State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-25
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 2000 model-year GFI Control Systems, Inc. exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Ultra-Low-Emission Vehicle (ULEV)

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

Engine Family: YG9XT05.45NN Displacement: 5.4 Liters (331 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters (two)
Three Way Catalytic Converter
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) ULEV 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)
3751-5750	50,000	0.100 (0.160)	4.4 (4.4)	0.4 (0.4)	0.009 (0.009)	n/a (12.5)
	120,000	0.143 (0.230)	6.4 (6.4)	0.6 (0.6)	0.013 (0.013)	n/a

The CNG certification exhaust emission values set forth for NMOG reflect application of a reactivity adjustment factor (RAF) for CNG-fueled medium-duty ULEVs, and the addition of the product of the methane exhaust emission value and a RAF for methane emission of CNG-fueled medium-duty ULEVs.

Reactivity Adjustment Factor for NMOG Mass Emission: 0.43

Reactivity Adjustment Factor for Methane Mass Emission: 0.0047

The 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)
3751-5750	50,000	0.027 (0.099)	1.2 (1.0)	0.04 (0.1)	0.0000 (0.0000)	n/a (4.3)
	120,000	0.030 (0.138)	1.4 (1.6)	0.05 (0.3)	0.0004 (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 1995-2005 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978-2000 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 1988-2000 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 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.

Executed at El Monte, California this 28th day of February 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division

ED# A-325-25

Air Resources Board Supplemental Data Sheet
Passenger Cars, Light Duty Trucks and Medium Duty Vehicles
Model Year 2000

Manufacturer: GFI CONTROL SYSTEMS INC. Exh Eng Fam: YG9XT05.45NN Evap Fam: YG9XE0155BAG

All Engine Codes in Engine Family: CA X 49s__ 50s____ AB965 _____, ORVR: ~~same as OEM~~ No

Exh Std: CA Tier-1___TLEV___LEV___ULEV__X__SULEV___, US EPA ____

Veh Class(es): PC___LDT1___ LDT2___ MDV1___MDV2__X__MDV3___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_____ Exh In-Use Std: Intermediate

CNG__X__LNG___LPG___M85____ Other (specify)_____

Exh Emiss Test Fuel(s): Indo__X__CBG___CNG__X__LPG___M85___Other (specify)_____

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

Evaporative Emissions Test Procedure: California_____ Federal__X__ Gas: c/o Ford

Service Accum: Std AMA____ Mod AMA___ Mfr ADP___ Other (specify) CNG: Assigned dfs

NMOG Test Procedure: N/A____ Std__X__ Equiv____ R/L Test Proc: SHED__X__ Pt Source_____

Engine Configuration: V-8 Displacement: 5.4 Liters 331 Cubic Inches

Valves Per Cylinder: 2 Rated HP 205 @ 4250 RPM

Engine: Front__X__Mid_____Rear_____ Drive: FWD____RWD__X__4WD-FT___4WD-PT__X__

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

(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.
0F51410-B00 Calibration: 2KFCNG01.F4	F-150 (2WD)	A4	5750 lbs.	16.9	YL3F-12A650-ARA (gasoline) V31-100 (CNG)	XL3E-9D475-CA	YL3C-5G218-GA YL3C-5E214-GA A3-145
0F51410-B00 Calibration: 2KFCNG01.F4	F-150 (4WD)	A4	5750 lbs.	16.9	YL3F-12A650-ARA (gasoline) V31-100 (CNG)	XL3E-9D475-CA	YL3C-5G218-GA YL3C-5E214-GA A3-145