

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-10
Relating to Certification of New Motor Vehicles

FUJI HEAVY INDUSTRIES LTD.

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 Fuji Heavy Industries, Ltd. exhaust emission control systems are certified as described below for 1981 model-year gasoline-powered passenger cars.

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
BFJ1.8V2FA9	109 (1.8)	Exhaust Gas Recirculation Three Way Catalyst with Closed Loop

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

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1981 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
BFJ1.8V2FA9	0.14	2.4	0.5

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", amended June 26, 1980.

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.

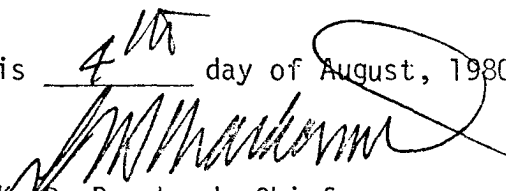
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That Fuji Heavy Industries Ltd. has provided to the Executive Officer 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 at El Monte, California this 4th day of August, 1980.


K. D. Drachand, Chief
Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Fuji Heavy Industries, Ltd. Executive Order No. A-2-10 Page 1
 Engine Family BFJ1.8V2FA9 Evaporative Family SU
 ABBREVIATIONS Engine CID (Liters) 109 (1.8)

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, DI, 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

Engine Type

HO-Horizontally Opposed

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection
 DI-Diesel Injection
 EFI-Electronic Fuel Injection
 MFI-Mechanical Fuel Injection
 TC-Turbocharged

Vehicle Models

AF4 (SUBARU 1800 2-door Hatchback) ✓
 AB4 (SUBARU 1800 4-door Sedan) ✓
 AW4 (SUBARU 1800 Hardtop) ✓
 AM4 (SUBARU 1800 Station Wagon) ✓
 AF5 (SUBARU 1800 2-door Hatchback 4WD)
 AM5 (SUBARU 1800 Station Wagon 4WD) ✓
 AR5 (SUBARU 1800 4WD Open M.P.V. "BRAT") ✓

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars Light-Duty Trucks Medium-Duty Vehicles Gas Diesel

Manufacturer Fuji Heavy Industries, Ltd. Page 1A

Engine Family BFJ1.8V2FA9 Engine Code _____

ECS (Special Features) EGR, TWC/CL CID (Liter)-Type 109 (1.8) 4-HO

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System CA, VA, EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Label Ident. Part No.
B1.8-M B1.8-M-005 ⁽³⁾ B1.8-M-006 ⁽⁴⁾ B1.8-M-007 ⁽⁵⁾	AF4, AB4, AW4 AM4	M-4 M-5	2375 2500	Nippondenso 029100-7220 or 420857332	Hitachi DCP306-12	APDQ72-3 (Hitachi) or AEY78-8 (Atsugi)	See Page 1B
B1.8-W B1.8-W-005 ⁽³⁾ B1.8-W-006 ⁽⁴⁾ B1.8-W-007 ⁽⁵⁾	AF5 AM5	M-4	2625	Hitachi D4R80-03 or 429878110		APDQ72-6 (Hitachi) AEY78-11 (Atsugi)	
B1.8-WB B1.8-WB-007 ⁽⁵⁾ B1.8-WB-005 ⁽³⁾	AR5		2500		Hitachi DCP306-13		
B1.8-A, B1.8-A-001 ⁽¹⁾ B1.8-A-007 ⁽⁵⁾	AB4, AW4 AF4 AM4	A-3	2375 2625	Nippondenso 029100-7220 or 420857332	Hitachi DCP306-12		
B1.8MF ⁽²⁾ B1.8-MF-005 ⁽³⁾ B1.8-MF-006 ⁽⁴⁾ B1.8-MF-007 ⁽⁵⁾	AF4, AB4, AW4	M-5	2375	Nippondenso 029100-7210	Hitachi DCP306-12	APDQ72-3 or AEY78-8	

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 - August 4, 1980

- (1) Added per running change 81-1.
- (2) Added per running change 81-2.
- (3) Added per running change/field fix 81-5.
- (4) Added per running change/field fix 81-6.
- (5) Added per running change/field fix 81-7.

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1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Fuji Heavy Industries Ltd. Executive Order No. A-2-10 Page 1B

VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY-BFJ1.8V2FA9 (109 CID) TWC/EGR
EVAPORATIVE FAMILY-SU

CATALYST

ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS

MAKE IDLE ADJUSTMENT WITH ENGINE NORMAL OPERATING TEMPERATURES
AND LIGHTS OFF.

IDLE SPEED 800 ± 100 RPM IN "N" OR "P" POSITION

IDLE MIXTURE BELOW 0.5 % CO

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.

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

THIS VEHICLE CONFORMS U.S. EPA REGULATIONS APPLICABLE TO 1981 MODEL
YEAR NEW MOTOR VEHICLES AND ALSO COMPLIES WITH STATE OF CALIFORNIA
REGULATIONS APPLICABLE TO 1981 MODEL YEAR NEW PASSENGER CARS WHEN
SOLD IN THE STATE OF CALIFORNIA.

COMPLIANCE DEMONSTRATED BELOW 4000 FEET.



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VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY-BFJ1.8V2FA9 (109 CID) TWC/EGR
EVAPORATIVE FAMILY-SU

CATALYST

ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS

MAKE IDLE ADJUSTMENT WITH ENGINE NORMAL OPERATING TEMPERATURES
AND LIGHTS OFF.

IDLE SPEED 700 ± 100 RPM IN NEUTRAL

IDLE MIXTURE BELOW 0.5 % CO

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.

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

THIS VEHICLE CONFORMS U.S. EPA REGULATIONS APPLICABLE TO 1981 MODEL
YEAR NEW MOTOR VEHICLES AND ALSO COMPLIES WITH STATE OF CALIFORNIA
REGULATIONS APPLICABLE TO 1981 MODEL YEAR NEW PASSENGER CARS WHEN
SOLD IN THE STATE OF CALIFORNIA.

COMPLIANCE DEMONSTRATED BELOW 4000 FEET.



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