State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-7-1
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 1998 model-year GFI Control Systems, Inc. exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Dual-Fuel Liquefied Petroleum Gas (LPG) or Gasoline (Indolene)

Engine Family: WG9XA05.46BF Displacement: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters (two)
Dual 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 non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are: (The standards in parentheses are for gasoline.)

Test Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
5751-8500	50,000	0.195 (0.39)	5.0 (5.0)	0.6 (0.6)	0.022 (0.022)	12.5 (12.5)
	120,000	0.280 (0.56)	7.3 (7.3)	0.9 (0.9)	0.032 (0.032)	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.50 (LPG)
1.00 (Indolene)

The certification exhaust emission values set forth for NMOG reflect application of a 0.50 or 1.00 RAF for 1998 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are: (The values in parentheses are for gasoline.)

Test Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
5751-8500	50,000	0.039 (0.11)	2.8 (1.6)	0.3 (0.1)	0.001 (0.001)	6.7 (4.0)
	120,000	0.045 (0.12)	3.3 (1.7)	0.4 (0.1)	0.001 (0.001)	n/a

BE IT FURTHER RESOLVED: That the manufacturer shall not be subject to the phase-in requirement as specified in Title 13, California Code of Regulations, Section 1960.1(h)(2) Endnote (10)(d) applicable to small-volume manufacturers of medium-duty vehicles.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent 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 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 and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 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.

Executive Order A-325-7 dated November 4, 1997 is superseded and replaced by Executive Order A-325-7-1.

Executed at El Monte, California this 14th day of January 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

EO# A-325-7-1

Air Resources Board Supplemental Data Sheet
Passenger Cars, Light Duty Trucks and Medium Duty Vehicles
Model Year 1998

Manufacturer: GFI CONTROL SYSTEMS INC. Exh Eng Fam: WG9XA05.46BF Evap Fam: WFMXE0160BAF

All Engine Codes in Engine Family: CA ___ 49s___ 50s_X_ AB965 _____, ORVR: Yes ___ No_X_

Exh Std: CA Tier-1 TLEV___LEV_X_ULEV___SULEV___, US EPA Tier-1_____

Veh Class(es): PC___LDT1___ LDT2___ MDV1___MDV2___MDV3_X_MDV4___MDV5_____

Single Cert Standard for Multi-Class Eng Family: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Fuel Type(s): Dedicated___Flex Fuel___Dual Fuel_X_Bi-Fuel___Gasoline_X_Diesel___

CNG___LNG___LPG_X_M85___ Other (specify)_____

Exh Emiss Test Fuel(s): Indo_X_CBG___CNG___LPG_X_ M85___Other (specify)_____

Diesel: 13 CCR 2282___ 40 CFR 86.113-90___ 40 CFR 86.113-90_____

Evaporative Emissions Test Procedure: California___ Federal_X_

Service Accum: Std AMA___ Mod AMA___ Mfr ADP_X_ Other (specify)_____

NMOG Test Procedure: N/A___ Std_X_ Equiv___ R/L Test Proc: SHED_X_ Pt Source___

Engine Configuration: V8 Displacement: 5.4 Liters 326 Cubic Inches

Valves Per Cylinder: 2 Rated HP: 235 @ 4250 RPM

Engine: Front_X_Mid___Rear___ Drive: FWD___RWD_X_4WD-FT___4WD-PT___

Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC (2), 2HO2S(2), EGR, SFI

(use abbreviations per SAE J1930 Jun93)

Engine Code (also list CA/49st/50st)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
MAAF1/ 8-46G GF1024F3 MILSTN22.F3	F-150 / F-250 2wd & 4wd PickUp	A4	6875 lbm	16.2hp	F85F-12A650 A2-503 K1-122	F75E-9D475-CA	F85A-5E218-CB F85A-5E218-DB F85A-5G218-EB F85A-5G218-DB

Drafted 26/06/96 6:09 PM
Revised 01/10/97 10:55 PM
Printed 01/10/97 11:04 PM

D:\PROJECTS\CARBCERT\1998\98 F MDV2 LPG CARB LEV Application.doc