



INSTALLATION GUIDE

PART NUMBER: 5320A
CONTROL ARM DROP BRACKETS
RAM 1500 2WD / 4WD | 2019+
****NEW GENERATION 6 LUG MODELS ONLY****

300 W. PONTIAC WAY. CLOVIS, CA 93612
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THANK YOU

Thank you for choosing our high quality Belltech product. We have spent a great deal of time developing our line of products so that you will receive maximum performance with minimal difficulty during installation. Soon your vehicle will be on the road looking and feeling much improved.

Please take a moment to read all instructions and warnings prior to installation of your new Belltech product and before operating your vehicle. If you have any questions or concerns regarding any step in the installation process, please do not hesitate to call or email our customer support specialists who are trained to help you through any portion of this process.

Before You Begin:

It is of the utmost importance that you confirm all of the components listed on the parts list is in the kit. You can find this list located on the last page(s) of your instructions. Do not begin installation if any part is missing. Instead, please call our Belltech customer service specialists.

Belltech Customer Support:

Phone: 1-800-445-3767

Email: info@belltech.com

Safety Information:

Warning: Do not work under a vehicle supported only by a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Proper use of safety equipment and eye/face/hand protection is absolutely necessary when performing any of the following instructions.

We strive for an exceptional experience for all our valued customers. If for any reason you need assistance with your Belltech products, please do not return the product to the store you purchased from, but rather call our dedicated customer service experts, from 7am to 5pm PST.

We recommend that a qualified mechanic, at a properly equipped facility, perform this installation.

It is very helpful to have an assistant available during installation.

Before Driving Your Vehicle:

It is important to double check all brake hoses, cables, and other components to be sure there is no interference. You must also check for wheel/tire to chassis/body interference. If any issues are found, review your installation instructions to be sure no steps were missed and any problems are corrected.

Make sure your vehicle is aligned immediately following installation.

Check all hardware and re-torque at intervals for the first 10, 100, and 1000 miles.

Some of Belltech's products are designed to improve your vehicle's off-road performance. Leveling/lifting your vehicle may result in an altered center of gravity. It is crucial to use extreme care when operating your vehicle to prevent rollover and/or loss of control.

Any changes in your vehicle's suspension may result in transformed handleability. Please test-drive your vehicle in a remote location so you can become accustomed to the revised driving characteristics.

Perform a headlight check and adjustment.

Failure to drive any modified vehicle in a safe manner may result in harm or death.

Never operate your modified vehicle under the influence of drugs, alcohol, or lack of adequate sleep.

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME: 2-3 Hours

RECOMMENDED TOOLS:

- Properly rated floor jack
- Transmission jack
- Wheel chocks
- Safety glasses
- Metric socket wrench set
- Metric wrench set

SPECIALTY TOOLS:

- Torque wrench up to 200 ft lbs.
- Die grinder equipped with abrasive cut-off wheel
- Spray paint

JACKING, SUPPORTING, AND PREPARING THE VEHICLE

1. Park your vehicle on a smooth, level, concrete or seasoned asphalt surface.
2. Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or 1st gear (manual).
3. Activate the parking brake.
4. Break loose, but do not spin the wheel lug nuts to ease in removal when the wheels are in the air.
5. Lift the rear of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the rear tires are approximately 6-8 inches off the ground.
6. Place support stands rated for the vehicles weight. The stands should be positioned in the factory specified locations. (Refer to owners manual). Prior to lowering the vehicle onto stands, make sure the support stands will contact the chassis. It is very important that the vehicle is properly supported to prevent any harm to ones self or to the vehicle.
7. Lower the vehicle slowly onto the stands.
8. Remove the rear wheels.



Technician reminder:

Never work under a vehicle supported only by a jack. It is necessary to place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

OEM REAR REMOVAL

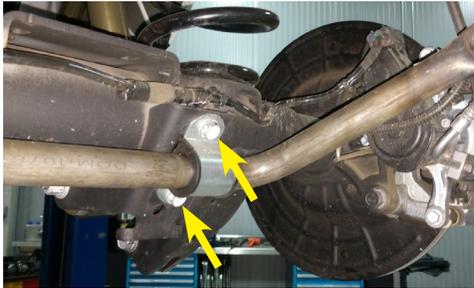
- Support the axle with a transmission jack or other suitable holding fixture.
- Remove the rear shock absorber lower nuts and bolts.
- Remove the rear brake hose bracket bolts and disconnect the brackets from both sides of the frame.



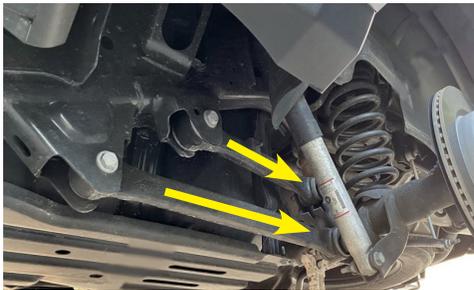
- Disconnect the sway bar end links upper bolts from the frame.



- Remove the sway bar pivot bushing bracket bolts and remove the sway bar assembly from the vehicle.



- Remove the nuts and bolts from the rear of the upper and lower control arms to disengage from the axle side. Do not remove the frame side.



- Lower the axle and remove both rear springs and rubber isolators from the vehicle. Mark the isolators to show how the locating tabs were seated in the spring pocket and where the original spring was positioned in the isolator.



Technician reminder:

Do not lower the axle more than the brake hose slack allows, brake hose damage could occur.

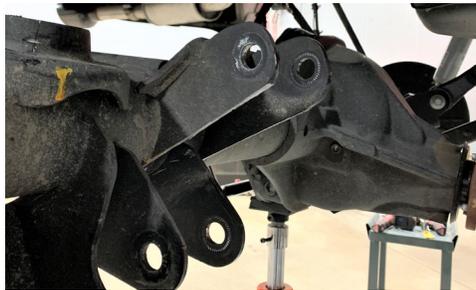
REAR INSTALLATION

PREPARE THE REAR MOUNTS FOR CUTTING AND CONTROL ARM DROP BRACKET INSTALLATION

- Using a marking pen, mark a straight line from the bottom edge of the upper control arm bracket ears to the rear of the bracket just below the welds on the axle.

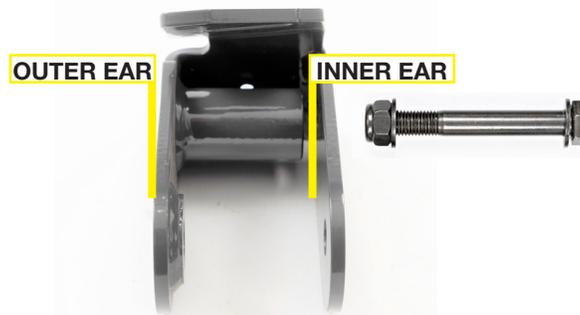


- Cut off the lower end of the upper control arm brackets with a cutting tool. Do not cut into the axle. Paint over exposed metal to prevent rust/corrosion.



INSTALLATION OF DROP BRACKETS AND HARDWARE

- Start with the upper control arm drop brackets are number 5320-030 for the passenger side and 5320-010 for the driver side.
- Slide the upper control arm drop bracket from above the original upper control arm mount ensuring the outer ear sits outside the drop bracket and the inner ear slides inside between the welded tube and drop bracket. To hold the bracket in place while the remaining hardware is installed, place a M16 x 2.0 - 120MM bolt through the original mounting hole with a M16 X 2.0 Nyloc nut and washers, DO NOT TIGHTEN.

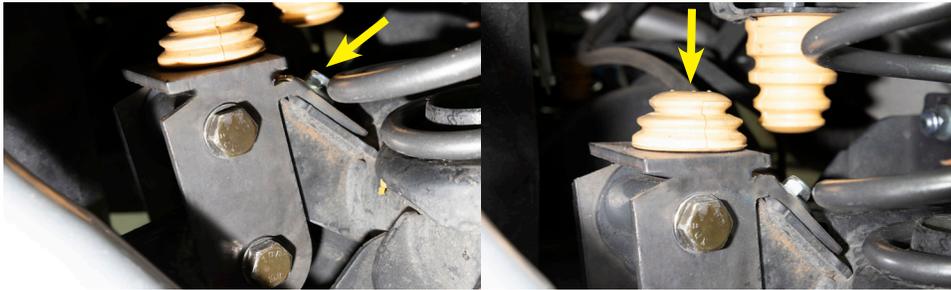


Installation Note:

Do not tighten/torque the brackets and control arms at this time, doing so may cause the vehicle to hold height or bushings to bind. It is vital to secure and torque the new control arm drop brackets once the vehicle is on the ground and supporting its own weight.

REAR INSTALLATION CONTINUED

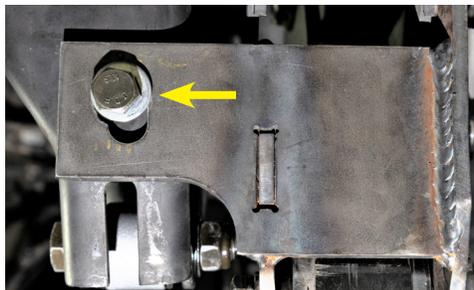
- From the rear of the upper control arm drop bracket, place a M8 bolt through the opening that leads into the inside of the original mount. Secure it with a M8 Nyloc nut. Keep the M16 x 2.0 upper bolt and nut that was used to retain the bracket tight but do not torque yet. Next, install the 1.25" tall bump stop to the top of the bracket by inserting a socket head bolt from above and secure it to the bracket.



- Locate lower control arm drop brackets. Bracket number 5320-040 for the passenger side and 5320-020 for the driver side.
- Slide the lower control arm drop bracket from under the original lower control arm mount ensuring the outer ear sits outside the drop bracket and the inner ear slides inside between the welded tube and drop bracket. To hold the bracket in place while the remaining hardware is installed, place a M16 x 2.0 - 120MM bolt through the original mounting hole with a M16 X 2.0 Nyloc nut and washers, DO NOT TIGHTEN.



- From the rear of the lower control arm drop bracket, insert a M10 bolt and M10 washer through the opening that leads into the inside of the shock mount. Secure it with a M10 Nyloc nut.



- Attach the upper control arm to the bottom of the upper control arm drop bracket and hold in place with a M16 x 2.0 - 120MM bolt and washers only.
- On the lower control arm drop bracket, remove the M16 x 2.0 nut that was used to previously to hold the bracket in place, leave the bolt in.
- Attach the lower control arm to the bottom of the lower drop bracket, hold in place with a M16 x 2.0 - 120MM bolt and washers only.

REAR INSTALLATION CONTINUED

27. Locate the control arm drop support brackets, number 5320-005 for the passenger side and 5320-003 for the driver side.



28. Place the support brackets over the 3 bolts used to hold the brackets and control arms in place during assembly. Secure the support brackets with M16 X 2.0 Nyloc nuts and washers. **DO NOT TORQUE YET.**



29. Install the coil spring with the isolator locating tabs positioned through the corresponding holes in the spring pocket and the coil spring end positioned in the same direction as originally spring installed.

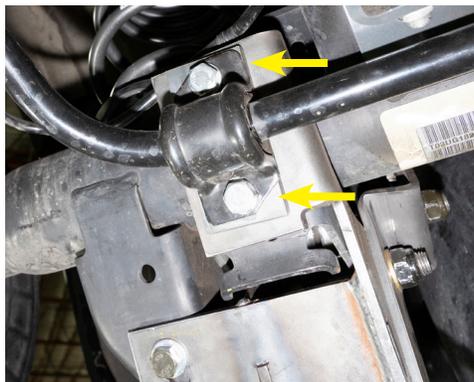
30. Raise the axle and align the shock absorber lower bolt hole to the axle bracket then install the shock absorber lower bolt and nut, do not torque at this time.

31. Reconnect the brake hose brackets to the frame then install the rear brake hose bracket bolts and torque to 16 ft lbs.

32. Install the wheels, lug nuts, and lower rear of the vehicle onto the ground to finish installation.

33. At the rear of the lower control arm drop bracket locate the mounting holes for the sway bar pivot bushing brackets.

34. Place the sway bar offset brackets number 5320-060 bracket between the lower control arm bracket and pivot bushing mounting bracket. Mount the sway bar using the provided hardware. Torque to 37 ft lbs.



REAR INSTALLATION CONTINUED

35. Connect the end links to the frame and torque the upper bolts to 41 ft lbs.

36. Torque the shock absorber lower bolts to 103 ft lbs.



37. Torque all M16 x 2.0 nuts and bolts used to retain the control arm drop brackets to 111 ft lbs. + 110° turn.

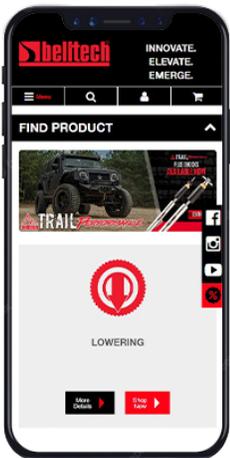


FINALIZING THE INSTALLATION

38. Torque the lug nuts to 130 ft lbs.
39. Check that all components and fasteners have been properly installed and torqued.
40. Re-read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

THANK YOU FOR CHOOSING BELLTECH.

You are now a part of the Belltech family and we are eager to catch a glimpse of your newly modified vehicle. Give us a shout out and let us know how much you love our product. Don't forget, we offer other Belltech related merchandise for you and your vehicle on our website www.belltech.com



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[Belltech Suspension](https://www.youtube.com/BelltechSuspension)



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If you have any questions, concerns, or warranty related issues regarding your Belltech product, please call or email our experienced customer service specialists.

Belltech Customer Support:

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Email: info@belltech.com

KIT CONTENTS



Rear Control Arm Drop Down Kit		
Part number	Description	Qty
5320-010-992	REAR UPPER CONTROL ARM DROP LH	1
5320-030-992	REAR UPPER CONTROL ARM DROP RH	1
5320-020-992	REAR LOWER CONTROL ARM DROP LH	1
5320-040-992	REAR LOWER CONTROL ARM DROP RH	1
5320-060-992	SWAY BAR OFFSET BRACKET	2
5320-003-992	REAR SUPPORT BRACKET LH	1
5320-005-992	REAR SUPPORT BRACKET RH	1
112309	SERRATED FLANGED BOLT	4
110239	WASHER FLAT M10	4
5320-100-777	HARDWARE KIT	1

Hardware Kit (5320-100-777)		
Part number	Description	Qty
4922-001	BUMP STOP	2
110218	M16 X 2.0 - 120MM BOLT	8
110242	M16 X 2.0 NYLOC NUT	2
110219	M16 FLAT WASHER	16
112001	8MM - 1.25 SOCKET HEAD BOLT	2
110635	8MM FLAT WASHER	2
112301	M8 X 1.25 - 25MM SERRATED BOLT	2
112147	M8 X 1.25 FLANGE NUT	2
110230	M10 X 1.25 - 25MM BOLT	2
110244	M10 X 1.25 NYLOC NUT	2
110239	M10 WASHER FLAT	4