

Bikepacking Repair Kit: Field Utility & Checklist

Goal: Turn a small failure into a quick stop. This utility is designed for rapid packing and trailside reference.

1. My Bike Specs (The Compatibility Check)

CRITICAL: Fill this out before every trip. The right tool/part is useless if it doesn't fit your bike.

| Component | Your Specification (Write Here) |
|-------------------------|---------------------------------|
| Tire Size | _____ |
| Valve Type | _____ |
| Chain Speed | _____ |
| Derailleur Hanger Model | _____ |
| Special Tool Needs | _____ |

2. Master Checklist: Starter vs. Remote

Use your phone's PDF editor or a pen to check the boxes.

Starter Kit (Day/Weekend Trips)

- ☐ **Multi-tool** (Must fit all your bolts)
- ☐ **Chain Breaker** (Integrated into multi-tool or separate)
- ☐ **Quick Links** (x2, matching chain speed)

- ☐ **Spare Tube** (x1-2, correct size/valve)
- ☐ **Tire Levers** (x2-3, durable)
- ☐ **Mini Pump** (Reliable)
- ☐ **Tire Boot** (or old tube section for sidewall cuts)
- ☐ **Zip Ties** (A few sizes)
- ☐ **Duct Tape** (Wrapped on pump/bottle)
- ☐ **Small Parts Bag** (Brightly colored)

Remote Upgrades (Week+ / Far from Help)

- ☐ **Spare Derailleur Hanger** (Bike-specific, **CRITICAL**)
- ☐ **Extra Quick Links** (Total 4-6)
- ☐ **Patch Kit** (Backup to tubes)
- ☐ **Spoke Option** (Wrench + 1-2 spare spokes)
- ☐ **Spare Brake Pads** (x1 set)
- ☐ **Small Chain Lube**
- ☐ **Extra Tape/Zip Ties**

Tubeless-Specific (Add to either kit)

- ☐ **Tire Plugs + Tool**
 - ☐ **Valve Core Tool**
 - ☐ **Sealant Top-up** (Small bottle)
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3. 🛠️ Trailside Cheat Sheet (The 60-Second Fix)

🔴 Scenario 1: Flat Tire

| Step | Action | Notes |
|---------------|--|---|
| 1. Stop | Get off the trail safely. | |
| 2. Tubeless? | YES: Plug the hole. Spin wheel to seal. | NO: Proceed to Step 3. |
| 3. Large Cut? | YES: Use a Tire Boot on the inside of the tire casing. | Prevents the tube from bulging out. |
| 4. Insert | Insert a Spare Tube . | Even tubeless riders use a tube for large cuts. |
| 5. Inflate | Pump up to riding pressure. | |

🔗 Scenario 2: Broken Chain

| Step | Action | Notes |
|-----------|--|--|
| 1. Assess | Find the broken link. | |
| 2. Remove | Use the Chain Breaker to push out the pin and remove the damaged section. | |
| 3. Rejoin | Use a Quick Link (matching your chain speed) to connect the two ends. | Do not try to re-use the old pin. |
| 4. Test | Slowly pedal to ensure the link is seated. | <i>If you removed too many links, you may lose the ability to use your largest cogs.</i> |

4. ⚠️ The Bail Protocol (When to Call for Help)

These are **Red Flags**. A field repair is not worth a safety risk.

- ☐ **Frame/Fork Damage:** Any crack or bend that compromises steering.

- ☐ **Brake Failure:** Both brakes fail and cannot be fixed in 5 minutes.
 - ☐ **Catastrophic Wheel Failure:** Severely buckled wheel or cracked rim.
 - ☐ **Exposure Risk:** Mechanical failure combined with rapidly worsening weather (blizzard, heat, etc.).
 - ☐ **Injury:** You or your partner are injured and cannot safely continue.
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5. Organization Tip: The Tiny Enablers

These are the most forgotten items that save trips. Keep them in a **separate, small, zippered bag** inside your main repair kit.

- **Quick Links**
 - **Spare Valve Cores**
 - **Valve Core Tool**
 - **Small amount of cash** (for emergency resupply)
 - **Derailleur Hanger** (if remote)
 - **Tiny Bag/Container** (to hold the above)
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A resource from [The Traveling Vagabond](#)