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SUPERLIFT.COM

# 2022 - 2024 TOYOTA TUNDRA 3" UPPER CONTROL ARM KIT INSTALLATION INSTRUCTIONS



**THANK YOU FOR CHOOSING SUPERLIFT FOR ALL  
YOUR SUSPENSION NEEDS!**



Make sure you have the correct lift for your vehicle. Double check the year, make, model, lift height and kit part numbers.

**Engineered for 4wd models only.**

**Does not fit – PRO models or vehicles equipped with Adaptive Variable Suspension**

Prior to beginning the installation, open the boxes and check the included components compared to the parts breakdown. Check all parts and hardware in the box with the parts list below. Be sure you have all needed parts and know where they install.

If you find a packaging error, contact Superlift directly. Do not contact the dealer where the system was originally purchased.

The 'KIT BREAKDOWN' lists part numbers, quantities, part description of the individual components, and hardware bags that are included in each box.

Read and understand all instructions and warnings prior to installation of system and operation of vehicle.

<b>KIT BREAKDOWN</b>		
<b>Kit Part Number</b> 8230		
<b>Part Number</b>	<b>Qty.</b>	<b>Part Description</b>
TA339	1	upper control arms
55-05-8230	2	front strut spacer
55-07-8230	2	rear shock bracket - axle
55-08-8230	2	rear shock bracket - outer
55-09-8230	1	rear brake line bracket
55-10-8230	2	front sway bar bracket
55-06-8400	2	skid plate spacer - tall
55-05-3600	2	skid plate spacer - short
55-07-8400	2	rear coil spring spacer
55-13-8400	2	rear coil spring spacer tab nut
77-8230	1	hardware bag
77-8231	1	hardware bag

### **INTRODUCTION BEFORE INSTALLATION:**

Installation requires a professional mechanic. In addition to these instructions, professional knowledge of disassembly / reassembly procedures and post installation checks must be known.

Prior to beginning, inspect the vehicles steering, driveline, and brake systems, paying close attention to the suspension link arms and bushings, sway bars and bushings, tie rod ends, pitman arm, idler arm, ball joints and wheel bearings. Also check all suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition; repair or replace all worn parts. Read instructions several times before starting. Read each step completely as you go. Be sure you have all needed parts and know where they install.

### **NOTES:**

- Do NOT install this suspension system in conjunction with any other type of aftermarket or fabricated components to gain additional suspension height.
- Front end alignment is necessary.
- A foot-pound torque reading is given in parenthesis ( ) after each appropriate fastener.
- Tool and Wrench/Socket size is given in brackets [ ] after each appropriate step.
- Prior to attaching components, be sure all mating surfaces are free of grit, grease, excessive undercoating, etc.
- Always wear safety glasses when using power tools.
- A factory service manual should be on hand for reference.

**BEFORE YOU DRIVE...**

Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering components for clearance.

Test and inspect brake system. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/replacement may result in component failure.

Perform head light check and adjustment.

It is the ultimate buyer's responsibility to have all bolts / nuts checked for tightness after the first 100 miles and then every 1000 miles. The steering, suspension and driveline systems, plus wheel alignment should be inspected by a qualified professional mechanic at least every 3000 miles.

**TIRES and WHEELS...**

Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.

This lift was engineered using a maximum tire size - 35" x 12.50" on a 0" offset 20" x 9" wheel

Step	Part Number	Qty. per Kit	Description	New Attaching Hardware	Qty. per Bracket	Hardware Bag Number
<b>FRONT</b>						
19	55-05-8230	2	strut spacer	10mm, 1.5 pitch flange nut	4	77-8230
22	TA339	1	upper control arm, driver side			
		1	upper control arm, passenger side			
27	55-10-8230	2	sway bar drop bracket	12mm x 70mm bolt, 1.25 pitch	2	77-8230
				12mm flat washer	2	
31	55-06-8400	2	skid plate front spacer, tall	8mm x 50mm bolt, 1.25 pitch	1	77-8230
				8mm flat washer	1	
31	55-05-3600	2	skid plate middle spacer, short	8mm x 50mm bolt, 1.25 pitch	1	77-8230
				8mm flat washer	1	
<b>REAR</b>						
10	55-07-8400	2	coil spring spacer	3/8" x 1" bolt, coarse thread	1	77-8230
				3/8" USS washer	1	
				55-13-8400 - tab nut	1	77-8231
12	55-07-8230	2	shock bracket, axle	12mm x 30mm bolt, 1.25 pitch	1	77-8230
				12mm flat washer	1	
				5/8" x 4-1/2" bolt, coarse thread	1	
				5/8" SAE washer	2	
				5/8" nyloc nut, coarse thread	1	
				3/4" x 3-1/2" bolt, coarse thread	1	
				3/4" SAE washer	1	
				3/4" nyloc nut, coarse thread	1	
				55-08-8230 - shock bracket outer	1	77-8231
16	55-09-8230	1	brake line brakcet, frame	5/16" x 3/4" bolt, coarse thread	1	77-8230
				5/16" SAE washer	1	
				5/16" flange nut, coarse thread	1	

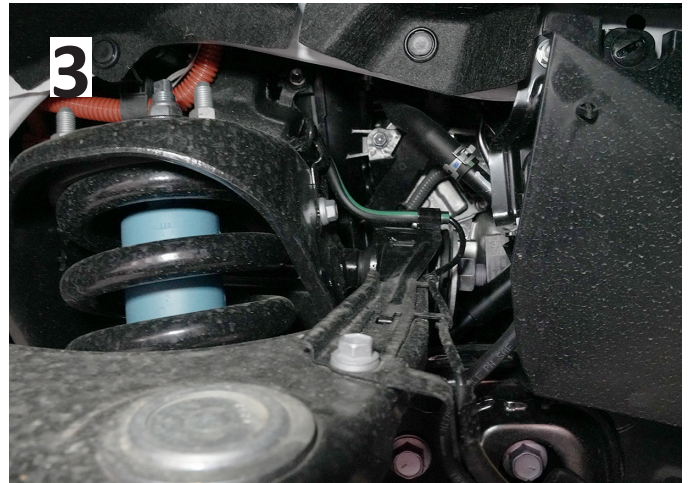
# FRONT INSTALLATION

**NOTE:** Save ALL factory components and hardware for reuse, unless noted.

1. Disconnect the battery.
2. Raise the front of the vehicle with a jack and secure on jack stands.
3. Remove the front tires and wheels.
4. Remove the bolts from the skid plate and remove skid plate. [12mm]
5. [Illustration 1] Disconnect the sway bar links from the lower control arms. [19mm]
6. [Illustration 2] Remove the sway bar from the frame. [17mm]

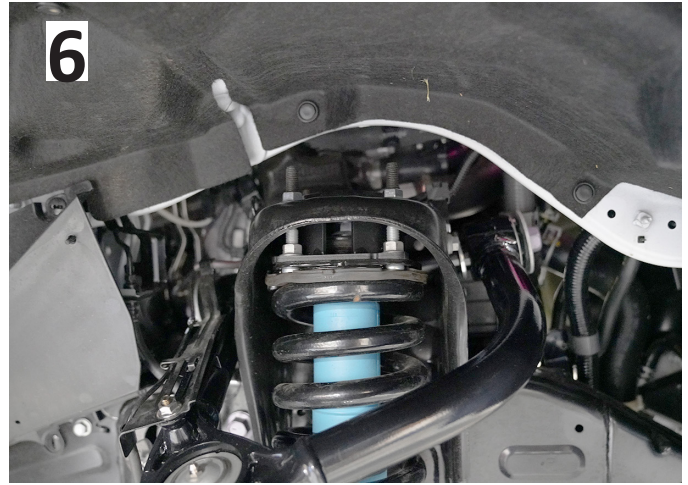
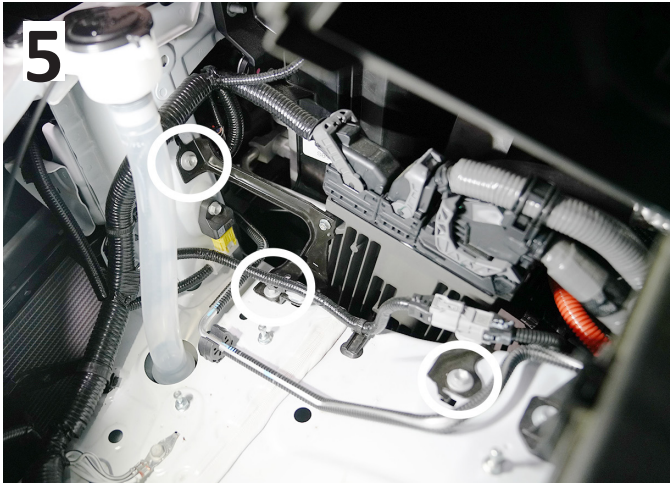


7. Disconnect the tie rod from the knuckle. [24mm]
8. [Illustration 3] Disconnect the ABS bracket from the upper control arm. [10mm]
9. Disconnect the upper control arm from the knuckle; carefully rotate the knuckle towards the rear of the vehicle and secure to the frame with a bungee cord. [19mm]
10. Support the lower control arm.
11. Loosen the lower control arm bolts.
12. Remove the lower strut bolt from the lower control arm. [22mm]
13. Remove the nuts from the upper strut bolts, then remove the strut from the vehicle. [14mm]
14. Repeat on the passenger side.
15. Remove the passenger side upper control arm bolt and the control arm from the vehicle. [22mm]
16. [Illustration 4] Under the hood, in the engine compartment on the driver's side locate the air

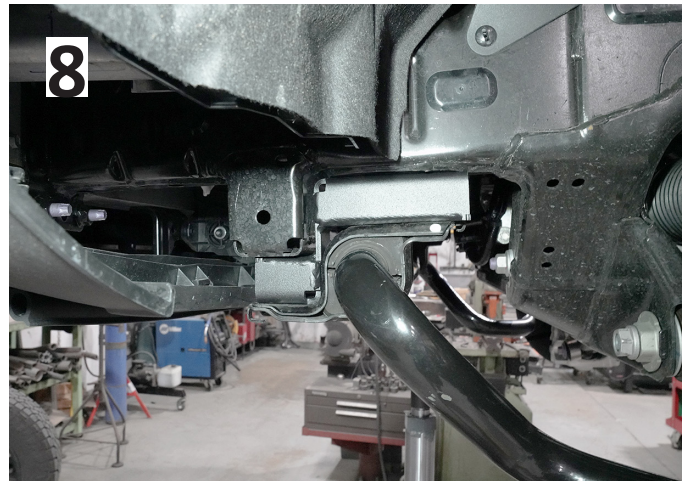
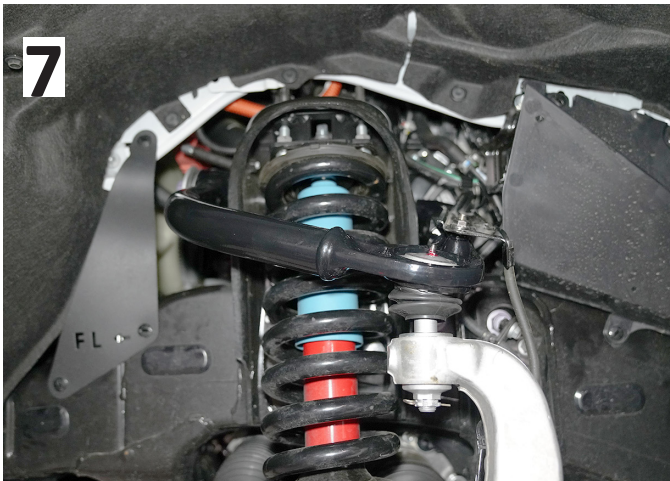


filter box and remove to allow access to PCM bolts.

17. Make certain the battery is disconnected; then remove the bolts retaining the PCM. [10mm]
18. [Illustration 5] Carefully move the PCM to the side allowing access to the upper control arm bolt. NOTE: it may be necessary to unplug the plug closest to the front of the vehicle to allow for enough slack. To do this slide the lever towards the rear of the vehicle and then unplug the plug from the PCM.
19. Install the new strut spacer (55-05-8230) on the factory strut using the factory nuts. [14mm]
20. [Illustration 6] Reinstall the strut assembly in the vehicle and secure to the frame using the supplied 10mm flange nuts. [15mm]



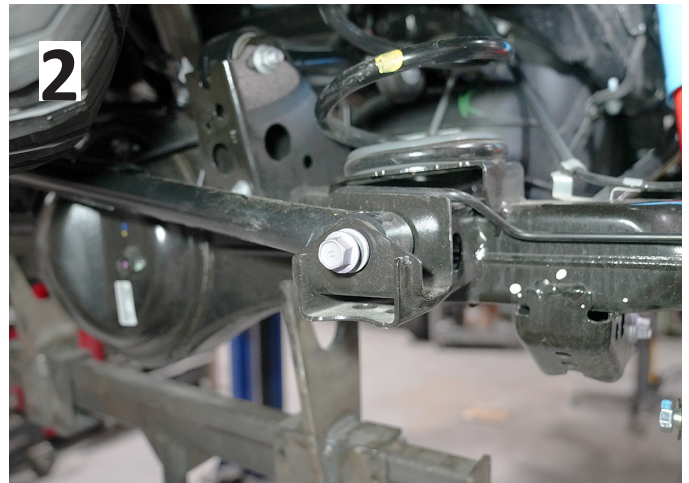
21. Install the strut into the lower control arm and loosely secure using the factory hardware. [22mm]
22. [Illustration 7] Install the new upper control arm (TA339) into the frame using the supplied washers between the control arm and the frame; secure using the factory hardware. [22mm]
23. Connect the upper control arm to the knuckle using the factory hardware. [19mm]
24. Grease the upper control arm ball joints. **NOTE: They are NOT greased from the factory. Failure to grease these ball joints will cause premature failure and void all warranties.**
25. Attach the factory ABS bracket to the new upper control arm.
26. Reconnect the tie rod to the knuckle. [24mm]
27. [Illustration 8] Reattach the sway bar to the frame with the new sway bar drop (55-10-8230) between the sway bar and the frame, secure using the supplied 12mm bolts and washers.



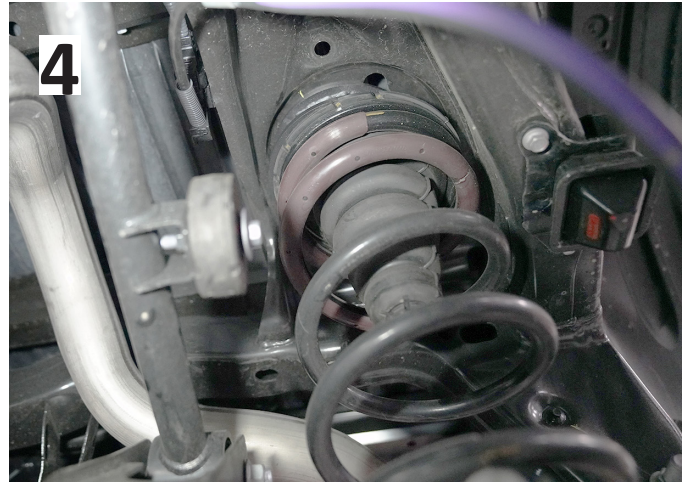
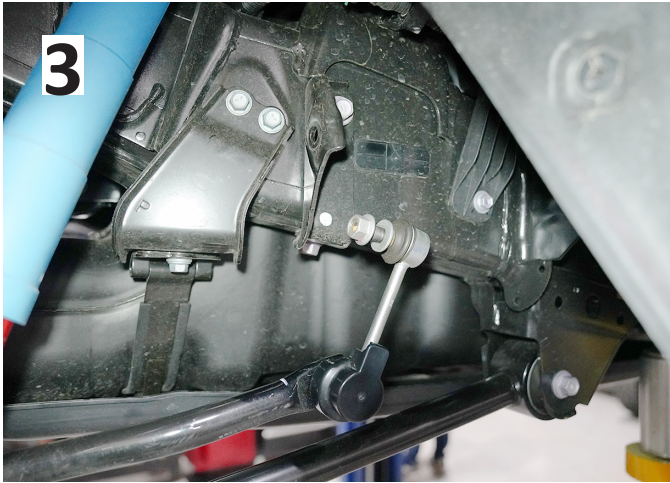
28. Reattach the sway bar links to the lower control arm using the factory hardware. [19mm]
29. If the PCM plugs were unplug, reconnect them and reinstall PCM in the factory location using the factory hardware.
30. Reinstall the air filter box in the factory location using the factory hardware.
31. Reinstall the factory front skid plate using the new taller spacers (55-06-8400) in the front mounting location and the new shorter spacers (55-05-3600) in the middle mounting location between the frame and the skid plate and secure using the supplied 8mm hardware. The rear mounting location will use the factory hardware with no spacers.
32. Install the tires and wheels.
33. Lower vehicle to the ground.
34. Tighten the lower control arm bolts and lower strut bolt.

## REAR INSTALLATION

1. Raise the rear of the vehicle with a jack and secure on jack stands.
2. Remove the rear tires and wheels.
3. Support the rear axle with a jack.
4. [Illustration 1] Unbolt the rear ABS bracket from the axle on both driver and passenger sides. [12mm]
5. Unbolt the brake line bracket on the passenger side at the frame. [12mm]
6. [Illustration 2] Loosen but do not remove the rear track bar bolt. [19mm]



7. [Illustration 3] Disconnect the sway bar link from the frame. [17mm]
8. Remove the rear shock. [19mm, 8mm, 17mm]
9. Carefully lower the axle and remove the rear coil spring.
10. [Illustration 4] Install the new coil spacer (55-07-8400), attaching it to the frame using the supplied tab nut (55-13-8400) and 3/8" hardware. The bolt will go through the center most hole in the coil seat on the frame.



11. Reinstall the coil spring and raise the axle until the coil spring is firmly seated.
12. [Illustration 5] Locate the new axle shock bracket (55-07-8230) and install the supplied 3/4" bolt through the upper most hole with the bolt pointing away from the clevis.
13. [Illustration 5] Install the new shock bracket assembly on the axle and loosely secure it through the rearmost hole using the supplied 5/8" hardware.
14. [Illustration 5] Position the lower shock eye over the 3/4" bolt located in the new shock bracket, then slide the new outer shock bracket (55-08-8230) over the 3/4" bolt and the factory shock tube; then loosely secure with the supplied 3/4" and 12mm hardware.
15. Install the shock upper stem through the frame and secure using the factory hardware.
16. Tighten the 5/8" hardware for the new shock bracket.
17. Tighten the 12mm hardware for the new shock bracket.
18. Install the new frame brake line bracket (55-09-8230) to the frame securing it with the factory hardware.
19. Attach the factory brake line bracket to the new bracket using the supplied 5/16" hardware.
20. Reattach the sway bar link to the frame using the factory hardware.
21. Reattach the ABS brackets to the frame using the factory hardware.
22. Install the tires and wheels.
23. Lower the vehicle to the ground.
24. Tighten the 3/4" hardware for the lower shock mount.
25. Tighten the rear track bar bolt.





## FINAL CHECKS

1. With the vehicle on the ground, check all components for proper operation and clearances. Pay special attention to the clearance between the tires and wheels, brake hoses, wiring, etc. Check tires and wheel clearance with the fenders and bumpers.
2. Realign the vehicle to factory specifications. It is necessary to have the proper and professional alignment performed by a certified alignment technician. It is recommended that your vehicle alignment be checked after any off-road driving.
3. Adjust headlights to proper setting.
4. Activate the four wheel drive system and check for proper engagement.
5. Install the "Warning to Driver" decal on the inside of the windshield, sun visor or on the dash, within the driver's view.

### IMPORTANT MAINTENANCE INFORMATION

It is the ultimate buyer's responsibility to have all bolts / nuts checked for tightness after the first 100 miles and then every 1000 miles. The steering, suspension and driveline systems, plus wheel alignment should be inspected by a qualified professional mechanic at least every 3000 miles.

### LIMITED LIFETIME WARRANTY / WARNINGS

Your SUPERLIFT® product is covered by the Limited Warranty explained below that gives you specific legal rights. This limited warranty is the only warranty SUPERLIFT® makes in connection with your product purchase. SUPERLIFT® neither assumes nor authorizes any retailer or other person or entity to assume for it any other obligation or liability in connection with this product or limited warranty.

### SUPERLIFT, LLC, LIMITED LIFETIME WARRANTY

What is covered? Subject to the terms below, SUPERLIFT® will repair or replace its products found defective in materials or workmanship for so long as the original purchaser owns the vehicle on which the product was originally installed. Your warranter is SUPERLIFT, LLC, doing business as SUPERLIFT® Suspension Systems ("SUPERLIFT®").

What is not covered? Your SUPERLIFT® Limited Warranty does not cover products SUPERLIFT® determines to have been damaged by or subjected to:

- Alteration, modification or failure to maintain.
- Normal wear and tear (bushings, rod ends, etc.). Scratches or defects in product finishes (powder coating, plating, etc.).
- Damage to, or resulting from, the vehicle's electronic stability system, related components or other vehicle systems.
- Racing or other vehicle competitions or contests. Accidents, impact by rocks, trees, obstacles or other aspects of the environment.
- Theft, vandalism or other intentional damage.

Remedy Limited to Repair or Replacement. The exclusive remedy provided hereunder shall, upon SUPERLIFT's inspection and at SUPERLIFT's option, be either repair or replacement of the product covered under this Limited Warranty. Customers requesting warranty consideration should contact SUPERLIFT® by phone (1-800-551-4955) to obtain a Returned Goods Authorization number. All removal, shipping and installation costs are customer's responsibility.

If a replacement part is needed before the SUPERLIFT® part in question can be returned, you must first purchase the replacement part. Then, if the part in question is deemed warrantable, you will be credited / refunded.

#### **OTHER LIMITATIONS - EXCLUSION OF DAMAGES - YOUR RIGHTS UNDER STATE LAW**

- Neither SUPERLIFT® nor your independent SUPERLIFT® dealer are responsible for any time loss, rental costs, or for any incidental, consequential or other damages you may have.
- This Limited Warranty gives you specific rights, and this is the only warranty SUPERLIFT® makes in connection with your product purchase. You may also have other rights that vary from state to state. For example, while all implied warranties are disclaimed herein, any implied warranty required by law is limited to the terms of our Limited Lifetime Warranty as described above. Some states do not allow limitations of how long an implied warranty lasts and / or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations and exclusions herein may not apply to you. SUPERLIFT® neither assumes nor authorizes any retailer or other person or entity to assume for it any other obligation or liability in connection with this product or Limited Warranty.

#### **IMPORTANT PRODUCT USE AND SAFETY INFORMATION / WARNINGS**

As a general rule, the taller a vehicle is, the easier it will roll over. Offset, as much as possible, what is lost in rollover resistance by increasing tire track width. In other words, go “wide” as you go “tall”; always use as wide a tire and wheel combination as feasible to enhance vehicle stability. We strongly recommend, because of rollover possibility, that the vehicle be equipped with a functional roll bar and cage system. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur.

Generally, braking performance and capabilities are decreased when significantly larger / heavier tires and wheels are used. Take this into consideration while driving. Also, changing axle gear ratios or using tires that are taller or shorter than factory height will cause an erroneous speedometer reading. On vehicles equipped with an electronic speedometer, the speed signal impacts other important functions as well. Speedometer recalibration for both mechanical and electronic types is highly recommended.

Do not add, alter, or fabricate any factory or aftermarket parts to increase vehicle height over the intended height of the SUPERLIFT® product purchased. Mixing component brands is not recommended.

#### **THANK YOU FOR CHOOSING SUPERLIFT!**

For questions, technical support and warranty issues relating to this SUPERLIFT products, please contact SUPERLIFT directly.

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