State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-54 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 1989 model-year Fuji Heavy Industries Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	•	lacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KFJ1.8V5HCV5	1.8	(109)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst
			Oxidation Catalyst (Central Fuel Injection) (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	0.4

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	4.1	0.3		

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 "Maifunction 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 Exacutive 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 $\frac{27}{100}$ day of May, 1988.

K. D. Drachand, Chief Mobile Source Division

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Manuracture	r <u>ru]ı Heav</u>		tries Ltd.		-	KFJ1.8V5HCV5
Evaporative	Family	KU		Engine Ty	pe	но4
				Liters (C	CID)	1.8 Liters (109)
ABBREVIATION	NS			·		
Ignition Sys	stem		Exhaust Emis	sions Cont	rol System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard EM-Engine R Throttle TOC-Trap Or TOP-Trap Or DBC-Dual Bor OC-Oxidation Fuel System CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS AIP-Air In AIV-Air IN			AIP-Air Inje AIV-Air Inje EGR-Exhaust EIC-Electron (Diesel EM-Engine Mo SPL-Smoke Pu Throttle E TOC-Trap Oxi TOP-Trap Oxi DBC-Dual Bed OC-Oxidation TWC-Three-Wa WUOC-Warm-Up WUTWC-Warm-Up OS-Oxygen Se HOS-Heated Oxi	ction - Va Gas Recirc ic Injecti Only) dification ff Limiter elay dizer, Con dizer, Per Catalyst Catalyst y Catalyst Oxidation p Three-Wa nsor	elve culation con Control cor ctinual ciodical culture	EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber
VEHICLE MODI	ELS:					
AC4; 4-door AC5: 4-door AG4; 3-door AG5; 3-door AN4; Station AN5; Station	Sedan 4WD 4WD n Wagon					
Engine: Fro	ont <u>x</u>	_ Mid	Re	ar		
Drive: FWI	D <u>x</u>	RWD	4W	D Full Tim	ne	4WD Part Time x

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assenger C	ars x Light	-Duty 1	rucks	Medium-Dut	y Vehicles		
ianufacture	r <u>Fuji Heavy</u>	Industr	ies Ltd.	Engine F	emily KFJ	1,8V5HCV5	
iter (CID)	1.8 Liters	(109)		Eng.	Type HO4		
imission Co	ontrol Sys, (Spe	ecial F	eatures)	OS, EGR, C)C(1), TWC(1),	(CFI, OBD)	
	Vehicle Models (If Coded see attachment) (Dyno Hp)		1	(ECU) EI, ESAC	Fuel System CFI, OS Part No.	EGR Valve	Catalyst Part No.
k1.8V5CVSM	AC4 (DL) (7.0/7.7)	M5	1	Distributor: Hitachi D4P86-03	Injector: Hitachi RFB42-2	Hitachi APDQ72-3	Puji's Part
-	AC4 (GL) (7.0/7.7) AG4 (6.8/7.5)		2625	Fuji's Part No. 22100AA440 Electronic Control Unit: Fuji's Part No. 22611AA394	Fuji's Part No. 14	No.	Pront: 20805AA120 Rear: 20805AA150
	AN4 (DL) (7.5/8.2)		2750 (2625) #				
	AN4 (GL) (7.5/8.2) AC5 (8.3/9.1)		2750				
	AG5 (8.1/8.9)		2875 (2750)				
	AN5 (DL) (8.5/9.4)	_	2875				
	AN5 (GL) (8.5/9.4)		3000 (2875)				
	AK4 (GL) (7.7/8.5)		2750				
	AK5 (GL)	-	3000				

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.

Ĺ.	‡ The	model	is	tested	at	higher	ETW	in	accordance	with	40	CF R	86.	084-29	5(a)	(2).	

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(8.8/9.7)

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Longer Car	rs <u>x</u> Light-	Duty Tr	ucks	Medium-Duty	Vehic	cles	Gasx	Diesel
anufacturer	Fuji Heavy I	ndustri	es Ltd.	Engine Fa	mily .	KFJ1	.8V5HCV5	
iter (CID)	1.8 Liters (109)		Eng.	Type	H04		10 A
mission Con	trol Sys. (Spec	ial Fe	atures) _	OS, EGR, OC	(1),	TWC (1),	(CFI, OBD)	
	Vehicle Models (If Coded see attachment) (Dyno Hp)		Test	(ECU)	CF I	, 03	EGR Valve	Catalyst Part No.
(1.8V5CVSMA	AC4 (7.0/7.7) AG4 (DL) (6.8/7.5)	M5	2625	Distributor: Hitachi D4P86-03	Inject Hitac RFB4		Hitachi: APDQ72-3	Fuji's Part No. Front:
	AG4 (GL) (6.8/7.5) AN4 (DL) (7.5/8.2)			Fuji's Part No. 22100AA440	No.	# Part	No.	20805AA120 Rear: L 20805AA150
	AN4 (GL) (7.5/8.2) AC5 (8.3/9.1)		2875	Electronic Control Unit: Puji's Part No. 22611AA394				
	AG5 (8.1/8.9) AN5 (DL) (8.5/9.4)	_	2875					
	AN5 (GL) (8.5/9.4)		3000					
	AK4 (GL) (7.7/8.5)		2875 (2750)					
	AK5 (GL) (8.8/9.7)		3000					

Please refer to manufacturer's HP list for correct dyno test HP settings based on model and e ipment. 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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	1.8 Liters						- 117
mission Co	entrol Sys. (Spe	cial Fe	eatures)	OS, EGR, C)C(1), TWC(1),	(CFI, OBD)	
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	- 1	Ign. System (ECU) EI, ESAC Part No.	Fuel System CFI, OS Part No.	EGR Valve	Catalyst Part No.
(1.8V5CV8A	AC4 (7.0/7.7) AG4 (DL) (6.8/7.5)	λ3	2625	Distributor: Hitachi D4P86-03	Injector: Hitachi RFB42-2	Atsugi AEY78-14 Fuji's Part	Fuji's Part No. Front:
٠	AG4 (GL) (6.8/7.5)		2750 (2625) \$		Puji's Part No. 16114AA170	No. 14710AA251	Rear:
	AN4 (7.5/8.2) AC5 (8.3/9.1) AG5 (8.1/8.9)		2750	Electronic Control Unit: Fuji's Part			
-	AN5 (8.5/9.4)		3000 (2875) #	22611AA394			
	AK4 (GL) (7.7/8.5)		2750				
	AK5 (GL) (8.8/9.7)		3000 (2875)				
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#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).

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lanufacturer	Fuji Heavy I	ndustri	es Ltd.	Engine Fa	mily KPJ1	.8V5HCV5	
iter (CID)	1.8 Liters (109)		Eng.	Type H04		
Emission Con	trol Sys. (Spec	ial Fea	tures) _	OS, EGR, OC	(1), TWC(1),	(CFI, OBD)	
	Vehicle Models (If Coded see attachment) (Dyno Hp)	Type	Test	(ECU)	CFI, OS		Catalyst Part No.
k1.8v5cvsaa	(7.0/7.7)	А3	1	Hitachi	Injector: Hitachi RFB42-2	AEY78-14	Fuji's Part No. Front:
i	AC4 (GL) (7.0/7.7) AG4 (DL) (6.8/7.5)		2750 (2625) #	Fuji's Part No. 22100AA440	Fuji's Part No. 16114AA170		20805AA120 Rear: 20805AA150
	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. 22611AA394			
•	AN4 (GL, GL-16 (7.5/8.2) AC5 (8.3/9.1) AG5 (8.1/8.9)	}	2875				·
	ANS (8.5/9.4)		3000				
	AX4 (GL, GL-1 (7.7/8.5)	0)	2875				
	AK5 (GL) (8.8/9.7)		3000				

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.

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

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