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.

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
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:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
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

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Fuji Heavy Industries Ltd Executive Order No. A-2-9 Page 1

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
HO - Horizontally Opposed

Vehicle Models

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

E.O. #A-2-9

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Fuji Heavy Industries Ltd. Page 1A

Engine Family BFJ1. 6V2FAX Engine Code

ECS (Special Features) TWC/CL, EGR CID (Liters)-Type 97 (1.6) 4-HO

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 B1.6-M-005(1) B1.6-M-006(2) B1.6-M-007(3)	AF2 AB2 AW2	M-4	2250 2375	Nippondenso 029100-7210	Hitachi DCP306-11	APDQ 72-3 (Hitachi) or AEY78-8 (Atsugi)	See Page 1B
	AF2 AB2 AW2	M-5					

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.

051280

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Fuji Heavy Industries Ltd. Executive Order No. A-2-9 Page 1B

VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY-BFJ1.6V2FAX (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 ± 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 NAMUAL.

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.

051380