

Owner's Manual

K-9601/K-9602/K-9603

Dual-Source Speaker Selector
with Volume Control



SPECIFICATIONS

K9601

Power: 100 watt per channel RMS continuous
 200 watt per channel average
 300 watt per channel peak
Volume Control: 42 dB attenuation, 12 positions
Impedance Matching: Autoformers
Wire Size: up to 12 gauge wire
Dimensions: 8.5" W x 3.0" H 6.25" D(216 mm X 7.6 mm X 159 mm)
Weight: 4 lb(1.8 kg)

K9602

Power: 150 watt per channel RMS continuous
 300 watt per channel average
 450 watt per channel peak
Volume Control: 42 dB attenuation, 12 positions
Impedance Matching: Autoformers
Wire Size: up to 12 gauge wire
Dimensions: 17" W x 3.0" H 6.25" D(432 mm X 7.6 mm X 159 mm)
Weight: 9 lb(4.05 kg)

K9603

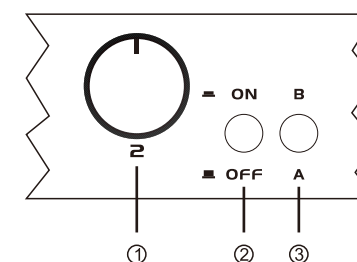
Power: 200 watt per channel RMS continuous
 400 watt per channel average
 600 watt per channel peak
Volume Control: 42 dB attenuation, 12 positions
Impedance Matching: Autoformers
Wire Size: up to 12 gauge wire
Dimensions: 17" W x 3.0" H 6.25" D(432 mm X 7.6 mm X 159 mm)
Weight: 10 lb(4.5 kg)

Congratulations on your purchasing of a KARBON K9601/K9602/K9603 Dual-source Speaker Selector with Volume Control. Please take a few moments to read the entire manual, and be sure to retain this document for future reference. Please read and observe all safety instructions detailed on each page.

DESCRIPTION

The KARBON K9601, K9602 and K9603 are high-power, dual-source, autoformer-based speaker selectors with individual volume controls for 2, 4 or 6 areas/rooms. Dual-source operation means either one of two different amplifiers/receivers can be chosen to power selected speakers independently. For example, you can choose to listen to jazz music in a couple of rooms and classical music in all the others. Each room has its own input selector, volume control and on/off switch, located on the front of the unit. The KARBON K9601/K9602/K9603 speaker selectors work with all speakers rated from 4 to 8 ohms, and amplifiers rated for 4 to 8 ohm loads.

CONTROLS

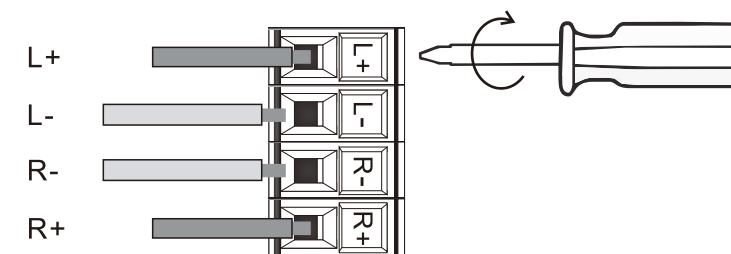


- 1. Rotary Volume Control:** It is used to adjust the volume of each output zone. Turn it clockwise to increase the volume of the corresponding output zone, turn it counterclockwise to decrease.
- 2. On/Off Switch:** It is used to switch on/off each output zone. Switch it to "IN" position, the corresponding zone will be turned on, switch it to "OUT" position, the corresponding zone will be turned off.
- 3. Source Switch:** It is used to select the input source to the corresponding output zone. Switch it to "IN" position, the AMP B source will be selected to the corresponding output zone, switch it to "OUT" position, the AMP A source will be selected to the corresponding output zone.

Remark: The control of each zone of the KARBON K9601/K9602/K9603 Speaker Selectors are the same.

CONNECTIONS

K9601/K9602/K9603 have 4-pole screw down removable terminals for speaker and amplifier connections. These accept wire up to 12 gauge. Remove the terminal by firmly pulling it out of its 4-pole connector. Strip about 3/8" of insulation from the ends of all wires to be connected. If necessary, twist the exposed conductor to insure the no loose strands exist. Insert the wire ends into the screw down connector, being careful to observe proper channel and polarity. Tighten the screws on the connectors. Connect the amplifier(s) and each speaker pair to the appropriate connector. Speaker connections can support multiple speaker pairs wired in parallel or series, provided their combined impedance is a minimum of 4 ohms.



SETTING THE IMPEDANCE

The impedance of the autoformers in SS-V series speaker selectors is set at the factory to be proper for most applications. The K9601 comes set at 2X, the K9602 at 4X, and the K9603 at 8X. However, if certain applications require changing the impedance setting, simply remove the cover of the unit and re-position the jumpers on the autoformers to the necessary impedance-matching setting. KARBON K9601/K9602/K9603 speaker selectors autoformers can be set to impedance-matching settings of 2X, 4X or 8X.

1. Determine the amplifier's minimum impedance. Consult the individual product specifications or the back panel of the amplifier near the speaker terminals. AC impedance is measured in ohms.
2. Identify the correct impedance-matching chart below according to your amplifier's minimum impedance: either for a 4 ohm amplifier or an 8 ohm amplifier. If your amplifier is 6 ohm stable, use the 8 ohm chart.
3. Determine the impedance for each pair of speakers(see its manual).
4. Determine the total number of 4 ohm pairs of speakers(rows on charts).
5. Determine the total number of 8 ohm pairs of speakers(columns on charts).
6. Use the appropriate row and column to determine jumper settings.

		8-ohm Pairs								
		0	1	2	3	4	5	6	7	8
4-ohm Pairs	0	-	1X	2X	4X	4X	8X	8X	8X	8X
	1	2X	4X	4X	8X	8X	8X	8X	8X	
	2	4X	8X	8X	8X	8X				
	3	8X	8X	8X						
	4	8X								

		8-ohm Pairs																
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4-ohm Pairs	0	-	1X	1X	2X	2X	4X	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X
	1	1X	2X	2X	4X	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X		
	2	2X	4X	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X				
	3	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X						
	4	4X	8X	8X	8X	8X	8X	8X	8X	8X								
	5	8X	8X	8X	8X	8X	8X	8X										
	6	8X	8X	8X	8X													
	7	8X	8X	8X														
	8	8X																

SETTING SYSTEM VOLUME

It is important to properly adjust an impedance-matching system to avoid distortion or DC clipping(DC voltage will be produced from an amplifier that is overworked or that has an improper load). These can cause an amplifier/receiver to go into protection, and can cause autoformers on volume controls to heat up. damaging system components. To set up the system, the amplifier/receiver volume should be at its lowest setting, and the speaker selector volume control should be at the highest setting. Slowly adjust the amplifier/receiver volume to a level that is acceptable for the amplifier to produce without clipping.

OPERATION

To operate the K9601/K9602/K9603 speaker selector, simply power the amplifiers and select a source for each amplifier. At the speaker selector, turn on the selected pair of speakers and select AMP A or AMP B. Set the volume by rotating the control clockwise to increase volume or counter-clockwise to decrease volume. The K9601/K9602/K9603 speaker selector allows operation of any combination of speakers selected to either amplifier A or B.

DIAGRAM

