

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-39
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:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HFJ1.8V5HCVO	109 (1.8)	Exhaust Gas Recirculation Three-Way Catalyst Oxidation Catalyst Oxygen Sensor (Central Fuel Injection)

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

The following are the emission standards for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.41	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.19	2.9	0.4

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".

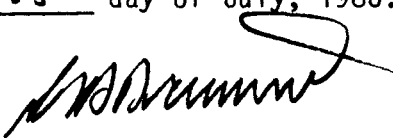
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

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 15th day of July, 1986.


K. D. Drachand, Chief
Mobile Source Division

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Manufacturer Fuji Heavy Industries Ltd. Engine Family HFJ1.8V5HCVO
 Evaporative Family KU Engine Type HO4
 Liters (CID) 1.8 Liters

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Exhaust Emissions Control System

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

Special Features

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

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

VEHICLE MODELS:

AC4; 4-door Sedan
 AG4; 3-door
 AN4; Station Wagon

Engine: Front x Mid. _____ Rear _____
 Drive: FWD x RWD _____ 4WD Full Time _____ 4WD Part Time _____

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Passenger Cars x Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas x Diesel _____

Manufacturer Fuji Heavy Industries Ltd. Engine Family HFJ1.8V5HCVC

Liter (CID) 1.8 Liters Eng. Type H04

Emission Control Sys. (Special Features) CL, EGR, OC, TWC, (CFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equip. Test Weight	Ign.-System (ECU) EEC Part No.	Fuel System CFI Part No.	EGR Valve Part No.	Catalyst Part No.			
3.8V5CVSM	AC4 (DL) (7.0/7.7)	M5	2500	Distributor: Hitachi E4P86-03	Injector: Hitachi RFB42-2	Hitachi APDQ72-3	Fuji's Part No. Front: 20805AA12 Rear: 20805AA150			
	AC4 (DL) (6.8/7.5)		2525 (2500)†	Fuji's Part No. 22100AA400	Fuji's Part No. 16114AA170	Fuji's Part No. 14710AA241				
	AC4 (GL) (7.0/7.7)		2625	Electronic Control Unit: Fuji's Part No. 22611AA201						
	AC4 (GL) (6.8/7.5)									
	AN4 (DL) (7.5/8.2)		2750							
AN4 (GL) (7.5/8.2)										
3.8V5CVSMA	AC4 (DL) (7.0/7.7)		2625 (2500)†							
	AC4 (GL) (7.0/7.7)		2625							
	AC4 (DL) (6.8/7.5)									
	AC4 (GL) (6.8/7.5)		2750 (2625)†							
	AN4 (DL) (7.5/8.2)									
AN4 (GL) (7.5/8.2)	2750									

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 June 20, 1986 Revisions: 5/22/'87

Passenger Cars x Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas x Diesel _____

Manufacturer Fuji Heavy Industries Ltd. Engine Family HFJ1.8V5HCVO

Liters (CID) 1.8 Liters Eng. Type H04

Emission Control Sys. (Special Features) CL, EGR, OC, TWC, (CFI)

Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EEC Part No.	Fuel System CFI Part No.	EGR Valve Part No.	Catalyst Part No.
1.8V5CVSA	AC4 (DL) (7.0/7.7)	A3	2625 (2500)†	Distributor: Hitachi D4P86-03 Fuji's Part No. 22100AA400	Injector: Hitachi RFB42-2 Fuji's Part No. 16114AA170 Electronic Control Unit: Fuji's Part No. 22611AA201	Atsugi AEY78-14 Fuji's Part No. 14710AA251	Fuji's Part No. Front: 20805AA10 Rear: 20805AA15
	AC4 (GL) (7.0/7.7)		2625				
	AG4 (6.8/7.5) AN4 (DL) (7.5/8.2)		2750 (2625)†				
	AN4 (GL) (7.5/8.2)		2750				
1.8V5SAA	AC4 (DL) (7.0/7.7)		2625				
	AC4 (CL) (7.0/7.7)		2750 (2625)†				
	AC4 (GL-10) (7.0/7.7) AG4 (6.8/7.5) AN4 (DL) (7.5/8.2)		2750				
	AN4 (CL) (7.5/8.2)		2875 (2750)†				
	AN4 (GL-10) (7.5/8.2)		2875				

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).

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