

2007-2017 JK Dana 30 or Dana 44 Front Truss Installation

[Assembly Drawing](#)

- Installation of this product requires a competent welder!
- A factory service manual is required for disassembly/reassembly of components the vehicle.

Tools needed:

- Welder
- Grinder
- Eye Protection
- Proper Foot Wear and Other Applicable Safety Equipment
- Factory Service Manual

Step 1:

Remove the front axle from your vehicle. Refer to your factory service manual for proper procedure.

Step 2:

Test fit the truss on the axle to verify fitment before performing any welding. Use a grinder to remove any paint that will be in the areas that you will be welding.

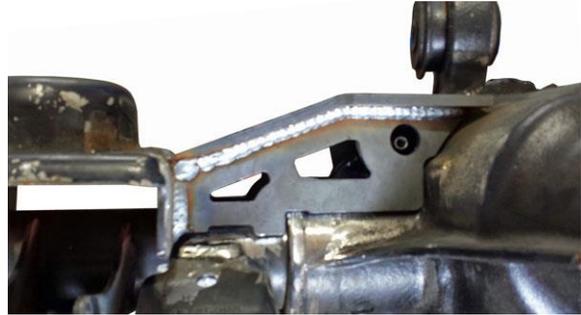
Step 3:

Start on the driver's side of the axle (the side with the shortest axle tube). Place the top and two side pieces in their proper location. Apply small "tack welds" from the top piece of the truss to the spring bucket, and from the top of the truss piece to the axle center section. Then apply "tack welds" inside of the "keys" on the top truss piece. You should now have the three pieces on the driver's side held together and held to the axle with "tack welds".



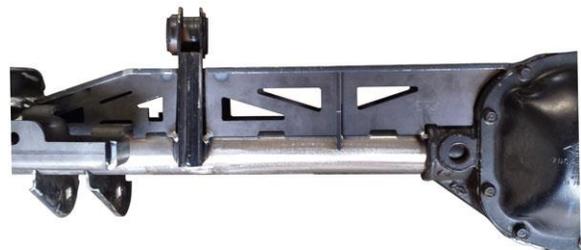
Step 4:

Now the three pieces that you just installed need to be welded together. Make sure that you weld all of the pieces of the truss together before welding them to the axle tube to prevent warpage. Weld the top part of the truss to the two side pieces, and weld the top and side pieces to the spring bucket. Then weld them to the axle center section. Do not weld anything to the axle tube yet.



Step 5:

Now it is time move to the passenger side of the axle. If you are installing our heavy duty track bar bracket at the same time you are installing our front truss, place all of the pieces on the axle except the back piece closest to the steering knuckle. Tack all 5 pieces together, then to the axle housing, spring bucket, and upper control arm bracket. If installing our heavy duty track bar bracket, tack it in its proper location. If you are not installing our track bar bracket you can go ahead and tack all 6 pieces together.



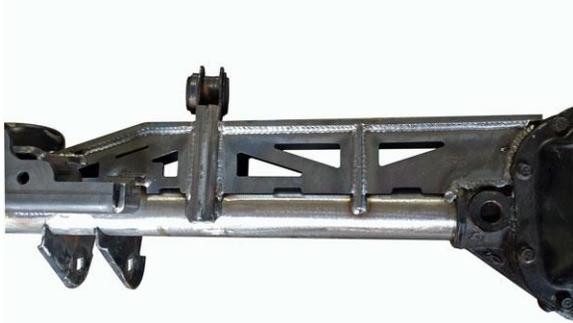
Step 6:

(Skip this step if not installing our track bar bracket)

Move to the backside of the axle. Weld the tab for the track bar bracket to the axle tube where it contacts it. If desired weld the same tab on the track bar to the side piece of the truss on the inside of the truss. Now position the truss side plate on the back of the truss and tack into place.

Step 7:

Weld the 4 side plates and the center brace to the top plate on the passenger side of the truss, weld the truss to the axle housing center section, the upper control arm bracket, and the coil spring bucket on the front and backside of the truss.



Step 8:

Now it is time to weld the truss to the axle tubes. Welding one section at a time and moving to another part of the axle is essential here to prevent warpage of the axle housing. It is also a good practice to allow the assembly to cool between welds. Weld any areas of the truss or the track bar bracket (if installed) at this time that have not been welded.

(Backside of truss shown in image. Weld to housing not completed in picture.)



Step 9:

Apply paint or other rust preventative measure to all bare metal sections of assembly.

Step 10:

Using the factory service manual as a guide for your vehicle, install the axle and all corresponding parts in the Jeep.

Step 11:

Cycle the front suspension on the Jeep to check for interference with any other components of the Jeep.

Congratulations!

You are now finished installing you new axle truss.

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