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› Memphis Audio SE1200.4V2 Street Edge 85W, 4 Channel @ 2 ohm Amplifier Instruction Manual

## Memphis SE1200.4V2

# Memphis Audio SE1200.4V2 Street Edge Amplifier

Instruction Manual

## 1. INTRODUCTION

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Thank you for choosing the Memphis Audio SE1200.4V2 Street Edge 4-Channel Amplifier. This manual provides detailed instructions for the proper installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety. The SE1200.4V2 is designed to deliver high-quality audio performance with features such as variable crossovers, a subsonic filter, and an extruded aluminum heatsink for efficient heat dissipation.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions when installing and operating your amplifier:

- Disconnect the vehicle's negative battery terminal before beginning any installation.
- Ensure all wiring is properly routed and secured to prevent pinching or damage.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in this manual.
- Do not mount the amplifier in areas 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. SETUP AND INSTALLATION

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### 3.1 Package Contents

- Memphis Audio SE1200.4V2 Amplifier
- Mounting Hardware
- Instruction Manual (this document)

### 3.2 Mounting the Amplifier

Choose a mounting location that provides adequate ventilation and is protected from moisture. Common locations

include under a seat, in the trunk, or behind a panel. Ensure the mounting surface is solid and secure.

1. Place the amplifier in the desired location and mark the mounting holes.
2. Drill pilot holes if necessary, ensuring no wires or fuel lines are behind the drilling surface.
3. Secure the amplifier using the provided mounting hardware.

### 3.3 Wiring Connections

Proper wiring is crucial for performance and safety. Refer to the diagrams below for connection points.



Figure 1: Rear view of the amplifier with power and speaker terminals.



Figure 2: Front view of the amplifier with RCA inputs and control panel.

### Power and Ground Wiring:

- **Power (+12V):** Connect a direct wire from the positive terminal of the vehicle's battery to the +12V terminal on the amplifier. Use an appropriate gauge wire (e.g., 8 AWG or larger) and install an inline fuse (not supplied) within 18 inches of the battery.
- **Ground (GND):** Connect a wire of the same gauge as the power wire from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
- **Remote (REM):** Connect a wire from the REM terminal on the amplifier to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your head unit.

### RCA Input Wiring:

- Connect RCA cables from the pre-amp outputs of your head unit to the RCA input jacks on the amplifier (FRONT IN and REAR IN).

### Speaker Output Wiring:

- Connect your speakers to the speaker output terminals (FL+, FL-, FR+, FR-, RL+, RL-, RR+, RR-) on the amplifier. Observe correct polarity (+ to + and - to -).
- For bridged operation, refer to the markings on the amplifier and consult the wiring diagram for your specific speaker configuration.

## 3.4 Initial Settings

Before powering on, ensure all connections are secure. Start with the following initial settings:

- **Gain Controls:** Set all GAIN controls to their minimum (fully counter-clockwise) position.
- **Crossover Switches:** Set the CROSSOVER switches to FULL for initial setup. You can adjust these later based on your speaker type.
- **Bass Boost:** Set the BASS BOOST control to 0dB (minimum).

## 4. OPERATING THE AMPLIFIER

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### 4.1 Powering On

Once all wiring is complete and checked, reconnect the vehicle's negative battery terminal. Turn on your head unit. The amplifier's power indicator light should illuminate, indicating it is receiving power and is operational.

### 4.2 Adjusting Gain

The gain control matches the amplifier's input sensitivity to the output of your head unit. It is not a volume control.

1. Set your head unit's volume to about 75% of its maximum level.
2. Slowly increase the GAIN control on the amplifier until you hear slight distortion, then back it off slightly until the sound is clear.
3. Repeat for both front and rear channels if applicable.

### 4.3 Crossover Settings

The SE1200.4V2 features variable high-pass (HPF) and low-pass (LPF) crossovers to optimize sound for different speaker types.

- **HPF (High-Pass Filter):** Allows frequencies above the set point to pass through. Useful for full-range speakers or tweeters to prevent low-frequency distortion.
- **LPF (Low-Pass Filter):** Allows frequencies below the set point to pass through. Primarily used for subwoofers to prevent high-frequency distortion.
- **FULL:** Bypasses the crossover, allowing all frequencies to pass.

Adjust the crossover points based on your speaker's specifications and desired sound. Start with recommended settings from your speaker manufacturer.

### 4.4 Bass Boost

The BASS BOOST control allows you to enhance low frequencies. Use this feature sparingly, as excessive bass boost can lead to distortion and potential speaker damage.

## 5. MAINTENANCE

Your Memphis Audio amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check all wiring connections for tightness and signs of corrosion or damage.
- **Fuse Replacement:** If the amplifier does not power on, check the fuses located on the amplifier's power input side. Replace blown fuses only with fuses of the same type and rating (e.g., 25A ATC). Using an incorrect fuse can damage the amplifier or cause a fire.

## 6. TROUBLESHOOTING

If you experience issues with your amplifier, consult the table below for common problems and solutions.

| Problem                                          | Possible Cause                                                                                                                                         | Solution                                                                                                                                                                                                                                                                 |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Amplifier does not power on (no indicator light) | <ul style="list-style-type: none"><li>◦ Blown fuse</li><li>◦ No +12V power</li><li>◦ No ground connection</li><li>◦ No remote turn-on signal</li></ul> | <ul style="list-style-type: none"><li>◦ Check and replace amplifier fuses.</li><li>◦ Verify +12V connection at battery and amplifier.</li><li>◦ Ensure secure ground connection to chassis.</li><li>◦ Check remote wire connection at head unit and amplifier.</li></ul> |

| Problem                                | Possible Cause                                                                                                                                                                                                      | Solution                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound output                        | <ul style="list-style-type: none"> <li>◦ RCA cables disconnected or faulty</li> <li>◦ Speaker wires disconnected or shorted</li> <li>◦ Head unit not sending signal</li> <li>◦ Amplifier in protect mode</li> </ul> | <ul style="list-style-type: none"> <li>◦ Check RCA connections and cables.</li> <li>◦ Inspect speaker wiring for shorts or disconnections.</li> <li>◦ Verify head unit is on and playing audio.</li> <li>◦ Check for protect light; resolve underlying issue (e.g., overheating, shorted speaker wire).</li> </ul> |
| Distorted sound                        | <ul style="list-style-type: none"> <li>◦ Gain set too high</li> <li>◦ Improper crossover settings</li> <li>◦ Speaker impedance mismatch</li> <li>◦ Poor ground connection</li> </ul>                                | <ul style="list-style-type: none"> <li>◦ Reduce gain setting.</li> <li>◦ Adjust crossover frequencies.</li> <li>◦ Verify speaker impedance matches amplifier's capabilities.</li> <li>◦ Improve ground connection.</li> </ul>                                                                                      |
| Amplifier overheats (protect light on) | <ul style="list-style-type: none"> <li>◦ Insufficient ventilation</li> <li>◦ Speaker impedance too low</li> <li>◦ Sustained high volume operation</li> </ul>                                                        | <ul style="list-style-type: none"> <li>◦ Ensure adequate airflow around amplifier.</li> <li>◦ Check speaker impedance.</li> <li>◦ Reduce volume or allow amplifier to cool down.</li> </ul>                                                                                                                        |

## 7. SPECIFICATIONS

The following are key specifications for the Memphis Audio SE1200.4V2 Street Edge Amplifier:

- **Model:** SE1200.4V2
- **RMS Power @ 4Ω:** 60W x 4 Channels
- **RMS Power @ 2Ω:** 85W x 4 Channels
- **Frequency Response:** 10Hz – 30kHz
- **Voltage:** 8 Volts (Operating)
- **Number of Channels:** 4
- **Item Dimensions (L x W x H):** Approximately 18 x 18 inches (Note: This dimension seems unusually large for an amplifier and may refer to packaging or a different measurement. Please refer to product packaging for precise dimensions.)
- **Item Weight:** 6.6 pounds
- **Features:** Subsonic Filter, Variable Crossovers, Extruded Aluminum Heatsink

## 8. WARRANTY AND SUPPORT

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Memphis Audio products are designed and manufactured to the highest standards. For warranty information, please refer to the warranty card included with your product or visit the official Memphis Audio website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support or service inquiries, please contact your authorized Memphis Audio dealer or visit the Memphis Audio support page online.

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