

XPRESSION FX

Two-way Expression Pedal Splitter

User guide



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Safety and care

- Remove power from all devices to be connected before connecting or disconnecting
- Dismantling the device may damage the device. There are no user serviceable parts inside the device.
- Only use the provided AC to DC power adapter or other certified adapter. Only use the correct polarity of the provided reversible DC power adapter. Negative centre (tip) is the correct polarity. The power adapter is supplied in the correct configuration. Do not reverse the connection.
- Due to the nature of modulation, some modulated parameters, particularly at the ends of modulation, can cause a loud and/or irritating audio signal. Permanent high volume audio signals can damage hearing and equipment.
- Should the device malfunction, a reboot may resolve the problem. Otherwise the manufacturer should be contacted. There are no user serviceable parts inside the device.
- Avoid contact with, and environments, known to cause adverse effects with electronics and small moving parts, such as liquids, dust, sand, high humidity, high temperature and vibrations.
- Avoid excessive force when connecting cables
- Disconnect the device during lightning storms and /or times of power outages
- **This device is designed to accept 3.3 – 5 volts on its output sockets. This device outputs 5 volts at all times on its input socket. Damage can be caused to this modulating device or to the connected device if greater than 5 volts is applied to the output expression socket. The input is designed for a TRS expression pedal. Damage can be caused if a different device is connected to the input. Consideration must be taken when connecting and using the device.**

If in doubt contact Oz inventions at contact@ozinventions.com

Warranty

The device is warranted for use in Australia.

If the product is defective as a result of faulty workmanship or materials, Oz Inventions will at their discretion repair or replace the product for a period of 3 months from purchase.

Proof of purchase is required and Oz Inventions at their discretion are required to inspect the product and reserve the right to update or improve the product including hardware and software during the period of inspection and /or repair.

The warranty is void if the product is opened or dismantled in any way

Warranty claims should be directed to contact@ozinventions.com

Power

The device requires a 9 – 12 volt DC power supply with a current capability of 50mA. The DC polarity is negative in the centre (tip).

Introduction

Xpression fX two-way splitter – TRS, from Oz Inventions, splits a single TRS expression pedal into two TRS 10kohm outputs. It is designed for use with effects units, keyboards and MIDI controllers that have an expression pedal socket, sometimes called a control socket, or foot controller socket.

Functions

- The device enables an expression pedal to drive two separate effects units, keyboards or MIDI controllers.

The device is **polarity** compatible with all TRS effect units, keyboards and MIDI controllers with expression sockets designed for a 10kohm expression pedal.

| Manufacturer | Polarity | Manufacturer | Polarity |
|------------------------|------------|---------------------|----------|
| Arturia® | CV | Magnataone | TRS |
| Avid (Eleven rack)® | TRS | Mooer® | TRS |
| Behringer® | RTS | Mooger Fooger® | CV |
| Boss® | TRS | Mooger Fooger® | TRS |
| Digitech® | RTS | Pigtronix® | TRS |
| Digitech® | TS | Ramble FX® (Kismet) | TRS |
| Earthquaker® | TRS | Ramble FX® (Kismet) | CV |
| EHX® | TRS | Red Panda® | TRS |
| Ensoniq SQ1/SQ2® | CV | Strymon® | TRS |
| Fractal Audio Systems® | TRS | TC Electronic® | TRS |
| Eventide® | TS | TC Helicon® | TRS |
| Kemper® | TRS or RTS | Yamaha® | RTS |
| Line 6® | TS | Walrus Audio® | TRS |
| M-Audio® | TRS | Zoom® | RTS |

Table 1 – Common Polarities

The electrical output resistance of this device is 10Kohms. This is compatible with most but not all effect units, keyboards and MIDI controllers. Incompatibility may result in a limited range of modulation.

Controls and sockets overview



Figure 1 Controls, sockets & power

- 9 – 12 volt power – Any certified 9 – 12 volt power supply with a minimum supply current of 50mA and a polarity with negative tip/centre is suitable
- Pedal Input – A TRS expression pedal with an electrical resistance of 10 – 250kohms is suitable.
- Output 1 – 10k ohm output configurable for TRS
- Output 2 – 10k ohm output configurable for TRS
- Power ON/OFF indicator – Illuminates when power is applied

Connecting



Figure 2 Connecting two effect units



Figure 3 Typical TRS cable

Trouble shooting

| Problem | Resolution |
|--|---|
| Power LED does not illuminate | Power supply must have polarity with negative to tip |
| Full modulation cannot be achieved | Effects units, keyboards and MIDI controllers must be able to accept 10Kohm expression pedals. Devices designed for higher resistance expression pedals may not be fully modulated. |
| Full modulation cannot be achieved or operation is erratic | The input expression pedal must be TRS polarity. |

Specifications

- 9 – 12 volt; Negative centre (tip)
- Current draw 20mA
- Electrical output resistance 10Kohm
- Jack type- ¼" (6.35mm) stereo (input & output)
- Output Polarity – TRS
- Input Polarity – TRS
- 127 step sweep resolution
- Linear output sweep
- Dimensions - L 112.5mm x W 60.5mm x H 31mm
- Weight – 200 grams