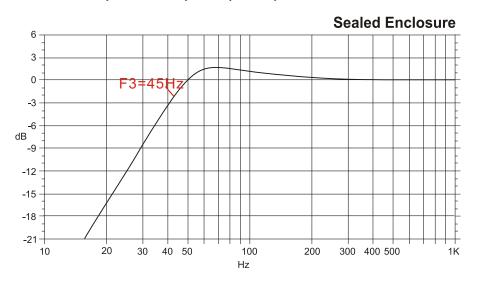
# **User's Manual** 12-INCH DUAL VOICE COIL SUBWOOFER NX12FD NX12FD 12-INCH DUAL VOICE COIL SUBWOOFER BOSS Audio Systems • 3451 Lunar Court • Oxnard, CA 93030 www.bossaudio.com AUDIO SYSTEMS 800.999.1236 tech support: www.bossaudio.com/support

### **Recommended Enclosures**

Please note: Our recommended box volumes are given for internal air requirements.

NX12FD Amplitude Response(dB/Hz)



Frequency

Sealed Enclosure

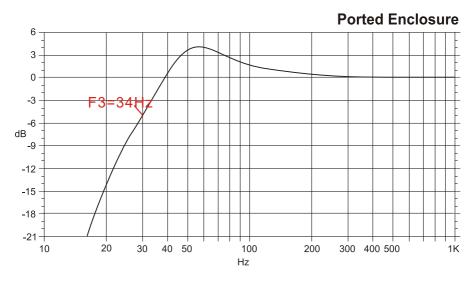


Box Volume: 0.63 Cu Ft

These woofers are recommended to be used with sealed enclosures

Box is given as internal air volume including driver displacement

#### NX12FD Amplitude Response(dB/Hz)



**Frequency** 

## **Ported Enclosure**



Box Volume: 0.92 Cu Ft

Box is given as internal air volume including driver displacement

Port Frequency: 39 Hz

Port Diameter : 3 Inches Port Length : 9 Inches

## **Product Specifications**

Speaker Impedance	table	2 ohms	4 ohms	8 ohms	
Free Air Resonance	(Fs)	39.5Hz	39.5Hz	39.5Hz	
Total Q Driver @ FS including all resistance's	(Qts)	0.534	1.087	0.548	
Q of the Driver @ FS including non electrical resistance only	(Qms)	7.213	7.242	7.254	
Q of the Driver @ FS including electrical resistance only	(Qes)	0.642	1.279	0.635	
The Driver's compliance expressed as an equivalent	(Vas)	1.426	1.507	1.562	
Volume of all (cubic Ft.)					-
The Driver's linear displacement (inches)	(Xmax)	0.32	0.32	0.32	
The DC resistance of the driver's twin voice coils(ohms)	(Re)	1.8Ω	3.6Ω	7.2Ω	
Thermal Power rating of Driver (R.M.S./Peak)	(Pe)	900w/1800w	900w/1800w	900w/1800w	
The Driver's sensitivity (dB)	(Sens)	95dB	95dB	95dB	

## 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**

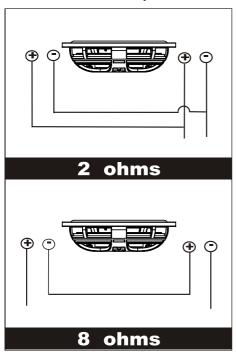
- 1) To calculate box volume, measure the outside Width x Height x Depth of the enclosure. Example 12" x 14" x 9" = 1512"
- 2) Next you must convert cubic inches into cubic feet. To do this, You must divide the cubic inch total by 1728". Example 1512  $\div$  1728= .875 Cubic feet

#### **Calculating Internal Volume**

- 1) To calculate the internal (net) volume 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 <u>outside measurements</u> 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

# Wiring

#### for the correct impedance



## 12"(305mm) Marine Woofer

(900 Watts RMS Sealed Enclosure)

- 12"(305mm) CUSTOM TOOLED HIGH EFFICIENCY
- Polypropylene Cone
- **BUTYL RUBBER SURROUND**
- DUAL 2"(51mm) High Temperature Black Aluminum Voice Coil
- 1800 watts peak/900 watts RMS
- FREQUENCY RESPONSE:28Hz-2KHz
- SENSITIVITY:95dB(1WATT/1METER)
- IMPEDANCE:DUAL 4 OHMS
- MOUNTING DEPTH:3"(76mm)
- MOUNTING DIAMETER:12.874"(327mm)