



INSTALLATION INSTRUCTIONS Samsoffroad.com CROSSMEMBER KIT

The Samsoffroad.com Cross member is designed to provide a sturdy mounting point for the Samsoffroad.com Traction Bar. The mandrel formed tubing used to make the crossmember is capable of withstanding the abuse of offroad situations while adding strength to the chassis.

PARTS LIST

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| 1) Mandrel Formed Crossmember Tube | 4) Frame Mounting Brackets |
| 4) 7/16 X 4-1/2" Hex Head Bolts & Nuts | 1) T-Mount & Shackle Bushings |

INSTALLATION

1. Jack up the vehicle and support it in four places with jack stands. Make sure the vehicle is level front to back and side to side.
2. Tack the Traction Bar Brackets to the axle housing, preferably driver side and as close to the differential housing as possible. Make sure to measure the bushing width of the traction bar so you'll know the spacing on your brackets.
3. Mount the crossmember T-Mount on your shackle that's on the traction bar. The T-Mount needs to be on the bottom of the shackle and the traction bar at the top of the shackle.
4. When installing the traction bar it can be confusing on what angle to set it. We like using the drive shaft angle as a reference.
5. Once you have your traction bar angle in the ballpark. Snug down the T-Mount in the shackle with the notched end of the tube facing to the front of your rig. When looking at the T-Mount from the driver side it should be pointing at an **eight** or **nine** o'clock position.
6. With the traction bar tacked in, shackle & T-Mount in place. You've got a better idea where the crossmember will need to go.
7. Mock up crossmember to the frame, hoop downward under drive shaft. The frame mounting brackets are 2 to a side. They will be sandwiched between the frame. You will have to experiment a little on positioning these brackets. On most applications you'll have to mount the crossmember at the bottom of the frame.
8. **Shackle angle on traction bar.** Like we said before, the notched end of the T-Mount needs to be pointing to the front of your rig so it can be tacked to the crossmember. With that in mind the traction bar shackle needs to be at a **one** o'clock position.

clock position, not straight up at a 12 o'clock position. That means if you're looking from the driver's side. The shackle will be tilted back.

9. Once you get the frame brackets in position and marked for drilling, tube where you like it and T-Mount tacked. Remove it so you can fully weld the T-Mount and frame brackets to the tube.

Note. Tube will be a little long on each side and sticking out of frame bracket so cut excess off.

10. Re-install the crossmember into position ensuring that shackle angle looks correct.

11. If all measurements check out, finish welding traction bar mounts to axle housing.

After installation is complete you can test the vehicle to see if the setting is correct. You can adjust the angle of the traction bar by screwing in or out the rear top mount of the traction bar. Once you get desired adjustment, tighten jam nut.

Samssoffroad.com invented this traction bar and crossmember concept in 1996. There are a number of companies that have copied our design and in knowing that we are proud. Copying what one does is the best form of flattery.

Sam Patton
Samssoffroad.com
Established 1984

Questions? Phone: (918-446-5535) or email staff@samssoffroad.com