# **PRO-10D4**

Congratulations on your choosing a SUONO subwoofer. For best results, we recommend using one of the acoustic enclosures described below. You can build your enclosure exactly as described or simply use the net volumes and ports specified. Please note the volumes specified are Net Internal Volumes. You must add woofer displacement, port displacement and brace displacements to obtain the Gross Internal Volume. The enclosure dimensions shown are already taking all of this into account. The Sealed Box is the smallest and more natural box, but not as loud. The Ported Box is more dynamic but bigger. The Band-Pass box represents an excellent option for those looking for a more intense bass response.

### **Characteristics**

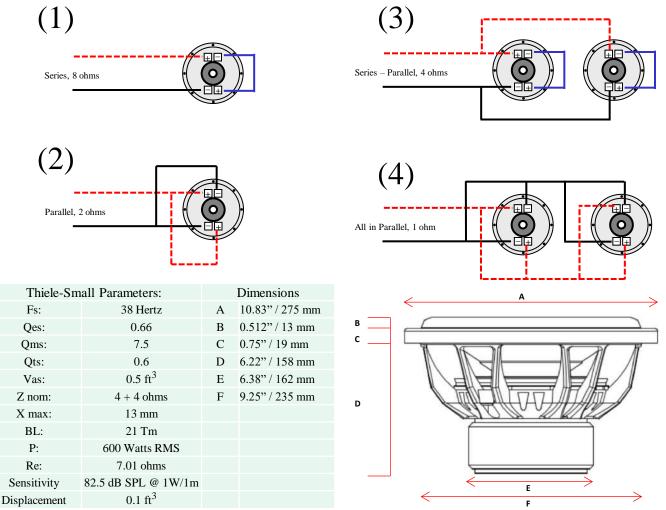
10" subwoofer, dual 4 ohms voice coils, die-cast aluminum basket, Kevlar fiber-reinforced non-pressed pulp cone, sewn-in extended range of motion foam cone suspension, exposed 2.5" four-ply copper high-temperature voice coil with aluminum former, dual poly-cotton spider, double magnet 60 ounces each. Specifications subject to change without notice.

### **Building an Acoustic Enclosure**

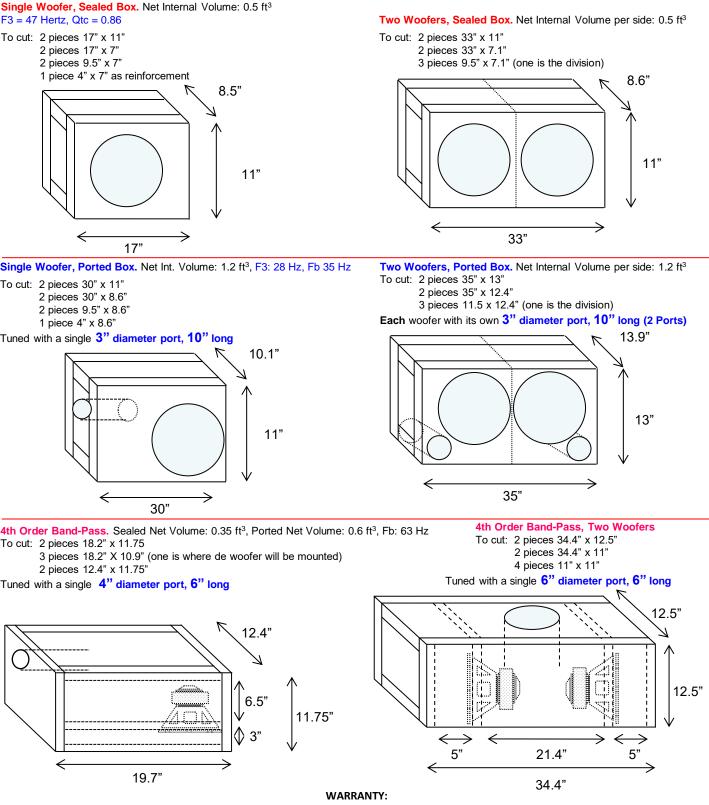
As construction material, we suggest MDF or high-density chipboard at least 3/4 inches thick. Cuts should be made with a table-mounted circular saw or better. It is also convenient to include internal reinforcements to give the box greater solidity. Acoustic enclosures should also always include some fiberglass or dacron inside as an acoustic absorber, taking care that it does not come into contact with the loudspeaker or port. All enclosures should be securely bolted to the car so they don't become a projectile during a collision.

## **Voice Coil connection**

Even though this woofer has two 4-ohm terminals, both terminals form a single winding. Therefore, both coils should ALWAYS be connected. If they are connected in series the impedance goes up to 8 ohms (1), and if they are connected in parallel it goes down to 2 ohms (2). For two subwoofers it is possible to make a series-parallel configuration to get a final impedance of 4 ohms (3), or you can connect all coils in parallel to go down to 1 ohm (4). **Note**: In any parallel connection the length of each wire for each coil must be exactly the same.



**RECOMMENDED SPEAKER BOXES.** In the designs below, the thickness of the wood is 3/4". Always use some kind of internal reinforcement. Add some fiberglass or dacron inside. The reinforcement can be the dividing wood of the double boxes or the one indicated in the individual ones.



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