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› Diamond Antenna HRKS Adhesive Backed Mount Instruction Manual

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Diamond Antenna HRKS Adhesive Backed Mount Instruction Manual

Model: HRKS

1. INTRODUCTION

The Diamond Antenna HRKS Adhesive Backed Mount provides a non-invasive solution for mounting mobile antennas on various surfaces. This mount is designed for applications where drilling holes is not desired or feasible, offering a secure attachment to glass, fiberglass, metal, and other smooth, flat materials. Its adjustable design allows for precise antenna positioning, and it includes necessary coaxial cable and connectors for convenience.

2. SAFETY INFORMATION

- Ensure the mounting surface is clean, dry, and free of debris before application to ensure proper adhesion.
- Do not mount the antenna in a location that obstructs the driver's view or interferes with vehicle safety systems.
- Verify that the antenna chosen is compatible with the mount and does not exceed the recommended weight or length for the adhesive bond.
- Route coaxial cables carefully to avoid pinching, sharp bends, or interference with moving parts.
- Always disconnect power to radio equipment before making or breaking antenna connections.

3. PACKAGE CONTENTS

The Diamond Antenna HRKS Adhesive Backed Mount package includes the following components:

- HRKS Adhesive Backed Mount unit
- 13.5 feet (approximately 4.1 meters) of RG-316/B coaxial cable, terminated with an SMA Male Connector
- PL-259 adapter
- Hex key for adjustments
- Protective cap



Image 1: All components included with the Diamond Antenna HRKS Adhesive Backed Mount.

4. SETUP AND INSTALLATION

4.1 Surface Preparation

1. Select a clean, flat, and smooth surface for mounting. Ensure the area is free from wax, grease, dirt, or moisture.
2. Clean the chosen surface thoroughly with an alcohol-based cleaner and allow it to dry completely.
3. Test the placement of the mount to ensure the antenna will have adequate clearance and optimal positioning.

4.2 Applying the Mount

1. Carefully peel the protective backing from the adhesive pads on the HRKS mount. Avoid touching the adhesive surface.
2. Align the mount precisely on the prepared surface.
3. Press the mount firmly onto the surface for at least 30 seconds, applying even pressure across the entire adhesive area.
4. Allow the adhesive to cure for a minimum of 24 hours before attaching an antenna or exposing it to stress.

Optimal adhesion is achieved after 72 hours.

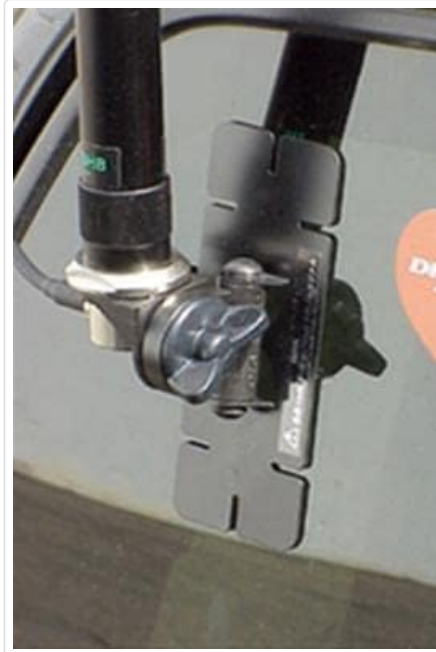


Image 2: Example of the HRKS mount installed on a vehicle window.

4.3 Antenna Attachment

1. The HRKS mount is designed to accommodate PL-259 style mount antennas.
2. Insert the base of your compatible antenna into the mount.
3. Use the provided hex key to tighten the set screws on the mount, securing the antenna firmly in place.
4. Adjust the antenna's vertical position using the mount's two-plane adjustability. Tighten all fasteners once the desired angle is achieved.



Image 3: Detail of the HRKS mount's antenna attachment mechanism.

4.4 Coaxial Cable Connection

1. The included RG-316/B coaxial cable is terminated with an SMA Male connector.
2. If your radio requires a PL-259 connection, use the provided PL-259 adapter to convert the SMA Male connector.
3. Connect the SMA Male end (or the PL-259 adapter) to your radio or transceiver.
4. Route the coaxial cable carefully to prevent damage. Use cable clips or ties to secure it, avoiding sharp edges or areas where it might be pinched.



Image 4: Coaxial cable with SMA connector and PL-259 adapter.

5. OPERATING INSTRUCTIONS

Once the Diamond Antenna HRKS mount and antenna are securely installed and connected to your radio equipment, operation is straightforward. The mount itself is a passive component that holds the antenna in place. Ensure your radio equipment is properly configured for the attached antenna's frequency range and characteristics.

- **Antenna Compatibility:** This mount is suitable for antennas designed as 'no ground' types, such as the recommended Diamond NR770HA and NR770HB, Comet SS-5, or Comet SS680.
- **Antenna Tuning:** Always check the Standing Wave Ratio (SWR) of your antenna system after installation and before transmitting to prevent damage to your radio.

6. MAINTENANCE

- **Cleaning:** Periodically clean the mount and surrounding area with a mild, non-abrasive cleaner to remove dirt and grime. Avoid harsh chemicals that could degrade the adhesive.
- **Inspection:** Regularly inspect the adhesive bond for any signs of lifting or degradation. Check all connections (antenna to mount, cable to radio) for tightness and corrosion.
- **Antenna Removal:** If the mount needs to be removed, carefully cut the underlying adhesive with a thin, strong line (e.g., fishing line) to separate the mount from the surface. Replacement adhesive pads may be available for reinstallation.

7. TROUBLESHOOTING

- **Mount Not Adhering:** Ensure the surface was thoroughly cleaned and dry before application. Allow sufficient

curing time (24-72 hours) before stressing the mount. Extreme temperatures or humidity during installation can affect adhesion.

- **Poor Signal Performance:** Check all cable connections for tightness. Verify the antenna is properly tuned for the operating frequency. Ensure the antenna is not obstructed by vehicle bodywork or other objects.
- **Antenna Wobbles:** Re-tighten the set screws on the mount that secure the antenna. Ensure the antenna base is fully seated in the mount.

8. SPECIFICATIONS

Feature	Specification
Model Number	HRKS
Mounting Type	Adhesive Backed
Compatible Surfaces	Glass, Fiberglass, Metal, other flat surfaces
Coaxial Cable	13.5' (approx. 4.1m) RG-316/B
Cable Connector (Mount End)	SMA Male
Included Adapter	PL-259
Antenna Compatibility	PL-259 style mount antennas
Recommended Antennas	NR770HA, NR770HB
Item Weight	13 ounces (approx. 368 grams)
Package Dimensions	8 x 6 x 4 inches (approx. 20.3 x 15.2 x 10.2 cm)
Manufacturer	Diamond Antenna

9. WARRANTY INFORMATION

The Diamond Antenna HRKS Adhesive Backed Mount comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage resulting from improper installation, misuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, warranty inquiries, or questions regarding the Diamond Antenna HRKS Adhesive Backed Mount, please contact your authorized Diamond Antenna dealer or visit the official Diamond Antenna website for support resources.

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