Soundstream VM-20B

Soundstream VM-20B Single DIN Multimedia Car Stereo Instruction Manual

Model: VM-20B

1. INTRODUCTION

The Soundstream VM-20B is a Single DIN mechless multimedia car stereo designed to provide efficient, hands-free access to media and communication tools in your vehicle. This unit replaces traditional CD slots with modern digital media options, offering a compact form factor for easy dashboard integration.
Key features include Bluetooth streaming, USB/Micro-SD playback, fast-charging support, and a built-in AM/FM tuner.

Figure 1: Front panel of the Soundstream VM-20B car stereo, showing the volume knob, display, USB ports, and control buttons.

2. SETUP AND INSTALLATION

The VM-20B is engineered to fit most vehicles with its ISO 1-DIN chassis. A mounting sleeve is included to ensure a snug and secure installation. Its mechless design enhances reliability by eliminating moving parts, making it suitable for various driving conditions.

2.1. Installation Process

1. **Preparation:** Ensure the vehicle's battery is disconnected before beginning installation.
2. **Remove Existing Unit:** Carefully remove the existing car stereo unit from the dashboard. Refer to your vehicle's service manual for specific instructions on panel removal.
3. **Mounting Sleeve:** Insert the provided mounting sleeve into the vehicle's dashboard opening. Bend the

multiple mounting tabs around the sleeve to secure it firmly.

4. **Wiring Connections:** Connect the wiring harness from the VM-20B to your vehicle's wiring. Ensure all connections are secure and correctly matched (e.g., power, ground, speaker wires).

5. **Antenna Connection:** Connect the vehicle's antenna cable to the ANT input on the rear of the VM-20B.

6. **Slide Unit into Sleeve:** Carefully slide the VM-20B head unit into the mounting sleeve until it clicks securely into place.

7. **Test Functionality:** Reconnect the vehicle battery and test all functions of the stereo (power, audio, radio, Bluetooth, USB, AUX).

8. **Reassemble:** Reinstall any removed dashboard panels or trim pieces.

3. OPERATING INSTRUCTIONS

3.1. Power On/Off

Press the **Power/Mode** button to turn the unit on or off. A short press typically cycles through input modes.

3.2. Volume Control

Rotate the large central knob to adjust the volume level. Pressing the knob may mute/unmute the audio.

3.3. Mode Selection

Press the **Mode** button to cycle through available audio sources: FM/AM Radio, Bluetooth Audio, USB, SD Card, and AUX Input.

3.4. Media Playback Options

- **USB Playback:** Insert a USB flash drive into the dedicated USB port. The unit supports MP3 and WMA file formats.
- **Micro-SD Card:** Insert a Micro-SD card (up to 64 GB) into the designated slot for media playback.
- **AUX Input:** Connect external audio devices via the front-facing 3.5 mm AUX input.

3.5. Bluetooth & Wireless Audio Capabilities

The VM-20B features Bluetooth v4.0 for hands-free calling and high-quality audio streaming (A2DP). It also supports AVRCP for media playback control from your phone.

- **Pairing:** Enable Bluetooth on your mobile device and search for the VM-20B. Select the unit from the list and confirm pairing.
- **Hands-Free Calling:** Once paired, you can make and receive calls directly through the car stereo.
- **Audio Streaming:** Stream music wirelessly from your paired device.

3.6. AM/FM Radio Tuner

The built-in AM/FM tuner allows you to catch your favorite stations with ease. It stores 18 FM and 12 AM preset stations for quick access.

- **Tuning:** Use the **Seek** buttons to automatically find stations or manually tune.
- **Presets:** Press and hold a numbered button (1-6) to save the current station as a preset. Short press to recall a saved station.

3.7. Audio Performance and Output

The VM-20B integrates a 4-channel Class A/B amplifier with up to 300 watts max power. It includes a built-in 3-band equalizer with preset tone curves for sound customization.

- **RCA Preamp Outputs:** Four RCA preamp outputs (Front L/R + Rear L/R) are available for system expansion, such as connecting external amplifiers or subwoofers.
- **Fast Charging:** One of the dual USB ports provides 2.1A fast charging for smartphones and other devices.

4. MAINTENANCE

To ensure optimal performance and longevity of your Soundstream VM-20B car stereo, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the front panel and display. Avoid abrasive cleaners or solvents.
- **Connections:** Periodically check all wiring connections for tightness and corrosion. Ensure the mounting sleeve remains secure.
- **Software Updates:** Check the Soundstream official website for any available firmware updates to ensure the best performance and compatibility.
- **Fuse Replacement:** If the unit loses power, check the fuse located on the rear of the unit. Replace it with a fuse of the correct type and amperage as specified in the manual.

5. TROUBLESHOOTING

If you encounter issues with your Soundstream VM-20B, refer to the following common questions and solutions:

- **Q: What devices are supported by the VM-20B?**
  A: The unit supports USB flash drives, Micro-SD cards, smartphones (via Bluetooth or AUX), and other audio devices.
- **Q: Can I connect an amplifier or subwoofer?**
  A: Yes, the 4ch RCA preamp outputs allow for integration with external amplifiers or subwoofers.
- **Q: Is it compatible with both Android and iOS devices?**
  A: Yes, Bluetooth and AUX functions work with all major mobile platforms.
- **Q: The unit has no power.**
  A: Check the vehicle's fuse box and the fuse on the back of the stereo. Ensure all power connections are secure.
- **Q: No sound from speakers.**
  A: Verify speaker wiring connections. Check the volume level and ensure the unit is not muted. Confirm the correct audio source is selected.
- **Q: Bluetooth pairing fails.**
  A: Ensure Bluetooth is enabled on your mobile device and the VM-20B is in pairing mode. Try restarting both devices.

6. SPECIFICATIONS

- **Item Weight:** 1.09 pounds
- **Product Dimensions:** 7.48 x 5.51 x 2.36 inches

- **Item Model Number:** VM-20B

- **Manufacturer:** Epsilon (Soundstream)

- **Connectivity:** Bluetooth v4.0, Dual USB (1 for media, 1 for 2.1A charging), Micro-SD, 3.5mm AUX Input

- **Audio Output:** 4-channel Class A/B amplifier, 300 watts max power, 4ch RCA preamp outputs (Front L/R + Rear L/R), 3-band equalizer

- **Tuner:** AM/FM with 18 FM and 12 AM preset stations

- **Media Formats:** MP3, WMA

7. WARRANTY AND SUPPORT

The Soundstream VM-20B comes with a **1 Year Manufacturer Warranty**. For warranty claims, technical support, or further assistance, please contact Soundstream customer service or refer to the official Soundstream website for detailed support information.