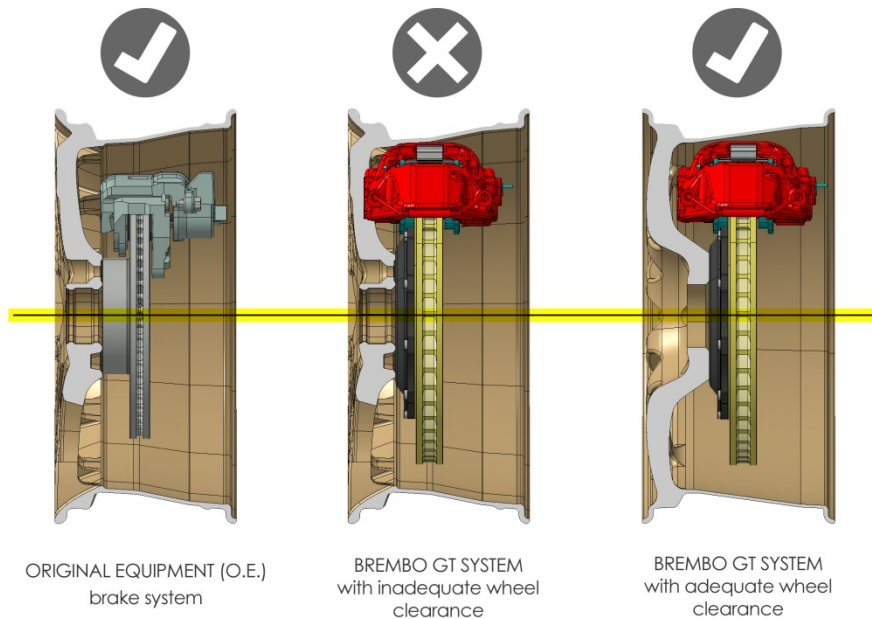


BRAKE CLEARANCE

BRAKE TO WHEEL CLEARANCE TUTORIAL

Before you buy, regardless of wheel size you must confirm brake system to wheel clearance before purchasing a Brembo Performance system.



These CAD drawings represent the clearance of an Original Equipment (left) brake system compared to a GT system with inadequate clearance (middle), and one with proper clearance (far right).

Brembo Performance brake systems are always designed to maximize wheel fitment. However larger components are often required to meet performance parameters determined by Brembo engineers, so it may be necessary to utilize a wheel spacer or to upgrade to an aftermarket wheel with adequate clearance. There are a number of variables that can affect wheel clearance including wheel diameter, wheel offset, and wheel design.

In order to determine if a wheel has adequate clearance, please follow the instructions below:

PRINTING THE TEMPLATE

- **STEP 1:** Look up your application (Year/Make/Model search).
- **STEP 2:** Select your brake system.
- **STEP 3:** Download or open the PDF document with "Wheel Clearance Information". Note: All Brembo GT/GT-R/GT-S systems have a specific corresponding wheel clearance diagram (brake profile cross section).

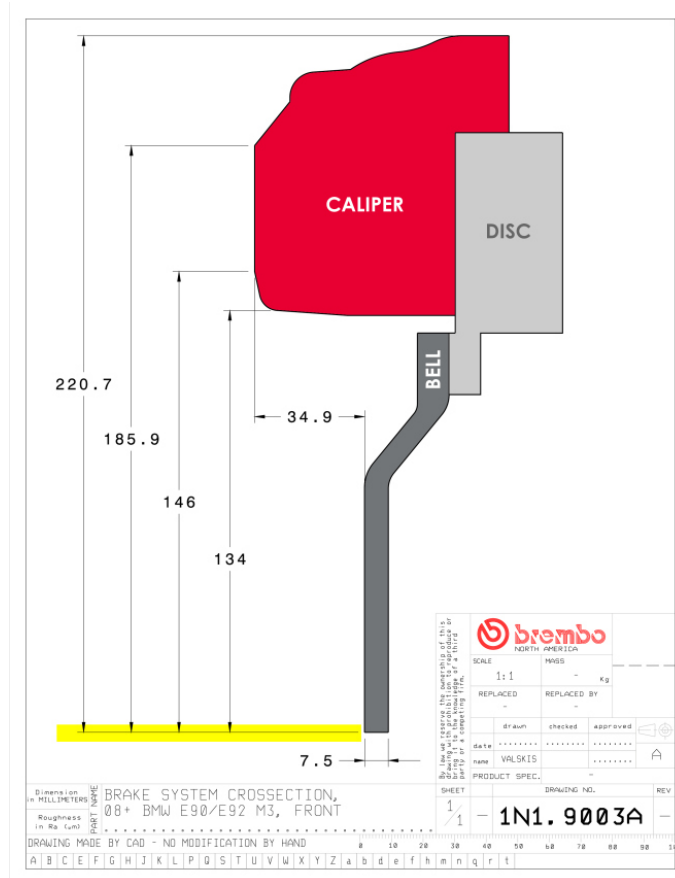
- **STEP 4:** Print out the document, but be sure to make sure you're printing at full scale (1:1 or at 100%). There's a ruler on the bottom right-hand side of the page to help confirm this.
- **STEP 5:** Cut out the shape of the template to include the caliper, bell, and the disc.
- **Optional:** You may want to back the cut-out with a piece of cardboard or foam core to make sure that the template is sturdy enough to get a proper gauge of your wheel clearance.

MEASURING YOUR WHEEL

- **STEP 1:** Remove a wheel.
- **STEP 2:** Place the wheel carefully on its face and measure out the A/B/C dimensions with a straight edge or create a template from the clearance diagram.
- **STEP 3:** If using a clearance diagram attached to tag board as a template, be sure to double check that the template retains the actual dimensions from the original diagram.
- **STEP 4:** Allow 3mm in all directions from the caliper to the wheel.
- **STEP 5:** If the caliper contacts the inner wheel spokes, a wheel spacer may be used to move the wheel out away from the caliper. When using spacers, we recommend only considering high quality hubcentric spacers (and longer wheel bolts/lugs when needed). It is also important to confirm that the wider track will allow the tire to clear the fenders in all positions.

EXAMPLE BELOW

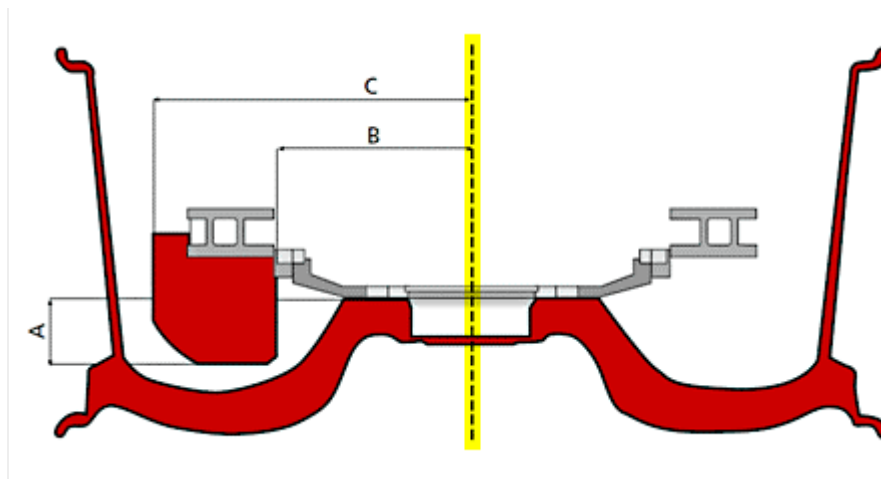
- We are using part #1n1.9003A (a 2013 BMW M3) for our example.



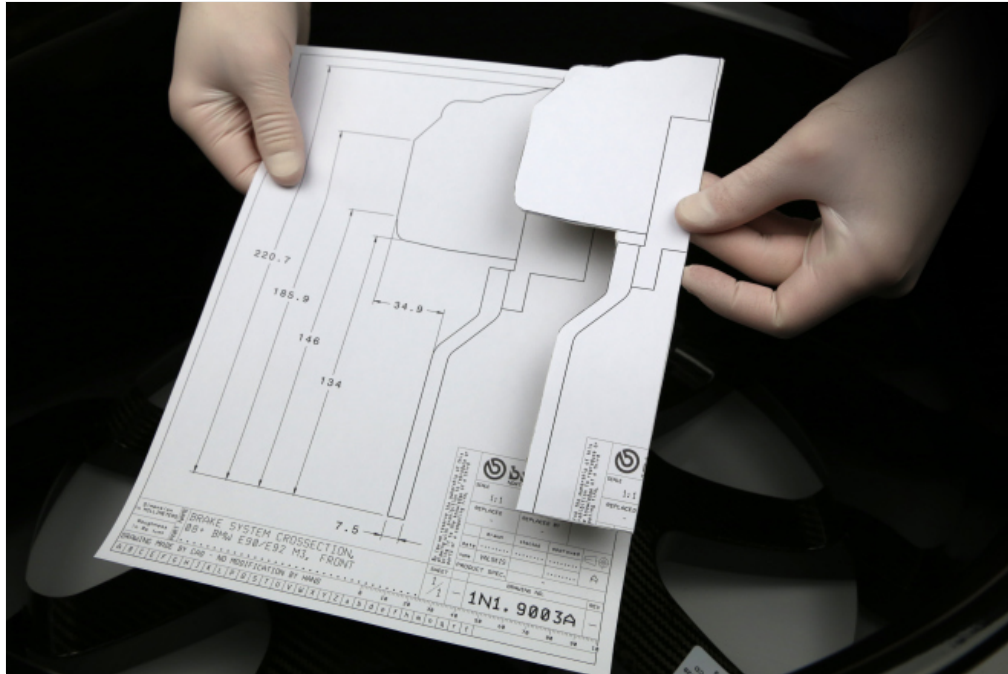
The kit number is shown on the lower right, and all measurements are shown in millimeters. The diagrams are shown at full scale, but once they have been printed these measurements must be confirmed before use. We colored in the CAD drawing to help make it easier to understand the brake assembly cross section. The red area represents the rotated profile of the caliper, the dark grey colored area is the bell, and the silver area is the disc.



The A dimension is 34.9mm The B dimension is 134mm The C dimension is 220.7mm



In this example, the clearance diagram has the center of the wheel marked with a yellow highlighter. If you rotate the previous diagram and set it into the wheel, it would look like the diagram above that includes a wheel cut-away. That same yellow line is represented by the dashed line below. The drawing above is a cut-away of a GT system inside of a wheel on its face. Using the dimensions from the sample clearance diagram above:



The diagrams are shown at full scale, but once they have been printed these measurements must be confirmed before use.



Place the cut-out inside the wheel well. If the cut-out is too flimsy, you may need to adhere it to a piece of cardboard to help with getting a proper gauge on your brake to wheel clearance.



Allow 3mm in all directions from the caliper to the wheel. Note: the imagery and highlighted areas is meant to be an approximation to help illustrate the tutorial.

All Brembo Performance systems are custom packaged to order, so they cannot be returned due to wheel fitment which is why it's very important to verify brake and wheel fitment before placing your order.