State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-88
Relating to Certification of New Motor Vehicles

HONDA MOTOR CO., 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 Honda Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KHN1.5V5F2CO	1.5 (91)	Exhaust Gas Recirculation (Automatic Transmission Only) Three-Way Catalyst Oxygen Sensor (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 (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.39	7.0	0.4

The following are the certification emission values for this engine family:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.15	2.8	0.2

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 "Malfunction 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 Executive Order must conform to all apqlicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 22nd day of August, 1988.

K. D. Drachand, Chief
Mobile Source Division

E.O. # A-23-68

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer HONDA

Engine Family KHN1.5V5F2C0

Evaporative Family 89FD

Engine Type I - 4

Liters (CID) 1.5 (91)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

CFI, EPFI, MPFI, SFI,
DID, DIP, HOS, OS
nV-nVenturi Carburetor
VV-Variable Venturi Carburetor

Exhaust Emissions Control System

AIP-Air Injection - Pump
AIV-Air Injection - Valve
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control (Diesel Only)
EM-Engine Modification
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
DBC-Dual Bed Catalyst
OC-Oxidation Catalyst
TWC-Three-way Catalyst
WUOC-Warm-Up Oxidation Catalyst
WUTWC-Warm-Up Three-Way Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
EPFI-Electronic Port Fuel Injection
MPFI-Mechanical Port Fuel Injection
SFI-Sequential Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
TC-Turbocharger
SC-Supercharger
IC-Intercooler or Aftercooler
CCV-Combustion Chamber Valve
OBD-On-Board Diagnostics

VEHICLE MODELS:

Civic CRX DX - Manual/Automatic Transmission
Civic HB DX - Manual/Automatic Transmission
Civic Sedan DX - Automatic Transmission
Civic Sedan LX - Automatic Transmission
Civic Wagon - Automatic Transmission

Engine : Front X Mid. ____ Rear ____

Drive : FWD X RWD ____ 4WD Full Time ____ 4WD Part Time ____

E.O. # A-23-68

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer HONDA Engine Family KHN1.5V5F2C0

Liter (CID) 1.5 (91) Engine Type I - 4

Emission Control Sys. (Special Features) OS,TWC(CFI,OBD),EGR(Automatic Trans. only)

Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. (Vendor's)	Fuel System Part No. (Vendor's)	EGR Valve Part No. (Vendor's)	Catalyst Part No. (Vendor's)
K21 K21/1	Civic CRX DX Civic HB DX	M5	2375	EI & ESAC Distributor: 30100-PM5 -A031(TD-01U) ECU: 37820-PM5 -L070 (37820-PM5 -L07)	CFI ECU: 37820-PM5 -L070 (37820-PM5 -L07)	N/A	18150-PM5 -L011(HDB) 18150-PM5 -L021(HDB)
K23	Civic CRX DX	L4	2375	EI & ESAC Distributor: 30100-PM5 -A031(TD-01U) ECU: 37820-PM5 -L570 (37820-PM5 -L57)	CFI ECU: 37820-PM5 -L570 (37820-PM5 -L57)	18170-PM5 -L510(IOS)	
	Civic HB DX Civic Sadan DX Civic Sedan LX		2500				
	Civic Wagon		2625				
K23/1	Civic CRX DX Civic HB DX Civic Sedan DX		2500				
	Civic Sedan LX Civic Wagon		2625				

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.

*: Please refer to page 08-1 in 1989 Application.

Date of Issued 05/31/88 Revisions:

080187

E.O. # A-23-68

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer HONDA Engine Family KHN1.5V5F2C0

Liter (CID) 1.5 (91) Engine Type I - 4

Emission Control Sys. (Special Features) OS,TWC(CFI,OBD),EGR(Automatic Trans. only)

Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. (Vendor's)	Fuel System Part No. (Vendor's)	EGR Valve Part No. (Vendor's)	Catalyst Part No. (Vendor's)
K21-14 K21/1-14	Civic CRX DX Civic HB DX	M5	2375	EI & ESAC Distributor: 30100-PM5 -A041(TD-01U) ECU: 37820-PM5 -L080 (37820-PM5 -L080)	CFI ECU: 37820-PM5 -L080 (37820-PM5 -L080)	N/A	18150-PM5 -L012(HDB) 18150-PM5 -L012 (7XXXXS) 18150-PM5 -L022(HDB)
K23-14	Civic CRX DX	L4	2375	EI & ESAC Distributor: 30100-PM5 -A041(TD-01U) ECU: 37820-PM5 -L580 (37820-PM5 -L580)	CFI ECU: 37820-PM5 -L580 (37820-PM5 -L580)	18710-PM5 -L511(10S)	
	Civic HB DX Civic Sadan DX Civic Sedan LX		2500				
	Civic Wagon		2625				
K23/1-14	Civic CRX DX Civic HB DX Civic Sedan DX		2500				
	Civic Sedan LX Civic Wagon		2625				

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.

*: Please refer to page 08-1 in 1989 Application.

Date of Issued 02/06/89 Revisions: 06/23/89 (P/N update)

080187

E.O. # A-23-68

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer HONDA Engine Family KHN1.5V5F2C0

Liter (CID) 1.5 (91) Engine Type I - 4

Emission Control Sys. (Special Features) OS,TWC(CFI,OBD),EGR(Automatic Trans. only)

Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. (Vendor's)	Fuel System Part No. (Vendor's)	EGR Valve Part No. (Vendor's)	Catalyst Part No. (Vendor's)
K23-35	Civic CRX DX Civic HB DX Civic Sadan DX Civic Sedan LX Civic Wagon	L4	2375 2500 2625	EI & ESAC Distributor: 30100-PM5 -A041(TD-01U) ECU: 37820-PM5 -L571 (37820-PM5 -L57)	CFI ECU: 37820-PM5 -L571 (37820-PM5 -L57)	18710-PM5 -L511(10S)	18150-PM5 -L012(HDB) 18150-PM5 -L012 (7XXXXS) 18150-PM5 -L022(HDB)
K23/1-35	Civic CRX DX Civic HB DX Civic Sedan DX Civic Sedan LX Civic Wagon		2500 2625				

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.

*: Please refer to page 08-1 in 1989 Application.

Date of Issued 10/12/89 Revisions:

E.O. # A-23-68

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer HONDA Engine Family KHN1.5V5F2C0

Liter (CID) 1.5 (91) Engine Type I - 4

Emission Control Sys. (Special Features) OS,TWC(CFI,OBD),EGR(Automatic Trans. only)

Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No. (Vendor's)	Fuel System Part No. (Vendor's)	EGR Valve Part No. (Vendor's)	Catalyst Part No. (Vendor's)
K21-25 K21/1-25	Civic CRX DX Civic HB DX	M5	2375	EI & ESAC Distributor: 30100-PM5 -A052(TD-01U) ECU: 37820-PM5 -L080 (37820-PM5 -L080)	CFI ECU: 37820-PM5 -L080 (37820-PM5 -L080)	N/A	18150-PM5 -L050(HDB) 18150-PM5 -L060(HDB)
K23-25 K23/1-25	Civic CRX DX	L4	2375	EI & ESAC Distributor: 30100-PM5 -A052(TD-01U) ECU: 37820-PM5 -L580 (37820-PM5 -L580)	CFI ECU: 37820-PM5 -L580 (37820-PM5 -L580)	18710-PM5 -L511(10S)	
	Civic HB DX Civic Sadan DX Civic Sedan LX		2500				
	Civic Wagon		2625				
	Civic CRX DX Civic HB DX Civic Sedan DX		2500				
	Civic Sedan LX Civic Wagon		2625				

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.

*: Please refer to page 08-1 in 1989 Application.

Date of Issued 11/24/89 Revisions: