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Predator K117

Predator K117 10KW Antenna User Manual

Model: K117

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Predator K117 10KW Antenna. Designed for robust performance, this antenna features a 0.38 x 24 inch coil, a 17-inch shaft, and a 58-inch whip, making it suitable for high-power radio communication applications. Please read this manual thoroughly before use to ensure proper setup and optimal performance.



Image: The Predator K117 10KW Antenna, showcasing its silver finish, coiled section, and overall robust construction. This image provides a visual reference for the antenna's design and components.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your Predator K117 antenna. Follow these steps carefully:

1. **Mounting Location:** Select a sturdy mounting point on your vehicle or structure that provides a clear line of sight and minimizes obstructions. Ensure the mounting surface can support the antenna's weight and withstand environmental conditions.
2. **Antenna Assembly:**
 - Carefully unpackage all components: the 17-inch shaft, the 58-inch whip, and the coiled base.
 - Attach the coiled base to your chosen mount. Ensure a secure, tight connection to prevent movement during operation.
 - Thread the 17-inch shaft into the coiled base. Hand-tighten initially, then use a wrench if necessary, but avoid over-tightening.
 - Insert the 58-inch whip into the top of the 17-inch shaft. Ensure it is fully seated.
3. **Coaxial Cable Connection:** Connect a high-quality coaxial cable (not included) from your radio to the antenna's base connector. Ensure the connection is clean, dry, and securely tightened to prevent signal loss.
4. **Grounding:** For optimal performance and safety, ensure your antenna system is properly grounded. Consult a professional if you are unsure about grounding procedures for your specific application.
5. **SWR Tuning:** After installation, it is essential to tune the antenna for optimal Standing Wave Ratio (SWR). Use an SWR meter to adjust the whip length until the SWR is as close to 1:1 as possible across your desired frequency range. High SWR can damage your radio equipment.

OPERATING INSTRUCTIONS

The Predator K117 antenna is designed for high-power radio communication. Follow these guidelines for safe and effective operation:

- **Power Handling:** This antenna is rated for 10KW (10,000 watts) of power. Ensure your radio's output power does not exceed this rating to prevent damage to the antenna or radio.
- **Frequency Range:** The antenna is designed for specific radio frequencies. Refer to your radio's manual and the antenna's specifications to ensure compatibility.
- **SWR Monitoring:** Periodically check your SWR, especially after any changes to the antenna setup or operating environment. Significant changes in SWR may indicate an issue.
- **Environmental Considerations:** While robust, extreme weather conditions (e.g., severe ice, high winds) can affect antenna performance and integrity. Take precautions as necessary.

MAINTENANCE

Regular maintenance will help ensure the longevity and optimal performance of your Predator K117 antenna:

- **Visual Inspection:** Periodically inspect the antenna for any signs of physical damage, corrosion, or loose connections. Check the whip, shaft, coil, and mounting hardware.
- **Connection Integrity:** Ensure all coaxial cable connections are clean, dry, and tight. Corrosion on connectors can degrade performance.
- **Cleaning:** Clean the antenna with a mild soap and water solution. Avoid abrasive cleaners or solvents that could damage the finish.
- **Whip Condition:** Ensure the whip is straight and free from kinks or bends, which can affect tuning and performance.

TROUBLESHOOTING

If you experience issues with your Predator K117 antenna, consider the following common problems and solutions:

| Problem | Possible Cause | Solution |
|-----------------------------|--|---|
| High SWR Reading | <ul style="list-style-type: none">◦ Improper whip length◦ Poor grounding◦ Damaged coaxial cable or connectors◦ Antenna not properly mounted | <ul style="list-style-type: none">◦ Adjust whip length for optimal SWR.◦ Verify and improve grounding.◦ Inspect and replace faulty cables/connectors.◦ Ensure antenna is securely mounted. |
| Poor Transmission/Reception | <ul style="list-style-type: none">◦ High SWR◦ Obstructions near antenna◦ Faulty radio equipment◦ Incorrect frequency setting | <ul style="list-style-type: none">◦ Tune SWR.◦ Relocate antenna or clear obstructions.◦ Test radio with a known good antenna.◦ Verify radio frequency settings. |
| Physical Damage to Antenna | <ul style="list-style-type: none">◦ Impact or stress◦ Environmental exposure | <ul style="list-style-type: none">◦ Inspect for bends, cracks, or loose parts. Replace damaged components if necessary.◦ Ensure proper mounting to withstand conditions. |

If problems persist after attempting these solutions, contact Predator customer support or a qualified technician.

SPECIFICATIONS

- **Model:** K117
- **Brand:** Predator
- **Power Rating:** 10KW (10,000 Watts)
- **Antenna Type:** Mobile/Base Radio Antenna
- **Shaft Length:** 17 inches
- **Whip Length:** 58 inches
- **Coil Size:** 0.38 x 24 inches
- **Color:** Silver
- **Number of Channels:** 1
- **Product Dimensions (Overall):** Approximately 58"L x 4"W x 59"H (Note: Height may vary slightly based on whip adjustment)
- **Weight:** Approximately 11 lbs
- **UPC:** 652118391664

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Predator K117 antenna, please refer to the manufacturer's official website or contact their customer service department directly. Keep your purchase receipt as proof of purchase for any warranty claims.



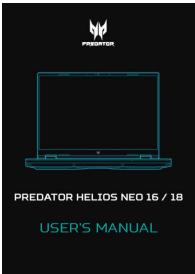


Manufacturer: Predator

Contact Information: Please visit the official Predator website for the most current contact details, including phone numbers and email addresses for customer support.

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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - K117

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|---|--|
|  | <p>Predator 224cc OHV Horizontal Shaft Gas Engine Owner's Manual & Safety Instructions</p> <p>Comprehensive owner's manual and safety guide for the Predator 224cc OHV Horizontal Shaft Gas Engine. Covers setup, operation, maintenance, troubleshooting, and warranty information.</p> |
|  | <p>Predator 224cc OHV Horizontal Shaft Gas Engine Owner's Manual & Safety Instructions</p> <p>This owner's manual and safety instructions provides detailed information for the Predator 224cc OHV Horizontal Shaft Gas Engine, including specifications, setup, operation, maintenance, troubleshooting, and warranty details.</p> |
|  | <p>Predator Helios Neo 16 / 18 User's Manual</p> <p>This user manual provides comprehensive instructions and guidance for the Acer Predator Helios Neo 16 and 18 gaming laptops, covering setup, care, features, troubleshooting, and more.</p> |
|  | <p>Predator 459cc OHV Horizontal Shaft Gas Engine Owner's Manual & Safety Instructions (Model 58383)</p> <p>This manual provides comprehensive safety instructions, setup procedures, operating guidelines, maintenance schedules, troubleshooting tips, and warranty information for the Predator 459cc OHV Horizontal Shaft Gas Engine, Model 58383, manufactured by Harbor Freight Tools.</p> |
|  | <p>Predator Galea 300 Gaming Headset Quick Start Guide</p> <p>Quick start guide for the Predator Galea 300 gaming headset by PREDATOR (Acer), covering setup, specifications, usage, FAQs, cautions, environment details, and compliance information. Includes EU, FCC, and Russian certifications.</p> |

Predator 13000 Instructions

1. Remove the generator cap and set it aside.



2. Remove the fuel tank cap and set it aside.



[Predator 13000 Generator Auxiliary Gas Tank Installation Guide](#)

Detailed, step-by-step installation guide for an auxiliary gas tank designed for the Predator 13000 Tri-Fuel generator, featuring clear instructions and textual descriptions of visual aids.