Strut Assembly Instructions

Vehicle Application: MonoMax 1000 Series Adjustable Height Struts

Thank you for purchase of our MonoMax 1000 Series Products.
This manual describes how to set up the product to achieve various ride heights.
Read this manual thoroughly before installation.

Important Safety Instructions for Installation and Handling

The following signs indicate specific instructions that you should observe for safely installing and handling the product:



Failure to follow these instructions could result in serious personal injury or death.



Failure to follow these instructions could result in moderate or slight personal injury or property damage.



Methods and procedures are provided for efficiently installing and handling the product.

Requests Upon Receipt of the Product



Check the condition of the product and that all parts are present.
If you find that the product is defective or faulty upon receipt, or if you have received the wrong product, please contact the store from which you originally purchased the product within one week. If more than a week has passed, your product is outside the scope of our warranty against initial failure.

Before Installing the Product



Please read these instructions thoroughly before installing the product.
Do not attempt any procedure on the products that is not specifically described in this manual
Do not attempt to use any part made by other companies, use or modify the part, or install the product on any vehicle other than the supported one.
KYB holds no responsibility for any damage, accident, or casualty caused by failing to observe the instructions described in this manual.



Carry out a vehicle safety check before installing the product.
Do not work on the vehicle while the engine is running, while the vehicle is on uneven ground, or in places exposed to chemical products or fire.
Avoid working on the vehicle immediately after it has come to a stop and wait for the engine, muffler and braking system to cool down sufficiently before installing the product.
Make sure to use an automotive lift to raise the vehicle to safely access the underside.
Do not attempt to use an automotive jack for this job as it is dangerous for you and the vehicle.

Safe Installation Recommendations



For best results, follow the instructions described in your vehicle's repair manual to remove and install original parts.

Do not remove any part other than the ones specified in the installation instructions.

Caution **Handle the Product with Care**

Avoid any strong impacts and do not drop the product before or during installation. It may damage the product, making installation difficult.

Caution **Perform the repair work wearing the appropriate safety gear.**

Perform all tasks wearing protective clothing, safety goggles or glasses, and a pair of work gloves.

Installation Tips and Recommendations

Advice It is possible that you may not be able to compress the shock or bare strut with your hands. The valving is designed to work with the weight of the vehicle and won't engage with such light force.

Some KYB shocks will have different appearing bushings than the original equipment. These bushings have been designed specifically by KYB to perform as well or better than the original design.

Do not use an air ratchet or impact on mounts as you could overtighten the mounts or damage the threads.

On some applications it is necessary to raise the axle or suspension slightly to attach the shock mountings which is also common on many OE components.

Caution **Never grip the shock or strut shaft with any kind of tool, especially pliers or vise grips.** This can damage the shaft and cause the seal to leak prematurely. Even microscopic imperfections will cause the seal to fail.

Improper tightening of nuts and bolts during installation can cause noise, and most likely necessitate re-doing the installation properly.

Always use the new hardware provided with the unit. There are specific types of nuts and bolts designed to work best with each vehicle. Sometimes there are flange bolts, nylon lock nuts, jam nuts, crimp nuts or something different.

Always use the proper tools

Required Tools

Ratchet and socket set
Torque wrench
Strut/shock shaft tool
Spring compressor







Refer to the repair manual for additional tips for installation that could be unique to your vehicle

Measure Ride Height Before Installation



Advice

To ensure you achieve the desired ride height installation, it is extremely important to measure the initial ride height. Park the vehicle on a hard level surface. Measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle, or from the lower edge of the wheel up to the center of the fender opening above the axle. Record this information below for future reference. You will perform this same operation after installation.

BEFORE	BEFORE
Driver Side Front: _____	Passenger Side Front:_____
Driver Side Rear:_____	Passenger Side Rear:_____

Advice

Assembly of Strut

The MonoMax 1000 Series comes with two (2) different sized height adjustment sleeves to achieve your preferred lift. Height adjustment sleeve lengths vary per application. Lift height achieved with height adjustment sleeves will vary per vehicle application as well.



DO NOT INSERT MORE THAN TWO (2) HEIGHT ADJUSTMENT SLEEVES PER STRUT. DO NOT USE ANY OTHER MATERIAL AS SLEEVES OTHER THAN THE SUPPLIED KYB HEIGHT ADJUSTMENT SLEEVES INCLUDED IN THE PACKAGE. THIS WILL CAUSE DAMAGE TO THE STRUT, MAKE YOUR VEHICLE UNSAFE TO DRIVE AND VOID YOUR LIMITED WARRANTY.

1. For the highest possible ride height, place both height adjustment sleeves over the strut body.

1



2. Fit the spring seat onto the strut.

2



Assembly of Strut

3. Utilizing a spring compressor, compress your spring (not included) enough to be able to insert the strut into the spring center while having room to install the upper strut mount and spring retainer.

3



4. Install the upper strut mount using a proper sized wrench or strut/shock shaft tool to keep the strut shaft from moving. **Never grip the strut shaft with any kind of tool, especially pliers or vise grips.** This can damage the shaft and cause the seal to leak prematurely. Even microscopic imperfections will cause the seal to fail.

4



5. Be sure all spring seats, height adjustment sleeves and strut mounts are properly aligned. Install the new top nut and torque to the vehicle manufacturers recommended torque settings.

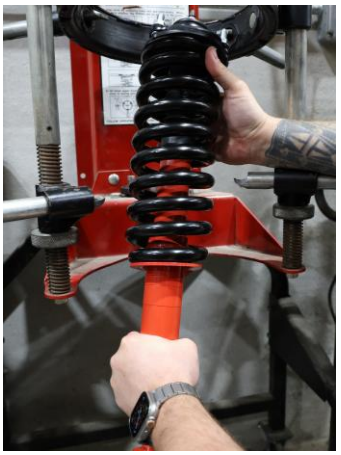
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Assembly of Strut

6. Carefully decompress the spring compressor so that the spring sits securely on the lower spring retainer.

6



Your KYB MonoMax 1000 Series strut is now ready to install on your vehicle.



For instructions on how to install your new strut onto a vehicle, scan here:

Refer to the repair manual for additional tips for installation that could be unique to your vehicle

After installation, check the ride height of both sides of your vehicle. If you prefer a lower ride height, reverse the upper process and remove one or more of the height adjustment sleeves. Repeat the assembly and installation processes until you achieve the desired ride height.

Measure Ride Height After Installation

Important Notes:

If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local dealer or an authorized dealer for details.

After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

Park the vehicle on a level concrete or asphalt surface. Using a measuring tape, re-measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle, or from the lower edge of the wheel up to the center of the fender opening above the axle. Be sure that the left and right ride height measurements match. If they do not, remove the struts and adjust the threaded lower spring seats to achieve the proper matching heights. Reinstall the struts as instructed and follow the ride height measurement process again. Record this information below for future reference.

AFTER	AFTER
Driver Side Front: _____	Passenger Side Front:_____
Driver Side Rear:_____	Passenger Side Rear:_____

Advice

IT IS HIGHLY RECOMMENDED TO HAVE A 4 WHEEL ALIGNMENT SERVICE PERFORMED AFTER SHOCK AND STRUT REPLACEMENT



Thank you for purchasing these KYB Products.
Please visit KYB.com for additional information.