BUILD A TRUE DUAL-PURPOSE RIG IN 6 EASY STEPS!



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SULASTIC RUBBER SPRINGS

IT'S THE EVENT TO CHECK OUT!

COVER QUEST:
YOU KNOW YOU WANT IT!



TEXT AND PHOTOS: JOE BURNSIDE

BE KIND TO YOUR KIDNEYS

SULASTIC RUBBER SPRING INSTALLATION



OWNERS OF %. AND 1-TON TRUCKS KNOW FIRSTHAND HOW HARSH the ridie can be in their unbased trucks. Heck, even with a considerable tool in the bed, the note is still not executely business. Solistic Rubber Springs to the rescuel The rubber springs from Solistic Rubber Springs to the rescuel The rubber springs from Solistic are an elastic soperation that reduces faind in many cases completely removes) the vitration and shock caused by the leaf spring suppension. Improving steely and event librarily and springs present of existing of the spring spring are designed for the specific spring rate, damping, and spring speed of each naske and model of truck in order to improve ride quality. Substitic

and the ride height will remain within ¼ inch of stock height.

At the center of the rubber spring is the main axle, which is vul
canized to the proprietary Sulastic rubber compound and house
the proprietary Sulastic rubber compound and house

considerably more flexible than aluminum and less brittle than traditional cast-iron, making it a logical choice for an automotive application such as this. The rubber is then twisted appropriately to obtain the correct dynamic characteristics for each specific truck model. The final assembly step is to weld the hot rolled steel plate brackets and stop member to the main ade.

To test the claims of a smoother ride, we installed Solastic rubber goings are not Soubjez 2500 quad claim bern 45 and an O'r Oswinste. 2500HD Crew Cab Ard. This combination was chosen because of the differences between the two trucks. The Dodge has a solid front adel, a mild 2-inch lift, and a 6-foot bed, whereas the Chery has an indipendent front supersion, a 6-ind supersion lift, and a 8-foot bed. Sather than only providing a seat of the parts estimated we intromented the truck with three trivial accelerances to measure both measurements.

"OWNERS OF %- AND 1-TON TRUCKS KNOW FIRSTHAND HOW HARSH THE RIDE can be in their unloaded trucks. Heck, even with a considerable load in the bed. The ride is still not exactly luxurious."

TRUCK NUMBER TWO. 197 Chervolet 250000 Crew Cab 4ct with a 6 mich suspension Int.



Installation on the Dodge was straightforward. After securing the axle and the frame of the truck, the shackle bolts were removed.



The leaf spring was pulled down to remove the lower bolt, which attaches the leal spring to the rear shackle mount.

the baseline and poot installation ride performance. The accelerometers were mounted on the frame above the roar shackle, in the front of the bed fremest the tailgatel) and inside the calo on the center console. The test road consisted of light to extreme burns to replicate highway opparation pints; ratinead rossings, and prothest—each pass was made at 80 mph in both directions. The improvement in the ride quality was immediately noticed after the Sulsatic rubber springs were installed. In fact, the rear leaf spring suspension augmented with the Sulsatic rubber shackle of

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the Chevy now seems to be smoother than the independent front suspension.

The Substit rubber shackles made a positive difference in the overall ride performance of both trucks. The ride quality is reasonably improved, as evidenced empirically by the graphs and theoretical seat-of-the pants dyno testimony. The installation of the Substit rubber springs wort turn your? for "1-to ruck into a high-end pluth luxury automobile, but your friends and kidneys will thank you for installing them. 1828.



Here is a side-by-side comparison of the Sulastic rubber springs (inside) next to the OEM stock shackle hangers.



To install the Sulastic rubber springs, simply reverse the removal order of the stock shackle hangers. Washer shims are provided to ensure a proper fit of the shackle to the leaf spring and frame of the truck.

BE KIND TO YOUR KIDNEYS



The final step is to ensure the shackle holts are tightened to the correct torque



Installation on the Chevy required the same basic steps as the Dodge, except the receiver hitch was removed so that we could remove the lower shackle bolt.



In order to remove the bolt from the leaf spring and OEM shackle, the pinch weld joining the bed panels was cut (see arrow) and folded to allow clearance for removal of the bolt and OEM shackle.



These are the Sulastic rubber springs next to the stock shackle hangers. Notice how different the Sulastic parts are compared to the ones used on the Dodge. Sulastic takes the time to design specific rubber springs for each vehicle make and model.



Similar to the Dodge installation procedure, we installed the Sulastic parts on the Chevy in the reverse order of the removal of the OEM shackles.



The final steps are reinstalling the receiver hitch and checking all bolts for prope torque per manufacturer recommendations.



iron cylinder. Then the steel plate brackets and stop member are welded to the main axle.

CÉRTIFIABLE PROOF

THE FOLLOWING DATA GRAPHS ARE PROVIDED AS



This Chevy has a cable harness running from the control station inside the cab to the triaxial accelerometers.

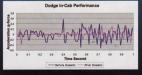


The accelerometer control station was used to gather ride performance data

DODGE FRAME

Dodge Frame Performance 040

DODGE CAB



CHEVY FRAME

Performance in the Chey was improved, too. The rubber springs absorbed more of the road vibration, as evidenced by the stable constant trend of the magenta trace when compared to the irregular blue trace, which represents the vibrations not absorbed by the rigid OEM shackles.

