

TWEP51 OWNERS MANUAL

Congratulations on your purchase of the revolutionary TBI TWEP51 car tweeter. Your new tweeters are HDSS® certified and therefore guaranteed to improve the sound in a way you never thought possible. Please read these instructions carefully before attempting installation of your new tweeters. When properly installed your TBI deluxe tweeters will give you years of enjoyment. Your TWEP51 Tweeters come with 1 year limited warranty against manufacturers defects. Retain your invoice for proof of purchase.

Your box should include the following items:

- 2-TWEP51 tweeters for flush or surface mounting
- 2-surface mount enclosures with angle adjustment
- 2-surface mount enclosures with fixed angle
- 2-flush mount enclosures for use with retaining rings
- 2-flush mount enclosure retainer rings
- 1-hardware bag - flush mount hardware 4 screws -4 capture nuts- 2 foam pads
- 2-wiring harnesses with 6db crossover network included (6.6uf film 100 v)

INSTALLATION

First you must chose where you will mount the tweeters. Ideally it is best to locate the tweeters near the speakers in which they will provide support. We recommend that you decide on using the speakers which will provide your main front sound stage or point of presentation. This is the most realistic position to enhance if only two tweeters are to be used. Locate them as close as you can to your front speakers using the angle mounting hardware to focus the main high frequency energy high and to opposite sides of the car.

In order to connect your new tweeters you will need to gain access to the left front and right front wires which are connected to their respective speakers. In some cases when your vehicle is already equipped with conventional tweeters you will have to disconnect them. In most cases these tweeters are located at heights which represent a great distance from the speakers that are associated with them. This is because of the limitation of conventional tweeters in their directivity and the breakup that is associated with these products. This is not the optimum position although your new tweeters can operate in those positions successfully. Remember, just as with high quality home speakers, the tweeters work best when located close to the midrange source.

Figure 1 illustrates the basic position of the front speakers and their associated wiring. If you are going to put your new tweeters in the same position you will have to make sure that they will fit. The crossover associated with your factory speakers may not be optimal when replacing the tweeter but in this case you cannot use the included crossover in series with the original. It is best to use the supplied crossover connected direct to the proper channel for best performance if the original or existing crossover capacitor has a value which is much different

than the high quality 6.8 uf film capacitor supplied. Be sure to connect the wiring in the proper phase for best performance and imaging.

If your front speakers are coaxial then it is best to disconnect the tweeter or cut one wire going to the tweeter for best performance. In using the TWEP51 it is important that they are the only source for the high frequencies. It is okay to use multiple TWEP51 tweeters when using additional full range sources such as the rear deck speakers. This will provide a central image for most stereo sources when the front and rear fader is balanced. The rear speakers are best setup to function for lower frequencies so as to provide a vivid front stage for your sound presentation.

When flush mounting your tweeters you will need to cut a 1 15/16 (45mm) with 9/16 (14mm) depth requirement for the flush mounting retainer cup. Use the flush mount retaining rings to secure the enclosure from the back side of the hole. For all other flush mounting enclosures please use the holes at the base of the enclosure for marking your mounting holes.

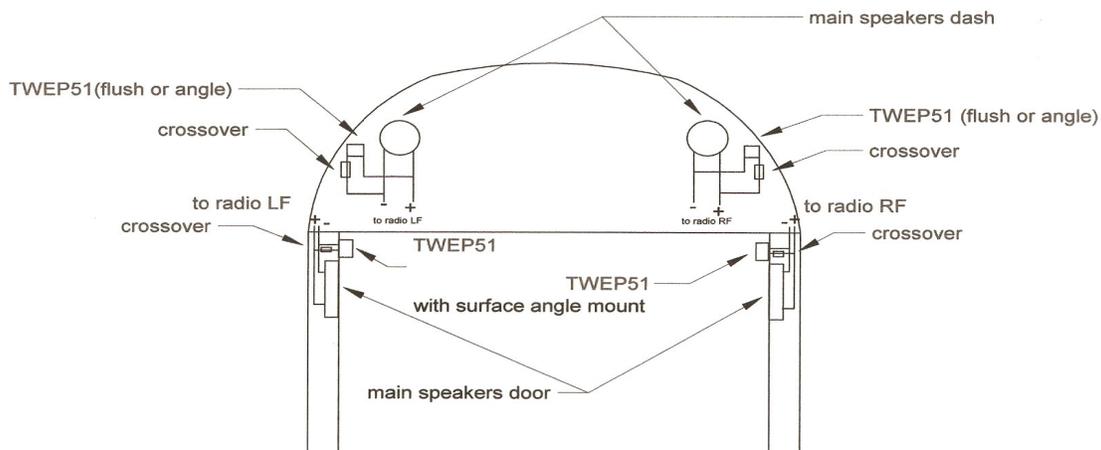
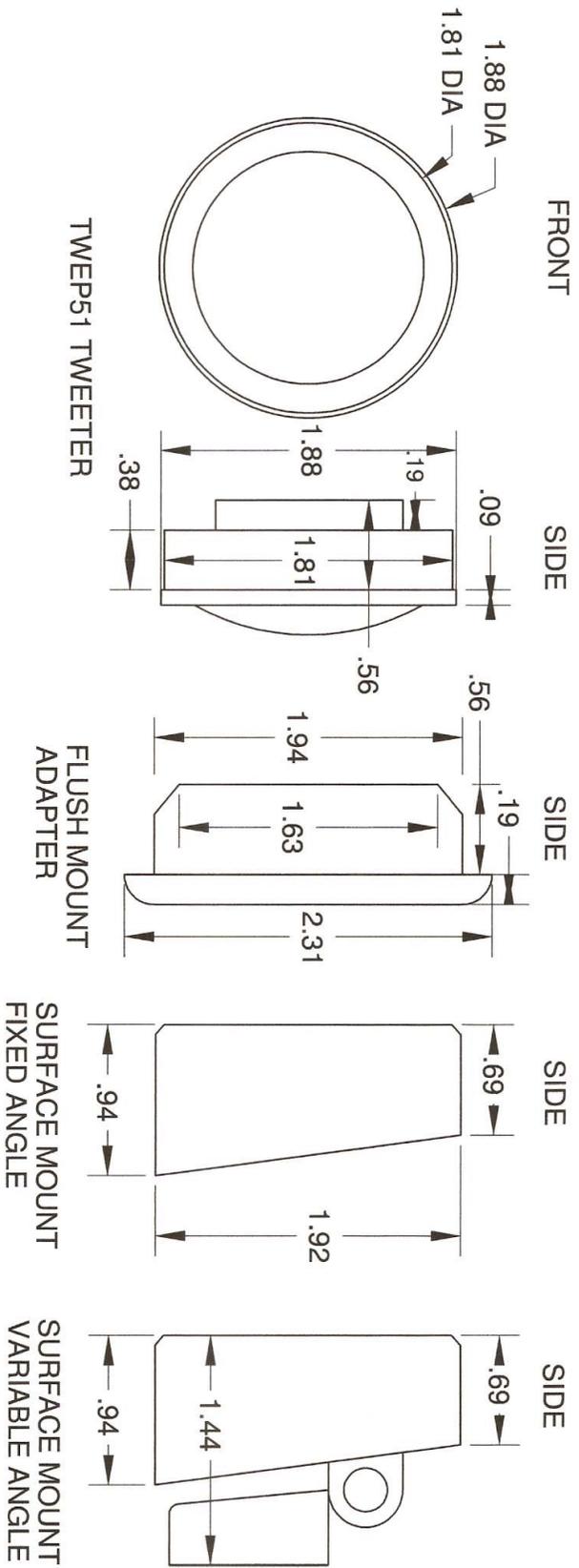


FIG 1

The above drawing represents typical situations and the installations can vary depending on the vehicle. It is important to follow the above instructions as accurately as possible but excellent performance can be attained if you must position your tweeters differently. It is always best to angle the tweeter opposite your seat toward your head when the tweeters are located close to the floor. Flush mounted dash mounted tweeters can use the front windshield to reflect all of the high frequency energy into the cabin and is an excellent location for dash mounted systems. Flush mounted tweeters mounted in the rear shelf of sedans can also use the rear window to reflect their high frequencies into the cabin. Keep tweeters and midrange as close as you can regardless of the final positions.



TWE51 TWEETER/ACCESSORY MOUNTING DIMENSIONS