# RECTILINEAR RESEARCH CORP. 107 Bruckner Boulevard New York, New York 10454

# OF THE RECTILINEAR® XIa BOOKSHELF LOUDSPEAKER SYSTEM

#### I. BASIC CONFIGURATION AND DESIGN GOALS:

The Rectilinear XIa is a two-way speaker system utilizing an extended-range woofer and an extended-range tweeter, both of the moving-coil principle. The cabinet is of normal bookshelf size but somewhat unconventional in that it is a tube-vented bass reflex enclosure instead of being completely enclosed.

The Rectilinear XIa was designed to make available to critical listeners a budget-priced bookshelf speaker of genuinely accurate response and very low distortion, including low time delay distortion. The utmost simplicity of design was sought in order to eliminate unessential parts and keep labor costs down, as long as no compromise in performance would result.

Particular emphasis was placed on high efficiency without loss of bass response, as well as on relatively constant impedance across the frequency spectrum. These characteristics were considered necessary to make the speaker compatible with receivers and amplifiers of moderate price and therefore of modest power output. The subjective listening quality of the Rectilinear XIa was to be judged by the same standards as that of higher-priced speakers in the Rectilinear line.

#### II. CONNECTION FROM AMPLIFIER TO SPEAKERS:

The Rectilinear XIa is a high efficiency loudspeaker system, designed to be operated from a source impedance of 8 ohms, or less. Wiring should be heavy gauge, (18 gauge minimum), insulated lamp cord wherever possible. Small gauge "speaker wire" is absolutely not recommended for use with this system as it will cause a loss of power output and increase distortion from your amplifier.

When connecting the Rectilinear XIa to your amplifier, be sure they are wired in-phase. This means that the terminal marked "common," of each speaker system should be connected to the terminal marked either common, ground, or (-) of your amplifier. The terminal marked "8 ohms," of the speaker should be connected to the terminal marked "8 ohms" or (+). Connect the left system to the left output terminals of the amplifier and the right speaker to the amplifier terminals, (SEE DIAGRAM). Wiring the loudspeakers in phase assures that no cancellation of sound will occur due to the left and right speakers' cones moving in opposite directions.

# **Rectilinear Research Owners Manual**

**Terry C. Jones** 

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