

# [SOLARIS®] outdoor series]



SPEAKERS FOR YOUR LIFE™

## OWNER'S MANUAL & INSTALL GUIDE

SPF-25 • SPF-35



Thank you for choosing Phase Technology® speakers. We know there are a wide variety of choices available today, and we sincerely appreciate your purchase of our product. Phase Technology speakers are built to exacting standards and will provide many years of listening enjoyment.

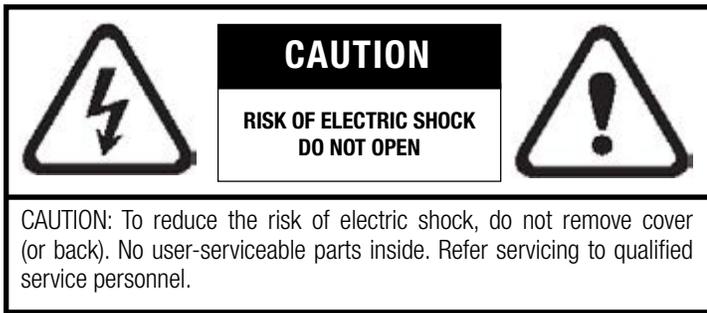
Our speakers are the result of over five decades of designing and manufacturing. We hold many key patents in loudspeaker technology including the soft-dome tweeter. Our mission, our passion is to constantly advance the art and science of accurate audio reproduction. Our dedication insures your new speakers will accurately reproduce all the impact, detail and delicacy of today's digital technology.

Regardless of application, serious audiophile listening or home theater, we recommend that you take the time to read this manual thoroughly before connecting speakers to your amplifier or receiver. In the highly unlikely event that you should experience a problem with set-up or operation, please contact one of our authorized dealers for assistance, or contact us directly.

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## [SAFETY INSTRUCTIONS]



### Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**1. Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.

**2. Retain Instructions** - The safety and operating instructions should be retained for future reference.

**3. Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.

**4. Follow Instructions** - All operating and other instructions should be followed.

**5. Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

**6. Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

### PORTABLE CART WARNING



**7. Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

**8. Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet

that may impede the flow of air through the ventilation openings.

**9. Heat** - The appliance should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.

**10. Power Source** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**11. Power Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed up or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**12. Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.

**13. Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**14. Object and Liquid Entry** - Care should be taken so that neither objects fall nor liquids spill into the inside of the appliance.

**15. Damage Requiring Service** - The application should be serviced by qualified service personnel when:

- the power supply cord or the plug has been damaged,
- objects have fallen onto or liquid has been spilled into the appliance,
- the appliance has been exposed to rain,
- the appliance does not appear to operate normally or exhibits a marked change in performance, or
- the appliance has been dropped or the cabinet damaged.

**16. Servicing** - The user should not attempt to service the appliance beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.

**17. Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

### APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR USAGE

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, INSERT FULLY.

**ATTENTION:** POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRESE ET POUSSER JUSQU'AU FOND.

## **[GETTING STARTED AND PRECAUTIONARY NOTES]**

For proper connection and therefore full enjoyment of your new Phase Technology speakers, we encourage you to read this owners' manual thoroughly, even if you are very familiar with installing speakers.

The Solaris speaker is designed for indoor and outdoor playback of music and home theater sources. Each speaker includes a convenient C-clamp and pre-threaded inserts for use with most standard swivel mounts. With UV resistant, paintable, composite enclosures and aluminum grilles, Solaris will look as good as it sounds through years of outdoor exposure.

Speaker placement is very subjective. When deciding upon a location, consider the following:

Make certain your speaker wires can be run to or are accessible from these locations. Make certain the wall or ceiling material is sturdy enough to support the weight and vibration of the speakers. Make certain the area behind the speaker is free of obstacles such as wallstuds, electrical wiring, pipes, etc. Each speaker should be positioned properly, relative to the listening area for good coverage.

## **[CONNECTIONS]**

Before making any connection, make sure your amplifier or receiver's power is turned off. Each speaker has a red (+) terminal and a black (-) ground terminal, which will match the speaker output terminals on your amplifier or receiver. Correctly connecting red to red and black to black from your amplifier to your speaker will insure correct phase connection. We recommend 16 gauge or heavier wire for the best performance from your speakers. Choose speaker wire that defines each conductor with color coding or texture on at least one of the two wire leads to assure proper phase connection.

## **[WALL MOUNTING]**

The C-clamp assembly is pre-drilled for fastening to a shelf, wall or ceiling. Before mounting the Solaris speaker to a wall or ceiling, it is important to consider the surface material the speaker will be mounted on. If you intend to mount the speaker to wood, traditional 1" long wood screws will secure the speaker properly. Mounting to stucco, plaster, concrete or drywall will require additional measures to properly secure the speaker to one of these surfaces. Consult your Phase Technology dealer for assistance.

You will find it much easier to mount the speaker if you first remove the speaker from the C-clamp. With the speaker removed from the C-Clamp, use the C-clamp as a template to locate the desired speaker placement. Hold the C-clamp at the location the speaker is to be mounted, then mark the mounting holes with a pencil. Secure the clamp to the mounting surface with the appropriate screws.

*NOTE: For a ceiling or wall mounting, it is recommended to center the base on a stud or wood frame member within your structure whenever possible. Before you place the speaker on the clamp, connect the speaker wire to the terminals on the back of the speaker. Once the clamp is properly secured and the wires attached, the speaker may be attached to the clamp using the provided adjustment knobs. Hold the speaker at the desired angle and tighten the knobs. Exercise care to avoid over-tightening the screws. Always loosen the retaining knobs before attempting to change the speaker angle.*

## **[SUBWOOFER CONNECTIONS]**

You may choose to use a subwoofer with your Solaris speaker to enhance the bass response of your music system. There are two ways to connect the Solaris speaker with a powered subwoofer. The first uses the sub-out connection. This type of output utilizes RCA connectors.

*NOTE: Most processors and receivers have a single (mono) Sub-out. Connect the Subwoofer output from your receiver or processor to either the left input or the right input on your subwoofer amplifier. Then follow the section titled Connections to hook up your Solaris speakers.*

The second option, High Level (speaker level), connects the subwoofer utilizing the speaker output terminals of the amplifier or receiver. For this hook-up method you will need two sets of speaker wires coming out of the left and right outputs on your amplifier or receiver. One set goes to the subwoofer and the other to the right and left input on your Solaris speakers.

