



Moto Springs

General Installation & Setup Guide

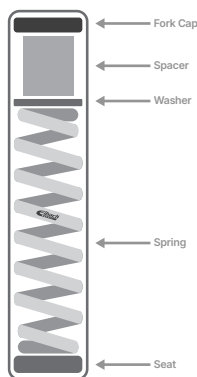


Suspension springs store significant energy. Installation should be performed by a qualified technician with the correct service manual, secure stands and approved spring-compression tools. Wear eye protection. Never pry, heat or cut a loaded spring, and never use impact tools on shock shafts, piston-rod nuts or adjuster components.

Before you begin

- Verify part number, application, spring rate, free length and inside diameter.
- Inspect seats, spacers, retainers, seals, bushings and mounting hardware.
- Record preload, clicker settings, fork height and current sag.
- Use the OEM torque values, fluid type, oil height and service sequence.

Fork Springs



Component order varies by fork design. Photograph and label the original stack before removal.

1. Secure and unload

Place the motorcycle on a stable stand with the front wheel fully unloaded. Remove components only as directed by the service manual.

2. Record and release

Note cap, preload and adjuster positions. Loosen fork caps in the specified sequence and release spring preload slowly.

3. Remove and stack

Note the exact order and orientation of the cap, spacer, washer, spring and guide components.

4. Install the Eibach spring

Confirm the correct rate and length. Seat the spring squarely and reuse OEM components only when specified.

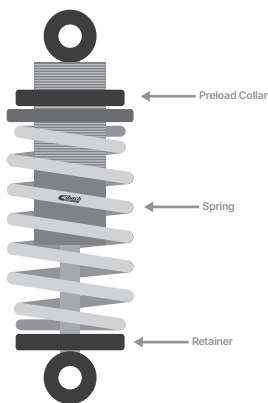
5. Set fluid and reassemble

Set oil type and air gap to OEM or kit specification. Start caps by hand, then torque caps, clamps, axle and brake hardware to OEM values.

6. Equalize and verify

Match left/right settings, bleed trapped air when applicable, cycle the fork and confirm smooth travel with no leaks or line interference.

Rear Springs



Never remove the spring retainer until preload is fully released and the spring is safely controlled.

1. Secure and unload

Support the motorcycle so the rear wheel and shock are fully unloaded. Remove the shock following the OEM sequence.

2. Release preload

Back off the preload collar(s). Use an approved spring compressor when required; do not pry or strike the spring.

3. Remove the OE spring

Remove the retainer only after all spring load is released. Note seat, washer and collar orientation.

4. Install the Eibach spring

Confirm inside diameter, free length and rate. Ensure both ends sit flat and the retainer is fully engaged.

5. Reinstall the shock

Set an initial preload near the recorded baseline. Refit the shock and torque all mounting hardware to OEM specifications.

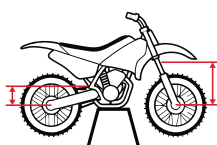
6. Set sag and inspect

Adjust preload to the specified static and rider sag. Verify spring, tire, exhaust, linkage and hose clearance through full travel.

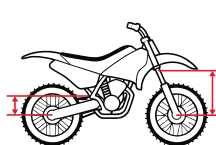
Set Sag

Use the same axle and chassis reference points for every measurement.

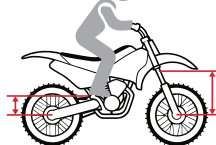
A. Fully Extended



B. Bike Only



C. Rider in Gear



$$\text{Static Sag} = A - B \quad \text{Rider Sag} = A - C$$

Follow the motorcycle or suspension manufacturer's target values. Adjust preload to change sag. **Preload does not change spring rate.** If the correct sag cannot be reached within the allowed preload range, select a more suitable spring rate.