### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER M-2-379 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	<u>Class</u>	Exhaust Emission Control Systems & Special Features
1HNXC01.5CBC	1520	111	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:

Hydrocarbons Standards		Hydrocarbons	Carbon Monoxide		
(Corporate Average) Grams per Kilometer	(Designated) Grams per <u>Kilometer</u>	(Ćertification) Grams per <u>Kilometer</u>	(Standard) Grams per <u>Kilometer</u>	(Certification) Grams per <u>Kilometer</u>	
1.4	1.4	1.1	12	8	

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 \_0

day of May 2000.

R. B. Summerfield, Chief Mobile Source Operations Division

"Attachment"

2001 HONDA Motorcycle

E.O.#: M-2-379 Section: 7 Page:6 Issued: 2000/01/21 Revised:

Engine Family: 1HNXC01.5CBC

# 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)
GL1500CF	X	1520	71.0 / 64.0	3.5(BTDC)	77.6	6000	141.2	4500

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
GL1500CF	490	486 - 495	169.4	495	495	M5	30.1

2001 HONDA Motorcycle

E.O.#: M-2-379 Section: 7 Page:1 Issued: 2000/01/21 Revised:

## Motorcycle Engine Family Information Form .

10. Displacement (cc): 1520

11. Number of Cylinder: 6

15. Combustion Cycle: Otto

17. Fuel System: Carburetors

12. Cylinder Arrangement: Flat-6/Opposed

13. Cylinder Head Configuration: OHV/OHC

14. Type of Cooling: Liquid Cooled

16. Method of Aspiration: Natural

18. Number of Catalytic Converters: N/A

- 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: 2001

- Process Code: New (new, correction, revised, r/c, f/f, etc.)
- 5. Engine Family: 1HNXC01.5CBC 50s Eng. Code: N/A 49s Eng. Code: N/A Calif. Eng. Code: 1EN1
- 6. Emission Control System: PAIR
- 7. Calif. Designated Standard(g/km):  $\square$  N/A  $\boxtimes$  HC  $\square$  HC+NOx
- 8. Project Annual Sales: CONFIDENTIAL
- 19. Adjustable Parameters:

Parameters(s)	Adjustable Range (or N/A)	Tamper Resistance Method (or N/A)	Method Approved	
Carburetor Pilot Screw	Not Limited	Recess "D" shaped head that requires a special tool	Approved by EPA or 09/03/91	
			·	

1.4

#### 20. AECDs in the Emission Control System:

Exhaust System	Evaporative System
ABCDs In System: PAIR Check Valve PAIR Control Valve ECT Sensor	AECDs In System:   Evap CAV Control Valve



2001 HONDA Motorcycle

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Engine Family: 1HNXC01.5CBC

## Motorcycle Test Information Form

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

- a) If yes, indicate family name: XHNXC01.5CBC
- 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: GL1500CF
- 29. Test Information Number: X02
- 30. Vehicle ID: 99EN-01
- 31. Service Accumulation Duration(km): 15012
- 32. Maximum Rated Power (KW @ RPM): 77.6 @ 6000
- 33. Displacement (cc): 1520
- 34. Certification Fuel: Indolene
- 35. Test Data Set: 1
- 42. Exhaust Emission Deterioration Factor

- 36. Road Load(nt): 169.4
- 37. Inertia Mass(kg): 490
- 38. N/V: 30.1
- 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: Ves 🛛 No
- 41. If yes Vehicle Log Provided: N/A

		Emission Values					
Test Number	System Kilometers	HC	3	NOx	HC+NOx		
1	3599	0.93	5.9				
2	6554	1.06	6.2				
3	6583	1.05	6.8				
4	9659	0.99	6.4				
5	12944	1.07	6.9				
6	12974	1.03	6.5				
7	15012	1.04	6.9				
Interpolate	d Values at <u>15,000</u>	km:	HC = 1.0564 $HC + NOx =$	co = <u>6.8</u>	3741		
Extrapolate	d Values at <u>30,000</u>	km:	$HC = \frac{1.1460}{HC + NOx} =$	co = <u>7.8</u>	3771		



#### 43. Emission Test Results:

Official Test Results	631	Test 1	Test 2	Test 3	Test 4
g/km	8	6.9			
g/km	00,	138.5			
g/km	HC	1.04			
g/km	NOx				
g/km	HC+NOx				
g/km	Evap.	0.43			

Deterioratio Factors
1.146
1.085
0.1

### 44. Certification Levels:

g/km	8	(8)		-
g/km	HC	(1.1)	2	_
g/km	HC+NOx			
g/test	Evap.	0.5		

Application Processed by: Joseph Jegede Date: 5/3/2000 Reviewed by? - Had Date: 5/3/20

