

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-359
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 & Special Features</u>
YHNXC0.08AAA	80	I	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	0.7	12	7

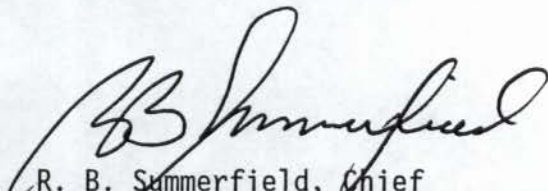
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

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 1st day of July 1999.



R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Family: YHNXC0.08AAA

Motorcycle Model Summary Form

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70. Power (kW)	71. Rated Speed (RPM)	72. Rated Torque (Nm)	73. Rated Speed (RPM)
CH80	X	80	49.5 / 41.4	18 (BTDC)	3.7	7500	5.9	5000

65. Model Designation	74. EIM (kg)	75. Loaded Vehicle Weight Range (kg)	76. Road Load (nt)	77. Total Vehicle Mass (kg)	78. Full Weight with All Factory Options (kg).	79. Trans. Type	80. N/V
CH80	170	166 - 175	109.0	175	175	A2	118.9

Motorcycle Engine Family Information Form

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

0.3

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@aem.honda.com

3. Model Year: 2000
4. Process Code: New
(new, correction, revised, r/c, f/f, etc.)
5. Engine Family: YHNKCO.08AAA
50s Eng. Code: N/A
49s Eng. Code: YAB1
Calif. Eng. Code: YAB2
6. Emission Control System: EM
7. Calif. Designated Standard(g/km): N/A
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): 80
11. Number of Cylinder: 1
12. Cylinder Arrangement: Vertical
13. Cylinder Head Configuration: OHV/OHC
14. Type of Cooling: Air 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	Limited to 7/8 turn leaner side only	Limiter cap	N/A

20. AECDS in the Emission Control System:

Exhaust System	Evaporative System
AECDS In System: N/A	AECDS In System: N/A

Application
Processed by: Joseph Jegede Date: 6/30/99 Reviewed by: Steve Velez Date: 6/30/99

Engine Family: YHNC0.08AAA

Motorcycle Test Information Form27. Are you carrying over test results from a previously certified family? ☒ Yes ☐ No

a) If yes, indicate family name: FHN008041DX

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: CH80

36. Road Load(nt): 109.0

29. Test Information Number: 110

37. Inertia Mass(kg): 170

30. Vehicle ID: 85AD-01

38. N/V: 118.9

31. Service Accumulation Duration(km): 6042

39. Evap Bench Test Method Approval:

Data: March 9, 1983

32. Maximum Rated Power(kW @ RPM): 3.7 @ 7500

Reference: 17.01.01-1 (ARB) &
17.01.02-2 (ARB) thru
17.01.02-12 (ARB) in 1999 Model
Year Application

33. Displacement(cc): 80

34. Certification Fuel: Indolene

40. Unscheduled Maintenance: ☐ Yes ☒ No

35. Test Data Set: 1

41. If yes Vehicle Log Provided: N/A

42. Exhaust Emission Deterioration Factor

Test Number	System Kilometers	Emission Values	
		HC	CO
1	2555	0.81	8.1
2	4101	0.73	7.7
3	4128	0.71	8.7
4	6015	0.72	6.9
5	6042	0.72	7.0
6			
7			
Interpolated Values at 6,000 km:		HC = 0.6981	CO = 7.1970
Extrapolated Values at 12,000 km:		HC = 0.5502	CO = 5.0207

Check One:

Regular DF ☒ XModified DF ☐If Different Vehicle
Specify Vehicle ID

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	CO	7.0			
g/km	CO ₂	32.2			
g/km	HC	0.72			
g/km	Evap.	1.13			

(X)

(X)

(+))

Deterioration
Factors

1.000 (0.698)

1.000 (0.788)

0.0

44. Certification Levels:

g/km	CO	7			
g/km	HC	0.7			
g/test	Evap.	1.1			

(): Calculated Value

Engine Family: YHNXC0.08AAA

Evaporative Emission Information

45. Evaporative Family: YHNE0008EXB

46. Number of Evap. Canisters: 1

47. Design Working Capacity(g): 8.0

48. Configuration: Open Bottom

49. Number of storage Areas: 1

50. Fuel Reservoir Volume(cc): 35

51. Vent System Configuration: External

52. Nominal Tank Capacity(liter): 5.0

53. Engine Displacement Class: I

54. Storage Medium Composition: Charcoal

55. Evap. Canister Medium Volume(cc): 210 +/- 20/0

56. Evap. Family Sales: **CONFIDENTIAL**

57. Engine Code: YAB2

58. Evap. Emission Family Code: 00XB

59. Evap. Emission Family Group: B

60. Overall Evap D.F.= 0.0

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	☒
Modified DF	☐
If Different Vehicle Specify Vehicle ID	

Vehicle DF

63. Test Vehicle ID: 85AD-01

64. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	2555	1.62
2	4101	1.52
3	4128	1.32
4	6015	0.97
5	6042	1.13
6		
7		
Interpolated Values at <u>6,000</u> km: = <u>1.014</u>		
Extrapolated Values at <u>12,000</u> km: = <u>-0.132</u>		
Vehicle Test D.F. = <u>0.00</u> (calculated value = -1.15)		