



All makes & Models - Road & Trail
Agricultural & 4 Wheeler Specialist

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MEASURING STATIC SAG

Static sag is the amount the bike compresses from fully extended, with the rider on board.

- 1 First extend the forks (or REAR END) completely. Measure from the wiper to the bottom of the triple clamp on right side up forks or from the axle clamp to the bottom of the fork tube on upside down forks (REAR END- or from the axle vertically to a mark on the frame). This distance is L1.
- 2 Take the bike off the stand; put the rider on board in riding position. This means standing on the pegs on a dirt bike and in sitting position on a street or road race bike (just sit in riding position, not a full tuck). Get an assistant to balance the bike or have the rider hold onto something. Push down on the front end and let it extend **very slowly**. Where it stops, measure the distance between the wiper and the bottom of the triple clamp again (REAR END- axle to vertical mark). **Do not bounce**. This is L2. (If there were no friction in the seals the bike would come up a little further.)
- 3 Next lift up on the front end and let it drop **very slowly**. Where it stops measure it again. **Do not bounce**. This is L3. The reason L2 and L3 are different is due to stiction or drag in the seals or brushing's. (If there were no friction in the seals the bike would drop a little further.)
- 4 Halfway between L1 and L2 is where it would be with no friction. Therefore L2 and L3 must be averaged and subtracted from L1 to calculate true static sag.

$$\text{Static sag} = L1 - (L3 + L2)/2$$
- 5 To adjust Static Sag makes longer or shorter preload spacers or use the preload adjusters, if available.

	Road Race	Street Bike	Dirt – Full size	Dirt Mini – 80cc
Front Sag	25-30mm 25%T	30-35mm 25- 33%T	70-80mm 25%T	65-75mm 25%T
Rear Sag	25-30mm 25%T	30-35mm 25- 33%T	95-100mm 33%T	80-85mm 33%T
Rear free Sag	0-5mm	0-5mm	15-20mm	8-13mm
Fork Preload	10-30mm	15-35mm	5-10mm	4-8mm
Front Difference	15-25mm	15-25mm	15-25mm	12-25mm
Rear Difference	2-5mm	2-5mm	5-10mm	4-8mm