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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-49 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 1988 model-year Fuji Heavy Industries Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		isplacement s (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JFJ1.8V5HCV4	1.8	(109)	Oxidation Catalyst Three-Way Catalyst Oxygen Sensor Exhaust Gas Recirculation (Some Models) (Central Fuel Injection - Some Models) (Electronic Port Fuel Injection - Some Models, (On-Board Diagnostics)

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	Grams per mile
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
0.25	4.2	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 1960.1.5 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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) 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 15^{4}

day of July, 1987.

K. D. Drachand, Chief Mobile Source Division

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Mufacturer Fuji Heavy Indus	tries Ltd.	Engine FamilyJFJ1.8	V5HCV4
Evaporative FamilyKU		Engine Type но4	
		Liters (CID)1.8	liters (109)
ABBREVIATIONS	•	. •	
Ignition System	Exhaust Er	nissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	AIV-Air In DBC-Dual E EGR-Exhaus EIC-Electr FM-Engine GC-Oxidati OS-Oxygen HOS-Heated SPL-Smoke Throttle TOC-Trap C	Oxygen Sensor Puff Limiter or Delay xidizer, Continual xidizer, Periodical	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic
F System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	WUOC-Warm-	Way Catalyst Up Oxidation Catalyst -Up Three-Way Catalyt	Fuel Injection IC-Intercooler or Aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger
VEHICLE MODELS: AC4; 4-door Sedan AC5; 4 door Sedan 4WD AG4; 3-door AG5; 3-door 4WD AN4; Station Wagon AN5; Station Wagon 4WD AX4; XT AX7; XT 4WD			
Engine: Front X Mid.	Rea	ır	

Drive: FWD X RWD 4WD Full Time 4WD Part Time X

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anufactur	er Fuji Heavy	Industrie	s Ltd.	Engine Fa	mily JFJ1.8	V5HCV4	
iter (CID) 1.8 Liters	(109)		Eng. 1	Type HO4		
mission C	Control Sys. (Spe	cial Feat	ures) <u>o</u>	S, EGR, OC(1),	TWC(1), (CFI,	OBD)	,
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.		Catalyst Part No.
8V5CVSM	AC4 (DL) (7.0/7.7) AG4 (DL) (6.8/7.5) AC4 (GL) (7.0/7.7) AC4 (GL) (6.8/7.5) AN4 (DL) (7.5/8.2) AN4 (GL) (7.5/8.2) AC5 (8.3/9.1) AG5 (8.1/8.9) AN5 (DL) (8.5/9.4) AN5 (GL) (8.5/9.4)	М5	2500 2625 (2500)# 2625 2750 2875 (2750)# 2875	Distributor: Hitachi D4P86-03 Fuji's Part No22100AA440 Electronic Control Unit: Fuji's Part No. 22611AA391	No. 16114AA170	Fuji's Part	Rear:

e of Issue May 22, 1987 Revisions: 6/25/'87

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E.O. # A-1-49 19.8 8 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 2 of 5 Pas Ger Cars x Light-Duty Trucks Medium-Duty Vehicles Gas x Diesel Yanufacturer Fuji Heavy Industries Ltd. Engine Family JFJ1.8V5HCV4 Liter (CID) 1.8 Liters (109) Eng. Type HO4 Emission Control Sys. (Special Features) <u>os, egr, oc(1), twc(1), (cfl, obd)</u> Engine Vehicle Models Trans. Equiv. Ign. System Fuel System EGR Valve Catalyst (If Coded see Code Type Test (ECU) attachment) Weight EEC CFI Part No. Part No. Part No. Part No. (Dyno Hp) AC4 (DL) M5 .8V5CVSMA 2625 Distributor: Injector: Hitachi Fuji's Part (7.0/7.7)Hitachi Hitachi APDQ72-3 No. D4P86-03 RFB42-2 Front: AC4 (GL) 2625 Fuji's Part 20805AA120 (7.0/7.7)Fuji's Part Fuji's Part Rear: No. AG4 (DL) 14710AA241 20805AA150 No. No. (6.8/7.5)22100AA440 16114AA170 AG4 (GL) 2750 Electronic (6.8/7.5)Control Unit: (2625) #Fuji's Part AN4 (7.5/8.2)2750 No. 22611AA391 AC5 (8.3/9.1) 2875 AG5 (8.1/8.9) ANS (DL) (8.5/9.4)3000 ANS (GL) (8.5/9.4)

Comments: See page one for abbreviations and evaporative emission family identification.

Plear refer to manufacturer's HP list for correct dyno test HP settings based on model and entering.

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 May 22, 1987 Revisions: 6/25/'87

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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i (itu	rer Fuji Heavy	Industri	es Ltd.	Engine Fa	milyJFJ1.8	V5HCV4	
iter (CI	D) 1.8 Liters	(109)		Eng. '	Type HO4		
mission (Control Sys. (Spe	cial Feat	ures) <u>- O</u>	S, EGR, OC(1),	TWC(1), (CFI,	OBD)	
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	Catalyst Part No.
8V5CVSA	AC4 (DL) (7.0/7.7)	АЗ .	2625 (2500)#	Hitachi	Hitachi	Atsugi AEY78-14	Fuji's Part
-	AC4 (GL) (7.0/7.7) AG4 (DL) (6.8/7.5)		2625	Fuji's Part No.	Fuji's Part No. 16114AA170	Fuji's Part	Rear:
	AG4 (GL) (6.8/7.5)		2750 (2625)#				
	AN4 (7.5/8.2)		2750				
	AG5 (8.1/8.9)		2875 (2750)#	226 1 1AA391			
	AC5 (8.3/9.1) AN5 (8.5/9.4)		2875				
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1				-	!	,	

ease refer to manufacturer's HP list for correct dyno test HP settings based on model and ripment. 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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E.O. # A-2-49 19_8 & AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 4 of 5 Light-Duty Trucks ____ Medium-Duty Vehicles ____ Gas ___ Diesel Manufacturer Fuji Heavy Industries Ltd. Engine Family JFJ1.8V5HCV4 Liter (CID) 1.8 Liters (109) Eng. Type HO4 Emission Control Sys. (Special Features) CS, EGR, OC(1), TWC(1), (CFI, OBD) Engine Vehicle Models Trans. Equiv. .] Ign. System Fuel System EGR Valve Catalyst Code (If Coded see Type Test (ECU) attachment) Weight EEC CFI Part No. Part No. Part No. Part No. (Dyno Hp) 1.8V5CVSAA AC4 (DL) A3 2625 Distributor: Injector: Fuji's Part Atsugi (7.0/7.7)Hitachi AEY78-14 Hitachi No. AG4 (DL) D4P86-03 RFB42-2 Front: (6.8/7.5)Fuji's Part 20805AA120 Fuji's Part Fuji's Part No. Rear: AC4 (GL) 2750 No. 14710AA251 20805AA150 No. (7.0/7.7)(2625)#22100AA440 16114AA170 AC4 (GL-10) 2750 Electronic (7.0/7.7)Control Unit: AG4 (GL) Fuji's Part (6.8/7.5)No. AN4 (DL) 22511AA391 (7.5/8.2)AC5 (8.3/9.1) 2875 (2750)# AN4 (GL, GL-10) 2875 (7.5/8.2)AG5 (8.1/8.9) ANS (8.5/9.4) 3000 Comments: See page one for abbreviations and evaporative emission family identification. Pleas refer to manufacturer's HP list for correct dyno test HP settings based on model and

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

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ent. If two test weights are listed, the lower weight will be used for testing.

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1988	AIR	RESOURCES	BOARD	SUPPLEMENTAL	DATA	SHEET
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	Cars <u>×</u> Light					Gas <u>*</u> D	s of 5 lesel
Manufactu	rer <u>Fuji Heavy</u>	Industrie	s Ltd.	Engine Far	nilyJFJ1.8	BV5HCV4	
Liter (CII) 1.8 Liters	(109)		Eng.	Гуре НО4		
Emission (Control Sys. (Spe	cial Feat	ures)	os, OC(1), TW	C(1), (EFI, OE	BD)	
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 Part No.
J1.8V5CVMM	AX4 (DL) (6.2/6.8)	м5	2750 (2625)#		Injector: JECS 0448	None	Fuji's Part No. Front: 20805AA071 Rear: 20805AA150
	AX4 (GL) (6.2/6.8)		2750	D4P86-03 Fuji's Part No. `22100AA440 Electronic Control Unit: Fuji's Part	Fuji's Part No. 16600AA010		
-	AX7 (7.4/8.1)		3000 (2875)#				
J1 5CVMMA	AX4 (6.2/6.8)		2750				
	AX7 (7.4/8.1)		3000	No.			
J1.8V5CVMA	AX4 (6.2/6.8)	A4	2875	22611AA520			
J1.8V5CVMAA	AX4 (6.2/6.8)		2875				
Comments:	See page one for	abbrevia	tions and	evaporative em	nission family	identificat	ion.

Please refer to manufacturer's HP list for correct dyno test HP settings based on model and e pment. 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	May 22,	1987	Revisions:	6/25/187