

# Baja Customs

## Install Instructions BC-5033, BC-5033P, Trac-inator 05-16 Ford, F250, F350 4x4's 05-17 F450, F550 4x4's

**Warning: Baja Customs Off-Road LLC recommends professional automotive knowledge when installing this kit to avoid possibility of injury and damage to vehicles.**

Notice: After installation of this kit a wheel alignment may be required. Check and maintain proper tire air pressure. Steering stabilizers are recommended for trucks running larger than stock tires. A trac-bar drop bracket is required for any lift over 4 inches.

### Tools Required

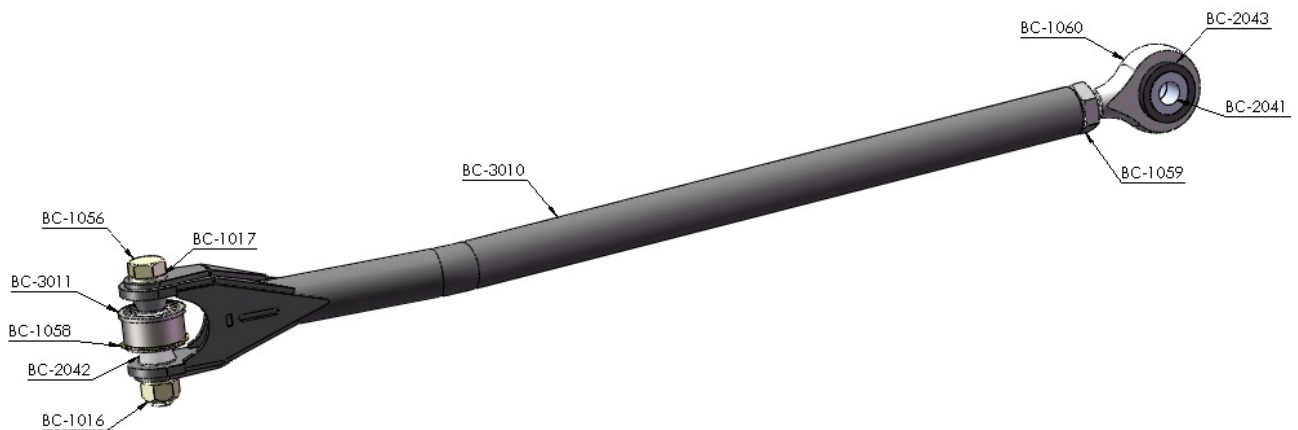
- Ball-joint pickle fork, large
- Ball-joint press
- 30mm, 1-1/8in, 1-5/8in, socket and wrench sizes
- Plastic/rubber mallet
- Retaining ring pliers

### Instructions:

1. Before removing the stock trac-bar, record a measurement from the center of the ball joint mount to the center of the bushing frame mount, or any horizontal location on the axle to the frame. (This measurement will help you in step 13, adjust the Trac-inator close to your stock trac-bar length and keep the axle centered under the frame.)
2. Begin by removing the stock trac-bar at the axle balljoint mount first. Remove the ball-joint nut and use a large pickle fork to release the bar from the balljoint.
3. Remove the stock bolt and nut from the trac-bar frame mount, do not discard, they will be re-used on Trac-inator. Remove the stock trac-bar.
4. Using a Ball-joint press, remove the ball-joint from the axle mount. Depending on the type of press you use, you may have to cut off the threaded end of the ball-joint to fit the press over the ball-joint.
5. After the ball-joint is removed, make sure the ball-joint hole is clean and free of burrs. Apply a thin layer of lubricant to the ball-joint hole and to the outside of the Uniball cup assembly (BC-3011).
6. Place the Uniball cup assembly in the top side of the ball-joint hole. Make sure the Uniball cup assembly is concentric in the hole and proceed to hammer it in with a rubber or plastic mallet. If a mallet is not working you will need to use the Ball-joint press to press it all the way down until the cup lip bottoms out. **Be sure when using the ball joint press to only put force on the cup wall, NOT on the bearing in the center.**
7. Install the External retaining ring (BC-1058) onto the bottom of the Uniball cup Assembly.
8. Insert the Uniball hi-miss spacers (BC-2042) into the center of the Uniball cup assembly.
9. Install the forked end of the Main bar (BC-3010) over each of the Uniball hi-miss spacers and Uniball cup assembly. Insert the 3/4"x 4-1/2 bolt (BC-1056) thru all, with washers (BC-1017) on either end, and hand tighten the nut (BC-1016).
10. Install the 1.00" Jam nut (BC-1059) onto the 1.00" Heim Joint (BC-1060) shaft. Then thread the 1.00" heim joint into the end of the Main bar, leaving approximately 3/16" of thread exposed between the jam nut and heim joint.

11. Insert the Heim spacers (BC-2041) into the Heim joint bearing. Place the Delrin isolators (BC-2043) over the Heim spacers.
12. Install the Heim joint and spacers into the trac-bar frame mount and insert the stock bolt.  
**Note:** If you have a Fabtech frame mount you may need to clearance the mount to fit the Heim joint in correctly.
13. Using the same measurement locations as you did in step 1, measure the points again. Adjust the length of the bar by threading the heim joint in or out, to match your measurement in step one. **Note:** You will have to remove the bolt and heim joint from the frame mount in order to thread the heim in or out for adjustment.
14. Once the bar is adjusted correctly tighten all the nuts and bolts including the jam nut on the heim joint. Torque the trac-bar frame mount bolt (20mm stock bolt) to 350ft.lbs. and the trac-bar axle mount bolt (BC-1056) to 300ft.lbs.
15. Take the truck to a good alignment shop, and re-torque the bolts after 1k miles.

Parts List		
QTY	PART NO.	DESCRIPTION
1	BC-3010	Main bar, link
1	BC-3011	Uniball cup and bearing assembly
2	BC-2041	Heim spacer, 20mm ID
2	BC-2042	Uniball Hi-miss spacer, 3/4 ID
2	BC-2043	Delrin isolator, hiem stopper
1	BC-1016	3/4" fine c-locknut
2	BC-1017	3/4" washer
1	BC-1056	3/4" x 4- 1/2" fine thread bolt, grade 9
1	BC-1058	External Retaining Ring
1	BC-1059	1.00" fine thread Jam nut
1	BC-1060	1.00" Heim joint, Right hand



**Uniball and Hiem Replacement Part Numbers:**

- Standard uniball (QA1,COM16T) and hiem (KMX16T). **BC-5033**
- Upgraded uniball (FKSSX16T) and hiem (JMX16T). **BC-5033P**, For longer life and better corrosion resistance.

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