

## Excalibur X1

# EXCALIBUR X1 Complete Car Audio System User Manual

Model: X1 | Brand: Excalibur

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your EXCALIBUR X1 Complete Car Audio System. This system includes a 12-inch bass reflex boombox, a 2-channel MOSFET amplifier, and a comprehensive cable set. Please read this manual thoroughly before attempting installation or operation.

## 2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in injury, damage to the product, or damage to your vehicle.

- **Professional Installation Recommended:** If you are unsure about any part of the installation process, seek assistance from a qualified car audio technician.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and electrical shock.
- **Proper Wiring:** Ensure all wiring is correctly routed and secured to prevent pinching, chafing, or interference with vehicle components. Use appropriate gauge wires as specified.
- **Fuse Protection:** Install the provided fuse holder and fuse as close to the battery as possible on the main power cable to protect against overcurrent.
- **Ventilation:** Ensure the amplifier is installed in a location with adequate ventilation to prevent overheating. Do not cover the amplifier's heat sinks.
- **Hearing Protection:** Prolonged exposure to high volume levels can cause permanent hearing damage. Operate the system at safe listening levels.
- **Secure Mounting:** Securely mount all components to prevent them from becoming projectiles during sudden stops or collisions.

### 3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x EXCALIBUR X12.1BR 12-inch Bass Reflex Boombox (Subwoofer)
- 1x EXCALIBUR X600.2 2-Channel MOSFET Amplifier
- 1x EXCALIBUR X8GA Complete Cable Set, including:
  - 5m Blue Power Cable
  - 1m Silver Power Cable (Ground)
  - 5.2m RCA Cable
  - 5.2m Remote Turn-On Cable
  - 1x AGU Fuse Holder
  - 1x 60Amp AGU Fuse
  - 4x Cable Terminals



Image 3.1: All components of the EXCALIBUR X1 Complete Car Audio System, including the subwoofer, amplifier, and cable kit.



Image 3.2: Front view of the EXCALIBUR X1 product packaging.

## 4. SETUP AND INSTALLATION

This section outlines the general steps for installing your EXCALIBUR X1 Car Audio System. Specific vehicle requirements may vary.

### 4.1. Amplifier Installation (EXCALIBUR X600.2)

The amplifier is the central component for powering your subwoofer. Choose a mounting location that is dry, well-ventilated, and secure, such as under a seat or in the trunk.

1. **Mounting:** Securely fasten the amplifier to a solid surface using appropriate screws or bolts. Ensure there is sufficient space around the amplifier for airflow.
2. **Power Connection:**
  - Connect the 5m blue power cable from the amplifier's +12V terminal to the positive (+) terminal of your car battery.
  - Install the AGU fuse holder with the 60Amp fuse within 18 inches (45 cm) of the battery on this power cable.
  - Connect the 1m silver power cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle chassis. Ensure a good electrical connection.
3. **Remote Turn-On:** Connect the 5.2m remote turn-on cable from the amplifier's REM terminal to the remote output of your car's head unit. This cable turns the amplifier on and off with the head unit.



4. **RCA Input:** Connect the 5.2m RCA cable from the RCA output of your head unit to the RCA input terminals on the amplifier.



## Excalibur X1 Pack



**Excalibur  
complete  
bass set**

**Upgrade  
factory  
audio**

**Amp +  
subwoofer  
combo**

**12 inch, Subwoofer with 2-Channel Amp**

Image 4.1: Close-up view of the EXCALIBUR X600.2 2-channel MOSFET amplifier, showing input and output terminals.



Image 4.2: The EXCALIBUR X600.2 amplifier shown with the included cable set, illustrating the components for wiring.

## 4.2. Subwoofer Installation (EXCALIBUR X12.1BR)

The bass reflex boombox is designed to deliver powerful bass. Place it in the trunk or cargo area of your vehicle.

1. **Placement:** Position the boombox securely in the desired location. Ensure it does not obstruct vision or interfere with safety equipment.
2. **Wiring:** Connect the subwoofer output terminals of the amplifier to the input terminals on the X12.1BR boombox using appropriate speaker wire (not explicitly listed in cable set, but implied). Ensure correct polarity (+ to + and - to -).
3. **Securing:** Use straps or brackets to prevent the boombox from shifting during vehicle movement.



Image 4.3: Front view of the EXCALIBUR X12.1BR 12-inch bass reflex subwoofer boombox.



Image 4.4: Side view of the EXCALIBUR X12.1BR subwoofer boombox, showing the port and enclosure design.

## 5. OPERATING INSTRUCTIONS

---

Once installed, operate your EXCALIBUR X1 system by turning on your car's head unit. The amplifier will power on automatically via the remote turn-on wire.

- **Initial Power-Up:** After installation, double-check all connections before reconnecting the car battery. Turn on your head unit. The amplifier should power on (indicated by an LED, if present).
- **Gain Adjustment:** The amplifier features a gain control. Start with the gain set to minimum. Play music and slowly increase the gain until the desired volume is achieved without distortion. Avoid setting the gain too high, as this can cause clipping and damage to the subwoofer.
- **Crossover Settings:** The amplifier may have a low-pass filter (LPF) control. Adjust this to filter out high frequencies from the subwoofer, allowing it to reproduce only bass notes. A common starting point is 80-100 Hz.
- **Bass Boost:** Use the bass boost feature sparingly, if available, as excessive bass boost can lead to distortion and potential damage.
- **Volume Control:** Use your head unit's volume control for overall system volume adjustment.

## 6. MAINTENANCE

---

Regular maintenance ensures the longevity and optimal performance of your car audio system.

- **Cleaning:** Keep the amplifier and subwoofer free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners directly on components.

- **Connection Checks:** Periodically check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure the amplifier's ventilation areas remain unobstructed.
- **Fuse Inspection:** If the system stops working, check the AGU fuse. Replace it only with a fuse of the same rating (60 Amp).

## 7. TROUBLESHOOTING

If you encounter issues with your EXCALIBUR X1 system, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power to amplifier	Blown fuse; loose power/ground connection; remote wire not connected or faulty.	Check and replace fuse; verify all power and ground connections are secure; ensure remote wire is connected to head unit's remote output.
No sound from subwoofer	RCA cables disconnected; speaker wires disconnected or incorrect polarity; amplifier gain too low; head unit settings.	Check RCA connections; verify speaker wire connections and polarity; increase amplifier gain; check head unit's subwoofer output settings.
Distorted sound	Amplifier gain too high; damaged speaker wire; poor ground connection; amplifier overheating.	Reduce amplifier gain; inspect speaker wires for damage; ensure ground connection is solid; check amplifier ventilation.
Amplifier goes into protection mode	Overheating; short circuit in speaker wiring; impedance mismatch.	Allow amplifier to cool; check speaker wiring for shorts; ensure subwoofer impedance matches amplifier's capabilities.

## 8. SPECIFICATIONS

Detailed technical specifications for the EXCALIBUR X1 Complete Car Audio System components:

### 8.1. Subwoofer (EXCALIBUR X12.1BR)

- **Type:** X12.1BR Bass Reflex Boombox
- **RMS Power:** 300 Watts
- **Peak Power:** 1000 Watts
- **Frequency Range:** 35 ~ 1000 Hz
- **Diameter:** 12 inches (30 cm)
- **Dimensions (L x D x H):** 40.4 x 26/42 x 35.4 cm
- **Impedance:** 4 Ohms

### 8.2. Amplifier (EXCALIBUR X600.2)

- **Type:** X600.2 MOSFET Amplifier
- **Number of Channels:** 2
- **Peak Power (Total):** 1200 Watts (at 2 ohms)



- **Dimensions (L x W x H):** 24 x 22 x 4.8 cm
- **Protection Features:** Thermal protection, Short-circuit protection, Overload protection

### 8.3. Cable Set (EXCALIBUR X8GA)

- **Type:** X8GA
- **Components:**
  - 5m Blue Power Cable
  - 1m Silver Power Cable
  - 5.2m RCA Cable
  - 5.2m Remote Cable
  - 1x AGU Fuse Holder
  - 1x 60Amp AGU Fuse
  - 4x Cable Terminals



Image 8.1: Rear view of the EXCALIBUR X1 product packaging, displaying detailed specifications for the subwoofer, amplifier, and cable kit.






## 9. WARRANTY AND SUPPORT

Your EXCALIBUR X1 Complete Car Audio System is covered by a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims or technical support, please contact your authorized EXCALIBUR dealer or the manufacturer's customer service. Keep your proof of purchase for warranty validation.

© 2023 Excalibur. All rights reserved. Information in this manual is subject to change without notice.

## Related Documents - X1

	<p><a href="#">Excalibur X4100.4 Car Audio System Owner's Manual</a></p> <p>This owner's manual provides essential information for the Excalibur X4100.4 Car Audio System, including installation guides, system planning, troubleshooting tips, and technical specifications. Learn how to properly set up and operate your car audio amplifier.</p>
	<p><a href="#">Excalibur Dehydrator: Comprehensive Dehydration Guide</a></p> <p>A detailed guide to using the Excalibur Dehydrator for preserving fruits, vegetables, meats, and more. Includes preparation, drying, storage, recipes, and troubleshooting.</p>
	<p><a href="#">Excalibur RF-50-EDP Deluxe 2-way OEM Upgrade &amp; Range Extender Operation Guide</a></p> <p>This operation guide provides detailed instructions for the Excalibur RF-50-EDP, a deluxe 2-way OEM upgrade and range extender system. It covers controller and transmitter overview, functions like locking, unlocking, trunk release, remote start, panic mode, auxiliary functions, and advanced features such as low battery/temperature auto-starting and pit-stop mode. The guide also explains security features, valet switch usage, status light indicators, controller options, and programming procedures for transmitters and system features.</p>
	<p><a href="#">EZ Dry Dehydrator Guide: EVM/EVE/EJM Models</a></p> <p>Comprehensive guide for operating and maintaining EZ Dry dehydrators (EVM, EVE, EJM models) by Excalibur. Learn about food preparation, drying basics, temperature settings, and various uses like making fruit leathers and jerky.</p>
	<p><a href="#">Excalibur 80 Series 4-Button 1-Way Quick User Guide</a></p> <p>A quick user guide for the Excalibur 80 Series 4-Button 1-Way remote start and security system, covering common functions, emergency override, and battery replacement.</p>



**RS-320-EDP**

Deluxe Keyless Entry & Remote Start

**Installation Guide**



Temporary cover. Color cover is in a separate file.

[Excalibur RS-320-EDP Installation Guide: Keyless Entry & Remote Start System](#)

This installation guide provides detailed instructions for the Excalibur RS-320-EDP Deluxe Keyless Entry & Remote Start system, covering wiring, component setup, and programming features for professional installation.