



INSTALLATION INSTRUCTIONS

154302-104

LEVELING DIFF DROP KIT

300 W. Pontiac Way Clovis, CA 93612 toll free: 1-800-445-3767 web: www.belltech.com

3RD GEN TOYOTA TACOMA

Thank you for being selective enough to choose our high quality BELLTECH PRODUCT. We have spent many hours developing our line of products so that you will receive maximum performance with minimum difficulty during 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 vehicle until all work has been completed and checked. Torque all hardware to specified values.

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 installation.

Note: Please refer to component and hardware list before beginning installation to insure all necessary pieces have been supplied and packaged.

Exceptional Customer Experience Guarantee:

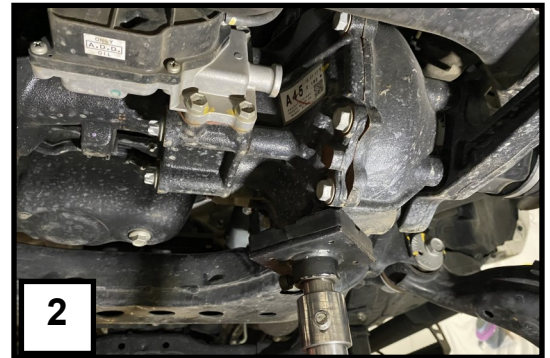
STOP! We strive for an exceptional experience for all of our valued customers. If, for any reason, you need assistance with your Belltech products, please do not return the products to the store or website you purchased from. Please call our dedicated experts at (1-800-445-3767) from 6am to 5pm PST.

RECOMMENDED TOOLS:

- Properly rated floor jack and support stands
- Wheel chocks
- Torque wrench up to 200 ft/lbs range
- Metric socket wrench set
- Metric wrench set

KIT CONTENTS			
154302-104-A	SPACER OD 38mm , 15mm, H 25.5mm		2
154302-104-B	SPACER OD 25mm, ID 10mm, H 12.75mm		2
112119	M8 X 1.25 X30mm	Grade 10.9	2
110245	M8 Washer	Grade 10.9	2
112120	M14 X 1.5 X 150mm	Grade 10.9	2
110223	M14 Washer	Grade 10.9	2
112121	M14 x 1.5 Nylock nut	Grade 10.9	2

- 1) It is helpful to perform this install on a scissor lift or anywhere that grants access to the bottom of the vehicle without suspending the wheels. Alternatively the vehicles front end can be lifted using floor jacks or a lift (follow proper safety procedures for your method)
- 2) Locate the bolts securing the front skid plate to the chassis of the vehicle. Remove these and set aside for reinstallation. **(PHOTO 1)**
- 3) Support the differential using either a jack or bottleneck jack. **(PHOTO 2)**
- 4) Remove the bolts securing the front driver and passenger differential mounts to the chassis. **(PHOTO 3)**
- 5) Lower the differential enough to insert the larger spacers supplied in the kit.
- 6) Insert the spacers along with the new Grade 10.9 M14x1.5-150mm bolts, washers, and nuts. **(PHOTO 4)**
- 7) Reinstall the skid plate, making sure to use the new supplied grade 10.9 M8x1.25x30mm bolts and washers towards the rear of the vehicle. The shorter supplied spacers should be installed between the chassis and the skid plate. **(PHOTO 5)**
- 8) Torque all hardware to factory specifications.
- 9) The differential drop kit is now installed.





INSTALLATION GUIDE

PART NUMBER: 154302-121
LEVELING PRELOAD SPACER KIT
TOYOTA TACOMA 4WD | 2005-2021

300 W. PONTIAC WAY. CLOVIS, CA 93612
PHONE: 800-445-3767 | EMAIL: INFO@BELLTECH.COM

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 6am 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 headlight check and adjustment.

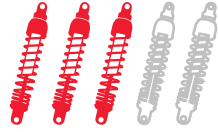
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME:

1-2 Hours
Per Spacer
+Alignment

RECOMMENDED TOOLS:

- Properly rated floor jack
- Support Stands
- Wheel chocks
- Metric socket wrench set
- Metric wrench set
- Tape measure
- Oil-based paint pen
- Dead blow hammer

SPECIALTY TOOLS:

- Torque wrench up to 200ft/lbs
- High quality spring compressor

INSTALLATION PREPARATION:

Before beginning the installation process, measure the hub to fender heights for your vehicle and record them in the “Before” section. After your vehicle has been modified, record the new measurements in the, “After” section. This way, you can compare the resulting height to the original. When taking the measurements, measure vertically from the center of the wheel to the inner edge of the fender.

Before:

LF: _____

RF: _____

LR: _____

RR: _____



After:

LF: _____

RF: _____

LR: _____

RR: _____

JACKING, SUPPORTING, AND PREPARING THE VEHICLE

1. Park your vehicle on a smooth, level, concrete or seasoned asphalt surface.
2. Block the rear 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. Loosen, but do not remove, the front wheel lug nuts.
5. Lift the front of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the front 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 front 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 STRUT REMOVAL

9. Remove the nut from the sway bar end link using a 17mm wrench and disconnect the end link assembly from the spindle. It will be helpful to have both sides of the vehicle disconnected simultaneously to avoid binding of parts. Optionally, the end link can be removed from the sway bar as well.



10. Disconnect the tie rod by removing the cotter pin and Castle nut. Strike the designated area carefully on the spindle to dislodge the tie rod.



11. Using a 19mm socket, remove the two bolts securing the lower ball joint to the spindle. Be careful to stabilize the spindle as it may now move freely.



12. Remove the bolt and nut securing the lower shock eyelet to the lower control arm.



13. Using an oil-based paint pen, mark the alignment of the camber and caster adjustment bolts securing the lower control arm to the frame. When reinstalling the control arms later, this will help keep the alignment close to proper settings.



OEM STRUT REMOVAL CONTINUED

- Using two 22mm wrenches, loosen both bolts securing the lower control arm to the frame. Loosen in small increments until the lower control arm is able to swing downward. Be careful to support the lower control arm to prevent it swinging down too quickly. The upper control arm has enough resistance to suspend the spindle/axle/upper control arm assembly.



- With the lower control arm swung out of the way, the strut should be held only by the three nuts on the top mount. While holding the strut up to avoid dropping it, loosen and remove the top three nuts using a 14mm wrench.



- Remove the strut from the vehicle. Some additional adjusting of the spindle's location may be necessary to drop the strut down. Be careful not to separate the joints of the axle by pulling on the spindle too much.

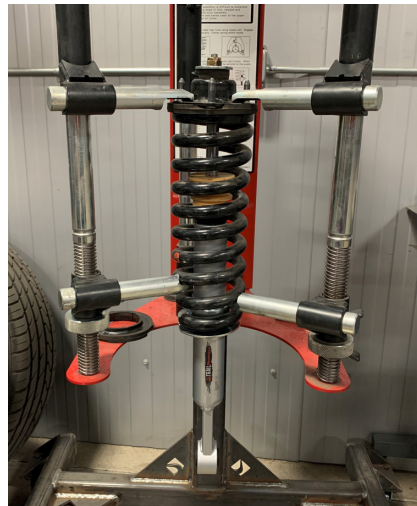
STRUT DISASSEMBLY

- Mount the entire spring/strut assembly in the fixture. To ease re-installation of the strut, mark the position of the top mount in relationship to the upper spring isolator and strut body.



Technician note:

It is important to use a spring compressor to compress the spring before removing the top mount bolt. Failure to do so may result in serious injury.



- Compress the spring until tension is relieved from the strut.
- Remove the top mount.
- Remove the upper rubber isolator.

BELLTECH PRELOAD SPACER AND STRUT ASSEMBLY

21. The Belltech preload spacers are depicted below. Install the Belltech preload spacer on the spring with the flat portion facing upward so when the top mount is replaced it will sit flush on the spacer. The three dimples on top of each spacer will align with the studs on the top mount.



22. Replace the top mount. Reference the OE strut markings you made and ensure the top mount is oriented in the same fashion it was before disassembly.

STRUT INSTALLATION

23. Slide the strut assembly into its original placement.
24. Using a 14mm wrench, tighten the upper strut nuts onto their correlating bolts.



25. Move the control arm back into place towards the coilover.



26. Using two 19mm wrenches, reattach the OE strut lower bushing.



STRUT INSTALLATION CONTINUED

27. Using a 19mm socket, attach the two bolts securing the lower ball joint to the spindle.

28. Reconnect the tie rod by reattaching the castle nut and inserting the cotter pin.



29. Use a 17mm socket to reattach the sway bar end links.

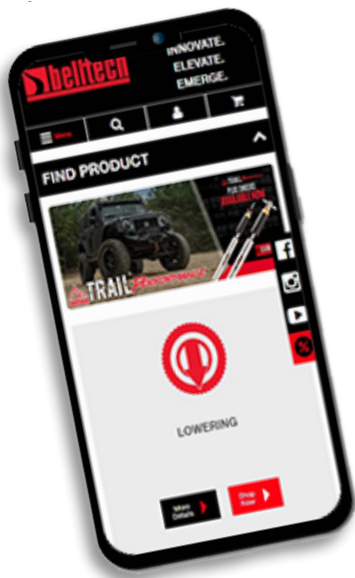


30. Realign and tighten the camber and caster adjustment bolts. Tighten the cams with the full weight of the vehicle on the suspension.



FINALIZING THE INSTALLATION

31. Re-install the wheels and tighten the lug nuts.
32. Lift the vehicle and remove the support stands.
33. Carefully lower the vehicle onto the flat ground.
34. Torque the lug nuts to manufacturer's specifications.
35. Check that all components and fasteners have been properly installed and torqued.
36. Re-read and perform all tasks in the "Before Driving Your Vehicle" section of page 1 of your instructions.



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Belltech Suspension



@belltechsuspension

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!

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:

Phone: 1-800-445-3767

Email: info@belltech.com

KIT CONTENTS



154302-121

Part number	Description	Qty
154302-121	Preload Spacer	2