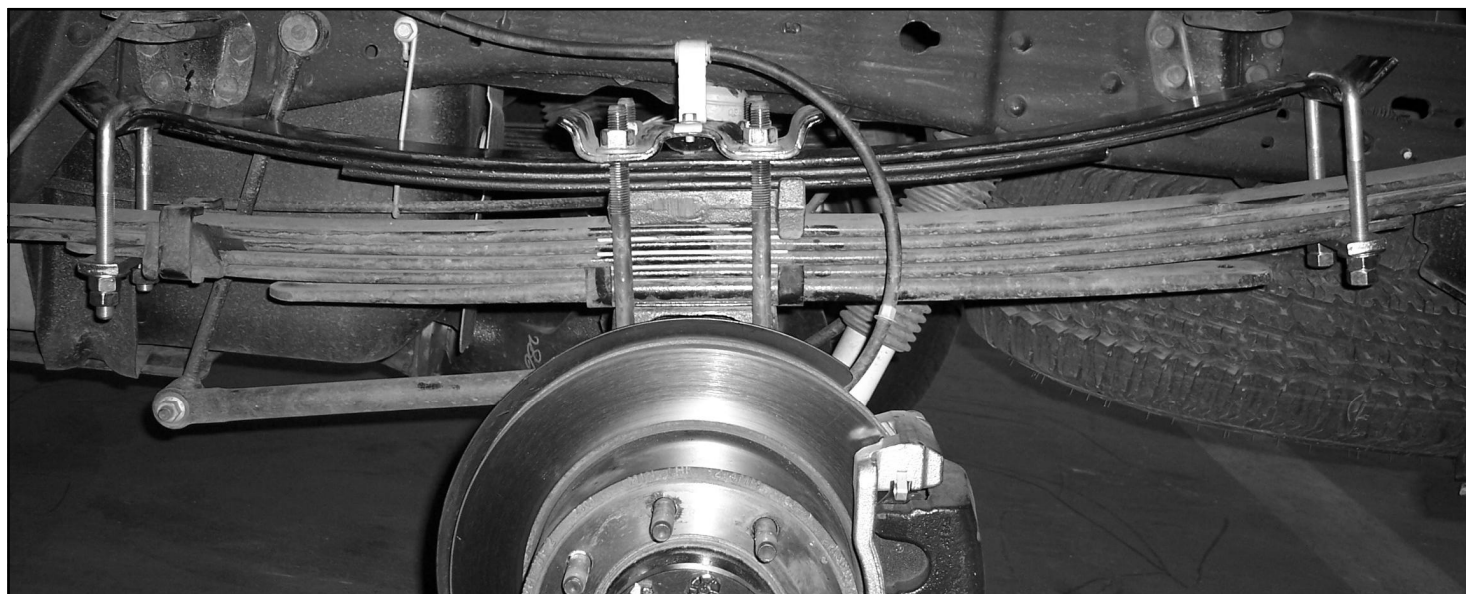


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559-734-7451 800-367-5480 FAX 559-734-7460

INSTALLATION INSTRUCTIONS 2514 Helper Spring Kit



Wheel removed for clarity. Wheel does not need to be removed to install helper springs.

TORQUE TABLE

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

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

NOTE: THIS KIT INCLUDES LOCKNUTS WHICH REQUIRE TIGHTENING WITH A WRENCH AFTER BEING STARTED BY HAND.

IMPORTANT NOTE: IF YOUR VEHICLE IS EQUIPED WITH A FACTORY CONTACT OVER LOAD IT MUST BE REMOVED

1. Raise the rear of the vehicle by the frame so that the rear tires are just slightly contacting the floor. Be sure to block the front tires and use Jack Stands to support the vehicle by the frame.
2. Remove emergency cable bracket and save bolt for installation later.
3. Remove axle U-bolts and retainer. **Make sure that axle is secure before removing axle u-bolts.**
4. Remove nut from spring center bolt and remove factory installed contact overload spring.
5. Lay out the spring leaves into two (2) sets. Each will consist of a long, medium and a short leaf. The hole in the middle of the leaves is punched (1") off center. Lay the leaves so that the long ends are all in the same direction.
5. Stack the leaves so that the short leaf is on the bottom and the long leaf is on the top.
6. Place the assembled spring on top of the spacer casting and main spring center bolt. Align spring and tighten center bolt nut to correct torque specification.
7. Place u-bolt retainer on top of spring assembly and re-install axle u-bolts. Torque axle u-bolts to specification.
8. Place the long U-bolts on the ends of the Helper Springs and install the crossbars with the washers and double nuts. **Leave loose at this time.** A C-clamp may be needed to compress the helper spring ends to attach the crossbars and start the threads of the nuts.

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9. Lower the vehicle to the ground and tighten the end U-bolts to attain the desired height and tension. Double nut the U-bolt or loosening will result. Tightening the end U-bolts will increase and loosening will relieve tension. **Be sure to double nut after each adjustment.** Be sure to check for clearance above the Helper Spring to the body, fuel filler hose etc..
10. 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. The maximum is having the end U-bolts tightened so that the ends of the Helper Springs are no closer than (1/4") above the vehicle springs.
11. Check your installation for clearance on all undercarriage components; wires, fuel and brake lines. Test drive the vehicle and recheck your installation, adjust as needed. Recheck on a monthly regular basis thereafter.

IMPORTANT NOTES, WARNINGS AND TIPS

READ THIS INSTRUCTION SHEET COMPLETELY BEFORE STARTING YOUR INSTALLTION

IMPORTANT NOTE: CHECK YOUR INSTALLATION. ARE ALL NUTS AND BOLTS SECURELY TIGHTENED AND DOUBLE NUTTED WHERE PROVIDED? BOUNCE THE VEHICLE CHECKING FOR CLEARANCE ON ALL UNDERCARRAIGE COMPONENTS, MUFFLERS, GAS FILLER PIPES, BRAKE LINES, EMERGENCY BRAKE CABLE, AIR CONDITIONING LINES, RUBBER BOTTOMING PADS, ETC.

Before attempting the installation of any Hellwig Accessory Spring , be sure and identify the vehicle to which the accessory spring will be installed as either being or not being equipped with height sensing brake fluid proportioning valve. If a vehicle is equipped with the brake fluid proportioning valve on the rear axle, it is recommended that any Hellwig Full Time Accessory Spring **NOT** be installed. Only the Progressive Rate Accessory Springs are to be installed on these vehicles. Some of the vehicles manufacturers (FORD, GM, DODGE) have recommended an adjustment or modification of the brake system. If the vehicles height or weight requirements have been changed due to the suspension modifications or unusual load situations, contact your local dealer for correct adjustment after installation.

If you have any questions about the application, please contact Hellwig Products Company inc.

IMPORTANT NOTE: 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.

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