



Dodge Control Arms

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

PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLATION

K I T C O N T E N T S :

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					
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
1303207	1303220-RH	1303225-4	1303206-4	1302071	9.11108
					
<i>Control Arm-Upper</i>	<i>Rod End (RHT)</i>	<i>Sleeve (1.0 x .500x2.365)</i>	<i>Bushing Upper Control Arm</i>	<i>Nut Jam 1"-14</i>	<i>Silicone Grease</i>
Qty: 2	Qty: 2	Qty: 4	Qty: 8	Qty: 4	Qty: 4

BD Engine Brake Inc.

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Kit # 1032031					
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</i> <i>(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
1303207	1303220-RH	1303225-3	1303206-4	1302071	9.11108
					
<i>Control Arm-Upper</i>	<i>Rod End (RHT)</i>	<i>Sleeve</i> <i>(1.0 x .562x2.365)</i>	<i>Bushing Upper Control Arm</i>	<i>Nut Jam 1"-14</i>	<i>Silicone Grease</i>
Qty: 2	Qty: 2	Qty: 4	Qty: 8	Qty: 4	Qty: 4

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Kit # 1032032					
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>Bushings 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					
					
<i>Sleeve (1.0 x .688x2.625)</i>					
Qty: 2					
1303207	1303220-RH	1303225-3	1303206-4	1302071	9.11108
					
<i>Control Arm-Upper</i>	<i>Rod End (RHT)</i>	<i>Sleeve (1.0 x .562x2.365)</i>	<i>Bushings Upper Control Arm</i>	<i>Nut Jam 1'-14</i>	<i>Silicone Grease</i>
Qty: 2	Qty: 2	Qty: 4	Qty: 8	Qty: 4	Qty: 4

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Welcome

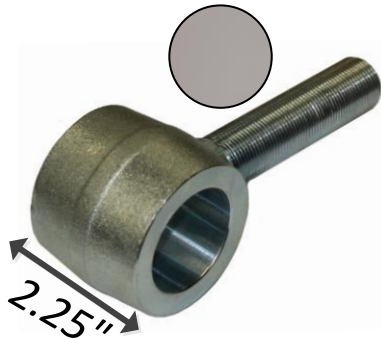
Thank you for purchasing a BD Control Arm Kit. Installation should occur on a vehicle that is properly supported to prevent rolling or movement.

Required Tools

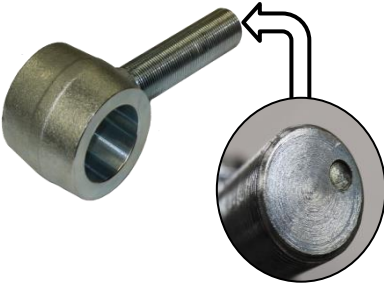
- 1 1/2" Wrench
- 1 9/16" Wrench
- Mallet
- Metric Impact Socket Set
- Torque Wrench
- 1 1/2" Crow Foot
- Pry Bar
- Air Impact

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.

Control Arm Rod Ends		
		
1303220-RH (Used on Upper Only)	1303221-RH (Used on Lower Only)	1303221-LH (Used on Lower Only)

Left Hand Threaded Pieces

		
Circle/ Dimple indicates Left Hand	1303221-LH Look for Circle/Dimple	1302072 LH

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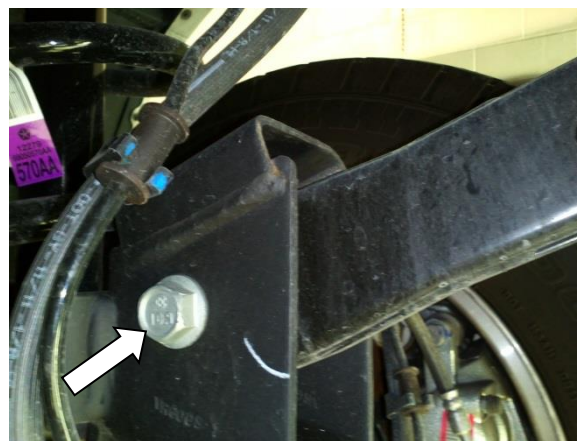
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Thread (LH)

**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.



4. Loosen and remove upper control arm bolts then remove control arm from same side. Axle will have to be pulled forward slightly to allow sufficient clearance for removal. (Passenger side frame bolt requires removal of the exhaust down pipe for clearance.)



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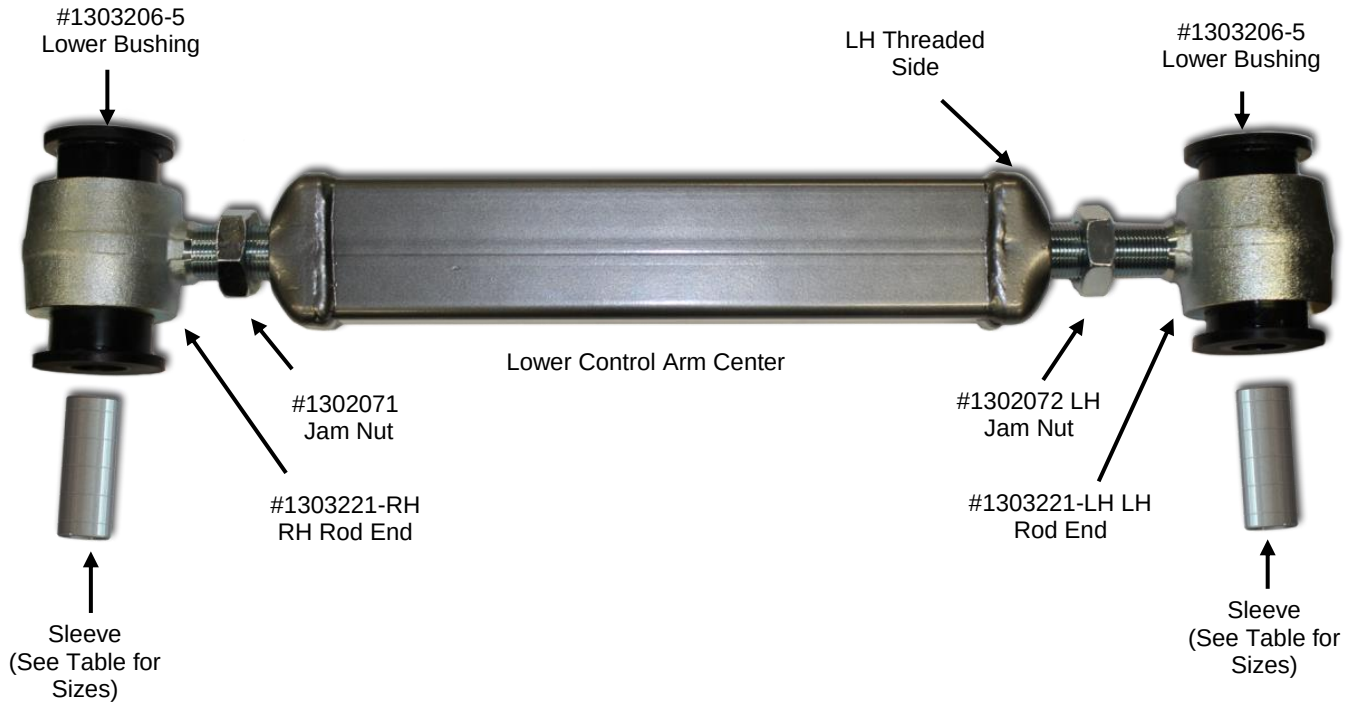
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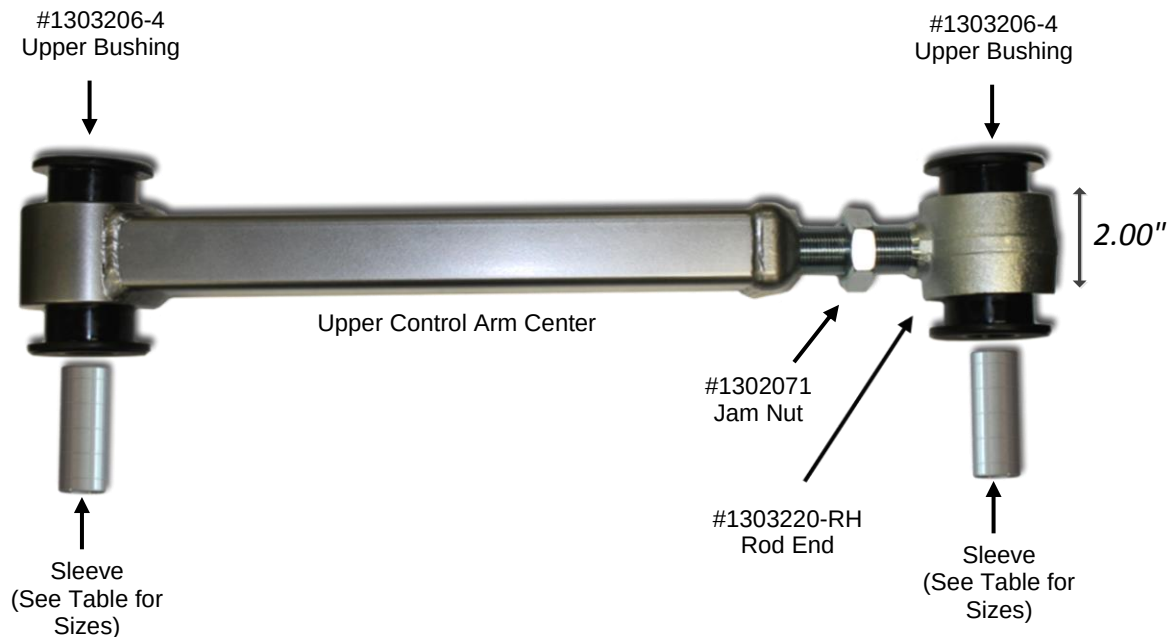
5. Assemble BD adjustable control arm components as illustrated in diagrams. Insert the correct sleeves into the correct locations. Please see the below table for reference.

Lubricate the polyurethane bushings and sleeves with the supplied silicone grease. Use one bag per bar.

Lower Control Arm (Double Threaded)



Upper Control Arm (Single Thread)



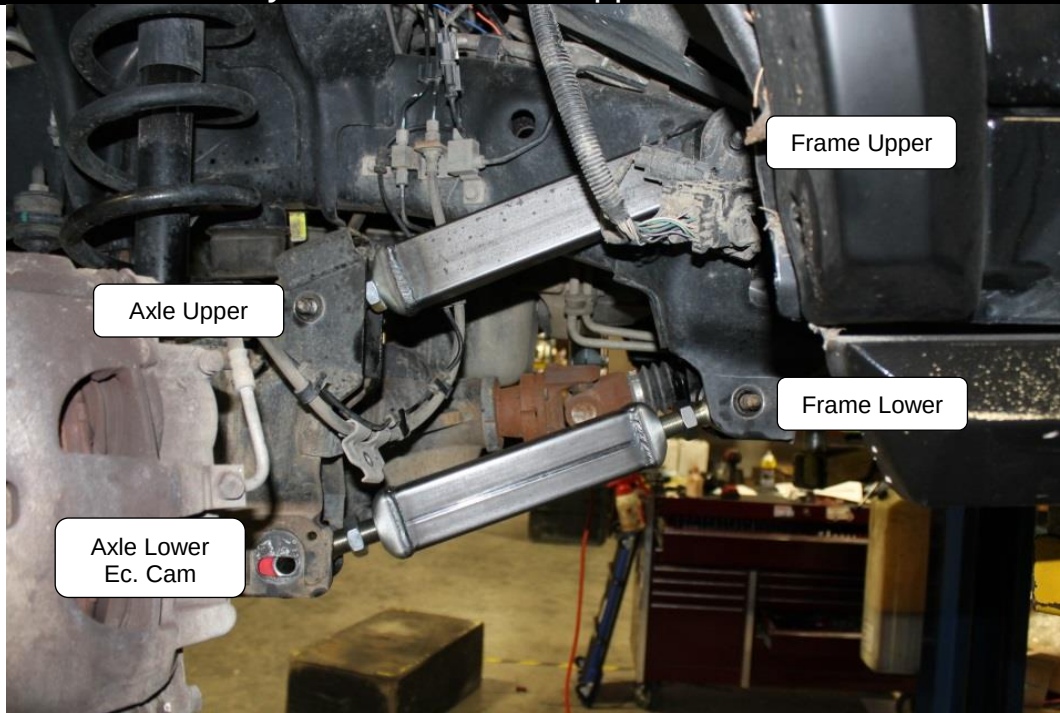
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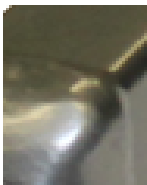
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Polyurethane Sleeve Application Matrix



Model Year	Upper		Lower	
	Upper Frame Mount	Upper Axle Mount	Lower Frame Mount	Lower Axle Mount (Ec. Cam)
1994-1999 (Kit# 1032030)	1303225-4 (1.0 x .500x2.365)	1303225-4 (1.0 x .500x2.365)	1303225-5 (1.0 x .562x2.625)	1303225-5 (1.0 x .562x2.625)
2000-2009 (Kit# 1032031)	1303225-3 (1.0 x .562x2.365)	1303225-3 (1.0 x .562x2.365)	1303225-2 (1.0 x .688x2.625)	1303225-2 (1.0 x .688x2.625)
2010-2012 (Kit# 1032032)	1303225-3 (1.0 x .562x2.365)	1303225-3 (1.0 x .562x2.365)	1303225-2 (1.0 x .688x2.625)	1303225-1 (1.0 x .732x2.625)

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

		
1303225-2 (Two Rings)	1303225-4 (Four Rings)	1303225-1 (One Ring)

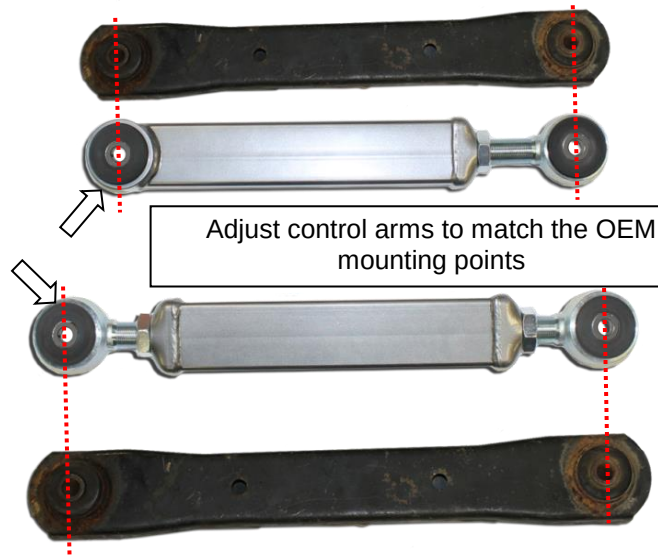
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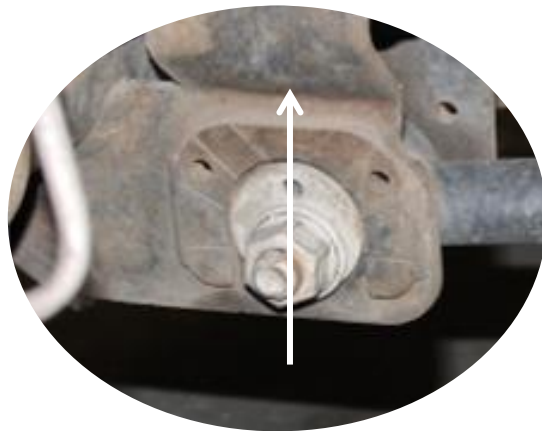
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6. Measure OE control arms center to center of mounting points and adjust BD control arms to same measurement for starting position as illustrated.
Lengthen to desired position now or have an alignment shop adjust after installation.



7. Install upper control arm with adjustable end connecting to axle side.
8. Install lower control arm. Torque upper and 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.



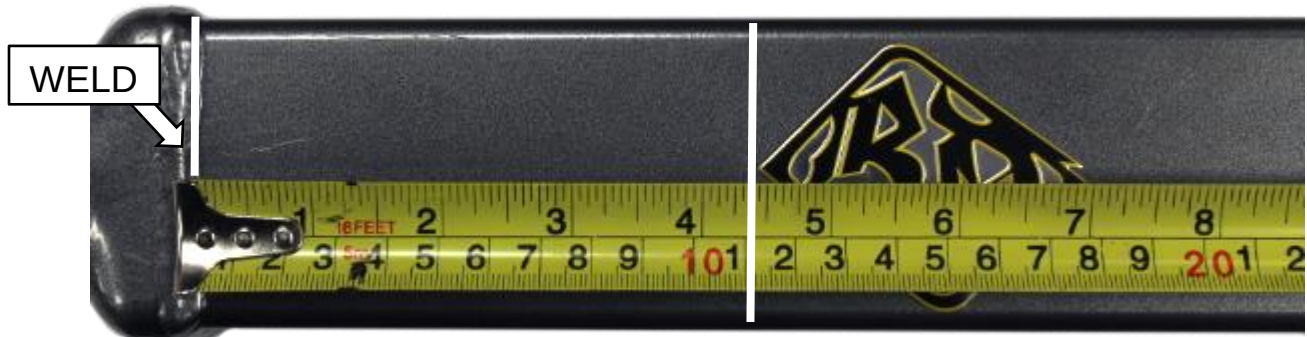
9. Tighten control arm jam nuts. Torque to 120 Ft. Lbs.



10. Repeat steps 3 – 9 for next side of vehicle.
11. 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.



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12. Reinstall wheels, torque to specifications and lower vehicle.
13. **An alignment is needed after completion of installation. BD recommends between 4.5-5.5° of castor.**

Torque Specifications

1994-1996		1997-1999	
<u>Location</u>	<u>Ft Lbs</u>	<u>Location</u>	<u>Ft Lbs</u>
Upper Axle Side	89	Upper Axle Side	89
Upper Frame Side	62	Upper Frame Side	80
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>
Upper Axle Side	120	Upper Axle Side	120
Upper Frame Side	120	Upper Frame Side	120
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>
Upper Axle Side	120	Upper Axle Side	120
Upper Frame Side	120	Upper Frame Side	120
Lower Axle Side	140	Lower Axle Side	200
Lower Frame Side	170	Lower Frame Side	200

If you have any technical difficulties, concerns, comments, or complaints, please phone our Technical Support hotline at (800) 887-5030 between 8:30am-5:00pm PST (Pacific Standard Time) Monday to Friday, or post a message on the BD Discussion Forums located at: