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Memphis Audio VIV1100.1

Memphis Audio VIV1100.1 SixFive Series Mono Subwoofer Amplifier Instruction Manual

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1. INTRODUCTION

Thank you for choosing the Memphis Audio VIV1100.1 SixFive Series Mono Subwoofer Amplifier. This amplifier is designed to deliver powerful and clear bass performance for your car audio system. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your amplifier.

2. SAFETY INFORMATION

WARNING: Improper installation or use of this product can result in serious injury or death. Read and understand all instructions before installing or using this product.

- Always disconnect the vehicle's battery negative terminal before beginning any installation.
- Ensure all wiring is properly routed and secured to prevent damage from moving parts or sharp edges.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in this manual.
- Do not mount the amplifier in locations exposed to direct sunlight, excessive heat, moisture, or dust.
- Never operate the amplifier with damaged wiring or if it emits smoke or unusual odors. Immediately disconnect power and consult a qualified technician.
- Professional installation is recommended for optimal performance and safety.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Memphis Audio VIV1100.1 Mono Subwoofer Amplifier
- Mounting Hardware (screws)
- Owner's Manual (this document)
- Remote Bass Knob (if included with your model)

4. SETUP & INSTALLATION

4.1 Mounting the Amplifier

Choose a mounting location that is dry, well-ventilated, and away from direct heat sources. Ensure there is sufficient airflow around the amplifier for cooling. Secure the amplifier firmly using the provided mounting hardware.

4.2 Wiring Connections

All wiring connections must be secure and properly insulated. Refer to the diagrams below for correct wiring procedures.



Figure 1: Rear Panel Connections. This image displays the rear panel of the VIV1100.1 amplifier, highlighting the power input terminals (B+, GND, REM), RCA input/output jacks, and speaker output terminals. Also visible are the 'AUTO TURN ON' switch, 'INPUT LEVEL' switch, and 'PROTECT' indicator.

4.2.1 Power Connections

- **B+ (12V Power):** Connect a heavy-gauge power cable (e.g., 4 AWG or larger, depending on installation) directly from the positive terminal of the vehicle's battery. Install an appropriate fuse (not supplied) within 18 inches of the battery.
- **GND (Ground):** Connect a heavy-gauge ground cable of the same size as the power cable to a clean, unpainted metal surface of the vehicle chassis. Ensure a good electrical connection.
- **REM (Remote Turn-On):** Connect a 18-gauge wire from the remote turn-on output of your head unit to this terminal. This wire turns the amplifier on and off with your head unit.

4.2.2 Input Connections

Connect your head unit's RCA outputs to the amplifier's RCA INPUT jacks. If your head unit does not have RCA outputs, use the high-level input option if available (refer to the 'INPUT LEVEL' switch).

4.2.3 Speaker Connections

Connect your subwoofer(s) to the amplifier's SPEAKER terminals. Ensure correct polarity (+ to + and - to -). This is a mono amplifier, designed for a single subwoofer or multiple subwoofers wired to a single channel. Refer to your subwoofer's specifications for impedance matching.

4.3 Amplifier Controls and Adjustments

The VIV1100.1 amplifier features various controls for fine-tuning your audio system. Adjust these settings carefully to achieve optimal sound quality.



Figure 2: Top Panel Controls. This image illustrates the top control panel of the VIV1100.1 amplifier, detailing the adjustable knobs for GAIN, SUB-SONIC filter, X-OVER (low-pass crossover), CENTER FREQ, Q, BASS BOOST, and the LED COLOR selector.

- **GAIN:** Adjusts the input sensitivity of the amplifier to match the output of your head unit. Start with the gain at minimum and slowly increase until desired volume is reached without distortion.
- **SUB-SONIC Filter (24dB Per Octave):** Filters out extremely low frequencies that are inaudible and can damage subwoofers. Set this just below the lowest frequency your subwoofer can reproduce effectively.
- **X-OVER (Low Pass Crossover - 48dB Per Octave):** Controls the upper frequency limit of the amplifier's output. Set this to allow only bass frequencies to pass to the subwoofer.
- **CENTER FREQ & Q:** These controls are part of the M-Equalization™ system, allowing for precise tuning of a specific frequency band. Adjust the CENTER FREQ to select the frequency and Q to adjust the bandwidth of the boost/cut.
- **BASS BOOST:** Provides an adjustable boost to bass frequencies. Use sparingly to avoid distortion and potential speaker damage.
- **LED COLOR:** Selects the color of the amplifier's LED panel. This amplifier features 7 selectable colors.

5. OPERATING INSTRUCTIONS

Once properly installed and configured, the amplifier will turn on automatically when your head unit is powered on (via the remote turn-on wire or DC offset sensing if 'AUTO TURN ON' is enabled). The LED indicator will illuminate to show operational status.

- **Power On:** The amplifier will power on when the remote turn-on signal is received.
- **LED Indicator:** The LED panel will display the selected color during normal operation. If the amplifier enters protection mode, the LED may change color or turn off (refer to Troubleshooting).
- **Volume Control:** Adjust the overall system volume using your head unit. The amplifier's gain control should be set once and not used as a volume control.

6. MAINTENANCE

The Memphis Audio VIV1100.1 amplifier requires minimal maintenance. Follow these guidelines to ensure continued performance:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check all wiring connections for tightness and signs of corrosion or damage. Ensure adequate ventilation around the amplifier.
- **Avoid Obstruction:** Do not place objects on top of the amplifier that could block airflow to the heat sinks.

7. TROUBLESHOOTING

If you experience problems with your amplifier, consult the following troubleshooting guide before contacting support.

Problem	Possible Cause	Solution
No Power / No LED	Blown fuse, poor power/ground connection, no remote turn-on signal.	Check inline fuse near battery. Verify power, ground, and remote wire connections. Ensure head unit is on.
Protection Mode (LED changes/off)	Overheating, speaker short circuit, impedance too low, DC offset.	Allow amplifier to cool. Check speaker wiring for shorts. Verify speaker impedance is within amplifier's limits. Disconnect inputs to check for DC offset.
No Sound Output	No input signal, incorrect gain setting, speaker wires disconnected.	Check RCA input cables. Adjust gain. Verify speaker connections. Ensure head unit is playing audio.
Distorted Sound	Gain set too high, improper crossover settings, damaged speaker.	Reduce gain. Adjust crossover and bass boost settings. Test with a different speaker if possible.
Engine Noise / Whine	Poor ground connection, RCA cables routed near power wires, ground loop.	Ensure amplifier and head unit have solid, separate ground points. Reroute RCA cables away from power wires. Use a ground loop isolator if necessary.

8. SPECIFICATIONS

The following are key specifications for the Memphis Audio VIV1100.1 SixFive Series Mono Subwoofer

Amplifier:

- **Model Number:** VIV1101 0 (VIV1100.1)
- **Power Output:** 1,100 watts RMS x 1 at 1 ohm (typical)
- **Subsonic Filter:** 24dB Per Octave
- **Low Pass Crossover:** 48dB Per Octave
- **Digital Signal Processing:** Yes
- **Finish:** Angel Hair Anodized
- **LED Panel:** 7 Color Selectable Color Changing LED Panel
- **Mounting Type:** Door mount (refer to installation guidelines for secure mounting)
- **UPC:** 841992149113
- **Date First Available:** July 23, 2020

9. WARRANTY & SUPPORT

9.1 Warranty Information

This Memphis Audio VIV1100.1 amplifier comes with a **90-day limited warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, accident, misuse, abuse, neglect, unauthorized modification, or normal wear and tear. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty service, or questions regarding your Memphis Audio VIV1100.1 amplifier, please contact your authorized Memphis Audio dealer or visit the official Memphis Audio website for support resources. When contacting support, please have your product model number and purchase information readily available.