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> GARDIGO 3-in-1 Marten Repeller with Electric Shock, Ultrasound, and Flashlight (Model 78520) Instruction Manual

Gardigo 78520

GARDIGO 3-in-1 Marten Repeller

Model: 78520 | Brand: Gardigo

1. INTRODUCTION

The GARDIGO 3-in-1 Marten Repeller is designed to protect your vehicle's engine compartment from damage caused by martens. This device employs a combination of ultrasonic sound, LED flashlight, and high-voltage electric shock to deter martens effectively. It is specifically engineered for automotive use, connecting directly to your car's battery and featuring an intelligent vibration sensor for automatic operation.



Image: A marten positioned under a car, illustrating the common area where these animals seek shelter and can cause damage.



Image: A close-up of a marten biting through a car cable, demonstrating the type of damage the repeller aims to prevent.

2. SAFETY INSTRUCTIONS

- Read all instructions carefully before installation and use.
- Disconnect the car battery's negative terminal before installing the device to prevent electrical shock or damage to the vehicle's electrical system.
- The device operates with high voltage (approx. 400V) on the contact plates. Avoid touching the contact plates when the device is active.
- Ensure all wiring is securely connected and insulated to prevent short circuits.
- Install the device and contact plates in locations where they will not interfere with moving engine parts or pose a risk to maintenance personnel.
- Keep out of reach of children and pets.
- The device is IP65 rated for dust and splash water protection, but avoid direct high-pressure water jets.

3. PRODUCT OVERVIEW

3.1 Key Features

- **3-in-1 Marten Protection:** Combines ultrasonic sound, LED flashlight, and high-voltage electric shock.
- **Ultrasonic Sound:** Emits alternating frequencies (12–24 kHz) to prevent martens from habituating.
- **High Voltage:** Four contact plates deliver approximately 400V for direct deterrence.
- **Engine and Cable Protection:** Designed to prevent damage to cables, hoses, and insulation.
- **Car Battery Connection:** Directly connects to the vehicle's 12V battery.
- **Integrated Vibration Sensor:** Automatically switches off when the engine starts and reactivates when the vehicle is parked.
- **Battery Protection:** Automatic shutdown if battery voltage drops below 11.4V to prevent full discharge.
- **Durable Design:** IP65 rated for protection against dust and splashing water.

3.2 Components

- Main Control Unit
- 4 High-Voltage Contact Plates
- Connection Cables (for battery and contact plates)



Image: The main control unit of the marten repeller, showing its compact design and power switch, installed within a car's engine compartment.

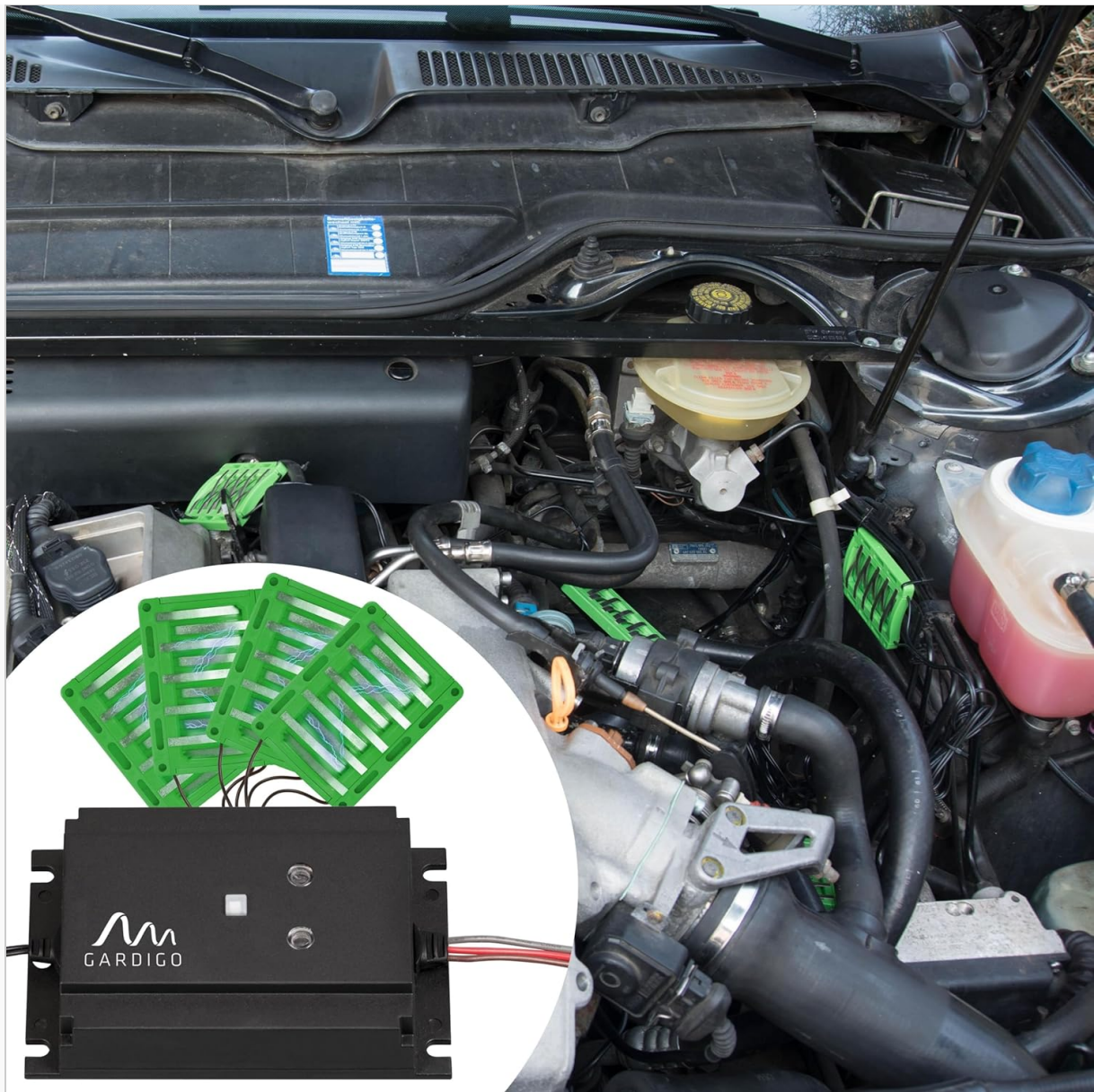


Image: The main unit and several green high-voltage contact plates strategically placed within the engine bay for comprehensive protection.

4. INSTALLATION

1. **Prepare the Engine Compartment:** Ensure the engine compartment is clean and free of marten scent. It is recommended to clean the engine bay thoroughly before installation.
2. **Disconnect Battery:** Disconnect the negative terminal of your car battery before proceeding with any electrical connections.
3. **Mount the Main Unit:** Choose a dry, secure location in the engine compartment for the main control unit, away from extreme heat, moving parts, and direct water spray. Use cable ties or screws to fix it firmly.
4. **Connect to Car Battery:** Connect the red wire of the repeller to the positive (+) terminal of your car battery and the black wire to the negative (-) terminal. Ensure a secure connection.
5. **Position Contact Plates:** Strategically place the four high-voltage contact plates in areas where martens are likely to enter or cause damage, such as near cables, hoses, and insulation. Ensure the plates are not in contact with moving engine parts or hot surfaces. Use cable ties or adhesive pads for secure mounting.
6. **Connect Contact Plates:** Connect the wires from the contact plates to the designated ports on the

main control unit.

- 7. Reconnect Battery:** Once all connections are secure and verified, reconnect the negative terminal of your car battery.
- 8. Test Functionality:** The device should activate automatically after a short delay once the car is parked and the engine is off. Look for indicator lights on the main unit.

Your browser does not support the video tag.

Video: A demonstration of the GARDIGO marten repeller's features and installation process in a vehicle engine compartment.

5. OPERATION

The GARDIGO Marten Repeller operates automatically. Once connected to the car battery, its integrated vibration sensor detects when the vehicle is parked and the engine is off. The device will then activate, emitting ultrasonic sounds, flashing LED lights, and energizing the high-voltage contact plates.

When the engine starts, the vibration sensor detects movement and automatically deactivates the repeller to prevent interference with vehicle operation and ensure safety. The device will reactivate once the vehicle is stationary again for a period.

An internal battery monitoring system ensures that the device automatically shuts down if the car battery voltage drops below 11.4V, preventing excessive discharge and ensuring your car can start.



3-Fach-Abwehrsystem
mit Hochspannung,
Frequenz und Blendlicht



Sensor schaltet
Gerät ein, wenn das
Fahrzeug parkt



Spritzwassergeschützt
und staubdicht (IP 65)

Image: A parked car with a visual indicator showing the device's sensor detecting the vehicle is stationary, triggering

activation.

6. MAINTENANCE

- Periodically check the device and contact plates for dirt or debris. Clean with a dry cloth if necessary.
- Ensure all cable connections remain secure and free from corrosion.
- Inspect the contact plates for any damage. Replace if necessary.
- Do not use harsh chemicals or abrasive cleaners on the device.

7. TROUBLESHOOTING

7.1 Device Not Activating

- **Check Battery Connection:** Ensure the red and black wires are correctly and securely connected to the car battery terminals.
- **Check Car Battery Voltage:** If the car battery voltage is below 11.4V, the device will not activate. Charge your car battery.
- **Verify Engine Off:** The device only activates when the engine is off and the vehicle is stationary.
- **Inspect Fuse:** Check if the inline fuse (if present) is intact. Replace if blown.

7.2 Martens Still Present

- **Check Contact Plate Placement:** Ensure contact plates are strategically placed in areas of marten activity. Adjust their position if needed.
- **Clean Engine Compartment:** Martens are attracted by scent. Thoroughly clean the engine compartment to remove any existing marten scent.
- **Verify High Voltage:** Ensure the high-voltage function is active (if applicable, check indicator lights).
- **Obstructions:** Ensure no objects are blocking the ultrasonic sound or LED flashlight.

8. TECHNICAL SPECIFICATIONS

Brand	Gardigo
Model Number	78520
Product Dimensions (Main Unit)	12 x 7.5 x 3.5 cm
Item Weight	270 g
Power Supply	12V Car Battery
High Voltage	Approx. 400V (on contact plates)
Ultrasonic Frequency	12–24 kHz (alternating)
Protection Rating	IP65 (dust and splash water protected)
Automatic Shutdown (Battery)	Below 11.4V
Assembly Required	No

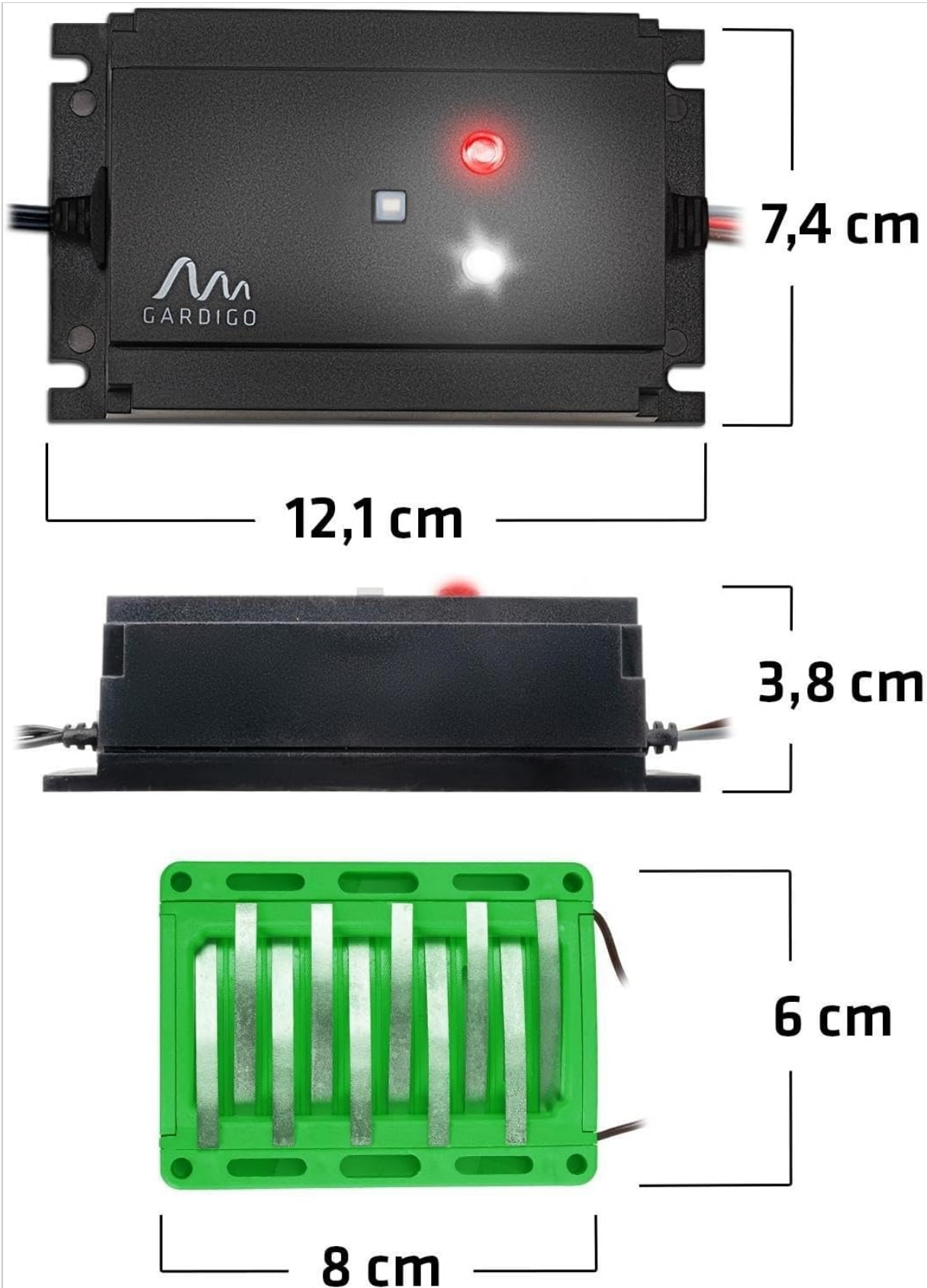


Image: Detailed dimensions of the main control unit and the high-voltage contact plates.

9. WARRANTY AND SUPPORT

This GARDIGO product is developed by a German brand, ensuring quality and reliability. For warranty claims, technical support, or any questions regarding the product, please contact your retailer or the official Gardigo customer service. Please refer to your purchase documentation for specific warranty terms and contact information.

