## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-2-12 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 Order G-45-3, and G-45-4;

IT IS ORDERED AND RESOLVED: That 1982 model-year Fuji Heavy Industries Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars.

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)  Air Injection - Valve Exhaust Gas Recirculation Three Way Catalyst with Closed Loop		
CFJ1.8V2FAA2	109 (1.8)			

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1982 model-year vehicles:

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
0.20	2.6	0.6

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 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 in El Monte, California this 290 day of June, 1981.

K. D. Drachand, Chief Mobile Source Control Division

# 1982 ATR RESOURCES ROARD SUPPLEMENTAL DATA SHEET

	1302	AIN NESUU	KCL3	BOARD SUFFEENENTAL L	MIN SHEET	
Manufacturer	Fuji H Indust	eavy ries Ltd.	!	Executive Order No.	A-2-12	Page 1
Engine Family	CFJ1.	8V2FAA2		Evaporative Family _	RU	·
			1	Engine CID (Liters)	109 (1.8)	
ABBREVIATIONS	3					
Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard  Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor VV-Variable Venturi			Exhaust Emissions Control System AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System TR-Thermal Reactor TWC-Three Way Catalyst System		Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber  MFI-Mechanical Fuel Injection TC-Turbocharged	
	Vehicle	Models				
•	-AF4 (SU	BARU 1800	2-do	r Hatchback) (1)		
• • •	√AB4 (SU	BARU 1800	4-doc	or Sedan) (1)		
•	-AW4 (SU	BARU 1800	Hardi	top) (1)		
	AF5 (SU	BARU 1800	2-doc	or Hatchback 4WD) (2	)	
	AT5 (SU	BARU 1800	4WD (	Open M.P.V. "BRAT")	(2)	
١	AM4 (SU	BARU 1800	Stati	ion Wagon) (1)		

DRIVE SYSTEM:

∠AM5 (SUBARU 1800 Station Wagon 4WD) (2)

(1) Front engine/Front transaxle drive(2) Front engine/Front transaxle and rear axle drive

•					Pa	age 1A	
	1982 A	IR RESOU	RCES BOA	RD SUPPLEMENTA	AL DATA SHEET		
<u>X</u> Pass	enger Cars Li	ght-Duty	Trucks	Medium-Du	ıty Vehicles	X Gas	Diesel
Manu	facturer Fuji Hea	vy Indus	tries Lt	d	E.O.	#A-2-12	
Engi	ne Family <u>CFJl.8</u>	V2FAA2		CID (liter)	- Type 109	(1.8) HO4	
_	(Special Features)						
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Test	Ign. System CA, VA, EI Mfgr. Part No.	Fuel System 1-2V Mfgr. Part No.	EGR Valve	Label Ident. Part No.
C1.8V2-MA	AF4 AB4, AW4 AB4, AW4	. M5	2375 2500	Nippondenso 100291-0080	Hitachi CDP306-14	APDQ72-3	See page 1B
C1.8V2-WA	AF5, AT5	M4		D4R80-03	DCP306-15	APDQ72-6 AEY78-11	
C1.8V2AA	AF4, AB4, AW4	А3		100291-0080	DCP306-16	APDQ72-4	See Page 10
C1.8V2-MB	AM4	M4 M5	2625		DCP306-15	APDQ72-3	See page 1B
C1.8V2-MBA		,,,,					
							†
C1.8V2-WB	AM5	M4		D4R80-03		APDQ72-6 AEY78-11	
C1.8V2-WBA			2750			, ALTO TI	
C1.8V2-AB	AM4	А3	2625	100291-0080	DCP306-16	APDQ72-4	See page 1C

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.

\*Add 10% to dyno test HP for air conditioning usage.

Date of Issue - Revisions:



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# VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY-CFJ1.8V2FAA2 (109 CID) AIV/TWC+EGS/EGR EVAPORATIVE EMISSION FAMILY-RU

# CATALYST

ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS MAKE IDLE ADJUSTMENT WITH ENGINE AT NORMAL OPERATING TEMPERATURES AND LIGHTS OFF.

IDLE SPEED ..... 700 ± 100 RPM IN NEUTRAL IDLE MIXTURE ..... BELOW 0.5 % CO ADJUST WITHOUT SECONDARY AIR-WITH AIR SUCTION HOSE BLOCKED.

IGNITION TIMING ···· 8 ± 2 DEGREES BTDC AT 700 RPM
ADJUST WITH VACUUM LINE DISCONNECTED FROM DISTRIBUTOR.
VALVE LASH ····· 0.010 ± 0.001 IN. INTAKE VALVE
0.014 ± 0.001 IN. EXHAUST VALVE

ADJUST WITH ENGINE COLD.

ABOVE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS ARE APPLICALBE TO ALL ALTITUDE. IF THE MODIFICATIONS ARE PERFORMED TO ENSURE COMPLIANCE WITH EMISSION STANDARDS AT HIGH-ALTITUDE, REFER TO PAGES TITLED "MAINTENANCE INSTRUCTION AND FUNCTION OF EMISSION CONTROL SYSTEMS" IN OWNER'S MANUAL.

THIS VEHICLE REQUIRES PERIODIC MAINTENANCE. REFER TO OWNER'S MANUAL OR SERVICE MANUAL.

THIS VEHICLE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW MOTOR VEHICLES AND ALSO COMPLIES WITH STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW PASSENGER CARS WHEN SOLD IN THE STATE OF CALIFORNIA.

THE MODIFICATIONS INDICATED IN OWNER'S MANUAL ARE!
NECESSARY TO ENSURE EMISSION CONTROL COMPLIANCE WITH U.S.
EPA REGULATION AT HIGH-ALTITUDE WHEN THIS VEHICLE IS SOLD FOR PRINCIPAL USE AT HIGH-ALTITUDE.

👽 FUJI HEAVY INDUSTRIES LTD. JAPAN

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### VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY-CFJ1.8V2FAA2 (109 CID) AIY/TWC+EGS/EGR EVAPORATIVE EMISSION FAMILY-RU

## CATALYST

ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS MAKE IDLE ADJUSTMENT WITH ENGINE AT NORMAL OPERATING TEMPERATURES AND LIGHTS OFF.

IDLE SPEED ..... 800 ± 100 RPM IN "N" OR "P" POSITION IDLE MIXTURE .... BELOW 0.5 % CO

ADJUST WITHOUT SECONDARY AIR-WITH AIR SUCTION HOSE

ADJUST WITHOUT SECONDARY AIR-WITH AIR SUCTION HOSE BLOCKED.

IGNITION TIMING ···· 8 ± 2 DEGREES BTDC AT 800 RPM
ADJUST WITH VACUUM LINE DISCONNECTED FROM DISTRIBUTOR.
VALVE LASH ···· 0.010 ± 0.001 IN. INTAKE VALVE
0.014 ± 0.001 IN. EXHAUST VALVE

ADJUST WITH ENGINE COLD.

ABOVE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS ARE APPLICALBE TO ALL ALTITUDE. IF THE MODIFICATIONS ARE PERFORMED TO ENSURE COMPLIANCE WITH EMISSION STANDARDS AT HIGH-ALTITUDE, REFER TO PAGES TITLED "MAINTENANCE INSTRUCTION AND FUNCTION OF EMISSION CONTROL SYSTEMS" IN OWNER'S MANUAL.

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THIS VEHICLE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW MOTOR VEHICLES AND ALSO COMPLIES WITH STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW PASSENGER CARS WHEN SOLD IN THE STATE OF CALIFORNIA.

THE MODIFICATIONS INDICATED IN OWNER'S MANUAL ARE NECESSARY TO ENSURE EMISSION CONTROL COMPLIANCE WITH U.S. EPA REGULATION AT HIGH-ALTITUDE WHEN THIS VEHICLE IS SOLD FOR PRINCIPAL USE AT HIGH-ALTITUDE.

FUJI HEAVY INDUSTRIES LTD. JAPAN