



# **What is the RCA quantaire sealed speaker system?**

RCA's Quantaire Sealed Speaker System features a combination of Elastomer Suspended, Air Cushioned Speakers, and Sealed Speaker Enclosures. Read inside to find out more about each of these features and how they result in beautiful, realistic sound.

# RCA's quantaire speaker

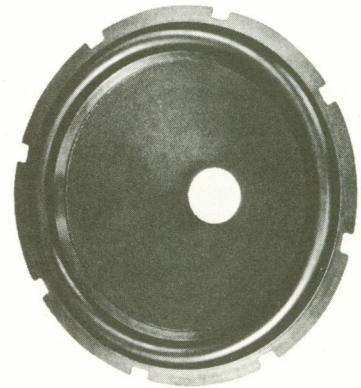
## What is an air cushioned speaker?

An air cushioned speaker is a speaker specifically designed to be used in a sealed speaker enclosure. Since the speaker cone moving the air causes the sound you hear, the freer or greater the movement, the more sound produced. Air cushioned speakers have more freedom of movement than conventional non-air cushioned speakers. This characteristic is generally achieved by connecting the cone of an air cushioned speaker to its frame with a material that moves back and forth very freely, such as impregnated cloth, paper or rubber.

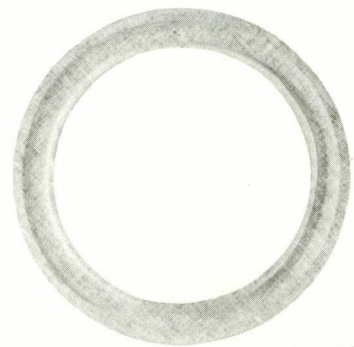


## Elastomer suspended,

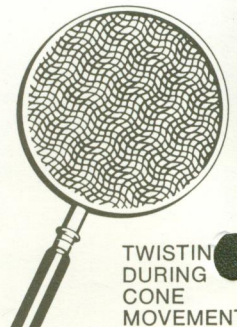
RCA's Elastomer Suspended, Air Cushioned Speaker has a cone which is attached to the frame by a flexible rubber ring rather than the cloth or paper ring used on some other types of air cushioned speakers.



Cloth, if it has a cross-hatched structure, may twist as the cone moves and can cause distortion in the sound.



CLOTH  
STRUCTURE



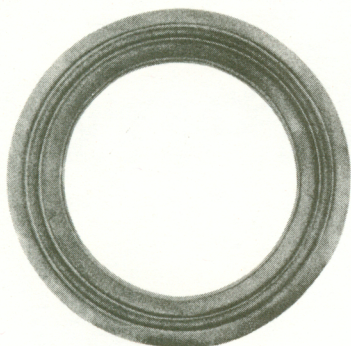
TWISTING  
DURING  
CONE  
MOVEMENT



# Sealed speaker system

## air cushioned speakers

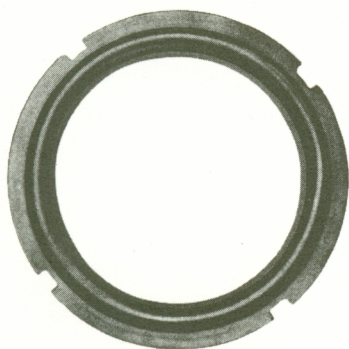
Paper, on the other hand, may be stiffer than cloth or rubber.



RCA's Elastomer Suspension (rubber ring) has neither of these characteristics. It's flexible, not stiff. Its structure allows free movement of the cone. Since it is the cone which actually moves the air, causing the bass notes that you hear, the freer or greater the movements, the truer the low notes.

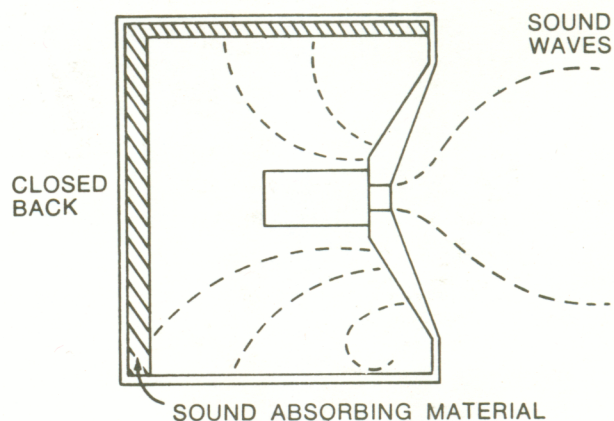
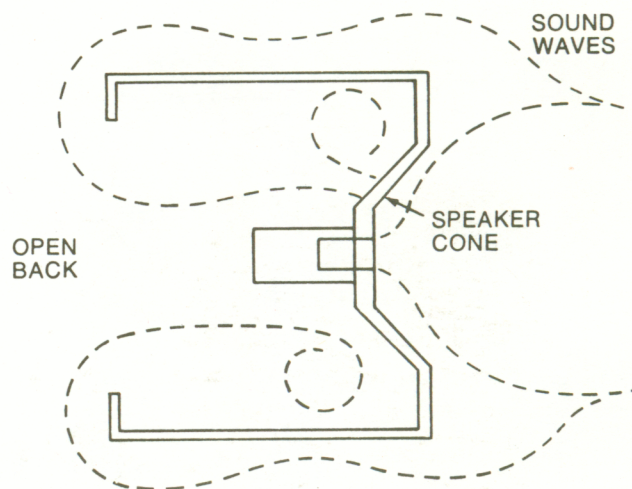
The Elastomer ring serves another function much more efficiently than a cloth ring in that it absorbs vibrations which could be transmitted through the speaker causing annoying distortions. This characteristic, therefore, results in sound which has less distortion.

This design, therefore, results in a speaker that is superior to the conventional type in its ability to reproduce true sound.



## Sealed speaker enclosures

In an open-backed speaker system, bass notes coming from the back of the cabinet may tend to distort some of the bass responses coming from the front. The RCA QUANTAIRE SEALED SPEAKER SYSTEM uses sealed speaker enclosures to virtually eliminate distortion of the bass notes. Substantially, all the sound comes from the front, and back wave sound cancellation is no longer a problem. The result is deeper, richer reproduction of bass notes.





# **What is the consumer benefit of the RCA quantaire sealed speaker system?**

## **DEEPER, RICHER BASS NOTES . . .**

Partial distortion of bass notes caused by back wave sound cancellation is virtually eliminated by the use of sealed speaker enclosures. Its Elastomer Suspended Air Cushioned Speakers allow for freer or greater movement and therefore truer sound reproduction.



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