

**\*\*\* 6.5" Fairing Adapter INSTALLATION INSTRUCTIONS \*\*\***

Dear Customer,

Thank you for purchasing your Engineered Adapters 6.5" fairing speaker adapters! We hope you will receive years of use and enjoyment. Note that proper installation is critical and all instructions should be followed. If you have feedback please send that to EngineeredAdapters@gmail.com. Website: EngineeredAdapters.com

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**Parts included in kit:**

- Four (4) 3D printed ABS speaker adapter rings that must be assembled
- Two (2) SHCS screws

**Tools you will need:**

- ¼" or 6mm hex key | #2 Phillips screwdriver | Long-nose pliers
- Any tools required by your specific speaker manufacturer's instructions

----- **CAUTION!!** -----

**\*\* This adapter is 3D printed ABS and requires special consideration when installing \*\***

*Sanding or filing of the brackets may be necessary for proper fit*

**\* DO NOT OVERTIGHTEN THE SCREWS \***

The adapters may be sanded for painting. Caution should be used – do not sand too much material

**We do not recommend drilling additional mounting holes**

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Originally designed for the Infinity mt612 the adapters have been developed to fit other speakers. Here are some examples of the speakers customers have fit without modification. Other models may fit. [See website for latest list.](#)

Infinity m612 | Polk MM651/MM6501 | Kicker 40CS654 | Rockford Fosgate RM0652B/RM1652B  
Kicker DS6.5 | MMats PS65CX | Alpine Type R

These speakers are known to be incompatible or require additional trimming:

- Polk 651s ("S" for slim but the bolt holes are different)
- MM651UM (requires trimming of the fairing and possibly the adapters – not reversible)
- Hertz HCX 165 (some trimming may be required)

## Installation for 2009-up Kawasaki Voyager and 2011-up Vaquero

**\*\* DO NOT OVERTIGHTEN THE SCREWS!!!** Doing so may result in stripping the thread material, delaminating the ABS material, or breakage.\*\*

- Remove two grille cover mounting screws with ¼" or 6mm hex key. Set aside for reuse.
- Lift the inside of the speaker grille and shift slightly inward to clear the tab at the outside edge of the grille  
Grille can be stored as it will not be reused
- Remove the speaker using the four Philips-head screws
  - o **CAUTION!!** The wire leads to the speakers are VERY short. Pull the speaker out just enough to disconnect the speaker leads then remove speaker
- Remove THREE of the four rubber threaded inserts that held the speaker. Leave the insert closest to the tab
- It is recommended to omit the speaker "cups" as most 6.5" speakers need more air volume

### Adapter Assembly

You have the latest design which has interlocking tabs making assembly of the speaker adapters easy! Simply align the puzzle-type interlocks and slide the pieces together until they are flush. That's it!



1) Determine the two adjacent parts.  
Two parts for the right, two for the left.

2) Align the interlocking tabs, making sure both tabs are aligned.  
The top tab is thicker and should be engaged first.



3) Slide the tabs together until fully seated.  
The top surfaces should be flush.  
Repeat for the other side.

**\*\* If you want to paint your adapters you can carefully sand them until you achieve the finish you need. We highly recommend sanding by hand so as not to remove too much material \*\***

## Installation for 2009-up Kawasaki Voyager and 2011-up Vaquero (con't)

Insert the tab of the speaker adapter into the notch and let it drop into the profiled pocket. If the adapter does not fit pay special attention to where the interference is taking place. Sanding or filing of the adapter may be necessary for a good fit. We suggest a sand-and-test-method to be sure you do not sand more than necessary. Most customers will not need to do this but it's always best to check!



Use the two OEM grille cover screws (or equivalent) to mount the adapter.

**DO NOT OVERTIGHTEN!!**

Note that the latest revision also now includes two (2) Socket Head Cap Screws (SHCS)! These are likely taped to the underside of the lip of the shipping box!

(M5x0.8x30mm if you misplaced them)

The rubber threaded insert you retained in the fairing will be utilized for this screw. Note that alignment is not perfect due to several design factors. Moving the insert slightly may be necessary to get the screw to align.

**DO NOT OVERTIGHTEN!!**



Your new speakers can be attached to the factory leads.

NOTE that the factory leads are very short and it may be necessary to use pliers or other method to attach. Alternately you could extend the factory speaker wire leads. Engineered Adapter's Vaquero Rear Wiring Kit can actually be used for this!

Use the screws that came with your factory speakers (or equivalent) to mount the speaker to the proper holes already in the adapter. See the included image for the screw pattern diagram.

**DO NOT OVERTIGHTEN THE SCREWS!!**



**Optional but recommended: Start bike and go for a ride and enjoy your new speakers!!** Thank you! – Randy



Infinity M612 5-bolt Pattern



Kenwood KFC-1653MRG

- Rockford Fosgate RM0652/RM1652
- Kicker 40CS654
- Polk Audio MM651/MM6501

This adapter is a universal fit and may fit other speaker models. If you find a model not listed here that fits (or doesn't fit) please let us know!)

