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> EMPHASER EM-VWF4 2-Way Plug & Play Component Speaker System for VW T6.1 Instruction Manual

EMPHASER EM-VWF4

EMPHASER EM-VWF4 2-Way Plug & Play Component Speaker System

Instruction Manual for Volkswagen T6.1

1. INTRODUCTION

The EMPHASER EM-VWF4 UNIVERSE series 2-way 15.5 cm (6-inch) Plug & Play component speaker system is designed for easy replacement of factory speakers in Volkswagen T6.1 vans and campers. This system delivers detailed sound with rich bass and ensures a perfect fit, connecting directly via the vehicle's original plugs. The system's 2-way design has been meticulously tuned for perfect phase alignment between components, ensuring a transparent soundstage with desired depth. This optimization was achieved through precise in-vehicle measurements and complex simulation software.

2. SAFETY INSTRUCTIONS

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent short circuits.
- Ensure all wiring is correctly routed and secured to prevent damage from moving parts or heat.
- Do not modify the product. Unauthorized modifications can lead to malfunction, damage, or void the warranty.
- Wear appropriate safety gear, such as gloves and eye protection, during installation.
- If you are unsure about any part of the installation process, consult a qualified professional.
- Keep the product away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Please check that all items are present in the package:

- 2 x Woofers
- 2 x Tweeters
- 2 x Crossover Cables
- 8 x Rivets



Image 1: Overview of the EMPHASER EM-VWF4 2-Way Component Speaker System components.

4. SETUP AND INSTALLATION

The EM-VWF4 system is designed for Plug & Play installation, utilizing the vehicle's original connections for a straightforward upgrade.

4.1 Woofer Installation

The 15.5 cm woofer features an aluminum membrane, providing detailed and precise music reproduction with low distortion. Its powerful ferrite magnet ensures deep bass down to 58 Hz. The 12 dB/octave soft crossover technology is integrated directly onto the woofer basket, simplifying installation into the vehicle doors and ensuring harmonious frequency distribution.



Image 2: Rear view of the woofer, showing the integrated crossover components.



Image 3: Close-up of the woofer's aluminum membrane.

4.2 Tweeter Installation

The 25 mm fabric dome tweeter offers low distortion, uniform radiation, and a natural, pleasant sound. An integrated 6 dB/octave frequency filter within the cable simplifies installation and ensures optimal sound. Connection is made via the

vehicle's original plug.



Image 4: EMPHASER EM-VWF4 tweeters with their inline crossover cables.



Image 5: Close-up view of the tweeter.

4.3 General Installation Notes

- Ensure all connections are secure and properly insulated.

- Mount speakers firmly to prevent vibrations and ensure optimal sound quality.
- Verify correct polarity for all speaker connections.

5. OPERATING THE SPEAKER SYSTEM

Once installed, the EMPHASER EM-VWF4 speaker system operates in conjunction with your vehicle's existing audio head unit. No special operating procedures are required for the speakers themselves. Adjust audio settings (volume, balance, fader, bass, treble) on your car's head unit to achieve your preferred sound profile. The system is designed to deliver high-fidelity audio directly from your vehicle's sound source.

6. MAINTENANCE

The EMPHASER EM-VWF4 speaker system requires minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker grilles and surrounds. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the speaker components.
- **Inspection:** Periodically check the speaker mounts and connections to ensure they remain secure. Loose connections can lead to poor sound quality or intermittent audio.
- **Environmental Protection:** While designed for automotive use, avoid exposing the speakers to excessive moisture or direct sunlight for prolonged periods, which can degrade materials over time.

7. TROUBLESHOOTING

If you encounter issues with your EMPHASER EM-VWF4 speaker system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from one or more speakers	Loose or disconnected wiring; incorrect polarity; faulty speaker or head unit.	Check all speaker connections and ensure they are secure. Verify correct polarity. Test with another known-good speaker or head unit if possible.
Distorted or unclear sound	Overpowering the speakers; incorrect audio settings; loose mounting; damaged speaker.	Reduce volume. Adjust bass/treble settings on your head unit. Ensure speakers are securely mounted. Inspect speaker cones for visible damage.
Intermittent sound	Loose wiring; faulty connection at the head unit or speaker.	Check all wiring for secure connections. Ensure no wires are pinched or frayed.
Buzzing or humming noise	Ground loop issue; interference from other electrical components.	Ensure proper grounding of the head unit and amplifier (if used). Check for proper shielding of audio cables.

If these steps do not resolve the issue, please contact customer support or a qualified car audio technician.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	EMPHASER EM-VWF4
Speaker Type	Component System
Speaker Size	15.5 Centimeters (6 inches)
Nominal Power (RMS)	80 Watts
Peak Power Output	80 Watts
Impedance	2 Ohms
Frequency Response	70 Hz – 22 kHz
Sensitivity	90 dB
Surround Sound Channel Configuration	2.0
Audio Output Mode	Stereo
Connectivity Technology	USB (Note: This refers to the head unit's connectivity, not the speakers directly)
Special Features	USB Port (Note: This refers to the head unit's features, not the speakers directly)
Mounting Type	Flush Mount
Product Dimensions (L x W x H)	15.5 x 15.5 x 7.2 cm; 3.4 kilograms
Compatible Devices	Smartphone, Tablet (via head unit)
Control Method	Remote Control (via head unit)
Waterproof	False

9. WARRANTY AND SUPPORT

9.1 Warranty Information

EMPHASER products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase or contact your retailer for specific warranty terms and conditions, as these may vary by region and retailer.

9.2 Customer Support

For technical assistance, installation queries, or troubleshooting beyond the scope of this manual, please contact your authorized EMPHASER dealer or the EMPHASER customer support team. Contact information can typically be found on the manufacturer's official website or on your purchase documentation.

