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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-5 Relating to Certification of New Motor Vehicles

GFI CONTROL SYSTEMS, INC.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That GFI Control Systems, Inc. 1997 model-year exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Dual-Fuel Compressed Natural Gas (CNG) or Gasoline

Engine Family: VG92.0VJG2EK <u>Displacement</u>: 2.0 Liters (121 Cubic Inches)

Emission Control Systems & Special Features:

Three Way Catalytic Converter Heated Oxygen Sensors (two) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are: (The standards in parentheses are for gasoline.)

<u>Miles</u>	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.125 (0.25)	3.4 (3.4)	0.4 (0.4)	0.015 (0.015)	n/a (10.0)
100,000	0.156 (0.31)	4.2 (4.2)	0.6 (0.6)	0.018 (0.018)	n/a

The CNG certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a reactivity adjustment factor (RAF) for CNG-fueled passenger car TLEVs, and the addition of the product of the methane exhaust emission value and a RAF for methane emission of CNG-fueled passenger car TLEVs.

Reactivity Adjustment Factor for NMOG Mass Emission: 1.00

Reactivity Adjustment Factor for Methane Mass Emission: 0.0043

The certification exhaust emission values for this engine family in grams per mile are: (The values in parentheses are for gasoline.)

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>	
50,000	0.068 (0.10)	2.7 (1.5)	0.4 (0.1)	0.013 (0.001)	n/a (5.3)	
100,000	0.077 (0.12)	3.7 (2.0)	0.5 (0.2)	0.014 (0.001)	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles" pursuant to provisions in the said standards and test procedures applicable to small-volume manufacturers.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations,

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

R. B. Summerfiel

Assistant Division Chief Mobile Source Division

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

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Exh Std: Veh Class Single Ce Exh Cert I Fuel Type(Hybrid: Ty Engine Con Engine: Fr	Tier-0Tier-1_ (es): PC_yLDT rt Std for Multi-C Fuel(s): Indoy	TLEV_ TLEV_ 1 LI lass Eng Ph2 CNGX Flex-Fue _ LPG APU Cy Displac Rear	IS INC ith R/L X LEV DT2 Fam: N/ Diesel: LPG cle (e.g. ement:	Exh Eva ULE MDV1 A. (spe 13 CCR Other (al-Fuel (specify , Otto,	Engine Fami p Engine Fami V ZEV MDV2 ecify: N/A, [2282 or 4 (specify) Ga Diesel, Turi	ly: VG920VJC ily: VFM1045 _; EPA Tier- MDV3 MD LDT1, MDV1, M1 10 CFR 86.113 soline_v Di bine)	AYPAB O Tier-1_ V4 MDV5_ DV2, MDV3, MDV1 -90 or -94_ Lesel M85_	4)
Engine Code	Vehicle Models	Trans.		(use ab	Direviacions	per SAE J193(T	_
(CA/49ST /50ST		A-Auto M-Man.	ļ		(ECM/PCM) Part No.	System	Catalytic Converter Part No.	
7-04N	Contour P.C.	A	3500	6.3	V9-160	948FBA	94BBFK	
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Date Issued: 3/22/195

Revisions:____