(Page 1 of 2)

## 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	<u>Grams per mile</u>
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.

FUJI HEAVY INDUSTRIES LTD.

EXECUTIVE ORDER A-2-49 (Page 2 of 2)

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

Attachment 3

E.O. # A-2-49

198 8 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Evaporative FamilyKU	Engine Type HO4	Engine TypeHO4			
	Liters (CID) 1.8	liters (109)			
ABBREVIATIONS	. •				
Ignition System	Exhaust Emissions 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	AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control IM-Engine Modification OC-Oxidation Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel			
CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyt	Injection IC-Intercooler or Aftercoole MFI-Mechanical Fuel Injection OBD-On-Soard 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					

4WD Full Time \_\_\_\_\_ 4WD Part Time \_\_X

Drive: FWD <u>X</u> RWD

Engine: Front X Mid. \_\_\_\_\_ Rear \_\_\_\_\_

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•	1988 AIR RESOURCES	BOARD SUPPLEMENTAL DATA SHEET E.O. # A-2-49
ess er Cars	x Light-Duty Trucks	Medium-Duty Vehicles Gas _x Diesel
	Fuji Heavy Industries Ltd.	Engine Family JFJ1.8V5HCV4
iter (CID)	1.8 Liters (109)	Eng. Type H04
mission Contro	ol Sys. (Special Features) _	OS, EGR, OC(1), TWC(1), (CFI, OBD)

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Erigine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. <sup></sup> Test Weight	Ign. System (ECU) EEC Part No.	Fuel System CFI Part No.	EGR Valve Part Nc.	Catalyst Part No.
8V5CVSM	AC4 (DL) (7.0/7.7)	M5	2500	Distributor: Hitachi	Injector: Hitachi	Hitachi APDQ72-3	Fuji's Par No.
	AG4 (DL) (6.8/7.5)		2625 (2500)∦	D4P86-03 Fuji's Parc		Fuji's Part	Rear:
•	AC4 (GL) (7.0/7.7) 304 (GL) (6.8/7.5) AN4 (DL) (7.5/8:2)			No. 16114AA170	14710AA241	20805AA15(	
AN4 (GL) (7.5/8.2) AC5 (8.3/9.1) AG5 (8.1/8.9) AN5 (DL) (8.5/9.4)		2750	22611AA391				
			2875 (2750) <b>#</b>				
	AN5 (GL) (8.5/9.4)		2875				
ase. Infe	See page one for r to manufacture If two test weig #The model is te	r's HP li ghts are	st for con listed, th	rrect dyno test Ne lower weight	HP settings will be used	based on mod for testing	el and

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	19_8_8 AIR RESOURCES	BOARD SUPPLEMENTAL DAT	E.O. # A-2-49
as ger Cars	Light-Duty Trucks	Medium-Duty Vehicles	Page <u>2 of 5</u> Gas <u>x</u> Diesel
Manufacturer	Fuji Heavy Industries Ltd.	Engine Family	JFJ1.8V5HCV4
_iter (CID)	1.8 Liters (109)	Eng. Type	Н04
Emission Contro	1 Sys. (Special Features)	OS. EGR. OC(1). TWC(1).	(CFI, OBD)

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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.
.8V5CVSMA	AC4 (DL) (7.0/7.7) AC4 (GL)	MS	2625 2625	Distributor: Hitachi D4P86-03	Injector: Hitachi RFB42-2	Hitachi APDQ72-3 Fuji's Part	
,	(7.0/7.7) AG4 (DL) (6.8/7.5)			Fuj <b>i's</b> Parc No. 22100AA440	Fuji's Part No. 16114AA170	No. 14710AA241	Rear: 20805AA150
	AG4 (GL) (6.8/7.5)		2750 (2625)#	Electronic Control Unit: Fuji's Part			
	AN4 (7.5/8.2)		2750	No.			
	AC5 (8.3/9.1) AG5 (8.1/8.9) AN5 (DL) (8.5/9.4)		2875	22611AA391			
	AN5 (GL) (8.5/9.4)		3000				
lonments: lear ref ent.	See page one for er to manufacture If two test wei #The model is te	r's HP li ghts are	st for co. listed, th	rrect dyno tes he lower weign!	t HP settings t will be used	based on mod for testing	del and

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	ı	19_8 8	AIR RESOURCES	BOARD SUPPLEMENTAL	DATA SHEET		A-2-49
assenger Cars	<u>×</u> (	Light-	Duty Trucks	Medium-Duty Vehic	cles	Gas <u>x</u>	Page <u>3 of 5</u> Diesel
				Engine Family			
iter (CID)	1,8 L:	iters	(109)	Eng. Type			
mission Contro	l Sys.	(Spec	ial Features) -	CS, EGR, OC(1), TWC	(1), (CFI,	OBD)	······································

Code (If	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	(ECU)	Fuel System	EGR Valve	Catalyst
	(Dyno Hp)			EEC Part No.	CFI Part No.	Part No.	Part No.
8 <b>v5CVSA</b>	AC4 (DL) (7.0/7.7)	A3 <sup>-</sup>	2625 (2500)∦		Injector: Hitachi	Atsugi AEY78-14	Fuji's Part No.
AG4 (DL)	(7.0/7.7)		2625	D4P86-03 Fuji's Part No. `2210CAA440		Fuji's Part No. 14710AA251	Front: 20805AA120 Rear: 20805AA150
	AG4 (GL) (6.8/7.5)		2750 (2625)#				
	AN4 (7.5/8.2)		2750	Fuji's Part No.			
AC5 (	AG5 (8.1/8.9)		2875 (2750)#	22611AA391			
	AC5 (8.3/9.1) AN5 (8.5/9.4)		2875				
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ease refe	See page one for er to manufacture If two test weig #The model is te	r's HP 1: ahts are	st for con listed. th	rrect dyno tesi ne lower weight	t HP settings t will be used	based on mod for testing	del and
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•	19_8 & AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # $A-2-1$	
Passinger Cars	x Licht-Duty Trucks Medium-Dury Vehicler Gar Diseel	5
Manufacturer	Fuji Heavy Industries Ltd. Engine Family JFJ1.8V5HCV4	
Liter (CID)	1.8 Liters (109) Eng. Type HO4	·····
Emission Contro	Sys. (Special Features) CS, EGR, OC(1), TWC(1), (CFI, OBD)	

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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.
1.8V5CVSAA		A3	2625	Distributor: Hitachi D4P86-03	Injector: Hitachi RFB42-2		Fuji's Part No. Front: 20805AA120
	AC4 (GL) (7.0/7.7)		2750 (2625)∦	Fuji's Part No. `22100AA440	Fuji's Part No. 16114AA170		Rear:
	AC4 (GL-10) (7.0/7.7) AG4 (GL) (6.8/7.5) AN4 (DL) (7.5/8.2)		2750	Electronic Control Unit: Fuji's Part No. 22611AA391			·
	AC5 (8.3/9.1)		2875 (2750) <i>∜</i>				
	AN4 (GL, GL-10) (7.5/8.2) AG5 (8.1/8.9)		2875				
	AN5 (8.5/9.4)		3000				
							I
riear refe	See page one for in to manufacturer If two test weig #The model is ter	hts are l	st for cor listed, th	rect dyna test le lower weight	HP settings will be used	based on mod	lel and

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Date of Issue May 22, 1987 Revisions: 6/25/'87 9/9/'87 by R/C #88-6

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•	1988 AIR RESOURCES E	BOARD SUPPLEMENTAL DATA	E.O. # <u>A-2-49</u>
enger Cars	x Light-Duty Trucks	Medium-Duty Vehicles	Page <u>5 of 5</u> GasDiesel
Manufacturer	Fuji Heavy Industries Ltd.	Engine Family	
Liter (CID)	1.8 Liters (109)	Eng. Type	но4
Emission Contro	ol Sys. (Special Features)	OS, OC(1), TWC(1), (1	EFI, OBD)

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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 Part No.	Catalyst Part No.
J1.8V5CVMM	AX4 (DL) (6.2/6.8) AX4 (GL) (6.2/6.8) AX7 (7.4/8.1)	M5	2750 (2625)# 2750 3000 (2875)#	D4P86-03 Fuji's Part No. `22100AA440	Injector: JECS 0448 Fuji's Part No. 16600AA010		Fuji's Part No. Front: 20805AA071 Rear: 20805AA150
J1 SCVMMA	AX4 (6.2/6.8) AX7 (7.4/8.1)		2750 3000				
J1.8V5CVMA	AX4 (6.2/6.8)	A4	2875				
J1.8V5CVMAA	AX4 (6.2/6.8)		2875				
Please refer e `pment.	See page one for r to manufacturer If two test weig #The model is te ue <u>May 22, 19</u>	r's HP li ghts are ested at b	st for cor listed, th higher ETW	rrect dyno test ne lower weight	: HP settings l , will be used	based on mod for testing	lel and J.

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