Joseph J.

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-370
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: 2000

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
YHNXC01.0AEA	999	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 certification emission 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	0.6	12	11

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 through 2000 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 29th day of March 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

Engine Family: YHNXC01.0AEA

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)
RVT1000R	X	999	100.0 / 63.6	15(BTDC)	94	9000	103	8000
VTR1000SP		999	100.0 / 63.6	15(BTDC)	94	9000	103	8000

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
RVT1000R	310	306 - 315	137.5	315	315	M6	35.9
VTR1000SP	310	306 - 315	137.5	315	315	M6	35.9

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: 2000

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

5. Engine Family: YHNXC01.0AEA
   50s Eng. Code: N/A
   49s Eng. Code: YEJ1
   Calif. Eng. Code: YEJ2

6. Emission Control System: PAIR/SFI

7. Calif. Designated Standard(g/km): ☐ N/A ☒ HC -1.4 ☐ HC+NOx

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): 999

11. Number of Cylinder: 2

12. Cylinder Arrangement: 90 Degrees V-2

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	Vehicle Speed Sensor
MAP Sensor	
BARO Sensor	
Ignition Pulse Generator	
Cam Position Sensor	

Engine Family: YHNXC01.0AEA

Motorcycle Test Information Form

0.248

27. Are you carrying over test results from a previously certified family? ☐ Yes ☒ No
    a) If yes, indicate family name:
    b) Is the family being certified identical to the family from which the data is being carried over?

28. Model Designation of Test Vehicle: RVT1000R

29. Test Information Number: Y04

30. Vehicle ID: 00EJ-01

31. Service Accumulation Duration(km): 15012

32. Maximum Rated Power(kW @ RPM): 94 @ 9000

33. Displacement(cc): 999

34. Certification Fuel: Indolene

35. Test Data Set: 1

36. Road Load(nt): 137.5

37. Inertia Mass(kg): 310

38. N/V: 35.9

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:

42. Exhaust Emission Deterioration Factor

		Emission Values			
Test Number	System Kilometers	HC	CO	NOx	HC+NOx
1	3652	0.63	8.1		
2	6537	0.57	8.9		
3	6566	0.54	8.6		
4	9754	0.59	9.3		
5	12956	0.60	9.3		
6	12986	0.58	9.0		
7	15012	0.57	9.4		
Interpolated Values at 15,000 km:		HC = 0.5762	CO = 9.4541		
		HC+NOx =			
Extrapolated Values at 30,000 km:		HC = 0.5576	CO = 10.8842		
		HC+NOx =			

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	9.4				(X)	1.151
g/km	CO_2	126.5					---------
g/km	HC	0.57				(X)	1.000 (0.968)
g/km	NOx						---------
g/km	HC+NOx					(X)	
g/km	Evap.	0.28				(+)	0.1

(): Calculated Value

44. Certification Levels:

g/km	CO	11			
g/km	HC	0.6			
g/km	HC+NOx				
g/test	Evap.	0.4			

Application Processed by: Joseph Jegede Date: 3/22/2000
Reviewed by: Date:

Engine Family: YHNXC01.0AEA

Evaporative Emission Information

45. Evaporative Family: YHNXE0028UZP
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): 18.0
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: YEJ2
58. Evap. Emission Family Code: 00ZP
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		