

### WARNINGS & ALERTS

- This kit is designed to accept Harley-Davidson™ OEM fork tubes.
- It is crucial that the amount of additional preload added NEVER ALLOW THE FORK SPRINGS TO GO SOLID. Failure to heed this warning may result in damage, loss of control, injury or death.
- Do not attempt to install, tighten or loosen adjustable preload fork caps using the 3/8" hex socket in the center - it is ONLY for adjusting preload.
- Operators must use extreme caution when operating a modified motorcycle, particularly while familiarizing themselves with its altered handling characteristics.

### PARTS INCLUDED



1 - "soft-socket" installation tool

### LIMITED GUARANTEE

We continually inspect and try to improve our products. All parts have been inspected prior to packaging and our guarantee is limited to replacement of defective parts. This guarantee is in lieu of all guarantees or warranties implied or expressed. Because we cannot control the application of our products, buyer assumes risks for any and all damage caused by himself or third party, by virtue of failure of these parts. We make no warranty as to products distributed by us, expressed or implied, including without limitation any warranties or merchant ability and fitness for a particular purpose. We will however, pass on all warranties made by the manufacturer, who has the sole responsibility for performing such warranties. The manufacturer shall solely be responsible for any damage to person or property arising from design, manufacturing and testing of all products, and we accept no liability for such damages. We shall not be liable for indirect or consequential damages.

### IMPORTANT NOTE

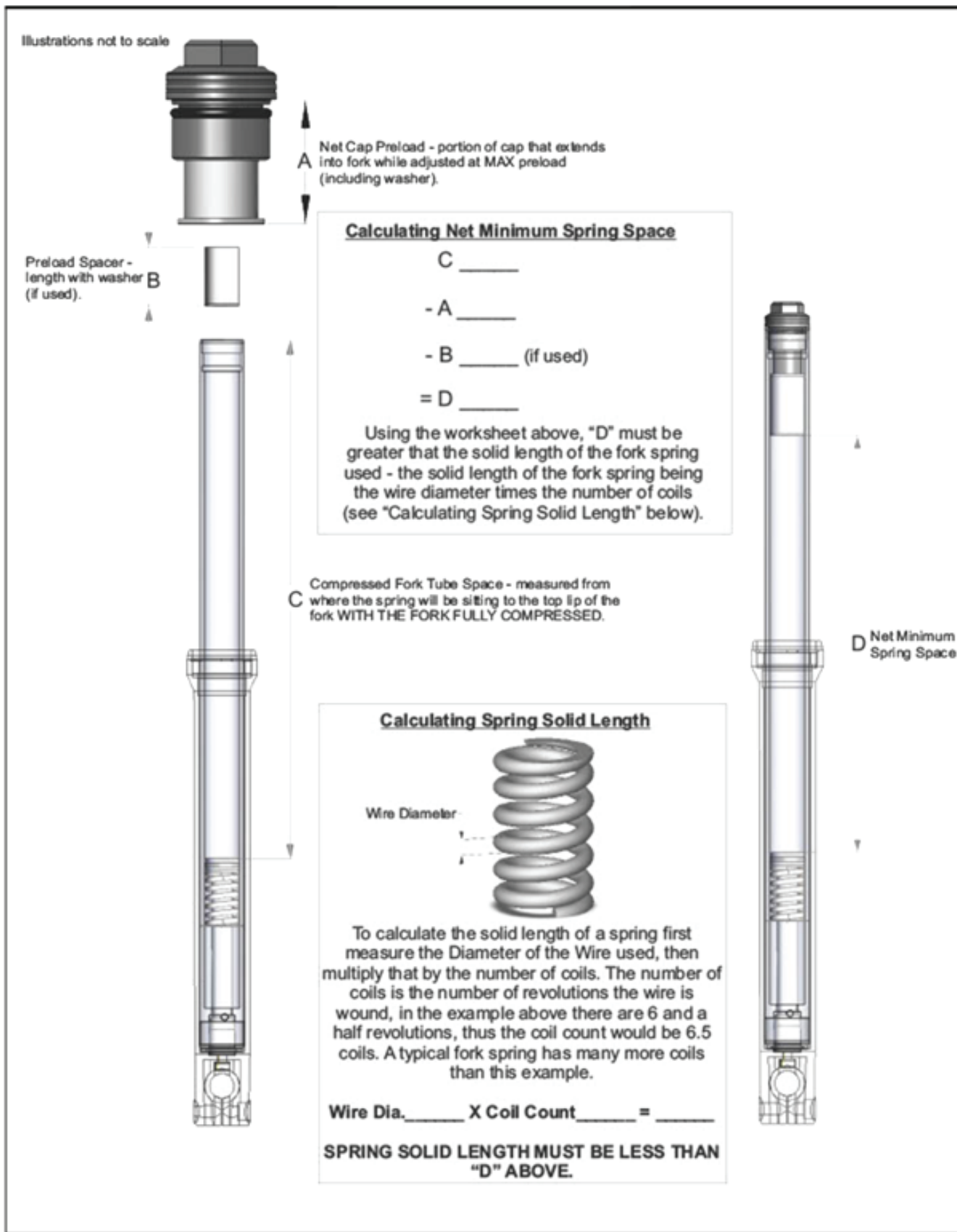
- Read all the instructions carefully before installing this kit on your motorcycle. Use your authorized Harley-Davidson™ Service Manual as a reference while installing this kit.

*These caps are a direct replacement for your stock fork caps, with the ability to adjust your preload externally. To install them simply remove your stock fork caps and install your new urly Brand preload adjustable cap per the procedure outlined in your authorized Harley-Davidson service manual, noting the following.*

### INSTALLATION INSTRUCTIONS

- **It is crucial that your fork springs NEVER go solid. This means that when your forks are fully compressed and your Burly Brand adjustable preload fork caps are adjusted to their maximum preload setting, the remaining fork spring space must never be less than the solid height of your chosen fork spring. If it is, you will need to shorten your preload spacers or choose different fork springs with a shorter solid height.** Compressed spring space can be calculated by compressing the fork assembly all the way, measure the distance from the lower spring seat (typically the top of the damper-rod in the fork) to the top of the fork tube, then subtract the portion of the cap that threads into the fork, the washer, 20mm (.79"), and the length of the preload spacer (if used) and that's your net compressed spring space. Measure the WIRE diameter of the fork springs used and multiply that number by number of coils the spring has - that's the spring's solid height. The spring's solid height MUST be less than the net compressed spring space of your fork assembly. Use the illustrations and worksheet on page 2 to verify these crucial measurements.
- Before installing, make sure the cap is adjusted to its minimum setting by rotating the adjuster counterclockwise until it stops rotating and is contracted to its shortest length.
- Place the supplied flat-washer between the top of the spring (or preload spacer, if used) and the bottom of the cap.

Instructions continued on page 3.



## INSTALLATION INSTRUCTIONS (CONT)

- Using the supplied "soft-sock" to avoid cosmetic damage to the cap, torque the Burly Brand preload adjustable cap to the factory recommended torque for the fork caps on your make & model bike. **DO NOT** attempt to tighten or loosen the fork cap using the 3/8" hex socket in the center, as it is for adjusting the preload only.
- Proceed to "RIDE SAG & PRELOAD ADJUSTMENT".

## RIDE SAG & PRELOAD ADJUSTMENT

Optimum ride sag is approximately one-third or 33% of your total suspension travel. You must first know what your total travel is, and to accurately know that you need two measurements - fully extended and fully compressed - getting the fully compressed measurement typically involves re-assembling the suspension without the spring(s) and compressing it all the way to the bottom. Subtracting the compressed from the extended is the most reliable way to know your true total travel. A few other less reliable methods of knowing your bike's total travel is to check with your local dealer, look at the manufacturer's claimed specifications, or check with other owners of the same bike. However you get it, multiplying your total travel by 0.33 will get you your target ride sag.

Measuring your fork sag involves two steps. First with the front wheel lifted slightly off the ground with the forks fully extended, measure from the axle to a fixed point on the sprung part of the chassis - the lower triple clamp for example. Then, while sitting on the bike ready to ride take the same measurement. Subtract the second measurement from the first - that is your current front ride sag.

Compare the target ride sag to the current ride sag. If the current ride sag is more than the target, increase the preload until you hit the target ride sag. Conversely if the current ride sag is less than the target, reduce the preload until the target ride sag is achieved.

Your new Burly Brand preload adjustable fork caps allow you to adjust your preload up to 20mm (0.79") and to do this all you need to do is rotate the hex socket in the center of the cap - clockwise increases preload, counter clockwise reduces preload. Be careful not to over rotate the adjuster tightening it against its stops, when you feel it stop it has reached the end of its adjustment. It is recommended that if you reach a stop at either end of the adjustment, turn the adjuster one-half turn back away from that stop. Make your adjustments evenly on both sides by counting the rotations from minimum preload - back the adjuster all the way out counterclockwise then turn each adjuster clockwise in the same number of rotations until the desired preload is achieved.

## FINE TUNING

When installed and adjusted to their minimum preload setting, your new burly brand preload adjustable fork caps produce no additional preload over your stock fork caps. If you require less preload than stock and your forks have preload spacers, you can cut them to a shorter length to reduce your initial preload. If you need less preload and your forks do not have preload spacers, then you'll need different fork springs. If you've adjusted your Burly Brand preload adjustable fork caps to their maximum setting and still need more preload, you can make the needed length preload spacers out of metal or PVC tubing of the appropriate diameter. We recommend increasing or decreasing the spacer lengths in 13mm (.050") increments. **Never use preload spacers that allow the springs to go solid when the adjusters are adjusted to the maximum preload (See page 2).**