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INSTRUCTIONS

MOTION PRO UNI-SAG™ TELESCOPIC SAG SCALE P/N 08-0406

Thank you for purchasing this Motion Pro tool. With proper care and use this tool will provide you with years of excellent service.

Correct suspension tuning is a must for reducing lap times and improving the handling characteristics of your motorcycle. The first and single most important step is to measure and set your bike's static and rider sag. This ensures you have the proper spring rate and ride height for your bike, weight and riding style.



Figure 1

Setting Static Sag

1. Assemble your sag scale as shown in Fig. 1. Use the appropriate seat bolt and rear axle adapter for your application. If the rear axle adapter will not fit into the rear axle remove the black plastic sleeve or use the smaller diameter rear axle adapter supplied with the kit. For late model KTM's you can swap the direction of your rear axle and use the silencer mounting location or purchase our optional Fender Clamp (P/N 08-0440).



Figure 2

2. Place the motorcycle on a stand to elevate the rear wheel and allow the suspension to fully extend. Attach the Uni-Sag™ to the rear axle and rear seat-mounting nut (Fig. 2). Adjust the heim-joint with the spacers so that the Uni-Sag™ is running straight up and down when viewing it from the back of the bike. You do not want the Uni-Sag™ leaning into or away from the motorcycle or it will bind in use.



Figure 3

3. Loosen the rear axle adapter and slide the lower tube down until the bottom of the recording marker is at 0 mm (Fig. 3) and then tighten the rear axle adapter. The Uni-Sag™ has now been zeroed to record your static and race sag.



Figure 4

4. Take the bike off the stand and with no one on it hold it in an upright position. The suspension will sag under the weight of the bike (Fig. 4).

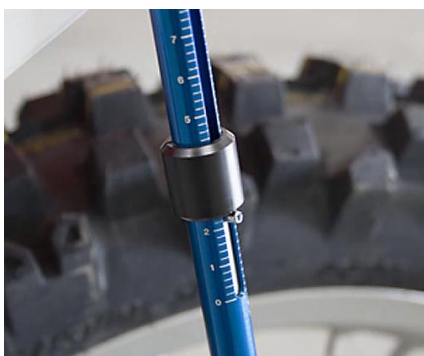


Figure 5

5. While holding your bike in an upright position view the reading at the bottom of the recording marker (Fig. 5). This is your static sag and the reading should be somewhere between 22mm and 35mm. Check your service manual for the allowable range and procedures necessary to adjust the spring preload so the static sag falls into the specified range.

Setting Race Sag



Figure 6

6. Wearing all your riding gear sit on the motorcycle in a normal seated position. Now with both feet on the pegs balance the bike for a second while doing your best to distribute your weight evenly between the seat and the pegs (Fig. 6). It is important that you do not bounce up or down on the bike while doing this or you will get a false reading.



Figure 7

7. Now carefully get off the bike without pushing down on the suspension and check the bottom of the recording marker for your race sag. The reading should be somewhere between 90mm to 100mm (Fig. 7). If your race sag is less than 90mm with the correct static sag, your spring is probably too stiff for your riding weight. If the race sag is more than 100mm with the correct static sag, your spring is probably too soft for your riding weight. In either case it is important to check your factory service manual for the allowable range and factory recommendations regarding replacing your shock spring if your race sag does not fall within the specified range.

Motion Pro Co. would like to take this opportunity to thank you for purchasing a Motion Pro Product. We know that you have many choices when making your tool selections, and we appreciate your business. For any additional information regarding this tool or any other Motion Pro product, please visit our web-site at, www.motionpro.com.