File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-91-1
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 1995 model-year Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: SFJ1.8VJGFEK Displacement: 1.8 Liters (111 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Pulsed Secondary Air Injection
Exhaust Gas Recirculation
Heated Oxygen Sensor
Three Way Catalytic Converters (two)
Sequential Multiport Fuel Injection

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

The certification exhaust emission standards (alternative in-use compliance standards in parentheses) for this engine family in grams per mile are:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
50,000	0.25 (0.32)	3.4 (5.2)	0.4 (n/a)
100,000	0.31 (n/a)	4.2 (n/a)	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
50,000	0.15	1.6	0.2
100,000	0.18	1.8	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth 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 under the submitted compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance as set forth 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 submitted alternative in-use compliance plan satisfies the requirement that a maximum of 60 percent of the manufacturer's projected sales of 1995 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the listed vehicle models are certified to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles at the request of the manufacturer based on the assumption that those standards and test procedures in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles" will be amended with the result that the data submitted by the manufacturer for the listed vehicle models would be sufficient to satisfy the requirements applicable to 1995 and subsequent model-year vehicles. The Air Resources Board approved such amendments at a hearing conducted on February 10, 1994. The certification of the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles is **CONDITIONAL** on such amendments becoming effective by January 31, 1995. If such amendments do not become effective by January 31, 1995, the listed vehicle models shall be deemed certified to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles" unless the manufacturer demonstrates, to the Executive Officer's satisfaction, that the listed vehicle models comply with the requirements for running loss and useful life standards and test procedures in effect on the date of this certification order.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) 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 provisions (Title 13, California Code of Regulations, 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 22nd day of August, 1994.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O # A-2-91-1

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Fuji Heavy Industries Ltd. Exh Engine Family: SFJ1.8VJGFEK

Evap Std: 50K____ Useful Life with R/L x Evap Engine Family: SFJ1110BYM14

Exh Std: Tier-0____ Tier-1 x TLEV____ LEV____ ULEV____ ZEV____ ; EPA Tier-0____ Tier-1 x

Veh Class(es): PC x LDT1____ LDT2____ MDV1____ MDV2____ MDV3____ MDV4____ MDV5____

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Exh Cert Fuel(s): Indo___ Ph2 x Diesel: 13 CCR 2282___ or 40 CFR 86.113-90___ or -94___

M85____ CNG____ LPG___ Other (specify)_____

Fuel Type(s): Dedicated x Flex-Fuel___ Dual-Fuel___ Gasoline x Diesel___ M85___

CNG___ LNG___ LPG___ Other (specify)_____

Hybrid: Type A___ B___ C___, APU Cycle (e.g., Otto, Diesel, Turbine) Otto

Engine Configuration: H04 Displacement: 1.8 / Liters 111 / Cubic Inches

Engine: Front x Mid____ Rear____ Drive: FWD x RWD____ 4WD-FT____ 4WD-PT____

Exhaust ECS (eg., EGR, MFI, TC, CAC): PAIR, EGR, HO2S, TWC(2), SFI

(use abbreviations per SAE J1930 SEP91)

Engine Code (CA/49ST /50ST	Vehicle Models	Trans. Type: A-Auto M-Man.	ETW	DPA	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
S1.8CNM (CA)	IMPREZA 2D Base	M-5	2750	6.5	Electronic Control Unit: Fuji's Part No. 22611AC140	EGR Valve: Mitsubishi K005T75072, AA551 Fuji's Part No. 14710AA551	Fuji's Part No. Front: 20805AA780 Rear: 20805AA800
	IMPREZA 4D Base						
	IMPREZA CW Base		2875 (2750)#	7.0			
S1.8CNMA (CA)	IMPREZA 2D Base		2750	7.2			
	IMPREZA 4D Base						
	IMPREZA 2D L			7.2			
				6.5			
	IMPREZA 4D L			7.2			
				6.5			
	IMPREZA CW Base		2875	7.7			
	IMPREZA CW L			7.7			
				7.9			
				7.3			
S1.8CNAA (CA)	IMPREZA 2D L	A-4	2875	6.6			
				6.3			
	IMPREZA 4D L			6.6			
				6.3			
	IMPREZA CW L		3000	7.5			
				7.4			
				7.0			

#The model is tested at higher ETW in accordanc3e with 40 CFR 86.095-26(a)(2).

Date Issued: 7/08/'94

Revisions:_____

SUPPLEMENTAL DATA SHEET

Test Weight/Horsepower List

EO#A-2-91-1

Engine Family	Engine Code	Trans.	Model	Test Weight*	Horsepower**
SFJ1.8VJGFEK	S1.8BLM S1.8BLMA	M-5	Impreza 2D L	2750	7.2#2/6.5#3
			Impreza 4D L		7.2/7.2#2/6.5#3
			Impreza CW Base	2875	7.7
			Impreza CW L		7.7/7.9#2/7.3#3
			Impreza 4D AWD Base	3000(2875)#1	8.1#2/7.8#3
			Impreza 2D AWD L	3000	
			Impreza 4D AWD L		
			Impreza CW AWD L	3125(3000)#1	8.9#2/8.5#3
	S1.8BLAA	A-4	Impreza 2D L	2875	6.6#2/6.3#3
			Impreza 4D L		6.6/6.6#2/6.3#3
			Impreza 2D AWD L	3000	7.6#2/7.3#3
			Impreza 4D AWD L		
			Impreza CW AWD L	3125	8.4#2/7.9#3
	S1.8CNM S1.8CNMA	M-5	Impreza 2D Base	2750	7.2
			Impreza 2D L		7.2#2/6.5#3
			Impreza 4D Base		7.2
			Impreza 4D L		7.2/7.2#2/6.5#3
			Impreza CW Base	2875	7.7
			Impreza CW L		7.7/7.9#2/7.3#3
	S1.8CNAA	A-4	Impreza 2D L	2875	6.6#2/6.3#3
			Impreza 4D L		6.6/6.6#2/6.3#3
			Impreza CW L	3000	8.4#2/7.9#3