

Joseph J.

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-380
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

<u>Engine Family</u>	<u>Displacement Cubic Centimeters</u>	<u>Class</u>	<u>Exhaust Emission Control Systems & Special Features</u>
1HNXC0.64ABA	644	III	Pulsed Secondary Air 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:

<u>Hydrocarbons Standards (Corporate Average) Grams per Kilometer</u>	<u>Hydrocarbons Standards (Designated) Grams per Kilometer</u>	<u>Hydrocarbons (Certification) Grams per Kilometer</u>	<u>Carbon Monoxide (Standard) Grams per Kilometer</u>	<u>Carbon Monoxide (Certification) Grams per Kilometer</u>
1.0	0.8	0.4	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.

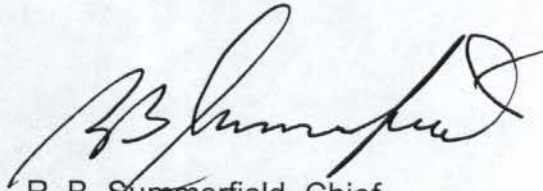
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 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 8th day of June 2000.



R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

2001 HONDA Motorcycle

E.O.#: M-2-380
Section: 7 Page:6
Issued: 2000/03/24
Revised:

Engine Family: 1HNXC0.64ABA

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)
XR650L	X	644	100.0 / 82.0	8 (BTDC)	29.8	6000	50	5000

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
XR650L	250	246 - 255	125.3	255	255	M5	47.0

Engine Family: 1HNXC0.64ABA

Motorcycle Test Information Form

0.15

27. Are you carrying over test results from a previously certified family? Yes No

a) If yes, indicate family name: XHNXC0.64ABA

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: XR650L

36. Road Load(NT): 125.3

29. Test Information Number: P03

37. Inertia Mass (kg): 250

30. Vehicle ID: 93CW-01

38. N/V: 47.0

31. Service Accumulation Duration(km): 15015

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

32. Maximum Rated Power (kW @ RPM): 29.8 @ 6000

33. Displacement (cc): 644

34. Certification Fuel: Indolene

40. Unscheduled Maintenance: Yes No

35. Test Data Set: 1

41. If yes Vehicle Log Provided:

See Section 7 page 14

42. Exhaust Emission Deterioration Factor

Test Number	System Kilometers	Emission Values			
		HC	CO	NOx	HC+NOx
1	3653	0.36	8.5		
2	6480	0.33	8.2		
3	6510	0.35	7.9		
4	9617	0.37	8.6		
5	12936	0.40	8.9		
6	12966	0.37	9.1		
7	15015	0.37	9.0		
Interpolated Values at <u>15,000 km</u> :		HC = <u>0.3819</u>	CO = <u>9.0496</u>		
		HC+NOx =			
Extrapolated Values at <u>30,000 km</u> :		HC = <u>0.4306</u>	CO = <u>10.2976</u>		
		HC+NOx =			

Check One:	
Regular DF	<input checked="" type="checkbox"/>
Modified DF	<input type="checkbox"/>
If Different Vehicle Specify Vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	CO	9.0			
g/km	CO ₂	85.0			
g/km	HC	0.37			
g/km	NOx				
g/km	HC+NOx				
g/km	Evap.	0.28			

(X)
(X)
(X)
(+)

Deterioration Factors
1.138

1.128

0.1

44. Certification Levels:

g/km	CO	10		
g/km	HC	0.4		
g/km	HC+NOx			
g/test	Evap.	0.4		

Application processed by: Joseph Jegede Date: 6/7/2000 Reviewed by: [Signature] Date: 6/8/00