

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER B-20-1
Relating to Accreditation as an Emission control
Device Sold on a Non-Mandatory Basis

NEUTRONICS ENTERPRISES, INC.
MICRO-CONTROLLER FEEDBACK CONTROL SYSTEM

Whereas, section 43630 of the Health and Safety Code authorizes the Air Resources Board (the "Board") to establish standards for accrediting devices which substantially reduce motor vehicle exhaust emission, and to accredit devices which meet these standards;

Whereas, in section 2010, Title 13, California Code of Regulations ("CCR") and the incorporated "California Exhaust Emission Criteria and Test Procedures for Accrediting Emission Control Devices Sold on a Non-Mandatory Bases," the Board has established such standards and test procedures for determining compliance with them;

Whereas, Neutronics Enterprises, Inc., of 11421 W. Bernardo Court, San Diego, California 92127 has applied for accreditation of its Micro-controller feedback control system, pursuant to section 43630 and section 2010, Title 13, CCR;

Whereas, pursuant to the authority vested in the undersigned by California Health and Safety Code Section 39516, the Air Resources Board (ARB) finds:

1. The Micro-controller feedback control system is a device designed to replace the original oxidation catalytic converter with a closed-loop three-way catalytic converter. The vehicle's fuel mixture is monitored and maintained close to stoichiometric by leaning the fuel mixture when rich. The system consists of a KAT 200 computer manufactured by Neutronics, an oxygen sensor (P/N AFS17P for heated O₂ and P/N 25105901 for unheated O₂) manufactured by AC Delco, a linear actuated stepper motor valve (P/N C92128) manufactured by Air Packs, a wiring harness and a three-way aftermarket catalytic converter, with provisions for air for those vehicles with air injection, (P/N R2100 and R9200 see attachment A for converter application) manufactured by Car Sound.
2. The Micro-controller feedback control system satisfies the test requirements and meets the standards established for accreditation by achieving at least a 20 percent reduction in emissions of hydrocarbons and oxides of nitrogen with no increase in carbon monoxide. This finding is based on exhaust emission data derived from six test vehicles.
3. The exhaust emission reductions discussed in the staff report reflect the levels typical for the model, age and mileage of the test vehicles. NOTE: A sample of six vehicles may not be adequate to represent the emission reductions that could be achieved if the Micro-controller feedback control system is installed on a fleet of vehicles.

4. The applicant submitted durability data for its Micro-Controller feedback control system. Durability and emission performance of the system at 30,000 miles were based on durability test data of a 1979 Chevrolet El Camino equipped with a 5.0L engine, a 1979 Volkswagen Scirocco equipped with a 1.6L engine and a 1975 Datsun B710 equipped with a 2.0L engine.
5. The ARB in the exercise of technical judgement concludes that the Micro-controller feedback control system will not cause substantial emission reductions on lean-burn vehicles.

IT IS ORDERED AND RESOLVED: That Neutronic's Enterprises, Inc.'s Micro-controller feedback control system, consisting of a KAT 200 computer, a Car Sound aftermarket catalytic converter, an oxygen sensor, a wiring harness and an air valve, is hereby accredited as an emission-control device sold on a non-mandatory basis pursuant to section 43630 of the Health and Safety Code. The Micro-controller feedback control system shall be applicable for gasoline vehicles equipped with an open-loop oxidation catalytic converter system. This accreditation is subject to the following conditions:

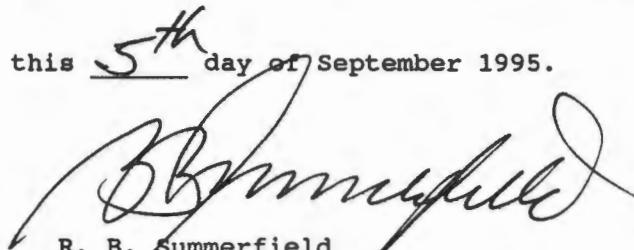
1. The following information shall be provided with the sale of each device: Instructions for maintaining the Micro-controller feedback control system in proper working condition. Because no vehicle in the application class is currently covered by an emission control system warranty required to be provided by the vehicle manufacturer, the requirement to provide notice that installation of the device may invalidate the vehicle emission control system warranty is waived.
2. This accreditation does not authorize the alteration or modification of emission control devices required by law or regulation, except what has been specified by the installation instructions. No changes to the tuning specifications is permitted other than what the manufacturer has specified in the installation instructions.
3. No changes are permitted to the system as described in the staff report. Any changes to the system applicable model year, or other factors addressed in this Executive Order must be evaluated and approved by the ARB prior to marketing in California.
4. Marketing of this system using an identification other than that shown in this Executive Order or marketing of this system for an application other than those listed in the Executive Order shall be prohibited unless prior approval is obtained from the ARB. Accreditation of this product shall not be construed as an accreditation to sell, offer for sale, or advertise any component of the Micro-controller feedback control system as an individual device.

5. NOTE: By granting the accreditation, the ARB has not determined the potential emission reduction levels that could be achieved from the use of the Micro-controller feedback control system for the purpose of calculating emission credits for any purpose. Use of the device for emission credits will require testing of a larger vehicle sample size to determine the emission reductions representative of the vehicle fleet.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held with ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executive Order No. B-20 dated September 19, 1991, is hereby superseded and of no further force and effect.

Executed at El Monte, California, this 5th day of September 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

EXHIBIT A

CATALYTIC CONVERTER PART NUMBERS

Neutronics Enterprises, Inc. Micro-Controller Retrofit System

Converter Series*	OEM Configuration	Curb Weight	Engine Size
R9200	Underbody**	≥4000 lbs.	≥4.0L
	Dual Underbody		≥6.5L use 2
R2100	Underbody**	<4000 lbs.	<4.0L
	Dual Underbody	<5000 lbs.	<6.5L use 2

* Individual part numbers describe pipe diameters.

** Remove OEM precatlyst if any.