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### IMPORTANT NOTE

## 25013

THIS KIT GIVES YOU THE OPTION OF A 0" TO 2" LIFT FOR YOUR  
**4wd 04 > Dodge Ram 1500.**

### CONGRATULATIONS!

You were selective enough to choose a **BELLTECH PRODUCT**. We have spent many hours developing our line of products so that you will receive maximum performance with your vehicle difficulty during installation

**Note:** Confirm that all of the hardware listed in the parts list is in the kit. **DO NOT** begin this installation if any part is missing. Read the instructions thoroughly before beginning this installation.

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

**Warning:** **DO NOT** drive the vehicle until all work has been completed and checked. Torque all hardware to values specified.

**Reminder:** Proper use of safety equipment and eye/face/hand protection is absolutely necessary when using these tools to perform procedures!

**Note:** It is very helpful to have an assistant available during the installation process.

**Note:** We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

### RECOMMENDED TOOLS:

- Blocks and Wheel chocks
- Ratcheting Socket Wrench
- Safety Glasses
- Floor jack and Jack Stands
- Torque Wrench 10-75 lb ft. range
- Properly rated floor jacks and support stands
- Combination Wrench
- Torque wrench: 0-75 lb ft. range
- Open Wrench

## 1 KIT INSTALLATION

**1a.** Open the hardware kit and remove all of the contents. Refer to the parts list (Page 6) to verify that all parts are present. Do not begin work if parts are missing.

**1b.** Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the REAR wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1st gear (manual) or "Park" (automatic).

**1c.** Using a properly rated floor jack, lift the FRONT wheels of the vehicle off the ground. Place support stands, rated for the vehicle's weight and in the factory specified locations. Refer to the vehicle Owner's Manual. Prior to lowering the vehicle onto the stands, make sure the supports will securely contact the chassis.

- 1d. It is very important that the vehicle is properly supported during this installation to prevent personal injury and chassis damage. Make sure that the support stands are properly placed prior to performing the following procedures. We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

### **REMOVING THE O.E.M. FRONT STRUT**

- 2a. Completely remove the sway bar end links from both sides



- 2b. Remove brake calipers.



- 2c. Remove steering arm (tie rod) from spindle.



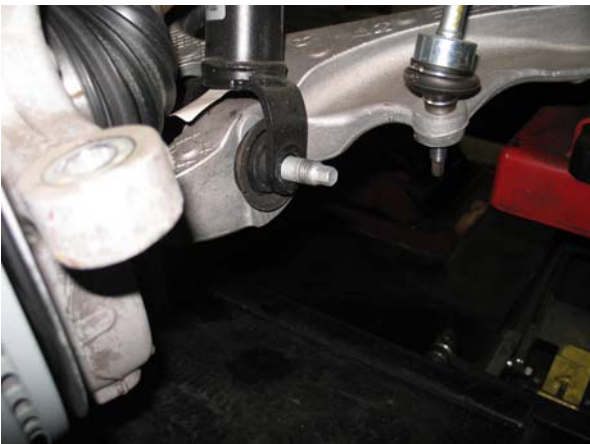
**3a.** Remove plastic clip holding the ABS sensor to the spindle.



**3b.** To be able to install the Belltech Lift Strut the lower control arm bolts to the frame must be removed, and the lower control arm lowered from those positions. Attached to the bolts are the **alignment cams**. Please take the time to **mark there position** so they can be re-installed in the same position's. With a floor jack holding the bottom of the spindle, remove the bolts and lower the lower control arm.



**3a.** Now you can remove the lower strut bolt and the upper mounting nuts.





**4a** Now the strut can be removed.



**4b** Before disassembling the strut mark the position of the top mount in relationship to the lower bolthole. Using a spring compressor, compress the spring to remove the pre-load of the spring from the strut. Using the correct tools remove the top mount from the strut. We do not recommend using power tools. Now disassemble the strut and release the spring tension, be sure to remember the order the components are removed.



**4c** The new Belltech strut will use the O.E. rubber bump stop. Lubricate the strut shaft and remove the bump stop as shown or by using any similar method. Be careful not to damage the strut shaft during this operation.



- 5a** Assemble the Belltech lift strut, be sure to include the black plastic vent cap below the bump stop.

**SPACER QUANTITY NEEDED**

Year model	2009 >		
Spacer	HEIGHT LIFTING 1" 25.4mm	HEIGHT LIFTING 2" 50.8mm	OEM HEIGHT 0" 0MM
25003-008 8mm (0.315")	1	1	0
25003-016 16mm (0.63")	1	2	0



**5b**

**SPACER QUANTITY NEEDED**

Year model	2004 / 2008 >		
Spacer	HEIGHT LIFTING 1" 25.4mm	HEIGHT LIFTING 2" 50.8mm	OEM HEIGHT 0" 0MM
25003-008 8mm (0.315")	0	0	0
25003-016 16mm (0.63")	2	3	1



- 6a** After selecting the correct number spacers required. Again using a spring compressor. Reassemble all the O.E. components onto the Belltech Lift Strut. The kit includes top stem spacers to be used before the top fastener (nut).



- 7a** Now reinstall the strut to the vehicle; attach the top mount only by one nut attached loosely.



With the use of a floor jack and supporting the lower control arm across its arms, raise the lower control arm back into position, when possible insert a screwdriver or similar device to help align the lower control arm back into the frame points. After this is achieved, you can adjust the floor jack to align each side.



- 8a** Reattach the lower control into it original location using the o.e bolts and cams.  
Adjust the cams and hold in place while tightening the bolts.  
With the cams back in the position they where before the install, this will ensure that the vehicle could be driven a short distance to an alignment shop.

**Your vehicle will need a front alignment after the installation.**

Now proceed to install or tighten all items removed or loosened during the installation.

In a reverse order of the installation, this can be accomplished.

The last item to be installed will be the swaybar end links.

You will have to guide both side back into there o.e. location at the same time.

PART NUMBER	DESCRIPTION	QTY
25013	Shock	1
25003-016	Spacer	3
25003-008	Spacer	1
65210031	Vent Disk	1
112432-95	Small spacer	1
404-009-95	Large spacer	1