State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-27
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 Liquid Propane Gas (LPG) or Gasoline (Indolene)

Engine Family: YG9XT05.45NP 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)	12.5 (12.5)
	120,000	0.143 (0.230)	6.4 (6.4)	0.6 (0.6)	0.013 (0.013)	n/a

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

The certification exhaust emission values set forth for NMOG reflect application of a reactivity adjustment factor (RAF) as listed above for 2000 model-year LPG-fueled ULEVs. The ULEV 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	0.036 (0.083)	0.5 (0.8)	0.05 (0.2)	0.0000 (0.0004)	1.1 (4.9)
	120,000	0.040 (0.122)	0.6 (1.4)	0.1 (0.3)	0.0000 (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

E.O. # A-325-27

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: YG9XT05.45NP Evap Fam: YG9XE0155BAG

All Engine Codes in Engine Family: CA X 49s__ 50s X AB965 _____ ORVR: No

Exh Std: CA Tier-1 TLEV____ LEV____ ULEV X SULEV____ US EPA Tier-1_____

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_____

CNG____ LNG____ LPG X 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) LPG: Assigned, Gas: c/o from OEM

NMOG Test Procedure: N/A____ Std X Equiv____ R/L Test Proc: SHED X Pt Source_____

Engine Configuration: V8 Displacement: 5.4 Liters 331 Cubic Inches

Valves Per Cylinder: 2 Rated HP 195 @ 4250 RPM

Engine: Front X Mid____ Rear____ Drive: FWD____ RWD X 4WD-FT____ 4WD-PT____

Exhaust ECS (e.g., MFI, EGR, TC, CAC): SFI, EGR, 2HO2S(2), 2TWC(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 2KFLPG01.F4C	F-150 PickUp 2WD	A4	5750 lbs	16.9hp	YL3F-12A650-ARA (gasoline) V32-100 (LPG)	XL3E-9D475-CA	YL3C-5G218-GA YL3C-5E214-GA A3-145
0F51410-B00 Calibration 2KFLPG01.F4C	F-150 PickUp 4WD	A4	5750 lbs.	16.9hp	YL3F-12A650-ARA (gasoline) V32-100 (LPG)	XL3E-9D475-CA	YL3C-5G218-GA YL3C-5E214-GA A3-145