



# ***THUNDER*** ***AXE HIGH-END COMPONENTS.1***



OWNER'S MANUAL

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### INTRODUCTION

Thank you for choosing MTX to help reach your ultimate goal with your vehicle. MTX TXC.1 tweeters have exceptional high frequency handling and will greatly increase sound quality in any system. Adding them to a full 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 TXC.1 tweeters 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. Five levels of tweeter attenuation, a teteron dome, and three mounting options are just some of the TXC.1 features that 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 an add-on mid-bass driver that further define the musical experience. The TXC6.0 is an additional woofer that can change a 2-way system into a true 3-way system and add yet another dimension to the imaging. 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
- 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

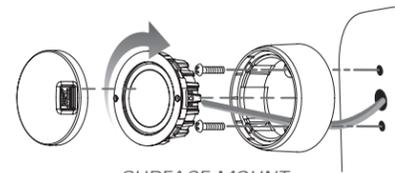
### TWEETER MOUNTING

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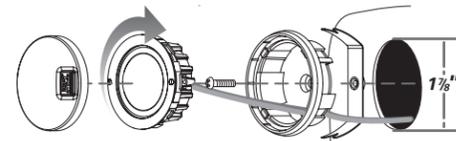
When positioning the tweeter for the best imaging, aim the passenger side tweeter toward where the driver's head will be. The same process should also be completed on the driver's side tweeter but this time you'll aim the tweeter toward where the passenger's head will be. Positioning the tweeters in this manner will help to set up a very solid soundstage.



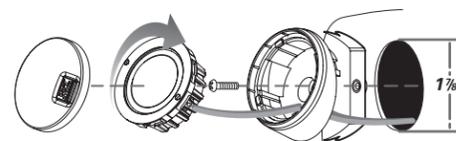
SURFACE MOUNT

**Surface Mounting**

- Select mounting location. Mark wire hole and screw locations using the surface cup as a template.
- Drill holes for tweeter wires and mounting screws
- Using the supplied screws, attach the surface cup to surface
- Run tweeter wires through the hole and twist the tweeter into the cup
- Connect the tweeter wires to the supplied crossover



FLUSH MOUNT



ANGLE MOUNT



INSTALLATION KEY

**Flush and Angle Mounting**

- Select mounting location and mark a 1-7/8" diameter hole with supplied template
- Cut out the 1-7/8" hole (a hole saw is recommended for metal and hard plastic surfaces; an X-acto knife for any other surface)
- Place the supplied bevel headed screws through the flush/angle cup and thread into the mounting clip, but do not tighten
- Take the assembled flush/angle cup and mounting clip and place them into the 1-7/8" diameter hole, making sure the mounting clip goes completely through the hole
- Tighten the screw in the base of the flush cup until the cup is completely tight
- Split tweeter wires and run through the holes and twist the tweeter into the cup

**CROSSOVER MOUNTING**

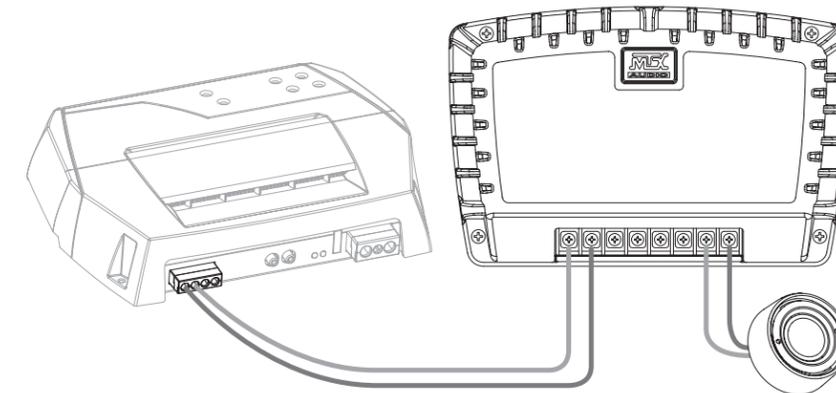
When choosing the mounting location of the crossover, accessibility is important. Adjustments to the on-/off-axis setting and tweeter attenuation are to be made after the components have been installed, so convenient positioning of the crossover is crucial. Also, the crossover has electronic components that must be mounted so it does not come in contact with moisture.

**WIRING**

When installing these tweeters 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 TXC.1 tweeter system is a 1-way 18dB per octave separate crossover network. The crossover network allows each tweeter to independently recreate frequencies within a precisely-designed range so that they do not become distorted by trying to reproduce frequencies that they are not physically able to. Basically, it ensures that the tweeter does not receive low bass notes which could damage it. The 18dB per octave design complements the tweeter to provide greater musical detail.



*Note: Pay close attention to the markings on the crossover to be certain the speakers are in the correct outlet. If the tweeter is accidentally connected to the wrong crossover terminal, it will be damaged.*  
**TWEETER ATTENUATION ADJUSTMENT**



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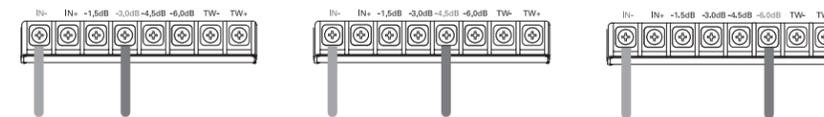
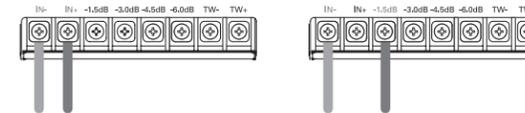
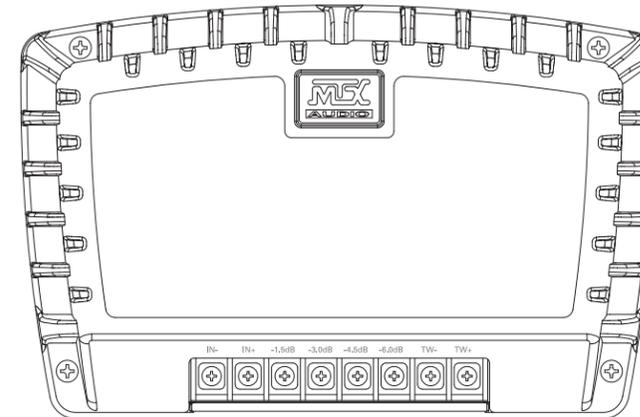




When setting the attenuation of your tweeter, you are going to want to adjust this level by the distance from tweeter to listener as well as personal preferences. The attenuation has five levels that range from 0dB to -6dB. Generally, this would be set up with 0dB being further away, and -6dB being closer, to the listener's ear. If you have the attenuation set at 0dB and the speakers seem too bright, adjust the level downward until it matches your personal taste. If the speakers seem too dim or quiet, adjust the tweeter upward.

TXC.1 attenuation adjustments are on the connection terminals of the crossover. Begin by connecting the amplifier's negative wire to the IN- terminal; this will stay connected no matter what tweeter attenuation works best for your specific needs. If you connect the amplifier's positive wire to the IN+ terminal, the tweeter attenuation is set at 0dB. If you connect it to the -1.5dB terminal, that will be the tweeter attenuation. Test all the tweeter attenuations from 0dB to -6.0dB in order to see what sounds best for your particular situation.

**Note:** Adding the TXC.1 tweeters to a full TXC component system can dramatically affect the balance between your existing TXC tweeter and the 0, 30, and 60 degree setting of your midrange. After setting the TXC.1 tweeter to a comfortable level, you may need to readjust the tweeter attenuation and midrange off-axis adjustment on your full TXC component system 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](http://mtx.com).

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