TRAIL FORTRESS

BUILT FOR THE TRAIL. CHECKED FOR YOUR TRUCK.

Rough Country 10565 Installation Instructions

Front Axle Truss and C-Gusset Kit for Jeep Wrangler JK (2007-2017)

Part number: 10565

trailfortress.com/front-axle-truss-and-c-gusset-kit-jeep-wrangler-jk-rough-country-10565

Scan for fitment, price and install help

ROUGH COUNTRY SUSPENSION SYSTEMS®

10564BAG

JEEP JK Dana 30 Axle C-Gussets

Thank you for choosing Rough Country for your suspension needs.

Rough Country recommends a certified technician install this system. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle.

Please read instructions before beginning installation. Check the kit hardware against the parts list. Be sure you have all needed parts and know where they go. Also please review tools needed list and make sure you have needed tools.

PRODUCT USE INFORMATION

⚠WARNING As a general rule, the taller a vehicle is, the easier it will roll. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

Generally, braking performance and capability are decreased when larger/heavier tires and wheels are used. Take this into consideration while driving. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Rough Country product purchased. Mixing component brands is not recommended.

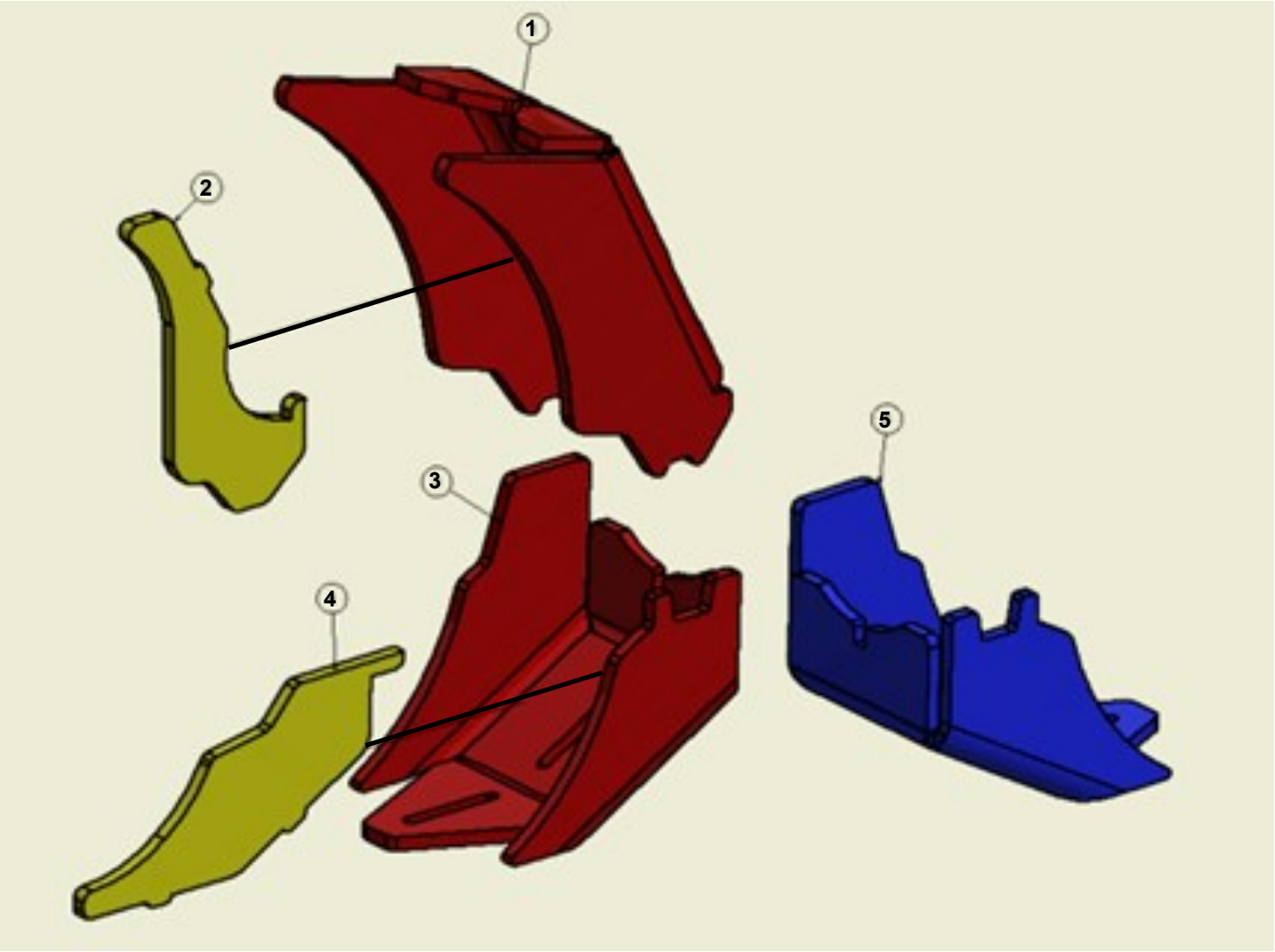
Rough Country makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any product that is altered.

If questions exist we will be happy to answer any questions concerning the design, function, and correct use of our products by calling 1-800-222-7023.

⚠NOTICE NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Rough Country product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics.

INSTALLING DEALER - it is your responsibility to install the warning decal and forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service life.



1. Upper C-gusset. x 2
2. Upper C-gusset spine. x 2
3. Pass lower C-gusset.
4. Lower C-gusset spine. x 2
5. Driver lower C-gusset

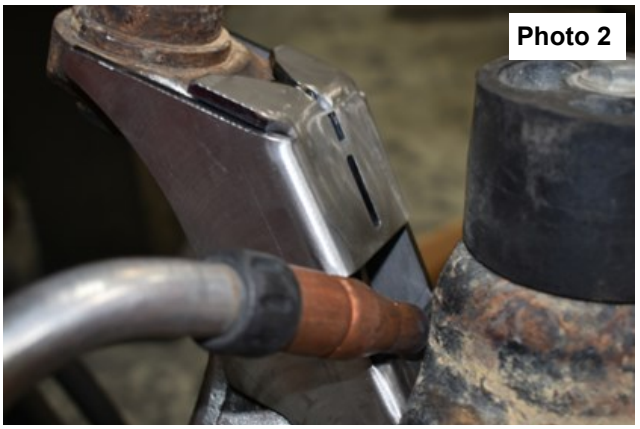
Install Instructions

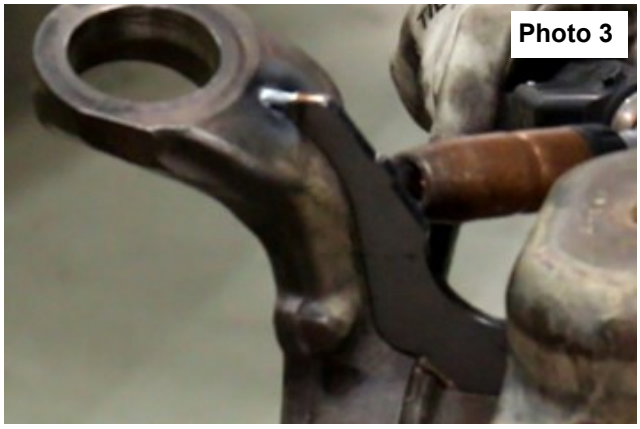
⚠ NOTICE It is recommended to remove your axle from the vehicle to achieve best results. Remove any components on the axle that may be damaged during welding including but not limited to: ball joints, bushings, differential cover and assembly, tie rods, axle seals, axle bearing races, and axle breather tube.

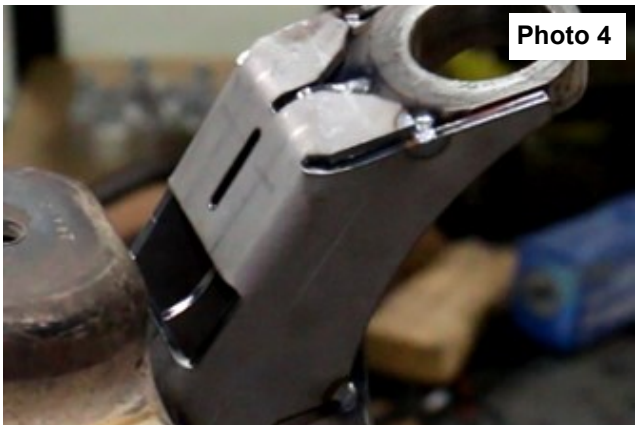
1. Place the C-gussets with the spines on the axle and confirm all fitments. Use a marker or paint pen to mark everywhere that the truss contacts the axle.
2. Remove the C-gussets and spines and use a sander, wire wheel, or flapper disk to thoroughly clean the axle around ALL marked locations. It is crucial that bare metal is exposed along the entire weld surface to ensure good weld penetration.

3. Identify pieces 1 and 2 that will be installed on the upper side of the inner C's. Place the inner gusset (2) into the upper bracket (1) and align on the upper inner C. Note: you will have two pairs of these components and they can be used on either side. Tack weld the two protruding points on the top and bottom of the internal gusset. There will be one against the spring perch and another sticking out of the topside of the bracket. Remove the bracket and place a 2 inch stitch weld on both sides of the internal gusset. Once those welds have cooled, replace the outer bracket and tack it into place. While that side is cooling, move to the opposite side of the axle and repeat these steps for the other upper gusset. When all welds cool, fully weld the outer bracket to the inner C and plug weld the bracket to the inner gusset. To allow for proper drainage, **DO NOT** weld the lower trapezoidal cutout closed. **See Photos 1-4.**







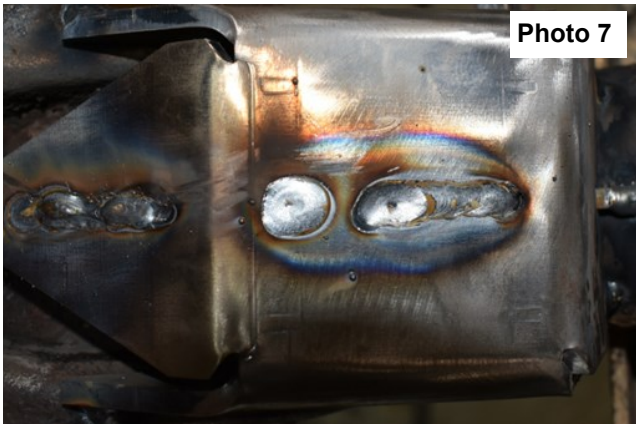


4. Identify pieces 4 and 5 that will be installed on the driver lower side of the inner C. Note: the internal gusset (4) will be symmetrical for both sides, however, the lower driver bracket (5) can only be used on one side. Place the internal gusset into the lower bracket and align on the lower C. Rotate the assembly forward until the notched side contacts the factory sway bar bracket. Once aligned, tack weld the protruding sections of the internal gusset similar to the upper gusset assembly. Remove the bracket and place a 2 inch stitch weld on both sides of the inner gusset. Once those welds have cooled, replace the outer bracket and tack it into place. While that side is cooling, move to the opposite side of the axle and repeat these steps for the other lower gusset (3). When all welds cool, fully weld the outer bracket to the inner C and plug weld the bracket to the internal gusset. To allow for proper drainage, **DO NOT** weld the lower trapezoidal cutout closed. **See Photos 5-7.**





5. Tape off the press fit surfaces for the ball joints and use several coats of paint to cover any exposed bare metal on the axle. This is crucial to prevent corrosion on your newly strengthened axle.
6. Reinstall all removed items such as ball joints, axle seals, and breather tubes. Reinstall the axle onto the vehicle being sure to follow all factory torque specifications.



By purchasing any item sold by Rough Country, LLC, the buyer expressly warrants that he/she is in compliance with all applicable , State, and Local laws and regulations regarding the purchase, ownership, and use of the item. It shall be the buyers responsibility to comply with all Federal, State and Local laws governing the sales of any items listed, illustrated or sold. The buyer expressly agrees to indemnify and hold harmless Rough Country, LLC for all claims resulting directly or indirectly from the purchase, ownership, or use of the items.