



INSTALLATION GUIDE

PART NUMBER: 352080
COILOVER KIT
FORD MAVERICK AWD | 2022-2024

-2" TO -4" FRONT AND -3" TO -5" REAR HEIGHT ADJUSTABLE LOWERING

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 7am to 5pm PST.

We recommend that a qualified mechanic, in 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.

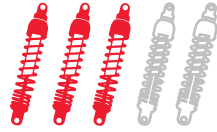
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME:

4-5 Hours +
Alignment

RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- Metric socket wrench set
- Metric wrench set
- Tape measure
- Marking Pen
- Torque wrench up to 150 ft lbs.



Technician note:

Before making any adjustments to your new Belltech coilover, please be sure to loosen the set screw on the lower spring perch. Failure to do so will damage the threads. After the adjustments are made, you may then tighten the set screw to keep the settings in place.



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. Break loose, but do not spin the wheel lug nuts to ease in removal when the wheels are in the air.
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 the 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.

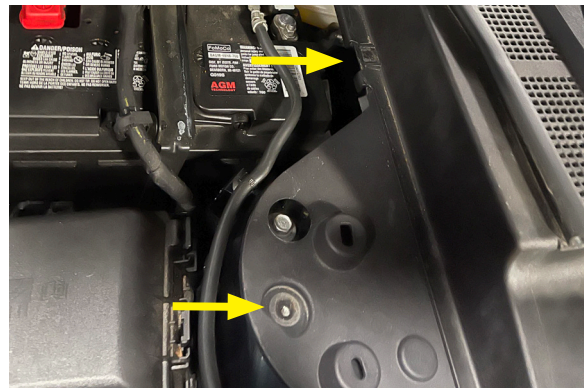
OEM FRONT STRUT REMOVAL

9. Detach the clips across from the cowl. Remove the bolt holding the strut tower cover and lift the cover. Remove the three 13mm top mount bolts.



Technician note:

On the passenger side only, it may be necessary to remove the bolt holding the wiper fluid reservoir to the vehicle to gain additional clearance at the strut tower.



10. Detach the grommet at the strut tab and the clip holding the wheel speed sensor to the lower end of the strut and disconnect the harness from the sensor on the knuckle.

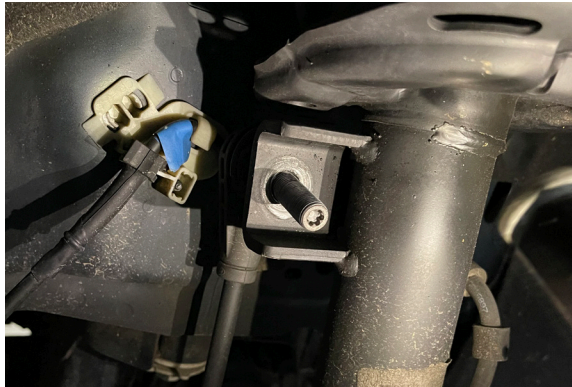


11. Remove the 8mm bolt holding the brake line tab to the strut and detach the line.



OEM FRONT STRUT REMOVAL CONTINUED

12. Remove the 18mm upper and lower end link nuts. If the ball joint stud pins, use a box wrench and T40 Torx socket to hold the stud. Detach the end links from the vehicle.



13. Remove the two 21mm lower strut nuts and remove the 18mm bolts with a mallet.



14. Detach the strut from the knuckle. Hold the strut as it is being removed to not let it fall and guide the strut out from the vehicle. Ensure the speed sensor line and brake line components are not caught on the strut while being removed.

BELLTECH FRONT COILOVER HEIGHT SETUP AND ASSEMBLY

- 15. The coilover is delivered assembled.
- 16. Loosen the set screw on the spring perch.



Technician note:

After installation a final shop alignment procedure is recommended to minimize tire wear.



Technician note:

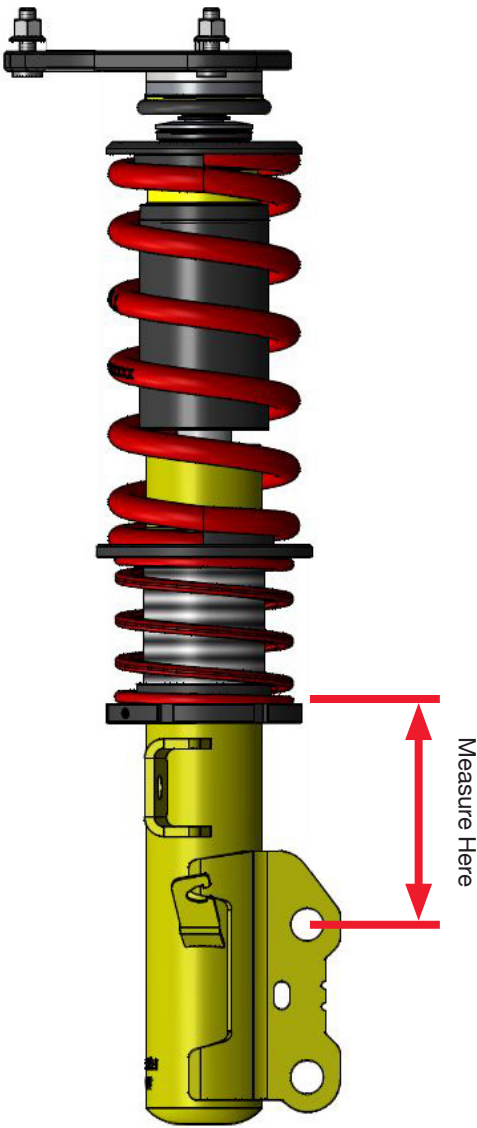
Your vehicle's exact ride heights may vary due to differences in chassis and trim levels. The perch heights depicted on our tables are a suggested starting point.

It is recommended to preset a higher "A" measurement and adjust down, clockwise, to the desired vehicle height once the coilover is installed.

Belltech does not recommend lowering beyond what is advertised in the table below as the performance of the shock may be greatly decreased.

Belltech uses packers to maintain the correct bump stop engagement at various height ranges. Using the appropriate packer will prevent excessive body roll. If a packer is needed, according to the table below, please place the packer on top of the vent disc, channel side down.

2022-2024 Maverick		
Drop (Inches)	15mm Packer	Spring Perch Height "A" Measurement
2"	2	149mm
3"	1	133mm
4"	0	117mm



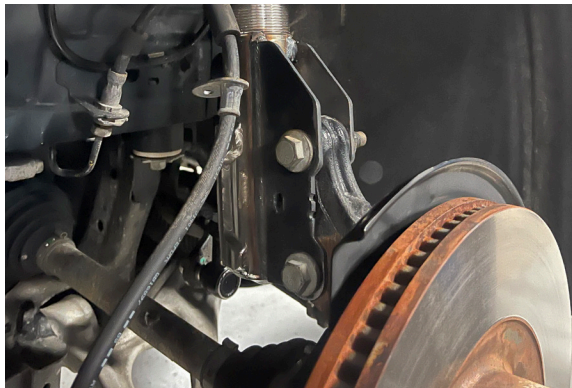
- 17. Use the provided spanner wrench to turn the bottom spring perch to obtain desired spring perch height. Measure from the top of the perch to the center of the lower mount top bolt hole. Find the appropriate spring perch height by referencing the table above. We do not recommend adjusting outside of the specified height range as the performance of the shock may decrease greatly.
- 18. Tighten the set screw but do not over tighten the set screw. Max torque is 1-2 Nm (1.5 ft lbs.)
- 19. Torque the supplied top mount nut on the coilover to 41 ft lbs.

BELLTECH FRONT COILOVER INSTALLATION

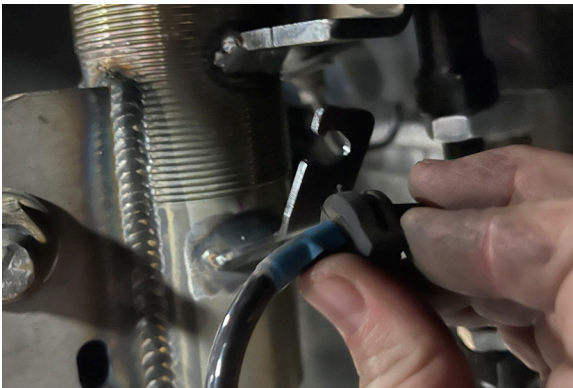
20. Install the coilover assembly into the strut tower and secure it using the three top mount nuts. Torque to 22 ft lbs.



21. Attach the lower strut mount to the knuckle using the original bolts and nuts. Torque the nuts to 103 ft lbs. + 120°turn.

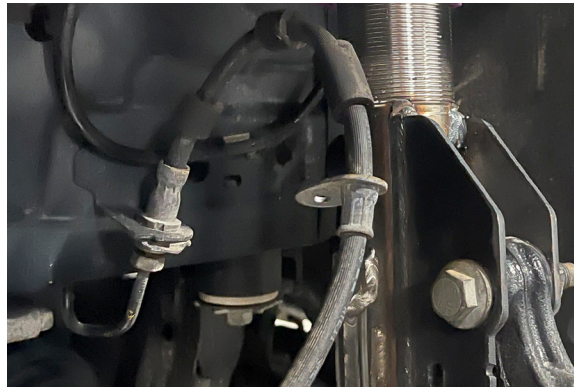


22. Place the wheel speed sensor line onto the new strut retainers and plug in the harness.

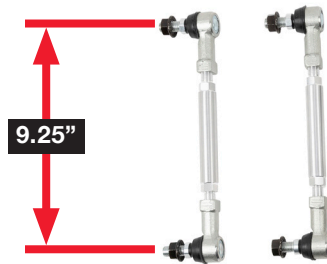


BELLTECH FRONT COILOVER INSTALLATION CONTINUED

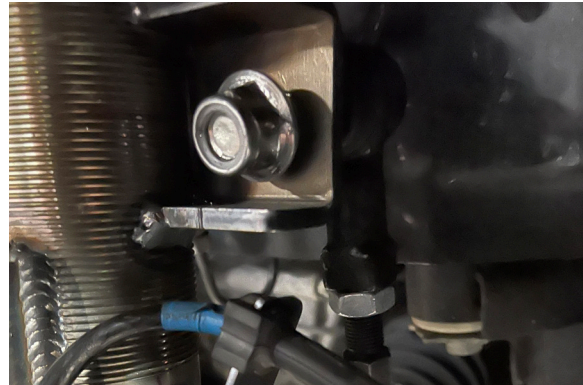
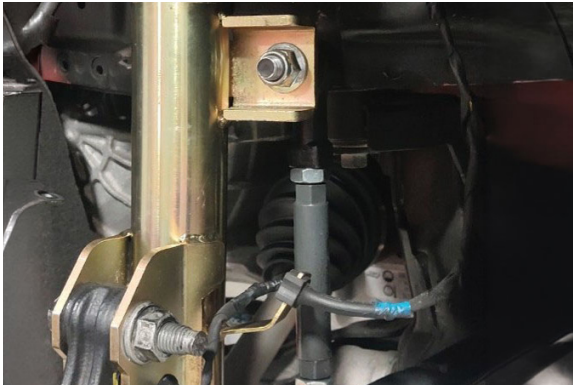
23. Attach the brake line to the strut with the original bolt, torque to 97 *in lbs*.



24. Set the adjustable Belltech end links to a length of approximately 9.25" and tighten the jam nuts to set the length.



25. Attach the Belltech end link to the to the strut and sway bar. The length of the end link may need to be adjusted further after the vehicle is lowered to the ground if needed. Attach the upper end link to the strut using the supplied nut; torque to 81 ft lbs. Attach the lower end link to the sway bar using the supplied nut; torque to 85 ft lbs.



26. Mount the wheels and tighten the lug nuts. Do not torque yet.

OEM REAR SUSPENSION REMOVAL

27. Support the rear lower control arm with a jack and remove the 15mm lower shock mount bolt.



28. Remove the two 18mm upper shock mount bolts.



29. Remove the 15mm lower knuckle bolt and detach the wheel speed sensor harness retaining clips from lower the control arm.



OEM REAR SUSPENSION REMOVAL CONTINUED

30. Carefully lower the control arm with the jack. Remove the shock and the coil spring assemblies.



31. Remove the original upper and lower spring isolators.



32. Clean the surfaces where the original isolators were as new isolators will be installed.

33. Detach the top mounts from original shocks to use on the new Belltech shocks.



BELLTECH REAR HEIGHT ADJUSTER SETUP AND ASSEMBLY

- 34. The rear suspension components must be assembled.
- 35. Loosen the set screw on the spring perch.



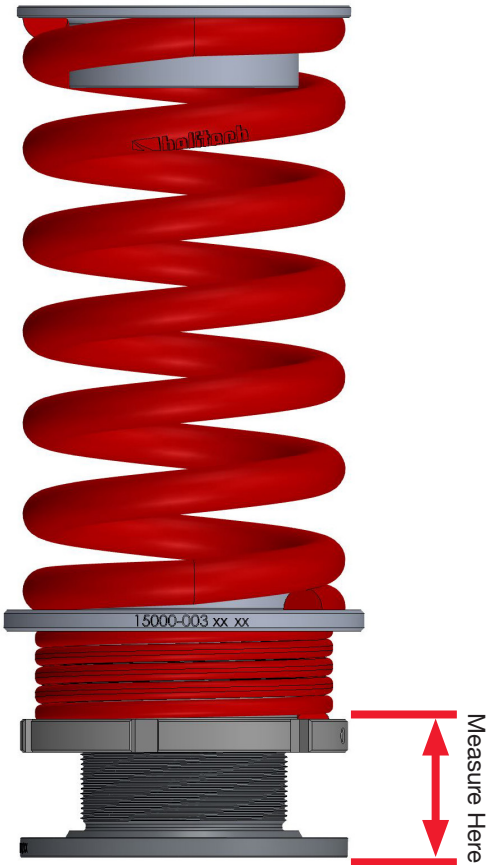
Technician note:
After installation a final shop alignment procedure is recommended to minimize tire wear.

- 36. Use the provided spanner wrench to turn the bottom spring perch to obtain desired spring perch height. Measure from the top of the perch to the center of the lower mount bushing. Find the appropriate spring perch height by referencing the table below. We do not recommend adjusting outside of the specified height range as the performance of the shock may decrease greatly.



Technician note:
Your vehicle's exact ride heights may vary due to differences in chassis and trim levels. The perch heights depicted on our tables are a suggested starting point.
It is recommended to preset a higher "A" measurement and adjust down, clockwise, to the desired vehicle height once the spring is installed.
Belltech does not recommend lowering beyond what is advertised in the table below as the performance of the shock may be greatly decreased.
Belltech uses packers to maintain the correct bump stop engagement at various height ranges. Using the appropriate packer will prevent excessive body roll. If a packer is needed, according to the table below, please place the packer on the rear shock, on top of the vent disc, channel side down.

2022-2024 Maverick		
Drop (Inches)	15mm Packer	Spring Perch Height "A" Measurement
3"	1	49mm
4"	0	32mm
5"	0	18mm



- 37. Tighten the set screw. Do not over tighten the set screw. Max torque is 1-2 Nm (1.5 ft lbs.)

BELLTECH REAR SUSPENSION INSTALLATION

38. Attach the original upper shock top mount to the new Belltech shock with the supplied nut, torque to 41 ft lbs. Attach the shock assembly to the vehicle body in the original position, torque to 81 ft lbs.



39. Install the supplied set screw part #110318, included in hardware kit #352080-777, into the bottom of the lower threaded adjuster. Once installed, the set screw will protrude from the adjuster, allowing it to properly locate and seat into the hole in the lower control arm.

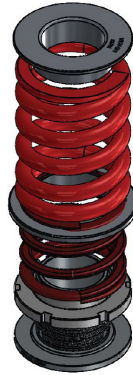


40. Place the supplied rubber base and Belltech height adjuster on the lower control arm. In the position of the original lower spring isolator.



BELLTECH REAR SUSPENSION INSTALLATION CONTINUED

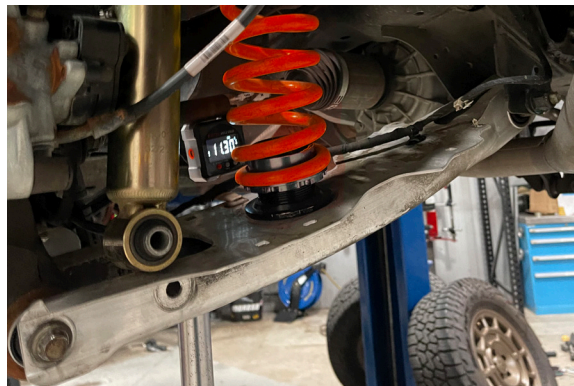
41. Place the smaller helper spring followed by the intermediate ring, the main spring, and the Belltech upper spring seat on the height adjuster.



42. Lift the lower control arm with the jack and fasten the control arm to the knuckle using the original nut and bolt. Ensure the new upper spring seat is positioned in the original isolator position. Torque the nut and bolt to 81 ft lbs. + 120° turn.



43. Attach the lower shock mount to the control arm using the original bolt. Torque to 81 ft lbs.



44. Place the wheel speed sensor harness clips in their original position on the lower control arm.

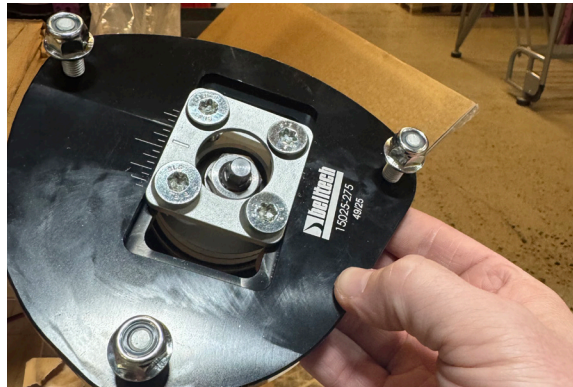
BELLTECH ALIGNMENT NOTES



Technician note:

After the installation allow the suspension to settle to its new ride height before making adjustments. Take the vehicle to an alignment shop, place the vehicle on the alignment rack and measure the current camber. Compare it with the vehicle manufacturer's specifications or the desired alignment settings.

45. Loosen the four fasteners securing the adjustable top-mount plate. Do not loosen or remove the center shock shaft nut.



46. Slide the adjustable top mount within the slotted top plate opening to achieve the desired camber setting. Use the alignment scale on the top plate as a reference when positioning the mount.
47. Adjust the top mount in small increments while monitoring the alignment readings until the desired camber is achieved.
48. Once the desired alignment is obtained, tighten the four top-mount fasteners securely to 26 ft lbs.



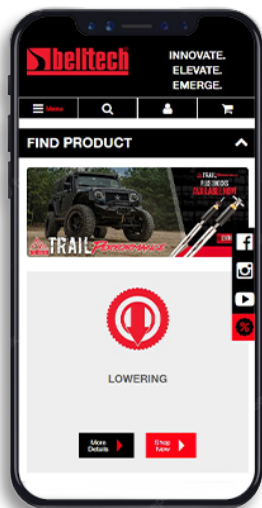
49. Recheck the camber after tightening to verify that the adjustment did not change.
50. Repeat the adjustment on the opposite side to achieve the desired alignment specifications and maintain a balanced setup.
51. After all alignment adjustments are complete, verify that all four top-mount fasteners are properly tightened before removing the vehicle from the alignment rack.

FINALIZING THE INSTALLATION

52. Mount the wheels and tighten the lug nuts.
53. Lift the vehicle and remove the support stands.
54. Carefully lower the vehicle onto the flat ground.
55. Torque the lug nuts to 150 ft lbs.
56. Check that all components and fasteners have been properly installed and torqued.
57. Read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

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



belltechsuspension



Belltech Suspension



@belltechsuspension



@belltechsuspension

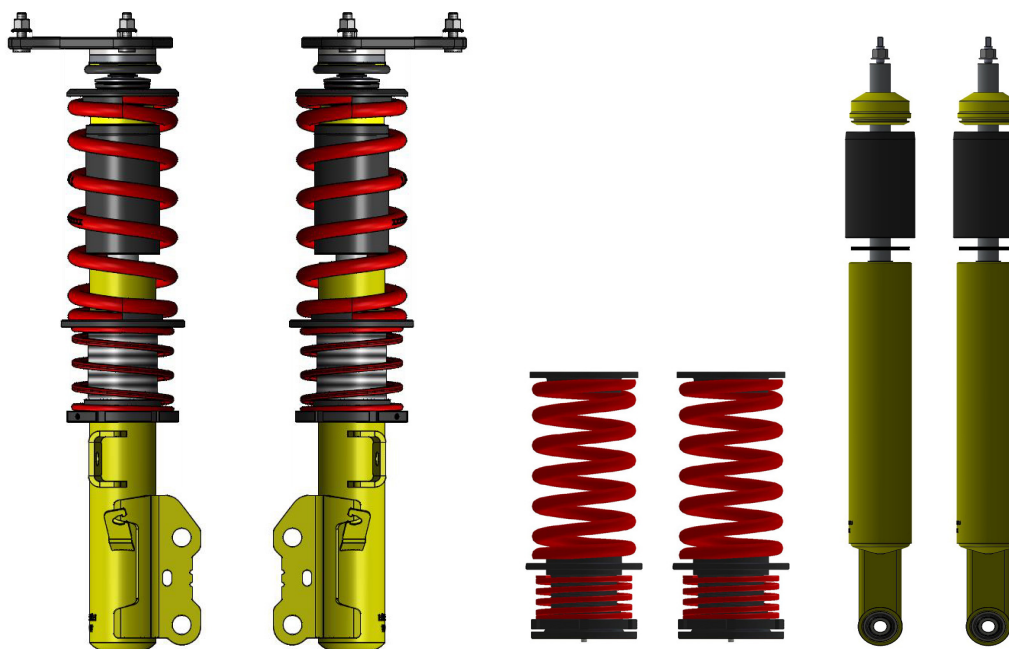
If you have any questions, concerns, or warranty related issues regarding your Belltech product, please call or email our experienced customer service specialists.

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KIT CONTENTS



15025		
Part number	Description	Qty
15025-100L	BELLTECH COILOVER (LH)	1
15025-100R	BELLTECH COILOVER (RH)	1
68510039	SPANNER WRENCH	1
15025-777	HARDWARE KIT	1

15025-777		
Part number	Description	Qty
152650-125	ADJUSTABLE END LINK	2

4934-04-777		
Part number	Description	Qty
4934-001	15 MM FRONT PACKER	4

4935-02-777		
Part number	Description	Qty
4935-001	15 MM REAR PACKER	4

352080-400		
Part number	Description	Qty
15025-203-961	UPPER SPRING SEAT	2
6270-100-961	ADJUSTABLE SPRING SEAT	2
65050018	THREADED SPRING PERCH	2
15000-003	INTERMEDIATE RING	2
70080-200-993	MAIN SPRING	2
60140122	HELPER SPRING	2
68320103	SET SCREW M5X12	2
18001-100	BELLTECH SHOCK	2
352080-777	HARDWARE KIT	1

352080-777		
Part number	Description	Qty
65210146	RUBBER BASE	2
110300	M14 X 2 - 35 MM BOLT	2
9999-001	RED THREADLOCKER	1



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