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California Environmental Protection Agency AIR RESOURCES BOARD	HONDA MOTOR CO., LTD.	EXECUTIVE ORDER M-2-393 New On-Road Motorcycles

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 2001 model-year engine and emission control systems (ECS) produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

Engine Family	Evaporative Family	Displacement (cm^3)	Class	ECS & Special Features
1HNXC01.0ABA	1HNXE0028PZF	996	III	PAIR

Vehicle Models (Equivalent Inertia Mass): VTR1000F (300 kg)

Production motorcycles shall be in all material respects the same as those for which certification is granted.

The exhaust emission standards and certification values in grams per kilometer for hydrocarbons (HC) and carbon monoxide (CO), and the HC evaporative (Evap) standard and certification value in grams per test for this engine/evaporative family are as follows. The designated HC standard shall be listed on the permanent tune-up label:

	HC	CO	Evap HC
Standard: (Effective Standard)	1.4	12	2.0 (1.8)
Designated Standard:	1.4	n/a	n/a
Certification:	0.5	9	0.6

BE IT FURTHER RESOLVED: That the designated HC standard shall be the exhaust limit for this engine family and cannot be changed during the model-year. It represents the HC exhaust emission standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

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 because the listed motorcycles are certified to 0.2 grams per test or more below the applicable evaporative emission standard, the vehicles are exempt from complying 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 22nd day of February 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O.#: M-2-393

Motorcycle Engine Family Information Form

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

4. Process Code: New
(new, correction, revised, r/c, f/f, etc.)

5. Engine Family: 1HNXC01.0ABA
50s Eng. Code: N/A
49s Eng. Code: 1DG1
Calif.Eng. Code: 1DG2

6. Emission Control System: PAIR

7. Calif. Designated Standard(g/km): ☐ N/A
☒ HC -1.4
☐ HC+NOx

8. Project Annual Sales: CONFIDENTIAL

9. New Technology: ☐ Yes ☒ No
If yes, cite the correspondence or reference the submittal document: N/A

10. Displacement(cc): 996

11. Number of Cylinder: 2

12. Cylinder Arrangement: 90 Degrees V-2

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

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 on 09/03/91

20. AECDs in the Emission Control System:

Exhaust System	Evaporative System
AECDs In System: PAIR Control Valve Throttle Position Sensor ECT Sensor	AECDs In System: Evap CAV Control Valve

Motorcycle Test Information Form

0.074

27. Are you carrying over test results from a previously certified family? ☒ Yes ☐ No
    a) If yes, indicate family name: WHNXC01.0ABA
    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: VTR1000F

29. Test Information Number: W02

30. Vehicle ID: 98DG-01

31. Service Accumulation Duration(km): 15012

32. Maximum Rated Power(kW @ RPM): 79.8 @ 8500

33. Displacement(cc): 996

34. Certification Fuel: Indolene

35. Test Data Set: 1

36. Road Load(nt): 135.4

37. Inertia Mass(kg): 300

38. N/V: 37.0

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: ☐ Yes ☒ No

41. If yes Vehicle Log Provided: N/A

42. Exhaust Emission Deterioration Factor

		Emission Values			
Test Number	System Kilometers	HC	CO	NOx	HC+NOx
1	3595	0.39	8.5		
2	6503	0.39	8.3		
3	6534	0.38	8.5		
4	9698	0.42	8.7		
5	12916	0.41	8.7		
6	12947	0.37	8.8		
7	15012	0.44	8.5		
Interpolated Values at 15,000 km:		HC = 0.4154	CO = 8.6883		
		HC+NOx =			
Extrapolated Values at 30,000 km:		HC = 0.4581	CO = 9.0129		
		HC+NOx =			

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

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4		Deterioration Factors
g/km	CO	8.5				(X)	1.037
g/km	CO_2	113.9					---
g/km	HC	0.44				(X)	1.103
g/km	NOx						---
g/km	HC+NOx					(X)	
g/km	Evap.	0.55				(+)	0.0

44. Certification Levels:

g/km	CO	9			
g/km	HC	0.5			
g/km	HC+NOx				
g/test	Evap.	0.6			

Application Processed by: Joseph Tegede Date: 2/21/01 Reviewed by: [signature] Date: 2/21/01