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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-357 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:

	Displacement	67	Exhaust Emission Control Systems
Engine Family	Cubic Centimeters	Class	& Special Features
YHNXC01.1AAC	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 emission certification values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

Hydrocarbon St	tandards	Hydrocarbons	Carbon Monoxide				
(Corporate Average)	(Designated)	(Certification)	(Standard)	(Certification)			
Grams per	Grams per	Grams per	Grams per	Grams per			
Kilometer	Kilometer	Kilometer	Kilometer	Kilometer			
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 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 _/ day of July 1999.

R. B. Summerfield, Chief

Mobile Source Operations Division

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Issued: 1999/03/05 Revised:

Engine Family: YHNXC01.1AAC

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)
VT1100C3	Х	1099	87.5 / 91.4	6.5(BTDC)	44	4750	101	3000

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
VT1100C3	400	396 - 405	155.8	405	405	M5	30.7
10.1							

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Revised:

Motorcycle Engine Family Information Form

ertification contact reisc	on, address, phone, and	i fax:					
Julie Barkow, Certificati American Honda Motor Co., 1919 Torrance Blvd., Torr Telephone: (310)783-3417	Inc. Mail Stop 300-20	cation Department C-8A Mail: Julie_Barkow@ahm.hond	a.com				
Model Year: 2000		10. Displacement (cc): 10	99				
Process Code: New new, correction, revised,	r/c, f/f, etc.)	11. Number of Cylinder:					
Engine Family: YHNXC01.1A		12. Cylinder Arrangement					
50s Eng. Code: N/A		13. Cylinder Head Config	puration: OHV/OHC				
49s Eng. Code: YEEl Calif. Eng. Code: YEE	2	14. Type of Cooling: Lie	14. Type of Cooling: Liquid Cooled				
Emission Control System:		15. Combustion Cycle: Otto 16. Method of Aspiration: Natural					
Calif. Designated Standard							
Project Annual Sales: C		17. Fuel System: Carbur	etors				
New Technology: Yes If yes, cite the corresport the submittal document: N/	ndence or reference	18. Number of Catalytic					
. 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				
	ontrol System:	Evaporative System	Marie Comment				
). AECDs in the Emission C							
Exhaust System AECDs In System:		AECDs In System: Evap CAV Control Val					

Application Processed by: Joseph Jegede Date: 6/30/99 Reviewed by: Stern Hode Date: 6/36/99

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Issued: 1999/03/05

Revised:

Engine Family: YHNXC01.1AAC

Motorcycle Test Information Form

27.	Are	vou	carrying	over	test	results	from	a	previously	certified	family?	X Yes	☐ No)
-----	-----	-----	----------	------	------	---------	------	---	------------	-----------	---------	-------	------	---

a) If yes, indicate family name: VHN1.1PAGARB

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: VT1100C3

29. Test Information Number: W04

30. Vehicle ID: 98EE-01

31. Service Accumulation Duration (km): 15016

32. Maximum Rated Power (kW @ RPM): 44

33. Displacement (cc): 1099

34. Certification Fuel: Indolene

35. Test Data Set: 1

42. Exhaust Emission Deterioration Factor

Extrapolated Values at 30,000 km:

- 36. Road Load(nt): 155.8
- 37. Inertia Mass(kg): 400
- 38. N/V: 30.7

HC = 0.5655 CO = 10.3498

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: X Yes No

(X)

(X) (+)

41. If yes Vehicle Log Provided: See Section 7 page 14

		Emission	Values
Test Number	System Kilometers	HC	∞
1	3647	0.38	8.6
2	6371	0.42	9.0
3	6402	0.45	9.3
4	9605	0.44	9.6
5	12629	0.46	9.7
6	12662	0.45	9.1
7	15016	0.47	9.3
Intermolate	d Values at 15,000 km:	HC = 0.47	27

Regular D Modified	
If Differ Specify V	ent Vehicle ehicle ID

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	00	9.3			
g/km	∞,	102.5	1000		
g/km	HC	0.47	11.11.13	The Bell	
g/km	Evap.	0.89	1		

D	eterioration Factors
	1.086
	1.196
	0.1

44. Certification Levels:

g/km	00	(10)	
g/km	HC	(0.6)	
g/test	Evap.	1.0	

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Issued: 1999/03/05

Revised:

Engine Family: YHNXC01.1AAC

Evaporative Emission Information

45. Evaporative Family: YHNXE0020FZD

46. Number of Evap. Canisters: 1

47. Design Working Capacity(g): 20.5

48. Configuration: Open Bottom

49. Number of storage Areas: 1

50. Fuel Reservoir Volume(cc): 172

51. Vent System Configuration: Internal

52. Nominal Tank Capacity(liter): 16.0

53. Engine Displacement Class: III

54. Storage Medium Composition: Charcoal

55. Evap. Canister Medium Volume(cc): 480 +/- 10

56. Evap. Family Sales: CONFIDENTIAL

57. Engine Code: YEE2

58. Evap. Emission Family Code: 00ZD

59. Evap. Emission Family Group: F

60. Overall Evap D.F.= 0.1

Bench DF

61. Test Vehicle ID: 95DP-01

62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3500	0.64
2	3500	0.63
3	3500	0.65
4	15000	0.80
5	15000	0.56
6	15000	0.51
7		
Interpolate	d Values at 15,000 kg	n: = <u>0.623</u>
Extrapolate	d Values at 30,000 kg	m: = <u>0.602</u>
Bench Test 1	D.F. = 0.00 (calcu	lated value = -0.02)

Regular DF Modified DF	
If Different	Vehicle
Specify Vehi	cle ID

Vehicle DF

63. Test Vehicle ID: 95DP-01

Vehicle Test D.F. = 0.17

64. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3703	0.76
2	6473	0.80
3	6503	0.86
4	9466	0.87
5	12820	0.88
6	12850	0.91
7	15014	0.89
Interpolated	Values at 15,000 k	m: = 0.914
Extrapolate	d Values at 30,000 k	m: = 1.081