

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-378  
Relating to Certification of New Motorcycles

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 the following engine and exhaust emission control systems produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

Model Year: 2001

<u>Engine Family</u>	<u>Displacement Cubic Centimeters</u>	<u>Class</u>	<u>Exhaust Emission Control Systems &amp; Special Features</u>
1HNXC01.1AAA	1099	III	Engine Modification

Vehicle models and transmissions are listed on the attachment. Production motorcycles shall be in all material respects the same as those for which certification is granted.

The following are the exhaust emission standards and exhaust certification emission values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

<u>Hydrocarbons Standards (Corporate Average) Grams per Kilometer</u>	<u>Hydrocarbons Standards (Designated) Grams per Kilometer</u>	<u>Hydrocarbons (Certification) Grams per Kilometer</u>	<u>Carbon Monoxide (Standard) Grams per Kilometer</u>	<u>Carbon Monoxide (Certification) Grams per Kilometer</u>
1.4	0.9	0.6	12	10

BE IT FURTHER RESOLVED: That the above-described certification is subject to the following terms, limitations and conditions:

The above designated hydrocarbons standard shall be the exhaust limit for this engine family during the model year and therefore cannot be redesignated by the manufacturer. It represents the hydrocarbons exhaust emission standard applicable to this engine family that shall be applied when determining compliance of any motorcycle within this engine family pursuant to Section 2101 of Title 13, California Code of Regulations. It will also be used to determine compliance with the above corporate average hydrocarbons standard as required per Section 1958(b), Title 13 of the California Code of Regulations.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles," as required by Section 1976, Title 13 of the California Code of Regulations.

BE IT FURTHER RESOLVED: That these motorcycles are found exempt from compliance with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 8<sup>th</sup> day of May 2000.



R. B. Summerfield, Chief  
Mobile Source Operations Division



## Motorcycle Engine Family Information Form

1. Manufacturer: Honda Motor Co., Ltd.
2. Certification contact Person, address, phone, and fax:

Julie Barkow-Peck, Certification Assistant, Certification Department  
 American Honda Motor Co., Inc. Mail Stop 500-2C-8A  
 1919 Torrance Blvd., Torrance CA 90501-2746  
 Telephone: (310) 783-3417 Fax: (310) 783-3510 E-Mail: Julie\_Peck@ahm.honda.com

3. Model Year: 2001
4. Process Code: New  
(new, correction, revised, r/c, f/f, etc.)
5. Engine Family: 1HNXC01.1AAA  
 50s Eng. Code: N/A  
 49s Eng. Code: 1DB1  
 Calif. Eng. Code: 1DB2
6. Emission Control System: EM
7. Calif. Designated Standard(g/km):  N/A  
 HC 0.9  
 HC+NOx
8. Project Annual Sales: **CONFIDENTIAL**
9. New Technology:  Yes  No  
 If yes, cite the correspondence or reference  
 the submittal document: N/A

10. Displacement(cc): 1099
11. Number of Cylinder: 2
12. Cylinder Arrangement: 45 Degrees V-2
13. Cylinder Head Configuration: OHV/OHC
14. Type of Cooling: Liquid Cooled
15. Combustion Cycle: Otto
16. Method of Aspiration: Natural
17. Fuel System: Carburetors
18. Number of Catalytic Converters: N/A

19. Adjustable Parameters:

Parameters (s)	Adjustable Range (or N/A)	Tamper Resistance Method (or N/A)	Method Approved
Carburetor Pilot Screw	N/A	Sealed with an aluminum plug	N/A

20. AECDS in the Emission Control System:

Exhaust System	Evaporative System
AECDS In System: <u>N/A</u> _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	AECDS In System: <u>Evap CAV Control Valve</u> _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

0.15

Engine Family: 1HNXC01.1AAA

**Motorcycle Test Information Form**

27. Are you carrying over test results from a previously certified family?  Yes  No  
 a) If yes, indicate family name: VHNL1PAGARB  
 b) Is the family being certified identical to the family from which the data is being carried over? Yes
28. Model Designation of Test Vehicle: VT1100C  
 29. Test Information Number: V04  
 30. Vehicle ID: 97DB-01  
 31. Service Accumulation Duration(km): 15014  
 32. Maximum Rated Power(kW @ RPM): 47.7 @ 5500  
 33. Displacement(cc): 1099  
 34. Certification Fuel: Indolene  
 35. Test Data Set: 1  
 36. Road Load(nt): 149.7  
 37. Inertia Mass(kg): 370  
 38. N/V: 29.5  
 39. Evap Bench Test Method Approval:  
 Data: March 9, 1983  
 Reference: 17.01.01-1(ARB) &  
 17.01.02-2(ARB) thru  
 17.01.02-12(ARB) in 1999 Model  
 Year Application  
 40. Unscheduled Maintenance:  Yes  No  
 41. If yes Vehicle Log Provided:  
 See page Section 7 page 14  
 42. Exhaust Emission Deterioration Factor

Test Number	System Kilometers	Emission Values			
		HC	CO	NOx	HC+NOx
1	3506	0.48	9.5		
2	6457	0.53	9.4		
3	6486	0.55	9.9		
4	9534	0.54	9.8		
5	12817	0.66	10.5		
6	12847	0.57	9.4		
7	15014	0.54	9.8		
Interpolated Values at <u>15,000 km</u> :		HC = <u>0.5967</u>	CO = <u>9.9470</u>		
Extrapolated Values at <u>30,000 km</u> :		HC = <u>0.7169</u>	CO = <u>10.4668</u>		

Check One:	
Regular DF	<input checked="" type="checkbox"/>
Modified DF	<input type="checkbox"/>
If Different Vehicle Specify Vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	CO	9.8			
g/km	CO <sub>2</sub>	89.8			
g/km	HC	0.54			
g/km	NOx				
g/km	HC+NOx				
g/km	Evap.	0.89			

Deterioration Factors
(X) 1.052
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(X) 1.201
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(X)
(+) 0.1

44. Certification Levels:

g/km	CO	10			
g/km	HC	0.6			
g/km	HC+NOx				
g/test	Evap.	1.0			

Application Processed by: Joseph Jegede Date: 5/3/2000 Reviewed by: L. Hude Date: 5/3/00