

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-14  
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 1983 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>
DFJ1.8V2FCF1	109 (1.8)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1983 model-year vehicles:

<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>
0.17	5.1	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 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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.

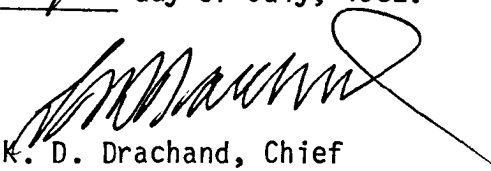
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 29<sup>th</sup> day of July, 1982.

  
K. D. Drachand, Chief  
Mobile Source Control Division

Test Weight/Horsepower List

Engine Family	Engine Code	Transmission	Model	Test Weight	Horsepower
DFJ1.6V2FCEX	D1.6V2CM D1.6V2CMA	Manual-4	AF2	2375 lbs.	8.3 HP
	D1.6V2CM	Manual-5	AF2	2375 lbs.	8.3 HP
			AB2		7.7 HP
			AW2		7.1 HP
	D1.6V2CMA		AF2	2500 lbs.*	8.3 HP
			AB2		7.7 HP
		AW2	7.1 HP		
	DFJ1.8V2FCF1	D1.8V2CM D1.8V2CMA	Manual-5	AF2	2500 lbs.*
AB2				8.5 HP*	
AW2				7.8 HP*	
AM2				2625 lbs.*	8.8 HP*
D1.8V2CA D1.8V2CAA		Automatic-3	AF2	2500 lbs.*	9.1 HP*
			AB2	2625 lbs.*	8.5 HP*
			AW2		7.8 HP*
			AM2	2750 lbs.*	8.8 HP*

\*Weight of air conditioner is included and 10 % factor for air conditioner is added because air conditioner is expected to be installed on more than 33 % of all carlines within DFJ1.8V2FCF1 engine family.

Issue Date: 6/18/82		Page: 17-15		PAGE IS <input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY	
Revision Date				DATE	EPA REP

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Fuji Heavy Ind. Executive Order No. A-2-14 Page 1  
 Engine Family DFJ1.8V2FCF1 Evaporative Family NU  
 Engine CID (Liters) 109 (1.8)

ABBREVIATIONS

Ignition System

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

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi

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  
 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  
 MFI-Mechanical Fuel Injector  
 TC-Turbocharged

Vehicle Models

AF4 (SUBARU 1800 2-door Hatchback)  
 AB4 (SUBARU 1800 4-door Sedan)  
 AW4 (SUBARU 1800 Hardtop)  
 AM4 (SUBARU 1800 Station Wagon)

DRIVE SYSTEM: Front engine/front transaxle drive

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1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Fuji Heavy Industries Ltd. (SUBARU)    I.O. #A -2-14

Engine Family DFJ1.8V2FCF1    CID (liter) - Type 109 (1.8) - H04

ECS (Special Features) EGR, AIV, TWC+CL

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Ign. System CA, VA, EI Part No.	Fuel System 1 - 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
D1.8V2CM	AF4	M5	Nippondenso 100291-0080  Fuji Part No. 429878602	Hitach DCP306-18  Fuji Part No. 429978370	Hitachi APDQ72-3A  Fuji Part No. 469997450	Tune-up 02  Vacuum Hose Routing 11
	AB4 AW5 AM5					
	AM5					
D1.8V2CMA	AF4 AB4 AW4					
D1.8V2CA	AM4	A3		Hitachi DCP306-19  Fuji Part No. 429978870	Hitachi APDQ72-4A  Fuji Part No. 469997350	Tune-up 02  Vacuum Hose Routing 09
	AF4 AB4 AW4					
	AM4					
D1.8V2CAA	AF4					
	AB4 AW4					
	AM4					

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.

\*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -  
Revisions:

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