

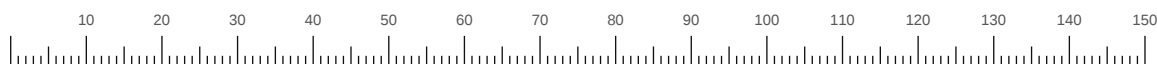
Shock And Fork Measurement

Eye to eye, mount type and fork dimensions. Four numbers that let you order suspension without a model number.

SPRINGS STORE ENERGY

A suspension spring under preload releases a great deal of energy if it escapes its retainer. Do not attempt to dismantle a shock or a fork leg without the correct spring compressor and an understanding of what you are doing. Measuring one as an assembly, which is all this sheet asks for, is safe.

PRINT CALIBRATION — CHECK BEFORE MEASURING



Lay a steel rule along this scale. The 150mm mark must fall at exactly 150mm. If it does not, reprint at 100% / "Actual size" with page scaling off — every measurement you take from a scaled sheet will be wrong.

REAR SHOCK — THE MEASUREMENT THAT MATTERS

Eye to eye, uncompressed, from the centre of one mounting hole to the centre of the other. Take it with the shock off the machine, or at least with the wheel hanging so nothing is loading it. A shock measured while supporting the machine's weight reads short, and the error is easily an inch.

EYE TO EYE, UNCOMPRESSED

SAME IN INCHES

MEASURED ON OR OFF THE MACHINE?

mm

in

HOW CLOSE IS CLOSE ENOUGH

A difference of a few millimetres in eye-to-eye length is generally tolerable and mainly changes ride height very slightly. A difference of a centimetre or more changes the geometry, the ground clearance and how the centre stand behaves. What is never tolerable is the wrong end fitting.

THE ENDS, WHICH LISTINGS USUALLY OMIT

END	TYPE	BUSH INSIDE DIA MM	WIDTH ACROSS THE MOUNT MM	NOTES

Write *UPPER* in the first row and *LOWER* in the second.

- ☐ Eye — a hole through a rubber or metal bush
- ☐ Clevis — a fork straddling a mounting tab
- ☐ Stud — a threaded post rather than a hole
- ☐ Both ends the same, or different from each other

SPRING AND BODY

SPRING FREE LENGTH

 mm

SPRING OUTSIDE DIAMETER

 mm

WIRE DIAMETER

 mm

PRELOAD ADJUSTER?

Stepped collar, threaded, or none

BODY DIAMETER

 mm

RESERVOIR FITTED?

FORKS

TUBE OUTSIDE DIAMETER

 mm

OVERALL LEG LENGTH

 mm

AXLE DIAMETER

 mm

STEERING STEM LENGTH

 mm

STEM THREAD SIZE

YOKE CENTRES

 mm

BRAKE MOUNT TYPE

BEARING TYPE

Ball and cup, or taper roller

MUDGUARD MOUNT SPACING

 mm

WHILE IT IS OFF

- ☐ Shock body not weeping oil around the shaft
- ☐ Shaft not pitted, scored or rusty
- ☐ Bushes not perished, split or missing
- ☐ Spring not sagged, and both of a pair the same free length
- ☐ Damping present — it should resist being compressed by hand, not collapse
- ☐ Fork legs not pitted where the seal runs
- ☐ Fork seals not weeping
- ☐ Steering turns lock to lock without notchiness or tight spots
- ☐ No play when the forks are pulled fore and aft with the front wheel off the ground

THIS SHEET RECORDS, IT DOES NOT RECOMMEND

Nothing here tells you which part to buy. It tells you what you currently have, in the units a seller works in. Machines built to the same nominal specification were fitted with different components by different suppliers, sometimes inside one model year, so the only reliable reference is the item in your hand.

Need to work out what you actually own?

The Scooter Parts Registry is a free public record of the Chinese factories behind US-market scooters, ATVs and go-karts — brand, engine family, VIN prefix, factory and related machines. No account, no email.

thescooterparts.com/identify