State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-56 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Fuji Heavy Industries Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	•	lacement Cubic Inches)	Exhaust Emission Control Systems (Special Features)		
KFJ1.8V2HCF5	1.8 (109)		Air injection — Valve Exhaust Gas Recirculation Oxygen Sensor		
			Three-Way Catalyst Oxidation Catalyst		

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0.41	7.0	0.7	

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0.20	4.0	0.3	

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Mode! Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Cat form a Motor Vehicle Tune-Up Label Specifications" (Title 13 California Administrative Code, Section 1965) for the aforementioned model

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Maifunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) 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 regulations (Title 13, California Administrative Code. 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 21^{11} day of May, 1988.

K. D. Drachand, Chief Mobile Source Division

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Manufacturer <u>Fuji Heavy Indus</u>	tries Ltd. Engine Family E	KFJ1.8V2HCF5	
Evaporative Family NU	Engine Type	HO4	
	Liters (CID)	l.8 Liters (109)	
ABBREVIATIONS			
Ignition System	Exhaust Emissions Control System	Special Features	
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	AIP-Air Injection - Pump AIV-Air Injection - Valve EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control (Diesel Only) EM-Engine Modification SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical DBC-Dual Bed Catalyst	CFI-Central Fuel Injection or Throttle Body Injection EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber TC-Turbocharger SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics	
Fuel System CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carburetor	OC-Oxidation Catalyst TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor		
VEHICLE MODELS:			
AF4; 2-door Hatchback			
Engine: Front x Mid.	Rear		
Drive: FWD x RWD	4WD Full Time	4WD Part Time	

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ssenger (Cars <u>x</u> Light	-Duty T	rucks	Medium-Dut	y Vehicles	Gasx	Diesel
Manufacture	er <u>Fuji Heavy</u>	Industr	ies Ltd.	Engine I	ramily KFJ	1.8V2HCF5	
Liter (CID)	1.8 Liters	(109)		Eng.	. Type <u>H04</u>		
Emission Co	ontrol Sys. (Spe	cial Fe	eatures)	AIV, OS, I	GR, OC(1), TW	C(1)	
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Туре	Test	Ign. System (ECU) CA, EI, VA Part No.	1		Catalyst Part No.
K1.8V2CFM	AF4 (7.9/8.7)	М5		Distributor: Nippondenso 100291-0300	DCP306-24		Fuji's Part No. Front: 461088500
K1.8V2CFMA				Fuji's Part No. 429879000 Electronic Control Unit: Fuji's Part No. 460827511 or 460827512	429979550	14710AA241	
K1.8V2CFA		А3	2500	Distributor:	1)	Hitachi	
K1.8V2CFAA					Fuji's Part No.	APDQ72-4 Fuji's Part No. 14710AA261	
				Electronic Control Unit: Fuji's Part No. 460827511 or 460827512			

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).

Date of Issue April 29, 1988 Revisions: