

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-203  
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year Honda Motor Co., Ltd. exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: VHN2.2VJG2EK Displacement: 2.2 Liters (132 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Warm Up Three Way Catalytic Converter
- Three Way Catalytic Converter
- Heated Oxygen Sensors (Two)
- Exhaust Gas Recirculation
- Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Organic Gas</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Organic Gas</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.046	0.7	0.1	0.001	4.0
100,000	0.052	0.8	0.1	0.001	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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 provisions (Title 13, California Code of Regulations, 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 27<sup>th</sup> day of August 1996.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-23-203

Page 1 of 1

Manufacturer: HONDA  
 Exh Engine Family: VHN2.2VJG2EK  
 All Eng Codes in Eng Fam: CA X 49S \_\_\_ 50S \_\_\_ AB965 \_\_\_  
 Exh std: CA Tier-1 \_\_\_ TLEV X LEV \_\_\_ ULEV \_\_\_ ZEV \_\_\_; US EPA Tier-1 \_\_\_  
 In-Use Exh Std: Full In Use X Alt In Use \_\_\_  
 EVAP Engine Family: VHN1100BYMAP  
 Evap Std.: 50K X Useful Life with R/L \_\_\_  
 Veh Class(es): PC X LDT1 \_\_\_ LDT2 \_\_\_ MDV1 \_\_\_ MDV2 \_\_\_ MDV3 \_\_\_ MDV4 \_\_\_ MDV5 \_\_\_  
 Single Cert Std for Multi-Class Eng Fam: N/A  
 Fuel Type(s): Dedicated X Flex-Fuel \_\_\_ Dual-Fuel \_\_\_ Bi-Fuel \_\_\_ Gasoline X  
 Diesel \_\_\_ CNG \_\_\_ LNG \_\_\_ LPG \_\_\_ M85 \_\_\_ Other \_\_\_  
 Emiss Test Fuel(s): Indo \_\_\_ Ph2 X CNG \_\_\_ LPG \_\_\_ M85 \_\_\_ Other \_\_\_  
 Diesel: 13 CCR 2282 \_\_\_ 40 CFR 86.113-90 \_\_\_ 40 CFR 86.113-94 \_\_\_  
 Service Accum: Std AMA \_\_\_ Mod AMA X Mfr ADP \_\_\_ Other \_\_\_  
 NMOG Test Procedure: N/A X Std \_\_\_ Equip \_\_\_ R/L Test Proc: SHED \_\_\_ Pt Source \_\_\_  
 Hybrid: Type A \_\_\_ B \_\_\_ C \_\_\_, APU Cycle: \_\_\_  
 Engine Configuration: L-4 Displacement: 2.2 Liters 132 Cubic Inches  
 Valves per Cylinder: 4 Rated HP: 130/5300 RPM  
 Engine: Front X Mid \_\_\_ Rear \_\_\_ Drive: FWD X RWD \_\_\_ 4WD-FT \_\_\_ 4WD-PT \_\_\_  
 Exhaust ECS: WUTWC/TWC/HO2S(2)/EGR/SFI

Engine Code	Vehicle Models	Trans.	ETW	DPA	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
VNN1/1 (CA)	Accord LX Sedan	M5	3250	7.2	EI Distributor: TD-76U	EGR Valve: 11L	XP, XS
	Accord SE Sedan				ECM: 37820-POJ-L02		
VNN3/1 (CA)	Accord LX Sedan	L4	3250	7.2	EI Distributor: TD-76U		
	Accord SE Sedan				PCM: 37820-POJ-L52		

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 Exh std: CA Tier-1 \_\_\_ TLEV X LEV \_\_\_ ULEV \_\_\_ ZEV \_\_\_; US EPA Tier-1 \_\_\_  
 In-Use Exh Std: Full In Use X Alt In Use \_\_\_  
 EVAP Engine Family: VHN1100BYMAP  
 Evap Std.: 50K X Useful Life with R/L \_\_\_  
 Veh Class(es): PC X LDT1 \_\_\_ LDT2 \_\_\_ MDV1 \_\_\_ MDV2 \_\_\_ MDV3 \_\_\_ MDV4 \_\_\_ MDV5 \_\_\_  
 Single Cert Std for Multi-Class Eng Fam: N/A  
 Fuel Type(s): Dedicated X Flex-Fuel \_\_\_ Dual-Fuel \_\_\_ Bi-Fuel \_\_\_ Gasoline X  
 Diesel \_\_\_ CNG \_\_\_ LNG \_\_\_ LPG \_\_\_ M85 \_\_\_ Other \_\_\_  
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 NMOG Test Procedure: N/A X Std \_\_\_ Equiv \_\_\_ R/L Test Proc: SHED \_\_\_ Pt Source \_\_\_  
 Hybrid: Type A \_\_\_ B \_\_\_ C \_\_\_, APU Cycle: \_\_\_  
 Engine Configuration: L-4 Displacement: 2.2 Liters 132 Cubic Inches  
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VNN3/1 (CA)	Accord LX Sedan Accord SE Sedan	L4	3250	7.2	EI Distributor: TD-76U PCM: 37820-P0J-L52		
VNN3/1-33 (CA)	Accord LX Sedan Accord SE Sedan	L4	3250	7.2	EI Distributor: TD-76U PCM: 37820-P0J-L53		