

IRON ROCK OFF ROAD

JK Front Adjustable Short UCA Installation Instructions

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JK 2007-2017 Jeep Wrangler

Parts Checklist:

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Literature (instructions) <input type="checkbox"/> Invoice <input type="checkbox"/> IRO mountain decal 11976 (2) <input type="checkbox"/> Female End 80027 (2) <input type="checkbox"/> Male end 80025 (2) | <ul style="list-style-type: none"> <input type="checkbox"/> #185 2" Flex End Hardware 13311 (2) <ul style="list-style-type: none"> <input type="checkbox"/> End Cap 91124 (2) <input type="checkbox"/> Race 91123 (2) <input type="checkbox"/> 12mm Ball 91122 (1) <input type="checkbox"/> 5-40 X 1-1/4 SHCS (9) <input type="checkbox"/> 3/32 Hex L-key (hex plus) (1) <input type="checkbox"/> 1/4-28 Straight grease zerks (1) | <ul style="list-style-type: none"> <input type="checkbox"/> #186 Clamping Hardware 13312 (2) <ul style="list-style-type: none"> <input type="checkbox"/> 3/8-16 X 1-1/4 Hex bolt gr8 (1) <input type="checkbox"/> 3/8-16 Nylock flange nut gr8 (1) <input type="checkbox"/> 3/8 Mil spec washer (1) |
|---|---|---|



Installation Instructions

Safety Warning:

We recommend that these components be installed by a qualified professional. Knowledge of suspension component function is necessary for safe installation and post installation inspections. Be sure to re-torque all suspension components after the first 100 miles of use, and frequently inspect all safety critical suspension components.

Before you begin:

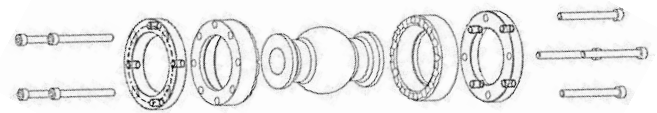
- Read all safety warnings.
- Read and understand installation instructions.
- Contact Iron Rock Off Road with any questions before, during, or after installation.
- Ensure that all parts are present and in good condition using the included parts checklist.
- Be sure you have the following tools and supplies:
 - Floor jack and jack stands
 - Basic hand tools
 - Multi-purpose grease
 - Anti-seize compound

<u>Lift Height</u>	<u>UCA Length</u>
OEM	18-3/4"
2.5"	18-15/16"
3.5"	19-1/16"
4"	19-3/16"
4.5"	19-1/4"
5.5"	19-1/2"
6.5"	19-7/8"
8"	20-3/8"

Figure 1

Prepare parts for installation:

1. Locate control arms and male threaded ends. Lightly coat male threads with anti-seize compound. Install threaded male end into female end.
2. Locate hardware kit 185. Assemble flex ends into female end as follows:
3. Insert two 5-40 socket head cap screws into one end cap and one race. Spherical bore of race facing away from end cap.
4. Install this small assembly into the flex end housing. The races are a tight fit, use a hammer and a wide punch to assist you if needed.
5. Apply a thin coating of multi-purpose grease to the mating surfaces of the ball and both races.
6. Place the ball in the race (inside the flex end). The ball should perfectly fit the contour of the race.
7. Insert the other race onto the ball so that the spherical bore is contacting the ball. Once again, the races are a tight fit, use a hammer and wide punch if needed. (The two screws should be through one washer and both races at this point).
8. Insert the second end cap in the flex end housing, sliding the bolts through the holes.
9. Start threading the two bolts that are in the flex end assembly.
10. Insert the remaining six cap screws through the remaining holes.
11. Snug up all of the bolts fairly tight.
12. Torque bolts evenly starting at one bolt using a crisscross pattern, like torquing lug nuts. Torque all eight bolts to 20 in/lbs.
13. Adjust length based on the chart in **figure 1** as a starting point. This chart assumes you are using longer lower control arms. If not, use OEM length.
14. Locate hardware kit 186. Align male end and female end to each other. Install and tighten thread clamping bolts.
15. You should now have two completely assembled control arms.



Installation:

16. Lift front of vehicle and support with tall jack stands under the unibody frame.
*Tip: break lug nuts loose before lifting vehicle.
17. Ensure that vehicle is safely supported.
18. Remove front tires.
19. Loosen all upper control arm bolts (remove nuts but leave bolts for now).
20. Place a floor jack under the driver's side of front axle for support (do not lift vehicle).
21. Remove upper control arms from the Jeep and install the new ones. Re-use original fasteners. Do not tighten nuts at this time.
22. Install front tires.
23. Raise vehicle from jack stands and place jack stands under the axle.
24. With the vehicle's weight on the suspension, torque upper control nuts to 60 foot pounds.
25. Torque lug nuts to spec.
26. Torque any other loose bolts to spec.



Adjustments and Safety Inspection:

27. Check all components for clearance for suspension to fully cycle up and down and wheels to turn lock to lock.
28. A professional front end alignment is recommended after installation.
Recommended caster setting: +3.75 to +6.0 (+4.5 degrees is recommended unless a different setting is required for proper driveshaft running length)
Recommended toe in setting: 0 degrees

* Re-torque all fasteners, including lug nuts, after 100 miles, and frequently inspect all safety critical suspension components.