#### 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	Displacement Liters (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	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	4.1	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.

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.

Executed at El Monte, California this

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-2-47

Page 1

Evaporative Family NU		Engine Type	но4
		Liters (CID)	1.8 liters (109)
ABBREVIATIONS	,		
Ignition System	Exhaust E	missions 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	AIV-Air I DBC-Dual EGR-Exhau EIC-Elect EM-Engine OC-Oxidat OS-Oxygen HOS-Heated SPL-Smoke Throttle TOC-Trap (	d Oxygen Sensor Puff Limiter or Delay Oxidizer, Continual Oxidizer, Periodical	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic
System  CFI, CL, DID, DIP, EFI, MFI  nV-nVenturi Carburetor	TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Cataly WUTWC-Warm-Up Three-Way Cata		Fuel Injection IC-Intercooler or Aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger

## VEHICLE MODELS:

AF4; 2-door Hatchback

Engine:	Front	<u> </u>	Mid.	Rear		
Drive:	FWD	<u> </u>	RWD	4WD	Full Time	4WD Part Time

	198	8 AIR RE	SOURCES BO	ARD SUPPLEMENT	AL DATA SHEET	E.O. # _A	-7-48
enger	Cars <u>×</u> Light					_	e iesel
	rer <u>Fuji Heavy</u>						
	D) 1.8 Liters						
	Control Sys. (Spe						
		1	γ				
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) CA, EI, VA Part No.	Fuel System		
	(Dyno Hp)			rart NO.	Part No.	Part No.	Part No.
J1.8V2CFM	AF4 (7.9/8.7)	M5	262 <b>5</b> (2500)#	Distributor: Nippondenso 100291-0300		APDQ72-3 No. Fuji's Part Front: No. 46108850 14710AA241 or 46108850 Rear:	
J1.8V2CFMA			2500	Fuji's Part No.429879000	No.429979550		461088500 or 461088501
	·			Electronic Control Unit: Fuji's Part No. 460827511 or			
				460827512			
J1.8V2CFA J1.8V2CFAA		А3	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			
riease rere	See page one for r to manufacturer If two test weig #The model is tes	hts are 1	st for cor listed, th	rect dyno test e lower weight	<pre>HP settings will be used</pre>	based on mod for testing	el and
Date of Iss	ue <u>May 22, 198</u>	37	Revision	s: 6/25/'87			