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› Pioneer TS-C1790BR 2-Way 6-inch Speaker Kit Instruction Manual

## PIONEER TS-C1790BR

# Pioneer TS-C1790BR 2-Way 6-inch Speaker Kit

Instruction Manual

## 1. PRODUCT OVERVIEW

The Pioneer TS-C1790BR 2-Way Speaker Kit is designed to deliver a completely new and enhanced acoustic experience in your vehicle. This kit features a cellulose and fiberglass cone, engineered to provide pure and natural sound reproduction across the entire frequency range. Enjoy high-fidelity music that complements your driving experience. The speakers are further enhanced by a newly developed magnet and dust cap structure, ensuring deeper bass and improved sound response with 100W RMS power.



Figure 1.1: Complete Pioneer TS-C1790BR 2-Way Speaker Kit components.

## 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 Pair of 6-1/2" (17cm) Woofers
- 1 Pair of Tweeters
- 1 Pair of Passive Crossovers
- Mounting Screws
- Warranty Certificate

## 3. SAFETY INFORMATION

For your safety and to prevent damage to the product, please observe the following precautions:

- **Professional Installation Recommended:** Installation of car audio components can be complex. It is highly recommended to have this product installed by a qualified professional.
- **Power Off:** Always disconnect the vehicle's battery before beginning any installation work to prevent electrical shorts and damage.
- **Wiring:** Ensure all wiring is correctly connected according to the wiring diagram. Incorrect wiring can cause damage to the speakers, amplifier, or vehicle's electrical system.
- **Mounting:** Securely mount all components to prevent them from becoming loose during vehicle operation, which could cause injury or damage.

- **Volume Levels:** Avoid prolonged listening at excessively high volume levels, as this can cause hearing damage and speaker distortion.
- **Moisture:** Keep the speakers and components away from moisture and water.

## 4. SETUP AND INSTALLATION

This section provides general guidelines for installing your Pioneer 2-Way Speaker Kit. For detailed vehicle-specific instructions, consult your vehicle's service manual or a professional installer.

### 4.1. Woofer Installation

The 6-1/2" woofers are designed for flush mounting. Ensure the mounting location has sufficient depth and the cutout diameter matches the speaker's requirements.

1. Carefully remove the existing speakers from the desired mounting location (e.g., car doors).
2. If necessary, create a cutout with a diameter of 142 mm (5.59 inches).
3. Connect the woofer wires to the corresponding output terminals on the passive crossover network.
4. Place the woofer into the cutout and secure it using the provided mounting screws.



Figure 4.1: Pioneer 6-1/2 inch Woofer.

## 4.2. Tweeter Installation

The tweeters can be surface or flush mounted depending on your vehicle's interior and desired sound staging.

1. Choose an optimal location for the tweeters, typically near the woofers or on the dashboard/A-pillars for best sound imaging.
2. Connect the tweeter wires to the corresponding output terminals on the passive crossover network.
3. Secure the tweeters using the appropriate mounting hardware.



Figure 4.2: Pioneer Tweeter.

## 4.3. Crossover Network Installation

The passive crossover network separates the audio signal into appropriate frequencies for the woofers and tweeters.

1. Mount the crossover networks in a secure, dry location, away from heat sources and moisture.
2. Connect the input terminals of the crossover to the speaker output of your car's head unit or amplifier.
3. Connect the 'WOOFER' output terminals of the crossover to the woofers.
4. Connect the 'TWEETER' output terminals of the crossover to the tweeters.

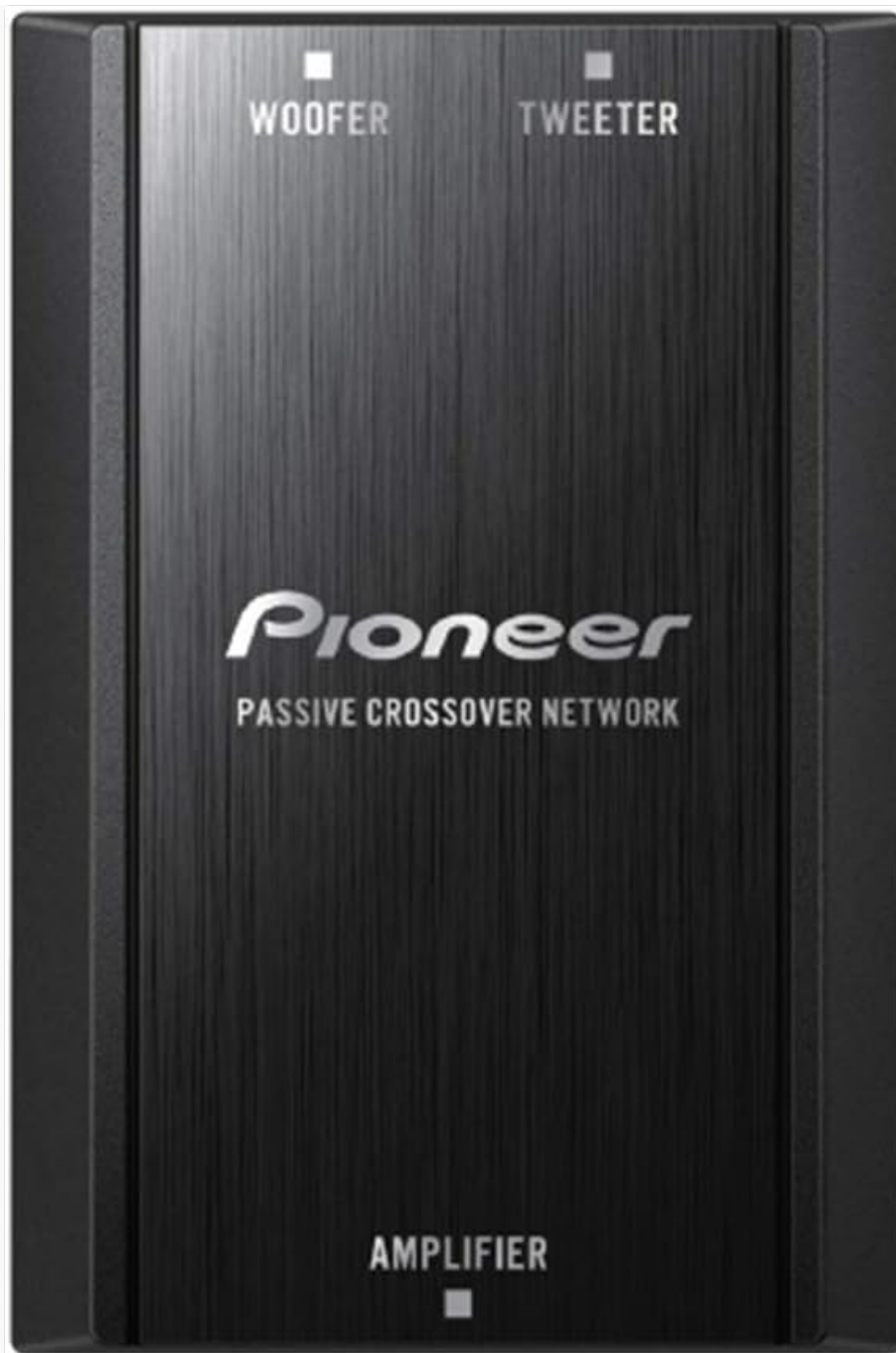


Figure 4.3: Pioneer Passive Crossover Network.

## 5. OPERATING INSTRUCTIONS

Once properly installed, your Pioneer TS-C1790BR speaker kit will operate in conjunction with your car's audio system. No specific operational controls are present on the speakers themselves.

- **Power On:** Turn on your car's head unit or amplifier.
- **Volume Adjustment:** Adjust the volume level using your head unit's controls. Start at a low volume and gradually increase it.
- **Audio Settings:** Use your head unit's equalizer and sound settings to fine-tune the audio output to your preference. Avoid excessive bass or treble boosts that could distort the sound or damage the speakers.
- **Break-in Period:** Allow a short break-in period (typically 10-20 hours of normal use) for the speakers to reach their optimal performance. During this time, avoid playing music at extremely high volumes.

## 6. MAINTENANCE

Proper care will ensure the longevity and performance of your speaker kit.

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker grilles and surrounds. Do not use harsh chemicals, solvents, or abrasive cleaners.
- **Avoid Moisture:** Keep the speakers dry. Exposure to water or excessive humidity can damage the cones and internal components.
- **Temperature Extremes:** While designed for automotive use, avoid exposing the speakers to extreme temperatures for prolonged periods.
- **Physical Damage:** Protect the speaker cones and tweeters from physical impact or punctures.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring Head unit/amplifier not powered on Mute function activated	Check all wiring connections to the head unit, amplifier, and speakers. Ensure head unit/amplifier is powered on and functioning. Deactivate mute function on head unit.
Distorted or unclear sound	Volume too high Incorrect audio settings (e.g., excessive bass boost) Loose speaker mounting Damaged speaker cone/tweeter	Reduce volume level. Adjust equalizer settings on head unit; reset to flat if necessary. Check speaker mounting screws for tightness. Inspect speaker cones and tweeters for visible damage.
Sound from only one side	Loose connection on one channel Balance setting incorrect Faulty speaker/crossover	Check wiring for the affected side. Adjust the balance control on your head unit. Test speakers individually if possible; consult professional if issue persists.

If the problem persists after attempting these solutions, please contact Pioneer customer support or a qualified car audio technician.

## 8. SPECIFICATIONS

Detailed technical specifications for the Pioneer TS-C1790BR 2-Way Speaker Kit:

Feature	Specification
Model Name	TS-C1790BR
Speaker Type	2-Way Component Speaker System (Woofer, Tweeter, Crossover)

Feature	Specification
Woofers Size	6-1/2 inches (17 cm)
Nominal Power (RMS)	100 Watts
Sensitivity (1W/1m)	90 dB
Frequency Response	40 Hz to 20 kHz (-20 dB)
Impedance	4 Ohms
Woofers Mounting Depth	58 mm (2.28 inches)
Woofers Cutout Dimensions	142 mm (5.59 inches)
Product Dimensions (Woofers)	166 mm (diameter) x 64 mm (depth)
Product Weight	2.8 kg (6.17 lbs)
Cone Material	Cellulose with Fiberglass
Dust Cap Material	Aluminum
Compatible Devices	Car audio system, Home theater system
Color	Black
Mounting Type	Flush Mount

## 9. WARRANTY AND SUPPORT

This Pioneer product comes with a limited warranty. Please refer to the included Warranty Certificate for specific terms, conditions, and duration of coverage.

For technical support, service, or warranty claims, please contact Pioneer customer service or visit the official Pioneer website. Keep your purchase receipt as proof of purchase for warranty purposes.

You can find a list of authorized service centers on the Pioneer website or by contacting customer support.