State of California AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-376 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: 2001

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
1HNXC01.1AAD	1099	Ш	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 certification emission values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

Hydrocarbon Sta	Hydrocarbons		Monoxide	
(Corporate Average)	(Designated)	(Čertification)	(Standard)	(Certification)
` Grams per ´ ´	`Grams per	Grams per	Grams per	Grams per
<u>Kilometer</u>	<u>Kilometer</u>	<u>Kilometer</u>	<u>Kilometer</u>	<u>Kilometer</u>
4.4	0.0	0.6	40	0
1. 4	0.9	0.6	12	Ö

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 2001 and Subsequent 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.

R. B/Summerfield, Chief

Mobile Source Operations Division

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2001 HONDA Motorcycle

E. O. #: M-2-376

Section: 7 Page: 6 Issued: 1999/12/24 Revised: 2000/4/25

Engine Family: 1HNXC01.1AAD

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)
VT1100T	Х	1099	87.5 / 91.4	12(BTDC)	47.7	5500	97.1	3000
VT1100C2		1099	87.5 / 91.4	11.5(BTDC)	47.7	5500	97.1	3000
(VT1100C3)		1099	87.5 / 91.4	11.5(BTDC)	47	5000	103	3500
New model added								

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
400	396 - 405	155.8	405	405	M5	34.7
390	386 - 395	153.8	395	395	M5	34.4
400	396 - 405	155.8	405	401	M5	34.4
	EIM (kg)	EIM Loaded (kg) Vehicle Weight Range (kg) 400 396 - 405 390 386 - 395	EIM Loaded Road (kg) Vehicle Load Weight (nt) Range (kg) 400 396 - 405 155.8 390 386 - 395 153.8	EIM Loaded Road Total (kg) Vehicle Load Vehicle Weight (nt) Mass (kg) 400 396 - 405 155.8 405 390 386 - 395 153.8 395	Fig. Loaded Road Total Full Weight Weight (nt) Mass Factory Options (kg) (kg) (kg) (kg) (kg) (kg) (kg) (kg) (kg)	EIM Loaded Road Total Full Weight Trans.

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E-O.#: M-2-376 Section: 7 Page:6 Issued:1999/12/24

Revised:

ATTACHMENT

Engine Family: 1HNXC01.1AAD

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)
VT1100T	X	1099	87.5 / 91.4	12 (BTDC)	47.7	5500	97.1	3000
VT1100C2		1099	87.5 / 91.4	11.5(BTDC)	47.7	5500	97.1	3000
							1	

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
VT1100T	400	396 - 405	155.8	405	405	M5	34.7
VT1100C2	390	386 - 395	153.8	395	395	MS	34.4
		:					

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Issued: 1999/12/24

Revised:

Motorcycle Engine Family Information Form

1. Manufacturer: Honda 1	Motor Co., Ltd.					
2. Certification contact	: Person, address, phone	e, and	fax:	·		
American Honda Moto 1919 Torrance Blvd	Certification Assistant or Co., Inc. Mail Stop 9 ., Torrance CA 90501-274 3-3417 Fax: (310)783-351	500-2C 16	-	om.		
3. Model Year: 2001			10. Displacement (cc): 109	9		
4. Process Code: New (new, correction, rev	rised, r/c, f/f, etc.)		11. Number of Cylinder: 2	2		
5. Engine Family: 1HNXC	01.1AAD	12. Cylinder Arrangement:	45 Degrees V-2			
50s Eng. Code: 1 49s Eng. Code: 1			13. Cylinder Head Configu	ration: OHV/OHC		
Calif. Eng. Code			14. Type of Cooling: Liqu	uid Cooled		
6. Emission Control Syst	tem: EM		15. Combustion Cycle: Ott	.0		
7. Calif. Designated Sta	andard(g/km): N/A HC	16. Method of Aspiration:	Natural			
8. Project Annual Sales:	☐ HC+NOx CONFIDENTIA	17. Fuel System: Carburetors 18. Number of Catalytic Converters: N/A				
the submittal documents. 19. Adjustable Parameters Parameters(s)			amper Resistance Method	Method Approved		
Parameters(s)	(or N/A)	10	(or N/A)	radaw rapiovos		
Carburetor Pilot Screw	N/A	Seal	ed with an aluminum plug	N/A		
20. AECOs in the Emission	on Cantrol System:					
Exhaust System			Evaporative System			
AECDs In System: N/A			AECDs In System: Evap CAV Control Valve			

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Issued: 1999/12/24

Revised:

Engine Family: 1HNXC01.1AAD

Motorcycle	Test	Information	Form

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27.	Are you carry	ing over tes	results	from a	previously	certified	family?	🛚 Yes	□ No
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a) If yes, indicate family name: WHNXCO1.1AAD

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: VT1100T

29. Test Information Number: W01

30. Vehicle ID: 98EF-01

31. Service Accumulation Duration(km): 15014

32. Maximum Rated Power (kW @ RPM): 47.7 @ 5500

33. Displacement (cc): 1099

34. Certification Fuel: Indolene

35. Test Data Set: 1

36. Road Load (nt): 155.8

37. Inertia Mass(kg): 400

38. N/V: 34.7

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

Check One: Regular DF Modified DF

If Different Vehicle Specify Vehicle ID

40. Unscheduled Maintenance: 🗌 Yes 🔀 No

(X)

(X)

(X)

41. If yes Vehicle Log Provided: N/A

42.	Exhaust	Emission	Deterioration	Factor
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		Emission Values					
Test Number	System Kilometers	HC	ω	NOx.	HC+NOx		
1	3460	0.56	8.5				
2	6548	0.51	8.7				
3	6578	0.54	9.0				
4	9572	0.53	8.7				
5	12914	0.64	9.4		<u> </u>		
6	12944	0.53	8.0				
7	15014	0.53	8.4				

,	T20T4	0.33			
Interpolated	l Values at <u>15,000</u> k		EC = <u>0.5594</u> EC+NOx =	co ≈ <u>8.6045</u>	
Extrapolated	l Values at 30,000 k	m: l	BC = 0.5892	$\infty = 8.4193$	

HC+NOx =

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	ω	8.4	: 1		
g/km	CD ₂	108.4			
g/km	HC	0.53			
g/km	NOx				
g/km	HC+NOx				·
g/km	Evap.	0.89			

Deterioration Factors
1.000 (0.978)
1.053
0.1

():Calculated Value

44. Certification Levels:

g/km	ω	8	 	
q/km	HC	(0.6)	 	
g/km	HC+NOx			
g/test	Evap.	1.0		l }

Application Processed by: Joseph Jegede Date: 4/11/2000 Reviewed by: Stand Hade Date: 4/11/00