

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-362  
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 2000 model-year Honda Motor Co., Ltd. exhaust emission control systems are certified as described below for four-stroke gasoline-powered motorcycles:

<u>Engine Family</u>	<u>Displacement Cubic Centimeters</u>	<u>Class</u>	<u>Exhaust Emission Control Systems &amp; Special Features</u>
YHNXC0.24AAA	244	II	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 certification emission values for this engine family:

<u>Hydrocarbons (Standard) 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>
1.0	0.9	12	9

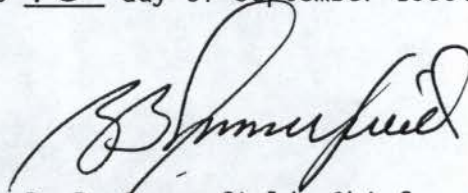
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 13<sup>th</sup> day of September 1999.

A handwritten signature in black ink, appearing to read "R. B. Summerfield". The signature is written in a cursive, flowing style with a large initial "R".

R. B. Summerfield, Chief  
Mobile Source Operations Division





## Motorcycle Engine Family Information Form

0.105

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

Julie Barkow, 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\_Barkow@ahm.honda.com

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| <ol style="list-style-type: none"> <li>3. Model Year: 2000</li> <li>4. Process Code: New<br/>(new, correction, revised, r/c, f/f, etc.)</li> <li>5. Engine Family: YHNXC0.24AAA<br/>                     50s Eng. Code: YBB1<br/>                     49s Eng. Code: N/A<br/>                     Calif. Eng. Code: N/A</li> <li>6. Emission Control System: EM</li> <li>7. Calif. Designated Standard(g/km): N/A</li> <li>8. Project Annual Sales: <b>CONFIDENTIAL</b></li> <li>9. New Technology: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>                     If yes, cite the correspondence or reference<br/>                     the submittal document: N/A</li> <li>19. Adjustable Parameters:</li> </ol> | <ol style="list-style-type: none"> <li>10. Displacement(cc): 244</li> <li>11. Number of Cylinder: 1</li> <li>12. Cylinder Arrangement: Vertical</li> <li>13. Cylinder Head Configuration: OHV/OHC</li> <li>14. Type of Cooling: Liquid Cooled</li> <li>15. Combustion Cycle: Otto</li> <li>16. Method of Aspiration: Natural</li> <li>17. Fuel System: Carburetors</li> <li>18. Number of Catalytic Converters: N/A</li> </ol> |
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Parameters(s)	Adjustable Range (or N/A)	Tamper Resistance Method (or N/A)	Method Approved
Carburetor Pilot Screw	Limited to 7/8 turn leaner side only	Limiter cap	N/A

20. AECDs in the Emission Control System:

<p>Exhaust System</p> <p>AECDs In System:  <u>N/A</u>                      _____                      _____                      _____                      _____                      _____                      _____</p> <p><u>Application Processed by: Joseph Jegede</u>  <u>Reviewed by: [Signature]</u></p>	<p>Evaporative System</p> <p>AECDs In System:  <u>N/A</u>                      _____                      _____                      _____                      _____                      _____                      _____</p> <p><u>Date: 9/10/99</u>  <u>Date: 9/10/99</u></p>
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Engine Family: YHNXC0.24AAA

## Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family?  Yes  No  
 a) If yes, indicate family name: XHNXC0.24AAA  
 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: CN250
29. Test Information Number: G01
30. Vehicle ID: 86BB-21
31. Service Accumulation Duration(km): 9013
32. Maximum Rated Power(kW @ RPM): 15.7 @ 7500
33. Displacement(cc): 244
34. Certification Fuel: Indolene
35. Test Data Set: 1
36. Road Load(nt): 125.3
37. Inertia Mass(kg): 250
38. N/V: 71.4
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: N/A
42. Exhaust Emission Deterioration Factor

Test Number	System Kilometers	Emission Values	
		HC	CO
1	2533	0.89	9.6
2	6320	0.93	10.4
3	6350	0.89	10.4
4	9013	0.88	9.3
5			
6			
7			
Interpolated Values at <u>9,000</u> km:		HC = <u>0.8949</u>	CO = <u>9.8644</u>
Extrapolated Values at <u>18,000</u> km:		HC = <u>0.8869</u>	CO = <u>9.6794</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	9.3			
g/km	CO <sub>2</sub>	68.3			
g/km	HC	0.88			
g/km	Evap.	0.56			

	Deterioration Factors
(X)	1.000 (0.981)
	_____
(X)	1.000 (0.991)
(+)	0.0

44. Certification Levels:

g/km	CO	9			
g/km	HC	0.9			
g/test	Evap.	0.6			

( ): Calculated Value



Engine Family: YHNXC0.24AAA

## Evaporative Emission Information

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| <p>45. Evaporative Family: YHNKE0008BYB</p> <p>46. Number of Evap. Canisters: 1</p> <p>47. Design Working Capacity(g): 8.0</p> <p>48. Configuration: Open Bottom</p> <p>49. Number of storage Areas: 1</p> <p>50. Fuel Reservoir Volume(cc): 60</p> <p>51. Vent System Configuration: External</p> <p>52. Nominal Tank Capacity(liter): 12.0</p> | <p>53. Engine Displacement Class: II</p> <p>54. Storage Medium Composition: Charcoal</p> <p>55. Evap. Canister Medium Volume(cc): 210 +/- 20/0</p> <p>56. Evap. Family Sales: <b>CONFIDENTIAL</b></p> <p>57. Engine Code: YBB1</p> <p>58. Evap. Emission Family Code: 00YB</p> <p>59. Evap. Emission Family Group: B</p> <p>60. Overall Evap D.F. = 0.0</p> |
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**Bench DF**

61. Test Vehicle ID: 86BB-21
62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	2500	0.84
2	2500	0.85
3	2500	0.71
4	9000	0.64
5	9000	0.72
6	9000	0.69
7		
Interpolated Values at <u>9,000</u> km: = <u>0.683</u>		
Extrapolated Values at <u>18,000</u> km: = <u>0.522</u>		
Bench Test D.F. = <u>0.00</u> (calculated value = -0.16 )		

Check One:	
Regular DF	X
Modified DF	
If Different Vehicle Specify Vehicle ID	

**Vehicle DF**

63. Test Vehicle ID: 86BB-01
64. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	2593	0.58
2	6485	0.42
3	6516	0.63
4	9015	0.56
5		
6		
7		
Interpolated Values at <u>9,000</u> km: = <u>0.535</u>		
Extrapolated Values at <u>18,000</u> km: = <u>0.496</u>		
Vehicle Test D.F. = <u>0.00</u> (calculated value = -0.04 )		