VALVETRONIC DESIGNS

7 Rowell Road
Boyertown, PA 19512
(717) 220-8909

Catalytic Converter Break-In Procedure

A newly installed catalytic converter must be properly conditioned to allow the internal insulation mat to expand and seal correctly during the initial heat-up and cool down cycle. Skipping or improperly performing this process can lead to mat failure. Failure to properly follow the below steps will void Valvetronic Designs catalytic converter warranty.

Break-In Steps:

1. Once installation is completed and diagnostic monitors have been cleared, start the engine.
2. Allow the engine to idle for 5 minutes so it can warm up gradually. Do not increase RPM or operate the engine above idle during this time.
3. After 5 minutes, raise and hold engine speed at 2,000 RPM for 2 minutes.
4. Shut the engine off and allow the vehicle to cool for 10 minutes.

After this process, the catalytic converter matting will be fully seated and ready for normal operation.

OBDII I/M Readiness Drive Cycle Information

Many vehicle manufacturers require a specific driving sequence to fully reset the ECM/PCM and extinguish the malfunction indicator lamp (MIL). After installation is completed, monitors are reset, and the converter break-in has been performed, an OBDII readiness drive cycle may be necessary before emissions testing can be conducted.

OBDII system monitors only run their diagnostic checks when the vehicle is operated under specific load, speed, and temperature conditions, typically after the engine has reached normal operating temperature.

OBDII I/M Readiness Drive Cycle Procedure

- Begin with the engine completely cold.
- Start the vehicle and allow it to idle for at least 10 minutes or until normal operating temperature is reached.
- During this time, verify proper oxygen sensor activity and fuel trim operation.
- With the transmission in gear and the brake applied, hold the vehicle stationary for at least 1 minute to simulate a stop and go traffic load.
- Drive the vehicle, accelerating smoothly to 40 MPH using no more than quarter throttle. Maintain this speed for 1-2 minutes.
- Slow down to 35 MPH and maintain that speed for another 1–2 minutes.
- Continue decelerating to 25 MPH, then drive for at least 5 minutes while varying speed between 25 MPH and 45 MPH. Avoid wide open throttle throughout this process.
- Gradually accelerate to 55 MPH with steady throttle input and maintain this speed for 1-2 minutes.
- Return to the shop and allow the vehicle to cool completely to a cold state.

If a CEL is still present, repeat this drive cycle a second time to ensure all monitors have completed successfully.

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WARRANTY

All products manufactured by Valvetronic Designs are guaranteed to be free from manufacturing defects in materials and workmanship at the time of sale. A manufacturing defect is defined as any characteristic of the product that arises during the manufacturing process which impairs its usability for the purposes for which it was designed and manufactured. The products are guaranteed to fit and function as designed on their intended vehicle application, provided the vehicle has not been modified* or incurred structural damage. Sound or tone is not a warrantable or returnable issue. As the sound of a system is a subjective opinion, it is not a reason for return.

304 Stainless and Titanium exhaust tubes and welds carry a Lifetime of Ownership limited warranty against defects in workmanship or material, including penetrating rust. Mufflers and resonators carry a 3-year limited warranty against defects in workmanship or material, including penetrating rust. Discoloration due to heat, salt, brine or other road treatments are not covered by this warranty.

Valvetronic Designs warrants that the catalyst in this new aftermarket catalytic converter is free from defects in materials and workmanship that would cause the converter to fail to conform to the emission testing and OBDII system compatibility criteria specified by the EPA for a period of 25,000 miles from the date of installation, whichever occurs first. Valvetronic warrants the catalytic converter external shell, including end pipes, against corrosion and defective welding for five years or 50,000 miles from the date of installation, whichever occurs first. Vacuum Pots, Electronic Remotes, and Mechanical Valves are covered by a one-year limited warranty.

Electronics, including 12V vacuum pumps, RF modules and controllers, are covered by a one-year limited warranty.

Tip finish is covered by a one-year limited warranty. Discoloration or damage due to heat, chemicals, lack of maintenance, road salt, brine, other road treatments, or damage from road debris or misuse is not covered by this warranty.

Warranty term begins at purchase date and applies only to the original purchaser. At no time is the warranty transferable or assignable.

* Modifying the design or function by cutting, welding, or bending, or subjecting the product to abuse, misuse, mishandling or unauthorized repair voids all aspects of this warranty

What is Not Covered: Your Limited Warranty does not cover products or parts determined to have been damaged by or subjected to: (a.) installation damage, alteration, modification, combination with other parts including heat wrap, normal wear & tear, cosmetic damage or damage from moisture or water immersion, (c.) Acts of God, accidents, misuse, racing, negligence, inadequate mounting or impact with vehicle(s), obstacles or other aspects of the environment, (d.) theft, vandalism or other intentional damage.

Other Limitations - Exclusion of Damages - Your Rights Under State Law: In consideration of the purchase price paid, neither Valvetronic nor any independent Valvetronic distributor/licensee are responsible for any time loss, rental costs, or for any incidental, consequential, punitive or other damages you may have or incur in connection with any part or product purchased. Your exclusive remedy under the limited warranty for covered parts is repair/replacement as described above.

A limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state. This means that while the warranty outlines the specific obligations of the seller, it does not cover all possible claims or damages that could arise under state law. For example, a warranty may cover product replacement or a purchase price refund, but it typically does not cover labor costs or indirect damages. It is important to understand that the warranty's scope can differ based on state laws, so it is advisable to review the warranty terms carefully and consult legal resources if needed.

WARRANTY CLAIMS AND RETURN POLICY

All warranty claims and returns must be made through the original place of purchase.

If you remove, we cannot approve. If a product issue is discovered after installation, do not remove the product before receiving confirmation of a return approval from the original place of purchase. On-car information can often lead to diagnosis and action plans; Valvetronic Designs requires a chance to address in this manner. Post-install products removed prior to return authorization will be denied any warranty claim.

If a warranty claim is approved, Valvetronic Designs may repair, replace, or refund the product at its sole discretion.

If you purchased direct from Valvetronic Designs, initiate claims by emailing customerservice@valvetronic.com, or complete an RMA (Return Material Authorization) Form at the bottom of our website, www.valvetronic.com

Valvetronic Designs WILL NOT accept any return without an RMA number.

Valvetronic Designs will accept returns on new, unused, uninstalled, or defective items within 30 days of purchase if purchased through Valvetronic Designs directly. The product must have an RMA number and be in the original package. A 25% re-box/restock fee may apply. Used or installed products will not be accepted.

All non-warranty returns are subject to a 25% re-box/restock fee.

All warranty items determined to be non-eligible may be charged a 25% re-box/restock fee.

All returned items must have an RMA number clearly written on the outside of the package, and a copy of the original receipt must be included inside the package.

Return Shipping is the responsibility of the customer unless the product is determined to be a warrantable item, or we accidentally sent you the wrong part.

CATALYTIC CONVERTER LIMITED WARRANTY REGISTRATION

VEHICLE OWNER: Name

Street Address

City State ZIP

Vehicle Owner Signature

PURCHASED AT / INSTALLED BY: Name

Street Address

City State ZIP

VEHICLE INFORMATION: Vehicle Identification Number (VIN)

Year Make Model Engine Size Mileage Converter Part No.

Date Installed Customer Invoice Number

THIS FORM MUST BE COMPLETELY FILLED IN BY INSTALLER

CUSTOMER - RETAIN FOR YOUR RECORDS

IMPORTANT

THE FOLLOWING STATEMENT MUST BE READ AND SIGNED BY THE VEHICLE'S OWNER AND THE INSTALLER OF THE REPLACEMENT CATALYTIC CONVERTER.

Catalytic converters are emission control devices that are designed to last the life of the vehicle and do not normally require replacement. Furthermore, if the vehicle is properly used and maintained, original converters are covered by the emissions control warranty for at least seven years or 70,000 miles. Some vehicles are covered for longer periods. Consult the vehicle owner's manual for your specific coverage. Air quality laws prohibit repair businesses from replacing these devices except under certain limited circumstances.

In order to verify that the proper circumstances exist, the owner of the vehicle on which such repairs are made and a facility representative must sign the following statement:

"The vehicle is outside of the manufacturer's warranty and the catalytic converter required replacement because: _____
or the vehicle's catalytic converter was missing when vehicle arrived."

Vehicle Owner's Signature _____

Facility Representative's Signature _____

Date _____

The installer must retain this statement and a copy of the invoice for 4 years and the replacement converter. The replaced converter must be marked in such a way that it can be identified with the customer invoice and this statement must be available for inspections.

(Required for converters sold in the United States only)