

**PARTS INCLUDED IN KIT**

Front Coil Spring Perch,  
Sleeve and Bump Stops



Leaf Spring Shackle  
and Hardware



Axle Perches



Top & Bottom Plates



U-Bolts and lock nuts



Rear Bump Stops  
(Crew Max / D-cab only)



Shock Bushings  
and Washers



\* Remember to keep O.E. parts in case you want to return vehicle to stock height.

# TUNDRA RACING

## LOWERING KIT INSTALLATION MANUAL



2007-10 Toyota Tundra  
2wd & 4x4

Part #TR-2040 & TR-2050  
Reg Cab, Double Cab & Crewmax

	<u>Front</u>	<u>Rear</u>
All Models	2"	4" / 4.5" / 5"

**Tundra Racing LLC**  
2243 W. 24th St.  
Panama City, FL 32405  
850-769-3465  
TundraRacing.com

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## Notes

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*Thank you for purchasing the Tundra Racing lowering kit for your Toyota Tundra. We take pride in the design and manufacture of all our products. If you have any questions or comments, regarding this or any TR product, please feel free to contact us.*

**Please read the entire manual prior to starting this installation.**

**Technical support:**  
 Phone: 850-769-3465  
 Fax: 850-215-1529  
 Email: TundraRacingLLC@aol.com

**Note: Carefully inspect fitment of all parts to ensure vehicle manufacturer has not changed dimensions. Please contact us prior to any modifications not shown in this manual.**

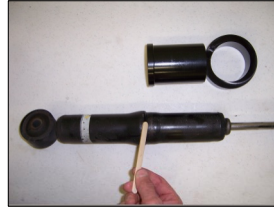
## Step 4: Install the front lowering kit

- ◆ NOTE : If your Tundra is equipped with the TRD Off road package. You will need to install the small gold sleeve over the shock first.



Mix up a pack of urethane epoxy & place a small amount on the sleeve where the spring perch rests.

- ◆ Install the spring perch.
- ◆ Use the remaining epoxy on the 45 degree surface of the shock where the sleeve will seat.
- ◆ Install the sleeve.
- ◆ Slide spring onto shock assembly, being sure spring is properly seated.
- ◆ Reassemble Shock assembly.
- ◆ Slide shock/spring assembly into upper spring mount. Hand tighten all of the nuts.
- ◆ Pushing down on the control arm install the lower mount bolt, nut and washer.



Hand tighten at this time.

- ◆ Reinstall the sway bar end links.
- ◆ Tighten all fasteners at this time.
- ◆ Reinstall and torque wheels to factory specifications.

*\* Remember to keep O.E. parts in case you want to return vehicle to stock height.*

### Safety Notice

- Improper handling of a vehicle, especially while raised and supported by jack stands, ramps or other mechanical means can cause serious bodily injury or even death. It is strongly recommended that a trained, experienced mechanic, with proper equipment, install the lowering kit .
- TR assumes no liability expressed or implied for the improper installation or use of this product or its components.

### Liability

Performance driving is dangerous. Products used for such applications are subject to stresses and conditions outside of normal use. No representation is made to the product's ability to protect the user from injury or death. Tundra Racing, LLC. (TR) is NOT responsible for any damage resulting in equipment failure after installation. The user assumes all risk TR is not liable for labor charges or loss of use.

### Warranty

Tundra Racing LLC (TR) warrants your new parts to the original purchaser for 90 days from the date of purchase, on the vehicle on which it is installed. If professionally installed by a certified ASE installer, the product warranty is for 1 (one) year from date of purchase. There is no expressed or implied warranty on the installation. If your part fails due to defect or poor workmanship during the warranty period TR will send you a replacement part at no charge. This warranty does not cover OEM components. There is no other express warranty and this warranty supersedes all other warranties. TR nor any retailer or representative thereof shall not be liable for incidental, consequential, or special damages arising out of or in connection with product use or performance except as might otherwise be accorded by law (which varies from state to state). This warranty gives specific legal rights. You may also have other rights, which vary from state to state.

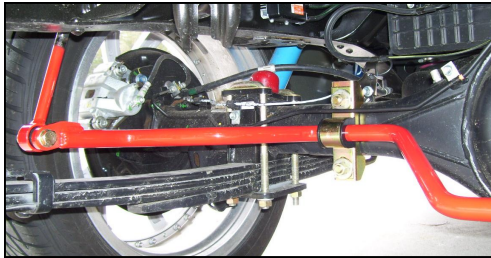
### Recommended Tools

- 1/2+Drive Metric Socket Set
- Torque wrench capable 10-90 ft/lb setting
- Non-marring mallet
- Spring compressor
- Safety glasses
- Hydraulic floor jack and safety stands  
or automotive lift
- 2) 4+C-Clamps

## Kit Options

TR-4060 Mounting Kit \$129

Required for installation of a TRD Rear sway bar kit on a lowered Tundra



**NOTE: The installation of this kit will REQUIRE new rear shocks. Most O.E. or aftermarket 2006 Double Cab rear shocks will work. We offer the Tokico Performance shocks shown below.\***



**TRD Sport /Tokico  
Rear Shocks**

**Price: \$149.00 pair**

Tokico Shock part number  
48531-09260



**NOTE: If this kit is installed on a TRD OFFROADTUNDRA with yellow Bilstein shocks , front shock sleeves are required .**

**TR-4062 Shock Sleeves \$39.95**

These rear shocks are available

Tokio Short Rear Shock - Part # 48531-A9130 \$99

- ◆ Remove bottom shock mount nut . Leave bolt in place for now.
- ◆ Remove the four top shock mounting nuts.  
\* Note do not remove the center nut from shock assembly
- ◆ Push down on the lower control arm and remove lower shock bolt. You must hold the shock while removing bolt.
- ◆ Remove shock, by sliding out in front of the lower control arm. Pushing down on a pry bar will add enough leverage to remove the bottom of the shock from the mount.



Note: This may require 2 people.

- ◆ Using a spring compressor, take the pre-load off the spring assembly.
- ◆ Remove the shock from the shock top mount by removing the center nut.
- ◆ Using a rubber mallet, remove the stock spring perch.\*
- ◆ Remove 4 OE bump stops\* and install the new urethane bump stops.



## Installation of Front Lowering Kit

### Always Wear Safety glasses

#### Step 1: Raise vehicle

- Break loose (do not remove) the lug nuts on both front wheels before raising the truck.
- Refer to the Owners Manual for the correct lift points.
- Using an automotive lift, raise the vehicle and secure.
- If you do not have access to an automotive lift, a floor jack and jacks stands can be used. This must be done on a level concrete surface. (Be sure to chock the rear wheels and engage the parking brake.)

### NEVER LEAVE ANY VEHICLE SUPPORTED WITH ONLY A JACK, ALWAYS USE JACK STANDS

#### STEP 2: Remove front wheels

- ◆ After securing the vehicle at a convenient height, remove the front wheels.

#### STEP 3: Disassemble front sway bar end links

- ◆ Remove driver and passenger side nut, washer and end link bushing.



\* Remember to keep O.E. parts in case you want to return vehicle to stock height.

## Installation of Rear Lowering Kit

### Always Wear Safety glasses and Gloves

#### Step 1: Raise vehicle

- Break loose (do not remove) the lug nuts on both rear wheels before raising the truck.
- Refer to the Tundra Owners Manual for the correct lift points.
- Using an automotive lift, raise the vehicle and secure.

Note: If you do not have access to an automotive lift, a floor jacks and four jack stands can be used. Be sure to chock the front wheels and engage the parking brake. This must be done on a level concrete surface.

### NEVER LEAVE ANY VEHICLE SUPPORTED WITH ONLY A JACK, ALWAYS USE JACK STANDS

#### Step 2: Remove rear tires & spare..

#### Step 3: Support the rear axle & drive shaft to prevent axle housing from rolling forward.

#### Step 4: Remove rear shocks & retain top washers.\*

#### Step 5: Remove stock u-bolt hardware and save washers to reuse.\*

Note: Crew Max & Double Cab only - Loosen the intermediate drive shaft carrier bearing support to allow carrier bearing to move forward.

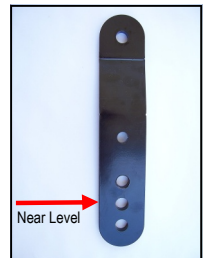
#### Step 6: Remove leaf springs and raise rear axle 4+

**Caution: Brake hoses from frame to axle housing should not be stretched.**

#### Step 7: Clamp leaf spring pack as shown and reverse the pin so the nut will be on the bottom.



#### Step 8: Re-Install leaf springs using new TR Shackle. We suggest starting with the center hole. Each hole equals approximately 1/2+drop. \* Due to many factors your results may vary. Torque the shackle nuts to 30 lbs.



#### Step 9: Check exhaust tailpipe clearance to new leaf spring location and modify hanger / tailpipe if necessary.

\* Remember to keep O.E. parts in case you want to return vehicle to stock height.

**Step 10:** Install the TR axle components (including O.E. washers) as shown in photo below.

**Note: long U-bolts are used behind axle**

**Standard Cab** - Use the OE bump stop.

**Double Cab / Crew Max** - Use the supplied bump stops & washers

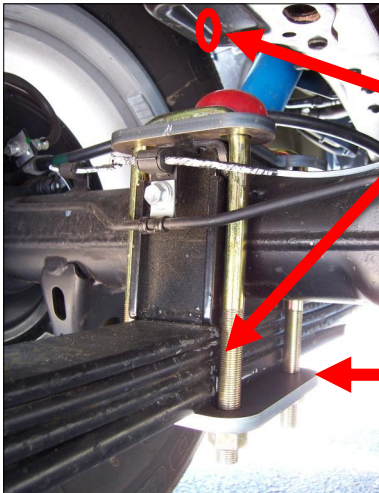
Be sure the rear axle is level & centered at this time.

Tighten U-bolts and adjust as needed.

Note: Do not allow tailpipe to touch the leafspring during this step.

Torque U-Bolts to 60 ft/lbs.

Note: **Double Cab & Crew Max Only** - Tighten the intermediate drive shaft carrier bearing support.



Note

Top and Bottom Plates have a notch that should be positioned towards the rear of the vehicle.

(Bottom plate notch not visible in photo.)

Reuse O.E. washers

**Test Drive vehicle at safe speed & make any necessary adjustments. Re-torque U-bolts after 100 miles.**

## Rear Shock Installation

**Step 11:** Install NEW shocks as shown below.

Remove O.E. Shocks - Retain top and bottom washers for use with new shock installation.



Install O.E. washer with larger inside diameter on the shock with the concave side up.



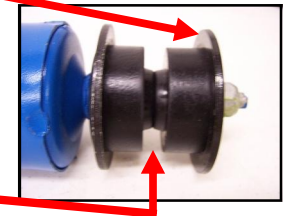
Install first urethane bushing with smaller diameter portion up.

Insert threaded shock stud through upper shock mounting hole in frame.



Install second urethane bushing with smaller diameter portion down.

Install O.E. washer with smaller inside diameter on the shock with the concave side down.



Upper shock mounting hole in frame is sandwiched between two urethane bushings.

Tighten nut to hold in place.

Note: Bottom shock mount is slightly wider than replacement shock - use provided washers to fill space and torque to 30 ft/lbs.

