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Dodge Adjustable Control Arms


1994-1999 4wd 2500/3500	1032030-L	
2000-2009 4wd 2500/3500		1032031-L
2010-2012 4wd 2500/3500		1032032-L

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

Kit Contents

Please check to make sure that you have all the parts listed in this kit **before** you start the disassembly of your truck.

Kit # 1032030-L					
1303206	1303221-RH	1303221-LH	1303206-5	1303225-5	1302072
					
<i>Control Arm-Center</i>	<i>Rod End (RHT)</i>	<i>Rod End (LHT)</i>	<i>Bushing Lower Control Arm</i>	<i>Sleeve (1.0 x .562x2.625)</i>	<i>Jam Nut 1"-14 (LHT)</i>
Qty: 2	Qty: 2	Qty: 2	Qty: 8	Qty: 4	Qty: 2
1302071	9.11108				
					
<i>Nut Jam 1"-14</i>	<i>Silicone Grease</i>				
Qty: 2	Qty: 2				

Kit # 1032031-L					
1303206	1303221-RH	1303221-LH	1303206-5	1303225-2	1302072
					
<i>Control Arm-Center</i>	<i>Rod End (RHT)</i>	<i>Rod End (LHT)</i>	<i>Bushing Lower Control Arm</i>	<i>Sleeve (1.0 x .688x2.625)</i>	<i>Jam Nut 1"-14 (LHT)</i>
Qty: 2	Qty: 2	Qty: 2	Qty: 8	Qty: 4	Qty: 2

1302071	9.11108
	
<i>Nut Jam 1"-14</i>	<i>Silicone Grease</i>
Qty: 2	Qty: 2

Kit # 1032032-L					
1303206	1303221-RH	1303221-LH	1303206-5	1303225-1	1302072
					
<i>Control Arm-Center</i>	<i>Rod End (RHT)</i>	<i>Rod End (LHT)</i>	<i>Bushing Lower Control Arm</i>	<i>Sleeve (1.0 x .732x2.625)</i>	<i>Jam Nut 1"-14 (LHT)</i>
Qty: 2	Qty: 2	Qty: 2	Qty: 8	Qty: 2	Qty: 2
1303225-2	1302071	9.11108			
					
<i>Sleeve (1.0 x .688x2.625)</i>	<i>Nut Jam 1"-2"</i>	<i>Silicone Grease</i>			
Qty: 2	Qty: 4	Qty: 2			

Welcome

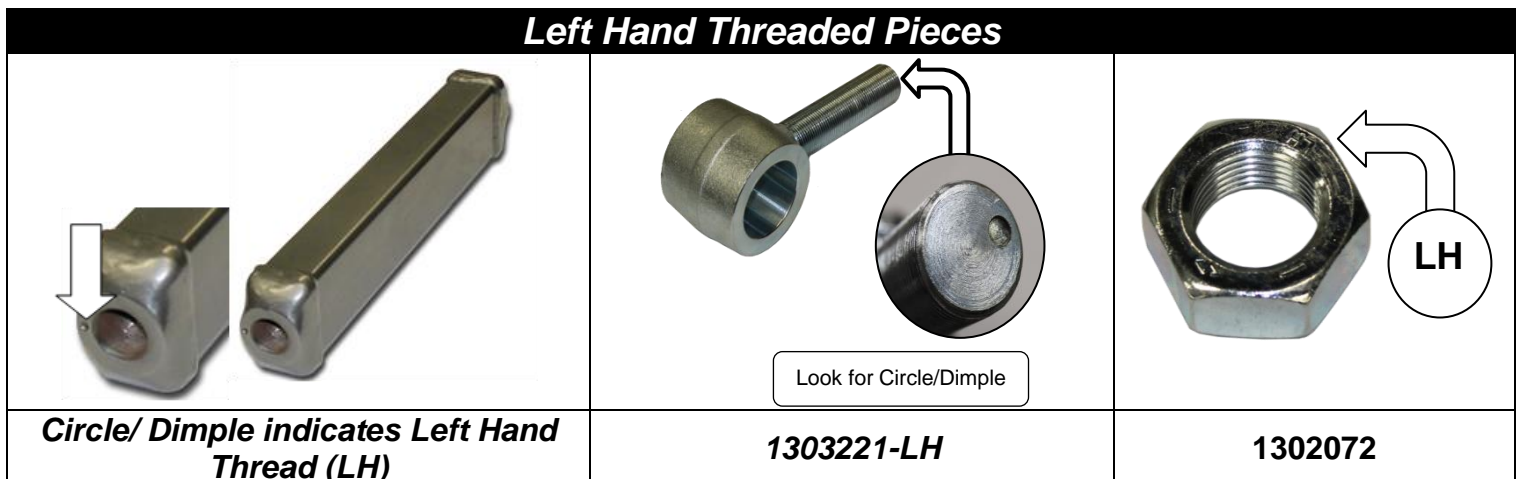
Thank you for purchasing a BD Control Arm Kit. Installation should occur on a vehicle that is properly supported to prevent rolling or movement.

Required Tools

- 1 1/2" Wrench
- 1 9/16" Wrench
- Mallet
- Metric Impact Socket Set
- Torque Wrench
- 1 1/2" Crow Foot
- Pry Bar
- Air Impact

Identification of Parts

It is critical that you can identify the key pieces in the kit as it will simplify installation. All the model year kits are the same except for the sleeves. The mounting bolt diameters change throughout the years.





**VEHICLE SHOULD BE SAFELY SECURED BEFORE INSTALLATION.
THIS CONTROL ARM SHOULD BE INSTALLED AT A SHOP THAT CAN PERFORM
A FRONT END ALIGNMENT**

1. Lift vehicle and support from frame letting the front axle hang at full droop.
2. Remove front wheels.

3. Loosen and remove lower control arm bolts then remove control arm from one side.



Older model years have rectangular lower control arms.

4. Assemble BD adjustable control arm components as illustrated in diagrams. Insert the correct sleeves into the correct locations. Please see the below table for reference.
Lubricate the polyurethane bushings and sleeves with the supplied silicone grease. Use one bag per bar.

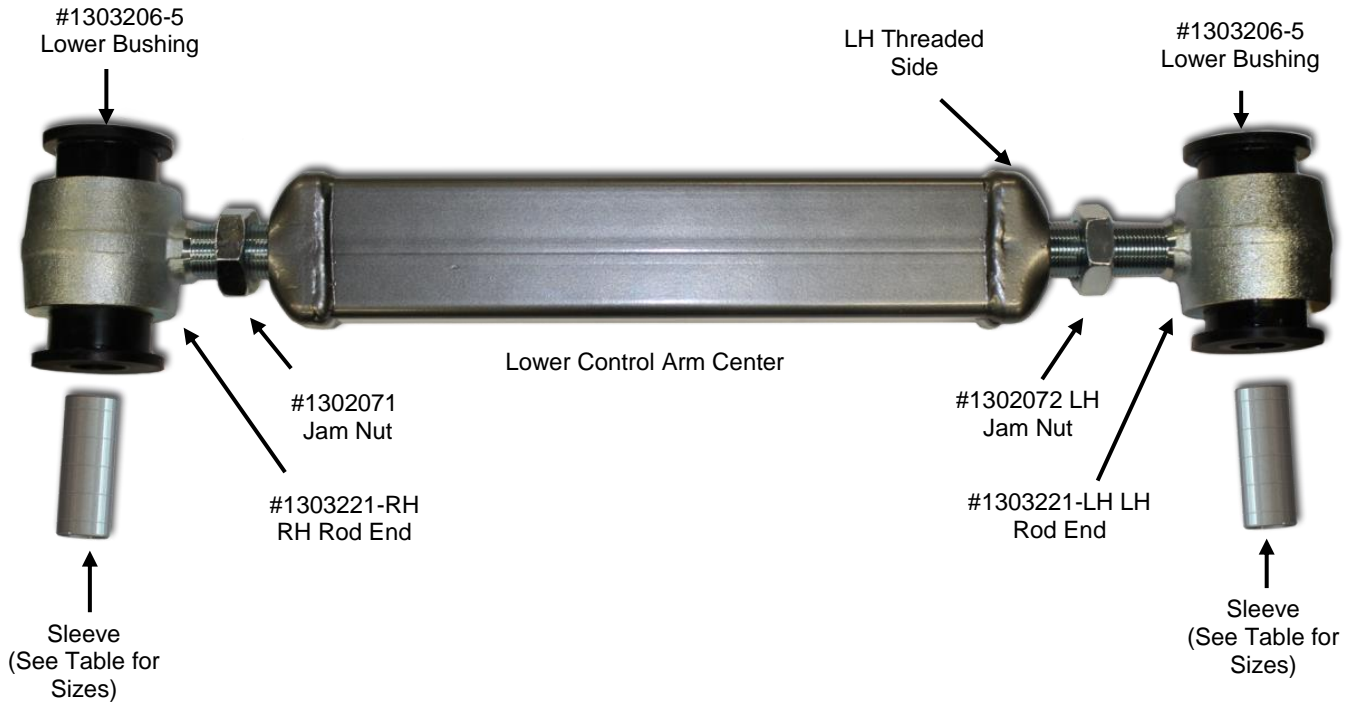
BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

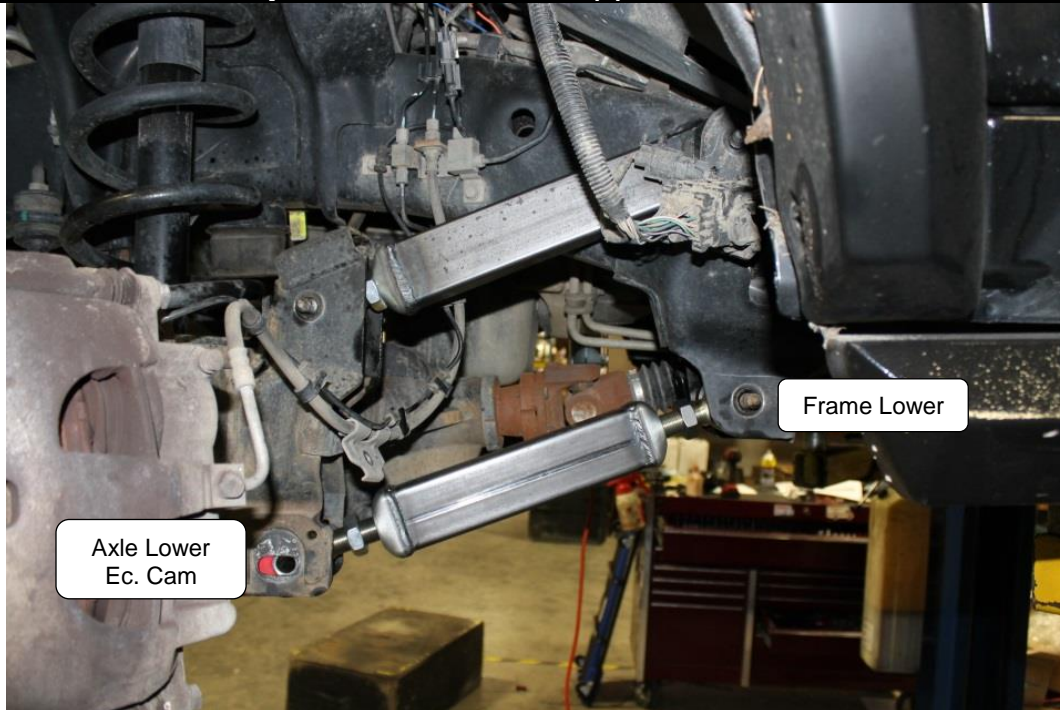
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Lower Control Arm (Double Threaded)



Polyurethane Sleeve Application Matrix

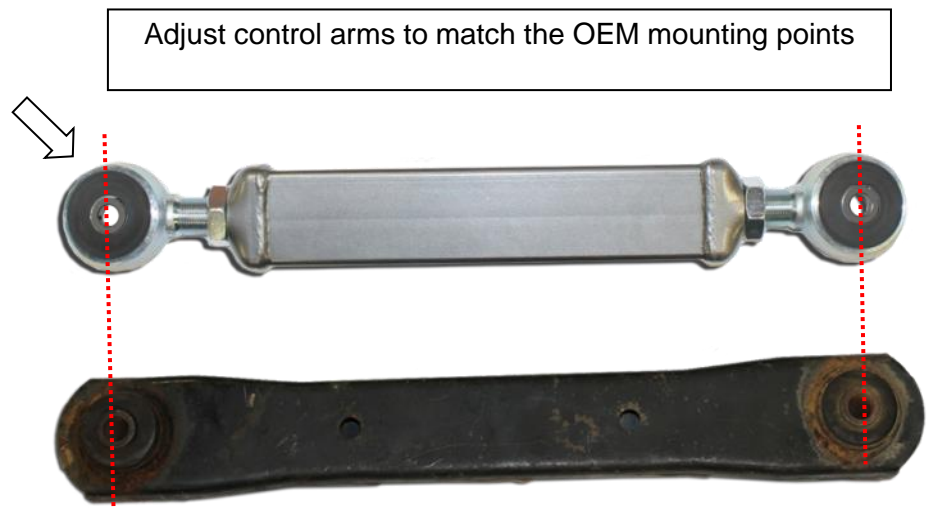


Lower		
Model Year	Lower Frame Mount	Lower Axle Mount (Ec. Cam)
1994-1999 <i>(Kit# 1032030)</i>	1303225-5 <i>(1.0 x .562x2.625)</i>	1303225-5 <i>(1.0 x .562x2.625)</i>
2000-2009 <i>(Kit# 1032031)</i>	1303225-2 <i>(1.0 x .688x2.625)</i>	1303225-2 <i>(1.0 x .688x2.625)</i>
2010-2012 <i>(Kit# 1032032)</i>	1303225-2 <i>(1.0 x .688x2.625)</i>	1303225-1 <i>(1.0 x .732x2.625)</i>

A quick identification of the sleeve is the number of “Bands” or “Rings” on them. 4 rings indicate a 130225-4 part.

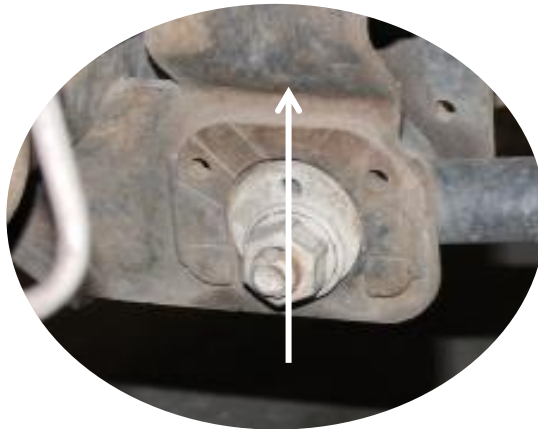


5. Measure OE control arms center to center of mounting points and adjust BD control arms to same measurement for starting position as illustrated. Lengthen to desired position now or have an alignment shop adjust after installation.



6. Install lower control arm. Torque lower control arm bolts. Refer to table at rear of manual for correct torque for vehicle year.

For the lower control arm, when re-installing the eccentric cams, set them to neutral or vertical.



7. Tighten control arm jam nuts. Torque to **225 +/-25 Ft. Lbs.**



8. Repeat steps 3 – 9 for next side of vehicle.

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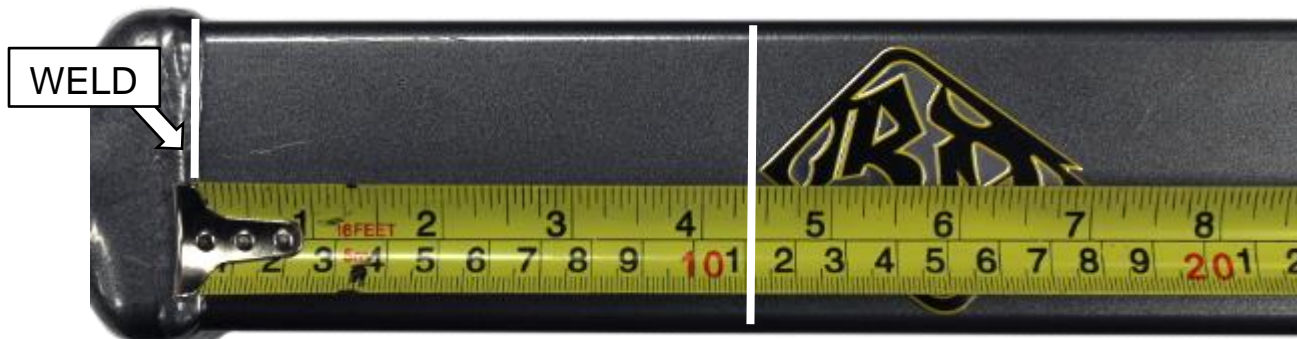
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9. Installing the BD badges onto the upper and lower control arms.

Wipe the control arms with the supplied alcohol swab. Remove the backing from the BD badge. Measure approx. 4 3/8" from the weld to the corner of the BD badge on the outward facing part of the control arm (the badge should be visible from the side of the vehicle). Center the badge vertically and press the badge onto the control arm.

NOTE: Once the badge touches the control arm it cannot be moved/adjusted.



Don't forget to remove the protective film from the badge once it has been placed.



10. Reinstall wheels, torque to specifications and lower vehicle.

11. An alignment is needed after completion of installation. BD recommends between 4.5-5.5° of castor.

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Maximum length adjustments
 Lower: 20.375" center to center

Do not exceed maximum allowable length!

Torque Specifications

1994-1996		1997-1999	
<u>Location</u>	<u>Ft Lbs</u>	<u>Location</u>	<u>Ft Lbs</u>
Lower Axle Side	170	Lower Axle Side	95
Lower Frame Side	170	Lower Frame Side	125
2000-2002		2003-2005	
<u>Location</u>	<u>Ft Lbs</u>	<u>Location</u>	<u>Ft Lbs</u>
Lower Axle Side	140	Lower Axle Side	160
Lower Frame Side	140	Lower Frame Side	160
2006-2009		2010-2012	
<u>Location</u>	<u>Ft Lbs</u>	<u>Location</u>	<u>Ft Lbs</u>
Lower Axle Side	140	Lower Axle Side	200
Lower Frame Side	170	Lower Frame Side	200