



owner's manual

POWER PACK

powered subwoofer

www.sonodyne.com

Introduction · Unpacking

INTRODUCTION

Congratulations on the purchase of this innovative product from Sonodyne. The values that this product adds to your music shall be unveiled as you read along. But first, here's the motivation behind the Power Pack :

The Power Pack is a bass reinforcement and amplification device. This means that you can use it as a standard subwoofer, or in conjunction with satellite speakers (LS 301, Genie 1) as a bass reinforcer and amplifier. It has three in-built amplifiers; one to truthfully reproduce the very low frequency signal in your music/ home theatre; and the other two for amplifying the satellites. This Power Pack can give you full range hi-fi from any source ... all you have to do is plug it in!

UNPACKING

The Power Pack comprises:

- i. 1 x Power Pack Sub
- ii. 1 x RCA - RCA stereo cable (Length: 5m)
- iii. 4 x hardened steel spike
- iv. 1 x tightening lever

If any of the above is damaged or missing please contact us or your dealer immediately.

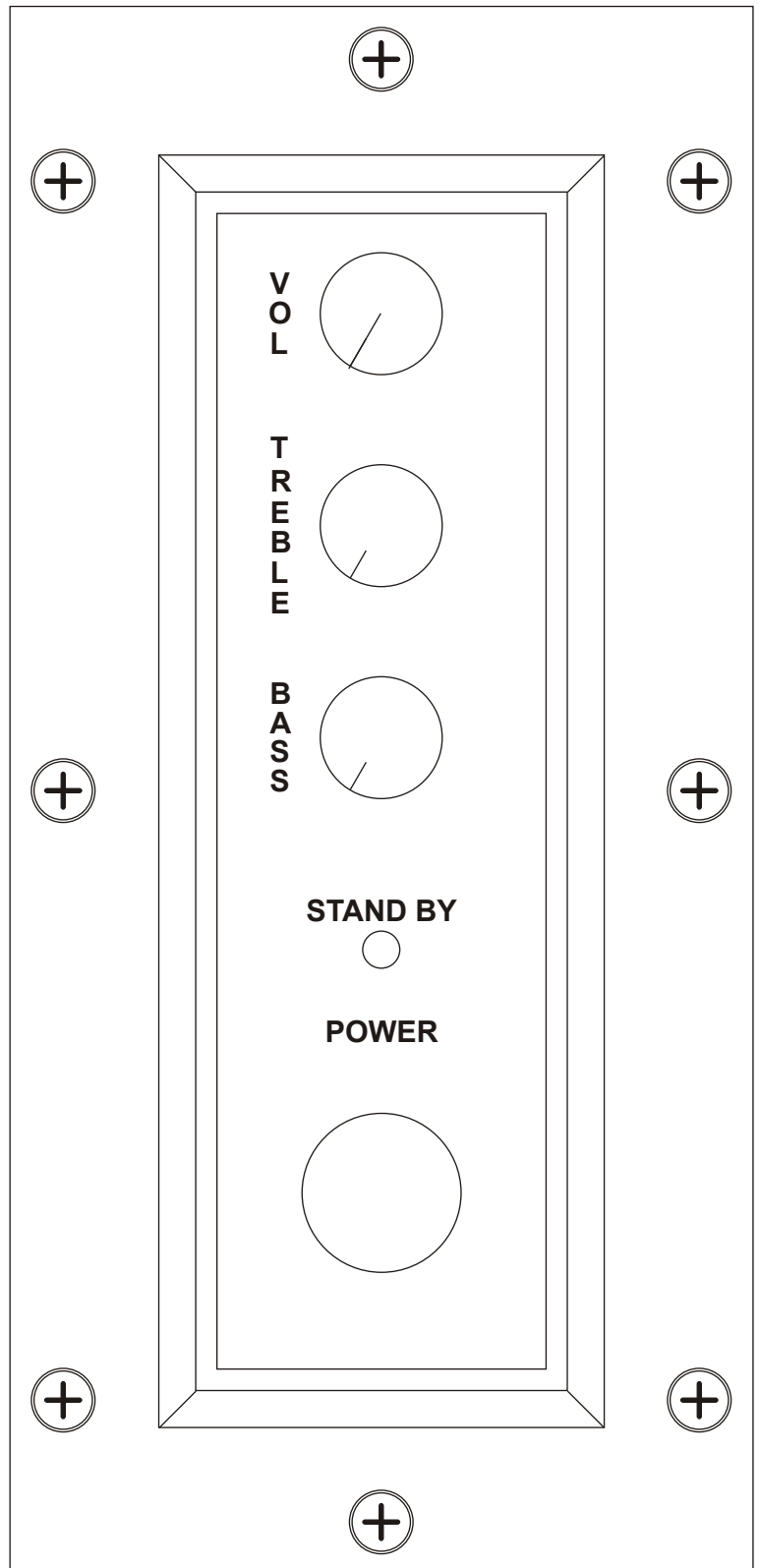
Please retain all packing material. You will require it when you want to safely transport the Power Pack.

Controls

CONTROLS

1. Volume Control: This controls the overall volume of both the satellite speakers and the subwoofer
2. Bass Control: This is used to increase or decrease the level of low frequency notes in music relative to the mids and highs. When the control is at the centre there is no change in level. The maximum increase in level (extreme clockwise) is +6dB (twice the value) and the maximum decrease (extreme anti-clockwise) is -6dB (half the value)
3. Treble Control: This is used to increase or decrease the level of high frequency notes in music relative to the lows and mids. When the control is at the centre there is no change in level. The maximum increase in level (extreme clockwise) is +6dB (twice the value) and the maximum decrease (extreme anti-clockwise) is -6dB (half the value)
4. Power: This triggers the Power Pack to turn on / off
5. Standby LED: This LED glows red when a remote control device (SC202R) is connected to the Power Pack and is in 'standby' mode
6. 'On' LED: This LED, located on the front, glows green when the system is 'ON'

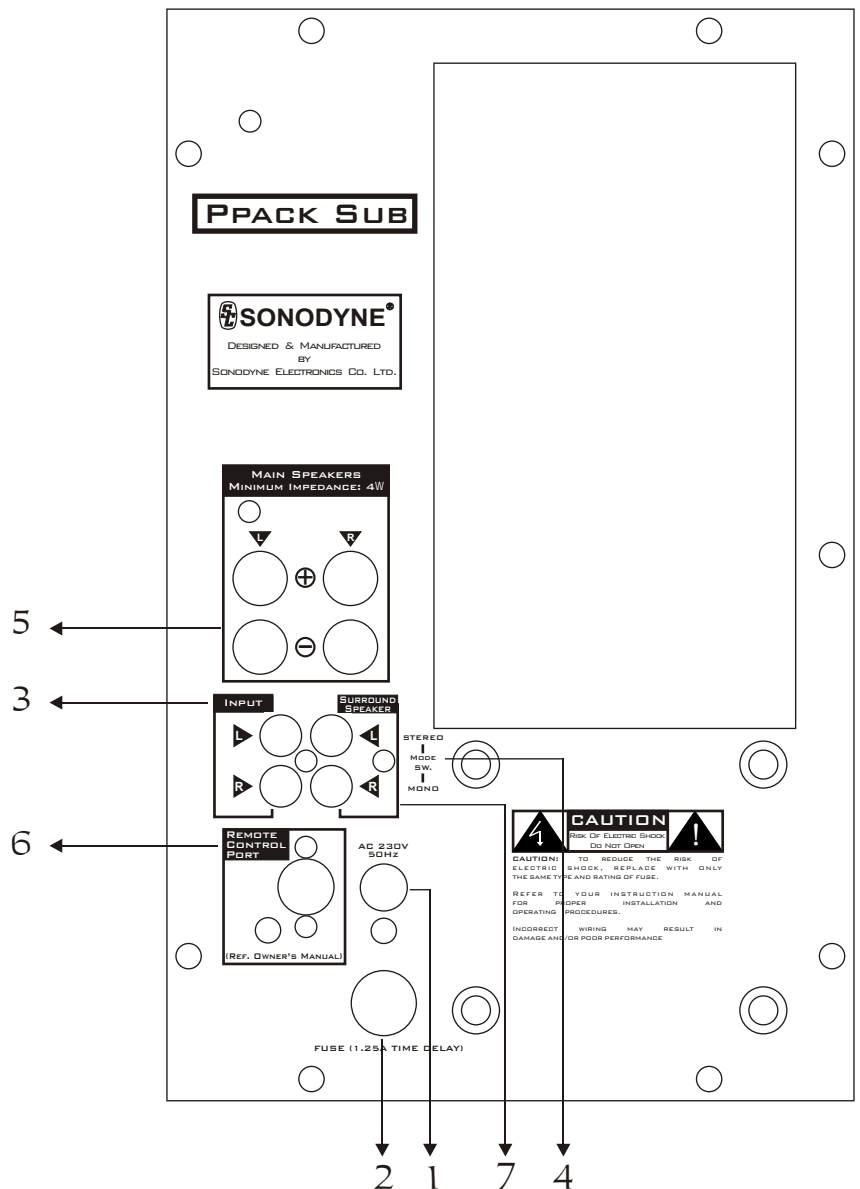
FIG. 1



Amplifier Controls

1. Power Cord: The power cord comes attached to the unit. This has a 5 Amp 2 pin plug at the other end
2. Fuse: This is a safety device. It consists of a 20mm glass cartridge fuse mounted inside a holder. To replace the fuse unscrew by quarter of a turn and pull. Replace with only the same type and rating of fuse.
3. Input: Insert RCA connectors into these inputs while connecting any source(CD/ tape/ TV) to the Power Pack
4. Mode Switch: If you have a mono source, such as the output of a TV receiver, keep this switch in 'MONO' position. For a stereo source this must be left in 'STEREO' position. This switch also allows you to enjoy 'pseudo' surround in mono position.
5. Speaker Terminals: Connect your satellite speakers to these terminals. There are two pairs of binding posts,one for each channel. The RED binding post is meant to be connected to the '+' terminal of your speaker and the BLACK one to the '-' terminal of your speaker. Ensure that the impedance per channel is not less than 4 Ohms
6. The Power Pack may be remote controlled. Use the special cord accompanying the SONODYNE remote control device only. This will ensure that all onboard controls on the Power Pack are overridden by those on the remote control device. At the time of publication of the manual, the only remote control device was the SC202R.

FIG. 2



7. Surround Speaker: You may attach a pair of speakers to these RCA output sockets to get a diffused surround sound effect. Do note, however, the minimum impedance of the speakers should be 8 Ohms.

Placement · Fig 3: Subwoofer Placement

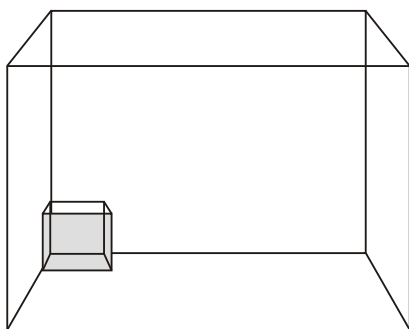
PLACEMENT

Low frequencies below 150 Hz are omnidirectional; that is, they seem to come from all directions. Hence it would not be possible to locate the subwoofer no matter where it is placed in your room. This, however, does not necessarily mean that the placement of the subwoofer is not critical. Each room, depending on its shape and dimensions, has a number of resonant frequencies that react with each other. Thus, the level of perceived bass may vary across a room depending on where source of sound is placed. Suggestions on placement are given in the Figures below. It is important to note that every reflecting surface increases the low frequency level by 3dB. Hence, when you place your subwoofer up against a wall, you get a higher level of low frequencies than when it is placed further away from any wall. Similarly, when you place it in a corner, the three reflecting surfaces further increase the level. However, this may result in uneven distribution of bass across your room, as discussed before. Hence, experiment with the placement and monitor its bass while sitting at your favorite listening spot. It may take a while before you finally arrive at the optimum location.

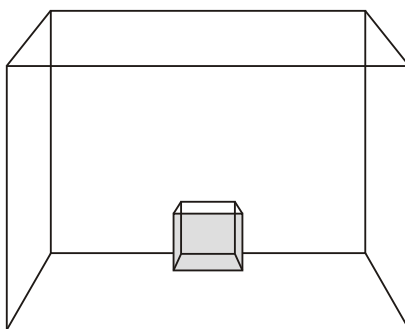
One experiment that usually works is this. Start out by placing your subwoofer where your favourite listening spot is (you will have to take the trouble of vacating your armchair, but only briefly!) Then, turn on your subwoofer and move across the room to find a spot where bass response is best. This is the optimal position of your subwoofer with reference to your favourite listening spot.

FIG. 3: SUBWOOFER PLACEMENT

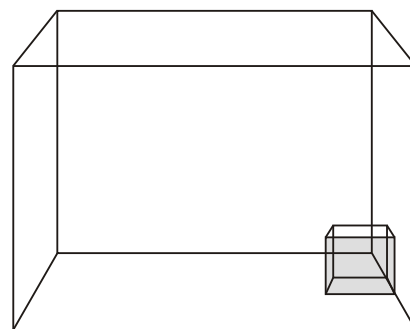
... In a corner



... Against a back wall



... Against a side wall



Connections & Operations

After unpacking, check that you have all the accessories as per the list below:

5 m cable with RCAs on both sides	-	1
Steel spike	-	4
Tightening lever	-	1

1. Screw on the steel spikes into the 4 threaded inserts on the bottom face of the Power Pack Sub cabinet. For tightening the spikes, use the tightening lever. If the cabinet does not rest on all fours, loosen any spike or spikes as required.
2. Connect the satellite speakers to the binding posts on the Power Pack Sub. There are 2 pairs of binding posts - one for each channel. Each pair consists of a red binding post to which the '+' wire of your speaker should be connected and a black binding post to which the '-' wire of your speaker is to be connected. To connect, unscrew the binding post and insert the wire into the exposed hole, then screw on again. Make sure that there is no loose strand coming out of the cable.
3. Connect the source you wish to plug to the Power Pack. The sockets at the back of the Power Pack accept RCA type plugs.
4. Check the power switch is in the OFF position, and the controls are as follows:

BASS control	-	centre position
TREBLE control	-	centre position
VOL control	-	minimum position

Connect the power cord to an utility AC socket.
5. Switch on power. A green LED at the front of the speaker will glow. This is an indication that the unit has become ON. Play the source that you have selected. Increase volume. Keep volume, bass and treble control at whichever position you like best.
6. To use any peripheral devices like the multi-room adapter or stereo preamplifier, please refer to their respective operation manuals.

Troubleshooting

Your subwoofer has undergone thorough measurement and testing in our factory before being shipped. Manufacturing defects have thus been minimized. However, in the unlikely event that practical inconveniences arise, the following should assist to remedy the same.

If your concern is not cited below, please contact your local Sonodyne dealer or a Sonodyne Authorized Service Centre.

Problem:

Bass response seems to be inadequate ...

Solution:

The subwoofer may not be getting adequate input drive. This can happen in the event that you are using only one of the 2 Line Level inputs. Ensure that both L and R inputs of the subwoofer are receiving the input signal (even though the input may be mono).

Problem:

After connecting the amplifier to the subwoofer, and the subwoofer to the front speakers, the front speakers produce no sound ...

Solution:

Ensure that you have connected the speaker wires from the amplifier in the correct fashion (Refer to Fig. 2)

Specifications

System	Bi-amplified front firing subwoofer
Drive Unit	1 x 8" subwoofer
Enclosure	Vented; MDF
Internal Volume	22 Litres
Frequency response (subwoofer)	35Hz – 150Hz (-3 dB)
Amplifier Frequency response (satellites)	150Hz – 30 kHz (-3 dB)
Amplifier Power	Subwoofer: 60 Watt (8 ohms) Satellite: 30 + 30 Watt (4 ohms) 25 + 25 Watt (8 ohms)
Amplifier Signal to Noise Ratio	80dB (A - weighted)
Amplifier THD	Less than 0.05% at rated power
Sensitivity	150mV for rated power (subwoofer)
Active Crossover	150Hz, second order
Subsonic filter	35Hz, second order
Controls	Volume, Bass, Treble (mounted on recessed side panel)
Bass control	± 6 dB at 100Hz
Treble control	± 6 dB at 10KHz
Indicators	Standby (red) & Power ON (green)
Input	One line level input via RCA socket One dedicated input through 5-pin DIN socket
Output	Two pairs of Binding posts for satellites One pair of RCA for Surround speakers
Power Supply	230V AC - 50Hz
Power Consumption	270 VA max
Dimensions (h x w x d) mm	388 X 262 X 340 (without spike)
Net Weight	15.7 KG
Standard accessories	4 spikes
Finish	Black PVC with piano-gloss top.