## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER M-2-375 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
1HNXC0.58AAA	583	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 certification emission values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

Hydrocarbon St	andards	Hydrocarbons	Carbon Monoxide		
(Corporate Average) Grams per Kilometer	(Designated) Grams per Kilometer	(Ćertification) Grams per Kilometer	(Standard) Grams per Kilometer	(Certification) Grams per Kilometer	
1.0	0.9	0.7	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 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.

Executed at El Monte, California this 12 day of April 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

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Issued: 1999/12/27

Revised:

ATTACHMENT

Engine Family: 1HNXC0.58AAA

### 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)
VT600C	Х	583	75.0 / 66.0	4.2 (BTDC)	28.3	6500	50	3500
VI600CD		583	75.0 / 66.0	4.2(BTDC)	28.3	6500	50	3500

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
VT600C	320	316 - 325	139.5	325	325	M4	41.6
VT600CD	320	316 - 325	139.5	325	325	M4	41.6

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Revised:

### Motorcycle Engine Family Information Form

The second secon	Person, address, phone	e, and	fax:		
American Honda Moto 1919 Torrance Blvd.	Certification Assistant or Co., Inc. Mail Stop 5 , Torrance CA 90501-274	t, Cert 500-2C	ification Department	can	
Model Year: 2001			10. Displacement (cc): 58	13	
Process Code: New (new, correction, revised, r/c, f/f, etc.)			11. Number of Cylinder: 2		
Engine Family: 1HNXCO.58AAA			12. Cylinder Arrangement: 52 Degrees V-2		
50s Eng. Code: N	I/A		13. Cylinder Head Config	ouration: OHV/OHC	
49s Eng. Code: 1	.001			,,,	
Calif. Eng. Code	e: 1002		14. Type of Cooling: Lie	quid Cooled	
Emission Control Syst	em: EM	15. Combustion Cycle: O	tto		
Calif. Designated Sta	andard (g/km): □ N/A □ HC	0.9	16. Method of Aspiration: Natural		
the submittal document	CONFIDENTIA  s ⊠ No espondence or reference t:N/A		17. Fuel System: Carbure 18. Number of Catalytic		
. Adjustable Parameter	s:				
Parameters(s)	Adjustable Range	Tamper Resistance Method (or N/A)		Mathad Amazon	
	(or N/A)	16		medica approve	
Carburetor Pilot Screw		Reco			
	(or N/A)	Reco	(or N/A) ess "D" shaped head that	Method Approve Approved by EPA co	
Screw	(or N/A)  Not Limited	Reco	(or N/A) ess "D" shaped head that	Approved by EPA of	
	(or N/A)  Not Limited	Reco	(or N/A) ess "D" shaped head that	Approved by EPA of	
Screw  ABCDs in the Emissic	(or N/A)  Not Limited	Recore	(or N/A) ess "D" shaped head that quires a special tool	Approved by EPA of 09/03/91	
Screw  AECDs in the Emissic Exhaust System  AECDs In System:	(or N/A)  Not Limited	Recore	(or N/A) ess "D" shaped head that quires a special tool  Evaporative System  AECDs In System:	Approved by EPA of 09/03/91	

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Revised:

Engine Family: 1HNXC0.58AAA

#### Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? Xes \( \subseteq No. \)

0.34

a) If yes, indicate family name: XHNXCO.58AAA

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: VT600C

29. Test Information Number: X01

30. Vehicle ID: 99CC-01

31. Service Accumulation Duration (km): 15013

32. Maximum Rated Power (kW @ RPM): 28.3 @ 6500

33. Displacement (cc): 583

34. Certification Fuel: Indolene

35. Test Data Set: 1

42. Exhaust Emission Deterioration Factor

36. Road Load (nt): 139.5

37. Inertia Mass(kg): 320

38. N/V: 41.6

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

41. If yes Vehicle Log Provided:

See Section 7 page 14

		Emission Values				
Test Number	System Kilometers	HC	00	NOx	HC+NOx	
1	3602	0.57	9.1			
2	6385	0.58	9.6			
3	6415	0.62	10.0			
4	9755	0.59	9.6			
5	12954	0.63	9.6			
6	12984	0.61	8.8			
7	15013	0.62	9.2		Later 1	

Regular DF	×
Modified DF	
If Different Specify Veh	

Interpolated Values at 15,000 km:

HC = 0.6239 CO = 9.2564

HC+NOx =

Extrapolated Values at 30,000 km:

HC = 0.6823 $\infty = 8.8188$ 

HC+NOx =

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	$\infty$	9.2			
g/km	00,	77.3			
g/km	HC	0.62			
g/km	NOx				
g/km	HC+NOx				
g/km	Evap.	0.61			

	Deterioration Factors
	1.000 (0.953)
	1.094
	0.2
_	V STEPSON

44. Certification Levels:

(): Calculated Value

g/km	00	(9)	
g/km	HC	(0.7)	
g/km	HC+NOx		
g/test	Evap.	0.8	

Application Processed by: Foseth Jegede Date: 4/11/2000 Reviewed by: Sters Habe Date: 4/11/00