State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-364
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:

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
YHNXC01.1AEF	1137	III	Pulsed Secondary Air Injection Sequential Multiport Fuel Injection

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

Hydrocarbon Standards (Corporate Average) Grams per Kilometer	Hydrocarbon Standards (Designated) Grams per Kilometer	Hydrocarbons (Certification) Grams per Kilometer	Carbon Monoxide (Standard) Grams per Kilometer	Carbon Monoxide (Certification) Grams per Kilometer
1.4	1.4	1.2	12	9

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 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 22nd day of September 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Family: YHNXC01.1AEF

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)
CBR1100XX	X	1137	79.0 / 58.0	9(BTDC)	113.3	9500	118.7	7250

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
CBR1100XX	340	336 - 345	143.6	345	345	M6	36.5

Motorcycle Engine Family Information Form

0.16

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

3. Model Year: 2000

4. Process Code: New
(new, correction, revised, r/c, f/f, etc.)

5. Engine Family: YHNXC01.1AEF
50s Eng. Code: N/A
49s Eng. Code: YEB1
Calif. Eng. Code: YEB2

6. Emission Control System: PAIR/SFI

7. Calif. Designated Standard(g/km): 1.4

8. Project Annual Sales: CONFIDENTIAL

9. New Technology: ☒ Yes ☐ No
If yes, cite the correspondence or reference the submittal document: See page Section 4 page 1

10. Displacement(cc): 1137

11. Number of Cylinder: 4

12. Cylinder Arrangement: L-4

13. Cylinder Head Configuration: OHV/DOHC

14. Type of Cooling: Liquid Cooled

15. Combustion Cycle: Otto

16. Method of Aspiration: Natural

17. Fuel System: Fuel Injection(SFI)

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
None			

20. AECDs in the Emission Control System:

Exhaust System	Evaporative System
AECDs In System:	AECDs In System:
PAIR Solenoid Valve	ECM
ECM	Throttle Position Sensor
Throttle Position Sensor	ECT Sensor
ECT Sensor	IAT Sensor
IAT Sensor	Ignition Pulse Generator
Map Sensor	Vehicle Speed Sensor
Ignition Pulse Generator	
PA Sensor	
Knock Sensor	
Application Processed by: Joseph Tegeda	Date: 9/21/99
Reviewed by: L. Hook	Date: 9/21/99

Engine Family: YHNXC01.1AEF

Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? ☒ Yes ☐ No
    a) If yes, indicate family name: XHNXC01.1AEF
    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: CBR1100XX

29. Test Information Number: W06

30. Vehicle ID: 99EB-01

31. Service Accumulation Duration(km): 15014

32. Maximum Rated Power(kW @ RPM): 113.3 @ 9500

33. Displacement(cc): 1137

34. Certification Fuel: Indolene

35. Test Data Set: 1

36. Road Load(nt): 143.6

37. Inertia Mass(kg): 340

38. N/V: 36.5

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: N/A

42. Exhaust Emission Deterioration Factor

		Emission Values	
Test Number	System Kilometers	HC	CO
1	3399	0.90	8.4
2	6491	1.09	6.8
3	6521	0.99	7.5
4	9728	1.01	7.7
5	12904	1.19	7.8
6	12934	0.97	8.0
7	15014	1.02	8.3
Interpolated Values at 15,000 km:		HC = 1.0748	CO = 7.9686
Extrapolated Values at 30,000 km:		HC = 1.2143	CO = 8.4739

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

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4		Deterioration Factors
g/km	CO	8.3				(X)	1.063
g/km	CO_2	140.3					———
g/km	HC	1.02				(X)	1.130
g/km	Evap.	0.28				(+)	0.1

44. Certification Levels:

g/km	CO	9			
g/km	HC	1.2			
g/test	Evap.	0.4			

Engine Family: YHNXC01.1AEF

Evaporative Emission Information

45. Evaporative Family: YHNXE0028NZR
46. Number of Evap. Canisters: 1
47. Design Working Capacity(g): 28.0
48. Configuration: Open Bottom
49. Number of storage Areas: 1
50. Fuel Reservoir Volume(cc): N/A
51. Vent System Configuration: N/A
52. Nominal Tank Capacity(liter): 24.0
53. Engine Displacement Class: III
54. Storage Medium Composition: Charcoal
55. Evap. Canister Medium Volume(cc): 680 +/- 10
56. Evap. Family Sales: CONFIDENTIAL
57. Engine Code: YEB2
58. Evap. Emission Family Code: 00ZR
59. Evap. Emission Family Group: U
60. **Overall Evap D.F.**= 0.1

Bench DF

61. Test Vehicle ID: 99EB-01
62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3500	0.20
2	3500	0.14
3	3500	0.18
4	15000	0.23
5	15000	0.20
6	15000	0.22
7		
Interpolated Values at 15,000 km: =		0.217
Extrapolated Values at 30,000 km: =		0.273
Bench Test D.F. =		0.06

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

Vehicle DF

63. Test Vehicle ID: 99EB-01
64. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3390	0.24
2	6491	0.18
3	6521	0.18
4	9728	0.22
5	12904	0.31
6	12934	0.23
7	15014	0.28
Interpolated Values at 15,000 km: =		0.273
Extrapolated Values at 30,000 km: =		0.381
Vehicle Test D.F. =		0.11