

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-68  
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:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
KHN1.5V5F2C0	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:

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.39	7.0	0.4

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

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
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 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 22<sup>nd</sup> day of August, 1988.

  
K. D. Drachand, Chief  
Mobile Source Division

## 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

<u>Ignition System</u>	<u>Exhaust Emissions Control System</u>	<u>Special Features</u>
CA-Centrifugal Advance	AIP-Air Injection - Pump	CFI-Central Fuel Injection or Throttle Body Injection
ECU-Electronic Control Unit	AIV-Air Injection - Valve	EPFI-Electronic Port Fuel Injection
EI-Electronic Ignition	EGR-Exhaust Gas Recirculation	MPFI-Mechanical Port Fuel Injection
ESAC-Electronic Spark Advance Control	EIC-Electronic Injection Control (Diesel Only)	SFI-Sequential Fuel Injection
VA-Vacuum Advance	EM-Engine Modification	DID-Diesel Injection-Direct
VR-Vacuum Retard	SPL-Smoke Puff Limiter or Throttle Delay	DIP-Diesel Injection-Prechamber
	TOC-Trap Oxidizer, Continual	TC-Turbocharger
	TOP-Trap Oxidizer, Periodical	SC-Supercharger
	DBC-Dual Bed Catalyst	IC-Intercooler or Aftercooler
	OC-Oxidation Catalyst	CCV-Combustion Chamber Valve
	TWC-Three-way Catalyst	OBD-On-Board Diagnostics
	WUOC-Warm-Up Oxidation Catalyst	
	WUTWC-Warm-Up Three-Way Catalyst	
	OS-Oxygen Sensor	
	HOS-Heated Oxygen Sensor	

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

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 \_\_\_\_\_

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(10S)	
	Civic HB DX Civic Sedan DX Civic Sedan LX		2500				
	Civic Wagon		2625				
K23/1	Civic CRX DX Civic HB DX Civic Sedan DX	L4	2500	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(10S)	
	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:

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 (7XXXXXS)  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 Sedan 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/W update)

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars X Light-Duty Trucks      Medium-Duty Vehicles      Gas X Diesel       
 Manufacturer HONDA Engine Family KHN1.5V5F2CO  
 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	L4	2375	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)
	Civic HB DX		2500				18150-PM5 -L012 (7XXXXS)
	Civic Sedan DX		2625				18150-PM5 -L022(HDB)
	Civic Sedan LX						
K23/1-35	Civic Wagon	L4	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 (7XXXXS)
	Civic CRX DX		2500				18150-PM5 -L022(HDB)
	Civic HB DX		2625				18150-PM5 -L012 (7XXXXS)
	Civic Sedan DX						
K23/1-35	Civic Sedan LX	L4	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 (7XXXXS)
	Civic Wagon						18150-PM5 -L022(HDB)

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:

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-23-68

Page 2.5

Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Gas  Diesel   
 Manufacturer HONDA Engine Family KHN1.5V5F2C0  
 Liter (CID) 1.5 (91) Engine Type I - 4  
 Emission Control Sys. (Special Features) OS,TWC(CFI,OB),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	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 Sedan DX Civic Sedan LX		2500				
	Civic Wagon		2625				
	Civic CRX DX Civic HB DX Civic Sedan DX		2500				
K23/1-25	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: