

Bass Sniper RFL Installation Guide

For Minn Kota Ulterra Trolling Motors

Contents:

- TurretHead
- TacBracket
- StealthPedals + wiring
- Shaft Segments (Socket Shaft + 3 Shaft Lengtheners)
- TracerTag
- Depth Clamp
- Mounting Bolts and Nuts (set of 2)

Assembly:

Phase 1: Bracket & Drive Mounting

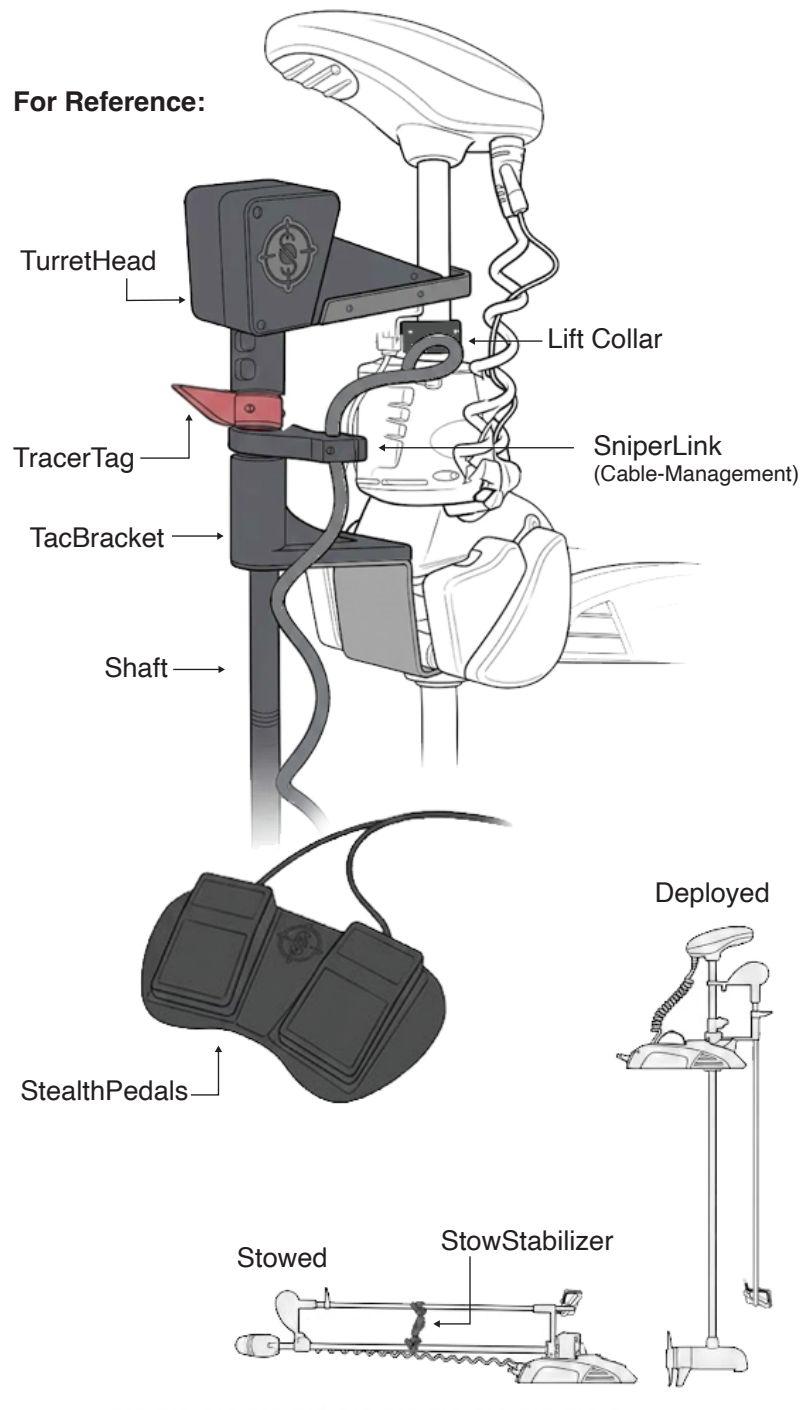
1. Prep the Ulterra: Deploy your motor. At the bottom of the lift system, locate the **aluminum bracket** (usually silver or black) that has two holes. Drop the two small bolts through these holes so the threads point toward the ground.

2. Install the TacBracket: Hold the TacBracket against the bottom of the transmission case. Thread the mounting nuts onto the bolts by hand.

- **Tip:** If the bolts spin, pull down on the nuts while tightening to help the bolt heads grab. Once finger-tight, snug them up with a wrench or socket.

3. Install the Depth Clamp: Remove the screws from the depth clamp and wrap it around the Ulterra shaft at your preferred height.

- **Note:** Make sure there is enough space, so the motor head doesn't hit the RFL head when rotating.
- **Pro Tip:** Wrap a layer of electrical tape around the shaft exactly where the clamp will sit. This creates a high-grip surface between the shaft and the clamp to prevent sliding.



4. Position the TurretHead: Pull the two pin bolts out of the TurretHead to remove its rail bracket. Slide the TurretHead and bracket around the Ulterra shaft, making sure it sits **directly on top** of the depth clamp you just installed.

5. Secure the TurretHead: Line up the rail bracket and reinsert the long bolts through the tightest available holes.

- **Note:** The wide bolt caps only fit on one side. Push the bolts through until you see the tips on the other side, then screw on the caps and tighten until the head is firmly locked to the shaft.

Phase 2: Shaft Assembly & Sizing

5. **Measure Length:** Make sure the shaft clears the prop when stowing and deploying and doesn't sit deep enough when deployed to put the transducer in the prop's path.

- *Note: You may cut the Shaft Bottom segment to length without voiding your warranty.*

6. **Assemble Shaft:** Twist the modular segments together firmly by hand. The Shaft Socket (with pre-installed TracerTag) should be at the top, followed by any Lengtheners to achieve preferred (and in some cases required) depth.

- **Pro Tip:** Use the "Tape Hack" here too! A single wrap of electrical tape under the TracerTag provides the extra friction needed to keep your directional aiming precise.

Phase 3: Stealth Pedal & Power Setup

6. **Placement:** Position the **Stealth Pedals** on your boat deck in a comfortable location for your foot.

7. **Power Connection:** Connect the wiring harness to your boat's **12V battery**.

- **Red Wire:** Positive (+) terminal
- **Black Wire:** Negative (-) terminal

8. **Cable Routing:** Route the pedal connector end toward the head of the trolling motor. Avoid "pinch points" in the Ulterra mount where the wire could be crushed during stowing/deploying. Best practice is to route it through your trolling motor's factory cable coil and bring it out at the top, near the motor head.

9. **Final Plug:** Connect the plug from the Stealth Pedals into the lead coming from the **TurretHead**.

Phase 4: Final Integration

10. **Install Downshaft:** Slide the assembled shaft (bottom-end first) down through the top of the **TacBracket**.

11. **Lock to Motor:** Press the **Shaft Socket** firmly into the bottom of the **TurretHead** until it snaps into place.

12. **Mount Sonar:** Attach your forward-facing sonar transducer to the shaft bottom.

- **CRITICAL:** Ensure the transducer is aligned to point in the exact same direction as the **TracerTag** on the upper shaft.
- **Pro Tip:** If running a **SniperLink**, route the transducer cable through the trolling motor coil too — in reverse, since it connects at the bottom. Easiest if done before it's run through the deck but alongside the trolling motor coil works fine too.

Recommended Accessories

The TurretHead can't be mounted tight to the shaft — that's what allows independent rotation. The StowStabilizer keeps the head and transducer from bouncing and stressing the shaft while stowed. SniperLink manages the transducer cable, keeping it clear of the deployment path so it doesn't pinch or snag. Both sold separately, both recommended.

On the Ulterra, the auto-deploy cycle puts more repeated stress on the shaft than a manual motor. Running without the StowStabilizer increases the risk of shaft twist and bracket wear over time — this pairing isn't optional on Ulterra installs.