



FT 150 EVO
Owner's Manual

English

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1 Owner's Manual

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1 Promotional sticker

INTRODUCTION

Dear customer

Congratulations on acquiring your SounDigital! You've just purchased a product of high quality and technology. The SounDigital products are developed to assure maximum efficiency and reliability to your sound system.

IMPORTANT INFO

Read this manual and follow its instructions and information carefully. It contains extremely important information to have your amplifier working properly. If you feel the need to contact our Tech Support, you can reach our technicians through the e-mail info@soundigitalusa.com

We recommend the use of SounDigital original accessories for a better performance. The crossovers, amplifiers and voltmeters offered by SounDigital follow the same quality standards as our power supplies, assuring an excellent quality and high power sound system to our customers.

To know our complete line of amplifiers and accessories, visit www.soundigitalusa.com



Warning!

This "Warning" sign alerts the user of important info. Not following this instructions may cause injuries to the user or damage to the equipment.

- ▶ To prevent injuries to the user or damage to the power supply, read all the safety instructions written on this manual;
- ▶ If you have questions about the installation of this equipment, get in touch with our tech support or with a professional specialized in car audio installation;
- ▶ Before proceeding with the installation of any electric equipment on your vehicle, unplug the negative (-) terminal of the battery .
- ▶ Use your sound system safely, exposure to continuous sound pressure over 85 dB may cause irreversible hearing loss.

Power Supply SounDigital EVO

The SounDigital power supply/charger is designed on a SMPS Technology platform (Switched Mode Power Supply), performing the conversion of the 110~220VAC energy to DC tensions of 12V to 14.4V. Its PWM technology (Pulse-width Modulation) allows it to work with excellent efficiency, low heat and stable tension which is not possible with the traditional linear transformer power supplies.

Power Input:

The power supply comes with a 3 x 1.5mm² power cable which should be connected to its standard IEC power connector.

Output Voltage Selection:

The power supply has an adjustable output voltage, from 12VDC - 14.4VDC, with an external variable potentiometer located on the side of the product. This adjust is continuously variable which means you can set any number within this range. It's important to point out that when you use it to recharge the batteries, the voltage should be equal or higher than 13.5VDC.

Output Connector:

The power supply has an extremely robust output connector, made with solid metals and resistant to high current.

Voltmeter:

The output voltmeter of the SounDigital power supply shows the voltage of the power supply output. When there's no charge connected to the power supply, it helps you to adjust the output voltage through its potentiometer.

In case it is already connected to any charge (such as batteries or amplifiers), it shows the voltage of this given system.

The voltmeter can start working for two reasons:

- ▶ When the power supply is connection to the power grid its power cable. In that case, the voltmeter will remain on for about one minute after the power supply is disconnected.
- ▶ When the REM connection is powered with a +12VDC signal. This connection allows you to use the power supply voltmeter even when the power supply is not connected to the electric power grid. You only need to connect the REM terminal of the power supply to the remote of the sound system.

Connection to the Electrical Network:

To connect the power supply/charger to the power grid, use the cable that comes with the product. Make sure the wall socket where it's being connected is 20A and that it can take the current needed.

Avoid using multi plug adaptors on the power supply cables as it may overheat the connections or cause loss of efficiency. In case you need to use power extensions from the power supply to the power grid, use the shortest cable possible with a diameter compatible to the system. We recommend the use of power extensions with 4mm² cables for 220V and 6mm² for 110V and a length not longer than 80ft to assure the power supply works properly.

The SounDigital power supply has an automatic input voltage selection system, then connected to the wall socket, it automatically selects the voltage. As a protection to its circuitry, it has an internal fuse. If this fuse is ever to burn, the replacement should be made by an authorized SounDigital tech assistance. For more information on our authorized tech assistances, visit www.soundigitalusa.com.



Warning!

This product has some internal parts with potentially dangerous voltage. Therefore, the power supply should never be open by the user in order to avoid electric shock, even when disconnected from the power grid.

Choose a ventilated place to install your power supply and avoid obstructing the side vents.



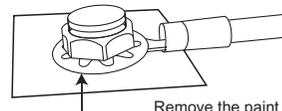
- ▶ Install your power supply in a proper and solid way. Avoid installing it in metallic parts of the vehicle.



Warning!

Be careful when making holes in the vehicle. Verify if you're not making holes in the fuel tank, brake lines or electrical cables of the vehicle.

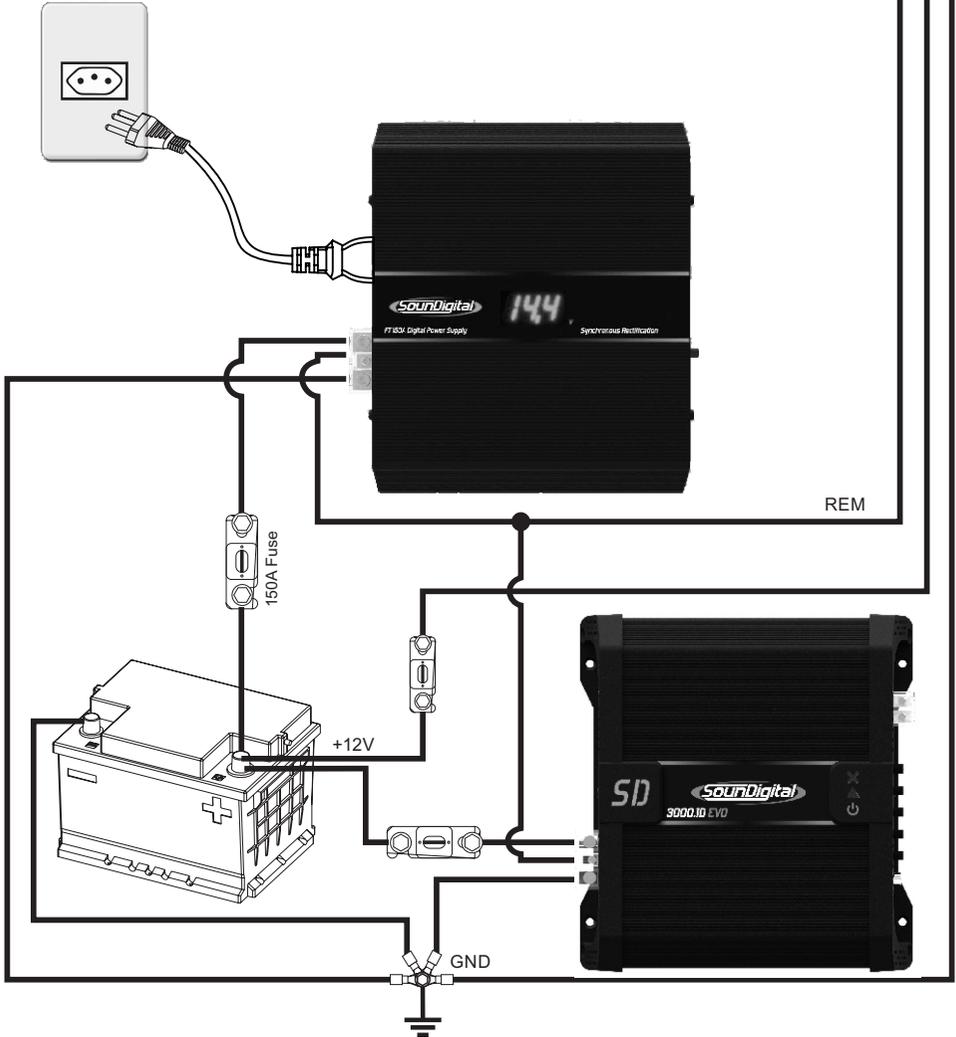
- ▶ Avoid installing the power supply on acoustic boxes or places with intense vibration.
- ▶ The proper working of SounDigital power supply relies on the quality of the electrical network where its connected. When connected to 110V networks, the tension should be higher than 100V. When connected to 220V networks, the tension should be higher than 190V.
- ▶ Recharge the batteries of your sound system with SounDigital power supply some hours before making use of it. It assures the batteries will be well-charged and your system will have better efficiency. Repeat the procedure after using your sound system. Recharge the batteries for a few hours. By doing so, you'll not only get the max power out of your batteries, but will also extend their lifespan.
- ▶ To avoid unwanted noise in the system, join all the ground points of the audio equipments into a single point



- ▶ Plan the cables passage properly. Keep the RCA cables used for the amplifiers together, but separate from the tension input and output cables, as well as the power supply cables or the output cables from the audio, electric and electronic equipment, such as fuel injection and electric engines.
- ▶ When passing cables through metal walls, use rubber O-rings to avoid cable cutting and short circuits.

INSTALLATION

Unplug the negative (-) terminal of the battery before proceeding with any electrical installation in the vehicle.



PANELS DESCRIPTION



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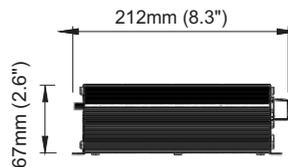
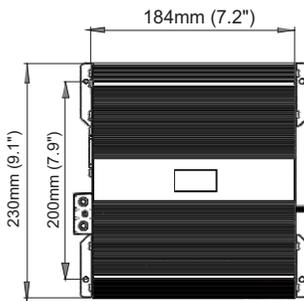
- 1 AC Power Input Connector;
- 2 Positive 12VDC-14.4VDC Output Connector;
- 3 Remote Connector;
- 4 Negative 12VDC-14.4VDC Output Connector;
- 5 Variable Voltage Adjustment Control;
- 6 Voltage Display.

TECHNICAL SPECS

FT 150 EVO

Output voltage (DC)	12V to 14.4V variable
Output current (DC)	150A
Input voltage (AC)	110V / 220V automatic
Total Efficiency	85%
Electronic protection	Output short circuit and overcurrent
Fuse/circuit breaker size	150A
Size of recommended cable	2 AWG/35mm ²

Dimensions



Weight: 2,8kg (6.1lbs)

LIMITED WARRANTY

SounDigital warrants the original purchaser that this product shall be free of defects in materials and workmanship for a period of twelve (12) months from the original date of purchase. Some countries have extended warranty in case the product is installed by an authorized dealer. This warranty is not transferrable and applies only to the original customer from an authorized SounDigital dealer.

Warranty is void when:

- Defect or problem caused by misuse of the product;
- Incorrect installation or non-conformity with the Manual;
- Maintenance made by unauthorized personnel;
- Alteration or removal of the seal/serial number;
- Exposure to adverse conditions (weather, humidity, etc);
- Damage caused by fall, impact or natural depreciation, caused by transport and/or handling, risks, or smashings;
- Products was purchased more than 12 months ago.

Warranty covers:

- Component or material with manufacturing defects;
- Workmanship/service needed to repair the equipment;
- If you need service on your SounDigital amplifier, send it (freight-prepaid) to SounDigital's Amplifier Repair Center through an authorized SounDigital dealer (must be accompanied by proof of purchase);
- Any extra information you can get by contacting us at the e-mail address: info@sounddigitalusa.com;
- In case of manufacturing defect or bad quality of raw material, the max compensation will be the replacement of the product, not allowing any kind of compensation payment;
- New modifications/iterations on a product don't obligate the manufacturer to modify products formerly produced.

