

**RECOMMENDED APPLICATION FORMAT
ALTERNATIVE FUEL RETROFIT SYSTEM CERTIFICATION
2004 AND SUBSEQUENT MODEL ON-ROAD MOTOR VEHICLES AND ENGINES**

DRAFT

To expedite Air Resources Board's (ARB's) review, we recommend using the following standardized format for your applications for certification. While other formats may be acceptable, they may result in longer ARB review time. The references are the section numbers in the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for On-Road Motor Vehicles and Engines."

ARB approved test plan. [Ref. 3.]

- Include vehicles/engines approved for testing
- Include requests for exemptions as applicable.
 - Alternate mileage/hour accumulation cycle and duration. [Ref. 4. (a)(1)]
 - Alternate durability vehicle/engine procedure. [Ref. 4. (a)(2)]
 - For dual-fuel vehicles or engines, exemption from testing on original fuel of base vehicle or engine. [Ref. 5. (c)(2)]
 - Use of manufacturer derived deterioration factors. [Ref. 5. (c)(3)(C)]
 - Alternate test procedures. [Ref. 5. (c)(3)(D)]

Product Specifications – description of gaseous fuel lockoff valve. [Ref. 3. (a)]

Drivability Statement. [Ref. 3. (b)]

On-Board Diagnostics II (OBD II) Compatibility, ARB OBD II approval letter. The full OBD II documentation is submitted under separate cover. [Ref. 3. (c)]

Statement of Non-Adjustable Emissions Related Parameters, Tamper Resistance Methods. [Ref. 3. (d)]

Retrofit System Supplemental Emission Control Label: [Ref. 3. (e)]

- Label format:
 - Vehicle or engine model year.
 - California emission standard.
 - Retrofit manufacturer's name, address, telephone number, and company logo if applicable.
 - ARB EO number.
 - Installer's name, address, and telephone number.
 - Date and mileage of retrofit system installation.
 - Date and mileage of retrofit system warranty expiration.
 - List of parts added or removed during retrofit system installation.
 - List of changes to tune-up specifications.
 - Statement that the vehicle or engine has been modified to operate on a fuel other than gasoline or diesel. List the alternative fuel.
 - Unconditional statement of compliance with California emissions regulations.
- Label location.

Owner's Manual. [Ref. 3. (f)]

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- A brief description of the alternative fuel system.
- Refueling procedure.
- List of service items, service intervals, and tune-up data, which differs from the original manufacturer's vehicle or engine.
- Name, address, phone number, and website of the manufacturer and installer.
- Names, addresses, and telephone numbers of major dealers in California who supply parts for, or service, the alternative fuel retrofit system.
- Warranty information.

Warranty Information: [Ref. 3. (f)(5) and (g), and Ref. 9.]

- Manufacturer's Warranty:
 - Coverage: diagnosis, repair, or replacement, labor, parts.
 - Warranty Period: the longer of
 - 3 years or 50,000 miles, whichever occurs first, or
 - Remaining original emission-related equipment manufacturer warranty period.
 - Extended warranty for high cost parts.
 - 7 years or 70,000 miles, whichever occurs first.
 - Identify the high cost parts.
- Installer's Warranty:
 - Warranted for correct installation.
 - Warranted against retrofit system causing damage to vehicle or engine.
 - Warranty is transferrable to subsequent owners.
 - Coverage: 3 years or 50,000 miles, whichever occurs first.
- Warranty Notification. The warranty must include notification to the ultimate purchaser stating that installation of the alternative fuel retrofit system may affect the original equipment manufacturer's warranty. [Ref. 3. (g)]

Request for Certification -- Application. [Ref. 7. (a) and (b)]

- Identification of test group or engine family for which the alternative fuel retrofit system to be certified is designed.
- Complete description of the alternative fuel retrofit system.
 - Schematics.
 - Wiring diagrams.
 - Parts list.
 - Explanation of how the alternative fuel retrofit system interacts with or integrates into the base vehicle or base engine.
 - All necessary modifications to the base vehicle or base engine.
(Description of modifications to the OBD II system is submitted under separate cover.)
 - Supplemental Emission Control Label. See Ref. 3. (e) above.
 - Owner's manual. See Ref. 3. (f) above.

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- Warranty: statements, warranted parts list, and warranty notifications. See . Ref. 3. (f)(5) and (g), and Ref.9. above.
- Procedure for installing and maintaining the alternative fuel retrofit system.
- Names and address of installers.
- Names and address of fabrication, assembly line, and test facilities where the alternative fuel retrofit system and its major components are manufactured and tested.
- Agreement to supply ARB within 45 calendar days of Executive Officer's request, with any one or more of the vehicles used for certification testing or to provide ARB personnel with the equipment to inspect and test such vehicles at the manufacturer's facility, if requested by the Executive Officer.
- Required Emission Test Data.
 - Durability Data or Assigned DFs
 - Certification Emission Levels
 - May include:
 - Laboratory reports.
 - U.S. EPA's Verify data entry forms.
 - If ARB's E-Cert information is available from a manufacturer's new vehicle/engine application, a printed copy of the data and information may be included here.
- Carry-Over and Carry-Across.

Include justifications for carrying over or carrying across durability data or emission data from one application to another. [Ref. 11. (b)]
- For a manufacturer planning to obtain ARB certification of alternative fuel retrofit systems for the first time, a "Letter of Intent" providing general information on the manufacturer's product offering and contact information should be submitted ahead of any applications for certification. [Ref. 7.(c)]
 - Base vehicle test groups and vehicle classes.
 - Base engine families and engine weight classes.
 - Persons authorized to sign documents for submittal to ARB.
 - Persons authorized to submit signed documents to ARB.
 - Persons authorized to communicate with ARB staff during the certification review process.
 - Submit "Letter of Intent" to:

Chief
Mobile Source Operations Division
California Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, CA 91731
ATTN: Alternative Fuel Retrofit System Certification