State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-89
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 1994 model-year Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: RFJ1.8VJGFEK 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 for this engine family in grams per mile are:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
50,000	0.25	3.4	0.4
100,000	0.31	4.2	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	1.3	0.2
100,000	0.17	1.5	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 on January 14, 1993, the Air Resources Board adopted the repeal of the currently-effective requirement that each manufacturer certify a minimum of 80 percent of its projected sales of 1994 model-year California-certified passenger cars and light-duty trucks to the phase-in standards for NMHC, or the more stringent standards in section 1960.1(g)(2) of Title 13, California Code of Regulations. If the repeal of such requirement does not become effective, the manufacturer shall submit a plan for compliance with the requirement; passenger cars and light-duty trucks not meeting such phase-in or more stringent standards shall be certified only to the extent allowed under the requirement.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2290).

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 7th day of July, 1993.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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ıfacturer Fuji Heavy Industries Ltd. Eng. Family RFJ1.8VJGFEK

Pass Car x Lt-Duty Truck ____ Med-duty Vehicle ____ Fuel Type Gasoline

Engine Config. HO4 Liter (CID) 1.8(111) Evaporative Family RFJ1030BYM02

Exhaust ECS & Special Features (incl. CARB, MPI, etc.) PAIR, EGR, HO2S, TWC(2), SFI

(Use abbreviations per SAE J1930 Jun88)

Engine: Front x Mid. ____ Rear ____ Drive: FWD x RWD ____ 4WD-FT x 4WD-PT ____

Eng. Code/ (Cert Std.)	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP	Ign. Sys. (ECU.PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
R1.8BLM (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC21	M-5	2750 (2625)#	6.5	Electronic Control Unit: Fuji's Part No. 22611AB740	EGR Valve: Mitsubishi K005T75072, A550 Fuji's Part No. 14710AA550	Fuji's Part No. Front: 20805AA780 Rear: 20805AA800
	GC22		2750	6.5			
	GF22		2750	7.0			
	GC22		2875	7.1			
				7.4			
	GF22		3000	7.7			
				8.1			
R1.8BLMA .25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC21, GC22 GC24		2750	7.2			
	GC25		2875	7.2			
				6.5			
	GF22, GF24		2875	7.7			
	GF25		3000	7.9			
				7.3			
	GF22, GC24		3000 (2875)#	7.8			
				8.0			
	GF22, GF24		3000	8.5			
				8.9			
	GC25		3125 (3000)#	7.8			
				8.0			
	GF25		3125	8.5			
				8.9			

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).
*1 Exhaust emissions standards at 50,000-mile point.
*2 Exhaust emissions standards at 100,000-mile point.

Date of Issue: May 31, 1993 Revisions:

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ıfacturer Fuji Heavy Industries Ltd. Eng. Family RFJ1.8VJGFEK

Pass Car x Lt-Duty Truck ____ Med-duty Vehicle ____ Fuel Type Gasoline

Engine Config. HO4 Liter (CID) 1.8(111) Evaporative Family RFJ1030BYM02

Exhaust ECS & Special Features (incl. CARB, MPI, etc.) PAIR, EGR, HO2S, TWC(2), SFI
(Use abbreviations per SAE J1930 Jun88)

Engine: Front x Mid. ____ Rear ____ Drive: FWD x RWD ____ 4WD-FT x 4WD-PT ____

Eng. Code/ (Cert Std.)	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP	Ign. Sys. (ECU.PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
R1.8BLA (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC22	A-4	2875	6.0	Electronic Control Unit: Fuji's Part No. 22611AB740	EGR Valve: Mitsubishi K005T75072, A550 Fuji's Part No. 14710AA550	Fuji's Part No. Front: 20805AA780 Rear: 20805AA800
	GF22		2875	6.8			
	GC22		3000	6.6			
				6.9			
	GF22		3125 (3000)#	7.2			
				7.6			
R1.8BLAA (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC22, GC24		2875	6.6			
	GC25		3000	6.6			
				6.3			
	GC22, GC24		3000	7.3			
				7.6			
	GF25		3125	7.4			
				7.0			
	GC25		3125	7.3			
				7.6			
	GF22, GF24		3125	7.9			
				8.4			
	GF25		3250	7.9			
				8.4			

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).
*1 Exhaust emissions standards at 50,000-mile point.
*2 Exhaust emissions standards at 100,000-mile point.

Date of Issue: May 31, 1993 Revisions:
1290

EO# A-2-89

Vehicle Models

Engine Family RFJ1.8VJGFEK

GC21: IMPREZA 4-door Sedan

GC22: IMPREZA 4-door Sedan LE

IMPREZA 4-door Sedan AWD LE

GC24: IMPREZA 4-door Sedan L

IMPREZA 4-door Sedan AWD L

GC25: IMPREZA 4-door Sedan LS

IMPREZA 4-door Sedan AWD LS

GF22: IMPREZA Wagon LE

IMPREZA Wagon AWD LE

GF24: IMPREZA Wagon L

IMPREZA Wagon AWD L

GF25 IMPREZA Wagon LS

IMPREZA Wagon AWD LS

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Manufacturer Fuji Heavy Industries Ltd. Eng. Family RFJ1.8VJGFEK

Pass Car x Lt-Duty Truck ____ Med-duty Vehicle ____ Fuel Type Gasoline

Engine Config. HO4 Liter (CID) 1.8(111) Evaporative Family RFJ1030BYM02

Exhaust ECS & Special Features (incl. CARB, MPI, etc.) PAIR, EGR, HO2S, TWC(2), SFI

(Use abbreviations per SAE J1930 Jun88)

Engine: Front x Mid. ____ Rear ____ Drive: FWD x RWD ____ 4WD-FT x 4WD-PT ____

Eng. Code/ (Cert Std.)	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP	Ign. Sys. (ECU.PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
R1.8BLM (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC21, GC22	M-5	2750	6.5	Electronic Control Unit: Fuji's Part No. 22611AB740 R/C #94-11 22611AB741	EGR Valve: Mitsubishi K005T75072, A550 Fuji's Part No. 14710AA550	Fuji's Part No. Front: 20805AA780 Rear: 20805AA800
	GC24		2750	6.5			
				5.9			
	GF22		2875 (2750)#	7.0			
	GF24		3000 (2875)#	7.0			
				7.2			
				6.6			
	GC22		2875	7.1			
				7.4			
	GF22, GF24		3000	7.7			
				8.1			
R1.8BLMA (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC21, GC22		2750	7.2			
	GC24, GC25		2875	7.2			
				6.5			
	GF22		2875	7.7			
	GF24		3000 (2875)#	7.7			
				7.9			
				7.3			
	GF25		3000	7.9			
				7.3			
	GC22		3000 (2875)#	8.1			
				7.8			
	GC24, GC25		3000	8.1			
				7.8			
	GF22		3000	8.5			
				8.9			
	GF24, GF25		3125	8.5			
				8.9			

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).
*1 Exhaust emissions standards at 50,000-mile point.
*2 Exhaust emissions standards at 100,000-mile point.

Date of Issue: May 31, 1993 Revisions: 012-9/1/'93
1290 023-4/19/'94

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Manufacturer Fuji Heavy Industries Ltd. Eng. Family RFJ1.8VJGFEK

Pass Car x Lt-Duty Truck ____ Med-duty Vehicle ____ Fuel Type Gasoline

Engine Config. HO4 Liter (CID) 1.8(111) Evaporative Family RFJ1030BYM02

Exhaust ECS & Special Features (incl. CARB, MPI, etc.) PAIR, EGR, HO2S, TWC(2), SFI
(Use abbreviations per SAE J1930 Jun88)

Engine: Front x Mid. ____ Rear ____ Drive: FWD x RWD ____ 4WD-FT x 4WD-PT ____

Eng. Code/ (Cert Std.)	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP	Ign. Sys. (ECU.PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
R1.8BLA (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC22	A-4	2875	6.0	Electronic Control Unit: Fuji's Part No. 22611AB740 R/C #94-11 22611AB741	EGR Valve: Mitsubishi K005T75072, 4550 Fuji's Part No. 14710AA550	Fuji's Part No. Front: 20805AA780 Rear: 20805AA800
	GC24		2875	6.0			
				5.7			
	GF22		2875	6.8			
	GF24		3000 (2875)#	6.8			
				6.7			
				6.4			
	GC22		3000	6.6			
				6.9			
	GF22		3125 (3000)#	7.2			
				7.6			
	GF24		3125	7.6			
				7.2			
R1.8BLAA (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC22		2875	6.6			
	GC24, GC25		3000	6.6			
				6.3			
	GF22		3000	7.5			
	GF24		3000	7.5			
				7.4			
				7.0			
	GF25		3125	7.4			
				7.0			
	GC22		3000	7.3			
				7.6			
	GC24		3125 (3000)#	7.6			
				7.3			
	GC25		3125	7.6			
				7.3			
	GF22, GF24		3125	7.9			
				8.4			
	GF25		3250	7.9			
				8.4			

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).
*1 Exhaust emissions standards at 50,000-mile point.
*2 Exhaust emissions standards at 100,000-mile point.

Date of Issue: May 31, 1993 Revisions: 012-9/1/'93
1290 023-4/19/'94

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Manufacturer Fuji Heavy Industries Ltd. Eng. Family RFJ1.8VJGFEK

Pass Car x Lt-Duty Truck ___ Med-duty Vehicle ___ Fuel Type Gasoline

Engine Config. HO4 Liter (CID) 1.8(111) Evaporative Family RFJ1030BYM02

Exhaust ECS & Special Features (incl. CARB, MPI, etc.) PAIR, EGR, HO2S, TWC(2), SFI

(Use abbreviations per SAE J1930 Jun88)

Engine: Front x Mid. ___ Rear ___ Drive: FWD x RWD ___ 4WD-FT x 4WD-PT ___

Eng. Code/ (Cert Std.)	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP	Ign. Sys. (ECU,PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
R1.8BLM-06 (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC21, GC22	M-5	2625	6.5	Electronic Control Unit: Fuji's Part No. 22611AA800	EGR Valve: Hitachi APDQ54-113 Fuji's Part No. 14710KA130	Fuji's Part No. Front: 20805AA780 Rear: 20805AA800
	GF22		2750	7.0			
	GC22		2875 (2750)#	7.1			
	GF22		2875	7.7			
R1.8BLMA-06 (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC21		2625	7.2			
	GC22		2750 (2625)#	7.2			
	GF22		2750	7.7			
	GC22		2875	7.8			
	GF22		3000 (2875)#	8.5			
R1.8BLA-06 (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC22	A-4	2750	6.0	Electronic Control Unit: Fuji's Part No. 22611AA800 22611AB100		
	GF22		2875	6.8			
	GC22		2875	6.6			
	GF22		3000	7.2			
R1.8BLAA-06 (0.25/3.4/0.4)*1 (0.31/4.2/NA)*2	GC22		2750	6.6			
	GF22		2875	7.5			
	GC22		3000 (2875)#	7.3			
	GF22		3000	7.9			

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).
*1 Exhaust emissions standards at 50,000-mile point.
*2 Exhaust emissions standards at 100,000-mile point.

Date of Issue: November 5, 1993 Revisions:
1290

EO#A-2-89 (13)

Vehicle Models

Engine Family RFJ1.8VJGFEK

i) R1.8BLM, R1.8BLMA,
R1.8BLA, R1.8BLAA engine code

GC21: IMPREZA 4-door Sedan

GC22: IMPREZA 4-door Sedan LE
IMPREZA 4-door Sedan AWD LE

GC24: IMPREZA 4-door Sedan L
IMPREZA 4-door Sedan AWD L

GC25: IMPREZA 4-door Sedan LS
IMPREZA 4-door Sedan AWD LS

GF22: IMPREZA Wagon LE
IMPREZA Wagon AWD LE

GF24: IMPREZA Wagon L
IMPREZA Wagon AWD L

GF25: IMPREZA Wagon LS
IMPREZA Wagon AWD LS

ii) R1.8BLM-06, R1.8BLMA-06,
R1.8BLA-06, R1.8BLAA-06 engine code

GC21: IMPREZA 4-door Sedan

GC22: IMPREZA 4-door Sedan L
IMPREZA 4-door Sedan AWD L

GF22: IMPREZA Wagon L
IMPREZA Wagon AWD L

Issue Date: 5/31/'93
Revision Date: 017-11/5/'93