

PASSPORT PORTABLE SOUND SYSTEM DC/DC CONVERTER

INTRODUCTION

With the purchase of the Fender DC/DC Converter for the Passport Portable Sound System, you have entered the world of remote sound system operation. No longer constrained to operate the Passport Portable Sound System in close proximity to AC power sources, the DC/DC Converter and a 12-volt battery is all you need for hours of quality sound and applications flexibility. Whether your needs are public address (PA) or sound reinforcement for entertainment and music, the DC/DC Converter combined with the Passport Portable Sound System allow ultimate flexibility and freedom.

Your Passport DC/DC Converter works by changing the plus 12-volt DC current found in the battery into a plus / minus 48-volt DC current required to operate the Passport Sound System.

Your Fender Passport DC/DC Converter comes complete with:

- A "gig bag" for convenient storage and transportation,
- Two (2) 10 amp fuses for installation into the Passport Power Tower (be sure to note the values and type of these fuses for future reference) and
- an Owner's / Instruction Manual.

In order to thoroughly understand the use and features of your Passport sound system, please read and adhere to all safety warnings on both the Passport DC/DC Converter and the Passport Portable Sound System.

Warnings:

Read and observe the warning labels, cautions and instructions supplied by battery manufacturer.

Large batteries are capable of very high short term current output. Exercise extreme caution when transporting and connecting / disconnecting from any battery.

Many batteries contain corrosive acid. If possible use sealed types of battery to reduce the risk of spillage and injury.

Transport your battery in a suitable, plastic enclosure designed for that purpose. Batteries generate explosive gases when being charged, operated and stored.

Always allow clear air space for adequate ventilation. Never allow a spark or open flame to come into proximity of a battery; explosion may result.

To prevent fire or shock hazard, do not expose this unit to rain or moisture.

No user serviceable parts inside, refer servicing to qualified personnel only. Service by persons other than Fender authorized service technicians may void the warranty.

Jewelry and Metal Objects/Materials

Exercise care when operating or connecting a battery. Never allow loose jewelry, rings, chains or other conductive materials to come into contact with the battery terminals.

Remove rings when using wrenches to work in proximity to any battery power source.

FYI

When using any electronic equipment after transportation in cold weather or whenever the equipment is appreciably colder than the room in which it will be operated, condensation may form on external and internal surfaces. This can result in short circuits, damage to the equipment and possibly exposing humans to risk of electrical shock! Always allow sufficient time for equipment to reach ambient temperature and for any condensation to evaporate BEFORE plugging in or otherwise connecting to power. This is true for all electrical equipment!

PASSPORT / PASSPORT 150 TOWER FUSE INSTALLATION

Your DC/DC Converter is supplied with two (2) 10 amp fuses. These fuses **must** be installed into your Passport System Power Tower, before any attempt at operating the DC/DC Converter with a Passport system.

Caution: Make sure all connections are removed from the Tower.

1) **Passport:** Carefully place the Passport tower mixer side down on a hard surface.
Passport 150: Leave the Tower standing upright on a hard surface.

2) **Passport:** Open and empty the storage compartment. With the door wide open, look upwards into the top left of the 'roof' of the storage compartment, and identify the two (2) fuse holders.
Passport 150: Located above the AC input socket, remove the two screws securing the fuse holder cover plate at the lower right rear of the panel.

3) **Passport / Passport 150:** Carefully insert each fuse into its respective holder and secure.

4) **Passport:** Close and secure the storage compartment's door.

You have completed this phase of the installation and the Passport is now ready to operate on DC/DC power. *FYI: It is NOT necessary to remove these fuses when operating the Passport via an AC power current.*

SETTING UP THE DC/DC CONVERTER

Set up your Passport System in the normal way taking care to follow all of the usual procedures for safety and optimum performance.

The cable lengths on the DC/DC converter are the maximum recommended. Place the DC/DC Converter near the battery and move the Passport as far away from the battery as the cables will allow.

Be sure to place the DC/DC Converter out of direct sunlight in an open but shaded location. Make sure the On / Off switch on both the DC/DC Converter and the Passport are in the Off position.

1) Connect the DC/DC Converter's 4 pin Molex 48-volt DC/DC plug into the connector located on rear of the Passport Tower. *Note: clip is on top.*

2) Next, place the DC/DC Converter to allow clear air flow over the heat sink fins. Also, make sure the DC/DC Converter's On / Off switch is in the Off position.

3) Take a minute to ensure you have clearly identified the respective Positive and Negative terminals of the battery. These may be color coded RED (positive) and BLACK (negative) or simply identified by + and - marks.

4) Now, connect the BLACK - negative battery alligator clip of the DC/DC Converter to the NEGATIVE (-) terminal of the battery and the RED - positive battery alligator clip to the POSITIVE (+) terminal of the battery. Make sure a secure and proper contact is made with the alligator clips.

If a clip accidentally comes off during use of the Passport, make sure to turn off the DC/DC Converter before re-connecting to the battery. Failure to do so could damage both the DC/DC Converter unit and the Passport unit. Turn on the power switch on the DC/DC Converter only after reconnecting the clips.

You are now ready to turn on the DC/DC Converter and with it the Passport system. **Important: The front panel Power Switch on the Passport Portable Sound System is now inoperative and has no effect on the On/Off status of the Passport Portable Sound System.** The Power supply switch function is now controlled by the On/Off switch on the DC/DC Converter.

BATTERY LIFE AND SUGGESTIONS

In the interests of extending useable/maximum battery life, the DC/DC Converter has been designed to provide the Passport with sufficient voltage to reach its specified peak power output for musical and program transient. However, for power conservation the DC/DC Converter is designed to reduce continuous output capability. This slight reduction in power will not normally be perceived unless very high continuous power is being used.

Battery life may differ according to a number of variables including:

- Battery condition
- Battery charge state
- Temperature
- Program type and continuity
- Passport Control settings

If possible, use a new or as new battery and always fully charge the battery before use. We recommend the use of a 48 amp/hour or greater capacity battery. Your own specific circumstances and applications will dictate larger or smaller batteries. *Note: If an in-vehicle battery is used to operate the system, make sure there is enough charge left to start the vehicle at the end of your event. The ability of a battery to maintain a sufficient charge to turn over a vehicle may be significantly impaired by use of the system depending on the condition of the battery and the nature and circumstances of the system's use. It is advisable to use a free standing battery or back up battery to avoid this occurrence.*

During tests using a musical program on a new fully charged, stand alone 105 amp/hour battery, continuous operation in excess of 48 hours has been observed. This, however, is an unlikely typical use. For an outdoor sporting event with periodic announcements, a fully charged, stand alone 48 amp/ hour battery may provide 12 to 18 hours of use. **Remember, these are estimates only and your specific circumstances will vary battery life significantly.**

For your first event, you may want to take a back up battery using your primary battery until the event ends or the battery charge is depleted. Be sure to note the battery life used for future reference.

CARE AND CLEANING

To clean your Passport DC/DC Converter, use only a damp cloth to wipe the surface of a disconnected DC/DC Converter. Never allow water to enter the unit. Occasionally wipe unconnected cables carefully with a damp cloth. Make sure no foreign matter gets into the connectors. Avoid exposure to running water and condensation.

SPECIFICATIONS

Input voltage:	12v nominal
Input Fuse:	40A, Auto Blade
Output Fuse:	10A, Auto Blade
Weight:	6 lb. (2.74 kg)

Product specifications are subject to change without notice.