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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-366
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:

<u>Engine Family</u>	<u>Displacement Cubic Centimeters</u>	<u>Class</u>	<u>Exhaust Emission Control Systems & Special Features</u>
YHNXC01.1ABE	1085	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 emission certification values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

<u>Hydrocarbon Standards (Corporate Average)</u>		<u>Hydrocarbons (Certification)</u>	<u>Carbon Monoxide (Standard) (Certification)</u>	
<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>
1.4	1.4	0.8	12	7

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 8th day of October 1999.



for R. B. Summerfield, Chief
Mobile Source Operations Division

Motorcycle Engine Family Information Form

0.14

1. Manufacturer: Honda Motor Co., Ltd.
2. Certification contact Person, address, phone, and fax:

Julie Barkow, 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_Barkow@ahm.honda.com

- | | |
|---|--|
| <ol style="list-style-type: none"> 3. Model Year: 2000 4. Process Code: New
(new, correction, revised, r/c, f/f, etc.) 5. Engine Family: YHNXC01.1AEE
 50s Eng. Code: N/A
 49s Eng. Code: YDK4
 Calif. Eng. Code: YDK1 6. Emission Control System: PAIR 7. Calif. Designated Standard(g/km): 1.4 8. Project Annual Sales: CONFIDENTIAL 9. New Technology: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
 If yes, cite the correspondence or reference the submittal document: 19. Adjustable Parameters: | <ol style="list-style-type: none"> 10. Displacement(cc): 1085 11. Number of Cylinder: 4 12. Cylinder Arrangement: 90 Degrees V-4 13. Cylinder Head Configuration: OHV/DOHC 14. Type of Cooling: Liquid Cooled 15. Combustion Cycle: Otto 16. Method of Aspiration: Natural 17. Fuel System: Carburetors 18. Number of Catalytic Converters: N/A |
|---|--|

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 on 09/03/91

20. AECDs in the Emission Control System:

Exhaust System	Evaporative System
AECDs In System: <u>PAIR Control Valve</u> _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	AECDs In System: <u>Evap CAV Control Valve</u> _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Application Processed by: <u>Joseph Tegede</u> Reviewed by: <u>[Signature]</u>	Date: <u>10/7/99</u> Date: <u>10/7/99</u>

Motorcycle Test Information Form

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

a) If yes, indicate family name: XHNXC01.1ABE

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: ST1100

36. Road Load(NT): 157.8

29. Test Information Number: N01

37. Inertia Mass(kg): 410

30. Vehicle ID: 92DK-02

38. N/V: 33.4

31. Service Accumulation Duration(km): 15017

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): 73.8 @ 7500

33. Displacement(cc): 1085

34. Certification Fuel: Indolene

40. Unscheduled Maintenance: Yes No

35. Test Data Set: 1

41. If yes Vehicle Log Provided:

42. Exhaust Emission Deterioration Factor

Test Number	System Kilometers	Emission Values	
		HC	CO
1	3708	0.64	7.5
2	6577	0.61	7.8
3	6607	0.61	7.9
4	9784	0.67	8.0
5	12977	0.83	7.1
6	13008	0.65	7.0
7	15017	0.65	7.2
Interpolated Values at <u>15,000</u> km:		HC = <u>0.7115</u>	CO = <u>7.1608</u>
Extrapolated Values at <u>30,000</u> km:		HC = <u>0.8404</u>	CO = <u>6.2064</u>

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	7.2			
g/km	CO ₂	114.9			
g/km	HC	0.65			
g/km	Evap.	0.88			

Deterioration Factors	
(X)	1.000 (0.867)
(X)	1.181
(+)	0.1

44. Certification Levels:

g/km	CO	7			
g/km	HC	0.8			
g/test	Evap.	1.0			

(): Calculated Value

Engine Family: YHNXC01.1ABE

Evaporative Emission Information

- | | |
|---|--|
| 45. Evaporative Family: YHNXE0028HZW
46. Number of Evap. Canisters: 1
47. Design Working Capacity(g): 28.0
48. Configuration: Open Bottom
49. Number of storage Areas: 1
50. Fuel Reservoir Volume(cc): 354
51. Vent System Configuration: Internal
52. Nominal Tank Capacity(liter): 28.0 | 53. Engine Displacement Class: III
54. Storage Medium Composition: Charcoal
55. Evap. Canister Medium Volume(cc): 680 +/- 12.7
56. Evap. Family Sales: CONFIDENTIAL
57. Engine Code: YDK1
58. Evap. Emission Family Code: 00ZW
59. Evap. Emission Family Group: H
60. Overall Evap D.F.= 0.1 |
|---|--|

Bench DF

61. Test Vehicle ID: 91DK-01
 62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3500	0.84
2	3500	0.75
3	3500	0.81
4	15000	0.83
5	15000	0.76
6	15000	0.73
7		
Interpolated Values at <u>15,000</u> km: =		<u>0.773</u>
Extrapolated Values at <u>30,000</u> km: =		<u>0.739</u>
Bench Test D.F. = <u>0.00</u> (calculated value = -0.03)		

Check One:	
Regular DF	X
Modified DF	
If Different Vehicle Specify Vehicle ID	

Vehicle DF

63. Test Vehicle ID: 91DK-01
 64. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3425	0.80
2	6264	0.98
3	6294	0.90
4	9702	1.04
5	12720	1.01
6	12749	0.95
7	15014	0.88
Interpolated Values at <u>15,000</u> km: =		<u>0.978</u>
Extrapolated Values at <u>30,000</u> km: =		<u>1.087</u>
Vehicle Test D.F. = <u>0.11</u>		