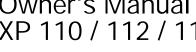
XP SERIES LOUDSPEAKER SYSTEMS

From Fender Pro Audio





P/N 052004



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Fender Musical Instruments 7975 North Hayden Road, Scottsdale, Arizona 85258 U.S.A.

Fender knows the importance of sound reinforcement. From the simple box-top mixer to today's professional touring concert systems, the need to communicate, to make the connection between the performer and the audience is foremost in Fender's mind.

Perhaps no other single piece of gear can make or break your band's sound. You see, your sound system is more than just a combination of dials, wires and speakers. It is an integral part of the audio chain and should be treated with special care and attention to detail.

At Fender, we know what building quality musical instruments and sound reinforcement equipment is all about. In fact, many of the world's best sounding electric musical instruments and sound reinforcement equipment proudly wear the Fender name.

Whether you need a simple box top powered mixer for your Saturday afternoon jam, or a professional full-size concert system, Fender has the sound reinforcement equipment to meet your needs. Likewise, your decision to purchase Fender pro audio gear is one you will appreciate with each performance for years to come.

Wishing you years of enjoyment and a heartfelt thank you,

Bill Schultz

Bill Schultz Chairman Fender Musical Instruments Corporation

XP SERIES 110 / 112 / 115 PROFESSIONAL LOUDSPEAKER SYSTEMS

INTRODUCTION

3/4" Birch Plywood Cabinet

High Current 1/4" Phone Jacks

Dual Piezoelectric Horn

Rugged Metal Grille

Metal Corners and Rubber Feet

Tough Synthetic Indoor/Outdoor Carpet Thank you for purchasing an XP Series 110 / 112 / 115 Loudspeaker System from Fender® Pro Audio. We are sure you will find it both a unique and effective sound reinforcement product, providing years of trouble-free service day in and day out.

XP Series Loudspeaker Systems are professional, fullrange, two-way, compact loudspeakers designed for the most demanding permanent or portable sound reinforcement requirements. With scientifically derived trapezoidal shapes, these speakers are ideal for use as a two-way system or as the mid / high pack in a three-way set-up incorporating a Fender 115sA / 118sA subwoofer loudspeaker system.

XP Series Loudspeaker Systems are designed to form the basis of everything from a small public address system to the nightly rigors of a "working band's" sound system. After moisture sealing, XP Series cabinets are covered in a rugged black carpet. Likewise, XP Series cabinets also feature metal corners and rubber feet for a longer life and lasting looks.

Please read through this owner's guide in order to more fully understand the operational characteristics of your XP Series Loudspeaker enclosure.

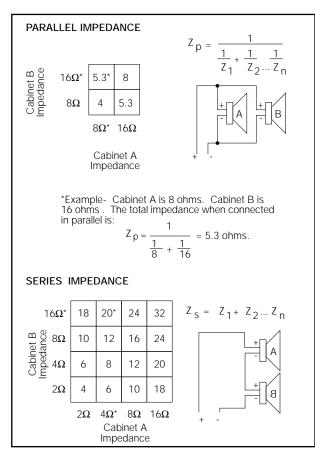
CAUTION: Almost all speakers produce strong magnetic fields which may interfere with the normal operation of nearby electronic devices, including televisions and computer video monitors. To reduce or eliminate interference, increase the distance between this product and other nearby electronic devices.

SPEAKER WIRING AND CONNECTIONS

Parallel or series are the two basic ways which multiple speakers can be connected to a single power amplifier. When speakers are connected in parallel, their combined impedance decreases. For speakers wired in series the opposite is true, their combined impedance increases. Thus, when speakers are wired in series, higher impedance speakers in the series draw more power from the amplifier than do speakers in the series with lower impedances. When speakers are wired in parallel, the opposite is true. Higher impedance speakers will draw less power from the amplifier than lower impedance speakers will draw.

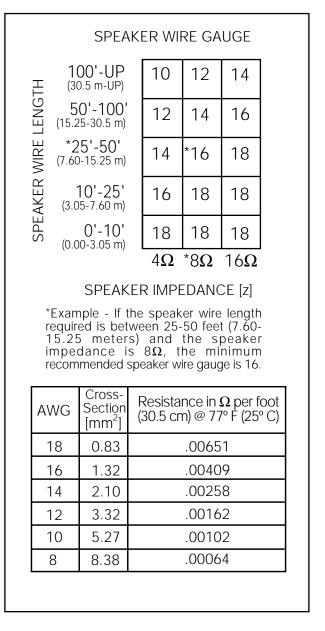
At Fender[®], we recommend connecting multiple speakers in parallel for several reasons. First, if one speaker fails, the others will continue to operate. Second, because in a series connection one speaker affects the output of the other speakers, unpredictable frequency response is a concern. Third, most speaker cabinets are already wired for parallel connections making parallel connections the most common wiring method.

Below are two charts demonstrating how to calculate both parallel and series impedance.



Keep in mind, power and audio signal cables are the most common sources of sound system failure. Well made and carefully maintained cables are essential to the reliability of the entire sound system. If long speaker cables are required, it is important to ensure the cable's gauge is sufficient to transfer all of the available amplifier power to the speakers rather than absorbing the power itself. As a rule of thumb, larger wires are better as they conduct more power to the speakers (larger wire has smaller gauge numbers).

Below are two charts listing speaker wire gauges and recommendations for best results.



XP SERIES SPEAKER CONNECTIONS

The XP Series Loudspeaker Systems' 1/4" jacks are wired in parallel allowing any one of the connectors to be used as an input and any other as an output. This allows "daisy chaining" of multiple loudspeakers, eliminating the need for several long, cumbersome runs of speaker cable (see diagram on page 6). Their connections are as follows:

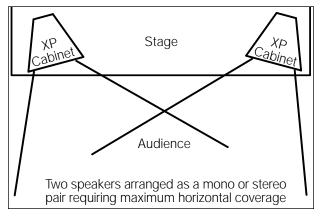
<u>Polarity</u>	Phone Jack	
Positive (+)	Tip	
Negative (-)	Sleeve	

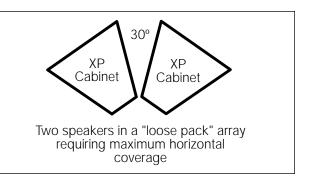
If XP enclosures are used as the mid / high pack in a larger three-way loudspeaker array, an external crossover may be used with the speaker and two channels of power amplification will be required: one for the low frequencies and another for the high frequencies (see diagram on page 7).

SETUP SUGGESTIONS

The placement of any speaker can dramatically affect its sound. Thus, there are several considerations to review when placing loudspeakers.

First, the range of the horizontal coverage should be determined. The speaker may be used as a single unit, as part of a pair, or as part of a group of widely spaced enclosures, in any case, maximum horizontal coverage will be desired. Examples of these types of setups are shown. The horn in this configuration has a horizontal coverage angle of 70° and a vertical coverage of 35°.





NOTE: When setting up your XP Series enclosures, be sure to place the cabinets in such a way as to minimize overlapping radiating patterns.

A **second** consideration is for feedback and bass performance. If the speaker is placed near a large, flat wall, the bass output will increase by approximately 6 dB. Placing the speaker near a wall can cause feedback. If this occurs, the speaker must be moved.

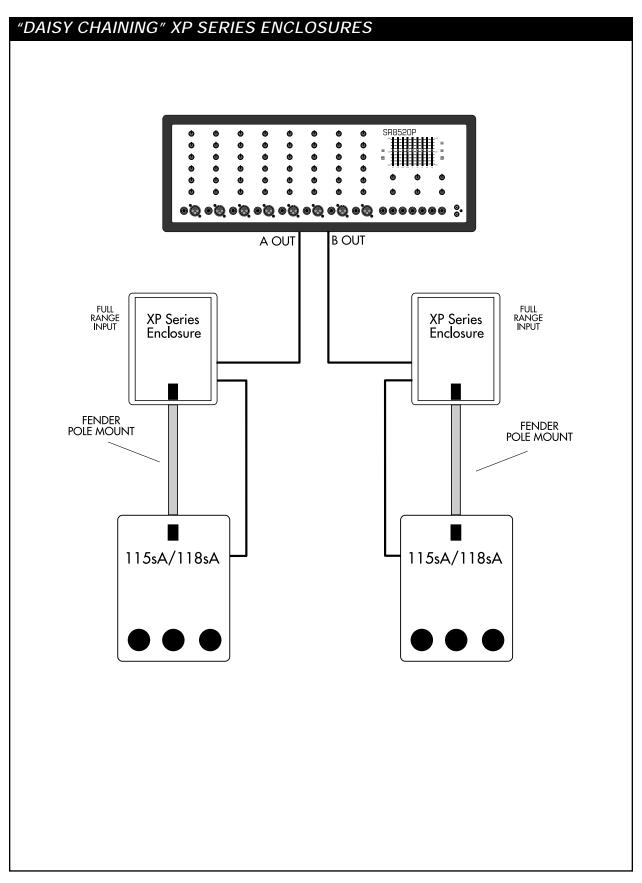
A **third** consideration is to what degree the speaker should be "heard and not seen", especially in permanent installations. Remember, where the speaker cabinets are placed will effect both their tone and radiating patterns.

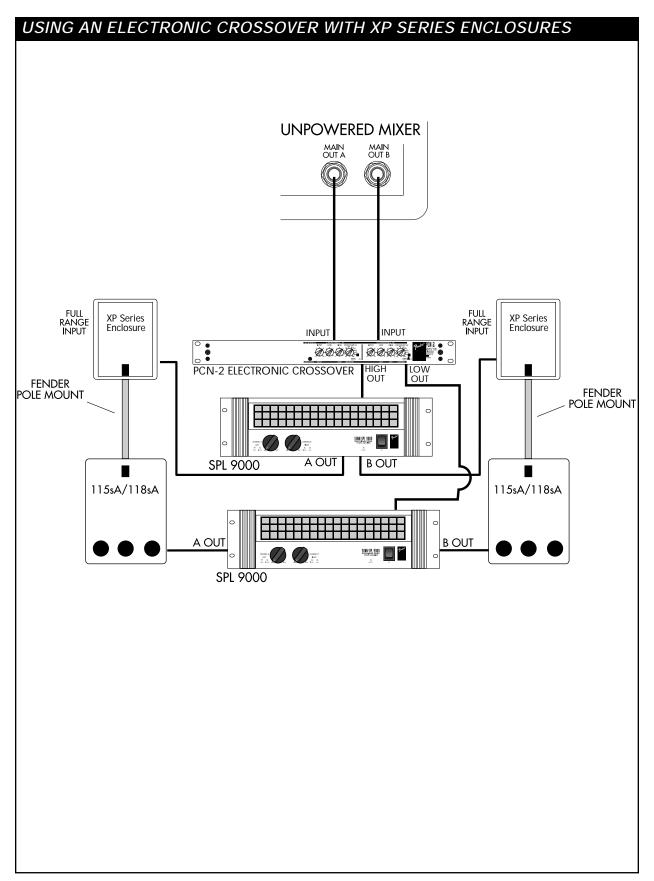
CARPET COVERING CARE



XP Series cabinets are covered in a tough, soil resistant synthetic indoor/outdoor carpet for long life and lasting good looks. To clean the carpeted cabinet, use a brush to wipe away any smudges or dirt. For stubborn stains, a sponge with a light soapy

solution may be used. Avoid spilling liquids on the input panel, grille and speakers.





SPECIFICATIONS				
MODEL		110-XP	112-XP	115-XP
PART NUMBE	R	071-1100-100	071-1200-100	071-1500-100
MAXIMUM dB OUTPUT LON		120 dB	121 dB	121 dB
CABINET		3/4" (1.9 cm) Birch Plywood	3/4" (1.9 cm) Birch Plywood	3/4" (1.9 cm) Birch Plywood
CONNECTION	S	(2) 1/4" Phone Jacks	(2) 1/4" Phone Jacks	(2) 1/4" Phone Jacks
DRIVER	Low:	10" (25.4 cm) woofer 2" (5 cm) voice coil	12" (30.5 cm) woofer 2" (5 cm) voice coil	15" (38.1 cm) woofer 2.5" (6.35 cm) voice coil
	High:	1" (2.5 cm) Exit Throat Polymer Diaphragm Dual Piezoelectric Driver	1" (2.5 cm) Exit Throat Polymer Diaphragm Dual Piezoelectric Driver	1" (2.5 cm) Exit Throat Polymer Diaphragm Dual Piezoelectric Driver
FREQUENCY RESPONSE	Axial +/- 3 dB:	65 Hz to 20kHz	60 Hz to 20kHz	60 Hz to 20kHz
AXIAL SENSITIVITY	SPL @ 1W/1m:	94 dB	95 dB	95 dB
POWER RATIN	NG	100W	100W	150W
NOMINAL IMP	PEDANCE	8Ω	8Ω	8Ω
DIMENSIONS	Height Width (front) Width (rear) Depth	20.25" (51 cm) 14.6" (37 cm) 6.4" (16 cm) 15.6" (40 cm)	21.25" (54 cm) 18" (46 cm) 6.4" (16 cm) 18.4" (47 cm)	23.8" (60 cm) 20.9" (53 cm) 8.4" (21 cm) 19.6" (50 cm)
WEIGHT		37 lbs. (16.7 kg)	50 lbs. (22.7 kg)	58 lbs. (26.3 kg)

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