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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-42 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 1987 model-year Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control System (Special Features)		
HFJ1.8V5HCW1	109	(1.8)	Exhaust Gas Recirculation Three-Way Catalyst Oxidation Catalyst Oxygen Sensor (Electronic Fuel Injection) (Turbocharger)		

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	Grams per Mile
0.23	2.6	0.5

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 1981 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 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 July, 1986.

K. D. Drachand, Chief Mobile Source Division

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Manufacturer <u>Fuji</u>	Heavy Indust	ries Ltd. Engine Family HFJ1.8V5	HCW1
Evaporative Family	MU	Engine Type H04	
		Liters (CID) 1.8 Liter	rs
ABBREVIATIONS			
Ignition System		Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance EEC-Electronic Engine EI-Electronic Ignit ESAC-Electronic Spancontrol VA-Vacuum Advance VR-Vacuum Retard Fuel System CFI, CL, DID, DIP, nV-nVenturi Carbure	ne Control ion rk Advance EFI, MFI	AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TR-Thermal Reactor TWC-Three-Way Catalyst System	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger
VEHICLE MODELS:	·		
AC4; AC5 & AC7; AG5; AN4; AN5 & AN7;	4-door Sedan 4-door Sedan 3-door 4WD Station Wagon Station Wagon	4WD	

Eng me:	Front	x	Mid	Rear		-					
Drive:	FWD	x	RWD	4WD	Full Time	<u> </u>	4WD	Part	Time	<u>x</u>	

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	cars x cigne	-bucy iii	JCKS	Medium-Duty Ve	enicies	Gas x Di	esel
Manufactur	re r Fuji Heavy I	ndustrie	s Ltd.	Engine Far	mily <u>HFJ1.8V</u>	5HCW1	
Liter (CID) 1.8 Liters				Eng. 1	Гуре НО4		
Emission C	Control Sys. (Spec	cial Feat	ures) <u>c</u>	J., EGR, OC, TWO	C, (EFI, TC)	T	
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EEC Part No.	Fuel System EFI Part No.	EGR Valve	Catalyst
11.8V5CWMA -08	AX4 (6.8) AX7 (8.1)	M5	2875 3125 (3000)#	Distributor: Hitachi D4P84-03 Fuji's Part No.	Injector: JECS 0970 Fuji's Part No. 16600AA000	Hitachi APDQ72-11 Fuji's Part No. 14710AA370	Fuji's Par No. Front: 20805AA07 Rear: 20805AA15
11.8V5CWAA -08	AX4 (6.8) AX7 (8.1) See page one for	A4	3000	22100AA053	Electronic Control Unit Fuji's Part No. 22611AA290	Fuji's Part No. 14710AA380	

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

Date of Issue December 15, 1986 Revisions:

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Passenger	Cars x Light	-				Page	
	rer Fuji Heavy						
	0) 1.8 Liters						
• ,	Control Sys. (Spe						
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EEC Part No.	Fuel System EFI Part No.	:	Catalyst Part No.
H1.8V5CWMA	(Dyno Hp) AC4 (GL) (7.7) AC4 (GL-10) (7.7) AG4 (7.5)	м5	2750 (2625)# 2750	Distributor: Hitachi D4P84-03 Fuji's Part No.		APDQ54-46 Fuji's Part	Front:
	AN4 (8.2) AC5 (9.1) AG5 (8.9) AC7 (9.1) AN5 (GL-10) (9.4)		287 5 300 0	22100AA05 3	Electronic Control Unit Fuji's Part No. 22611AA141		
	AN5 (GL-10) (9.4)	·	312 5 (3000) (
H1.8V5CWAA	AC4 (7.7)	A3	2875			Hitach i APDQ54-32	
	AN4 (8.2) AC7 (9.1)		300 0			Fuji's Part	
	AN7 (9.4)		3125	·u		14710A4032	
Please refe	See page one for r to manufacture of two test weight	r's HP li ghts are	st for con listed, ti	rrect dyno tes ne lower weigh	t HP settings t will be used	based on mo I for testin	del and g.

Cate of Issue June 20, 1986 Revisions: March 27, 1987

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Evaporative Family MU	Engine Type H04	
	Liters (CIO) 1.8 Liter	S
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TR-Thermal Reactor TWC-Three-Way Catalyst System	CCY-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel
Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor		Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger

AC4; 4-door Sedan AC5 & AC7; 4-door Sedan 4WD AG5; 3-door 4WD AN4; Station Wagon ANS & AN7; Station Wagon 4WD AX4; $\mathbf{X}\mathbf{T}$ AX7; XT 4WD

Engine:	Front x	_ Mid	Rear	•		
Orive:	FHO ×	RWD	4WD Full Time	× 4WD Part Time	x	