

# **TWEETERSPL6C.2 1" 25mm 40hm Silk Neodymium Dome Tweeter Pair 100w RMS**



## **Instruction manual**

Thank you for choosing Bassface. From the simplest connector to our top of the range amplifier - every element of these products has been designed to give you the best possible performance for your money. Please take the time to read these instructions carefully as they contain useful and important information. Modern high power audio systems can generate voltages at the speaker similar to mains operated equipment - for some reason everyone seems to ignore or forget this. Your wiring needs to be good to be safe. Please remember this and take your time. Please exercise caution when setting volume levels - powerful audio equipment can easily produce enough sound to permanently damage hearing. Remember that audio competitors use ear protection when operating and competing. Do remember that incorrect installation or abuse is not covered under warranty - please make sure that your installation and any partnered product is suitable and compatible. If you are unsure please seek qualified advice before proceeding. Always use appropriate hand and eye protection when working with tools, and always work within your capabilities as an installer. We offer a 12 month manufacturer warranty via your distributor or retailer. Please retain your purchase receipt as proof of purchase. Please note that Bassface operates a policy of continuous product development and we reserve the right to change specification without prior notice. You can follow our process on our website by reviewing the version history information.

Please note that we sometimes include information inside these manuals which we feel is of potential value to the client on related subjects such as conversion charts, capacitance values or wiring diagrams. Please feel free to copy any of this information since it is in the public domain.



Begin by selecting a suitable location for the installation of the tweeters. When you plan, try to keep the distance between the left tweeter and your left ear and the right tweeter and your right ear as similar as possible. This will improve the sound imaging. There is a trade off, however, as installing the high frequency speakers lower down will also tend to lower the level of the edges of the sound stage. We recommend that testing is undertaken to understand how your particular vehicle reacts to these changes.

If you are simply replacing the OEM tweeters, please be very careful that you do have an appropriate crossover in place. Tweeters are designed to handle only high frequencies and will be irreversibly damaged by full range music. On a modern vehicle with separate tweeters it is normal for the factory unit to have a small capacitor attached to the tweeter so once that is removed it is easy to accidentally hook the bassface replacement up to the cables and thus unwittingly end up with a full range signal and subsequently ruined drivers!

So whether you use a capacitor or a Bassface in line crossover please make sure that there is something between the amplifier and the tweeter! (The exception to this would be where you are using an active crossover on a dedicated feed to the tweeter, in which case please exercise care in setting the level. We recommend beginning at 5Khz for all our tweeters, and then experimenting downwards depending on the required volume level)

When you make the connections, ensure that you use the same polarity left and right. Once the installation is completed it is acceptable to switch the positive and negative wires on one tweeter as you listen to "phase tune" the installation, although bear in mind that the sound will then generally be biased to one side of the car for sound imaging and staging.

Finally, when connecting tweeters (via the crossover!) remember that although they are

small they still represent an electrical load on the amplifier – whether that is a standard car radio or a big aftermarket amplifier. If you add an “extra” pair of tweeters like ours as a “tune up” without disconnecting the standard items this means that you are working your amplifier twice as hard for the frequencies being played. The result of this can be extra unwanted distortion (and therefore damage to the tweeters (both sets), additional heat generated within the amplifier and even amplifier damage. Remember, even if you add tune up tweeters to a system with a pair of standard full range speakers you are still doubling up on high frequency load so always listen carefully for distortion during setup and make sure you understand the electrical limitations of the equipment.

So the important bits are:

- \* Don't put a passive crossover box or capacitor or anything else inside the door of the vehicle between the waterproof membrane and the metal door on the “wet” side. Your kit will last 6 months maximum and will then be corroded and not under warranty!
- \* Don't forget some kind of crossover!
- \* Don't put the connection wires in the back of the tweeter under any kind of stress – they are very fragile as they connect to hair thin cables inside the body of the unit.
- \* Remember a pair of tweeters still counts as “load” on the amplifier when there are other high frequency speakers of any type on those channels (even full range speakers).



