

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-98
Relating to Certification of New Motor Vehicles

FUJI HEAVY INDUSTRIES, LTD.

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 1996 model-year Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TFJ3.3VJGFEK Displacement: 3.3 Liters (202 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Dual Three Way Catalytic Converters
- Three Way Catalytic Converter
- Dual Heated Oxygen Sensors
- Heated Oxygen Sensor
- Exhaust Gas Recirculation
- Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards (in-use compliance standards in parentheses) for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.25 (0.32)	3.4 (5.2)	0.4 (0.4)	10.0 (10.0)
100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.20	1.3	0.1	6.6
100,000	0.22	1.5	0.2	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance as set forth 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 submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, 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."

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 "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 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 manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 3rd day of August 1995.



for R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Fuji Heavy Industries Ltd. Exh Eng Fam: TFJ3.3VJGFEK Evap Eng Fam: TFJ1036BYP4
 All Eng Codes in Eng Fam: CA ___ 49S ___ 50S x AB965 ___
 Exh Std: Tier-0 ___ Tier-1 x TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier-0 ___ Tier-1 x
 Evap Std: 50K x Useful Life with R/L ___ In-Use Exh Std: Full In Use ___ Alt In Use ___
 Veh Class(es): PC x LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated x Flex-Fuel ___ Dual-Fuel ___ Bi-Fuel ___ Gasoline x Diesel ___
 CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) ___
 Emiss Test Fuel(s): Indo x Ph2 ___ CNG ___ LPG ___ M85 ___ Other (specify) ___
 Diesel: 13 CCR 2282 ___ 40 CFR 86.113-90 ___ 40 CFR 86.113-94 ___
 Service Accum: Std AMA ___ Mod AMA x Mfr ADP ___ Other (specify) ___
 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): Otto N/A
 Engine Configuration: HO6 Displacement: 3.3 / Liters 202 / Cubic Inches
 Valves per Cylinder: 4 Rated HP: 230 @ 5400 RPM
 Engine: Front x Mid ___ Rear ___ Drive: FWD ___ RWD ___ 4WD-FT x 4WD-PT ___
 Exhaust ECS (e.g., EGR, MFI, TC, CAC): EGR, 2HO2S, 2TWC, SFI, HO2S TWC
 (use abbreviations per SAE J1930 SEP91)

Engine Code (CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test W	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
T3.3BBAA (50ST)	SVX AWD	A-4	3875	7.0	Electronic Control Unit: Fuji's Part No. 22611AC350	EGR Valve: Hitachi APDQ54-129 Fuji's Part No. 14710AA510	Fuji's Part No. Front: 20805AA930 Rear: 20805AA940

Date Issued: 7/03/'95

Revisions: _____

E.O # A-2-98

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1 of 1
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Fuji Heavy Industries Ltd. Exh Eng Fam: TFJ3.3VJGFKEK Evap Eng Fam: TFJ1036BYFA4
 All Eng Codes in Eng Fam: CA ___ 49S ___ 50S x AB965 ___
 Exh Std: Tier-0 ___ Tier-1 x TLEV ___ LEV ___ ULEV ___ ZEV ___ ; EPA Tier-0 ___ 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 x LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Fuel Type(s): Dedicated x Flex-Fuel ___ Dual-Fuel ___ Bi-Fuel ___ Gasoline x Diesel ___
 CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) ___
 Emiss Test Fuel(s): Indo x Ph2 ___ CMG ___ LPG ___ M85 ___ Other (specify) ___
 Diesel: 13 CCR 2282 ___ 40 CFR 86.113-90 ___ 40 CFR 86.113-94 ___
 Service Accum: Std AMA ___ Mod AMA x Mfr ADP ___ Other (specify) ___
 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): ___
 Engine Configuration: H06 Displacement: 3.3 / ___ Liters 202 / ___ Cubic Inches
 Valves per Cylinder: 4 Rated HP: 230 @ 5400 RPM
 Engine: Front x Mid ___ Rear ___ Drive: FWD ___ RWD ___ 4WD-FT x 4WD-PT ___
 Exhaust ECS (e.g., EGR, MFI, TC, CAC): EGR, H02S, TWC, SFI ZTWC 24025
 (use abbreviations per SAE J1930 SEP91)

Engine Code (CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test W	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
T3.3BBAA (50ST)	SVX AWD	A-4	3875	7.0	Electronic Control Unit: Fuji's Part No. 22611AC350 22611AC351 (R/C #96-9) 22611AC352 (R/C #96-12)	EGR Valve: Hitachi APDQ54-129 Fuji's Part No. 14710AA510	Fuji's Part No. Front: 20805AA930 20805AA870 (R/C#96-11) Rear: 20805AA940 20805AA880 (R/C#96-11)

Date Issued: 7/03/'95
 Revisions: 014-10/06/'95 018-10/09/'95 020-12/07/'95