(Page 1 of 2)

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-48 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 1988 model-year Fuji Heavy Industries Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JFJ1.8V2HCF4	1.8	(109)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst Oxidation Catalyst Oxygen Sensor

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	<u>Grams per mile</u>
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	<u>Grams per Mile</u>	
0.20	4.1	0.3	

BE IT FURTHER RESOLVED: That the listed models were 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.

FUJI HEAVY INDUSTRIES LTD.

EXECUTIVE ORDER A-2-48 (Page 2 of 2)

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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction 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. h

Executed at El Monte, California this

15 day of <u>July</u>, 1987.

K. D. Drachand, Chief Mobile Source Division

Attachment 3

198 8 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-2-48

Page 1

🦕ufacturer Fuji Heavy Indu	ctries Ltd. Engine	Family JFJ1	.8V2HCF4	
Evaporative Family <u>NU</u>	Engine	Туре	но4	
	Liters	(CID)	1.8 liters (109)	
ABEREVIATIONS		. •		
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-A AIV-Air Injection-M DBC-Dual Bed Cataly EGR-Exhaust Gas Rec EIC-Electronic Inje EM-Engine Modificat OC-Oxidation Cataly OS-Oxygen Sensor HOS-Heated Oxygen S SPL-Smoke Puff Limi Throttle Delay TOC-Trap Oxidizer, TOP-Trap Oxidizer, TWC-Three-Way Catal WUOC-Warm-Up Oxidat WUTWC-Warm-Up Three	Pump Valve Vst Firculation Action Control Fion St ensor- ter or Continual Periodical Vst ion Catalyst	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or Aftercooler MFI-Mechanical Fuel Injection OBD-On-Board	
			Diagnostics TC-Turbocharger	
VENICLE MODELS.				
VEHICLE MODELS:				
AF4; 2-door Hatchback				
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FWD x RWD 4WD Full Time 4WD Part Time

111000

Drive:

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Engine: Front <u>x</u> Mid. ____ Rear _____

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	1988 AIR RESOURCES		A-2-47
enger Cars	Light-Duty Trucks	PaMedium-Duty Vehicles Gas	ge Diesel
	Fuji Heavy Industries Ltd.	Engine Family JFJ1.8V2HCF4	
Liter (CID)	1.8 Liters (109)	Eng. Type HO4	
Emission Contr	ol Sys. (Special Features)	AIV, OS, EGR, OC(1), TWC(1)	

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Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. [.] Test Weight	Ign. System (ECU) CA, EI, VA Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Catalyst Part No.
	(Dyno Hp)						
1.8V2CFM	AF4 (7.9/8.7)	M5	2625 (2500)#	Distributor: Nippondenso 100291-0300	Hitachi DCP306-24 Fuji's Part	Hitachi APDQ72-3 Fuji's Part	Fuji's Par No. Front:
1.8V2CFMA			2500	Fuji's Part No.429879000	No.429979550		461088500 or 461088501
<u> </u>				Electronic Control Unit: Fuji's Part No. 460827511			Rear: 46108760 0
				or 460827512			
1.8V2CFA 1.8V2CFAA		A3	2500	Distributor: Hitachi D4R83-13 Fuji's Part No.429879100	DCP306-25	Hitachi APDQ72-4 Fuji's Part No. 14710AA261	
				Electronic Control Unit: Fuji's Part No. 460827511 or 460827512			
lease refe	See page one for r to manufacturer If two test weig	's HP lis	st for cor	rect dyno test e lower weight	HP settings !	based on mod for testing	el and

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