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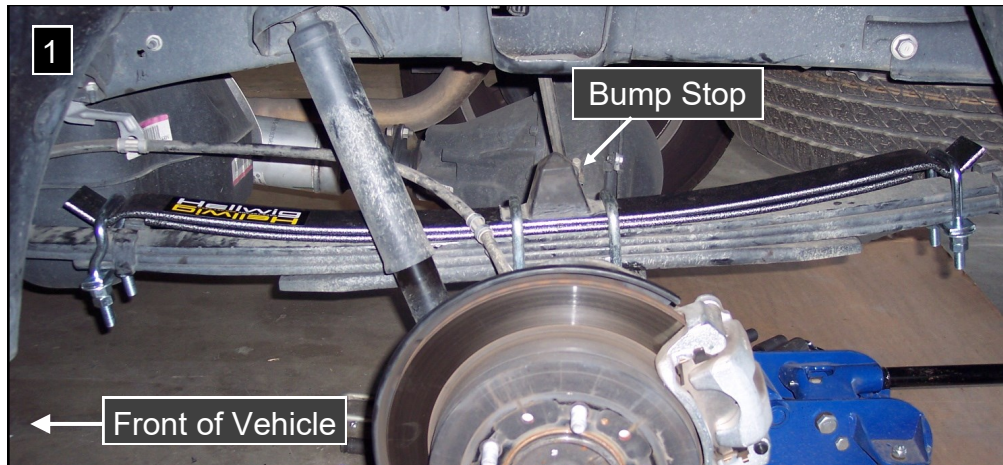
TechSupport@HellwigProducts.com

INSTALLATION INSTRUCTIONS

Toyota Tundra Helper Springs

Thank you for purchasing a quality Hellwig Product.

PLEASE READ THIS INSTRUCTION SHEET COMPLETELY BEFORE STARTING YOUR INSTALLATION.



SAFETY: BEFORE STARTING YOUR INSTALLATION, PARK YOUR VEHICLE ON A FLAT LEVEL SURFACE, SET THE PARKING BRAKE, AND CHOCK THE FRONT TIRES.

IMPORTANT NOTES:

1. YOUR SPRING MAY HAVE A SMALL HOLE IN THE END. THIS IS FOR OUR MANUFACTURING PROCESS AND WILL NOT BE USED.
2. HELLWIG HELPER SPRINGS ARE DESIGNED TO INCREASE THE "LEVEL LOAD" CARRYING CAPACITY OF YOUR VEHICLE. NEVER LOAD THE VEHICLE THAT THIS UNIT IS INSTALLED ON BEYOND THE MANUFACTURER'S MAXIMUM GROSS VEHICLE WEIGHT RATING.
3. IF YOUR VEHICLE HAS LIFT BLOCKS, MAKE SURE THERE IS AT LEAST 3/4" OF EXTRA THREADS BELOW THE NUTS ON THE AXLE U-BOLTS. IF THERE ISN'T YOU WILL NEED TO PURCHASE LONGER U-BOLTS.

STEPS:

1. Lay out the spring leaves into two (2) sets. Each will consist of a main leaf with U-bolt cups and a second leaf without cups. Lay the leaves so that the long ends are all in the same direction. Stack the leaves so that the main leaf is on top.
2. Remove the U-bolts holding the axle to the factory spring pack on one side with the tires still on the ground. Keep the bump stop to be reinstalled. Only do one side of the vehicle at a time.
3. Lift the vehicle by the frame, allowing the wheels to stay on the ground and the springs to separate from the axle. It may be necessary to remove the rear wheel & shock to let the axle drop enough to remove the center bolt. Make sure to use adequate jack stands on the axle and frame when working on the vehicle.
4. Clamp the factory leaves together using a C-Clamp to keep them from shifting; then remove the center bolt from the factory leaf pack.
5. Insert supplied longer center bolt using tape to temporarily hold in place. Carefully remove clamp from springs
6. Place the spring stack on top of the factory springs with the long end toward the front. The center bolt goes through the center holes in the spring stack. As shown in photo 2. Remove tape from center bolt and tighten with nut. Torque to spec. Excess length can be cut off if necessary.



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7. Lower the vehicle and spring back onto the axle, making sure the center bolt head goes into the hole on the spring perch.
8. Use the 9/16 x 8" U-bolts and hardware to reattach the axle to the springs. Make sure to replace the factory bump stop. Torque to 130 ft-lbs.
9. Repeat steps 2-8 for the other side of the vehicle.
10. Use the 9/16 x 8" U-bolts and hardware to reattach the axle to the springs. Make sure to replace the factory bump stop. Torque to 130 ft-lbs.
11. Place the 1/2" x 4" U-bolts in the cups at the rear ends of the spring as shown in photo 3. Loosely install the crossbars using the provided hardware.
12. Place the black sleeves over the legs of the 1/2" x 3 3/4" U-bolt and place it sideways in the cup at the end of the front of the driver side spring as shown in photo 4. It will be necessary to lift the vehicle by the frame or compress the leaf with a clamp. Install the crossbar using provided lock nuts. Torque to spec.
13. Place the 9/16" x 6" offset U-bolt in the cup at the end of the front of the passenger side spring with the offset to the front as shown in photo 5. Loosely install the crossbars using the provided hardware.
14. Adjust the U-bolts at the end to desired preload. The minimum tension adjustment is having enough tension on the end U-bolts so that they do not loosen or rattle and move when the vehicle is driven over rough or bumpy surfaces. Maximum adjustment is when the leaf cups are 1/2" away from factory springs. We recommend adjusting the front passenger side to match front driver side unless load will be unbalanced to one side.
15. When adjustment is complete, double nut to lock in adjustment.
16. Check your installation for clearance on all undercarriage components; wires, fuel, brake, and air conditioning lines. Test drive the vehicle and recheck your installation, adjust as needed. Recheck on a periodic basis thereafter.

TORQUE TABLE:

3/8" = 20-30 ft. lbs. – 7/16" = 35-45 ft. lbs.
1/2" = 50-70 ft. lbs. – 9/16" = 70-90 ft. lbs.

ATTENTION INSTALLER: BE SURE THAT THE CUSTOMER RECEIVES THIS INSTRUCTION SHEET, ALL IMPORTANT NOTE CARDS AND THE WARRANTY FORM

MAINTENANCE AND INSPECTION:

Your Hellwig Suspension Product is built to last. However, as with all vehicle systems, it requires routine inspection. Inspect your Hellwig installation looking for secure hardware and tight fitting brackets. If you do not perform this inspection, have your professional mechanic inspect as described.

THANKYOU FOR PURCHASING A QUALITY HELLWIG PRODUCT

Hellwig Products Company, located in Visalia, California was founded in 1946 with solutions for load and sway control. The family operated company produces components for trucks, RVs, muscle cars, fleets and military vehicles. Hellwig is ISO9001 certified and is proud to develop, test and manufacture products in the USA.

