

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-2
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. 1996 model-year exhaust emission control systems are certified as described below for medium-duty vehicles:

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

Engine Family: TG94.968GFJA Displacement: 4.9 Liters (300 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Three Way Catalytic Converter
- Oxidation Catalytic Converter
- Heated Oxygen Sensors (two)
- Exhaust Gas Recirculation
- Secondary Air Injection
- 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:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
5751-8500	50,000	0.39	5.0	1.1	12.5
	120,000	0.56	7.3	1.53	n/a

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

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
5751-8500	50,000	0.36 (0.28)	3.8 (1.7)	0.6 (0.4)	(3.9)
	120,000	0.43 (0.34)	4.8 (2.1)	0.78 (0.49)	n/a

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 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 "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 1st day of February 1996.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

199 6 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: GFI Control Systems, Inc. Exh Eng Fam: TG94.968GFJA Evap Fam: TFM1045AYMBB
 All Eng Codes in Eng Fam: CA 49S 50S x AB965
 Exh Std: CA Tier-1 x TLEV LEV ULEV ZEV ; US EPA Tier-1 x
 Evap Std: 50K x Useful Life with R/L In-Use Exh Std: Full In Use Alt In Use x
 Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 MDV3 x MDV4 MDV5
 Single Cert Std for Multi-Class Eng Fam: (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)
 Emiss Test Fuel(s): Indo x Ph2 CNG x LPG M85 Other (specify)
 Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94
 Service Accum: Std AMA Mod AMA Mfr ADP Other (specify) Mfr.'s Assigned DFs
 NMOG Test Procedure: N/A x Std Equiv R/L Test Proc: SHED Pt Source
 Hybrid: Type A B C , APU Cycle (e.g., Otto, Diesel, Turbine): n/a
 Engine Configuration: I-6 Displacement: 4.9 / Liters 300 / Cubic Inches
 Valves per Cylinder: 2 Rated HP: 150 @ 3400 RPM
 Engine: Front x Mid Rear Drive: FWD RWD x 4WD-FT 4WD-PT
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): TWC, OC, HO2S(2), EGR, AIR, SFI
 (use abbreviations per SAE J1930 SEP91)

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.
6-52G	Ford E250	L4	6500	16.2 ¹ 17.8 ²	V9-160	F6TE-EA	F6UA-AJ
6-52N	E250	L4	6500	16.2 ¹ 17.8 ²	V9-160	F4TE-AA	F6UA-AJB
6-72V	F250	L4	6500	16.2 ¹ 17.8 ²	V9-160	F4TE-AA	F6TA-AKB
6-72W	E350	L4	6500	16.2 ¹ 17.8 ²	V9-160	F4TE-AA	F6UA-AJB

¹ w/o A/C
² with A/C

Date Issued:

Revisions: