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MINELAB V12 Coil

MINELAB V12 Double-D 12-inch Coil Instruction Manual

For Vanquish Series Metal Detectors

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your MINELAB V12 Double-D 12-inch search coil. This coil is designed to enhance the performance of MINELAB Vanquish series metal detectors, offering improved ground coverage and depth capabilities. Please read these instructions carefully before use to ensure optimal performance and longevity of your equipment.

2. PRODUCT OVERVIEW

The MINELAB V12 Double-D 12-inch coil is a robust accessory for your Vanquish metal detector. It features Double-D coil technology and is fully waterproof, making it suitable for various detecting environments, including wet conditions. A protective skid plate is included to safeguard the coil from abrasion and impact during use.



Figure 1: Top-down view of the MINELAB V12 Double-D 12-inch search coil, showing its elliptical shape and internal structure.



Figure 2: Angled view of the V12 coil, highlighting the cable connection point and the 'V12' branding.

Key Features:

- **Enhanced Detecting:** Standard coil for Vanquish 540, compatible with Vanquish 340 and 440 models for increased ground coverage and depth.
- **Multi-IQ Technology:** Leverages MINELAB's Multi-IQ technology, allowing the detector to operate on multiple frequencies simultaneously for optimal performance across all metal types and ground conditions.
- **Waterproof Design:** Fully submersible, enabling detection in wet environments such as beaches and shallow water.

- **12-inch Size:** The larger 12-inch diameter allows for greater ground coverage per sweep and improved depth penetration compared to smaller coils.
- **Protective Skid Plate:** Includes a replaceable skid plate to protect the coil from wear and tear.

3. SETUP

Follow these steps to properly attach the V12 Double-D 12-inch coil to your MINELAB Vanquish metal detector.

1. **Power Off Detector:** Ensure your Vanquish metal detector is powered off before connecting or disconnecting any components.
2. **Remove Existing Coil (if applicable):** If another coil is attached, carefully unscrew the coil bolt and disconnect the coil cable from the control box.
3. **Attach V12 Coil:** Align the V12 coil's mounting bracket with the lower shaft of your detector. Insert the coil bolt through the holes in the bracket and the shaft. Secure it with the provided nut, ensuring it is hand-tightened sufficiently to prevent the coil from wobbling, but do not overtighten.
4. **Connect Cable:** Carefully route the coil cable up the shaft, securing it with the provided clips or Velcro straps to prevent snagging. Plug the coil connector firmly into the corresponding port on the detector's control box. Ensure the connection is clean and dry.
5. **Check Skid Plate:** Verify that the protective skid plate is securely attached to the bottom of the coil. If it becomes worn, replace it to protect the coil.

4. OPERATING INSTRUCTIONS

The V12 Double-D 12-inch coil is designed to integrate seamlessly with your Vanquish detector's Multi-IQ system. For detailed operating instructions specific to your Vanquish model, please refer to your detector's main user manual.

General Usage Tips:

- **Ground Balance:** Perform a ground balance procedure as outlined in your detector's manual after attaching the new coil and before beginning your search. This optimizes performance for local ground conditions.
- **Sweep Pattern:** Maintain a consistent, overlapping sweep pattern with the coil parallel to the ground. The 12-inch size allows for wider sweeps, covering more area efficiently.
- **Sensitivity Settings:** Adjust your detector's sensitivity based on ground conditions. Higher sensitivity can increase depth but may also lead to more false signals in mineralized ground.
- **Target Identification:** Pay attention to the audio and visual target identification provided by your Vanquish detector. The Double-D coil's design can offer good target separation.
- **Waterproof Use:** When detecting in water, ensure all connections are secure and the control box of your detector (if not fully submersible) is protected from water ingress.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your V12 coil.

- **Cleaning:** After each use, especially in wet or dirty conditions, clean the coil with fresh water and a soft cloth. Avoid abrasive cleaners or solvents.

- **Skid Plate:** Regularly inspect the skid plate for wear or damage. Replace it if necessary to protect the coil's housing.
- **Cable Care:** Avoid kinking or sharply bending the coil cable. Secure it properly to the shaft to prevent strain on the connector.
- **Storage:** Store the coil in a clean, dry place, away from extreme temperatures and direct sunlight.

6. TROUBLESHOOTING

If you encounter issues with your V12 coil, consider the following common solutions:

- **False Signals/Chatter:**
 - Ensure the coil cable is securely connected and not loose.
 - Check for electromagnetic interference (EMI) from power lines, cell phones, or other electronic devices. Reduce sensitivity if necessary.
 - Perform a ground balance.
- **Poor Depth/Sensitivity:**
 - Verify the coil is properly ground balanced.
 - Increase sensitivity settings on your detector, if ground conditions allow.
 - Ensure the coil is sweeping parallel to the ground.
- **No Detection:**
 - Confirm the coil cable is fully inserted and secured.
 - Check your detector's settings to ensure it is in a search mode and not in pin-point or standby.
 - Test with a known metal object.

If problems persist, consult your MINELAB Vanquish detector's main manual or contact MINELAB customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	MINELAB
Model Number	V12 Coil
Coil Type	Double-D (DD)
Coil Size	12 inches
Compatibility	MINELAB Vanquish Series (340, 440, 540)
Waterproof Rating	Yes (Submersible)
Material	Plastic
Color	Black
Item Weight	1.2 pounds

Feature	Specification
Product Dimensions	9.1 x 9.1 x 9.1 inches (approximate, as listed)
Included Accessories	Skidplate

8. WARRANTY AND SUPPORT

MINELAB products are manufactured to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions applicable to your V12 coil, please refer to the documentation included with your original purchase or visit the official MINELAB website. For technical support or service inquiries, please contact MINELAB customer service through their official channels.