OLD DOMINION BRUSH COMPANY

Technical Service Bulletin

TSB #111324 2004XZ Boom Repair
Rev0
November 11th, 2024

Before performing any service, always follow applicable safety precautions. Consult company safety manual or supervisor for questions concerning safety.

Subject: 2004XZ In/Out Cylinder Connection Reinforcement
Affected Products: DCL800SM, DCL800TM & DCL1000
Affected Product Range:
Related Issue: In/Out Cylinder Connection on 2004XZ is cracking the welds and breaking off at heavy loads

Parts Required:

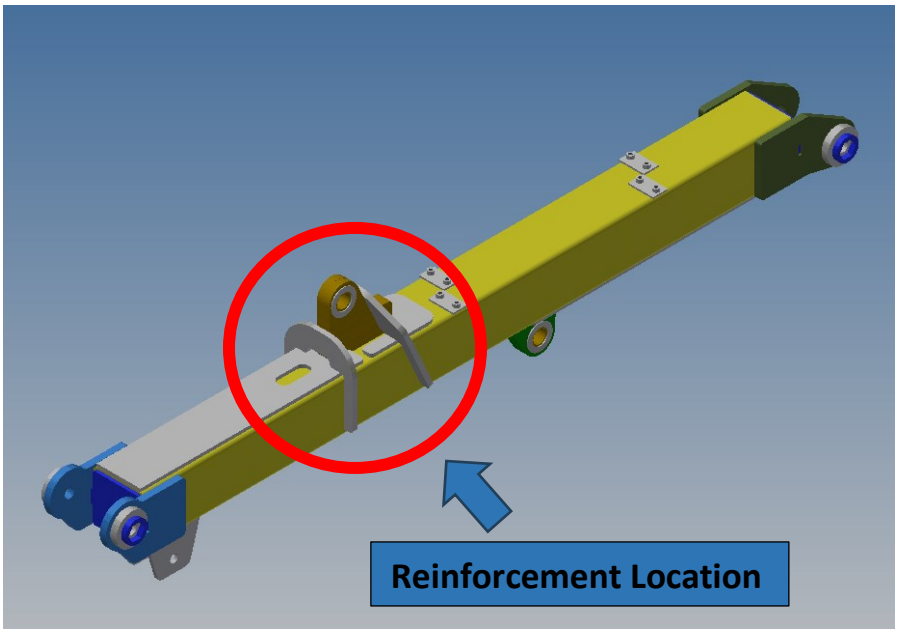
Part Number	Qty	Description
3488XZ	1	FAB,2004XZ,REAR GUSSET
3491XZ	1	FAB,2004XZ,FRONT GUSSET
3492XZ	1	FAB,2004XZ,REAR TUBE PLATE

Tools Required:

- **Grinder**
- **Welder**
- **Hammer**
- **Chisel**
- **Cutting Wheels**
- **Grinding pads**
- **Tape Measure**

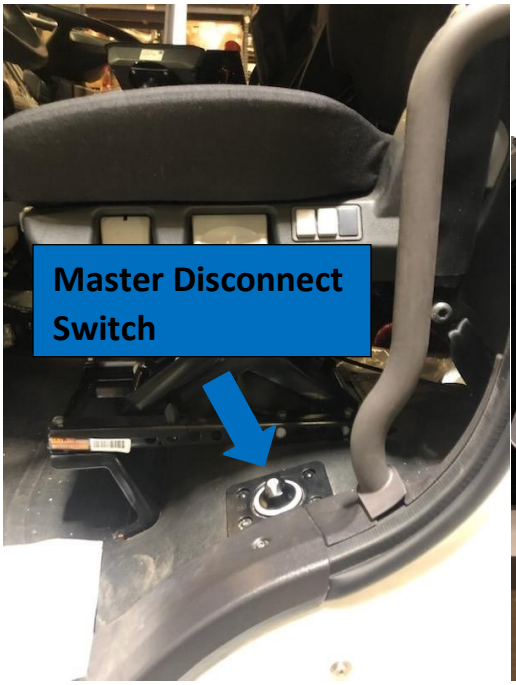
Actions Required:

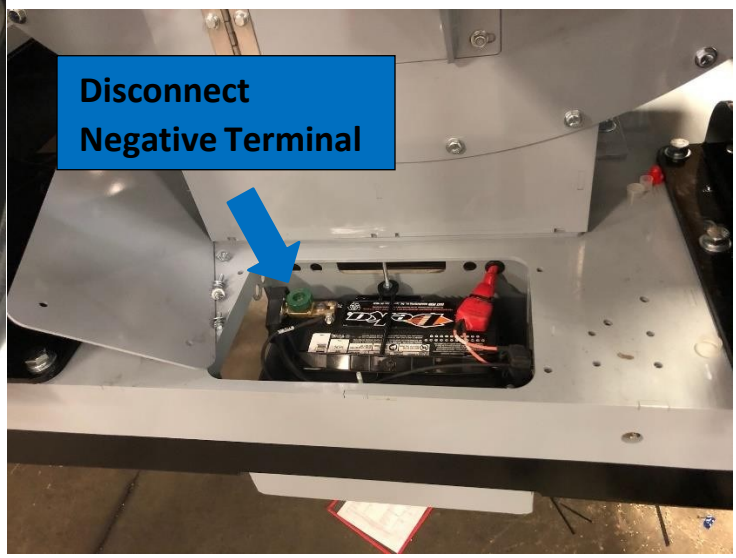
1. For this TSB we will be reinforcing/repairing the 2004XZ cylinder mount for the In/Out Hydraulic Cylinder. This is located on the first section of the boom arm.



2. Before we begin this installation process, make sure to be wearing all the appropriate PPE (Personal Protective Equipment).
3. Move the boom arm straight out at a 90-degree angle from the truck (as shown below). Lower the boom down to where the nozzle is about 1 inch from the ground.

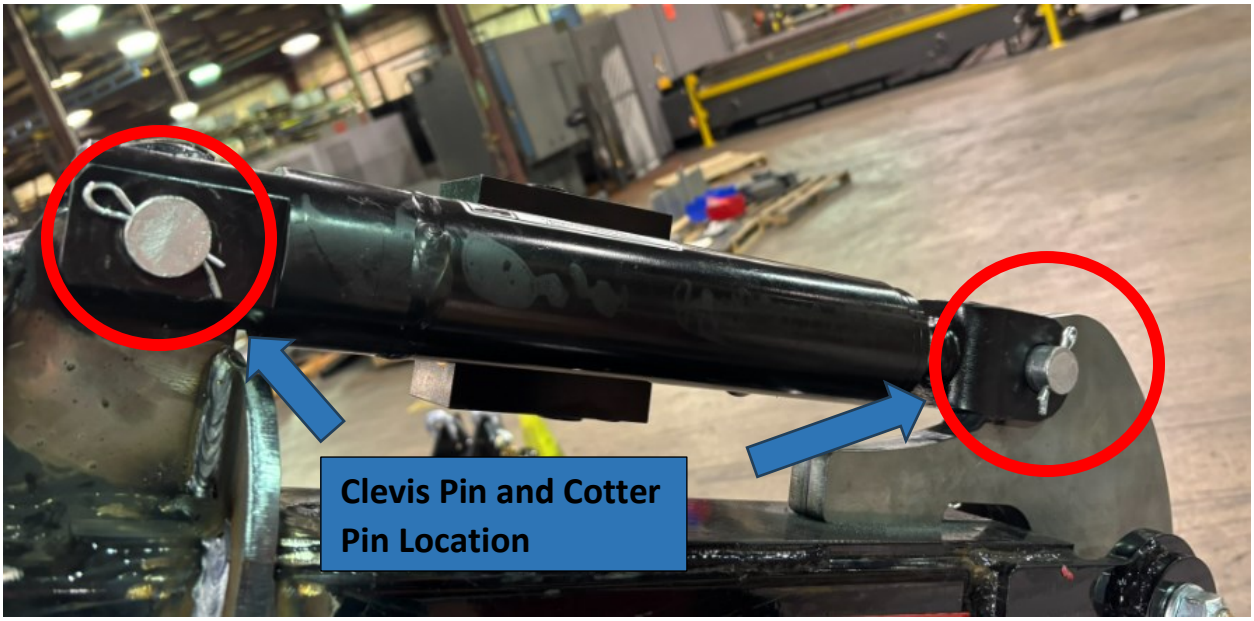
4. Disconnect the positive and negative cable to the truck chassis (DCL800SM & DCL1000 Models Only) and ODB battery (DCL800SM & TM Models).



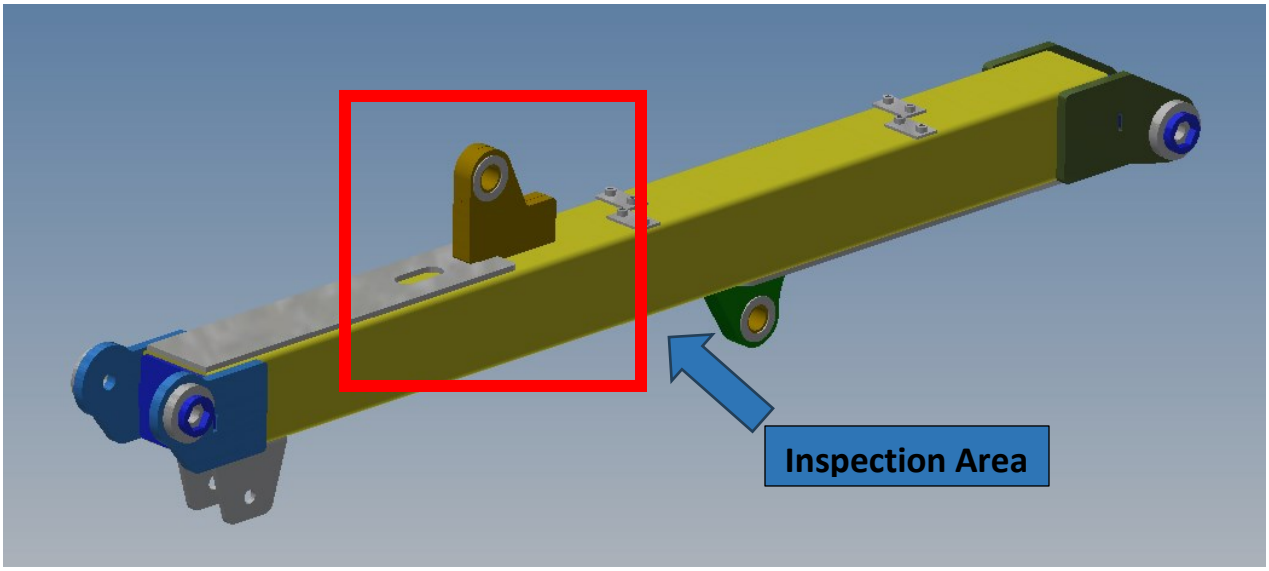


5. Remove the set of green hose clamps located on top of the up/down boom arm. Once the cylinder is removed this will get the hoses away from the working area and prevent damage to the hoses.

6. Now we need to disconnect the In/Out hydraulic cylinder from the boom arms. There are 2 clevis pins with cotter pins connecting the cylinder to both boom arms. Remove the cotter pins and the clevis pins and the cylinder will come off the unit.

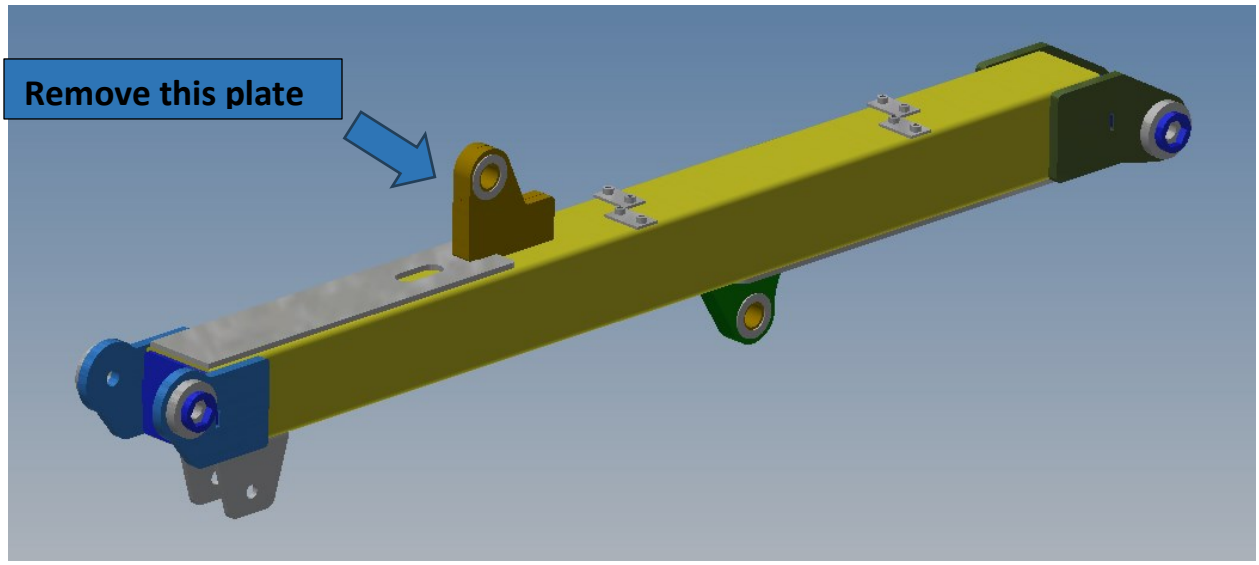


7. Place the hydraulic cylinder out of the working area in a secure location. Make sure the hydraulic cylinder hoses are out of the working area as well.
8. Inspect the area for any weld cracks and tube material failure (Cracks, bending, etc.) If the tube has sustained a crack in the web or side of the tube then we recommend replacing the boom arm (2004XZ).

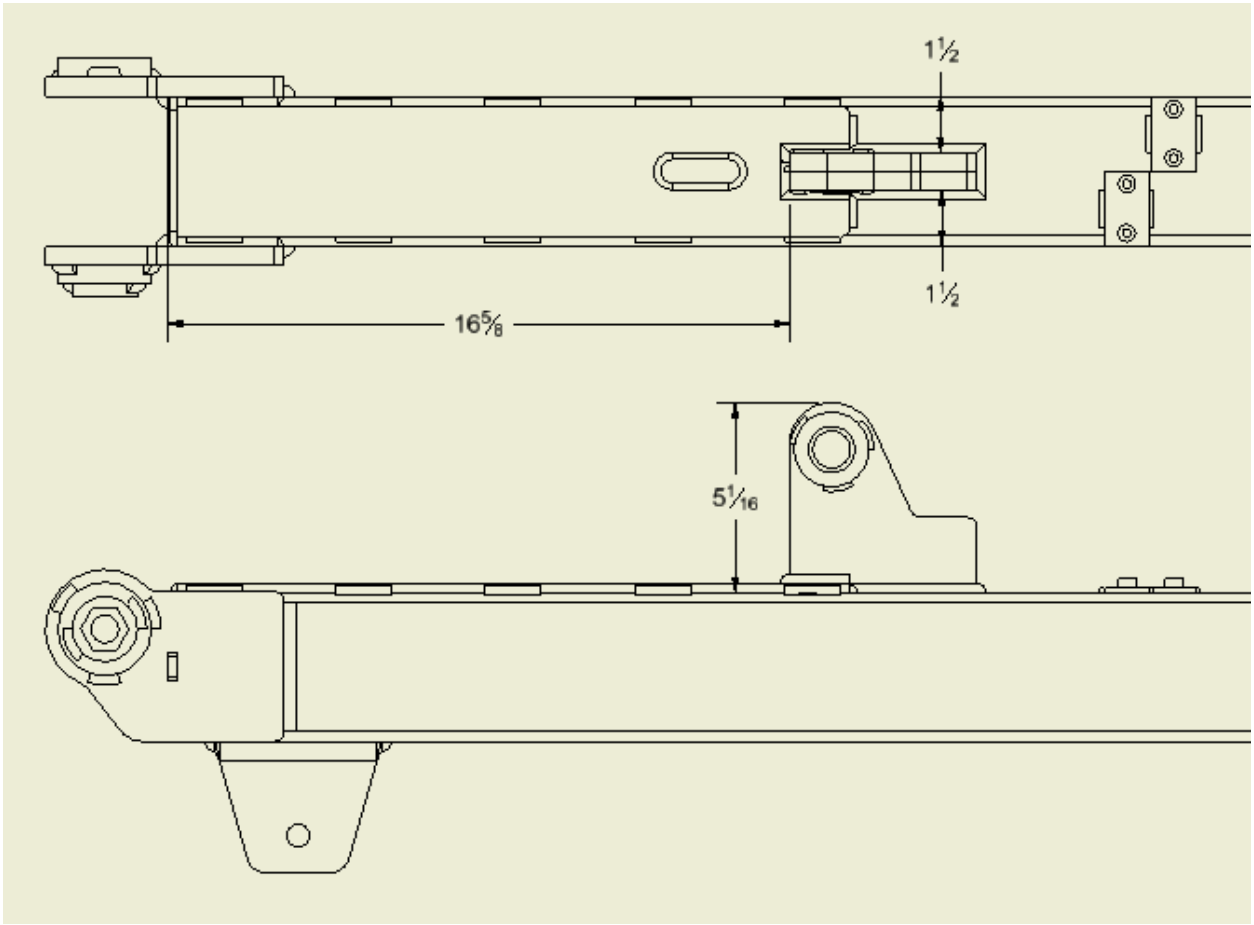


9. If the piece has been separated from the tube or has any welding failures then we need to remove the mount plate from the tube. If the piece does not require any modification or can be put back in the original position with little modification then skip line 10

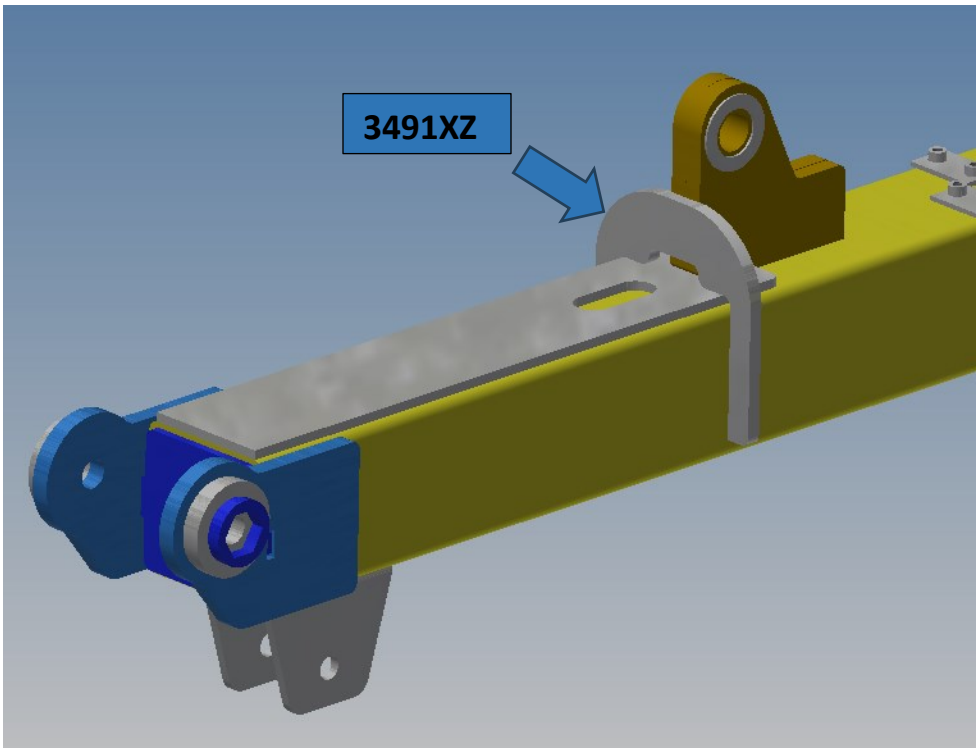
10. Using a grinder cutting wheel and grinding pads remove the piece from the tube. Grind all the existing weld down to the tube material and grind the weld off the plate.

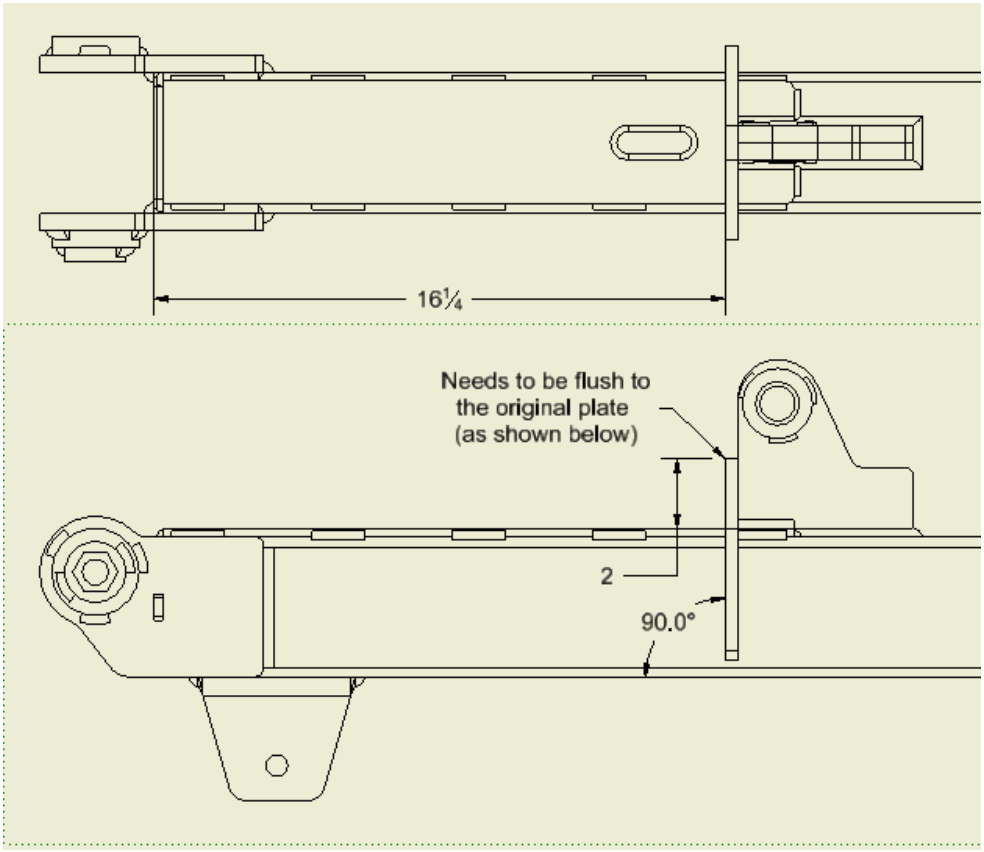


11. Place the plate in the original location on the boom arm. Tack the part into position.

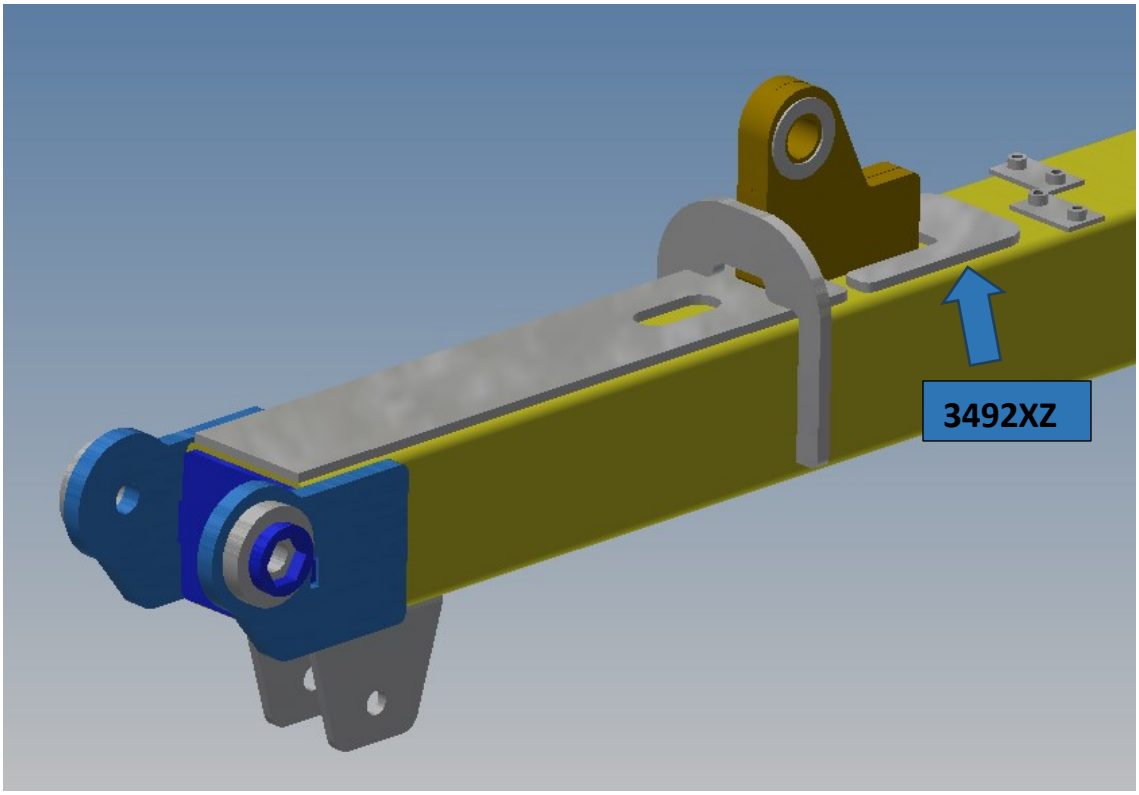


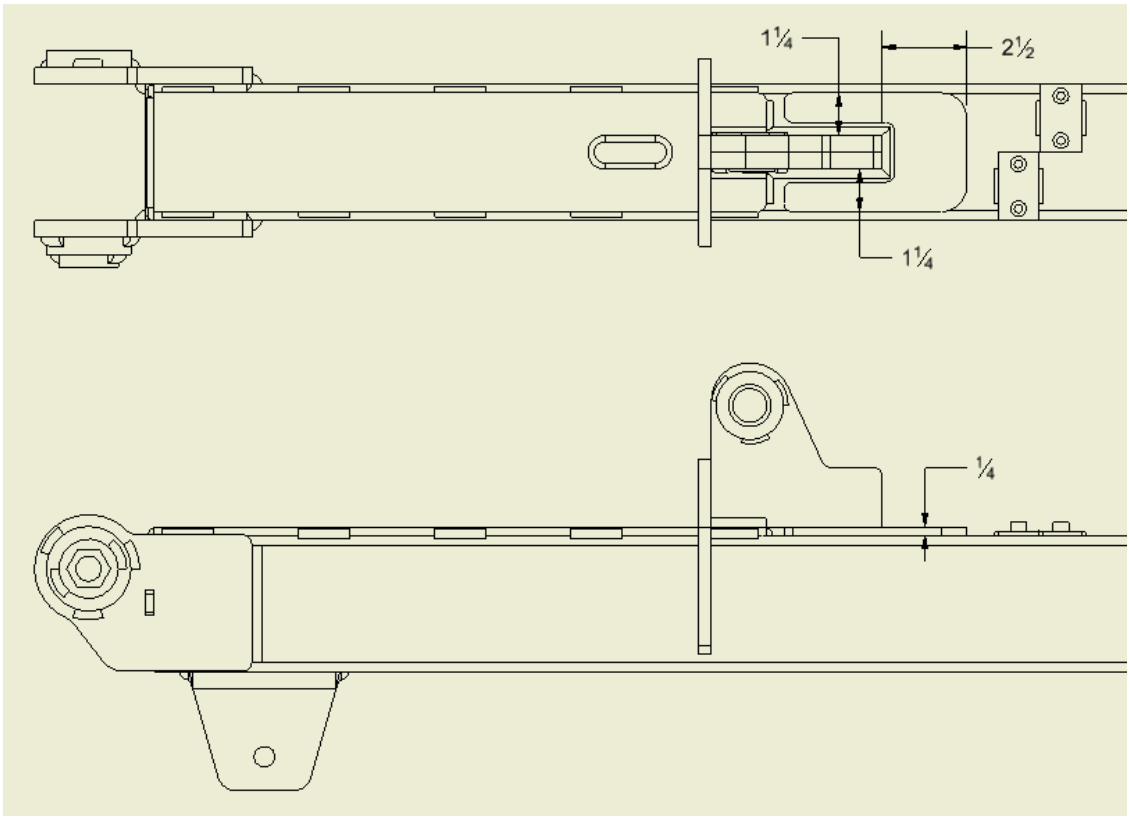
12. Now place 3491XZ in the location shown below. Tack into position. You may have to grind some existing weld on the plate for 3491XZ to be flush against the plate.



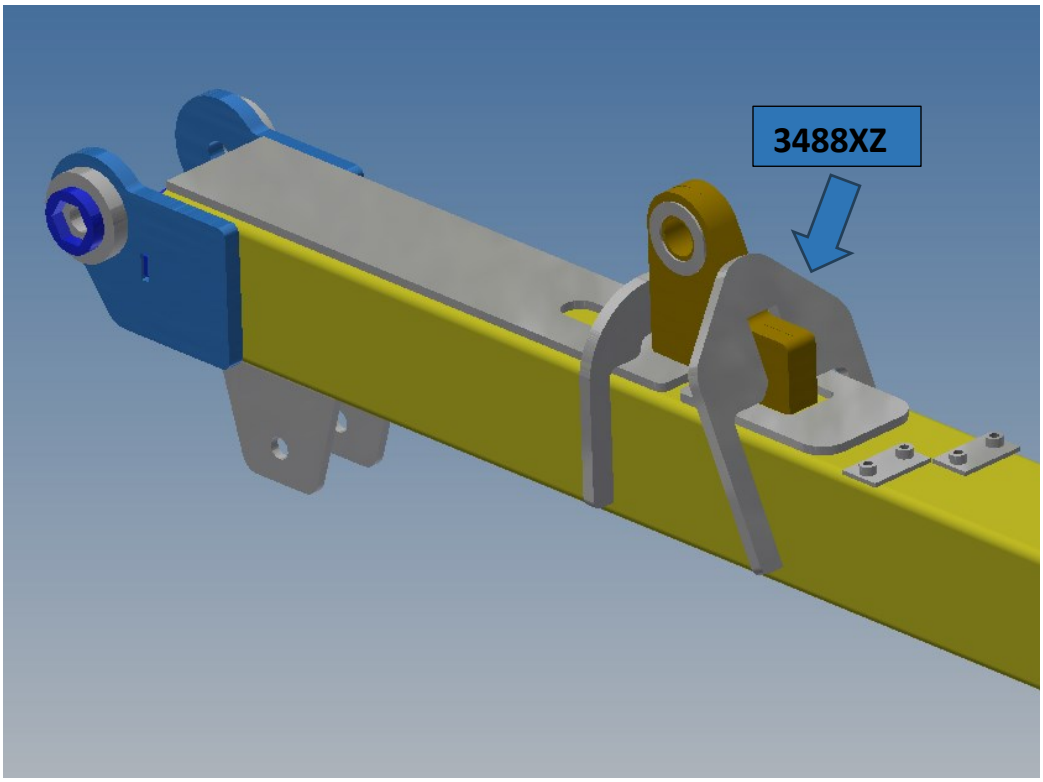


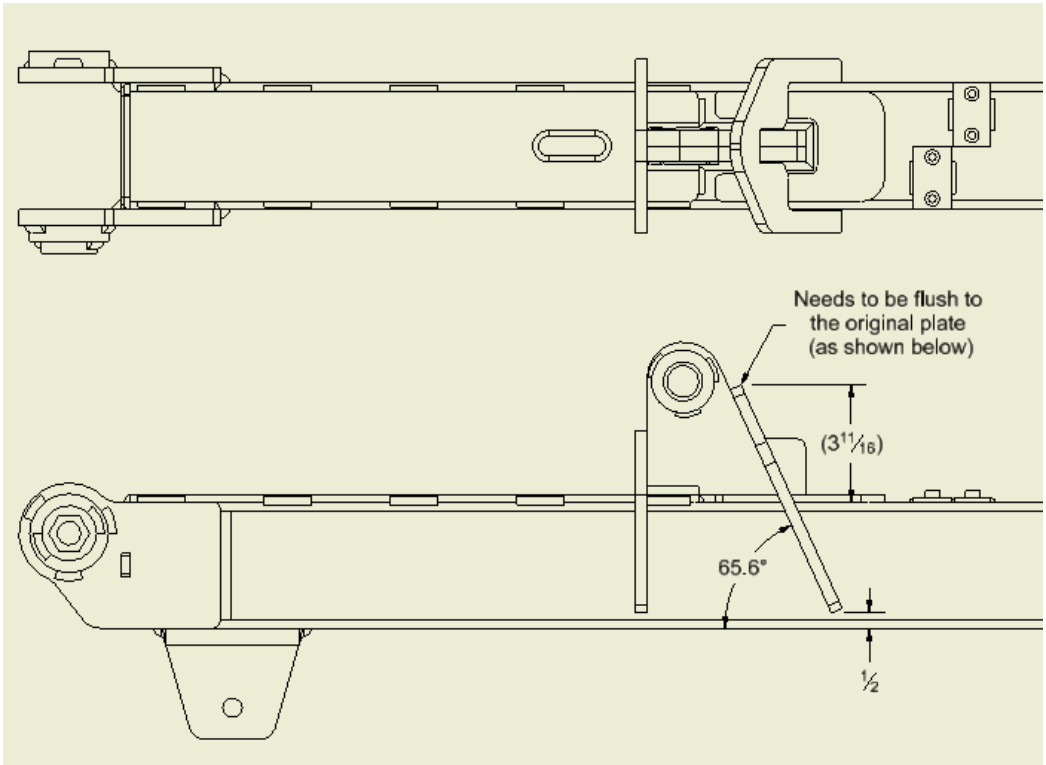
13. Place 3492XZ in the location shown below. Tack into position.



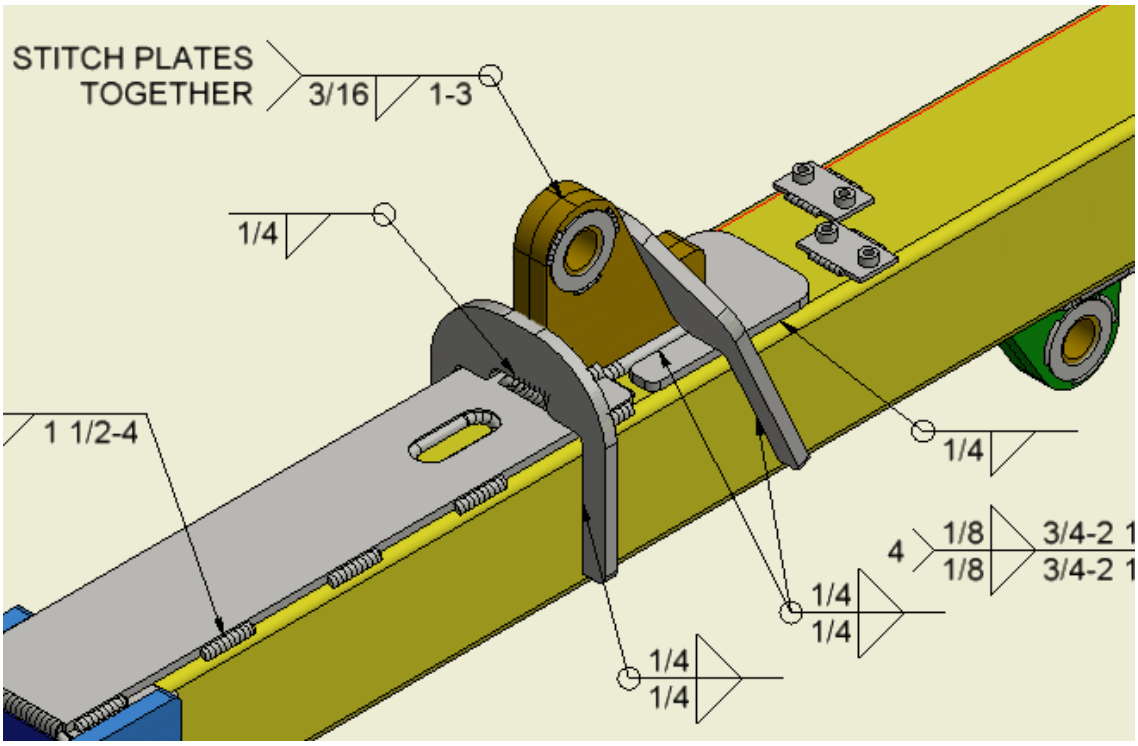


14. Then place 3488XZ in the location shown below. Tack into position. You may have to grind some existing weld on the plate for 3491XZ to be flush against the plate.

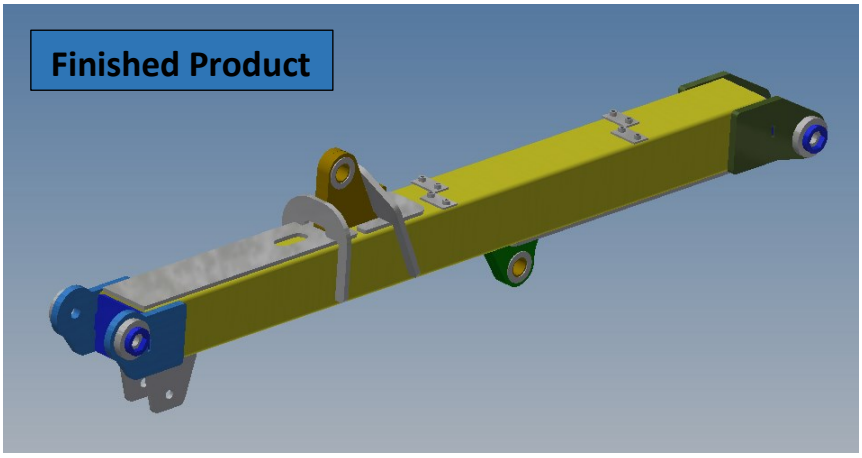




15. With all the pieces tacked into place. Double check locations of parts and fitment. Weld parts together based on the weld drawing below. All 3 parts will get welded solid to the original plate. Before you begin welding make sure the area is safe and there are no flammable materials around the area.



16. With the assembly welded in place. Allow the part to cool down before reassembling the hydraulic cylinder and boom arm connection.
17. Connect the hydraulic cylinder and boom arm in reverse order from removing it in the earlier steps of this TSB.
18. Test boom function to make sure it is operational and there is no visual sign of deflection coming from the repaired area.
19. Your installation is now complete!



Supplemental Materials

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