ESD10

Echo Edge Series
Ultra Shallow Dual 10" Subwoofer Enclosure

User Manual

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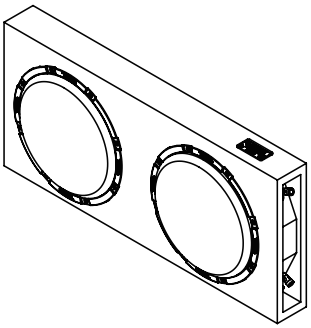
Ultra Shallow Dual 10" Subwoofer Enclosure ESD10

Thank you for purchasing the Recoil Echo Edge series preloaded subwoofers. These ultra-slim passive enclosures are engineered to deliver deep, accurate bass while taking up minimal space in your vehicle. Recoil is committed to designing high-quality audio products, and we are confident that adding this subwoofer will greatly enhance your listening enjoyment.

Please read this manual carefully before installation. If you have any questions, feel free to contact us at **support@recoilaudio.com**.

Enjoy your ride!

PACKAGE CONTENTS



ESD10 subwoofer enclosure x 1



Solid aluminum adjustable feet x4



Mounting Screws M5x14mm x4



User Manual x1

Important Safety Instructions (Read Before Use)

- Do not operate any function that distracts you from safe driving. Any task requiring prolonged attention must be performed only when the vehicle is completely stopped in a safe location. Failure to follow this may result in an accident.

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- While driving, keep the volume at a level that allows you to hear external sounds (e.g., emergency sirens, railway crossing signals, horns). Excessive volume can drown out these warnings, creating a dangerous situation that may lead to an accident.

- Listening at high volume for extended periods may cause permanent hearing damage. We recommend taking a 10-minute break after every 60 minutes of use, and keeping the volume at a comfortable level.

Usage and Maintenance

- Stop using the product immediately if you notice any abnormality (e.g., unusual noise, smoke, overheating). Continued use may cause personal injury or further damage. Return the unit to your authorised dealer or nearest service centre for inspection.

- Wiring and installation must be performed by qualified professionals. These tasks require specialised technical skills and experience. For safety, always contact the dealer where you purchased the product to arrange the work.

- Use only the specified accessory parts and install them securely. Using non-specified parts may cause internal damage or prevent the unit from being mounted securely.

- Route wiring so that it is not crimped or pinched by sharp metal edges. Do not run cables near seat rails or over sharp edges. If wiring must pass through a metal hole, use a rubber grommet to protect the wire from cutting.

- Do not install the unit in locations with excessive moisture or dust. Moisture or dust ingress may lead to product failure.

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Specifications

Parameter	Value
Woofer size	2 × 10" (ultra-shallow)
Cone material	Coated paper
Power handling (RMS / Max)	2 × 150W / 300W @ 2 Ω (per driver: 150W / 300W RMS/Max)
Frequency response	65 Hz – 400 Hz
Sensitivity (SPL @ 1W/1m)	80 dB
Internal volume	4.5 L
Enclosure material & thickness	18 mm MDF (front baffle)
Surface finish	Premium black carpet
Dimensions (W × D × H)	66 x 30 x 7 cm (without feet)
Net weight	9.7 kg

WOOFER T/S PARAMETERS (PER DRIVER)

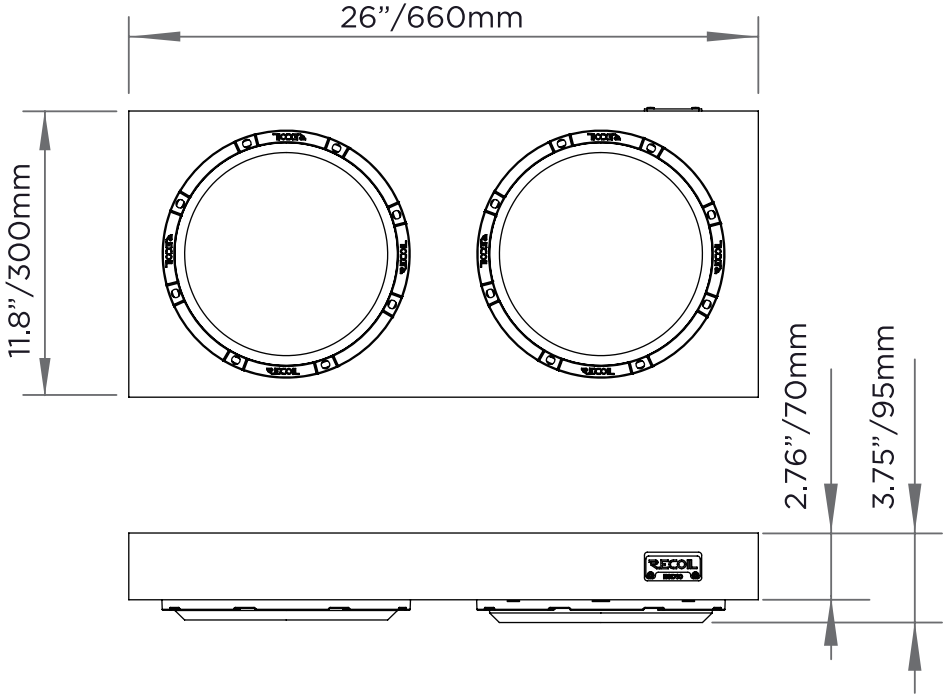
SPL	80 dB
RE	1.8Ω
Qms	3.9
Qes	0.82
Qts	0.68
Fs	34 Hz
Vas	13 L
Cms	0.08 mm/N
Mms	256.7 g
Sd	336 cm^2
BL	11.2 T·m
Xmax	6 mm

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Dimensions (Reference)

- Enclosure height (without feet): 2.76" / 70 mm
- Total thickness (including grille): 3.75" / 95 mm

Refer to the dimensional drawing in the product leaflet for exact hole locations.



Customizable Aluminum Feet – Flexible Mounting

Your ESD10 comes with four solid aluminium feet. Unlike fixed-feet designs, these feet can be screwed into any of the available mounting positions on the enclosure, allowing you to tailor the placement to your specific installation needs.

- Flat “pancake” placement (woofer side down) – Attach the feet to the same side as the woofer, at the four corners. This slightly elevates the grille, preventing muffling and ensuring clean, powerful bass transmission to the floor.

- Side or upright mounting – Move the feet to the side or rear mounting holes to protect the enclosure surface and provide proper clearance.

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Mounting Methods

- Method A – Flat “pancake” placement (woofer side down)

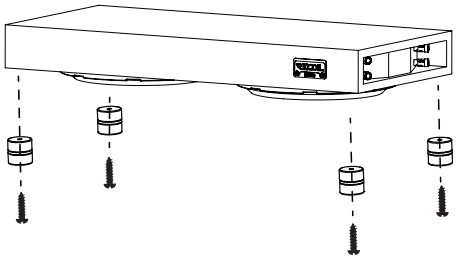
Attach the feet to the same side as the woofer, at the four corners. This slightly elevates the grille, preventing muffling and ensuring clean, powerful bass transmission to the floor. This method is recommended for maximum bass output.

- Method B – Side or upright mounting

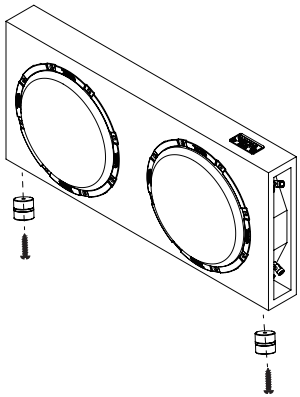
Move the feet to the side or rear mounting holes to protect the enclosure surface and provide proper clearance in tight spaces.

*No special tools are required – only a screwdriver to secure the feet after you have chosen the positions. You may test-fit the enclosure without fully tightening the screws to find the best orientation.

Method “A”



Method “B”



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Installation Steps

1. Choose a mounting location – Ensure the area is flat, dry, free of sharp objects, and does not interfere with driving operation or seat/trunk usage.

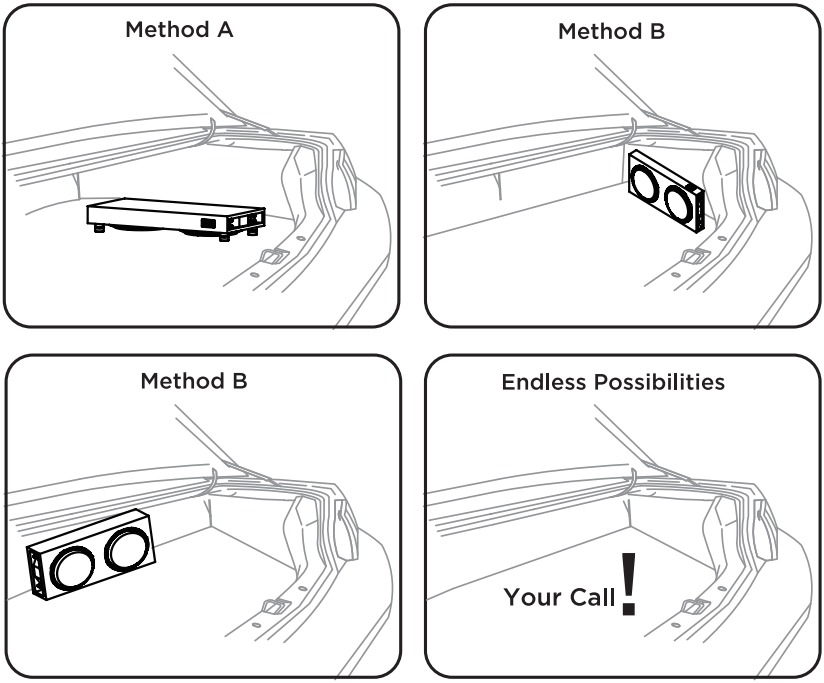
2. Attach the feet – Position each foot at your chosen corner, then drive the supplied self-tapping screws directly into the enclosure panel using a screwdriver. (The MDF material will accept the screws without pre-drilled holes.) Tighten firmly, but do not overtighten to avoid stripping.

3. Connect speaker wires – Connect the speaker output wires from your amplifier to the enclosure's input terminals (observe correct polarity: + to +, – to –).

4. Secure the enclosure – For vehicles with heavy vibration, use additional straps or brackets (not included) to fasten the enclosure.

5. Adjust settings – Power on the system. Set the amplifier's low-pass filter to approximately 65–100 Hz and adjust gain to avoid distortion.

Installation Diagram



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Troubleshooting

Symptom	Possible Cause	Solution
No sound	Wiring loose or amplifier off	Check connections and amplifier power
Distorted sound	Gain too high or insufficient amplifier power	Reduce gain, verify amplifier matching
Weak bass	Enclosure not coupled to floor; feet not raised	Use Method A, ensure feet lift the grille off the floor
Rattle or buzz	Loose screws or foreign object inside	Check all screws and clear the area around the enclosure

Warranty and Service

This product is covered by a 12-month limited warranty from the date of purchase (specific terms depend on your dealer's policy). Non-human-damage defects will be repaired free of charge. Please retain your proof of purchase.

For service, contact your original dealer or email **support@recoilaudio.com.**

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