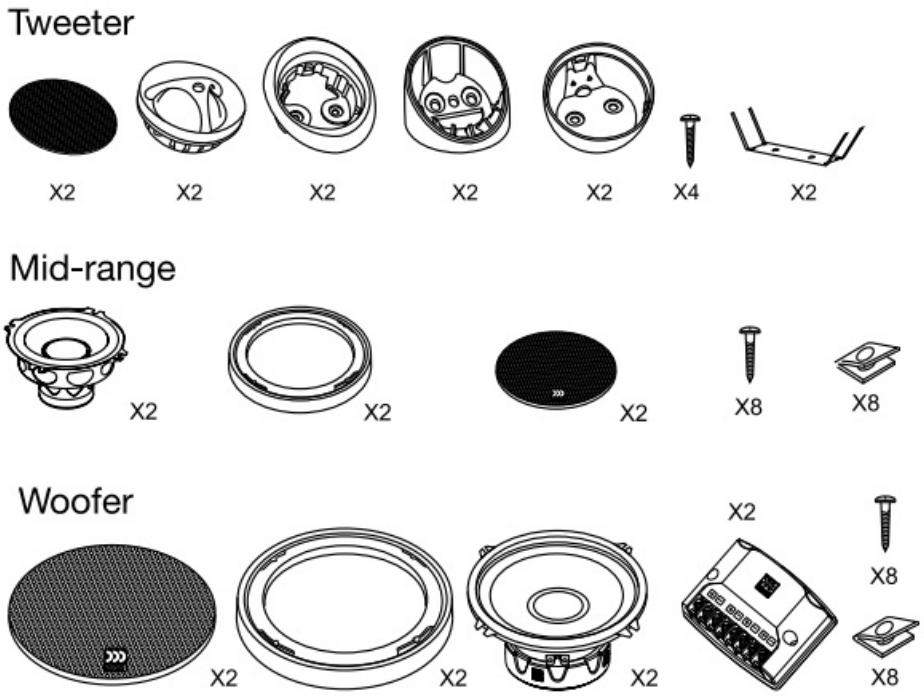
morel 210MU603A Car Audio Component Speaker System User Guide

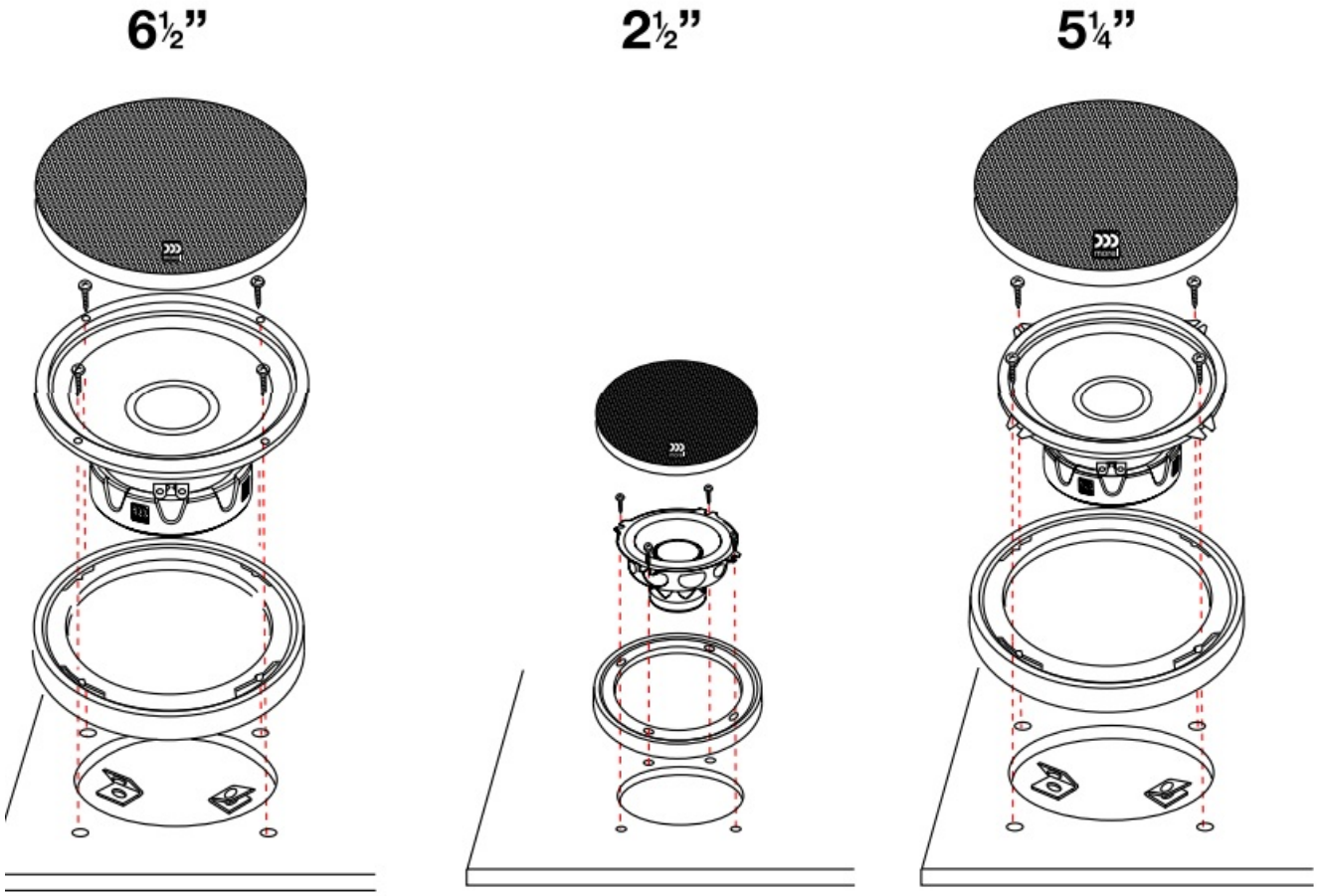
Contents

morel 210MU603A Car Audio Component Speaker System

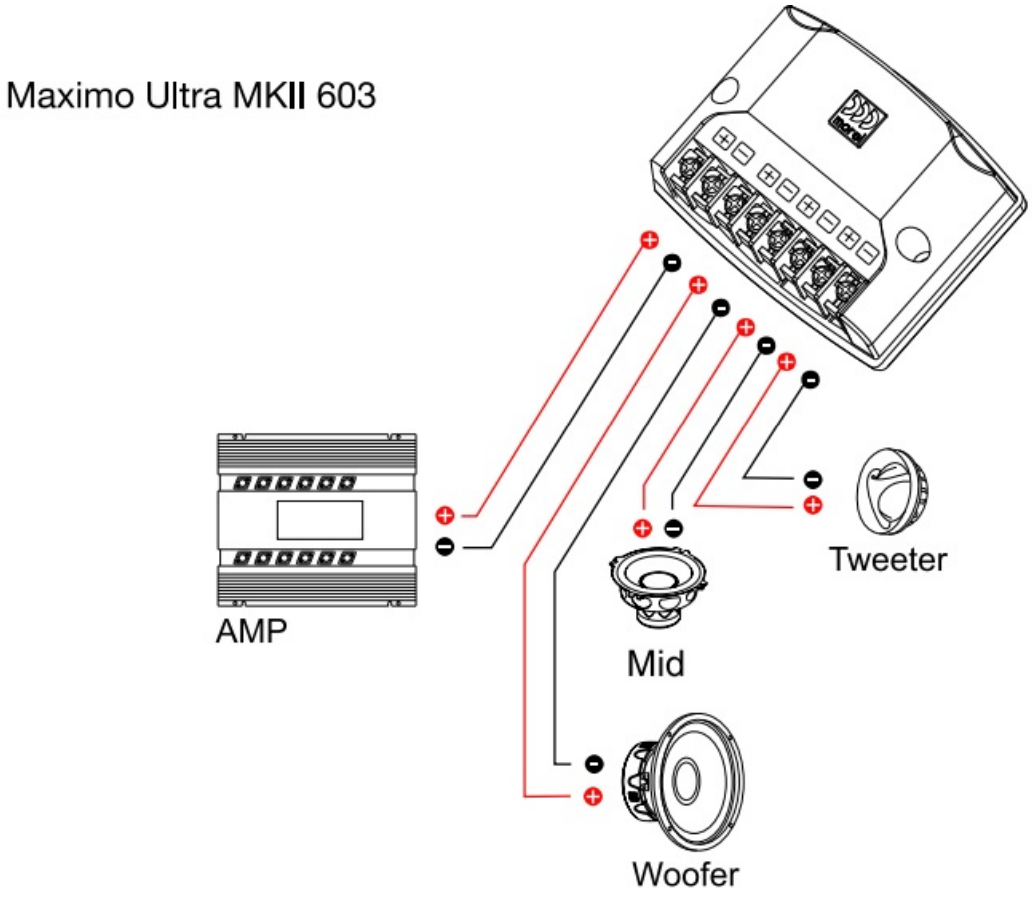
Content

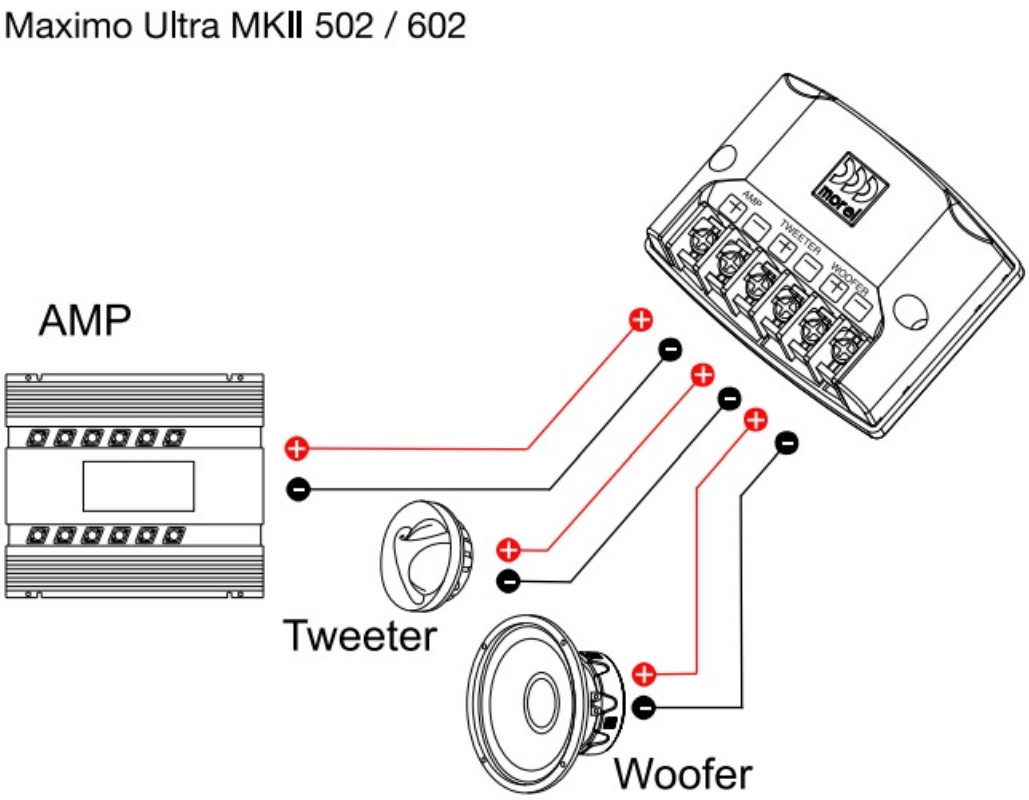


Woofer and Mid Mounting



Crossover Connection





Active Configuration Guide

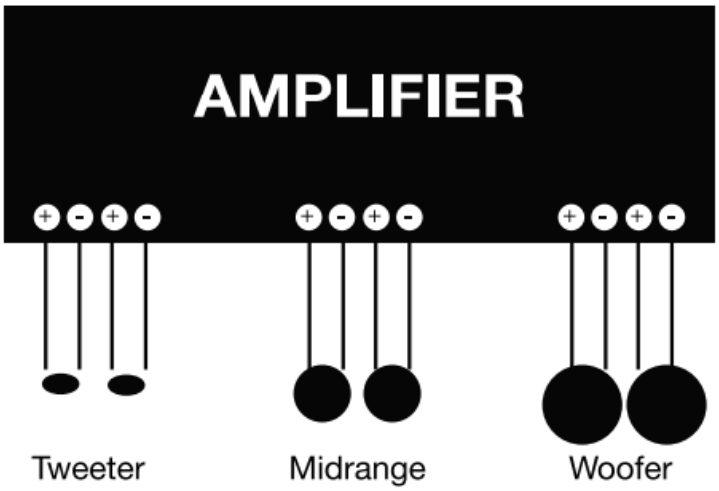
The Maximo Ultra MII 603A is an “active” component speaker set requiring the use of electronic crossover and six channels of amplification. The crossover can be a stand-alone electronic type or integrated in an aftermarket radio, amplifier, or a DSP (digital sound processor). Setting up the Maximo Ultra MI603A system may vary based on the crossover’s features, vehicle cabin acoustics, and the mounting location of the individual speakers. The following guidelines should be used to assure each speaker in the system performs to the highest level while functioning in a safe operating range.

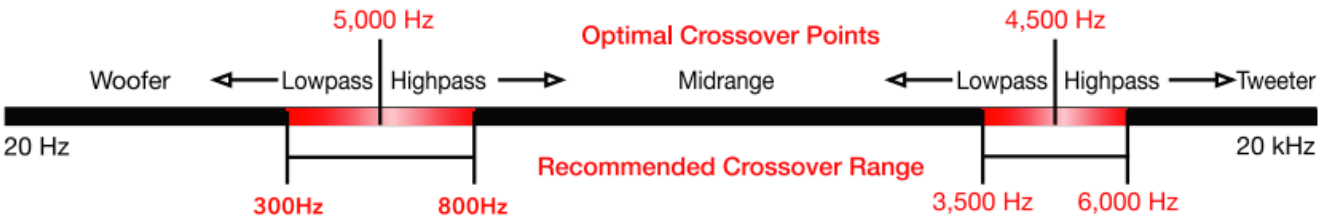
Below is the Recommended Crossover Guide. The guide contains both recommendations for Optimal Crossover Points to be used as a starting point for the crossover settings. Additionally, there is a Recommended Crossover Range for each speaker that you can reference to safely dial in your system. Please note that Morel recom- mends using no less than a 12dB per octave filter on all crossover selections, however a steeper filter slope (18dB or 24dB) may be used as needed.

Recommended Crossover Guide

- **Optimal Crossover Points**
  - Tweeter high-pass filter 4,500Hz @ 12dB
  - Midrange low-pass filter 4,500Hz @ 12dB
  - Midrange high-pass filter 500Hz @ 12dB
  - Woofer low-pass 500Hz @ 12dB
- **Recommended Crossover Range**
  - Tweeter high-pass filter 3,500-6,000Hz @ 12dB
  - Midrange low-pass filter 3,500-6,000Hz @ 12dB
  - Midrange high-pass filter 300-800Hz @ 12dB
  - Woofer low-pass 300-800Hz @ 12dB

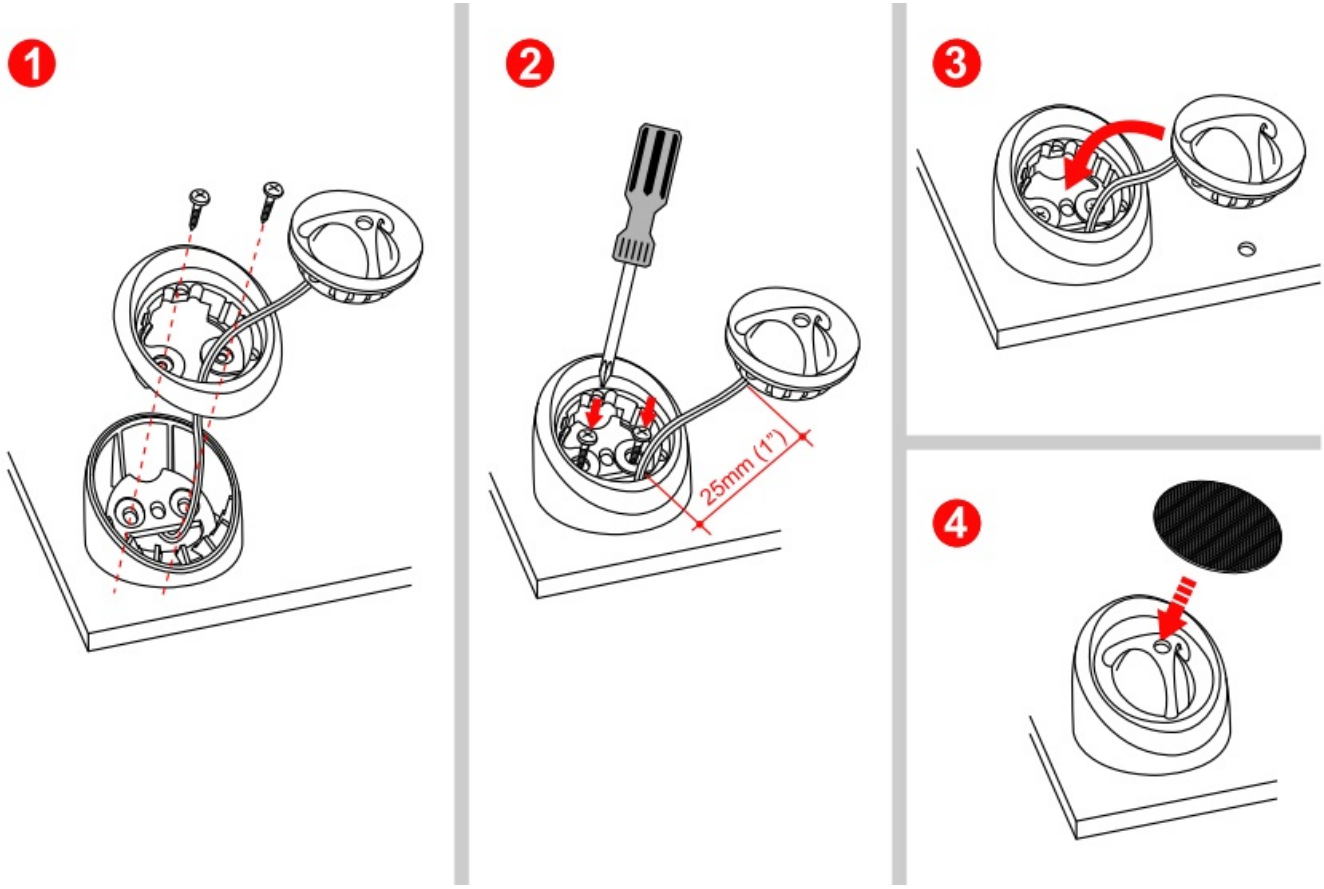
Wiring



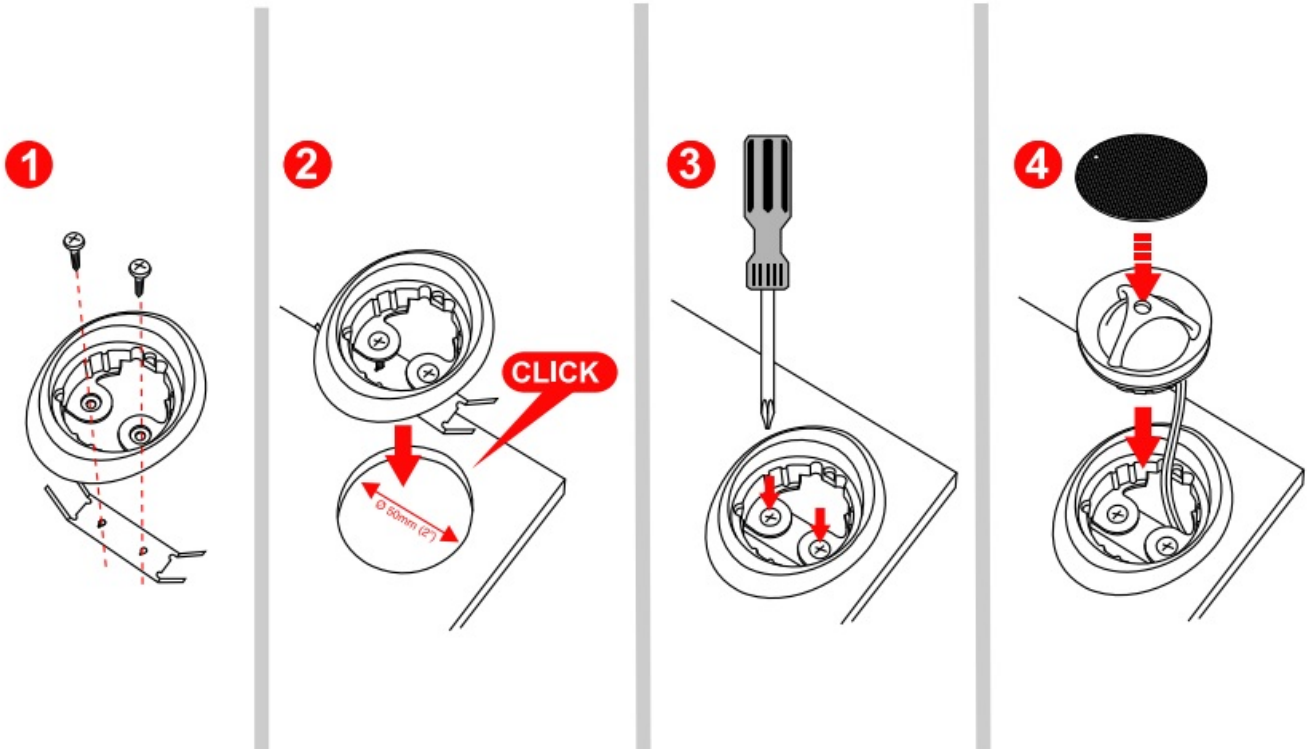


Mounting

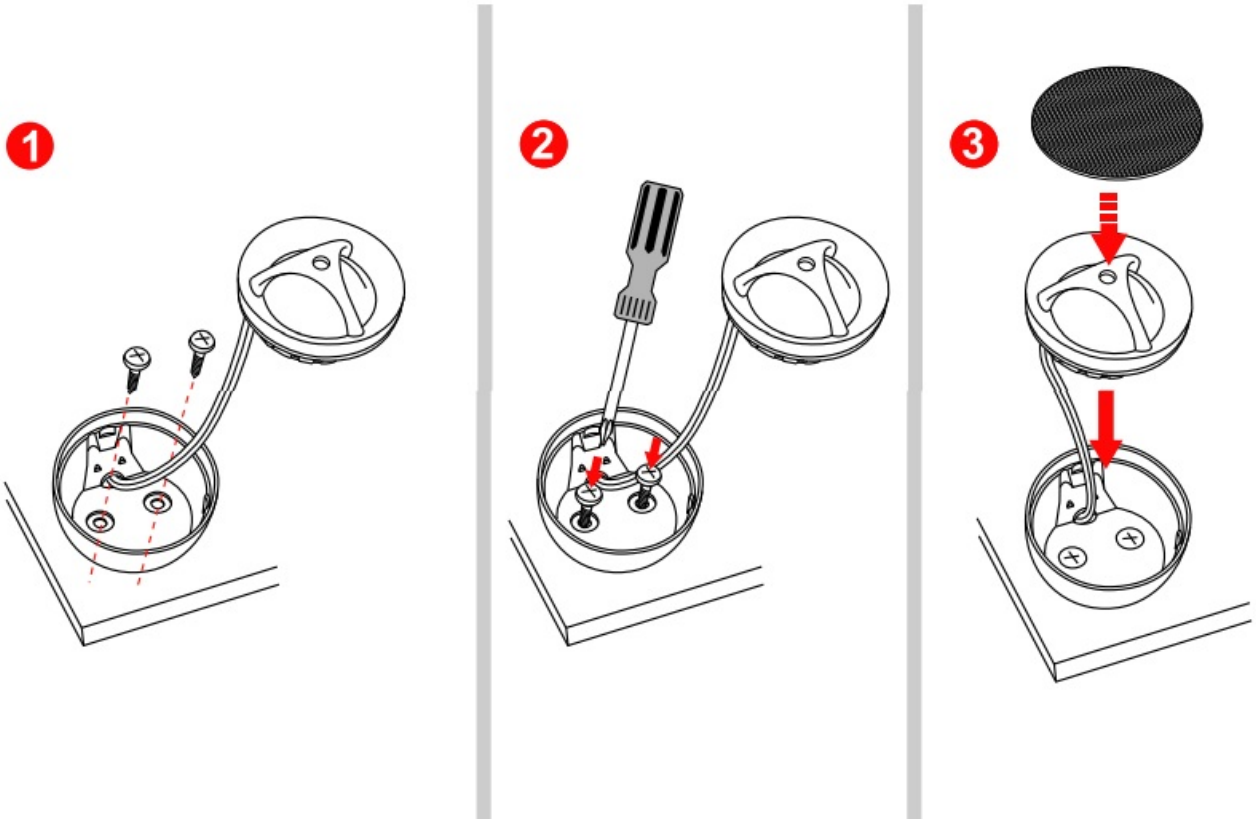
Surface mounting



Flush mounting for 50mm (1.96″) cutout – Option 1



Flush mounting – Option 2



Specifications

Maximo Ultra MII 603/603A		
Nominal Impedance		4 ohm
Power Handling		100W
Max. Transient Power Handling		180W
Sensitivity (2.83V/1M)		90.5 dB
Frequency Response		50-20,000 Hz
Voice Coil Diameter	Woofer: Tweeter: Mid:	25mm (1”) 25mm (1”) 20mm (0.8")
Voice Coil Wire		Copper
Magnet System	Woofer: Tweeter: Mid:	High grade ferrite magnet Neodymium Double Neodymium magnet
Mounting Depth	Woofer: Tweeter: Mid:	60mm (2.4") 20mm (0.8") 35mm (1.4")

		Maximo Ultra MII 502	**Maximo Ultra MII** 602
Nominal Impedance		4 ohm	4 ohm
Power Handling		90W	100W
Max. Transient Power Handling		160W	180W
Sensitivity (2.83V/1M)		89 dB	90.5 dB
Frequency Response		50-20,000 Hz	50-20,000 Hz
Voice Coil Diameter	Woofer: Tweeter:	25mm (1”) 25mm (1”)	25mm (1”) 25mm (1”)
Voice Coil Wire		Copper	Copper
Magnet System	Woofer: Tweeter:	High grade ferrite magnet Neodymium	High grade ferrite magnet Neodymium
Mounting Depth		56mm (2.2”)	60mm (2.4”)

www.morelhifi.com

Documents / Resources

	**morel 210MU603A Car Audio Component Speaker System** [pdf] User Guide 210MU603A, 210MU603A, 210MU603A Car Audio Component Speaker System, 210MU603A, Car Audio Component Speaker System, Component Speaker System, Speaker System

References

- **User Manual**