

SuperATV PS-U-220

SuperATV EZ-Steer Power Steering Kit Instruction Manual

Model: PS-U-220

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your SuperATV EZ-Steer Power Steering Kit. This universal/adaptable 220W kit is designed to reduce steering effort and eliminate unwanted steering rack feedback in various off-road vehicles, including Mini Sprints, Buggys, Side by Sides, ATV's, Rock Crawlers, and Mowers. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.



Image: Overview of the SuperATV EZ-Steer Power Steering Kit components.

SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- Ensure the vehicle is turned off, and the battery is disconnected before beginning any installation work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Installation may require modification to the power steering kit or the machine. If you are not comfortable with fabrication, welding, or electrical work, seek professional assistance.
- Verify all connections are secure and watertight after installation to prevent electrical issues.

- Test the steering system thoroughly in a safe, open area before full operation.

PACKAGE CONTENTS

The SuperATV EZ-Steer Power Steering Kit (PS-U-220) includes the following components:

- **220W Motor:** The electric motor that provides power assistance to the steering.



Image: The 220-watt electric power steering motor.

- **ECU and Wiring Harness:** The Electronic Control Unit and associated wiring for system operation.

Power Steering Control Box With Injection Molded Seal And Watertight Connections



Image: The power steering control box with molded seal and watertight connections.

Improved Wiring Harness With Watertight Connectors



Image: The improved wiring harness with watertight connectors.

- **Universal Bracket:** A mounting bracket for the power steering unit.

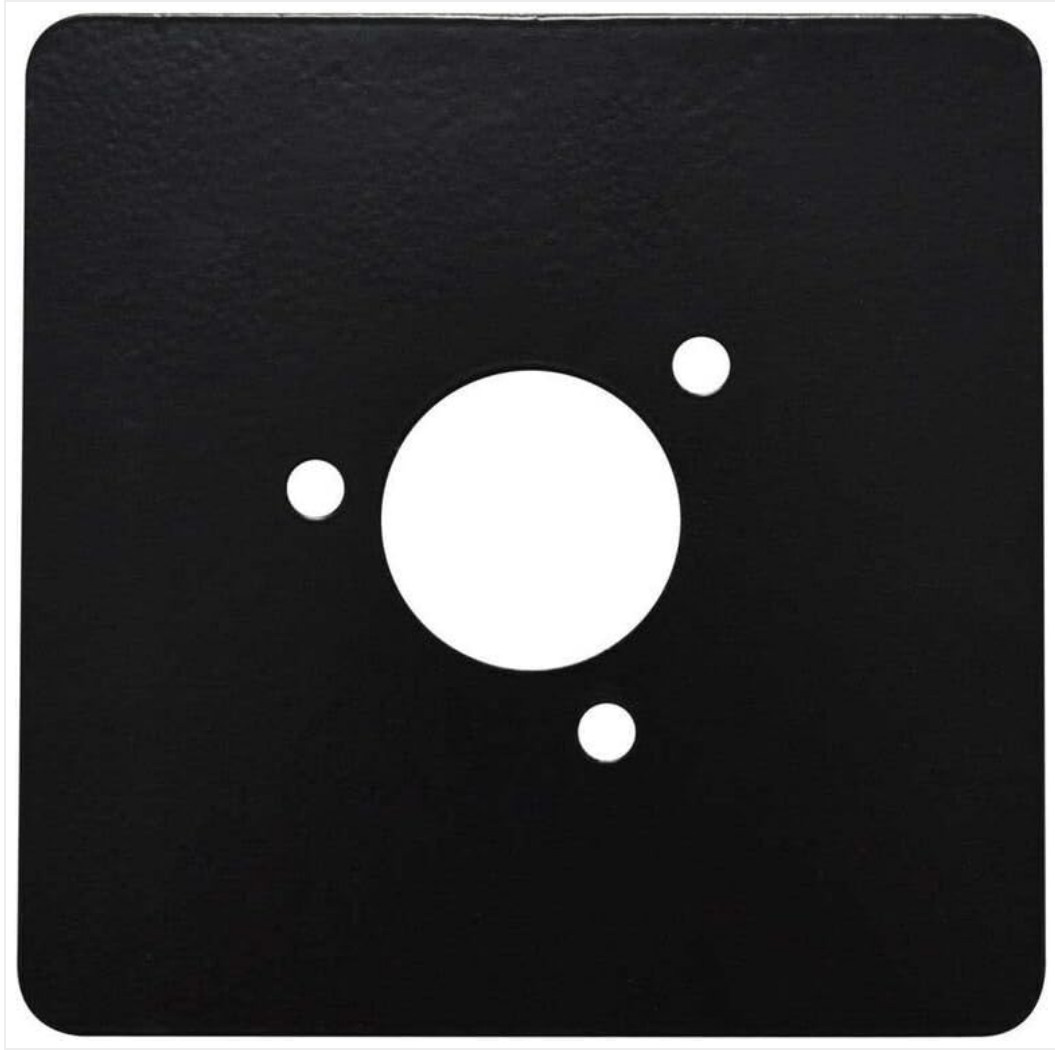


Image: The universal mounting bracket for the power steering unit.

- **Upper and Lower Steering Shafts:** Components for connecting the power steering unit to the vehicle's steering system.
- **2 U-Joints:** Universal joints that attach to the input and output shafts.



Image: The upper and lower steering shafts with attached U-joints.

SETUP AND INSTALLATION

NOTE: Modification to the power steering kit or the machine may be required for proper installation. This kit is universal/adaptable, meaning some fabrication (cutting, welding, etc.) may be necessary to integrate it with your specific vehicle's steering column and frame.

General Installation Steps:

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the battery. Allow the engine to cool if recently operated.
2. **Access Steering Column:** Remove any necessary body panels or components to gain clear access to the vehicle's steering column.
3. **Steering Shaft Modification:** Determine the optimal location for the EZ-Steer unit. This will likely involve cutting the existing steering shaft and integrating the provided upper and lower steering shafts and U-joints. Ensure precise measurements and clean cuts.
4. **Mounting the Unit:** Use the universal bracket to securely mount the 220W motor and ECU. The mounting location should be robust, clear of moving parts, and protected from excessive heat or moisture. Fabrication of custom mounting points on the vehicle's frame may be necessary.
5. **Electrical Connections:** Connect the ECU and wiring harness according to the included wiring diagram (not provided in this general manual, refer to specific product packaging for detailed diagrams). Ensure all connections are tight and use the watertight connectors provided. Route wiring away from hot or moving parts.
6. **Reassembly and Testing:** Reassemble any removed vehicle components. Reconnect the battery. Before driving, perform static and low-speed steering tests in a safe, open area to ensure the power steering functions correctly and there are no binding or unusual noises.

For detailed, vehicle-specific installation guidance, it is recommended to consult online resources, forums, or professional

mechanics experienced with universal power steering kit installations.

OPERATING INSTRUCTIONS

Once properly installed, the SuperATV EZ-Steer Power Steering Kit operates automatically to provide steering assistance.

- The system activates when the vehicle's ignition is turned on.
- It continuously monitors steering input and vehicle speed to provide optimal assistance, reducing the effort required to turn the steering wheel.
- The system is designed to eliminate unwanted steering rack feedback, providing a smoother and more controlled steering experience, especially over rough terrain.
- No user adjustments are typically required during operation.

MAINTENANCE

The SuperATV EZ-Steer Power Steering Kit is designed for minimal maintenance. However, regular checks can ensure its longevity and optimal performance.

- **Periodic Inspection:** Annually or after significant off-road use, inspect all mounting bolts, electrical connections, and wiring for tightness, corrosion, or damage.
- **Cleanliness:** Keep the ECU and motor free from excessive dirt, mud, and debris. While designed with watertight connections, extreme conditions can still affect performance.
- **Shaft and U-Joints:** Check the steering shafts and U-joints for any signs of wear, looseness, or corrosion. Lubricate U-joints if applicable and recommended by the vehicle manufacturer.
- **Battery Health:** Ensure your vehicle's battery is in good condition, as a weak battery can affect the performance of electrical accessories.

TROUBLESHOOTING

If you experience issues with your EZ-Steer Power Steering Kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power steering assistance.	Loose electrical connection, blown fuse, faulty ECU, or motor issue.	Check all wiring connections for tightness. Inspect the fuse in the power circuit. If issues persist, contact SuperATV support.
Steering feels stiff or inconsistent.	Binding in steering components, low battery voltage, or internal unit issue.	Inspect mechanical steering components for binding. Check vehicle battery voltage. Ensure proper installation and alignment.
Unusual noises from the power steering unit.	Loose mounting, internal component wear, or foreign object interference.	Verify the unit is securely mounted. Inspect for any debris. If noise persists, discontinue use and contact support.
Excessive play in steering.	Loose U-joints, worn steering shaft components, or improper installation.	Inspect all U-joints and shaft connections for tightness. Re-evaluate installation if play is significant.

If you cannot resolve the issue using these steps, please contact SuperATV customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Model Number	PS-U-220
Power Output	220 Watts
Voltage	12 Volts
Item Weight	18 pounds
Package Dimensions	16.81 x 16.5 x 6.81 inches
Compatibility	Universal/Adaptable for Mini Sprints, Buggys, Rock Crawlers, Mowers, and more.

WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please contact SuperATV directly. You can typically find contact information on their official website or through your purchase documentation. SuperATV also offers various protection plans for extended coverage. Details on these plans can be found where the product was purchased or on the SuperATV website.

SuperATV Store: [Visit the SuperATV Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question