belltech SPORT TRUCKS

INSTALLATION INSTRUCTIONS

1075 North Ave. Sanger, CA 93657-3539 local: 559-875-0222 fax: 559-876-2259 toll free: 800-445-3767

4985
DRIVE LINE SPACER
INSTALLATION INSTRUCTIONS

Congratulations! You were selective enough to choose a BELLTECH PRODUCT. We have spent many hours developing our line of products so that you will receive maximum performance with minimum difficulty during installation.

Note: Confirm that all of the hardware listed in the parts list is in the kit. **Do not** begin installation if any part is missing. Read the instructions thoroughly before beginning this installation.

Warning: **DO NOT** work under a vehicle supported by only a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Warning: **DO NOT** drive vehicle until all work has been completed and checked. Torque all hardware to values specified.

Reminder: Proper use of safety equipment and eye/face/hand protection is absolutely necessary when using these tools to perform procedures!

Note: It is very helpful to have an assistant available during installation.

RECOMMENDED TOOLS:

- Properly rated floor jack, support stands, and wheel chocks
- Combination wrench set
- Torque wrench: *0-75 lb ft. range*
- Ratcheting socket wrench and sockets sets
- Pry Bar
- Safety Glasses

KIT INSTALLATION

1. Open the hardware kit and remove all of the contents. Refer to the part list (Page 3) to verify that all parts are present.

2. Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the FRONT wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1st gear (manual) or "Park" (automatic).

3. Using a properly rated floor jack, lift the rear wheels of the vehicle off the ground. Place support stands, rated for the vehicle's weight, and in the factory specified locations. Refer to the vehicle Owner's Manual. Prior to lowering the vehicle onto the stands, make sure the supports will securely contact the chassis.

4. ! It is very important that the vehicle is properly supported during this installation to prevent personal injury and chassis damage! Make sure that the support stands are properly placed prior to performing the following procedures. We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

5. Slowly lower the vehicle onto the stands and, before placing the vehicle's entire weight on them, again check that they properly and securely contact the chassis as described above. Check for possible interference with any lines, wires, cables, or other easily damaged components. This kit is designed to

work in conjunction with the Belltech flip kits and is intended to reduce universal joint working angles that may occur as a result of the installation of a flip kit. During the installation of this kit, there will be instances where the kit does not supply all the hardware that will be removed and re-installed during the kit installation. We leave the responsibility for replacement of worn or damaged non-supplied hardware to the installation personnel.

6. Install the transmission spacers by removing the two 10mm bolts that secure the transmission housing to the transmission rubber mount (Photo 1). Also to be removed is the transmission mount nut that secures the transmission mount to the vehicle cross member (Photo 2).

7. With a lifting device rated for this load, elevate the rear of the transmission to allow removal of the transmission mount (Photo 3). **CAUTION**: **Do not** elevate the rear of the transmission beyond the point necessary to remove the transmission mount as transmission components may be damaged.

8. Install the kit supplied 60mm long bolts, with a washer under the bolt head, into the holes in the transmission mount. Install a washer over the shaft of each bolt, then the tubular spacer, and finally, the last washer (Photo 4).

9. Re-install the transmission mount with the spacers and bolts as an assembly. Start the bolts and nut into their respective threads before tightening any of the hardware. Lower the transmission back onto its mount and torque the transmission bolts to 47-52Ft-lbs. And the transmission mount nut to 35-40Ft-lbs. (Photo 5 & 6). **NOTE**: A thread-locking agent, such as Loctite, should be applied to the transmission bolts before installation.

10. Unbolt the drive shaft center carrier bearing from the vehicle cross member. Slide the drive shaft assembly to one side of the cross member. Using the kit-supplied template, mark off the appropriate area on the cab under the floor cross member just forward of and above the center carrier bearing cross member (Photo 7 & 8). Cut out the marked area using a Sawz-all, plasma cutter, or suitable tool (Photo 9). **CAUTION: Always wear eye protection when using power tools.**

11. Raise the center carrier bearing and install the kit supplied box tubing spacer. Secure these pieces in place using the kit supplied 7/16” hardware. Torque this hardware to 15-20Ft-lbs. (Photo10).

12. Raise the rear of the vehicle with a jack rated for this load. Place the jack stands rated for this load under the frame rails just forward of the rear leaf spring pack forward hangers. Remove the wheels and tires and unbolt the lower shock absorber mounts. **NOTE: In the interest of maintaining chassis to leaf spring pack integrity, we RECOMMEND that the following operations be performed on only one side of the vehicle at a time.**

13. Remove the leaf spring pack axle housing tube U-bolts. Raise the rear axle housing clear of the rear axle housing saddles and remove the saddle from the top of the leaf spring pack.

14. Clamp the leaf spring pack together using C-clamps or a suitable tool. Remove the leaf spring pack center bolt and replace it with the kit supplied pack center bolt (Photo 11). The kit-supplied bolt must be installed from the bottom of the leaf spring pack. Torque the kit supplied leaf spring pack center nut to 55-60Ft-lbs.

15. Locate the kit supplied tapered shim and the rear axle tube saddle over the leaf spring pack. The tapered shim cutout should be butted up against the leaf spring packs center bolts nut. Mark the center bolts nut where it extends through the rear axle tube saddle at a point 1/8” below a line extending side-to-side across the radii of the rear axle tube saddle (Photo 13). Cutting the bolt and nut off at this point will reduce the possibility of the leaf spring center bolt nut contacting the rear axle tube housing when the parts are re-assembled and torqued (Photo 14).

16. Re-assemble the rear axle tube saddle and slip over the leaf spring center bolt with the thicker portion of the shim facing toward the rear of the vehicle and the cutout in the shim butted against the spring center bolts nut. Lower the axle tub down into the saddle and install the spring plate, U-bolts, U-bolts nuts and washers. **Do not** tighten the U-bolts to final torque at this time.

17. Repeat Steps 8 thru 11 for the remaining side of the vehicle.

18. Torque the U-bolt nuts to 85-100Ft-lbs.

19. Re-install the lower shock eye hardware and torque the lug nuts to 85-90Ft-lbs.

20. Re-install the wheels and tires and torque the lug nuts to 75-80Ft-lbs.

21. Raise the rear of the vehicle to clear the jack stands, remove the jack stands and lower the vehicle to the ground. The installation is complete.

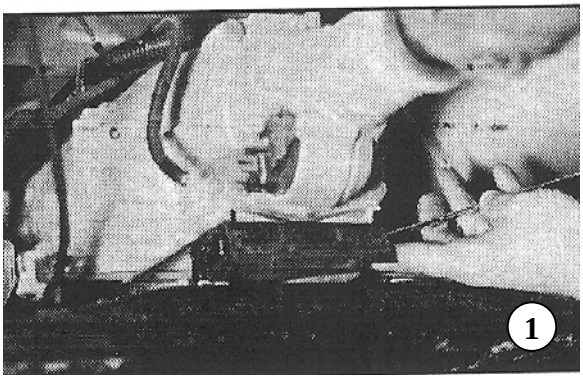
22. Lift vehicle and remove support stands. Carefully lower vehicle to ground.

23. Immediately test-drive the vehicle in a remote location so that you can become accustomed to the revised driving characteristics and handling. Be aware that the vehicle will handle substantially different now that it has been modified.

24. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.

PART LIST FOR 4985 DRIVE LINE SPACER

PART#	DESCRIPTION	QTY
6925-050	BEARING SPACER 2” X 2 3/8”	1
110252	SPRING CENTER BOLT 3/8 –24 X 5	2
110257	3/8-24 x 1-1/8” Coupling Nut	2
110655	7/16-20 x 3-1/2” NF GR8 CS ZP	2
110303	STOVER LOCK NUT 7/16-20	2
110625	FLAT WASHER 3/8”	6
6605-010	Trans Spacer .75” X .120” X 1.25”	2
4977-001	**4°** Pinion Shim 2.5” X 5.0”	2
110645	FLAT WASHER A325 7/16”	4
111052	HHCS 10MM –1.5 X 60MM	2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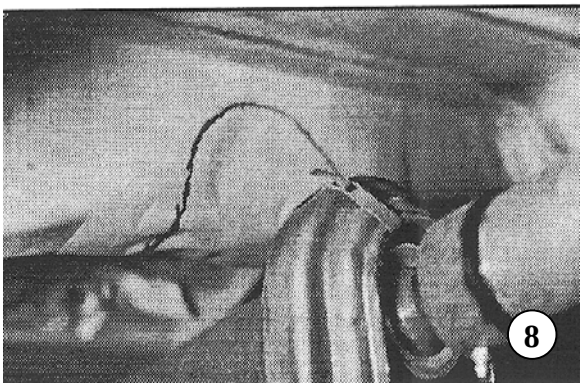
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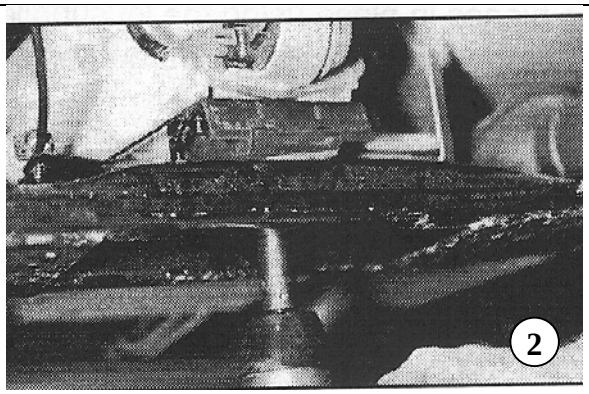
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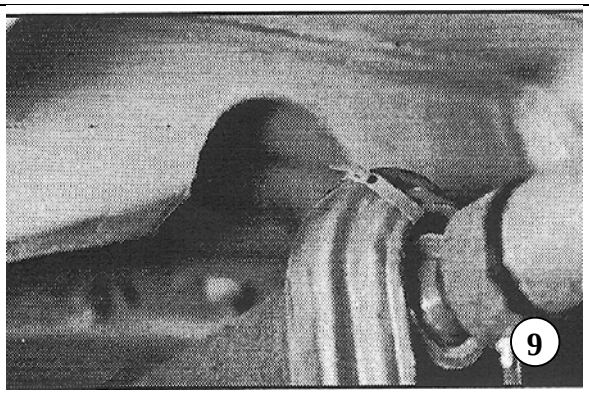
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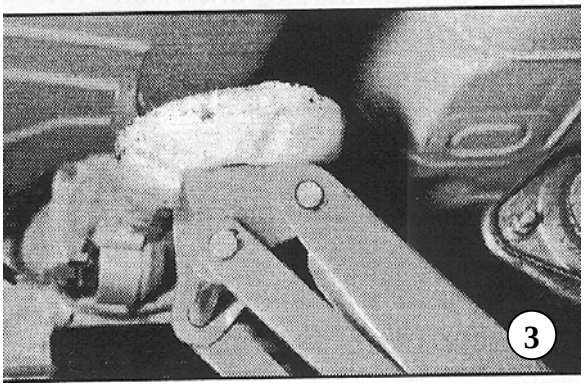
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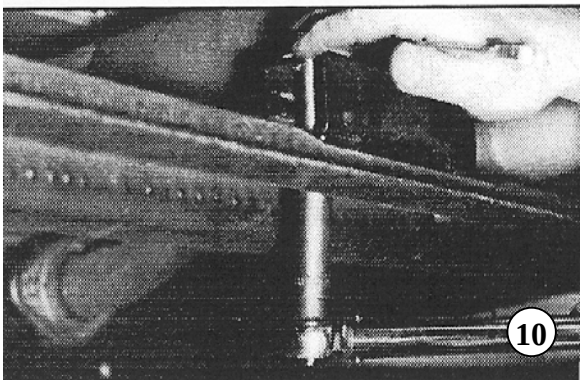
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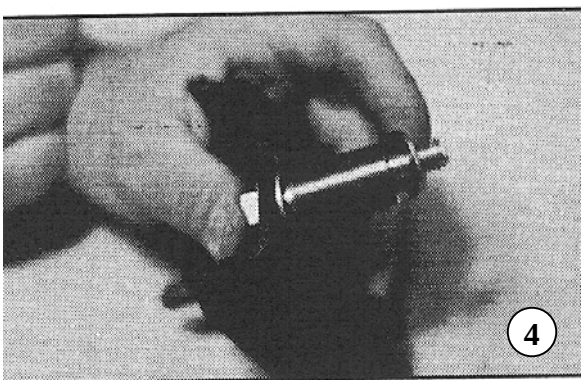
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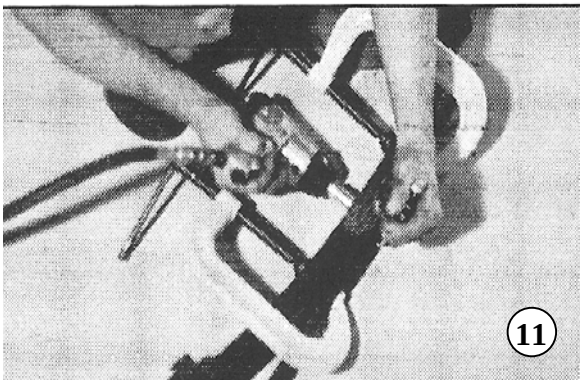
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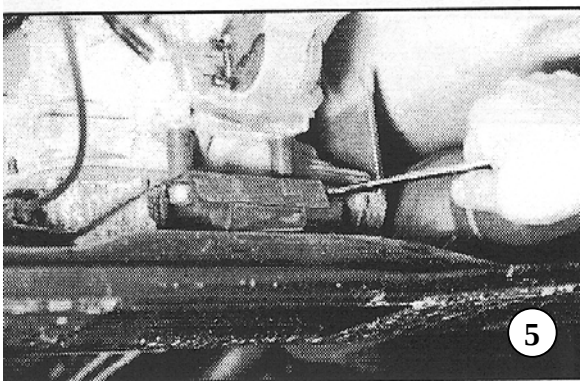
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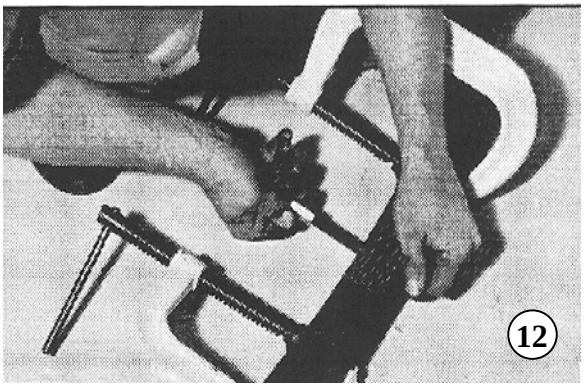
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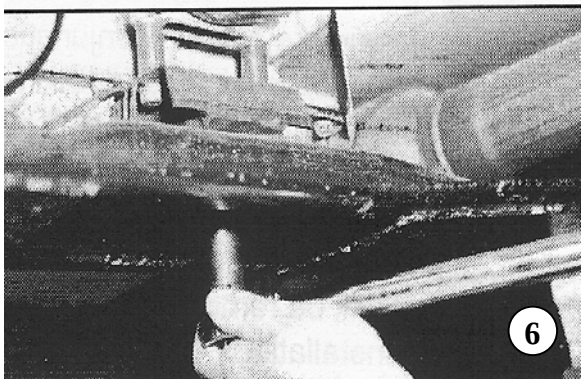
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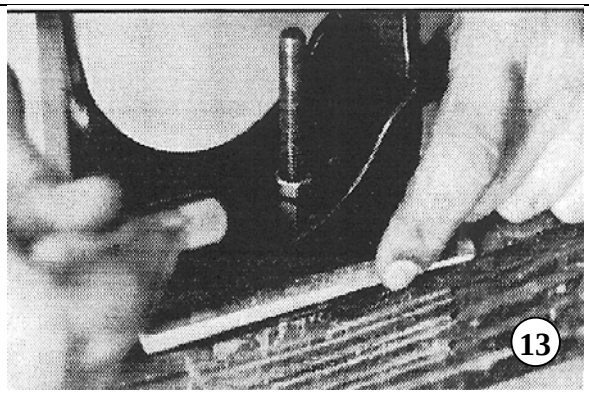
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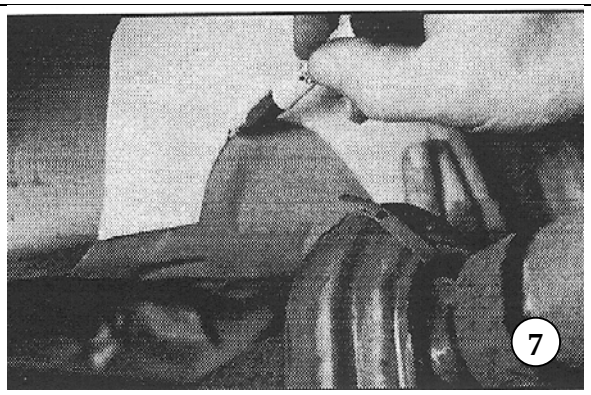
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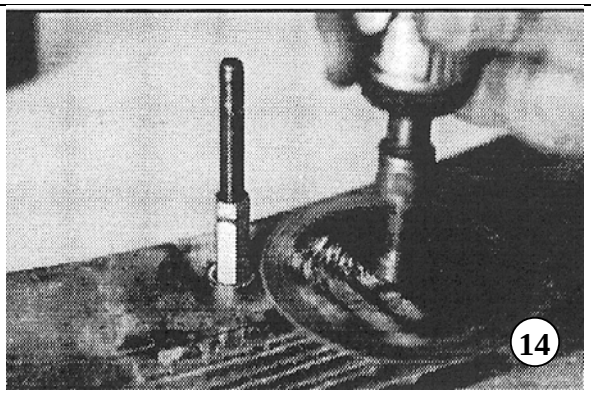
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