



# D1411/D1412 Installation Instructions

## 2013-2014 Ram 1 Ton 4WD & 2014 Ram 3/4 Ton 4WD

### Heavy-Duty Replacement Radius Arms

Live Chat @ [www.zoneoffroad.com](http://www.zoneoffroad.com) • Website [www.zoneoffroad.com](http://www.zoneoffroad.com) • Email [tech@zoneoffroad.com](mailto:tech@zoneoffroad.com) • Call 888.998.ZONE

**Read and understand all instructions and warnings prior to installation of product and operation of vehicle.**

#### Difficulty Level

easy 1 2 **3** 4 5 difficult

Estimated installation: 2 hours

#### » PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

**\*Important\* Verify you have all of the kit components before beginning installation.**

#### Pre-Installation Notes

1. The following instructions outline the installation of the heavy-duty radius arms as an upgrade to a previously install lift. If installing a new complete Zone Offroad lift system, follow the instructions included with the main component box kit and disregard these instructions.
2. This kit is intended for use on vehicles with 4-6" of lift. The new radius arms are designed to mount in the factory frame and axle locations. If the current suspension lift installed has relocation brackets mounted to the frame they will need to be removed.
3. These instructions will outline the installation as an upgrade to an existing kit. All lifts are different and may require more modification than outlined depending on the style/manufacturer of the lift. Read the instructions completely before beginning the installation. If you have further questions contact Zone Offroad tech support or the manufacturer of your current lift before beginning.

#### Kit Contents

Qty	Part
1	Radius Arm - Driver's - D1411
1	Radius Arm - Passenger's - D1412
4	Bushing
2	Sleeve
2	Grease Fitting

#### Installation Instructions

1. Park the vehicle on a clean, flat surface and block the rear wheels.
2. Determine the amount of lift previously installed on the vehicle. This radius arm kit is designed to work with 4-6" of lift.
3. Raise the front of the vehicle and support with adequate jack stands so that the radius arms are free to move and the weight of the vehicle is off the front axle.
4. Remove the front wheels.
5. Support the front axle with a hydraulic jack. Working on the passenger's side first, remove the factory radius arm from the axle and frame. Save all hardware.
6. If equipped, remove any aftermarket frame relocation brackets that may be installed. The factory frame bracket must be used with the new radius arms. Inspect the factory bracket to ensure it is unmodified and completely intact.

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## Step 8 Note

*It may not be possible to get all 3 bolts installed because of the rotation of the axle. If this is the case, install the frame and top axle bolts first. The cam bolt will be installed once the driver's side radius arm is removed.*

7. Locate the new radius arms. They are driver's and passenger's side specific. The passenger's side arm comes in kit #D1412. Lightly grease and install the provided bushings and sleeves. Install the provided grease fitting in the threaded hole in the bushing eye.
8. Install the new radius arm with the factory frame and axle mounting bolts, including the factory cam bolts. The arm will offset inward (bent plate facing out) to provided maximum tire clearance when the wheels are turned. Leave hardware loose.
9. Remove the driver's side radius arm and any brackets as done on the passenger's side. If all 3 mounting bolts were not installed on the passenger's side arm, do so before removing all the driver's side bolts by removing the driver's side cam bolt and rotating the axle to align the passenger's side.
10. Repeat the radius arm installation on the driver's side.
11. With the installation of both radius arms complete, install the front wheels and lower the vehicle to the ground.
12. Bounce the front of the vehicle to settle suspension. Position the front cam bolts so that the bolt head is as far forward as possible. Torque all 6 radius arm bolts to 200 ft-lbs.
13. Check all hardware for proper torque. Check hardware again after 500 miles.
14. Grease the new radius arm frame bushings with a lithium-based chassis grease.
15. The vehicle will require a complete front end alignment.
16. Depending on the original lift setup, some vehicles may require further front driveline adjustment/modification.