



# INSTALLATION GUIDE

**PART NUMBER: 154301**  
**4" TO 6" LIFT KIT**  
**TOYOTA TACOMA 4WD | 2016-2021**

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

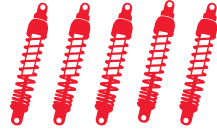
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



**DIFFICULTY:**



**INSTALLATION TIME:**

6-8 Hours  
+ Alignment

## RECOMMENDED TOOLS:

- Properly rated floor jack
- Ratcheting socket wrench and socket set
- Allen Wrench Set
- Hammer
- Phillips head screwdriver
- Flat head screwdriver or pry tool
- Support stands
- Wheel chocks
- Metric wrench set
- Tape measure
- Paint Pen
- Safety glasses
- Black spray paint
- Vice
- Rubber Mallet
- Large zip ties
- Brass punch

## SPECIALTY TOOLS:

- High quality spring compressor
- Torque wrench up to 200lbs
- Reciprocating saw and/or angle grinder with metal cutting blades



## FITMENT GUIDE

16" minimum wheel diameter

5" maximum back spacing

Fits up to a 35" tire at a 6" lift

## 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.

## FRONT REMOVAL

- Using a 12mm socket, remove the factory bolts for the skid plate. Remove the six bolts holding the two brackets for the radiator support and stock cross-member with a 17mm socket.
- Remove the ABS brackets from the upper control arms, using a 10mm socket. Keep the hardware to use later.



- Using a panel popper, remove the clip holding the ABS sensor wire to the bracket on the spindle.
- Remove the ABS bracket from each spindle, using a 12mm socket.
- Remove the ABS sensor using a 10mm socket.



- Using a 19mm socket, disconnect the tie rod by removing the cotter pin and castle nut. Strike the side of the spindle to allow the tie rod to separate from the knuckle. Repeat the step for the other side.



- Using a 17mm wrench, remove the sway bar end link from the spindle.

## FRONT REMOVAL CONTINUED

16. Using a 17mm wrench, remove the brake caliper bolts. You may carefully use a large zip tie to secure the caliper out of the way. Be sure not to stretch the brake line.



17. Remove the disc brake rotor.



18. Remove the outer dust cap with a small flat head screw driver or pry tool.



## FRONT REMOVAL CONTINUED

19. Remove the pin, pull off the castle washer, and remove the axle nut with a 35mm socket.



20. Using a 17mm wrench, loosen the 4 bolts that are holding the hub to the spindle. Remove the hub and brake dust cover.



21. Remove the cotter pin on the upper ball joint.



22. Loosen, but do not remove the upper control arm ball joint, using a 19mm socket or wrench.



23. Strike the spindle with a hammer to dislodge the taper.

## FRONT REMOVAL CONTINUED

24. Remove the two lower control arm ball joint bolts using a 19mm socket or wrench.



25. Carefully push the axle out of the spindle. It is important to not damage the seal in the spindle.



26. Remove the upper control arm ball joint nut and spindle.





## FRONT REMOVAL CONTINUED

27. Carefully, remove the axle seal from the spindle by prying against the metal flange with a flat head screw driver or small pry tool. It may be necessary to gently tap the tool with a hammer to get it started.



28. Place the Belltech lifted spindle face down and carefully tap the OE CV seal into the lifted spindle. If necessary, it can be helpful to use a brass punch against the metal flange to encourage it into place.



29. Place a floor jack or jack stand below the lower control arm and remove the top three strut nuts with a 14mm wrench.

30. Using a 19mm socket and wrench, remove the bolt on the lower strut mount. Remove the strut from the truck.



31. Remove the sway bar brackets from the frame, using a 14mm socket.



## FRONT REMOVAL CONTINUED

32. Using two 22mm wrenches, remove the lower control arms.



33. Disconnect the driveline from the differential, using a 14mm socket.
34. Unplug the vent tube and remove the differential actuator. Remove the actuator wires from the differential on the passenger side. Unplug and remove the vent tube from the top on the differential. Using a 12mm socket, remove the bracket.



35. Support the differential with a jack, remove the driver and passenger differential bracket using a 22mm socket on the frame side and a 19mm socket on the differential side of the bracket.
36. Using a 12mm Allen socket, remove the rear differential mount.



37. Use the jack to lower the differential and remove it from the vehicle.

# FRONT CUTTING INSTRUCTIONS

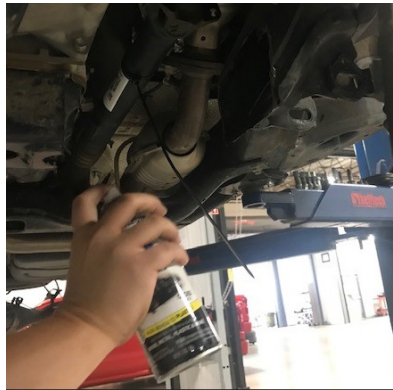
38. Starting at the edge of the lower control arm mounting plate, on the back side of the rear crossmember, use a paint pen to make one mark at 3.25" and another mark at 10.5".



39. Using a reciprocating saw or angle grinder with cutting blades, cut through the marks made in the previous step.



40. Grind or sand down any rough edges and use black spray paint to spray over the bare metal cutting exposed.



# FRONT INSTALLATION

41. Grease and install the Belltech bushings into the Belltech differential drop brackets. If the brackets are tricky to slide into place, you may use a vice or a rubber mallet to help ease them into their proper positions. It is best to get the rubber bushings installed before the metal sleeves.



# FRONT INSTALLATION CONTINUED

42. Attach and tighten Belltech differential drop brackets, using supplied hardware.



43. Using the supplied M14x25mm bolts and washers, secure the front driver differential drop brackets to the differential and torque to OE specifications.



## Technician note:

When re-installing the differential, front crossmember, and rear crossmember, the order in which you install them is optional and can be performed in an order that best suits you and the equipment/space you have available.

44. Use the OE hardware and a 19mm socket to bolt the passenger side differential to the mounting bracket.
45. Insert the front and rear crossmembers into the frame using the supplied bolts, washers, and nylock nut. Hand-tighten the hardware.



46. Use your jack to raise the differential and maneuver it back into place.



47. Use the OE hardware to secure the rear, driver side, differential mount to the rear crossmember.
48. Use the supplied hardware to secure the front of the differential to the front crossmember and the rear passenger side to the rear crossmember.

## FRONT INSTALLATION CONTINUED

49. Plug the vent tube and differential actuator back into the differential. Ensure the vent hose and wiring are not rubbing on any moving parts and they have slack in them. Use a 12mm socket to tighten the actuator and the vent tube. At this stage, it is sometimes necessary to bend the vent tube bracket to get it to fit properly. You may use the photos below for reference.



50. Using the OE hardware and a 14mm wrench, reattach the driveline.
51. Insert both lower control arms into the Belltech crossmember and secure with the OE cam bolts. Hand tighten. These will be torqued to OE specifications once they are under the weight of the truck.



52. Torque all the differential bolts to OE specifications.
53. Tighten crossmember bolts to 180 ft lbs.

## FRONT INSTALLATION CONTINUED

54. Mount the sway bar relocation bracket onto the frame with the supplied bolts. Ensure that the two threaded studs on the relocation bracket are towards the front of the vehicle. Install the sway bar brackets onto the studs with provided nuts.



### Technician note:

For strut spacer Installation: Please refer to the instructions that were included in the strut spacer kit.

For Trail Performance Strut or Coilover Installation: Please refer to the instructions included within the strut or coilover kit. (28015-888) or (15306-888)

55. Install the new Belltech spindle by reattaching the upper control arm ball joint, using the OE hardware.
56. Slide the supplied steering stop brackets over the front lower ball joints and secure the lower ball joints and steering stops with the OE hardware.



57. Re-install the factory hub and dust shield into the Belltech lifted spindle, using the OE hardware, and tighten with a 17mm wrench.
58. Re-install the axle nut with a 35mm socket. Torque to OE specifications. Secure the nut with the OE cotter pin.
59. Secure the outer dust cap.
60. Using a 12mm wrench, unbolt the OE brake line bracket and attach the supplied brake line drop bracket with the OE hardware. Using the supplied hardware, attach the brake line to the brake drop bracket.

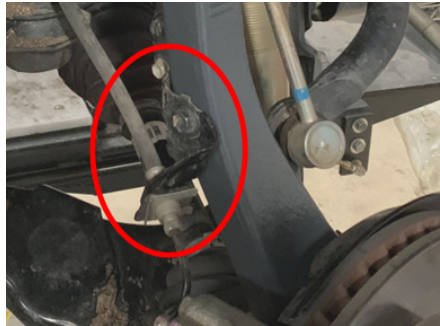


## FRONT INSTALLATION CONTINUED

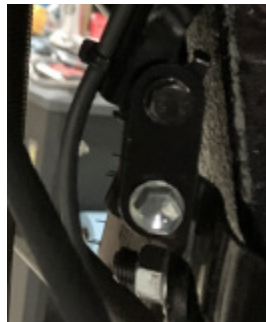
61. Reinstall the brake rotor and brake caliper to the belltech spindle. Torque to OE specifications.
62. Using a 10mm socket, install the ABS sensor and bracket to the Belltech spindle with OE hardware.



63. Install the brake line bracket to the Belltech spindle, using a 12mm socket.



64. Using a 10mm wrench, remove the ABS line from the brake line bracket on the spindle. Add the extension bracket to the OE bolt. Attach the ABS line to the extension bracket with the provided hardware.



65. Attach the sway bar end link through the Belltech spindle and secure it using the OE hardware. Torque to OE specifications.



66. Insert the tie rod end into the Belltech spindle using OE hardware and tighten to OE specifications using a 19mm wrench. Reinstall the OE cotter pin.
67. Using the supplied bolts, secure the Belltech differential skid plate to the front and rear crossmembers.
68. Replace the six bolts holding the two brackets for the radiator support and stock cross-member with a 17mm socket. Using a 12mm socket, re-install the factory bolts for the skid plate.

## **FINALIZING FRONT INSTALLATION**

69. Re-install the front wheels and tighten the lug nuts.
70. Lift the vehicle and remove the support stands.
71. Carefully lower the vehicle onto the flat ground.
72. Torque the lug nuts and control arms to manufacturer's specifications.
73. Check that all components and fasteners have been properly installed and torqued.

## **PREPARING FOR REAR INSTALLATION**

74. Confirm your vehicle is still on a smooth, level, concrete or seasoned asphalt surface.
75. Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or 1st gear (manual).
76. Confirm the parking brake is still engaged.
77. Loosen, but do not remove, the rear wheel lug nuts.
78. Lift the rear of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the rear tires are approximately 6-8 inches off the ground.
79. 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.
80. Lower the vehicle slowly onto the stands.
81. Remove the rear wheels (optional).



# REAR REMOVAL

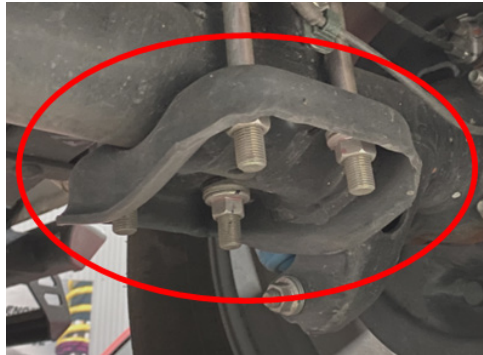
82. Using a 17mm socket and wrench, remove the rear shocks. For the shock tops, use a 14mm wrench.



83. Using a 12mm socket, remove all brake line and e-brake brackets from the axle and springs.



84. Support the rear axle with a floor jack. Using a 19mm socket, remove the rear U-bolts.



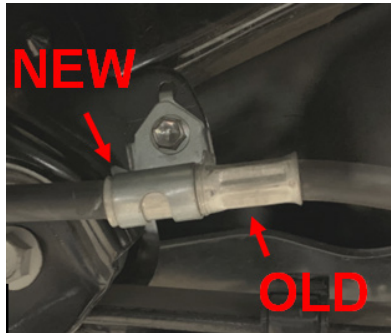
85. Lower the rear axle down and slowly rest it onto two Jack stands. You will want to allow enough room for the rear lift blocks to be installed.

## REAR INSTALLATION

86. Install the rear lift blocks between the leaf spring and the spring perch, on the axle. Ensure the blocks are sitting flat on the spring perch and the springs. The blocks should be installed with the tallest portion towards the rear of the vehicle.



87. Lift the rear axle back up and install the Belltech U-bolts. Tighten the U-bolt nuts in a "X" pattern. Torque U-bolts to 90 ft lbs.
88. Install the new Belltech rear shocks with the OE hardware on the bottom and the supplied nuts on top. Tighten the top nuts until they bottom out. You will need a 16mm wrench for the top of the shock and a 17mm for the bottom.
89. Locate the brake line clamps towards the front of the leaf springs. Carefully pry open the clamp and slide the brake line down. Re-clasp the bracket around the front portion of the metal piece on the brake line. Below, the photo exemplifies the driver side.

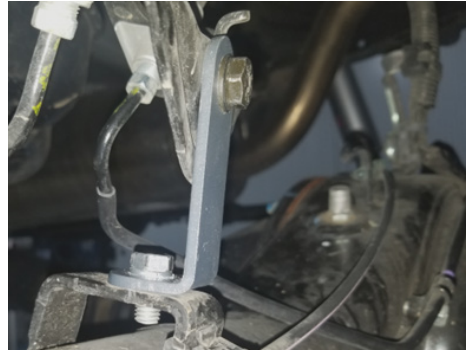


90. Using a 12mm and 13mm wrench, install the brake line re-locator brackets by attaching the bracket to the OE location with the OE hardware. Install the OE bracket to the Belltech re-locator bracket using the supplied hardware.



## REAR INSTALLATION

91. On the driver side of the rear axle, bolt the rear brake extension bracket to the axle by using the OE hardware and a 12mm wrench. Attach the factory bracket to the extension bracket using the supplied bolt, washer, and nylock nut.



92. Re-install the bracket on top of the differential pointing upward.



93. With the rear axle still supported, use a 14mm wrench to loosen the two bolts holding the carrier bearing. Remove one of the carrier bearing bolts completely and slide the Belltech carrier bearing spacer between the frame and the bracket. Replace the OE bolt with the supplied M10 bolt, using a 17mm wrench, on the side that now has the Belltech spacer. Once the bolt is in place and secure, repeat the process for the other side, adding the Belltech spacer and replacing the OE bolt with the Belltech M10 bolt. Torque the carrier bearing bolts to OE specifications.



# FINALIZING THE INSTALLATION

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



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## 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](http://www.belltech.com)!

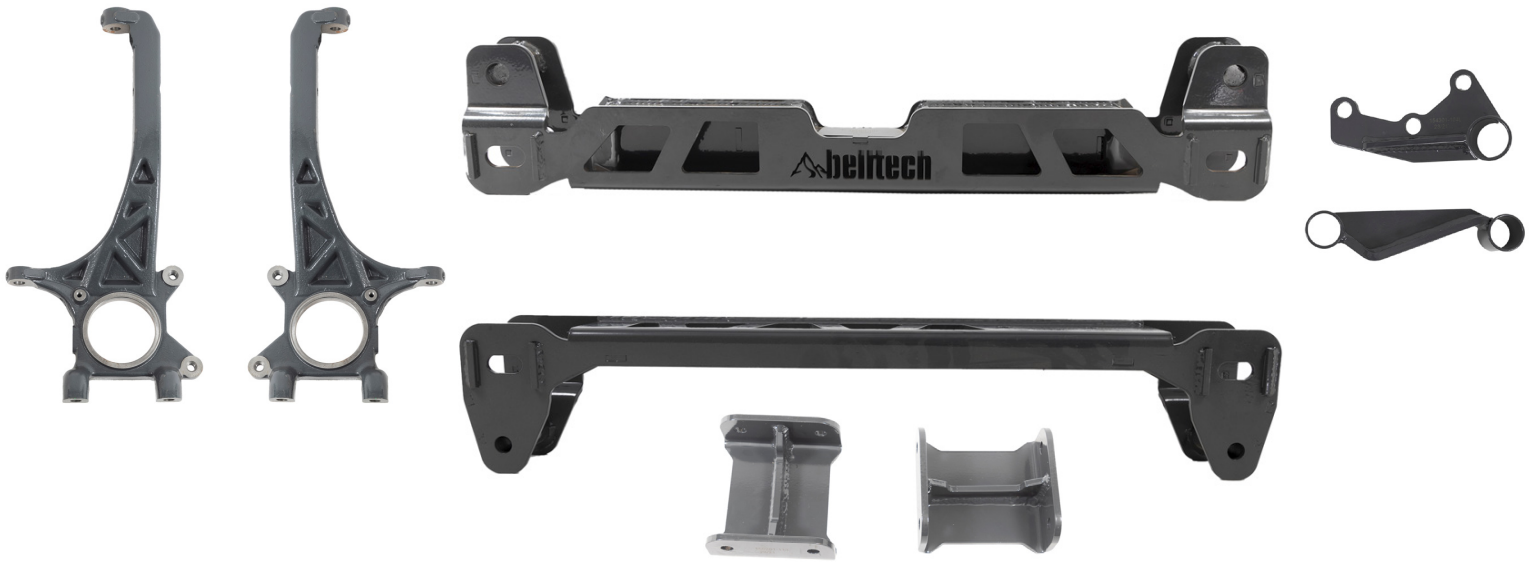
If you have any questions, concerns, or warranty related issues regarding your Belltech product, please call or email our experienced customer service specialists.

### Belltech Customer Support:

Phone: 1-800-445-3767

Email: [info@belltech.com](mailto:info@belltech.com)

# KIT CONTENTS



154301TP Kit Contents		
Part number	Description	Qty
LK9708F	Shock Set	1
LK9708R	Shock Set	1
LK2016	Lift Spindle Set	1
LK40000	Component Kit Front	1
LK40001	Component Kit Rear	1
LK40002	Component Kit	1

154301HK Kit Contents		
Part number	Description	Qty
15306	Lift Coilover Kit	1
LK9708R	Shock Set	1
LK2016	Lift Spindle Set	1
LK40000	Component Kit Front	1
LK40001	Component Kit Rear	1
LK40002	Component Kit	1
5467	Front Anti-Sway Bar Kit	1

154301TPS Kit Contents		
Part number	Description	Qty
LK9708F	Shock Set	1
LK9708R	Shock Set	1
LK2016	Lift Spindle Set	1
LK40000	Component Kit Front	1
LK40001	Component Kit Rear	1
LK40002	Component Kit	1
5467	Front Anti-Sway Bar Kit	1

LK9708F		
Part number	Description	Qty
28015	Trail Performance Strut	2

LK9708R		
Part number	Description	Qty
TP10916C	Trail Performance Shock	2

# KIT CONTENTS

LK2016		
Part number	Description	Qty
154301-103L-982	Driver Side Lift Spindle	1
154301-103R-982	Passenger Side Lift Spindle	1

LK40000		
Part number	Description	Qty
154301-101-992	Front Crossmember	1
154301-102-992	Rear Crossmember	1
154301-108-992	Differential Skid Plate	1
154301-129L-992	Left Steering Stop	1
154301-129R-992	Right Steering Stop	1
154301-131-992	Sway Bar Mount Re-locator	2
LK40000A	Sub Kit A (Front)	1

LK40000A		
Part number	Description	Qty
154301-226-951	Front Brake Drop Bracket	2
154301-128-951	Front ABS Bracket	2
154301A-777	Hardware Kit	1
154301C-777	Hardware Kit	1
154301D-777	Hardware Kit	1
154301F-777	Hardware Kit	1
154301H-777	Hardware Kit	1

Hardware Kit 154301A-777		
Part number	Description	Qty
112169	M22 x 2.5mm - 120mm Bolt	2
112172	M22 x 2.5mm Nylock Nut	2
112175	M22 Washer	4
110281	M16 x 2mm - 140mm Bolt	2
110242	M16 x 2mm Nylock Nut	2
110219	M16 Washer	4

Hardware Kit 154301C-777		
Part number	Description	Qty
110230	M10 x 1.25mm - 25mm Bolt	4
110244	M10 x 1.25mm Nylock Nut	4
110239	M10 Washer	4

Hardware Kit 154301D-777		
Part number	Description	Qty
112142	M10 x 1.5mm - 25mm Serrated Bolt	4

Hardware Kit 154301F-777		
Part number	Description	Qty
110232	M8 x 1mm - 16mm Bolt	5
110233	M8 x 1mm Nylock Nut	5
110245	M8 Washer	10
110234	M6 x 1mm - 16mm Bolt	2
110235	M16 x 1mm Nylock Nut	2
110117	M6 Washer	4

Hardware Kit 154301H-777		
Part number	Description	Qty
9999-001	Loctite 271 Red Threadlocker	1
9999-028	Loctite 242 Blue Threadlocker	1

# KIT CONTENTS

LK40001		
Part number	Description	Qty
154301-201-992	Lift Block	2
154301-202-951	U-Bolt	4
154301-216-992	Carrier Bearing Spacer	2
154301-225-951	Rear Brake Caliper Re-locator	2
154301-227-951	Rear Brake Hose Re-locator	1
154301G-777	Hardware Kit	1
154301E-777	Hardware Kit	1

Hardware Kit 154301B-777		
Part number	Description	Qty
112103	M14 x 1.5mm - 90mm Hex Bolt	3
110292	M14 x 1.5mm Nylock Nut	3
110223	M14 Washer	9
112177	M14 x 1.5mm - 25mm Bolt	3

15306		
Part number	Description	Qty
68510039	Spanner Wrench	1
15306-100	Lift Coilover	2

Hardware Kit 154301G-777		
Part number	Description	Qty
110292	M14 x 1.5mm Nylock Nut	8
110223	M14 Washer	8

Hardware Kit 154301E-777		
Part number	Description	Qty
112179	M10 x 1.25mm - 50mm Bolt	2
112180	M10 Large OD Washer	2

LK40002		
Part number	Description	Qty
154301-104L-992	Left Side Differential Drop	1
154301-104R-992	Right Side Differential Drop	1
154301B-777	Hardware Kit	1