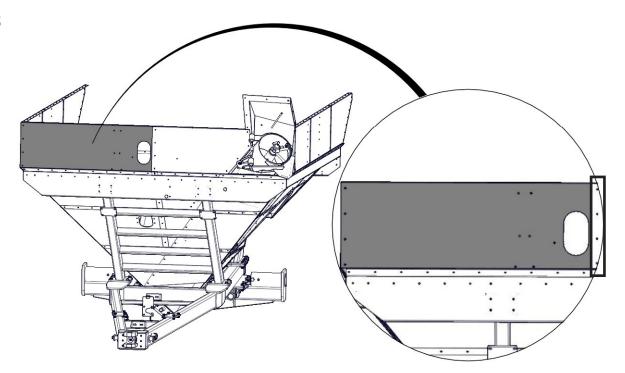


Attach the OAS Rear Top Panel. Use (8) 8.8 M10 x 25 MM serrated flange hex head bolts and (8) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

STEP - 54

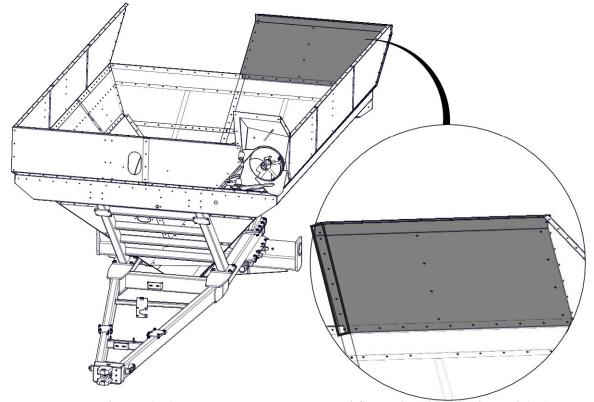


Attach the Front AS Top Panel. Use (9) 8.8 M10 x 25 MM serrated flange hex head bolts and (9) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

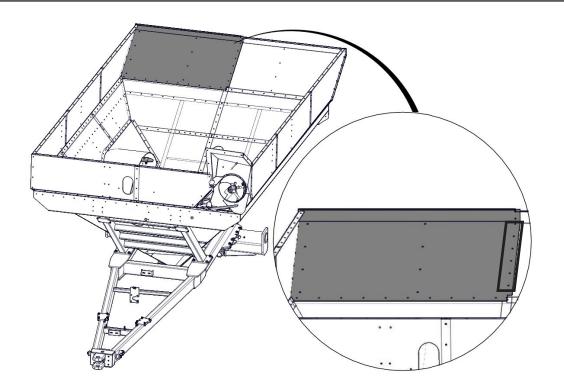


Attach the Front OAS Top Panel. Use (10) 8.8 M10 x 25 MM serrated flange hex head bolts and (10) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.

STEP - 56

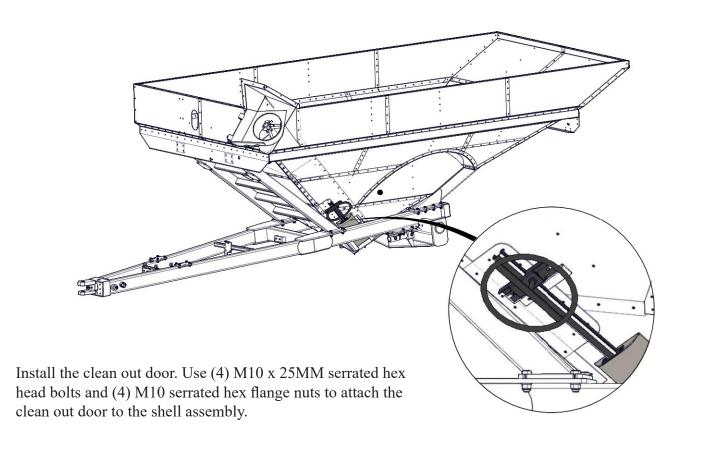


Attach the Rear AS Top Panel. Use (24) 8.8 M10 x 25 MM serrated flange hex head bolts and (24) M10 serrated flange hex head nuts for installation. **Do NOT** insert hardware into the outlined area in the figure above.



Install the Rear OAS Top Panel. Use (26) 8.8 M10 x 25 MM serrated flange hex head bolts and (26) M10 serrated flange hex head nuts for installation. **Do Not** insert hardware into the outlined area in the figure above.

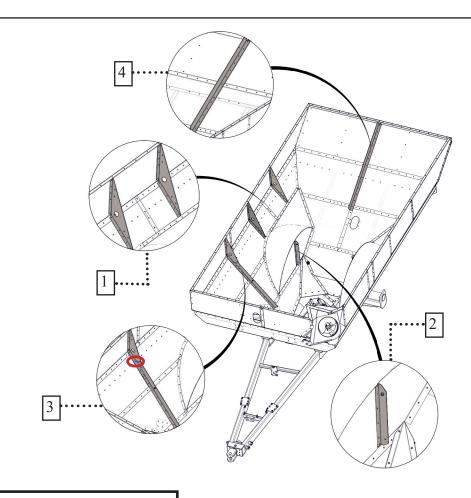
STEP - 58



Install the following items:

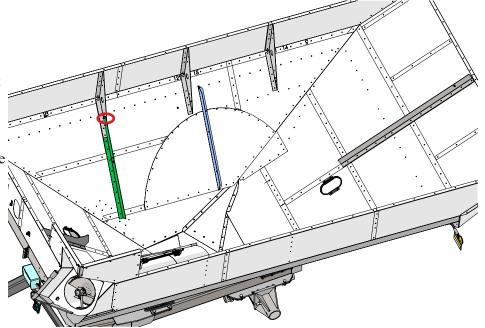
- 1. (3) Side Gussets
- 2. Fender Well Wall Support Brace
- 3. OAS Slope Brace
- 4. Rear Slope Brace.

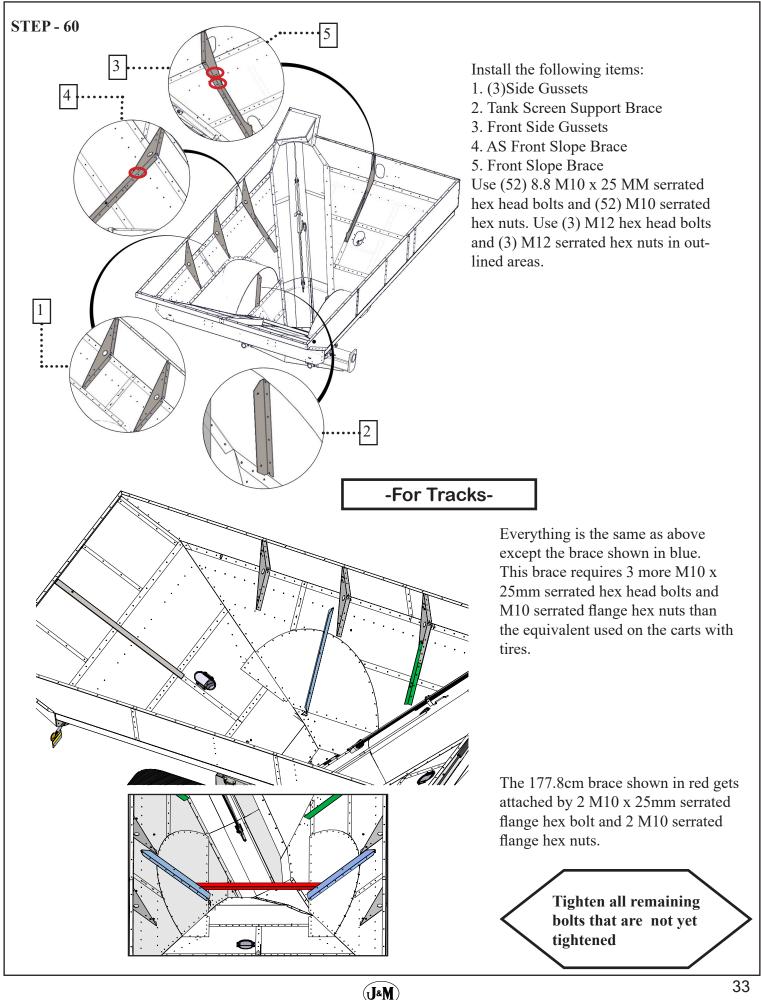
Use (56) 8.8 M10 x 25 MM serrated hex head bolts and (56) M10 serrated hex nuts. Use (1) M12 hex head bolt and (1) M12 serrated hex nut in the outlined area.



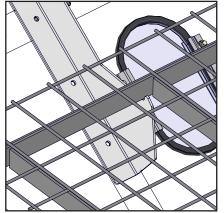
-For Tracks-

Everything is the same as above except the brace shown in blue. This brace requires 3 more M10 x 25mm serrated hex head bolts and M10 serrated flange hex nuts than the equivalent used on the carts with tires.





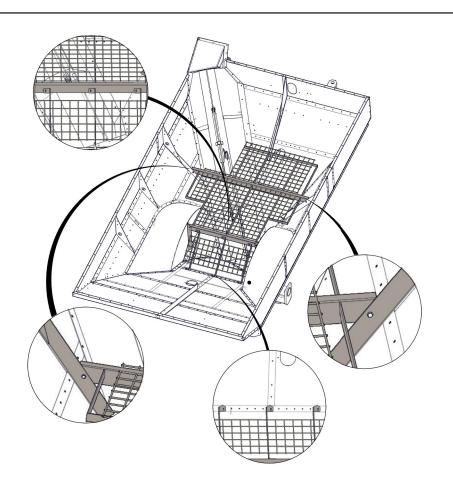
Install the Tank Screen. For the tank screen cross braces use (4) M12 x 25 MM serrated hex head bolts and (4) M12 serrated hex flange nuts. To assemble the short tank screen towards the rear of the cart use (6) 8.8 M10 x 25 MM serrated hex head bolts and (6) M10 serrated hex nuts.

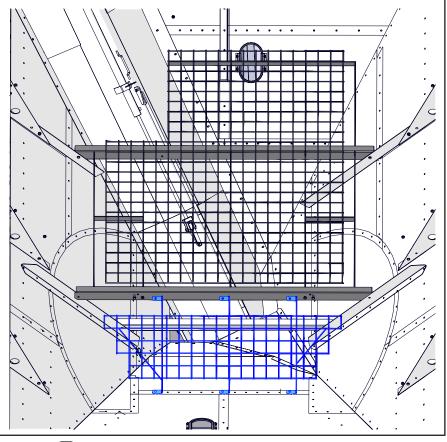


Screen will get set on this brace and will "hook" into place. It is at the front of the cart.

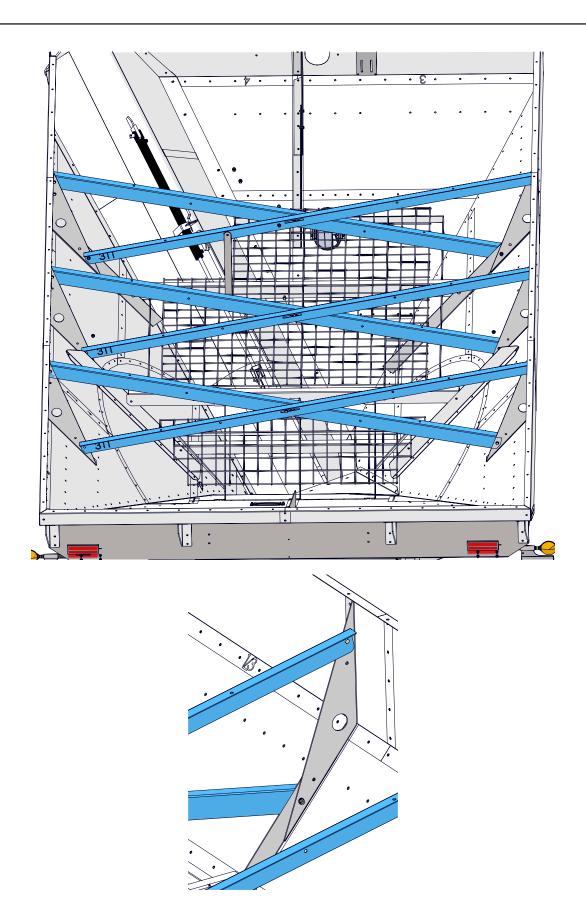


The screens for tracks here look different but utilize the same hardware as above.



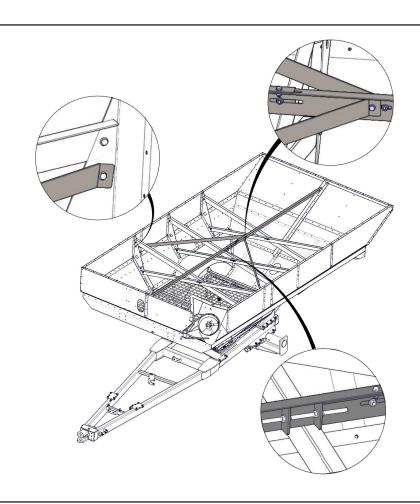


STEP - 62

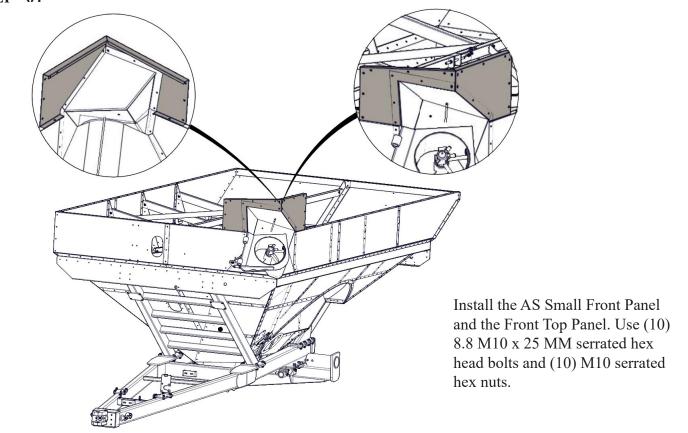


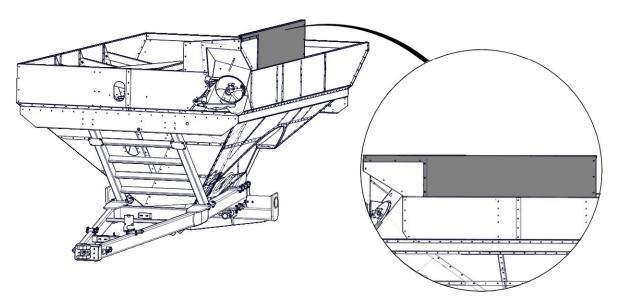
Install all three cross braces. Use (15) $8.8\,\mathrm{M}12\,\mathrm{x}$ 25 MM serrated hex head bolts and (15) M12 serrated hex nuts.

Install front to back cross brace. Use (4) M12 x 25MM serrated flange hex head bolts and (4) serrated hex head nuts to attach the front to back cross brace. Use (4) more to attach the side supports for the cross brace. Where the two front and back cross braces connect them with an M12 x 300 MM all thread bolt and (4) M12 hex head locking nuts.



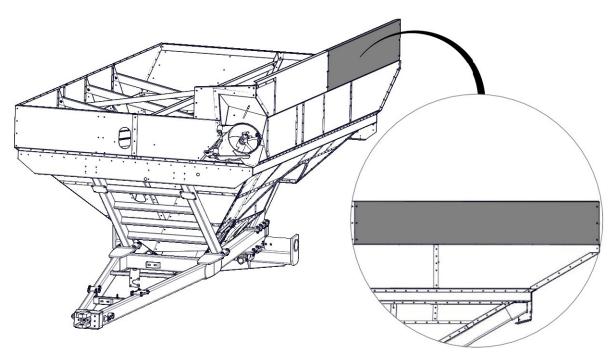
STEP - 64



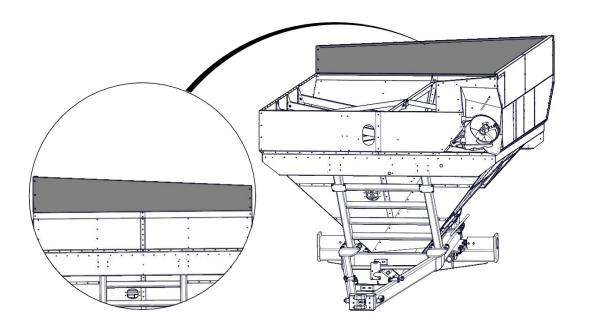


Install the High Front Sideboard. Use (14) $8.8\,M10\,x\,25\,MM$ serrated hex head bolts and (14) $M10\,$ serrated hex nuts

STEP - 66

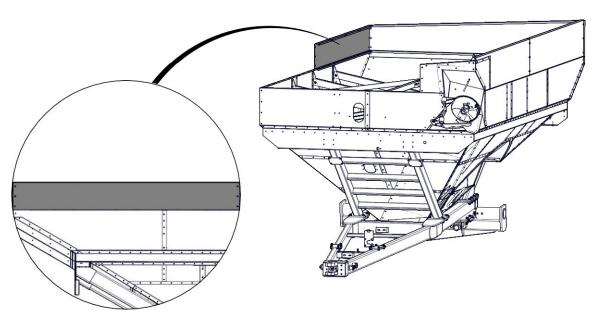


Install the High Rear Sideboard. Use (11) $8.8\,\mathrm{M}10\,\mathrm{x}$ 25 MM serrated hex head bolts and (11) M10 serrated hex nuts

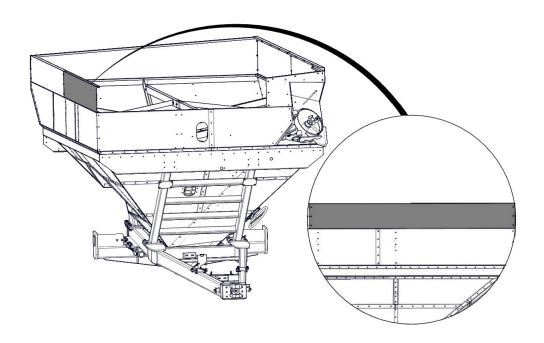


Install the Rear End board. Use (16) $8.8\,\mathrm{M}10\,\mathrm{x}$ 25 MM serrated hex head bolts and (16) M10 serrated hex nuts

STEP - 68

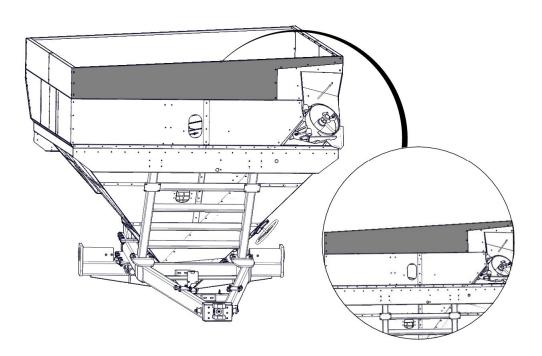


Install the Low Rear Sideboard. Use (11) $8.8\,\mathrm{M}10\,\mathrm{x}$ 25 MM serrated hex head bolts and (11) M10 serrated hex nuts.



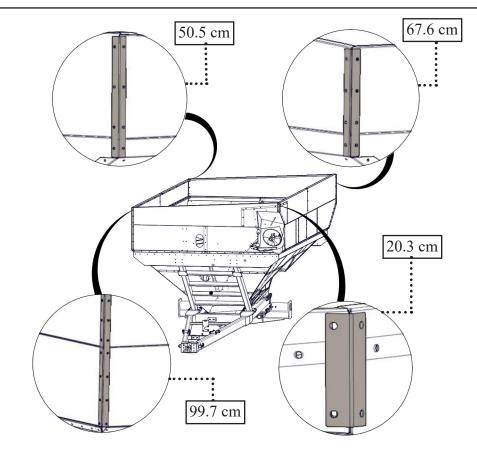
Install the Low Front Sideboard. Use (11) 8.8 M10 x 25 MM serrated hex head bolts and (11) M10 serrated hex nuts.

STEP - 70

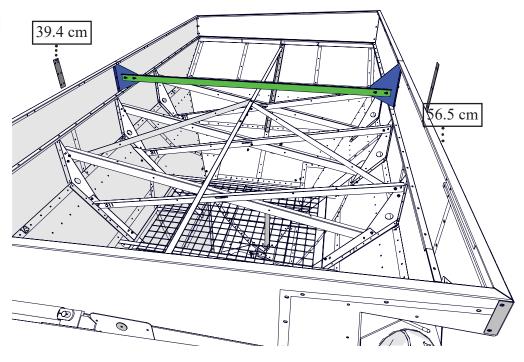


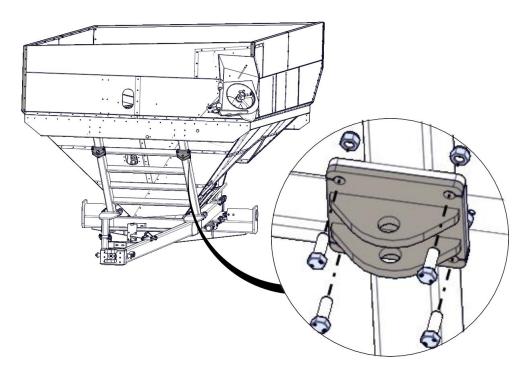
Install the Front End board. Use (20) $8.8\,M10$ x $25\,MM$ serrated hex head bolts and (20) M10 serrated hex nuts.

Install all of the Sideboard Corners. Use (34) 8.8 M10 x 25 MM serrated hex head bolts and (34) M10 serrated hex nuts.



Install Sideboard Splices and sideboard brace ends. Then install the sideboard brace shown in green. Use (16) 8.8 M10 x 25 MM serrated hex head bolts and (16) M10 serrated hex nuts to tighten down making sure the sideboards are running in a straight line.

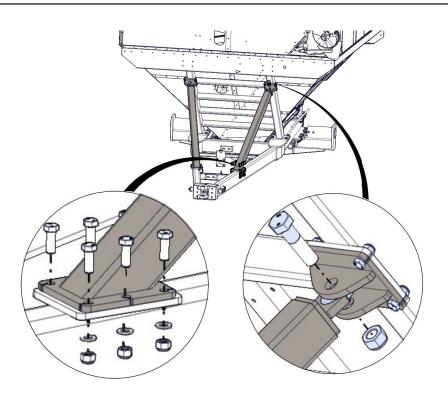


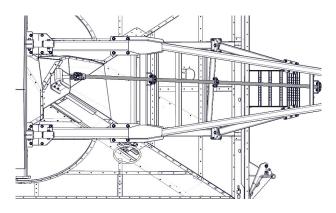


Install the ear mount pads. Use (8) M16 x 45 MM bolts and (8) M16 locking nuts to attach the ear mount pads to the front leg.

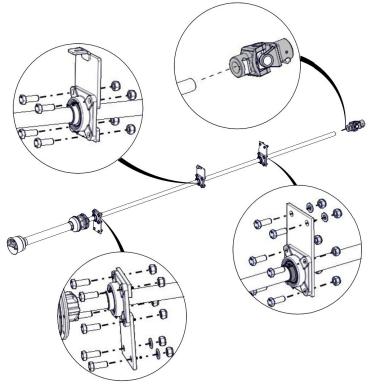
STEP - 73

Install front leg support braces. Use (12) M16 x 45 hex head bolts, (12) M16 washers, and (12) M16 nylon locking nuts.
Use (2) M30 x 120MM bolts and (2) M30 Nuts to attach the front leg support brace to the front leg.



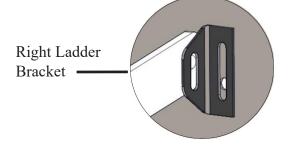


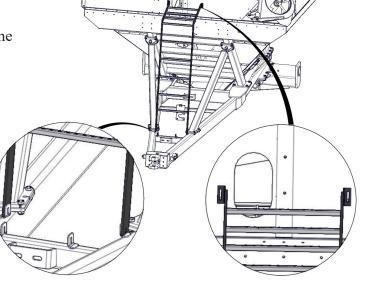
Install the driveshaft assembly with (16) M16 x 45 MM bolts and locknuts without flanges. Only use washers on bolts and nuts for end of plates that bolt onto the main frame weldment. Attach the universal joint with a 5/8" x 3" hex head bolt and lock nut.

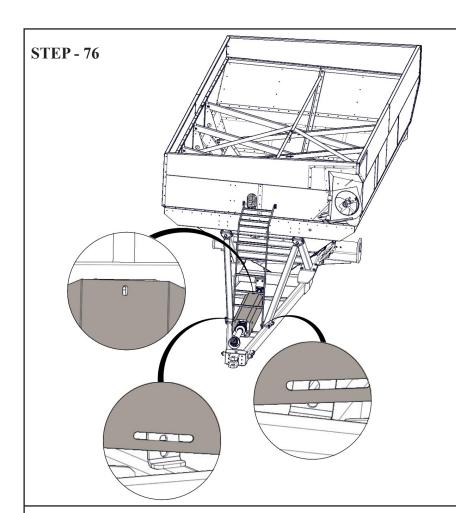


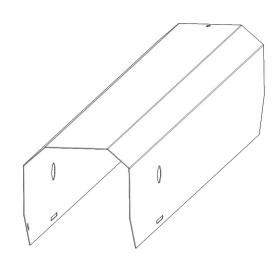
STEP - 75

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 install 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.



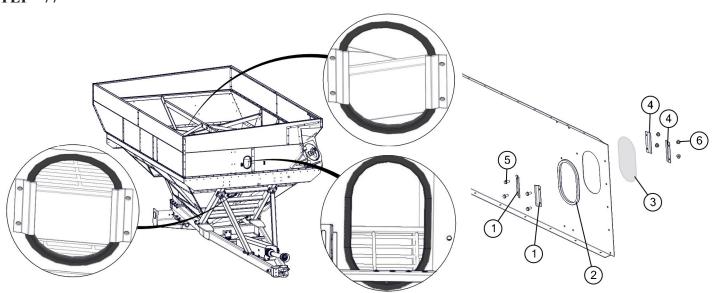




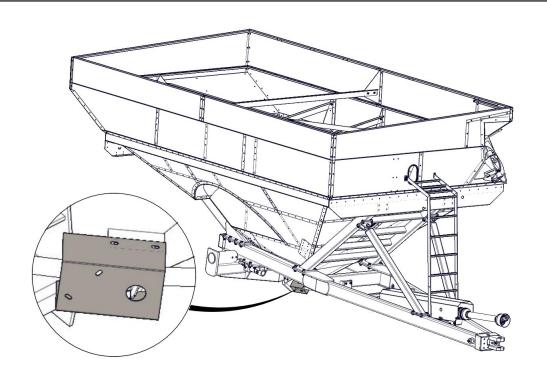


Install drive line shield. Use (3) M10 x 25MM serrated hex head bolts and (3) M10 serrated hex flange nuts to attach the drive line shield to the frame.

STEP - 77

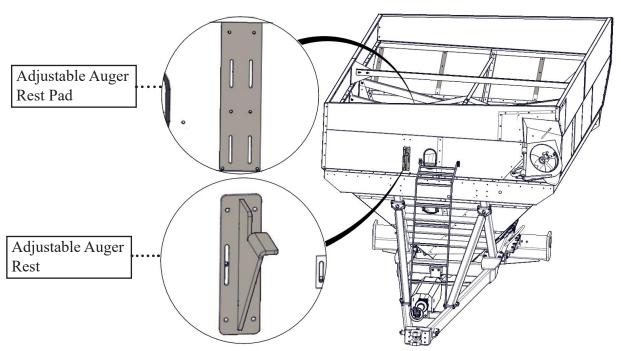


Install all three windows. The top window assembly consists of the window and window seal. The front and rear lower windows take (4) M10 x 25MM serrated hex head bolts and (4) M10 locking nuts, window, window seal, (2) inner brackets, and (2) outer brackets. Start by inserting the window seal into the opening followed by the window. Then attach both the inner and outer brackets with their hardware. The window should be on the inside of the cart when the installation is finished.



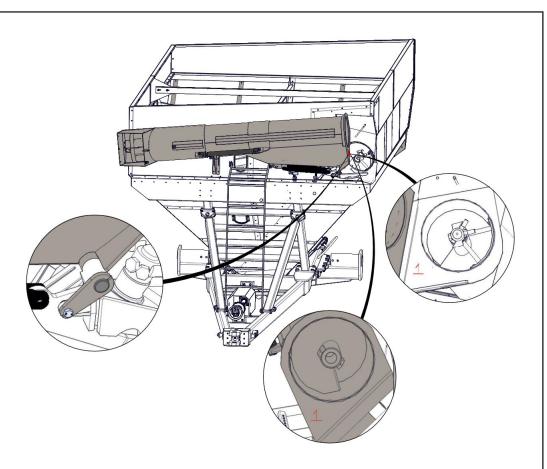
Install U-joint guard. Use (2) M10 serrated hex head bolts and (2) M10 serrated hex flange nuts to attach the U-joint guard to the gearbox assembly.

STEP - 79

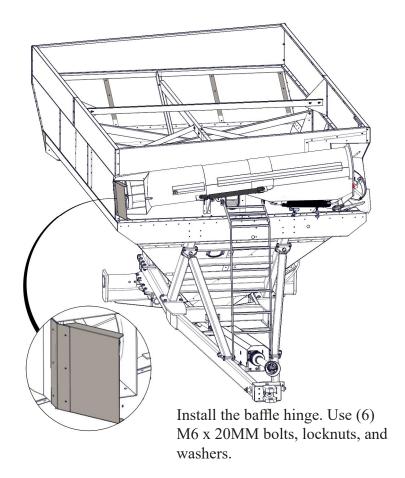


Install the adjustable auger rest pad. Use (4) M10 x 25 MM serrated hex head bolts and (2) M10 serrated hex flange nuts. Next attach the adjustable auger rest. Use (2) M10 x 40 MM, (2) M10 washers, and (2) M10 nylon lock nuts. Do not tighten the bolts. This will need to be adjusted in the next step.

Install the auger top tube assembly and pivot pin with M16 x 45 MM hex bolts and nylon lock nuts extra large washers and lock washers. 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). Now set the adjustable auger rest. Once it is set drill through the remaining four holes and use (4) M10 x 40 MM hex head bolts, (4) washers, and (4) nylon lock nuts.

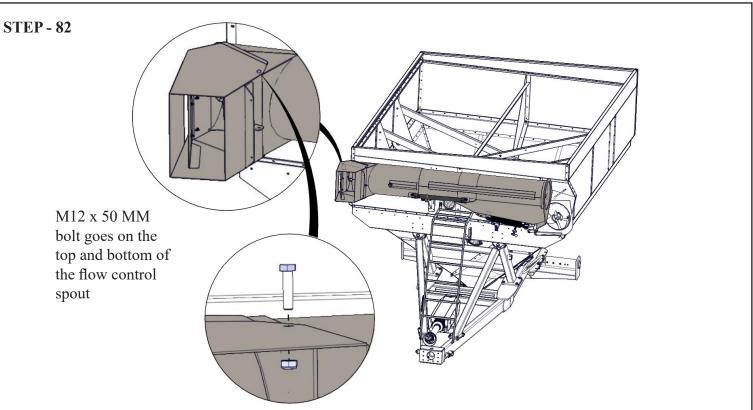


STEP - 81





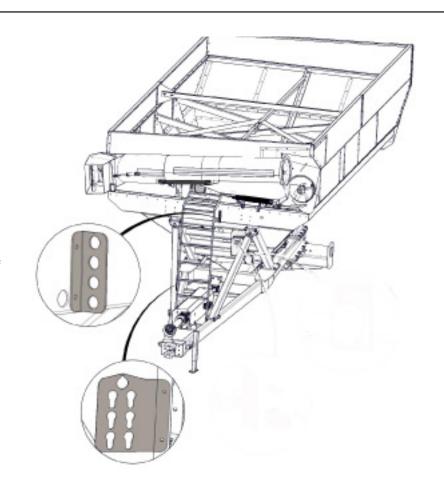
Adjust auger rest pad. Move the rest pad up or down until both circled points in the image above are touching the rest pad. Then drill through the shell in the remaining holes. Use (4) M10 x 40 hex bolts and (4) M10 nylon locking hex nuts.

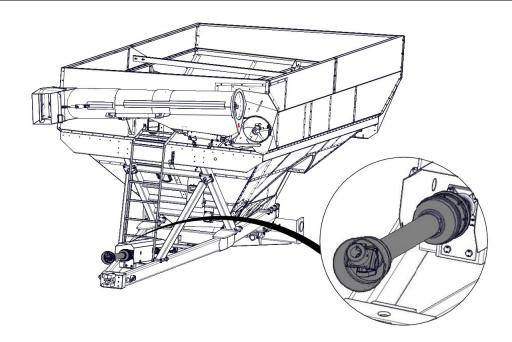


Use an overhead hoist and lift strap to install the flow control spout assembly. Use (2) M12 x 50MM bolts and hex locknuts. Do not overtighten. The flow control spout assembly needs to be able to pivot freely.

STEP - 83

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 tank assembly. Next loosely attach the hydraulic hose holder ladder bracket. Use (2) M10 x 40MM hex head bolts and (2) M10 nylon lock nuts. The hydraulic hoses will run between the bracket and the ladder.

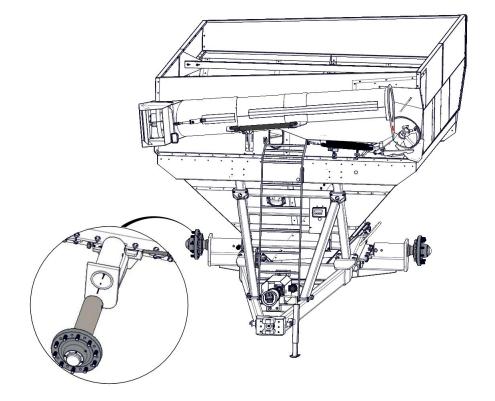




Install the PTO slip clutch assembly. The PTO shaft will need to be shortened depending on the distance between the tractor PTO shaft and the cart drive line shaft.

STEP - 85

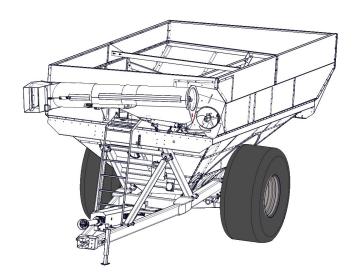
*Skip this step if you have Tracks.



Install the hubs and spindles with 1" x 8" hex head bolt and center lock nuts.

47

*Skip this step if you have Tracks.

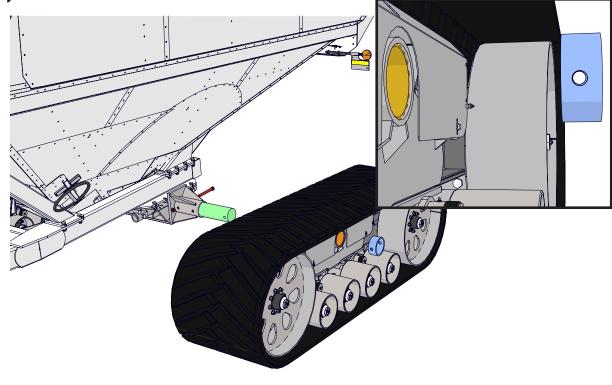


Install the wheels and tires with 3/4" lug nuts. Be sure to tighten and monitor lug nuts to make sure that they stay tight.

STEP - 87

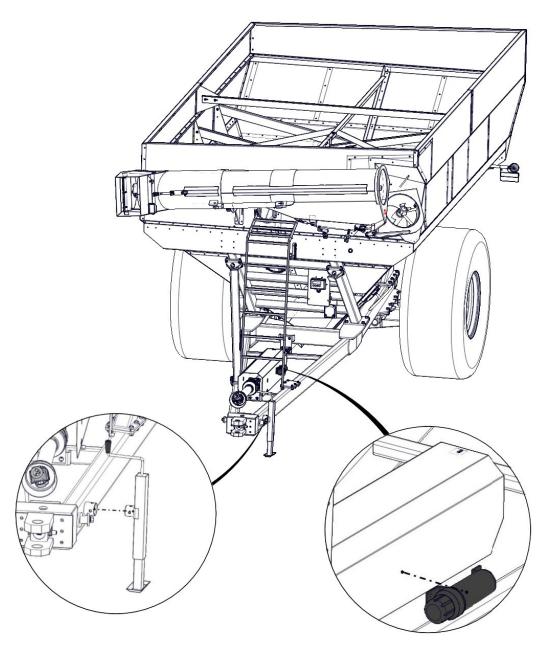
Install the track spindle (shown in green) and use the 1" x 9-1/2" hex bolt and 1" centerlock hex nut to hold in place. Next using a forklift slide one set of tracks onto the spindle. When putting the collar on (shown in blue) make sure the hole that is closer to edge goes against the tracks. Use another 1" x 9-1/2" hex bolt and nut to fasten. Do the same to the other side.

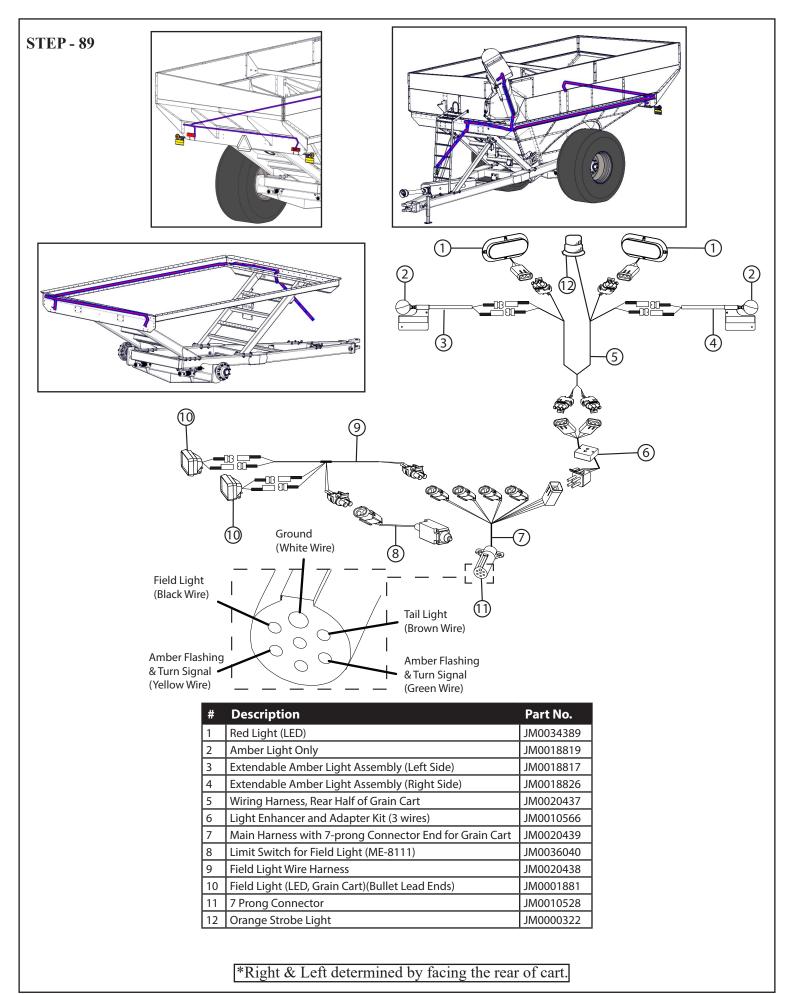
*Skip this step if you have Tires.



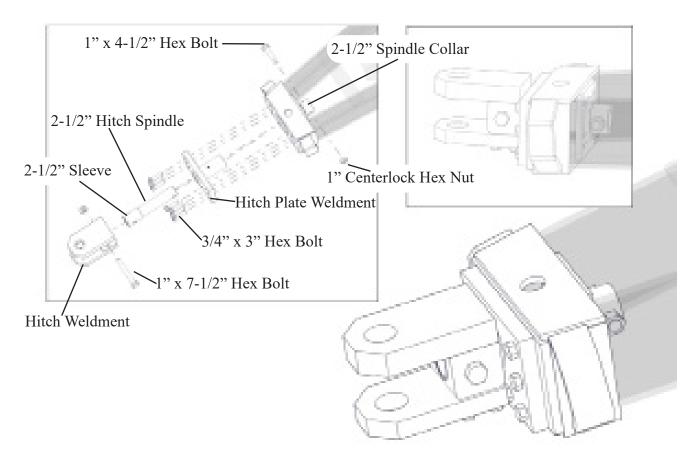
Check the track manual to get torque settings for nuts.

Install the jack and the black manual holder. The manual holder is to be attached on the auger side of the pto guard. If there are not holes there already, drill as needed. Use the manual holder to mark your holes. Drill through holes for an M6 bolt. Attach the manual holder with (2) M6 hex head bolts, (2) M6 washers and (2) M6 hex head nuts.





-Non-Scale Option-

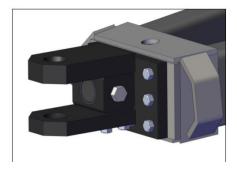


Assemble the Hitch Spindle Sleeve and Hitch Weldment. Use a 1.0" x 7-1/2" Hex Bolt and a 1" Centerlock Hex Nut to fasten the two together.

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.



-Scale Option-

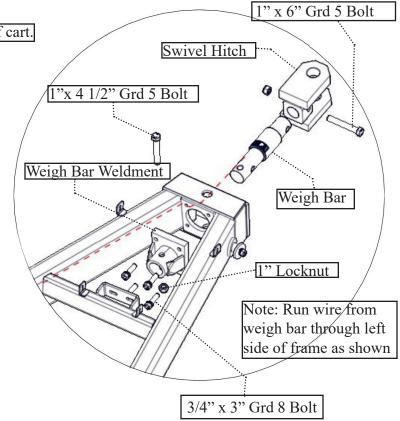
*Right & Left determined by facing the rear of cart.

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.

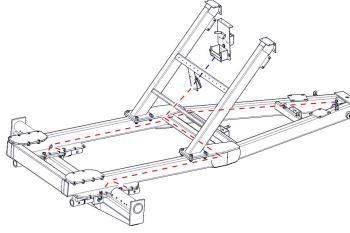
Attach Swivel Hitch with 1" x 5 1/2" Gr 5 Bolt and locknut to the Weigh Bar.



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.

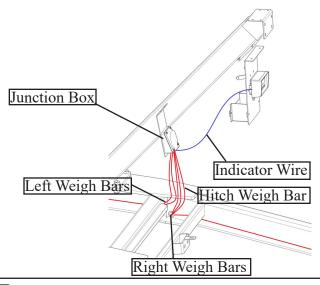


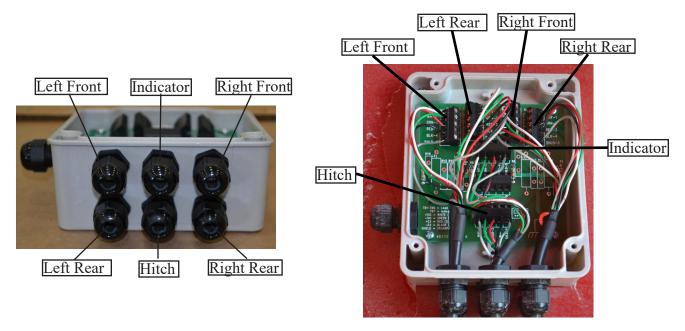
In the Junction Box are 7 connectors. The connector that is on the left side of the Junction Box needs to be plugged. To install, loosen the connector, insert plug, then retighten.

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.





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.

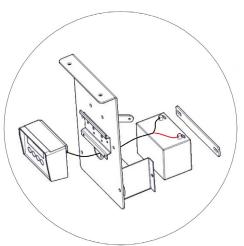
Weigh-TronixDigi-StarJunction Box Wiring Diagram
+Sig = White
-Sig = Red
+Exc = Green
-Exc = Black
Shield = Orange or Orange-WhiteJunction Box Wiring Diagram
+Sig = White
-Sig = Green
+Exc = Red
-Exc = Black
Shield = Orange

Once finished replace cover of the Junction Box.

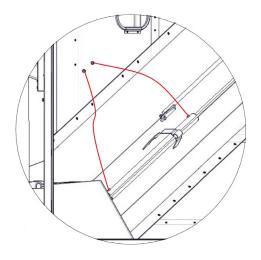
Attach the cord wrap around the wires running from the frame to the Junction Box.

Attach the cord wraps for all four rear weigh bars.

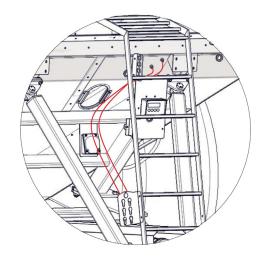
Connect the display screen to the battery. The red wire is to be run to the positive side (+) and the black wire is to be run to the negative side (-).



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



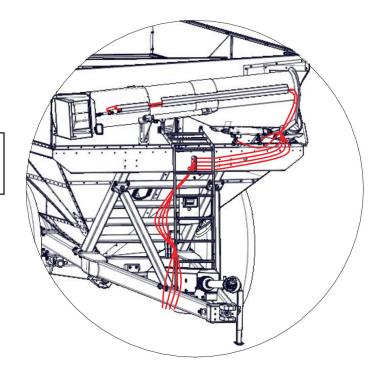
Attach two 1/4" x 29" (736.6mm) hydraulic hoses from the shut off gate cylinder to the tank bulkhead couplings.



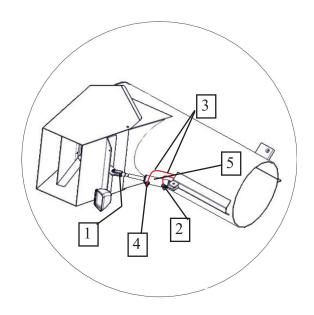
Attach two 1/4" x 160" (4,064mm) hydraulic hoses from the tank bulkhead couplings to the tractor..

STEP - 94

Install the 1/4" x 206" hose to the bottom (closest) end of cylinder. Install the 1/4" x 222" hose to the top (farthest) end of cylinder.



-Slider Option-



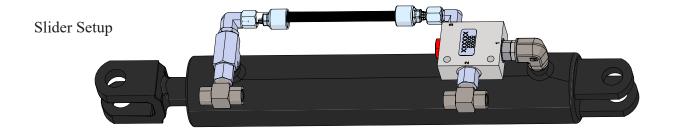
#	Description
1	1/2" X 1 1/2" Clevis pin w/ cotter pin
2	1/4" St. elbow
3	1/4" x 336' (8534mm) Hydraulic hose
	1/4" x 336' (9144mm) for Slider Option
4	1/4" Swivel restrictor
5	Hydraulic cylinder w/ clevis end

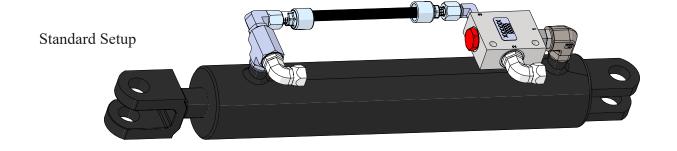


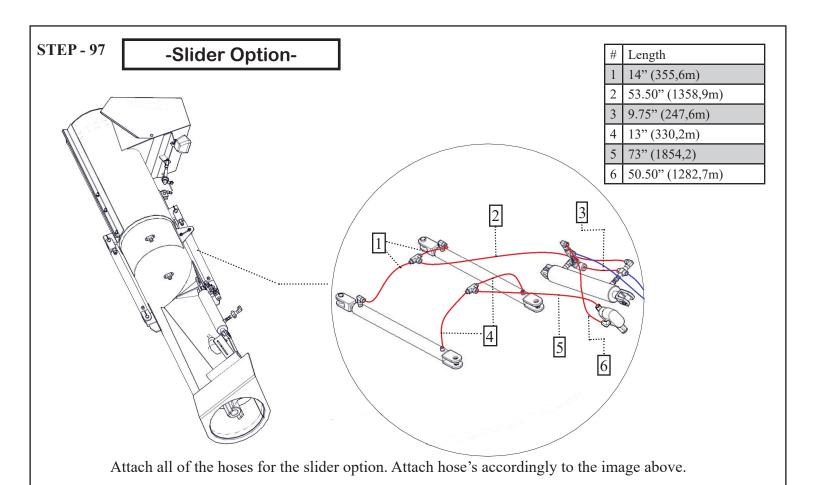
STEP - 96

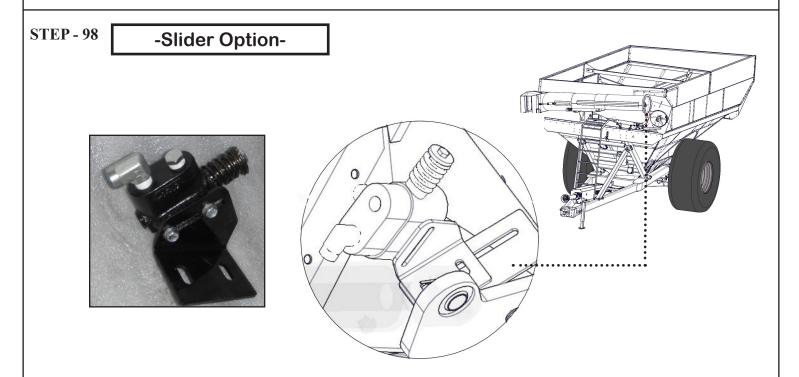
HYDRAULIC CYLINDER ASSEMBLY (To raise and lower the upper auger)

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

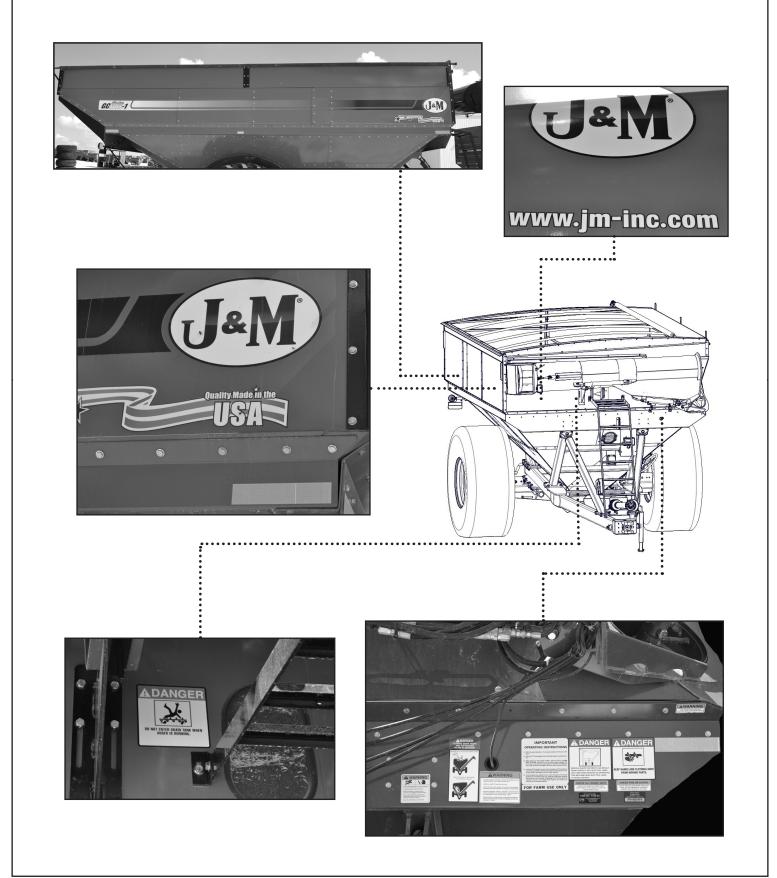




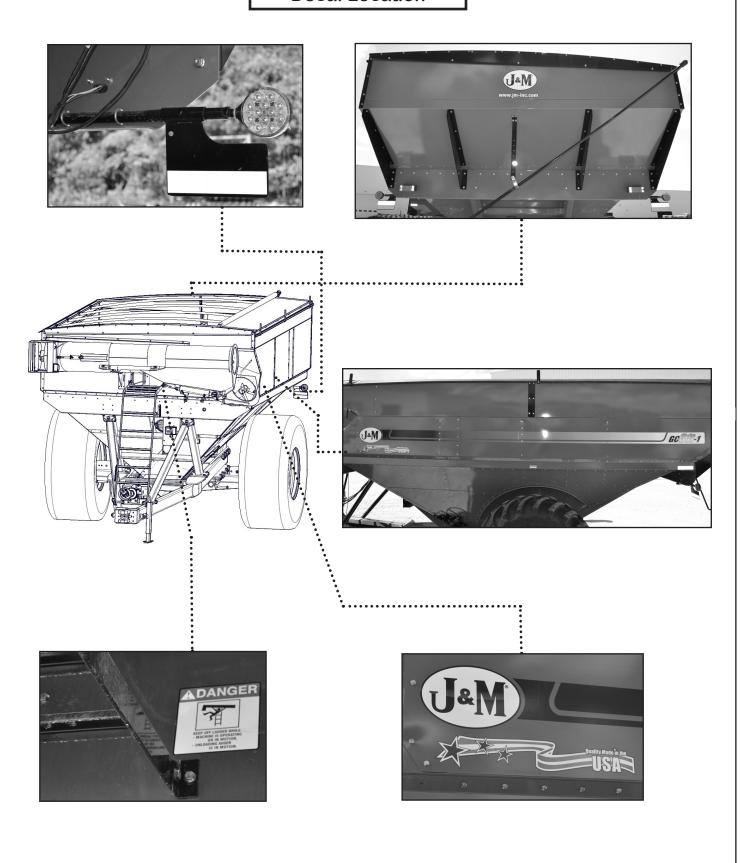




-Decal Location-



-Decal Location-



-Decal Location-







