

PIONEER TST110

Pioneer TS-T110 7/8-Inch Component Tweeter Instruction Manual

Model: TST110

1. PRODUCT OVERVIEW

The Pioneer TS-T110 is a 7/8-inch hard dome component tweeter designed to enhance the high-frequency sound reproduction in your car audio system. This tweeter delivers clear and precise high notes, complementing midrange drivers and subwoofers for a balanced and dynamic sound experience.

Key features include:

- **Hard Dome Diaphragm:** Ensures wide sound dispersion and crystal-clear, precise sound reproduction.
- **Power Handling:** Capable of handling a maximum of 120 watts and a continuous power of 40 watts, allowing for dynamic audio without distortion.
- **Frequency Response:** Optimized for high audio frequencies, with a range of 2500 Hz to 30,000 Hz for accurate sound.
- **High Sensitivity:** A sensitivity rating of 90 dB ensures clear and loud sound even with lower power inputs.
- **Flexible Installation:** Designed for both flush and surface mounting, with included hardware for optimal fitment in various speaker locations.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2 x Tweeters (each with 20" length of speaker wire and in-line crossover capacitor hardwired)
- 2 x Flush Mount Cups
- 2 x Flush Mount Backplates
- 2 x Double-sided Self-adhesive Foam Mounting Pads
- 2 x Threaded Posts

Style & sound, in harmony.

The soft dome diaphragm delivers high-frequencies sounds widely & accurately.



POWER HANDLING

120 W MAXIMUM
40 W CONTINUOUS

Pioneer

TS-T110

Image: Pioneer TS-T110 tweeters shown with various mounting accessories, including flush mount cups and backplates.

3. INSTALLATION

Proper installation is crucial for optimal performance. If you are unfamiliar with car audio wiring, professional installation is recommended.

Mounting Options:

The TS-T110 tweeters offer both flush mount and surface mount options to suit various vehicle interiors and acoustic requirements.

- **Flush Mounting:** Requires cutting a circular opening in the desired location. Use the flush mount cup and backplate to secure the tweeter.
- **Surface Mounting:** Use the double-sided adhesive foam pads or threaded posts to attach the tweeter directly to a flat surface.

TS-T110 DIMENSIONS

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Tweeter

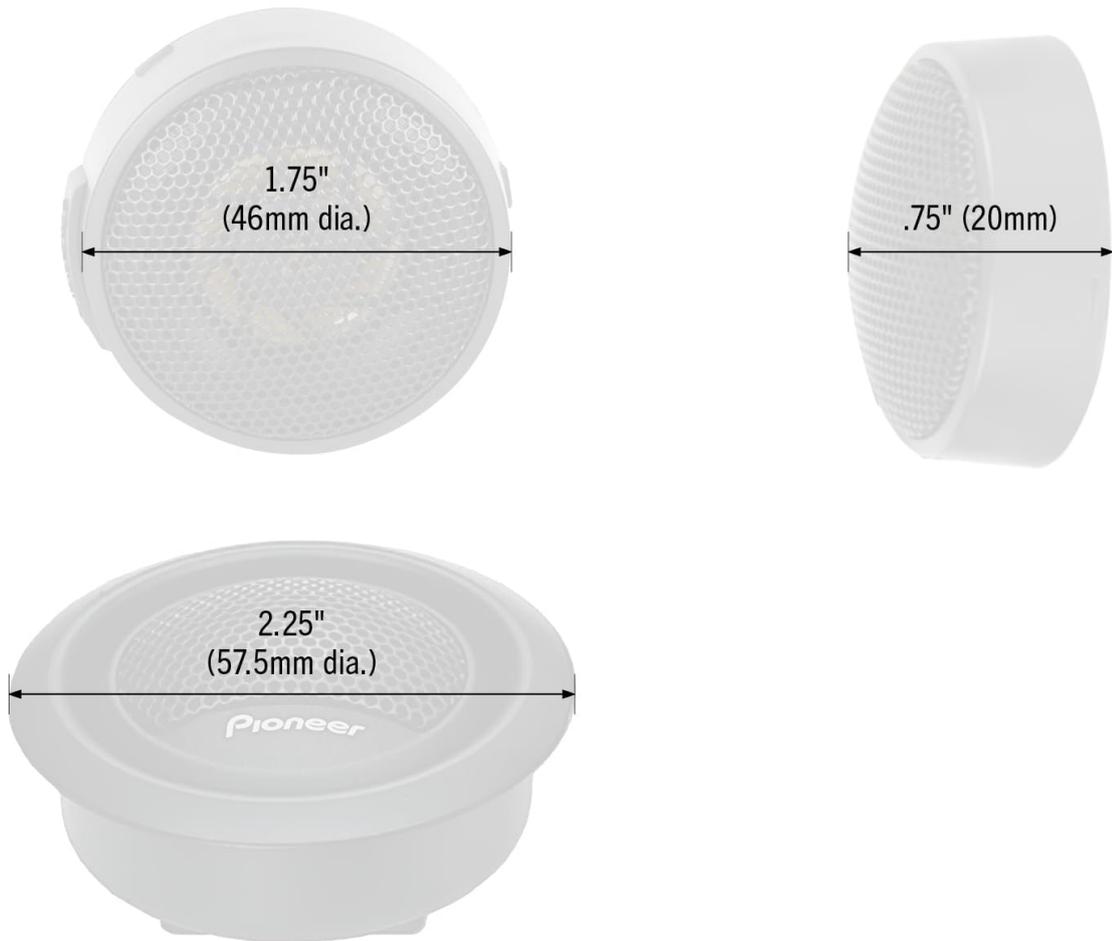


Image: Detailed dimensions of the Pioneer TS-T110 tweeter, showing diameter and depth for accurate installation planning.

Wiring:

1. Each tweeter includes an in-line crossover capacitor. This capacitor acts as a high-pass filter, ensuring only high frequencies reach the tweeter. Do not bypass this component.
2. Connect the black wire from the tweeter's integrated wiring to the positive (+) speaker output wire from your car stereo or amplifier.
3. Connect the black/white wire from the tweeter's integrated wiring to the negative (-) speaker output wire.
4. Ensure all connections are secure and properly insulated to prevent short circuits and ensure optimal sound quality. Soldering connections is recommended for reliability.

Note: Always refer to your vehicle's wiring diagram and your amplifier's manual for specific connection details.

4. OPERATION

The Pioneer TS-T110 tweeters are passive components and do not require separate power controls. Once correctly installed and connected to your car audio system, they will operate in conjunction with your head

unit and amplifier.

- **System Integration:** Ensure your car audio system's amplifier and head unit are properly configured to send appropriate high-frequency signals to the tweeters.
- **Sound Adjustment:** Use the equalizer and balance/fader controls on your head unit to fine-tune the sound to your preference. Adjusting the treble settings can further optimize the tweeter's output.
- **Volume Levels:** While the tweeters can handle up to 120 watts peak power, avoid prolonged listening at excessively high volumes to prevent potential damage to the speakers and your hearing.

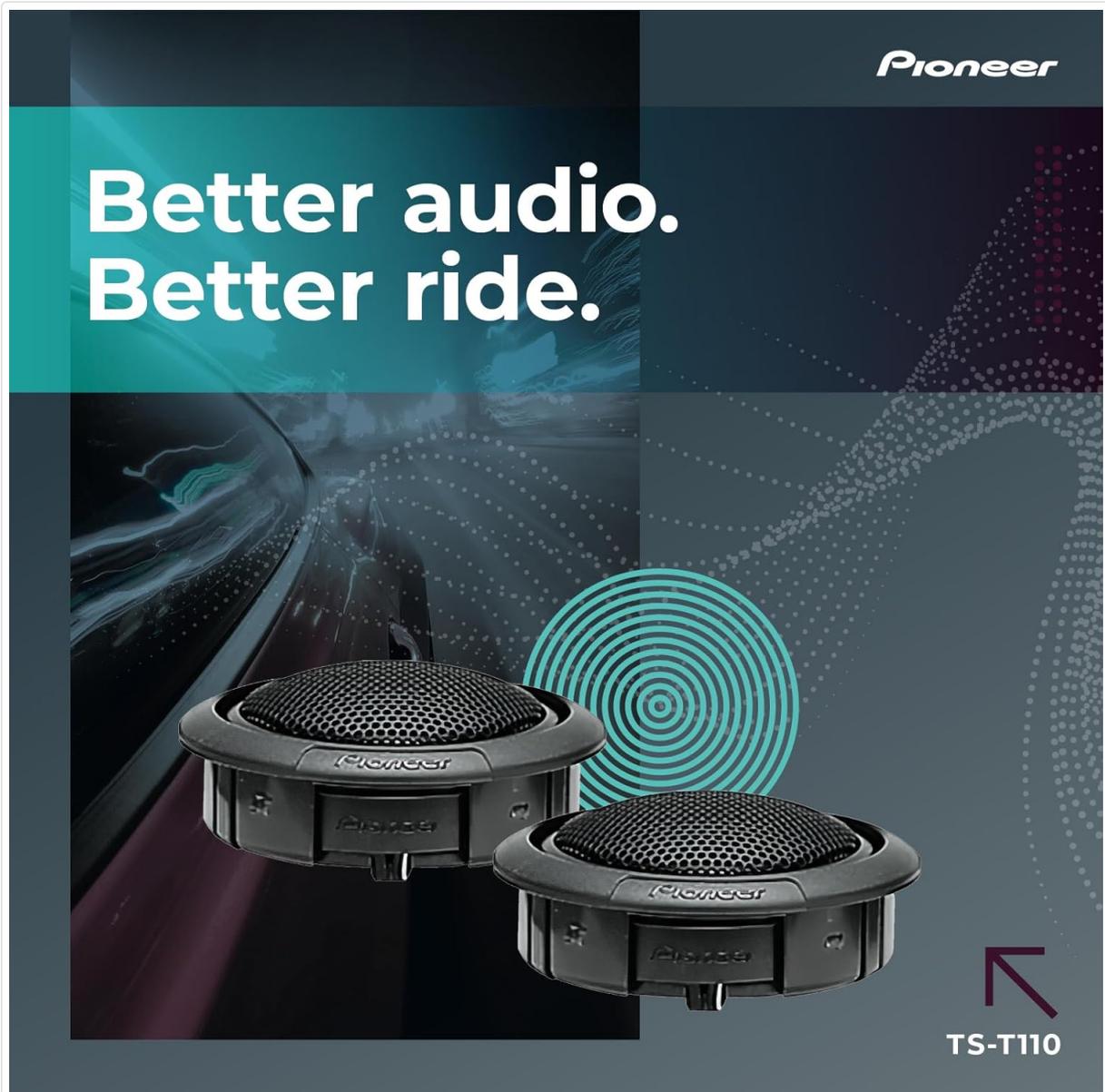


Image: A pair of Pioneer TS-T110 component tweeters, ready for installation into a car audio system.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Pioneer TS-T110 tweeters, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the tweeter grilles and surfaces with a soft, dry cloth. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the materials.
- **Protection:** Ensure the tweeters are installed in locations where they are protected from direct sunlight, extreme temperatures, and moisture.
- **Inspection:** Periodically check the wiring connections for any signs of wear, corrosion, or looseness.

Re-secure or repair as necessary.

6. TROUBLESHOOTING

If you experience issues with your Pioneer TS-T110 tweeters, consider the following troubleshooting steps:

- **No Sound:**

- Check all wiring connections from the tweeter to the amplifier/head unit. Ensure they are secure and correctly polarized (+ to +, - to -).
- Verify that the amplifier or head unit is powered on and functioning correctly.
- Confirm that the audio source is playing and the volume is turned up.

- **Distorted Sound:**

- Reduce the volume level. Distortion often occurs when the amplifier or speakers are overdriven.
- Check the amplifier's gain settings. If set too high, it can cause distortion.
- Inspect the tweeter for any visible damage to the cone or surround.
- Ensure the in-line crossover capacitor is correctly installed and not damaged.

- **Weak or Muffled Highs:**

- Adjust the treble settings on your head unit or amplifier.
- Check the tweeter's placement. Obstructions or poor angling can affect sound dispersion.
- Verify that the tweeter's wiring is not reversed (out of phase).

If these steps do not resolve the issue, contact Pioneer customer support or a qualified car audio technician.

7. SPECIFICATIONS

Model Number	TST110
Speaker Type	Component Tweeter
Tweeter Diameter	7/8 Inches (22 Millimeters)
Mounting Type	Flush Mount / Surface Mount
Material	Metal, Plastic
Maximum Power Handling	120 Watts
Continuous Power Handling	40 Watts
Frequency Response	2500 Hz - 30,000 Hz
Sensitivity	90 dB
Impedance	4 Ohms
Product Dimensions	1.13"D x 2.25"W x 2.25"H
Item Weight	4 Ounces

Included Components	(2) Tweeters, (2) Flush mount cups, (2) Flush mount backplates, (2) Double sided self-adhesive foam mounting pads, (2) Threaded posts
UPC	806300039654, 012562448787, 804066792967

8. WARRANTY AND SUPPORT

The Pioneer TS-T110 7/8-Inch Component Tweeter comes with a limited warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Pioneer website.

For technical assistance, troubleshooting beyond the scope of this manual, or to inquire about warranty claims, please contact Pioneer customer support. Contact information can typically be found on the Pioneer website or in your product packaging.

Note: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.