State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-26
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: YG9XT05.46NN 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)
5751-8500	50,000	0.117 (0.195)	5.0 (5.0)	0.6 (0.6)	0.011 (0.011)	n/a (12.5)
	120,000	0.167 (0.280)	7.3 (7.3)	0.9 (0.9)	0.016 (0.016)	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)
5751-8500	50,000	0.006 (0.114)	2.0 (1.2)	0.1 (0.3)	0.0004 (0.001)	n/a (4.3)
	120,000	0.006 (0.153)	2.3 (1.7)	0.1 (0.4)	0.001 (0.002)	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

EO# A-325-26

Air Resources Board ~~Certification Review~~ SUPPLEMENTAL DATA Sheet
Passenger Cars, Light Duty Trucks and Medium Duty Vehicles
Model Year 2000

Manufacturer: GFI CONTROL SYSTEMS INC. Exh Eng Fam: YG9XT05.46NN Evap Fam: YG9XE0155BAF

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 _____ Exh In-Use Standards: Intermediate

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 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

Service Accum: Std AMA ___ Mod AMA ___ Mfr ADP ___ Other (specify) Gas: c/o from Ford 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, 2TWC(2), TWC

(use abbreviations per SAE J1930 Jun93)

Engine Code (also list CA/49/50st)	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.
0F51420-B00 Calibration: 2KFCNG01.F4	F-150 (2WD)	A4	6875 lbs.	16.2	YL3F-12A650-ASA (gasoline) V31-100 (CNG)	XL3E-9D475-CA	YL3C-5G218-GA YL3C-5E214-GA A3-145
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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___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 X LNG____LPG____M85____ Other (specify)_____

Exh In-Use Stnds: Intermediate

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

Service Accum: Std AMA____ Mod AMA___ Mfr ADP____ Other (specify) Gas: C/O from FORD 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

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