

## NVX QB10SPA

# NVX QB10SPA 10-inch Powered Subwoofer Enclosure User Manual

Model: QB10SPA

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## 1. PRODUCT OVERVIEW

The NVX QB10SPA is a 10-inch shallow slot ported powered subwoofer enclosure designed to enhance the bass performance of your vehicle's audio system. It features a built-in Class D amplifier, a durable enclosure, and includes a remote bass knob for convenient control.

### Key Features:

- **Powerful Bass Performance:** Delivers deep, punchy bass with a peak power output of 1200W and 350W RMS.
- **Built-in Class D Amplifier:** Features an integrated Class D monoblock amplifier with a low-pass crossover (50–250 Hz) for precise bass control and high efficiency.
- **Remote Bass Level Control:** Easily adjust bass output with the included wired remote bass knob.
- **Durable Enclosure:** Constructed from 3/4" MDF with a CNC-cut ported design, black carpet finish, stitched NVX logo, and a pre-installed metal grille for protection.
- **Easy Installation & Compatibility:** Works with both factory and aftermarket head units using RCA or speaker-level inputs. Includes a removable power plug and a 30A fuse for safe wiring.



Figure 1: Front view of the NVX QB10SPA subwoofer enclosure.

## 2. SAFETY INFORMATION

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Please read all instructions carefully before installing and operating your NVX QB10SPA subwoofer. Failure to follow these guidelines may result in damage to the product, your vehicle, or personal injury.

### General Safety Precautions:

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Ensure all wiring is properly routed and secured to prevent pinching, chafing, or short circuits.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Do not mount the subwoofer in a location that obstructs the driver's view or interferes with vehicle operation.
- Avoid exposing the unit to moisture or extreme temperatures.
- If you are unsure about any part of the installation process, consult a professional car audio installer.

## 3. WHAT'S IN THE BOX

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Verify that all components are present before beginning installation:

- NVX QB10SPA Amplified Ported Loaded Subwoofer Enclosure

- Wired Remote Bass Knob with Cable
- High-Level Input Harness
- Mounting Screws
- Allen Wrenches (for adjustments)
- Spare 30A Fuse



*Figure 2: Included accessories with the NVX QB10SPA.*

## 4. SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance and safety. Follow these steps carefully.

### 4.1 Mounting Location

Choose a secure location in your vehicle, such as the trunk or under a seat, where the subwoofer will not shift during driving. Ensure adequate ventilation around the amplifier panel.



Figure 3: The compact design of the QB10SPA allows for flexible mounting options.

## 4.2 Wiring Connections

The QB10SPA offers both low-level (RCA) and high-level (speaker wire) input options.



Figure 4: Rear panel connections for power, ground, remote, and audio inputs.

### Power Connections:

1. **Power (+12V):** Connect a suitable gauge power wire (e.g., 8 AWG) directly from the vehicle's positive battery terminal to the +12V terminal on the subwoofer. Install an in-line fuse (not supplied, typically 30A) within 18 inches of the battery.
2. **Ground (GND):** Connect a short, heavy gauge ground wire (e.g., 8 AWG) from the GND terminal to a clean, unpainted metal surface on the vehicle chassis. Ensure a good electrical connection.
3. **Remote (REM):** Connect a remote turn-on wire from your head unit's remote output to the REM terminal. If your head unit does not have a remote output, you can use the high-level input with DC offset sensing (see below).

### Audio Input Connections:

- **Low-Level Input (RCA):** If your head unit has RCA pre-outs, connect RCA cables from the head unit's subwoofer or full-range outputs to the L and R LOW INPUT jacks on the subwoofer.
- **High-Level Input (Speaker Level):** If your head unit does not have RCA outputs, use the supplied high-level input harness. Connect the speaker wires from your head unit's speaker outputs to the corresponding wires on the harness. The QB10SPA features DC offset sensing, which can automatically turn the subwoofer on when it detects an audio signal, eliminating the need for a separate remote wire.



Figure 5: Detailed view of the control panel, showing input and adjustment options.

## 5. OPERATING AND ADJUSTMENTS

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Once installed, you can fine-tune the subwoofer's performance using the controls on the amplifier panel and the remote bass knob.

### 5.1 Amplifier Controls:

- **GAIN (Input Level):** This control matches the output of your head unit to the input of the subwoofer. Start with the gain at minimum. Play a familiar track and slowly increase the gain until you hear distortion, then back off slightly.
- **LPF (Low-Pass Filter):** This control sets the upper frequency limit for the subwoofer, allowing only frequencies below the set point to pass through. Adjust between 50 Hz and 250 Hz to blend the subwoofer's output seamlessly with your main speakers. A common starting point is 80-100 Hz.

### 5.2 Remote Bass Knob:

The included remote bass knob allows for convenient, on-the-fly adjustment of the subwoofer's output level from the driver's seat.



Figure 6: The wired remote bass knob for convenient level adjustment.

- Connect the remote bass knob cable to the designated port on the subwoofer's amplifier panel.
- Mount the knob in an easily accessible location.
- Use the dial to increase or decrease the bass level as desired.

## 6. MAINTENANCE

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The NVX QB10SPA requires minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Periodically wipe the enclosure with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check all wiring connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure that the amplifier panel and port remain unobstructed to allow for proper heat dissipation.

## 7. TROUBLESHOOTING

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If you experience issues with your QB10SPA, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / No Indicator Light	<ul style="list-style-type: none"><li>• Blown fuse</li><li>• Poor power or ground connection</li><li>• Remote turn-on issue</li></ul>	<ul style="list-style-type: none"><li>• Check and replace the 30A fuse (located on the amplifier panel).</li><li>• Verify all power and ground connections are secure.</li><li>• Ensure the remote wire is connected and receiving +12V when the head unit is on. If using high-level input, ensure DC offset sensing is active.</li></ul>
No Sound Output	<ul style="list-style-type: none"><li>• Incorrect input connection</li><li>• Gain set too low</li><li>• LPF set too low</li><li>• Head unit settings</li></ul>	<ul style="list-style-type: none"><li>• Check RCA or high-level input connections.</li><li>• Increase the GAIN control gradually.</li><li>• Adjust the LPF to a higher frequency (e.g., 80-100 Hz).</li><li>• Verify head unit's subwoofer output or speaker settings.</li></ul>
Distorted Sound	<ul style="list-style-type: none"><li>• Gain set too high</li><li>• Poor ground connection</li><li>• Damaged speaker/amplifier</li></ul>	<ul style="list-style-type: none"><li>• Reduce the GAIN control.</li><li>• Ensure a clean, secure ground connection.</li><li>• If distortion persists, consult a professional.</li></ul>
Subwoofer Overheating	<ul style="list-style-type: none"><li>• Insufficient ventilation</li><li>• Overdriving the subwoofer</li></ul>	<ul style="list-style-type: none"><li>• Ensure adequate airflow around the amplifier.</li><li>• Reduce the GAIN or bass level.</li></ul>

If these steps do not resolve the issue, please contact NVX customer support.

## 8. SPECIFICATIONS

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Feature	Detail
Brand	NVX
Model Number	QB10SPA
Speaker Size	10 Inches
Speaker Type	Subwoofer
Maximum Output Power	1200 Watts
RMS Power	350 Watts
Amplifier Type	Built-in Class D
Low-Pass Crossover (LPF)	50-250 Hz
Connectivity Technology	Wired (RCA, Speaker Level)
Enclosure Material	MDF, Metal (grille)
Item Dimensions (D x W x H)	20.86"D x 5.7"W x 12.99"H
Item Weight	20 Pounds
Built-In Media	Amplified Ported Loaded Subwoofer Enclosure, Remote Bass Knob
UPC	810021846606

## 9. WARRANTY AND SUPPORT

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The NVX QB10SPA is covered by a **1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage caused by:

- Improper installation or wiring.
- Accident, abuse, or misuse.
- Exposure to moisture, extreme heat, or cold.
- Unauthorized repair or modification.

For warranty claims or technical support, please contact NVX customer service through their official website or your retailer. Please have your proof of purchase and product model number ready.