Sunfire SDS12 Subwoofer Sound System Operational Guide

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Specifications

- **AMPLIFIER OUTPUT**: 300W RMS, 600W Peak
- **HIGH CUT FILTER**: 50 Hz – 150 Hz adjustable. The crossover can be bypassed by rotating the crossover frequency control fully clockwise.
- **FREQUENCY RESPONSE**: 28 Hz – 150 Hz
- **POWER LINE VOLTAGE**: 115 VAC 50/60 Hz version, 230 VAC 50/60 Hz version
- **DIMENSIONS**: 65 x 14.57 x 15.52 in / 423 x 370 x 394
- **WEIGHT**: 35 lb. (17.2 kg)
- **OUTPUT LEVELS**: 106 Db
- **DRIVERS**: 12 in (304.8 mm)

Overview

The SDS-12, the most potent member of the family, offers all the dynamics present in your most difficult material. The SDS-12, which is at home in larger spaces, uses just 0.5 watts of standby power while delivering 600W of peak power from Sunfire’s Class-D digital amplification. With Sunfire’s proprietary FFDTM technology, which is standard, you can replicate the most minute melodic details from your favorite Blu-ray and DVD discs as well as high fidelity audio sources. Whether its heart-pounding visual effects or delicate melodic notes, the DS12 succeeds where others fail by delivering a genuine experience.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prongs are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart stand tripod bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during Lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This apparatus has been equipped with a rocker-style AC mains power switch. This switch is located on the rear panel and should remain readily accessible to the user.
16. The mains plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.

**WARNING**

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

**Introduction**

Thank you for purchasing a Sunfire Dynamic Series Subwoofer. We hope you enjoy it and the music it makes as much as we have enjoyed creating it for you.

The big features of the subwoofer are its high-efficiency Class D digital amplifier, and its computer-optimized woofer and passive radiator design. And, the Sunfire Dynamic Series’ extended frequency response means that your subwoofer is the perfect match to virtually any loudspeaker. The result is extraordinarily high operating efficiency – that is, more acoustic output for each watt of input.

**Unpacking**

Your Sunfire subwoofer should reach you in perfect condition. If you do notice any shipping damage, please contact your Sunfire Dealer immediately.
Gently lift out the unit and remove all the packing material. It is important to save all the packing materials and the box in case your subwoofer ever needs to be moved or shipped for repair.

Make sure that you keep your sales receipt. It is the only way to establish the duration of your Limited Warranty and it may come in useful for insurance purposes.

Please take a moment to read the serial number located on the control panel and record it here:

**Features**

- Low distortion
- Premium quality driver and passive radiator
- Extremely compact size
- Automatic signal-sensing turn-on and standby mode
- Line-level inputs
- Line-level high-pass outputs
- Phase control
- Crossover frequency control
- Volume control
- Soft clipping circuit allows graceful overload and prevents speaker damage due to clipping

**Care**

To maintain the speaker cabinet's finish, first unplug the power cord and then use a soft cloth to clean the surfaces.

If your Sunfire subwoofer needs servicing, please read the troubleshooting section in the user manual. The user manual can be downloaded from www.sunfire.com

**Service**

If your Sunfire product ever requires service, please write to us or call: Sunfire, 1300 E New Circle Road, Suite 150 Lexington, KY 40505 Phone 859-514-8290 Fax: 859-269-7972

**Warranty**

Sunfire, a division of Elan Home Systems, LLC, is proud of its products which have been built with care using advanced technology and premium component parts. Your unit has been crafted to perform properly for many years. The warranty details for your product are shown on the sunfire website.

**Location**
Your SDS Subwoofer is designed to be placed in a corner for optimum performance.

Experiment with at least two corners and decide which sounds the best.

Although low frequencies are non-directional, room reflections, standing waves, resonance and absorption strongly affect the performance. Moving the subwoofer from one corner to another can have a major effect on the bass response.

Keep it at least two or three feet away from any CRT screen, computer, VCR or magnetic tapes and discs. This will reduce the chance of the magnetic fields upsetting the CRT screen or erasing your magnetic media.

Also position the control panel so that it is not touching anything and can receive good ventilation.

Using Two Subwoofers

With two subwoofers, the sound output will double. Place each subwoofer in a corner, and experiment with the location and phase control to achieve the best bass response.

FREQUENTLY ASKED QUESTIONS

What are the measurements? Where are the front and bottom points where the woofer(s) radiate?

The SDS12 is 16.65" x 14.57" x 15.52" in size. The sound emanates from the front of the subwoofer because it is a front firing subwoofer.

Does this subwoofer have power?

The sub is self-sustaining. This subwoofer sounds incredible.

Does this subwoofer feature dual drivers and Wi-Fi?

The subwoofer lacks internal wireless connectivity despite having two drivers. This subwoofer sounds incredible.

Is this a sealed or ported box?

Sealed. On the bottom, it has a passive radiator.

What size subwoofer is best for bass?

An 8 “Bass from the subwoofer will be crisp and clear. Generally speaking, an 8 subwoofer will provide you superb, affordable, clear bass. Some 8-inch subwoofers sound fairly good, and some people could even compare
them to budget 10” or 12” models.

What size subs sound the best?

Because they are inexpensive and provide passable sound quality, 10-inch and 12-inch models are the ideal subwoofers for the majority of people. 15 "If you prefer to listen to music louder, subwoofers are the finest alternative because they will provide you the best overall performance.

Does Carver still make audio equipment?

The cutting-edge, effective products that made Bob Carver famous will still be available.

What engine does a Sunfire have?

All Sunfire models created after 2002 are powered by a 2.2 L Ecotec engine with 140 HP. Despite lacking the creature amenities of more modern cars, the Sunfire features the necessities, such as air conditioning and remote trunk release in some later trims.

How do I make my subwoofer sound deeper?

For the optimum sound, your subwoofer should be placed within 8–12 inches of a wall, looking outward into the rest of the room. For even more output, situate your subwoofer in the room’s corner, which can significantly enhance the sound quality as a whole.

Should Subs be louder than bass?

Subbass should peak at -12 dB if you want to have enough headroom for the rest of the song. If mixing with headroom isn’t working for you, try keeping the subbass 2 to 5 dB below the kick drum.

What level should my bass be?

Try to keep your monitor volume between 73 and 76 dB for the optimal low-end setting. We respond differently to frequencies at different loudness levels. Bass is more audible when it’s louder and less audible when it’s quieter.

What range should sub bass be?

This range produces powerful deep bass, which is often felt rather than heard. Many instruments are unable to reach this frequency range, with the exception of a few bass-heavy instruments like the bass guitar, which has the lowest attainable pitch of 41 Hz.

Do subwoofers only produce bass?

An audio loudspeaker called a subwoofer (or sub) is made to reproduce low-pitched audio frequencies called bass and sub-bass that are lower in frequency than those that can be (optimally) produced by a woofer.

What does a good subwoofer sound like?

The lower frequency limit of human hearing is 20Hz or lower, which is what a decent subwoofer will achieve. This creates a far more immersive experience because you never miss a note and can even feel the lowest notes from instruments like a pipe organ, kick drum, bass guitar, or the occasional cannon fire from the 1812 Overture.