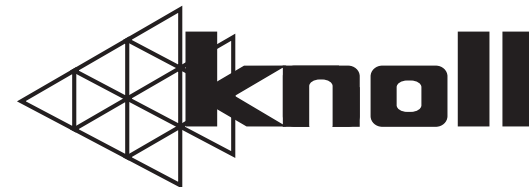


Amplifier's speaker rating (in ohms)	1-8 or 1-16	2-8 or 2-16	4-8 or 4-16	6-8 or 6-16	8 or 8-16
Maximum number of VC100PM's	24	12	6	4	2

- The maximum number of VC100sp's and VC100pm's per amplifier is dependent on the minimum speaker impedance rating of the amplifier or receiver.
- Suggest minimum 18 gauge speaker wire and 12-16 gauge wire for runs longer than 30 feet (10m).



VC100sp

SILENT-START™
POWERMATCH™
TRANSFORMER-FREE™
STEREO VOLUME CONTROL

Information and
Installation Guide

All Knoll transformer free
products include patent
pending exclusive designs

Congratulations for choosing the finest stereo volume control available. To assure correct installation and to realize the full potential of this new volume control, please read and follow these instructions carefully.

The Knoll VC100sp silent start transformer free room volume control has a power capacity of 100 watts RMS per channel with 350 watt peaks for 5 seconds permissible. Speakers can be 4-16 ohms. The VC100sp has floating independent grounds so bridged amplifiers can be safely used. Frequency response is DC to 500,000 Hz +/- 0.1 dB at all power levels up to 350 watts. THD and IM distortions are barely measurable. The VC100sp has an POWERMATCH automatic impedance matching system built in allowing up to six or more POWERMATCH volume controls to be connected to one amplifier without danger of shutdown.

USA and CANADA WARRANTY

Knoll Systems warrants its VC100sp sold in the USA or Canada by authorized Knoll Systems dealers to be free of defects in materials and workmanship. This warranty extends for three years from the date of purchase by the original consumer. Any VC100sp returned to and found to be defective by Knoll Systems within the warranty period will be repaired or replaced at Knoll Systems option, at no charge. Knoll Systems will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state to state.

INSTALLATION TIPS:

1. Follow all electrical and building code requirements in your area.
2. The VC100sp can be installed in an electrical junction box but it is not required. Make sure the VC100sp white elements do not touch anything, especially plastic vapor barriers. To obtain the full power rating, volume control heat needs to be ventilated. When installing the VC100sp in an electrical box, remove the bottom and top knockouts or drill holes to let heat dissipate.
3. Never install the VC100sp in the same electrical junction box as high voltage equipment (75+ volt) unless an approved barrier separates high from low voltage equipment.
4. Speaker wire can be solid or stranded. Suggested minimum wire size is 16 gauge and 12-14 gauge for runs longer than 30' (10m).
5. Wire left and right speaker outputs from the amplifier, receiver or interface to the VC100sp inputs. VC100sp inputs can be daisy chained to other VC100sp's.
6. Proper polarity is essential to achieve best speaker sound quality with maximum output. Be careful to wire the + or positive terminals of the amplifier, interface, VC100sp volume control and speakers together. Never connect left and right channel wires of the positive OR

ground (-) together as amplifier damage may result. The - or negative terminals of the amplifier, volume control and speakers must be wired as shown in the diagram.

7. Wire the VC100sp "SPEAKER" outputs to the corresponding speaker terminals as indicated on the VC100sp connector.

8. Connect the two 12VDC power supply wires to the VC100sp as shown taking careful note of the polarity. These power supply wires can be daisy chained from room to room.

9. Plug the 12VDC power supply into the switched outlet socket on the stereo amplifier or receiver. The VC100sp will always default to the red standby mode when the stereo is switched off. To hear sound in a room after the stereo has been switched on, press the small button. The led glows green and the sound level can be adjusted by rotating the volume control knob.

Knoll Systems
145 Tye Drive
Point Roberts,
WA 98281



VC100sp

© COPYRIGHT 1996-2002
ALL RIGHTS RESERVED