

MIDBASS SPEAKER SYSTEM



RECOIL<sup>®</sup>

**RMB65-4P,RMB8-4P**

Midbass speaker system 6.5/8-inch

**User Manual**

## INSTALLATION

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Congratulations on your purchase of our product! We hope RECOIL AUDIO will delight you with its impressive performance. In producing our speakers, we utilize high-quality components and cutting-edge materials. This manual contains essential instructions for proper system installation and use. Before installation, please carefully review all guidelines provided. Failure to follow these instructions may result in product damage or unintended malfunctions.

## PRECAUTIONS

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### ATTENTION!

Prolonged exposure to sound pressure 100 dB and higher can cause hearing loss. Use common sense and practice safe sound. Remember that prolonged exposure to excessively high sound levels can damage your hearing. Driving safety comes first.

The manufacturer is not responsible for hearing loss, body damage or property damage due to misuse of this product.

### ATTENTION!

Proceed with the installation only if you are a qualified car audio installer, otherwise contact a professional installation service.

- Always wear safety glasses when using tools.
- Before proceeding with the installation, turn off the car head unit and other electronic devices.
- Disconnect the negative (-) terminal from the car battery before starting the installation.
- Store the loudspeaker in its packaging if you have not proceeded to install it, and always place the loudspeaker with the cone facing up. Never use force when installing speakers.
- Determine the location of the fuel lines, brake pipes, oil lines, and vehicle electrical wiring before proceeding with the installation.
- Check that the installation site has sufficient air exchange on both sides of the speakers before drilling holes.
- Check that nothing interferes with the normal operation of the cone, otherwise the cone will be damaged.
- Use a utility knife to cut off excess pieces of fabric near the hole where the speaker will be installed before starting drilling.

- Use a grommet for the speaker wires (not included) when pulling through sheet metal, otherwise the wire may be damaged by the metal edges of the hole.

## PRECAUTIONS

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Speaker - 1 pair

Instruction - 1 pc

Mounting screw pack - 8 PAIRS

## INSTALLATION

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To install the midbass speakers, the help of a professional installation service is required. In this manual, only the basic rules for connecting midrange speakers and technical specifications are presented.

## SELECTING SPEAKER LOCATIONS

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The choice of where the speaker will be installed has the greatest influence on sound quality. You need to think carefully about where the speaker system will be installed. Places for installing speakers should be of sufficient size.

It is necessary to check that, due to the chosen installation locations of the speakers, there is no interference in the operation of the mechanical parts and electronics of the car.

## PREPARING FOR INSTALLATION

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**Note:** You may need the tools listed below

- Electric drill + drills
- Hacksaw, electric hacksaw for metal
- Standard set of screwdrivers
- Stripping pliers
- Crimping tool and needle nose pliers
- Silicone sealant (for acoustic enclosure), sealing strip (for speakers)

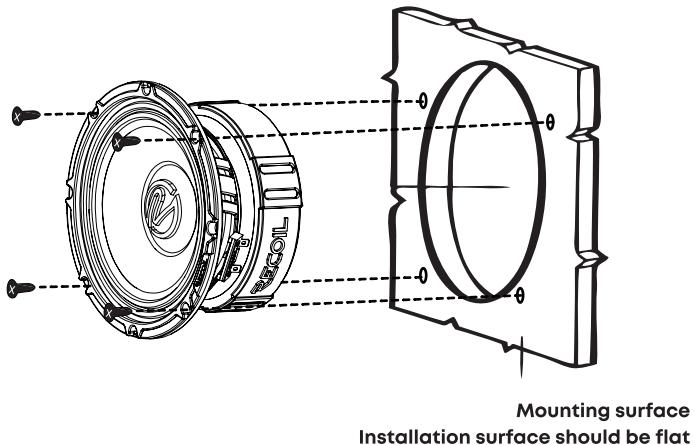
## INSTALLATIONIN THE DOOR

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Before proceeding with the installation of speakers in the car door, please check its construction and window operation. There is a stabilizing stop bar in the car door, which is located between the door and the door arch. The stabilizer bar (or check strap) limits the door's opening angle and provides stability.

## INSTALLATION IN THE REAR PART OF THE VEHICLE

Before installing the speakers in the rear part of the vehicle, Please check the operation of the trunk lid hinges and lift supports (or gas struts). Ensure there is enough clearance for the speaker, as these components move when the trunk is opened. Do not install the speakers too close to the rear window, other wise it will have to be removed when you screw in the screws.



## INSTALLATION OF MIDBASS SPEAKERS

1. Choose a place to install the speaker. Make sure the mounting surface is flat and fits the mounting dimensions of the speaker. Placing the speaker on an uneven surface will damage the speaker.
2. Make sure that the chosen location for the speaker does not interfere with the operation of the vehicle,
3. Cut the template based on the speaker outer diameter. Place the template on the mounting surface where the speaker should be installed and trace around it with a pencil.
4. Make a hole for the speaker. The hole can be made with metal shears or an electric hacksaw.
5. The speaker wire (not included) needs to be connected to the speaker. Use a grommet for the speaker wire when pulling through sheet metal, otherwise the wire may be damaged by the metal edges of the hole.
6. Drill holes with a 1/8 "(3mm) drill.
7. Pull the speaker wire through the hole made and connect to the speaker. Observe the polarity when connecting the speakers.
8. Secure the speaker with screws.

## RECOMMENDED CROSSOVER SETTINGS

For optimum performance, it is recommended to adjust the crossover according to the recommendations below.

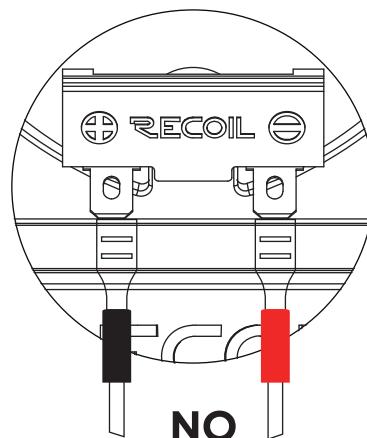
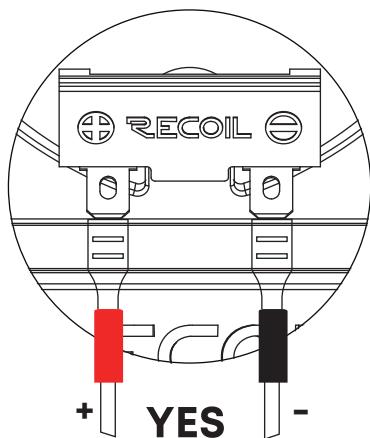
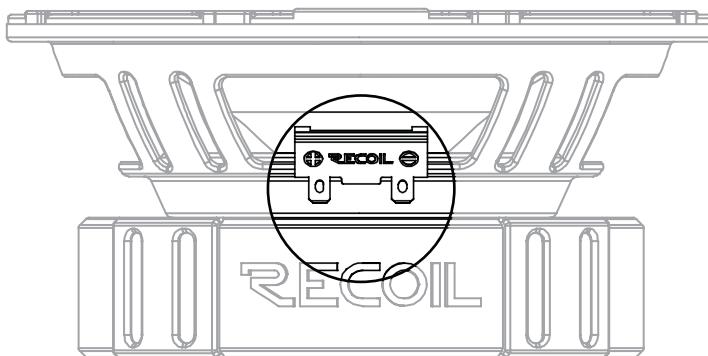
**Note: Crossover settings depend on the speaker size.**

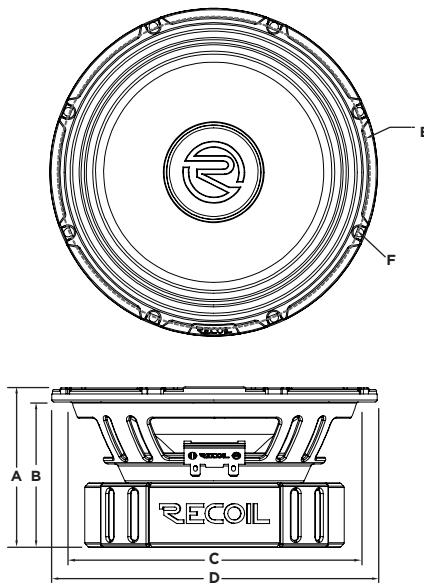
Recommended active crossover

RMB65-4P: 80Hz - 7kHz, 12dB per octave.

RMB8-4P: 65Hz - 6kHz, 12dB per octave.

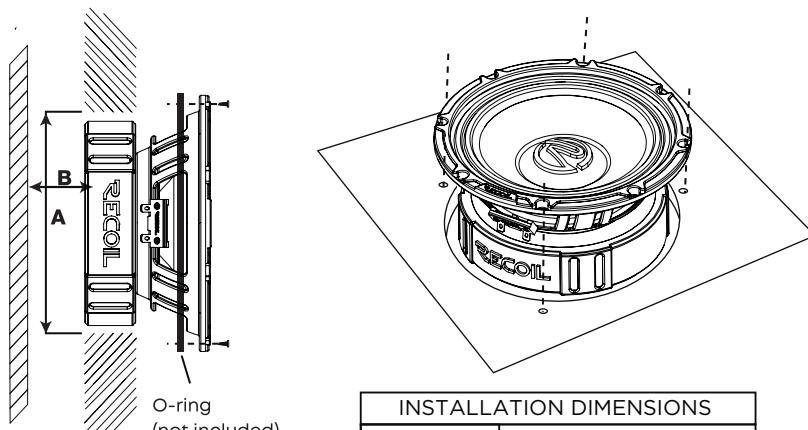
## CONNECTION



**DIMENSIONS** Unit:mm

Model	RMB65-4P	RMB8-4P
A	83.6	92.3
B	76.2	85.7
C	151	188.6
D	170.5	208
E	161	200
F	8xØ5.5	8xØ5.5

Dimensions (mm)

**INSTALLATION**

INSTALLATION DIMENSIONS	
A	151
B	Min: 76

## SPECIFICATIONS

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### RMB65-4P

Type Midbass speaker  
Configuration: 1-way  
Size: 170mm (6.7")  
RMS power: 150W  
Max power: 300W  
Nominal resistance (Ohm): 4Ω  
Minimum resistance (Ohm): 3.0 Ω  
Mounting Depth: 76.2mm (3")  
Mounting diameter: 151mm (5.94")  
Sensitivity (1W/1m): 94dB (+/-3dB)  
Frequency range: 80-7kHz  
Cone material: Pressed Paper Fiber  
Suspension Material: Fabric  
Voice coil diameter: 38.5mm (1.5")  
Coil material: TIL/CCAW(C)  
Wire winding height: 10mm (0.39")  
Suspension Material: Fabric  
Magnet size: 130 x 45 x 20mm  
Magnet weight: 41 oz

### RMB8-4P

Type Midbass speaker  
Configuration: 1-way  
Size: 208mm (8.2")  
RMS power: 250W  
Max power: 500W  
Nominal resistance (Ohm): 4Ω  
Minimum resistance (Ohm): 3.0 Ω  
Mounting Depth: 85.7mm (3.37")  
Mounting diameter: 188.6mm (7.43")  
Sensitivity (1W/1m): 95dB (+/-3dB)  
Frequency range: 65-6kHz  
Cone material: Pressed Paper Fiber  
Suspension Material: Fabric  
Voice coil diameter: 38.5mm (1.5")  
Coil material: TIL/CCAW(U)  
Wire winding height: 10mm (0.39")  
Suspension Material: Fabric  
Magnet size: 130 x 45 x 20mm  
Magnet weight: 41 oz

## T/S PARAMETERS

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### RMB65-4P

Fs: 84 Hz  
Re: 3.0 Ω  
Qes: 0.36  
Qms: 4.55  
Qt: 0.34  
Vas: 10.4 L/0.37 FT<sup>3</sup>  
Sd: 141 cm<sup>2</sup>  
X max: 2.0 mm/ 0.079 in  
Mms: 9.5 g  
Bl: 6.5 T-m

### RMB8-4P

Fs: 70 Hz  
Re: 3.0 Ω  
Qes: 0.46  
Qms: 4.85  
Qt: 0.42  
Vas: 26.3 L/0.93 FT<sup>3</sup>  
Sd: 227 cm<sup>2</sup>  
X max: 2.0 mm/ 0.079 in  
Mms: 14.3 g  
Bl: 6.4 T-m



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