



THUNDER
AXE HIGH-END COMPONENTS 6.0



OWNER'S MANUAL

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INTRODUCTION

Thank you for choosing MTX to help reach your ultimate goal with your vehicle. MTX TXC6.0 woofers are exceptional stand alone bass drivers or they can be added to a full TXC High-end Component system and create a 3-way system with unparalleled musical detail. This full MTX TXC High-end Component system and a matching MTX amplifier with StreetWires connections will put you in a better position to hear, feel, and experience all of the music the artist intended.

The TXC6.0 woofers are part of the TXC series of component speakers which are the best in the MTX offering of full-range speakers. They offer many added features that are designed for the distinguished listener. Bi-amp configuration and the 3-way system are just some of the TXC6.0 features that will help reproduce the music with exceptional dynamics and detail regardless on mounting location and position within the vehicle. The TXC series also offers complete component systems and a separate tweeter that further define the musical experience. The TXC.1 is an additional tweeter that adds a new dimension to the imaging and greatly increases sound quality with superior high frequency response. Call 1-800-CALL-MTX for more information.

SPECIFICATIONS

Model	TXC4.1	TXC5.1	TXC6.1	TXC6.0	TXC.1
Description	4" Components	5-1/4" Components	6-1/2" Components	6-1/2" Woofer	25mm Tweeter
Midbass Cone	Glass Fiber with Aluminum Deposition	N/A			
Tweeter	Teteron Dome	Teteron Dome	Teteron Dome	N/A	Teteron Dome
Impedance	4 Ohm	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Frequency Response	50Hz-25kHz	45Hz-25kHz	43Hz-25kHz	43Hz-250Hz	3.5kHz-25kHz
Power (Watts RMS)	100	125	150	150	75
Peak Music Power	200	250	300	300	150
Sensitivity @ 2.83V	88dB	90dB	91dB	91dB	91dB
Voice Coil	1.25"	1.5"	1.5"	1.5"	25mm
X-Max	2.5mm	4.8mm	4.8mm	4.8mm	N/A
Woofer Mounting	1-3/4"	2-1/4"	2-1/4"	2-1/4"	N/A
Woofer Cut-out Dia.	3-1/2"	4-1/2"	5-19/32"	5-19/32"	N/A
Tweeter Mounting Depth	1"	1"	1"	N/A	1"
Tweeter Cut-out Dia.	1-7/8"	1-7/8"	1-7/8"	N/A	1-7/8"
Tweeter Mounting Options	Angle, Flush, Surface	Angle, Flush, Surface	Angle, Flush, Surface	N/A	Angle, Flush, Surface
Crossover Adjustable Tweeter Level (dB)	0, -1.5, -3, -4.5, -6	0, -1.5, -3, -4.5, -6	0, -1.5, -3, -4.5, -6	N/A	0, -1.5, -3, -4.5, -6
Off-axis Compensation	0°, 30°, 60°	0°, 30°, 60°	0°, 30°, 60°	N/A	N/A
Bi-amp Inputs	Yes	Yes	Yes	Yes	N/A

BEFORE STARTING

MTX recommends that you have your new speakers installed by an authorized MTX retailer, preferably MECP certified. If you do decide to do it yourself, make sure you have read the instructions carefully and that you have the following tools:

- Electric drill
- Phillips bit or screwdriver
- 1/8" bit
- Door panel puller
- Wire cutters/crimpers
- Metal cutting tool
- Safety glasses
- 2mm hex wrench
- X-acto knife

Throughout installation, keep in mind the ultimate objective of creating an ideal soundstage and exceptional imaging. This refers to the experience you get when you sit in your seat with your head up and shoulders straight, close your eyes, and listen. Where does the music seem to be coming from? In an ideal world, you would hear all music from front and center, meaning it sounds like a band is performing on your hood. Raising the soundstage is a very important process and every option should be considered in order to have your sound as up and in front as possible.

Removing the Door Panel

Please be aware that today's cars have door panels that are not designed to come apart easily; they are designed by the factory to sit tight against the door and not rattle. It is important to note that if the proper procedures are not followed, the door panels can easily become damaged and make them fit improperly when you're trying to reinstall them.

Use a door panel puller to remove the door panel, and be aware there are often hidden screws that, if overlooked, can cause the panel to crack or break when force is applied to remove door panel. It might be a good idea to do some research on your specific car to be sure they are all removed before continuing. Even a new car owner needs to be aware of this potential issue. Buying a new door panel is an expensive process so please take note of the potential for damage.

With the door panel off, it is a perfect time to add sound dampener. The main goal of sound dampeners is to add mass to the metal in the door, causing less rattle and "ring" which will help to improve the overall sound of your new speakers. It also helps prevent against outside noise by adding insulation. Sound dampening material can be purchased from your local retailer and is available in many different forms, and kits, for many different applications. Please make sure you purchase the correct type for your specific project.

Note: Before cutting anything, please use common sense and make sure that no wires or glass will interfere with cutting tools. ALWAYS WEAR PROPER SAFETY GLASSES. Be sure all wires are clear of moving parts such as window crank mechanisms and trunk hinges. Use rubber grommets when running wires through sharp edged metal holes, which may wear through the wire's insulation.

Do not mount speakers where they could come in contact with:

- The door's window glass
- The window crank handle or gear assembly when rotated
- The trunk springs, shock towers, or trunk lid
- The gas tank or fuel lines

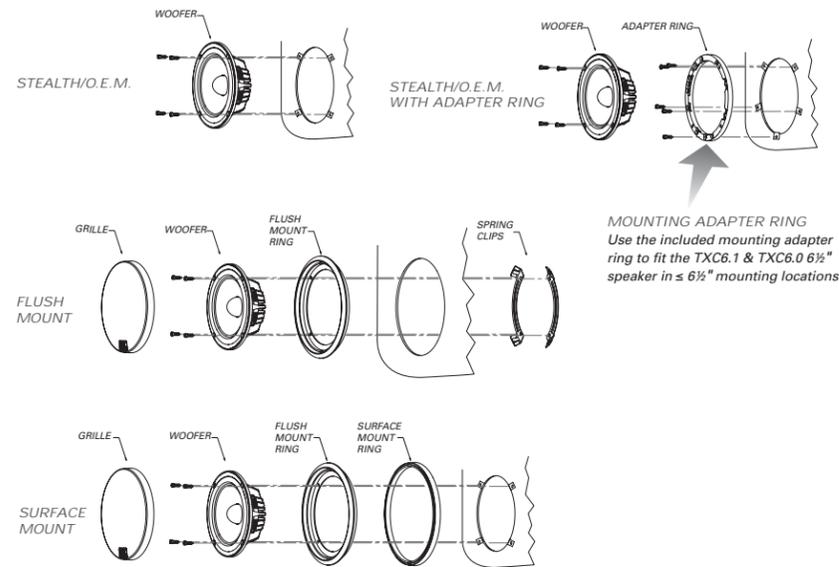
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BASS MOUNTING

To get the best possible music reproduction, it is important to isolate the sound that is produced from the rear of the speaker from the sound that is produced from the front of the speaker. To isolate the front from the back wave, make sure the speaker is mounted in a baffle or plate, so that the back of the speaker is in a sealed chamber.



Mounting

- Select the mounting location (door panels, rear side panels, rear deck, etc...)
- Using the supplied templates, mark the mounting holes on the door panel or rear deck
- Drill or cut the required holes as needed
- Install the units as illustrated in the diagrams

***Note: The TXC6.1 and TXC6.0 are supplied with plastic mounting adapters. The adapters are used to convert the smaller basket sizes needed for European models to the larger domestic sizes. The plates will allow a tight and accurate fit, decreasing the need to fabricate adapters out of MDF or plastic.**

For answers to further questions, please call 1-800-call-MTX

CROSSOVER MOUNTING

When choosing the mounting location of the crossover, accessibility is important. Some adjustments may be made after the components have been installed, so convenient positioning of the crossover is crucial. Also, the crossover has electronic components that must be mounted so it does not come in contact with moisture.

WIRING

When installing these woofers, consider the age of the factory wiring and gauge (size) of wire. If the vehicle is an older model or was pre-wired with small wire (18 gauge or less), running new high performance wire (<http://www.streetwires.com/products/speakerCable/microUltraCable.cfm>) will be necessary. The speaker wire should run from the amplifier's output terminals, under the carpet and through the factory rubber boot (loom) that protects the wires in the inner door jam. If the factory boot cannot be used, take other measures to protect these wires as best you can. Sometimes the door has to be completely removed to use the factory boot. If this is something that you do not feel comfortable doing, please ask a professional to help you. The wires should originate from the amplifier and attach to the crossover inputs.

CROSSOVER CONNECTIONS

Included with each TXC6.0 woofer system is a 2-way high-pass/low-pass 12dB per octave crossover network. The crossover network allows the TXC6.0 driver to recreate frequencies within a precisely-designed range so that it does not become distorted by trying to reproduce frequencies that it is not physically able to. It ensures that the bass driver does not receive high frequencies that are meant for the midrange and tweeter. The high-pass/low-pass 12dB per octave design complements the TXC6.0 woofer or can be used in addition to a TXC component system to provide greater musical detail.

Note: The TXC6.0 crossover system flips the polarity of the High Frequency (HF) outputs so that the 3-way system sums to have a flat frequency response. Please take note of this if you ever add an additional TXC.1 to your system. With the TXC.1, you will have to flip polarity on the output of the additional tweeter to sum with the 3-way system.

Stand Alone System

When using the TXC6.0 woofer as a stand alone bass driver, connect the crossover by connecting the positive and negative wires from the amp to the LF+ and LF- or HF+ and HF- input terminals on the crossover respectively. Then connect the woofer's positive and negative wires to the LF+ and LF- output terminals on the crossover respectively.

Three-Way System

One of the most significant features of the TXC6.0 woofer is the separate crossover and its ability to connect to a 2-way TXC system and become a true 3-way system. This splits the lower frequencies between the existing midrange and the TXC6.0 woofer to make each speaker responsible for fewer frequencies and allows clearer, more accurate reproduction. While the TXC's sound quality is already the best in the market, this 3-way system creates an even better musical experience with more precise frequency response.

When creating a 3-way system and connecting to an existing TXC 2-way crossover, the terminals for the TXC6.0 woofer's crossover are connected in between the amp and the other components' crossover. First, connect the positive and negative wires from the amp to either the LF+ and LF- or HF+ and HF- input terminals on the TXC6.0 crossover respectively. Next, connect the positive and negative wires from the TXC6.0 woofer to the LF+ and LF- output terminals on the crossover. Finally, connect the TXC6.0 crossover's HF+ and HF- output terminals to either the WF+ and WF- or TW+ and TW- input terminals on the crossover for the TXC component system.

See the drawing on the next page for more information.

Note: Pay close attention to the markings on the crossover to be certain the correct speakers are in the correct outlet. If a tweeter is accidentally asked to play the frequencies reserved for a mid-bass driver, it will be damaged.

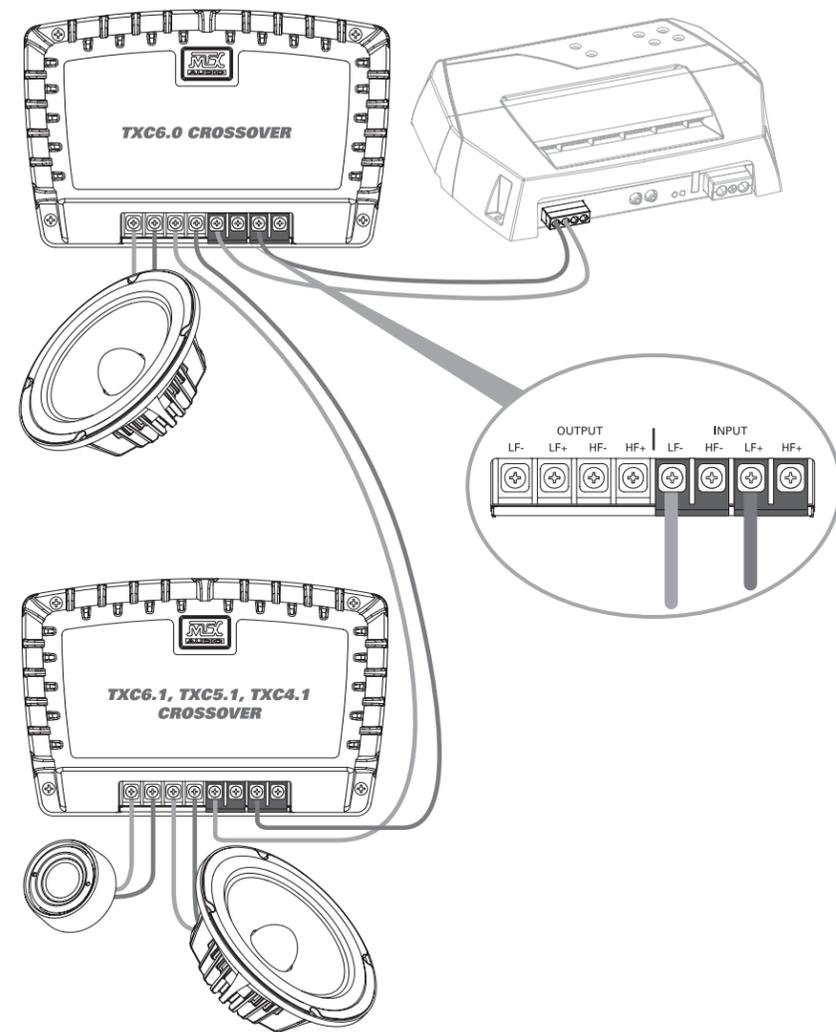
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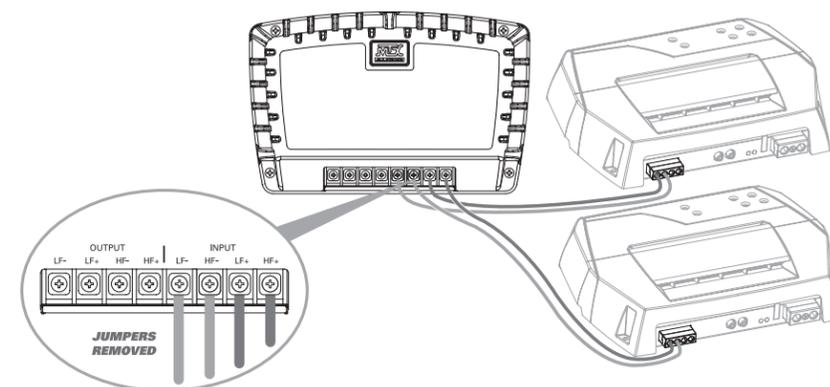


CROSSOVER CONNECTIONS



BI-AMP CONFIGURATION

These crossovers feature Bi-amp connections so that when used in a 3-way configuration the components can be wired to drive the TXC6.0 woofer and the TXC component system independently using two amplifiers. When using the 3-way components in the Bi-Amp configuration you are going to need two stereo amps or one four channel amp to run the components. You will need to remove the Bi-amp jumpers from the input connection points of the TXC6.0 crossover. Connect the desired amp or channels to the HF+ and HF- input. The second amplifier, or third and fourth channels of the 4-channel amplifier, will be connected to the LF+ and LF- input on the crossover. When the crossover is set up in this configuration, the final load will be 4 ohms.



Note: It is important to make sure the gain of each amplifier is matched. Final gain level adjustments should be made using the crossover settings.

Note: Adding the TXC6.0 woofer to a full TXC component system can dramatically affect the balance between your tweeter and the 0, 30, and 60 degree setting of your existing midrange. You may need to change your midrange off-axis settings and readjust the tweeter attenuation in order to achieve the optimum balance. See the TXC6.1, 5.1, 4.1 Owner's Manual for instructions on how to make these adjustments.

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WARRANTY STATEMENT

MTX Audio Thunder Axe High-End Components purchased in the United States from an authorized MTX Audio dealer are guaranteed against defects in material and workmanship for a period of ONE YEAR from the date purchased by the end user, and limited to the original retail purchaser of the product. Product found to be defective during that period will be repaired or replaced by MTX Audio at no charge. This warranty is void if it is determined that unauthorized parties have attempted repairs or alterations of any nature. Warranty does not extend to cosmetics or finish. Before presuming a defect is present in the product, be certain that all related equipment and wiring is functioning properly. MTX Audio disclaims any liability for other incurred damages resulting from product defects. Any expenses incurred in the removal and reinstallation of products are not covered by this warranty. MTX Audio's total liability will not exceed the purchase price of the product. If a defect is present, your authorized MTX Audio dealer may be able to effect repairs. Proof of purchase is required when requesting service. Please retain your sales receipt and take a moment to register your product on line at mtx.com.

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Due to continual product development, all specifications are subject to change without notice.
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