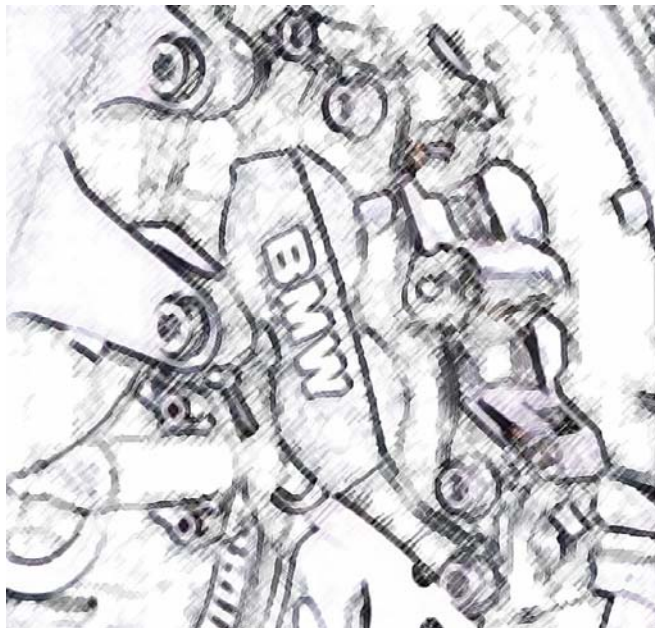


## **Replacing BMW R1100 OEM Brake Pads With Galfer Brake Pads**



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The author(s) have described how they made the parts/ tooling. The construction was based on their experience, knowledge, skills and available materials and tools. Our experience, knowledge and skills maybe and likely are different from any potential users of the information here. Users may not have the material and tools we had available. What was, or is, obvious to us and so not described, may not be apparent to potential users at all. Therefore, they/ we assume no liability for any damage or injury caused by any errors or omissions in this description. Please consult the OEM maintenance manual before doing any work. Use at your own risk.

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# Adding OEM Rattle Clips to Aftermarket Pads

BMW OEM brake pads come with anti-rattle clips installed, Galfer and EBC pads do not. I personally believe the Galfer pads offer better feedback and stopping, they are also substantially less expensive than OEM pads. The downside is that the noise created by the pads vibrating in the calipers without the clips is overwhelming, on my 1995 R1100RSL it sounded like a freight train. Installing the clips onto the aftermarket pads is very easy and should only take a few minutes. All you need to purchase is four semi-tubular rivets that can be found at most hardware stores for approximately .10¢ each.

## You will need the following:

Drill, 3/16" drill bit (anything close will do), hammer, 3/8" center punch, 1/4" pin punch, four semi-tubular rivets (1/8" diameter x 1/4" long).

*Note: Sears makes a 3/16" roll pin punch with a nice shape that works as well as the proper hand riveting tool for semi-tubular rivets.*

1. Drill out the back of the rivet. You only need to drill enough to remove the clinched part.
2. Carefully remove the old rivet and wire clip.



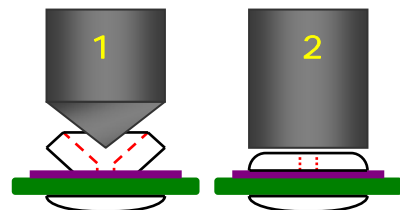
3. Insert the new rivet into wire clip and insert into pad.

*Note: EBC pads do not come with a hole pre-drilled for the installation of the clips. Use the old pad as a template and drill a 1/8" (.125") hole in the new pad backing plates.*

4. Place pad with rivet and clip on a piece of steel with the head of the rivet firmly resting on the steel.



5. First form the rivet with the center punch. All you need to do is get the rivet to start to roll over. This will allow you to get a well formed clinch without using the proper hand tool.



6. Complete clinching the rivet by using the pin punch. Make sure the rivet is evenly formed and that the clip is tight and will not rotate.



7. Ten minutes of work and your aftermarket pads will be just as quiet as OEM pads.

