



polkaudio®



FULL RANGE

OWNER'S MANUAL

MM461P

MM691

MM521

MM5251

MM571

MM6501

MM651

polkaudio®



Safe Limits of Operation

Polk Audio specifies the recommended amplification range for each of its passive (non-amplified) loudspeakers. Typically that specification will be expressed as a range of power such as 20-200 W (per channel). It is important to understand what those numbers mean when choosing a receiver or amplifier for your Polk loudspeakers. The lower number indicates the lowest continuous rated power that will yield acceptable performance in a typical listening environment. The higher number indicates the highest per channel power that should be used with your Polk speakers. That number should not be confused with a "Power Handling" specification and it does not imply that the speaker will safely handle that full amount of power on a long-term basis. We specify a wide range of power ratings because not all electronics manufacturers use the same method for rating power. In fact, high quality lower-rated amplifiers sound better and play louder than low quality units with a higher power rating.

Automobile horsepower is a good analogy. Your car probably has far more horsepower than it needs for your daily commute and is likely capable of going well over 120mph (190km/hr). Having that extra power is good for on-ramp acceleration and danger avoidance (like getting away from brain-eating zombies) but that doesn't mean that it is advisable to operate your car on North American highways at full power and maximum speed for an extended period of time. Just ask your local state trooper if you are in doubt. Similarly, we recommend using amplifiers and receivers with rated power above the Power Handling limits of our speakers because having extra power available for short term peaks is conducive to better sound quality, maximum dynamic range and effortless high volume output. But we strongly urge you not to use the full power of your amplifier or receiver for daily listening.

Loudspeakers can be damaged when an amplifier, regardless of its wattage, is made to play at higher listening levels than its power can clearly produce. Operation at this level can result in very high levels of audible distortion originating in the amplifier, which can add a harsh, gritty sound to your listening material. **If you hear distortion—turn the volume down or risk damaging your speakers.** You can damage just about any speaker, regardless of power rating, if you drive an amplifier to or beyond the point of distortion.

Bring On The Noise!

Please inspect each loudspeaker carefully. Notify your Polk Audio dealer if you notice any damage or missing items. Keep the carton and packing material. They will do the best job of protecting your speakers if they need to be transported.

Figure 1
BASIC COAXIAL CONNECTION

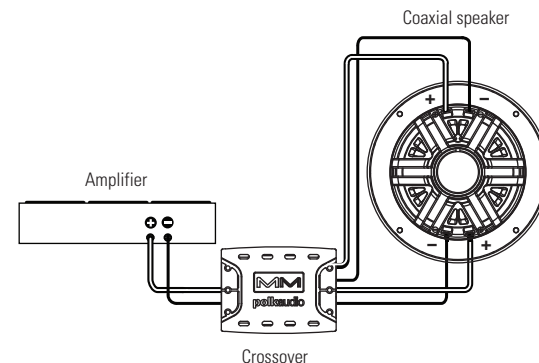


Figure 2
BASIC COMPONENT CONNECTION
INSTALLING MM5251 & MM6501

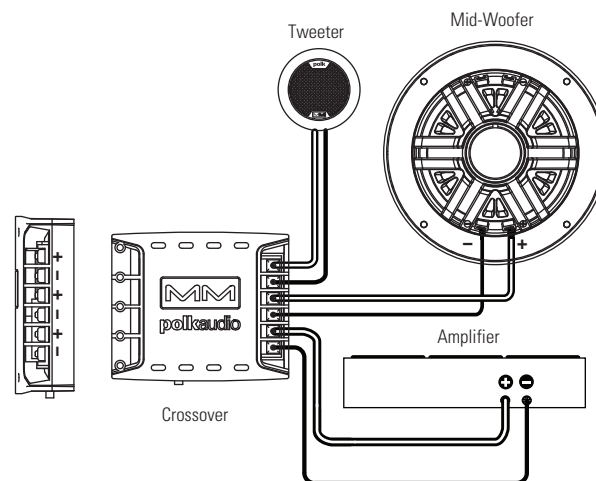


Figure 3
INSTALLING MM521, MM651,
MM5251, MM6501 ROUND MODELS

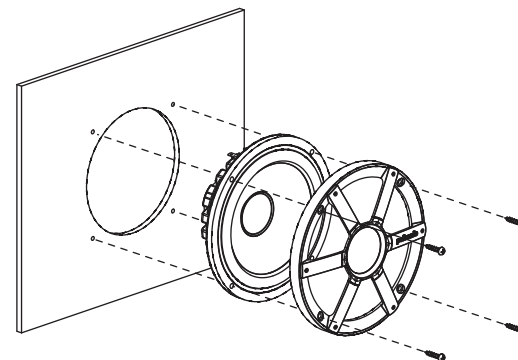


Figure 4
INSTALLING MM461p, MM571
OVAL MODELS

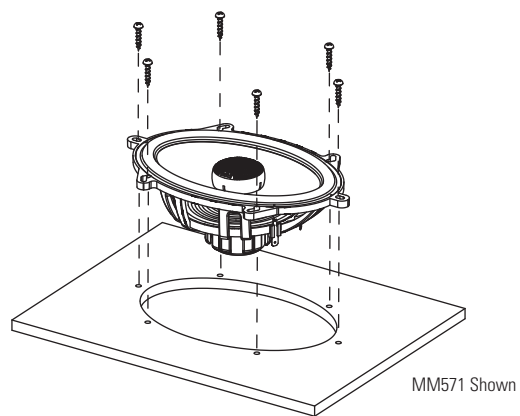


Figure 5
INSTALLING MM691
OVAL MODEL WITH GRILLE

Remove bottom mount spacer
ring before installing grille.

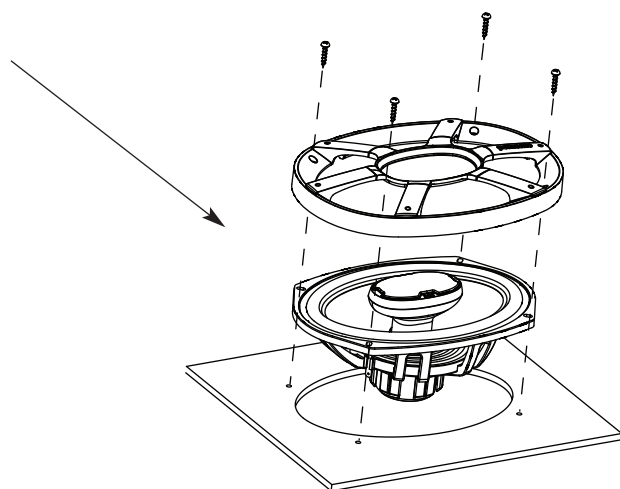


Figure 6
INSTALLING MM521, MM5251,
ROUND MODELS

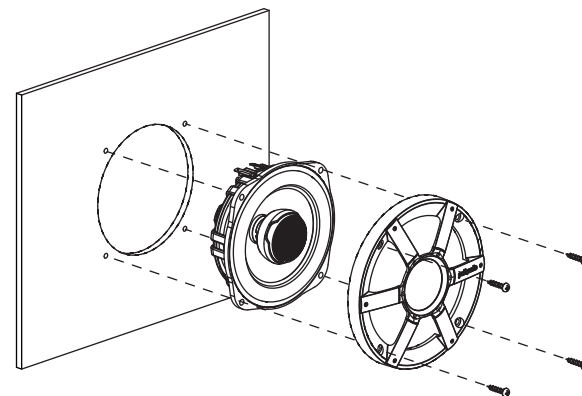


Figure 7
INSTALLING MM651 & MM6501
WITH GASKET

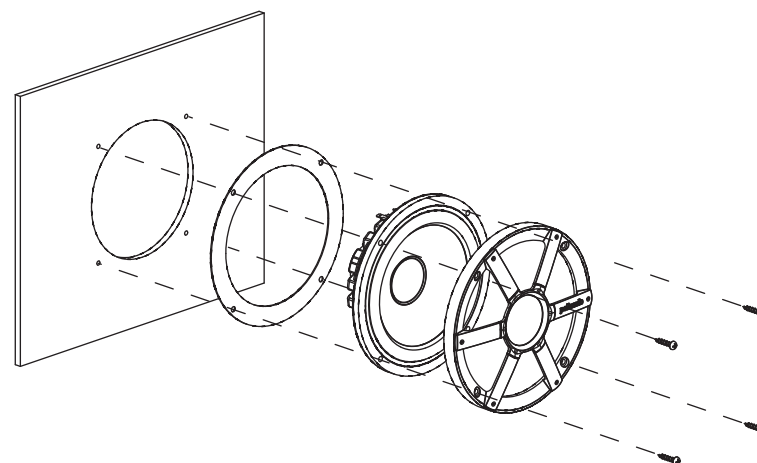
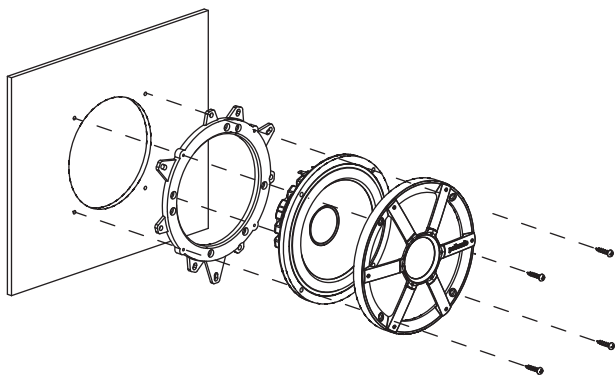


Figure 8
 INSTALLING MM651/MM6501 WITH GRILLE
 Some applications may require using the
 additional spacer/adapter bracket.



SPACER/ADAPTER BRACKET
 (for MM651/MM6501
 driver installation only)

Figure 9
 CROSSOVER MOUNTING Allow
 for ventilation clearance.

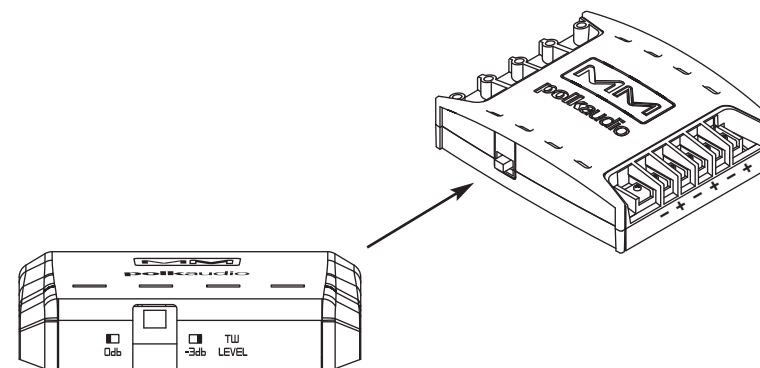
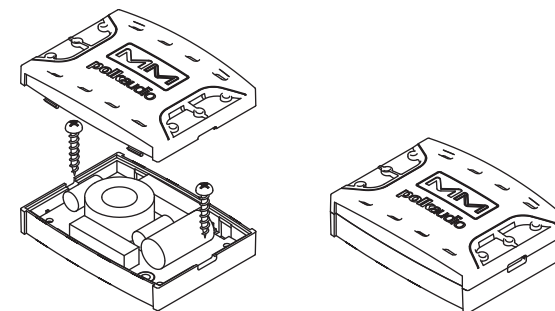


Figure 10
 TWEETER ATTENUATION SWITCH
 A 2-position switch (-3dB, 0dB) allows you
 to adjust tweeter level for the tonal balance that's
 right for your car and system.

MM6501 & MM5251

Figure 12

Flush Mount

TWEETER MOUNTING

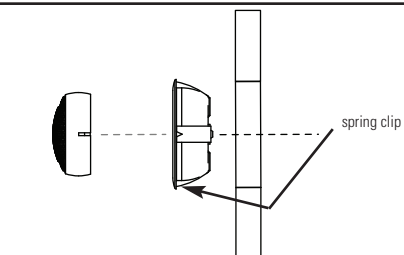
1. Check for proper clearance: The flush mount kit is 7/8" (22.2mm) deep.

2. Mark the center of the hole you want to cut. Then cut a 2" (50.8mm) diameter hole using a hole saw, drill bit or razor knife.

Note: The cup and spring clamp come pre-assembled as a single unit.

3. Route wires through the cutout and then through the round opening in the bottom of the cup.

4. Press the flush cup/spring clamp assembly into the cutout until the spring clamp arm's snap into place.



5. Connect wires from the tweeter terminals for the crossover to the tweeter itself using the faston connectors. Connect the red wire from the (+) positive terminal of the crossover tweeter output to the red positive (+) wire from the tweeter.

Note: Use the included extension wires if the tweeter leads aren't long enough.

6. Mount the tweeter by snapping it into the flush mount cup.

MM6501 & MM5251

Figure 13

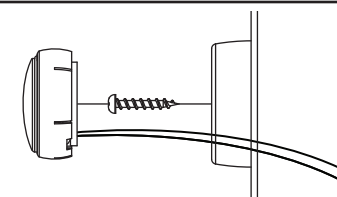
Surface Mount

TWEETER MOUNTING

1. Using the base of the surface mount cup as a template, mark the screw hole and drill them using a 1/8" (3mm) drill bit. Drill a second hole (for the speaker wire) using a 3/16" (5mm) drill bit.

2. Screw surface mount cup to the panel.

3. Push the tweeter wires through the open area at the bottom of the cup and through the 3/16" (5mm) hole in the panel.



4. Connect wires from the tweeter terminals of the Crossover to the tweeter wires using faston connectors. Be sure to connect the red wire strand from the tweeter to the (+) terminal of the crossover tweeter output.

5. Mount the tweeter by snapping it into the mounting cup.

MM Series Full Range/Component Systems Specifications

	MM461p	MM521	MM571	MM651
Type	4" x 6" plate	5 1/4" coaxial	5" x 7" coaxial	6 1/2" coaxial
Driver complement	3 1/2" (87.5mm) mid/woofer	5 1/4" (131.3mm) mid/woofer	5" x 7" (125mm x 175mm) mid/woofer	6 1/2" (162.5mm) mid/woofer
Tweeter complement	3/4" (19mm) soft dome tweeter	1" (25mm) soft dome tweeter	1" (25mm) soft dome tweeter	1" (25mm) soft dome tweeter
Cutout dimensions	3 7/8" x 5 15/16" (115.6mm x 179.7mm)	4 5/8" (117mm)	4 5/8" x 7 3/16" (115.6mm x 213mm)	5" (127mm)
Mounting depth (top)	1 11/16" (43mm)	2 3/8" (60mm)	2 5/8" (67mm)	2 5/8" (67mm)
Mounting depth (bottom)	n/a	2 13/16" (71mm)	3" (76mm)	2 7/8" (73mm)
Peak Power handling	150W	200W	200W	200W
Continuous Power handling	50W	90W	90W	100W
Nominal Impedance	2.7 Ω	2.7 Ω	2.7 Ω	2.7 Ω
Frequency response	70-25kHz	50-25kHz	38-25kHz	40-25kHz
Grille height	n/a	13/16" (20mm)	n/a	13/16" (20mm)
Sensitivity	90dB	92dB	92dB	94dB

WARNING: LISTEN CAREFULLY

Polk Audio loudspeakers and subwoofers are capable of playing at extremely high volume levels, which could cause serious or permanent hearing damage. Polk Audio, Inc. accepts no liability for hearing loss, bodily injury or property damage resulting from the misuse of its products.

- Keep these guidelines in mind and always use your own good judgment when controlling volume:
- You should limit prolonged exposure to volumes that exceed 85 decibels(dB).
 - High volume in an automobile can hinder your ability to safely operate a vehicle.

MM Series Full Range/Component Systems Specifications

	MM691	MM5251	MM6501
Type	6" x 9" three-way	5 1/4" component system	6 1/2" component system
Driver complement	6" x 9" (150mm x 225mm) mid/woofer	5 1/4" (131.3mm) mid/woofer	6 1/2" (162.5mm) mid/woofer
Tweeter complement	(1) 3/4" (19mm) (1) 1" (25mm) soft dome tweeter	1" (25mm) soft dome tweeter	1" (25mm) soft dome tweeter
Cutout dimensions	5 1/2" x 8 3/8" (140mm x 213mm)	4 5/8" (117mm)	5" (127mm)
Mounting depth (top)	3 3/16" (81mm)	2 3/8" (60mm)	2 5/8" (67mm)
Mounting depth (bottom)	3 1/2" (89mm)	2 13/16" (71mm)	2 7/8" (73mm)
Peak Power handling	300W	200W	250W
Continuous Power handling	125W	90W	125W
Nominal Impedance	2.7 Ω	2.7 Ω	2.7 Ω
Frequency response	30Hz-25kHz	50Hz-25kHz	40Hz-25kHz
Grille height	1 1/8" (29mm)	1 1/16" (27mm)	1 1/16" (27mm)
Sensitivity	94dB	92dB	94dB