

MG ___ X Upgrade Program

Available 11/15/23



The MG___X Upgrade Program

The general idea of the ‘X’ program is to take the existing design of a given speaker, and simply, almost one-for-one, replace all of the components leading up to the driver, with superior ones. This yields a noticeable, graphable, and aching improvement. There are certain model-specific features, but the MG___X Upgrade Program is at its core characterized by the following factors:

Better Capacitors:

All capacitors that aren’t already, are replaced with high quality, copper-rich, polypropylene capacitors [banks]. Each capacitor [and bank] used is individually tested to the hundredth such that left and right crossovers’ capacitances are within five thousandths. With the increased level of testing and decrease in tolerance, minor value tweaks are employed in some models resulting in fewer capacitors used and a smoother response overall.

Better Coils (Inductors):

All coils that aren’t already, are replaced with high-gauge, copper wire, air-core, bobbin wound coils [arrays]. Each coil [array] used is individually tested to the tenth such that left and right crossovers’ inductances are within five hundredths. Model depended: with the above capacitance changes in mind, some values are minorly adjusted for smoother response overall.

Better Wiring:

All wiring (aside from the green (+) and yellow (-) wires for True Ribbon Tweeters) is replaced with 15ga or higher solid copper wire. Excess wire (for ease of assembly, for instance) is completely removed. Careful attention is paid to design, layout, and pathing of the crossover components such that wire lengths are short and the overall wire-mass is significantly reduced. Left and right crossover and nameplate impedances are ensured to be equivalent for ideal balance.

Better Connections:

All connections within the circuit, from the solder lug attached to the terminal screw on the nameplate, to the crossover board, to the driver terminal block, and back are soldered connections. Besides the terminal screw, solder lug, and jam nut connection on the nameplate, there are no mechanical connections used

Better Inputs:

All nameplate components are gold rather than nickel.

Appearance:

The appearance of an MG___X is not intended to be visually really any different from that of its non-X counterpart (aside from the gold nameplate components in situations where that wouldn’t already be gold). The crossover of some models may be visible, such as with the MG1.7x, and as such that will be noticeably different in a side-by-side test, from the back of the speaker. The nameplate will also have a small red “X” after the model to denote that it is a part of the X Upgrade program.

If you have any questions (technical or otherwise) regarding the Upgrade to X Program, please do not hesitate to ask! You can contact your local Magnepan Certified Dealership—you can find a full list of our dealers on our website, magnepan.com—or you can reach out to the Magnepan Service Department directly

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