

Unpacking

Open the top of the cartons and take out loose packing and bases in the case of any system using the R45. Put bass cabinet cartons on their sides. Open the bottom and fold flaps out.

Stand cabinets upright and pull carton off the speaker. Remove plastic bags and move cabinets to desired location. Insert spikes if desired. Lay ribbon carton flat and open the lid. Unpack the ribbons from their wrap. Grip ribbons firmly with one hand over each end. Do not put pressure on the screen!

Note that the Ribbons are heavy and are slippery when in the plastic bags!

Caution! The Ribbon structures are heavy. They must be secured properly to avoid toppling and possible serious injury. Do not move speaker by gripping the ribbon structure. Disassemble when moving

Assembly

Screw small bolts with plastic collars into the two bottom holes of the Ribbon. Position ribbon structure in front of its support bracket so that the two bolts are lined up with the “keyholes” in the bracket.

Push ribbon structure toward bracket so that studs pass through keyholes. Downward force and slight manipulation may be required in order to seat studs properly in the keyholes.

Insert large shoulder screw through upper slot in support bracket and screw it firmly into threaded hole in ribbon structure using finger pressure. The hex wrench provided may be used but do not over torque. The bottom bolts are there for alignment. It is not necessary to get them very tight.

Connect the wires from the top of the bass cabinet to the terminals on the ribbon structure. Black to black and red to red. Feel free to experiment with the phasing.

Caution!

Do not put steel objects within 6" of the front of the ribbon structure or bass drivers as they may be drawn into the powerful magnetic gap. This could cause serious mechanical damage to the speaker—not covered by warranty.

Placement

Newform Ribbons have excellent horizontal dispersion and can project an image over a wide area to accommodate a seated audience. Position as far out into the room as possible for maximum depth of soundstage.

The ratio of the distance between the speakers and the optimal seating area is typically between 1:1 and 1:1.4. For example, if the speakers are located 10 feet apart then the ideal seating area is located 10 to 14 feet in front of the speakers. Normally toe-in is not required but if the walls are very reflective some toe-in may be necessary.

It may not be necessary to move low furniture and plants away from the front of the speakers since they have a tall acoustic profile. Experiment in order to find the optimal location for your ears in your listening area.

Magnetic fields are minimized to the sides and rear of the speakers but they do project forward. Do not put a television set or any other magnetically sensitive equipment in front of the speakers.

Power Handling

Newform Ribbon Series speakers may be driven by amplifiers with as little as 10 watts per channel in an average size room. Higher listening levels and larger rooms will demand higher power amplifiers.

The Ribbon Series may be driven safely by high powered amplifiers. The guidelines in the table below assume prudent use

R830 - 150 watts/channel

R630 - 150 watts/channel

R645 - 250 watts/channel

These loudspeakers do not have fuses. Driving your amplifier repeatedly into clipping will eventually result in component failure, which may not be covered by warranty. If in doubt, consult Newform Research about appropriate usage.

Spikes—if desired (mostly useful on wooden joist floors)

Screw one spike into each of the four threaded sockets in speaker base
Level the speaker cabinet by adjusting the depth of insertion of each spike
When desired height and level have been achieved, tighten the locking nut on each spike. Re-mount the Ribbon.

Bi-amping

The bottom pair of binding posts is for the mid-bass drivers and the top is for the Ribbons. Remove the grounding straps when bi-amping or bi-wiring.

Maximum Amplifier Output **

Bass Module:	R830	150 w/channel
	R630	150 w/channel
	R645	250 w/channel

Ribbon Module:	R8	30 watts/channel
	R30	50 watts/channel
	R45	75 watts/channel

** Higher power amps can be used with caution. These ratings represent all that a normal installation is ever likely to need. See Info Pack more on power requirements. Better yet, call or e-mail us.

Break in periods vary from 2 to 4 days for noticeable smoothing, and up to 3 weeks for complete break in to occur. You should get a very good soundstage right out of the box with minimal tweaking.

In home theater applications, try to get the Ribbons as far ahead of the plane of the screen as possible. This improves soundstage depth. When using a subwoofer, try running your Newform speakers full range first to avoid any degradation of the sound caused by running the signal through the sub's high pass filter. Some subs have very good crossovers and some do not. The electronic crossover in your processor is probably the best bet for fidelity.