

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-2-9
Relating to Certification of New Motor Vehicles

FUJI HEAVY INDUSTRIES, LIMITED

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 vehicles.

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
BFJ1.6V2FAX	97 (1.6)	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>
BFJ1.6V2FAX	0.29	2.4	0.4

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

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Engine Family BFJ1.6V2FAX Evaporative Family SU

ABBREVIATIONS

Engine CID (Liters) 97 (1.6)

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

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
 DI-Diesel Injection
 EFI-Electronic Fuel Injection
 MFI-Mechanical Fuel Injection
 TC-Turbocharged

Fuel System

CFI, DI, EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

Engine Type

H0 - Horizontally Opposed

Vehicle Models

AF2 (SUBARU 1600 2-door Hatchback)
 AB2 (SUBARU 1600 4-door Sedan)
 AW2 (SUBARU 1600 Hardtop)

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E.O. #A-2-9

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

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Engine Family BFJ1. 6V2FAX

Engine Code _____

ECS (Special Features) TWC/CL, EGR

CID (Liters)-Type 97 (1.6) 4-H0

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Test Weight Class	Ign. System CA, VA, EI Mfgr. Part No.	Fuel System 1 - 2V Mfgr. Part No.	EGR Valve Part No.	Label Ident.
B1.6-M	AF2	M-4	2250	Nippondenso 029100- 7210	Hitachi DCP306-11	APDQ 72-3 (Hitachi) or AEY78-8 (Atsugi)	See Page 1B
B1.6-M-005 ⁽¹⁾	AB2		2375				
B1.6-M-006 ⁽²⁾	AW2	M-5					
B1.6-M-007 ⁽³⁾	AF2 AB2 AW2						

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.

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

Date of Issue - August 4, 1980

(1) Added per running change/field fix 81-5.

(2) Added per running change/field fix 81-6.

(3) Added per running change/field fix 81-7.

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VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY-BFJL.6V2FAX (97 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 \pm 100 RPM IN NEUTRAL

IDLE MIXTURE BELOW 0.5 % CO

IGNITION TIMING .. 8 \pm 2 DEGREES BTDC AT 700 RPM

ADJUST WITH VACUUM LINE DISCONNECTED FROM DISTRIBUTOR.

VALVE LASH 0.010 \pm 0.001 IN. INTAKE VALVE

0.014 \pm 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 TO 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.



FUJI HEAVY INDUSTRIES LTD.