

White Brothers

B R A N D

WHITE BROTHERS SPRINGER FORK LOWERING KIT PART # 28-115 FOR HARLEY-DAVIDSON SPRINGER MODELS

WARNING

INSTALLING A LOWERING KIT WILL DECREASE INITIAL GROUND CLEARANCE. THE MOTORCYCLE WILL BE LOWER TO THE GROUND AND CARE SHOULD BE TAKEN TO AVOID BOTTOMING, ESPECIALLY OVER BUMPS OR IN TURNS. TO MAINTAIN PROPER BALANCED GEOMETRY, WE RECOMMEND LOWERING THE FRONT AND REAR OF THE MOTORCYCLE EQUALLY

WARNING

BEFORE WORKING ON THE MOTORCYCLE, MAKE CERTAIN THAT IT IS STABLE AND WON'T FALL OVER DURING INSTALLATION

CAUTION

White Bros. recommend that you use a shop manual, for reference, when installing this lowering kit.

CAUTION

Before installing this lowering you will need to make or obtain a Springer Fork Disassembly - Assembly tool. White Brothers offers this tool already made under part # 28-116. Instructions for making the tool are available in the Harley-Davidson Shop Manual.

DISASSEMBLY

1. Raise and support the motorcycle so the front wheel is off the ground.
2. Remove the front fender and front wheel assembly. Consult the proper Harley Davidson Shop Manual for this procedure.
3. Remove the headlight assembly and headlight mount. Carefully wrap the headlight with a

towel so it won't get scratched and let it hang away from the front of the motorcycle.

4. Remove the shock absorber.

NOTE

There is no spring pre-load on the shock.

5. Install the White Brothers Springer Tool (WB part # 28-116) by inserting the threaded rod up through the hole in the top shock mount as illustrated. Using the stock shock mounting bolt, secure the BLOCK in the bottom shock mount and tighten the bolt/nut. Put a light coating of grease on the threaded rod and then tighten the coupler nut until any free-play is removed from the tool. (Fig. 1)

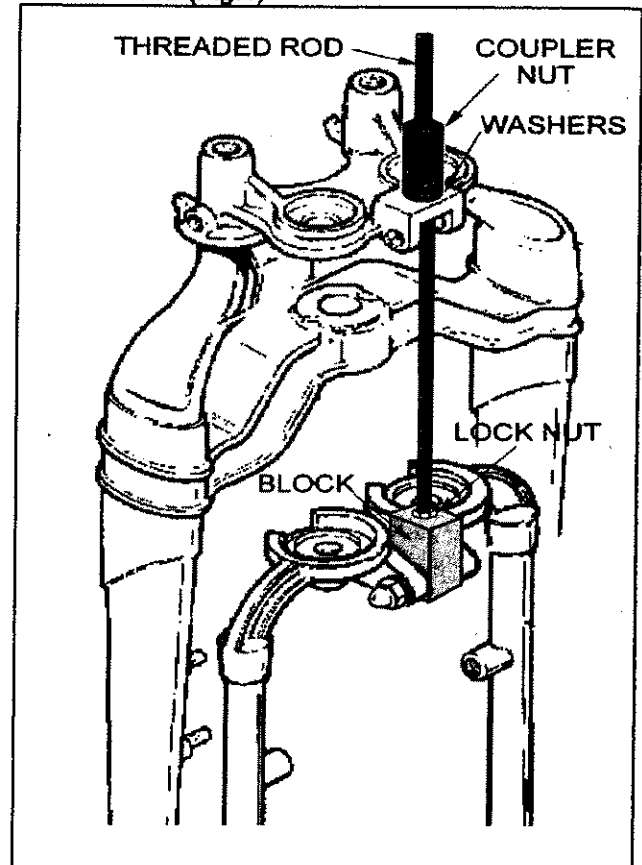


Fig. 1 White Brothers Springer Tool

6. Refer to Fig. 3, and fasten a cable tie around the fork legs and then remove the front pivot bolts from the rockers; let the rockers hang.

WARNING

IF THE FORK LEGS ARE NOT SECURED TOGETHER, THE SMALLER FORK CAN SNAP FORWARD, AS THE FORK SPRINGS ARE BEING COMPRESSED, HARD ENOUGH TO CAUSE PERSONAL INJURY.

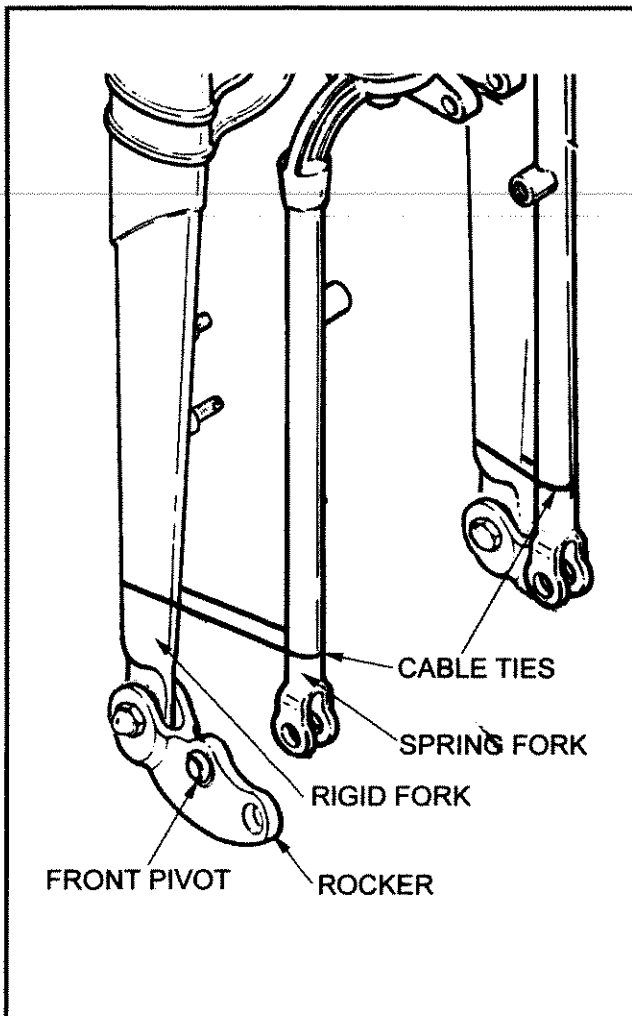


Fig. 3 Attach Cable Ties Here

7. Tighten the Coupler Nut on the Springer Tool until the larger (compression) springs bottom against the internal travel bumpers. This process takes the pressure off of the upper (rebound) springs.
8. Remove the acorn nuts, flat washers and spring bridge, then unscrew and remove the upper spring restraints; fig. 2.
9. Remove the rebound spring cups; located directly under the upper springs. Remove the rubber travel bumpers and sleeves from under the spring cups; fig. 2.
10. Unscrew the Springer Tool, gradually releasing the pressure on the lower (compression) springs; remove the spring fork. Remove the compression springs, spring cups and travel bumpers. Do not remove the inside compression springs.

ASSEMBLY

11. Install the Lowering Kit compression springs on the spring fork (fig. 2) and replace the spring cups and travel bumpers. Insert the spring fork into the rigid fork and hold it in position with the Springer Tool as you re-place the cable ties around the forks for re-assembly.
12. Tighten the Springer tool until the compression springs are bottomed. Reinstall the rebound bushings, travel bumpers and spring cups. Set the Spring Spacers from this kit on the spring cups and slide the Rebound Spacers onto the spring rods (fig. 4). Reinstall the stock rebound springs. Screw the spring restraints until from 5/8-3/4" of threads are exposed at the tops. Each side must have exactly the same amount of threads exposed. Replace the spring bridge, flat washers and nuts. Nut torque is 30-35 ft/lbs.

NOTE

Place the headlight wire between the rebound springs before installing the spring bridge.

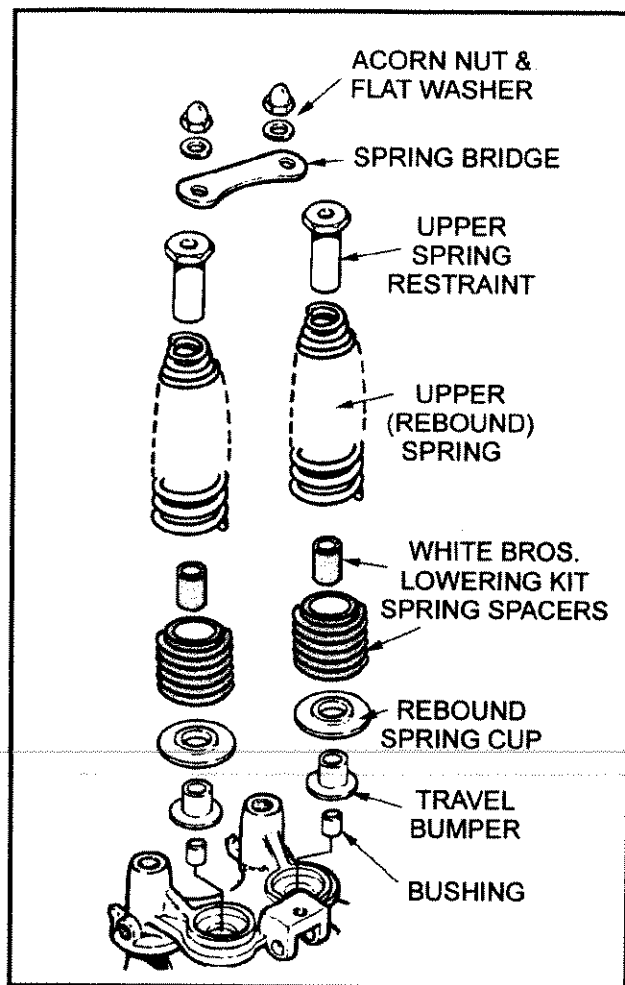


Fig. 4 Lowering Kit Spacers

13. Re-install the front rocker pivot bolts,. Use low strength thread lock (Loctite or Three Bond brand) on the bolts and torque the nuts to 45-50 ft/lbs.
- 14 Remove the Springer Tool and replace the shock, use Blue Loctite on the bolt threads and tighten the acorn nuts to 45-50 ft-lbs.
- 15 Replace the headlight(s) and securely tighten the mounting bolts.
- 16 Replace the front wheel and fender assemblies.

CAUTION

Before riding the motorcycle, check to make certain that the fork operation is smooth and that all wiring is routed as it was originally.

