

# Tires, Wheels & Suspension

Tire pressure, wheel inspection and suspension setup for CEMOTO bikes.

## Tire pressure

**Check air pressure frequently.** The owner manual is explicit: if the air pressure is too low, resistance increases and the riding range is reduced.

## Why pressure matters

| Pressure | Effect                                                                                                                          |
|----------|---------------------------------------------------------------------------------------------------------------------------------|
| Too low  | Increased rolling resistance (shorter range); risk of rim damage and pinch flats; vague, unstable steering; increased tire heat |
| Correct  | Best balance of grip, comfort and efficiency                                                                                    |
| Too high | Reduced grip, especially on loose off-road surfaces; harsh ride; increased puncture risk from sharp edges                       |

## Inflating correctly

- Use a **hand pump with an integrated pressure gauge** and a **Schrader-type valve**.
- **Do not** use a pressurized gas-station air system. Those are designed for car tires at much higher pressure and capacity than a bike tire requires, and can over-inflate or damage the tire.
- Tires are shipped at maximum PSI for transport and may lose pressure between production and delivery — **always check before the first ride**.

## Off-road pressure tuning

The D-series runs knobby off-road tires. Lower pressures improve traction on soft terrain but increase pinch-flat risk:

| Surface | Tendency |
|---------|----------|
|---------|----------|

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| Soft sand, mud, loose gravel | Lower pressure for a larger contact patch and better float        |
| Hard-packed trail, rock      | Higher pressure to protect the rim and improve steering precision |
| Tarmac or sealed surface     | Higher pressure for efficiency and lower rolling resistance       |

⚠ **Caution:** pressures below the tire manufacturer's minimum risk rim damage and pinch flats on a heavy electric dirt bike. Do not go below the sidewall minimum.

# Tire wear and replacement

| Wear indicator             | Action                                                            |
|----------------------------|-------------------------------------------------------------------|
| Knobs rounded or flattened | Grip has dropped significantly — replace                          |
| Center tread worn away     | Replace                                                           |
| Sidewall cracking          | Replace — a safety risk                                           |
| Cuts or exposed cords      | Replace immediately                                               |
| Repeated punctures         | Inspect for embedded debris; replace if the casing is compromised |

Tires and inner tubes are **wear components excluded from warranty**, but are available as replacement parts — see [Spare Parts & Compatibility](#).

## Tire options

CEMOTO supplies **street tires** for the D-series as an accessory, alongside the standard knobby off-road fitment:

| Tread type        | Best for                                                                    |
|-------------------|-----------------------------------------------------------------------------|
| Knobby (standard) | Dirt, mud, loose and soft terrain                                           |
| Street tire       | Hard-packed surfaces; lower noise and rolling resistance; longer tread life |
| Mixed-surface     | A compromise where a rider needs both                                       |

Confirm the correct size for your model before ordering. D-series sizes: **14"/12"** (D02 Classic, D03 Pro) and **17"/14"** (D02 Track, D03 Beast).

# Wheel inspection

| Check         | What to look for                                                                         |
|---------------|------------------------------------------------------------------------------------------|
| Trueness      | Lift the wheel and spin it. Side-to-side wobble indicates a buckled rim or uneven spokes |
| Spoke tension | Squeeze adjacent spokes — they should feel similar. A loose spoke produces a dull tone   |
| Rim condition | Dents, cracks, flat spots                                                                |
| Bearings      | With the wheel off the ground, feel for roughness, grinding or lateral play              |
| Axles         | Secure, correct torque, wheel spins freely                                               |
| Hub           | No cracks around spoke holes                                                             |

“ **Wheels and drive systems wear normally.** It is the rider's responsibility to systematically check the wheels for excessive wear and to adjust or replace drive system components as needed.

# Suspension

CEMOTO D-series bikes have **full front and rear suspension** — front fork and rear shock. The 72V performance models use pro off-road suspension front and rear. Suspension is what keeps the tires on the ground, which matters more for usable traction than peak power.

## Front fork

| Check                   | Detail                                                                    |
|-------------------------|---------------------------------------------------------------------------|
| Travel                  | Compress the fork and confirm it moves smoothly through its range         |
| Oil leakage             | A ring of oil on the fork tube indicates a failed seal — service required |
| Pitting or scratches    | Damaged stanchions tear seals; they must be replaced                      |
| Fork length (D02 Track) | 29.53 in (75 cm)                                                          |

# Rear shock

| Check          | Detail                                                                     |
|----------------|----------------------------------------------------------------------------|
| Mounting bolts | Secure and correctly torqued                                               |
| Oil leakage    | A failed shock loses damping and can bottom out                            |
| Bushing play   | Lift the rear of the bike and check for lateral play                       |
| Spring preload | Adjust to rider weight so the shock sits in the correct part of its travel |

# Setting sag for your weight

Sag is how far the suspension compresses under the rider's static weight. It should sit in a moderate part of the total travel — enough that the suspension can extend over dips as well as compress over bumps.

**To measure:**

1. Lift the rear of the bike until the suspension is fully extended. Measure from the axle to a fixed point on the frame.
2. Sit on the bike in riding position with both feet on the pegs. Have a helper measure again.
3. The difference is the sag. Adjust spring preload to bring the sag into the recommended range for your weight.

If the sag cannot be set correctly within the preload range, a spring rate change is needed — this is a specialist job.

# Suspension maintenance

| Interval             | Action                                                             |
|----------------------|--------------------------------------------------------------------|
| Before every ride    | Visual check for leaks and damage; check that the travel is smooth |
| After off-road rides | Clean mud from the fork wipers and shock; wipe the stanchions      |
| Monthly              | Check mounting bolts; check for oil weeping                        |
| Every 6 months       | Consider a fork and shock service — oil and seals degrade with use |
| Annually             | Full suspension service                                            |

**Do not** use a pressure washer on fork seals, shock seals or bearings. High-pressure water drives grit and moisture past the seals.

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## Related pages

- [Maintenance Schedule](#)
- [Cleaning & Storage](#)
- [Brakes](#)
- [Spare Parts & Compatibility](#)
- [D-Series Specifications](#)

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