

Suspension Terminology

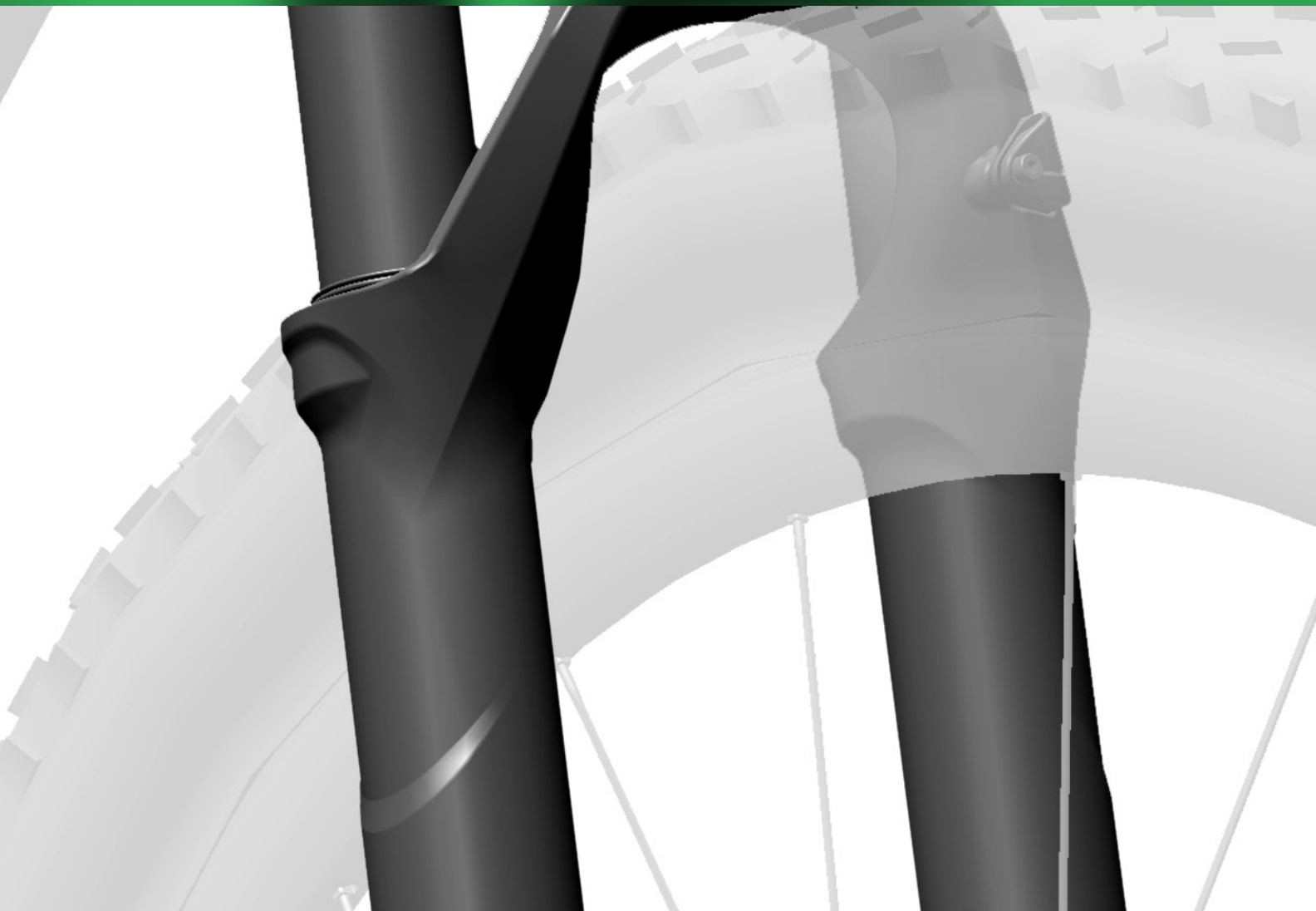


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A

Air can	A pressurized chamber on a rear shock that contains the positive and negative air springs.
Air fill valve	An interface that allows air into and out of a pressurized chamber.
Air shaft	A straight rod that attaches to an air spring piston.
Air shaft guide	A specifically designed part that allows a shaft to pass through the inner bore while maintaining the shaft's alignment.
Air spring	A pressurized air chamber designed to absorb, store, and release energy.
Air spring top cap	A cap threaded into a stanchion that seals the components.
Air valve cap	A threaded cap on top of an air spring top cap that protects the air fill valve from contaminants in the atmosphere.
Anchor bolt	A bolt on the RS-1 fork that attaches to either the damper or air shaft which holds the fork together.

B

Backup ring	A rigid ring that holds a seal in place and keeps the seal in its designed shape.
Base plate	A specifically designed part on coil spring forks that allows a shaft to pass through the inner bore while maintaining the shaft's alignment.
Bladder	A part in a damping cartridge made of stretchable material that expands to compensate for fluid displacement during compression.
Bleed port	A valve that allows for hydraulic fluid to be drained or added to a hydraulic system.
Bleed screw	The screw that seals a bleed port.
Bottom bolt	A bolt on a suspension fork that threads into either a damper or an air/coil shaft which holds the fork together.
Bottom out bumper	A cylindrical, rubber ring that cushions impact between parts at suspension bottom out.
Bottomless Tokens™	Specifically designed and sized spacers that increase or decrease air spring volume to tune bottom out force in an air spring fork.

Brass keys Cylindrical bearings in a height-adjust seatpost that allow for linear movement of the upper tube in the lower post, and prevents rotation between the two parts.

Bushing A part that acts as a bearing and provides a contact surface with another surface.

C

CSU (Crown Steerer Upper) An assembly comprised of the crown, steerer tube, and upper tubes.

Cable stop collar A cable mount that fastens onto a compression top cap and provides a cable stop for routing remote cable housing.

Carbon crown steerer A one-piece assembly comprised of the steerer tube and crown constructed out of carbon fiber.

Carbon fiber upper A one-piece assembly comprised of the crown, steerer tube, and fork upper constructed out of carbon fiber.

Cartridge tube A tube that houses the damper system and eliminates air and contaminants from the atmosphere from entering the damper circuit.

Check valve A valve in a damper that allows fluid to flow through a piston in one direction while limiting or eliminating fluid flowing back through the same ports.

Coil spring A helical spring designed to absorb, store, and release energy.

Compression adjuster knob An external knob on a damper that adjusts compression damping.

Compression damper An assembly that controls the speed the suspension can compress into its travel.

Compression lever An external lever on a rear shock that adjusts compression damping.

Compression needle A tapered needle-shaped adjuster on a compression piston that regulates how the fluid flows.

Compression piston A cylindrical body with ports that controls how fluid flows.

Compression shim stack Thin springs and steel washers used in different combinations on a compression piston that regulates how the fluid flows.

Compression top cap A threaded cap that seals the top of a damper chamber in a fork from contaminants in the atmosphere.

Connectamajig™ Coupled parts specifically designed for a hydraulic hose that allows it to be disconnected and connected several times before a bleed is required.

Countermeasure™

A metal coil that offsets the breakaway force of the IFP.

Coupler

A device that connects two discrete parts.

Crown

A part on a fork that connects the steerer tube and the upper tubes.

Crush washer

A washer that creates a seal between two parts by deforming its shape as the parts are tightened together.

Crush washer retainer

A metal washer that holds the crush washer in position.

D**Damper**

A mechanism that absorbs energy by using fluid flowing through ports to control the compression speed and/or rebound of the suspension.

Damper body

The chamber on a rear shock that contains the damping components.

Damper body eyelet

The hole at the end of the damper body on a rear shock that attaches a shock to the bicycle frame with hardware.

Damper shaft eyelet

The hole at the end of an air can on a rear shock that attaches a shock to the bicycle frame with hardware.

Drive side

The side of a bicycle where the drivetrain is located.

Dropout

An opening at the bottom of the fork for an axle to secure the hub of the wheel to the fork.

F**Floating seal head**

A non-fixed cylindrical object that houses internal and external seals guiding a shaft through it.

Flood gate adjuster

An external knob on the damper or XLoc™ remote that adjusts the amount of force needed to blow off a lockout.

Foam ring

A circular piece of foam under a fork's wiper seal, saturated in fluid, that lubricates and protects from contaminants.

G**Glide ring**

A bushing that serves as a low-friction sliding surface that prevents metal-on-metal contact.

H

High volume air can	A variation of a rear shock air can that has a larger positive air volume than the standard air can.
Hose barb	A threaded hydraulic fitting that provides a sealed connection to the hose.
Hose guide	An object that guides and/or secures a hose.

I

IFP (Internal Floating Piston)	A moving piston in a closed damping system that separates the fluid and spring.
IFP tube (Internal floating piston tube)	A tube inside a cartridge that houses the IFP inside a Reverb.

J

Jounce bottom out bumper	A progressive spring that prevents the suspension from bottoming out and acts as a progressive spring.
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L

Lockout adjuster knob	An external knob on a damper that turns on or off the lockout on a fork.
Low-speed compression adjuster knob	An external knob on a damper that adjusts low-speed compression damping.
Lower leg	The lower structure of a suspension fork that slides on the stanchions and attaches the wheel.
Lower post	The lower tube, inserted into the bicycle frame, on a height-adjust seatpost that slides on the upper post.

M

Mechanical negative spring	See Countermeasure™.
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N

Negative air spring	A pressurized air chamber, opposite a positive air spring, that offsets the breakaway force of the air spring.
Non-drive side	The side of a bicycle opposite the drivetrain.

O

O-ring A donut shaped object that is used to seal and prevent contamination.

P

Piston A cylindrical body that moves inside a tube against the fluid or the gas, or both.

Poppet valve A mechanism in a Reverb that meters the flow of fluid during use.

Poppet valve cover A part that connects to a Connectamajig or a hose barb and allows the passage of fluid through a Reverb.

Positive air spring An adjustable pressurized air chamber, opposite a negative air spring, that determines the amount of force required to compress a fork or shock.

Post head A part that is used to connect the saddle clamp assembly to the upper post of a height-adjust seat post.

Preload adjuster knob An external knob on a coil spring that changes the initial spring rate.

Preload spacers Parts that can be added on top of a coil spring to increase the initial spring rate.

Q

Quad seal A variant of an o-ring, with a four-lobed shaped profile, used to seal and prevent contamination.

R

Rebound adjuster knob An external knob on the rebound damper of a suspension fork that determines how quickly the fork returns to full travel after an impact.

Rebound damper The assembly that controls the return speed of the suspension after compressing in its travel.

Rebound damper shaft A straight rod that attaches to a rebound damper piston.

Rebound shim stack Thin springs and steel washers used in different combinations on a rebound piston that regulates how the fluid flows.

Remote A device on the handlebar that controls the lockout function on the fork/shock and the height adjustment on a Reverb.

Retaining ring

A fastener that holds an assembly on a shaft or in a housing bore, when installed in a groove.

Rod wiper seal

The inner seal in the sealhead that allows a shaft to pass through and protects the inside of the fork/shock/seatpost from contaminants during use.

S**Saddle clamp assembly**

An assembly that secures the saddle to the seatpost.

Schrader valve

A standardized valve that allows air into and out of a chamber.

Seal head

A cylindrical object that houses internal and external seals guiding a shaft through it.

Spool

A cam that fastens onto a compression top cap and rotates the cable when a mechanical remote is actuated.

Stanchion

The tube on a fork that slides in and out of the lower leg or the carbon fiber upper (RS-1) and contains the damper or spring assembly.

Steerer tube

The steel, aluminum, or carbon fiber tube at the top of the fork.

Support washer

A washer used in conjunction with a wave spring that adds support to a retaining ring to hold an assembly on a shaft or in a housing bore.

T**Top hat**

A “top hat” shaped plate in a rear shock that closes or opens ports that allows the damper to lock or unlock.

Top hat spring

A spring that preloads the top hat washer.

Top hat washer

A washer used in a lockout shock that functions as a check valve and allows fluid to flow in only one direction.

Top out bumper

A rubber cushion that prevents hard impact at the end of the rebound stroke.

Top out bumper cone

A cone-shaped rubber cushion that prevents hard impact at the end of the rebound stroke.

Travel adjustment knob

The external knob on a Dual Position Air™ spring that switches between the preset travel positions.

Travel spacer

Specifically designed and sized spacers that can be added to some forks to reduce travel.

U**Upper tube**

See stanchion.

Upper post

A tube connected to the post head that slides into the lower post in a height-adjust seatpost.

V**Valve core**

The part inside of a shradler valve that holds or releases air from an air spring.

W**Wave spring**

A washer with several 'wave' shaped curves that adds preload.

Wiper seal

An external seal that protects the inside of the fork/shock/seatpost from contaminants during use.

Wrench flats

Flat surfaces on the outer edge of an object for a wrench to grip and turn an object.

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