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› [AVASTA](#) /

› [AVASTA Mountain Bike AV-560 User Manual](#)

## AVASTA AV-560

# AVASTA Mountain Bike AV-560 User Manual

Model: AV-560 | Brand: AVASTA

## 1. INTRODUCTION

This manual provides essential instructions for the assembly, operation, and maintenance of your AVASTA 27.5 Inch Mountain Bike, Model AV-560. Please read this manual thoroughly before your first ride to ensure safe and optimal performance.

### Safety Warnings

- Always wear a helmet when riding.
- Ensure all bolts and quick releases are securely tightened before each ride.
- Regularly inspect brakes, tires, and gears for proper function.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and obey all traffic laws.

## 2. SETUP AND ASSEMBLY

Your AVASTA Mountain Bike is approximately 85% pre-assembled. The remaining assembly typically takes 20-30 minutes with the included tools. Follow these steps carefully:

- Unpacking:** Carefully remove the bike and all components from the packaging. Retain packaging for future transport or storage.
- Handlebar Installation:** Attach the handlebar to the stem. Ensure it is centered and tightened securely.
- Front Wheel Installation:** Install the front wheel, ensuring the disc brake rotor aligns correctly with the caliper. Tighten the quick-release skewer or axle nuts firmly.
- Pedal Installation:** Identify left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Apply a small amount of grease to the threads before installation.
- Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height. Ensure the minimum insertion mark on the seat post is not visible. Tighten the quick-release or bolt securely.
- Brake Adjustment:** Check both front and rear disc brakes. Ensure they engage smoothly and release completely without rubbing. Adjust cable tension if necessary.

- 7. **Gear Adjustment:** Verify smooth shifting across all 27 speeds. Fine-tune the front and rear derailleurs if gears are skipping or not engaging properly. Refer to online resources for detailed derailleur adjustment guides if needed.
- 8. **Tire Inflation:** Inflate tires to the recommended pressure indicated on the tire sidewall.



Figure 2.1: Overview of AVASTA Mountain Bike components, including quick-release seat, double aluminum alloy rims, high-ten frame, trigger 27-speed shifters, lock-out sports fork, and double disc brakes.

### 3. OPERATING INSTRUCTIONS

#### Riding Position

Adjust your saddle height so that your leg is almost fully extended with a slight bend in the knee when the pedal is at its lowest point. This ensures efficient pedaling and reduces strain.





Figure 3.1: Rider height guide for the AVASTA Mountain Bike, indicating suitable heights for 27.5-inch wheel sizes (5'4" to 6'2").

### **Gear Shifting (27 Speeds)**

Your bike is equipped with a 27-speed drivetrain (3 front gears, 9 rear gears) and trigger shifters for precise and smooth gear changes. Use lower gears for climbing hills and higher gears for flat terrain or descents.

- **Front Derailleur (Left Shifter):** Controls the 3 larger chainrings. Shift to a smaller chainring for easier pedaling

(uphill) and a larger chainring for faster speeds (downhill/flat).

- **Rear Derailleur (Right Shifter):** Controls the 9 smaller cogs on the rear wheel. Shift to a larger cog for easier pedaling and a smaller cog for faster speeds.
- Always pedal lightly when shifting gears to ensure smooth transitions and prevent damage to the drivetrain.



## Lock out suspension fork

With a lockout fork a full suspension system can be utilized when riding downhill and on rough terrain. With the flip of a single switch the suspension can be made more rigid for riding uphill or on pavement.

Figure 3.2: Close-up view of the 27-speed rear derailleur and cassette, illustrating the mechanism for precise gear changes.

### Braking (Dual Disc Brakes)

The AVASTA Mountain Bike features mechanical front and rear disc brakes for reliable stopping power in various conditions.

- **Front Brake (Left Lever):** Provides strong stopping power. Use with caution, especially on loose surfaces, to avoid skidding.
- **Rear Brake (Right Lever):** Offers stability and control. Use primarily for modulating speed and preventing rear wheel lock-up.
- Apply both brakes simultaneously for effective and controlled stopping. Practice braking in a safe area to familiarize

yourself with their response.

## Lock-Out Front Suspension

The front suspension fork features a lock-out mechanism. This allows you to stiffen the fork for more efficient pedaling on smooth terrain or uphill climbs, and unlock it for absorbing shocks on rough trails.



Figure 3.3: Close-up of the lock-out control on the front suspension fork. Turn to "Lock" for rigid performance on smooth surfaces or "Open" for shock absorption on rough terrain.

## 4. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your AVASTA Mountain Bike.

- **Cleaning:** Clean your bike regularly with mild soap and water. Avoid high-pressure washers directly on bearings.
- **Lubrication:** Keep the chain clean and lubricated. Apply bicycle-specific chain lubricant every 100-150 miles or after riding in wet conditions.

- **Tire Pressure:** Check tire pressure before each ride. Maintain pressure within the range specified on the tire sidewall.
- **Brake Inspection:** Regularly check brake pads for wear and replace them when necessary. Ensure brake levers feel firm and responsive.
- **Bolt Check:** Periodically check all bolts and fasteners (handlebars, seat post, wheels, crank arms) for tightness.
- **Suspension Fork:** Keep the stanchions (inner tubes) of the suspension fork clean.

## 5. TROUBLESHOOTING

| Problem                                      | Possible Cause  | Solution   |
|--|---|--|
| Gears are skipping or not shifting smoothly. | Derailleur adjustment needed, stretched cable, dirty chain. | Adjust derailleur limit screws and barrel adjusters. Clean and lubricate chain. Consult a bike mechanic if unsure. |
| Brakes feel spongy or ineffective.           | Loose brake cable, worn brake pads, contaminated rotor.     | Tighten brake cable. Replace worn brake pads. Clean rotors with disc brake cleaner.                                |
| Tires lose air quickly.                      | Puncture, loose valve stem, faulty tube.                    | Inspect tire for punctures. Tighten valve stem. Replace inner tube if punctured.                                   |
| Creaking noises while pedaling.              | Loose crank arms, bottom bracket issue, loose pedals.       | Check and tighten crank arm bolts and pedals. Lubricate pedal threads. Professional inspection may be required.    |

## 6. SPECIFICATIONS

| Feature                | Detail                              |
|------------------------|-------------------------------------|
| Bike Type              | Mountain Bike                       |
| Model Name             | AV-560                              |
| Brand                  | AVASTA                              |
| Age Range              | Adult                               |
| Number of Speeds       | 27                                  |
| Color                  | Black                               |
| Wheel Size             | 27.5 Inches                         |
| Frame Material         | Alloy Steel                         |
| Suspension Type        | Front (Lock-Out)                    |
| Brake Style            | Disc (Mechanical Front & Rear)      |
| Item Weight            | 36.4 Pounds (16.5 kg)               |
| Suggested Rider Height | 66.9 inch - 72.8 inch (170cm-185cm) |

## 7. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact

AVASTA customer service through their official website. Keep your proof of purchase for warranty claims.



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