SOUNDSTREAM

# SM-10W
# 10" MARINE SUBWOOFER

# INSTALLATION MANUAL

Thank you for purchasing a SOUNDSTREAM subwoofer. It is a state-of -the-art product carefully designed manufactured for vehicle use, and has been thoroughly tested to ensure consistent and reliable performance. If you have any question about the operation of your SOUNDSTREAM subwoofer which are not answered by this manual, contact your dealer in the first instance.

## Precautions

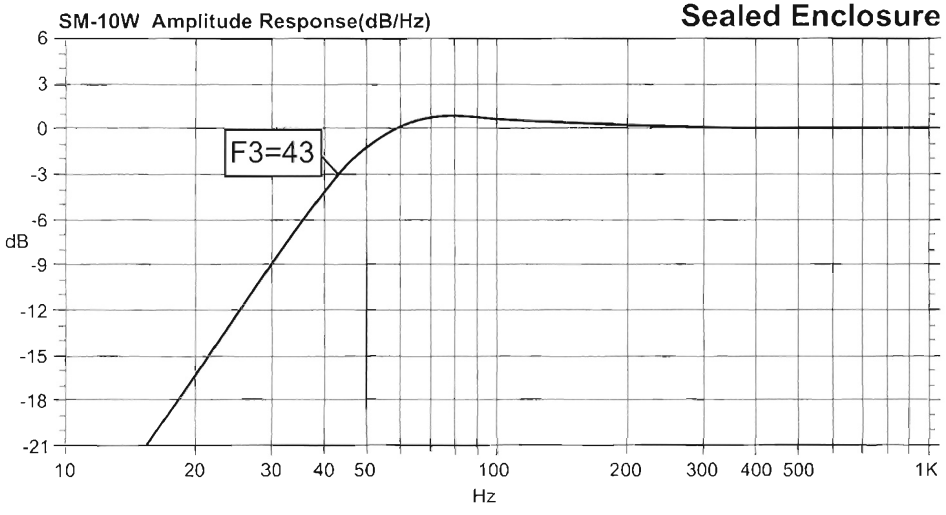
- Before making holes, check the mounting space with supplied template
- To prevent noise pick-up, keep the wiring of this unis away from motors, high-volage leads and other possible noise source.
- To prevent short-circuit, keep all wiring away from moving parts sharp edges.
- Make sure you have carefully read and understood the installation instruction.

# *10" Subwoofer*

- **HIGH QUALITY BLACK CARBON CONE**
- **BUTYL RUBBER SURROUND**
- **WATER-RESISTANT CONSTRUCTION**
- **HIGH STRENGTH 1 PIECE PLASTIC BASKET**
- **DETACHABLE GRILL DESIGN**
- **2" HIGH TEMPERATURE TIL VOICE COIL**
- **60OZ MAGNET ASSEMBLY**
- **500 WATTS MAX**
- **FREQUENCY RESPONSE: 35 HZ - 2 KHZ**
- **IMPEDANCE: 4 OHM**
- **SENSITIVITY: 90dB**
- **INCLUDES ALL STAINLESS STEEL MOUNTING HARDWARE**
- **MOUNTING DIAMETER: 232mm**

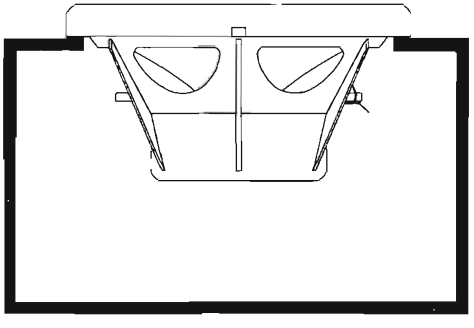
# Recommended Enclosures

**Please Note : Our Suggested box Volumes are given as internal Air requirements.**

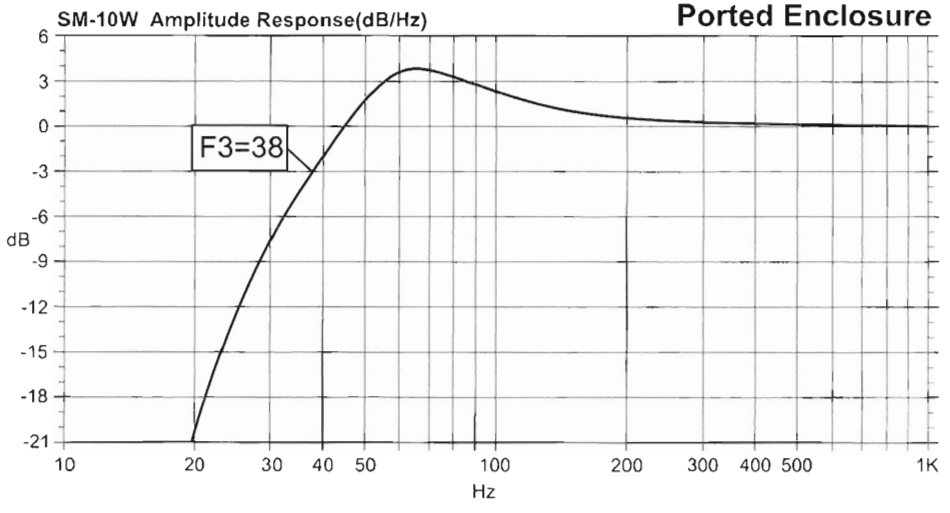



## Sealed Enclosure

**Box Volume : 1.0 Cu Ft**

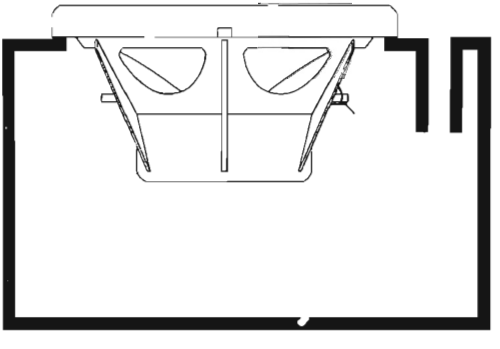


Box is given as internal air volume including driver displacement




**Frequency**

## Ported Enclosure



**Box Volume : 1.0 Cu Ft**

Box is given as internal air volume including driver displacement

**Port Frequency : 38 Hz**
**Port Diameter : 4 Inches**
**Port Length : 7 Inches**

# Product Specifications

| Speaker Impedance | table | 4 ohms |
|---|---|---|
| Free Air Resonance | (Fs) | 37 |
| Total Q Driver @ FS including all resistance's | (Qts) | 0.644 |
| Q of the Driver @ FS including non electrical resistance only | (Qms) | 7.726 |
| Q of the Driver @ FS including electrical resistance only | (Qes) | 0.703 |
| The Driver's compliance expressed as an equivalent Volume of all (cubic Ft.) | (Vas) | 1.074 |
| The Driver's linear displacement (inches) | (Xmax) | 0.242 |
| The DC resistance of the driver's twin voice coils(ohms) | (Re) | 3.6 |
| Thermal Power rating of Driver (Peak) | (Pe) | 500W |
| The Driver's voice coil inductance(millihenries) | (le) | 1.201 |
| The Driver's sensitivity (dB) | (Sens) | 90 |

# Calculating Enclosures

It is difficult to give exact box dimensions that are universal for all cars and trucks. It is for this reason that you must be able to calculate the space in which you have available in order to achieve the proper air volume required.

It is recommended to build your enclosure
from 3/4" thick MDF (medium density fiberboard). Make sure the enclosure is sealed air tight.

## Calculating External Volume

1)To calculate box volume, measure the outside Width x Height x Depth of the enclosure. Example 12" x 14" x 9" = 1512"

2)Next you must convert cubic inches into cubic feet. To do this, You must divide the cubic inch total by 1728". Example 1512 ÷ 1728= .875 Cubic feet

## Calculating Internal Volume

1)To calculate the internal (net) volumn of the above box you must first multiply the thickness of the wood you are using by Two (2) Example; 3/4" x 2"=1.5"

2)Next Subtract 1.5 from each of the outside measurements of the box.
Width 12-1.5=10.5 Height 14-1.5=12.5 Depth 9-1.5=7.5

3)Multiply the new totals (H x W x D) Example : 10.5 x 12.5 x 7.5=984.375

4)Next you must convert cubic inches into cubic feet.To do this,you must divide the cubic inch total by 1728" Example 984.375÷1728=. 5696 Cubic feet