

ADHESIVE WEIGHT INSTALLATION

Proper Weight Selection:

For passenger car and light truck applications, it is suggested to always use a 5 gram or .25 oz. segmented adhesive weight. This allows for smaller increments and helps to eliminate bridging and clearance issues. For heavy duty trucks or larger assemblies on smaller vehicles, it is suggested to always use a 10 gram or .50 oz. segmented adhesive weight, and on extremely heavy duty applications you can use up to a 1.00 oz. or 2.00 oz. segmented adhesive weight. When using larger segment weights, height and width clearance is important to ensure that the weight fits the area properly and does not interfere with brake or suspension systems.

Surface Preparation:

It is important that the adhesive weight mounting surface area be free of dust, oil and other contaminants. Even some new rims are coated with paints, lacquers or silicone sprays that hinder the adhesion process. It is best to always clean every wheel prior to adhesive weight installation. The best cleaning solution is a 50/50 mix of isopropyl alcohol and water. This solution is usually sufficient for removing most contamination and it evaporates fairly quickly. A two rag system is suggested - one rag for spraying and cleaning and another rag for wiping and drying. The used rags should be replaced routinely. If oil or other heavy contaminants are present, a stronger solvent may be necessary. Please refer to the MSDS sheets of any cleaning solvent prior to use for proper procedure. It is not recommended that you use brake cleaners, engine cleaners, or petroleum-based degreasers as these products traditionally will leave a residue on the rim which harms adhesion.

Adhesion Promoters:

Adhesion promoters are primarily used when bonding to low surface energy materials that are hard to bond with. Promoters are to be applied per the manufacturer's instructions, but must be dried before the attachment tape is applied to the surface.

Temperature Range:

The recommended application temperature range is from 50° F to 125° F. Both the adhesive tape and the rim should be within this temperature range. In general, a higher application temperature increases adhesion build. In extreme low temperature situations, it is important to ensure that the rim is not sweating due to the warm air inside the garage, similar to a soda can just removed from the refrigerator. Heating up the rim with a heat gun or other tools can be done but use extreme caution as to not damage the rim during the heat build up process.



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Proper Application:

Once the imbalance point is located and the proper amount of segmented weights have been chosen, next remove the adhesive tape backing from the weight. Be sure to not contaminate the adhesive tape with dirt or oils once the backing has been removed. Place the exact center of the segmented adhesive weight at the point of imbalance. Next spread the weight out towards the ends with minimal hand pressure until both ends are in the proper location. Once the weight is in the proper location, go back to the center of the weight and apply appropriate pressure from the center outwards.

Appropriate Pressure:

All adhesive tapes used on wheel balance weights are pressure sensitive. For best results, adhesive weights should be applied using a roller which provides intimate contact of the tape's adhesive surface to the rim. If a roller is not present, then firm hand pressure from the middle of the weight working outwards is the suggested method. If the proper amount of pressure is not applied, this could lengthen the adhesion set up process and potentially cause the weight to fall off when the customer drives the vehicle away from the shop.

Final Fitment Check:

Once the weight has been properly applied and the appropriate amount of pressure has been applied, it is best to always check the weight to ensure it is properly adhered and that it is safe to place the assembly back on the vehicle. To check the fitment, simply grasp the weight from the sides with your fingers and give it a slight tug. If the weight remains in place with no movement than the set-up process has already begun.

Set-Up Time:

Upon application of the adhesive weight, the adhesive bond builds with time. After the initial bonding, care should be taken not to expose the newly bonded joint to excessive stresses. Generally, 30-35% of the ultimate bond strength is achieved upon initial stick, 50-60% bond strength is achieved within 20-minutes, 70-80% within 1-hour, and 80-90% after 24 hours (at 70° F degrees).



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**EXPERT'S
ADVICE**

The above instructions are general guidelines. Since WEGMANN automotive cannot anticipate or control every potential application, we recommend testing the product under individual application conditions prior to use. If there are questions or comments, please free to contact us by using our SERVICE FIRST™ Line.