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(Page 1 of 3)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-101 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 1997 model-year Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

<u>Fuel Type</u>: Gasoline

Engine Family: VFJ2.2VJG2EK Displacement: 2.2 Liters (135 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converters (two) Heated Oxygen Sensors (two) Sequential Multiport Fuel Injection Exhaust Gas Recirculation (Automatic Transmission Models Only)

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

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

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20⁰F)</u>
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20⁰F)</u>
50,000	0.093	1.7	0.1	0.0004	4.4
100,000	0.104	1.9	0.1	0.0004	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 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 the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent 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 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 "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 "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. FUJI HEAVY INDUSTRIES, LTD.

EXECUTIVE ORDER A-2-101 (Page 3 of 3)

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 22 day of May 1996.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O # A-2-101

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

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Page 1 of 2

Manufacturer: Full Heavy Industries Ltd. Exh Engine Family: VFJ2.2VJG2EK (System #1) Evap Std: 50K_x Useful Life with R/LEvap Engine Family: VFJ1110BYME5 Exh Std: Tier-0Tier-1TLEV_x LEVULEVZEV; EPA Tier-0Tier-1 Veh Class(es): PC_x LDT1LDT2MDV1MDV3MDV4MDV5 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) Exh Cert Fuel(s): IndoPh2_x Diesel: 13 CCR 2282 or 40 CFR 86.113-90 or -94 M85CNGLPGOther (specify)								
Engine Code CA/49ST /50ST T2.2CFMA (CA)	Vehicle Models LEGACY 4D AWD L LEGACY SW AWD Bgighton LEGACY SW AWD L	Trans. Type: A-Auto M-Man. M-5	ETW	г	Ignition (ECM/PCM) Part No. Electronic Control Unit: Fuji's Part No. 22611AD050 22611AD051 (R/C #97-2)	EGR	Catalytic Converter Part No. Fuji's Part No. Front: 20805AA960 Rear: 20805AA970	

#The model is tested at higher ETW in accordance with 40 CFR 86.094-26(a)(2).

Date Issued: 3/22/'96 evisions: 006-7/01/'96

E.O # A-2-101

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

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Page 2 of 2

Manufacturer: Fuji Heavy Industries Ltd. Exh Engine Family: VFJ2.2VJG2EK (System #2) Evap Std: 50K_x Useful Life with R/L Evap Engine Family: VFJ1110BYME5 Exh Std: Tier-0 Tier-1 TLEV_x LEV ULEV ZEV; EPA Tier-0 Tier-1 Veh Class(es): PC_x LDT1 LDT2 MDV1 MDV3 MDV4 MDV5 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) Exh Cert Fuel(s): Indo Ph2_x Diesel: 13 CCR 2282 or 40 CFR 86.113-90 or -94 M85 CNG LPG Other (specify) M85 Fuel Type(s): Dedicated_x Flex-Fuel Dual-Fuel Gasoline_x Diesel Mybrid: Type A B APU Cycle (e.g., Otto, Diesel, Turbine) Engine Configuration: MUCycle (user								
Engine	S (eg., EGR, MFI, TO Vehicle Models	Trans. Type: A-Auto M-Man.	ETW	(use ab		EGR System	SEP91) Catalytic Converter Part No.	
T2.2CFAA (CA)	LEGACY 4D AWD L LEGACY 4D AWD LS LEGACY SW AWD Brighton LEGACY SW AWD L LEGACY SW AWD LS	A-4		7.2 7.0 7.8 7.8 7.9		EGR Valve: Mitsubishi K005T75073 Fuji's Part No. 14710AA611	Fuji's Part No. Front: 20805AA960 Rear: 20805AA970	

#The model is tested at higher ETW in accordance with 40 CFR 86.094-26(a)(2).