

State of California  
AIR RESOURCES BOARD

**Application for Exemption of Aftermarket Turbochargers/Superchargers  
from Vehicle Code Sections 27156 and 38391**

I. Manufacturer of Turbocharger/Supercharger System

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone ( ) \_\_\_\_\_

Name of Authorized Representative: \_\_\_\_\_

Title: \_\_\_\_\_

II. Vehicle Application

If the Turbocharger/Supercharger is applicable for two or more engines or chassis models, you may use separate sheets to complete the information.

Make: \_\_\_\_\_ Model Years: \_\_\_\_\_

Engine Family: \_\_\_\_\_ No. Cylinders: \_\_\_\_\_

Fuel Induction System (No. of barrels, maximum air flow, type of fuel injection system, etc.)

\_\_\_\_\_  
\_\_\_\_\_

For heavy-duty vehicles and secondary vehicles such as motor homes, complete the following:

Primary Vehicle or Engine

Original Chassis or Engine

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Secondary Vehicle Manufacturer \_\_\_\_\_

Secondary Vehicle Model \_\_\_\_\_

Gross Vehicle Weight (lbs.) \_\_\_\_\_

Frontal Area \_\_\_\_\_

III. Test procedure (check one)

The test procedure to be used is:

\_\_\_\_\_ Cold Start CVS-75 Federal Test Procedure

\_\_\_\_\_ Cold 505

\_\_\_\_\_ Hot Start CVS-75 (applicable to some diesel-powered vehicles)

IV. Evaluation Criteria (check one)

This application is for certification to:

- Emission Standards
- Typical Baseline Emission Levels

V. Turbocharger/Supercharger System

Name of original (turbocharger/supercharger) manufacturer:

\_\_\_\_\_

Turbocharger/Supercharger Model No: \_\_\_\_\_

Manufacturer device name: \_\_\_\_\_

Type of turbine (e.g., axial flow, radial flow): \_\_\_\_\_

Area of throat: \_\_\_\_\_

Distance from centroid area of center of vortex: \_\_\_\_\_

Area Ratio (A/R) for turbine size: \_\_\_\_\_

Supercharger and Crankshaft Pulley size: \_\_\_\_\_

Max. Boost Pressure: \_\_\_\_\_

Please supply the turbocharger/supercharger engineering drawings and turbocharger/Supercharger kit, and complete installation instructions.

VI. Modification to OEM System

In the turbocharging process, you may have to modify certain OEM systems. Check the items that you will modify and explain the modification in detail.

- 1. Fuel induction system (this should include carburetor, fuel injection system, fuel pump, fuel filter and all pertinent calibrations and adjustments).
- 2. Air intake system such as air cleaners, air flow control sensors, heated air intake system, etc.
- 3. Intake manifold (please include any adapter or devices you plan to use to change fuel-air mixture vaporization).
- 4. Ignition system (i.e., distributor, vacuum and centrifugal timing mechanism, points, plugs and all specifications).
- 5. Exhaust system such as exhaust manifolds, head pipes, mufflers, etc.
- 6. Valve train components including valve clearance adjustments.

\_\_\_\_\_ 7. Others. (Specify).

VII. Modification to OEM Emission Control Systems

Please check the applicable items and explain the modifications in detail.

- \_\_\_\_\_ 1. EGR system (valve body, vacuum amplifier, vacuum signals, temperature control sensors, back pressure transducer, etc.).
- \_\_\_\_\_ 2. Catalytic converter, thermal reactor and fuel-air mixture feedback control.
- \_\_\_\_\_ 3. Air injection system (air pump, air injection port, by-pass valve, etc.).
- \_\_\_\_\_ 4. Spark control system.
- \_\_\_\_\_ 5. Positive crankcase ventilation system.
- \_\_\_\_\_ 6. Others (Specify)

VIII. The following information is required for the Air Resources Board (ARB) to complete an evaluation. Please place a check mark next to the items that are **enclosed** with the application and provide an explanation for items that are not checked.

- \_\_\_\_\_ 1. Copies of all advertising material to be used in selling devices including a sample or facsimile of the packaging label. (Optional)
- \_\_\_\_\_ 2. Detailed installation and/or maintenance instructions. This should include assembly drawings, parts list and full octane/cetane requirements
- \_\_\_\_\_ 3. A facsimile or prototype of the identification plate or label to be attached permanently to or imprinted on or near each device offered for sale. The plate or label should be placed such that it is visible after the device is installed, and should contain:
  - i) the manufactures name
  - ii) the device name and model number
  - iii) the Air Resources Board exemption number identified as  
ARB E.O. No. D-XXX.
- \_\_\_\_\_ 4. A facsimile or prototype engine compartment plate or label located adjacent to, but not covering, the vehicle manufacturers Vehicle Emission Control Information (tune-up) label. This plate or label is only required if a change is recommended to

California Environmental Protection Agency  
**AIR RESOURCES BOARD**  
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vehicle manufacturers tune-up parameters. In addition to the recommended tune-up parameter changes, the plate or label must contain the same information as the device label.

IX. The ARB may require one or more devices for testing. Do you agree to provide the device(s) free of costs? \_\_\_yes\_\_\_no. The device(s) will be returned only if return is requested at the time the device(s) are submitted.

Emission Statements

I affirm that to the best of my knowledge this turbocharger/supercharger shall not cause the emission into the ambient air of any noxious or toxic matter that is not emitted in the operation of such motor vehicle without such turbocharger/supercharger system.

I understand that an exemption, if granted, does not constitutes a certification, accreditation, approval, or any other type of endorsement by the Air Resources Board of any claims concerning alleged benefits of a device. I further understand that no claims of any kind concerning anti-pollution benefits may be made for an exempted device.

Signature of Authorized Representative: \_\_\_\_\_

Date: \_\_\_\_\_