### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER M-2-374 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<br>Cubic Centimeters | <u>Class</u> | Exhaust Emission Control Systems<br>& Special Features |
|---------------|-----------------------------------|--------------|--|
| 1HNXC0.24AAA  | 244                               | Ш            | 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 certification emission values for this engine family:

| Hydrocarbons<br>(Standard)<br>Grams per<br>Kilometer<br>Hydrocarbons<br>(Certification)<br>Grams per<br>Kilometer |     | Carbon Monoxide<br>(Standard)<br>Grams per<br><u>Kilometer</u> | Carbon Monoxide<br>(Certification)<br>Grams per<br>Kilometer |
|---|-----|--|--|
| 1.0   | 0.9 | 12   | 9  |

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.

HONDA MOTOR CO., LTD.

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Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 17 day of April 2000.

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R. B. Summerfield, Chief Mobile Source Operations Division

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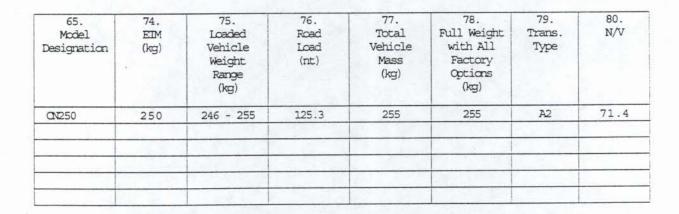
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ATTACHMENT

Engine Family: 1HNXC0.24AAA

# Motorcycle Model Summary Form

| 65.<br>Model<br>Designation | 66.<br>Worst<br>Case | 67.<br>Disp.<br>(cc) | 68.<br>Bore<br>/<br>Stroke<br>(mm) | 69.<br>Basic<br>Ignition<br>Timing<br>(degrees) | 70.<br>Power<br>(KW) | 71.<br>Rated<br>Speed<br>(RFM) | 72.<br>Rated<br>Torque<br>(Nm) | 73.<br>Rated<br>Speed<br>(RPM) |
|-----------------------------|----------------------|----------------------|------------------------------------|---|----------------------|--------------------------------|--------------------------------|--------------------------------|
| CN250                       | х                    | 244                  | 72.0 / 60.0                        | 12 (BTDC)                                       | 15.7                 | 7500                           | 22.6                           | 5500                           |
|                             | _                    |                      |                                    |   |                      |                                |                                |                                |
|                             |                      |                      |                                    |   |                      |                                |                                |                                |



| 2001 | HONDA | Motorcycle | 9 |
|------|-------|------------|---|
|------|-------|------------|---|

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## Motorcycle Engine Family Information Form

10. Displacement (cc): 244

11. Number of Cylinder: 1

15. Combustion Cycle: Otto

17. Fuel System: Carburetors

12. Cylinder Arrangement: Vertical

14. Type of Cooling: Liquid Cooled

16. Method of Aspiration: Natural

18. Number of Catalytic Converters: N/A

13. Cylinder Head Configuration: OHV/OHC

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, connection, revised, r/c, f/f, etc.)
- 5. Engine Family: 1HNXCO.24AAA 50s Eng. Code: 1EB1 49s Eng. Code: N/A Calif. Eng. Code: N/A
- 6. Emission Control System: EM
- 7. Calif. Designated Standard(g/km): 🛛 N/A
  - CONFIDENTIAL
- 8. Project Annual Sales:
- 9. New Technology: 🗌 Yes 🛛 No

If yes, cite the correspondence or reference the submittal document: N/A

19. Adjustable Parameters:

| Parameters (s)            | Adjustable Range<br>(or N/A)            | Tamper Resistance Method<br>(or N/A) | Method Approved |  |
|---------------------------|---|--------------------------------------|-----------------|--|
| Carburetor Pilot<br>Screw | Limited to 7/8 turn<br>leaner side only | Limiter cap                          | N/A             |  |
|                           |   |                                      |                 |  |
|                           |   |                                      |                 |  |

20. AECDs in the Emission Control System:

| Exhaust System          | Evaporative System   |
|-------------------------|----------------------|
| AECDs In System:<br>N/A | ABCDs In System:<br> |
|                         |                      |
|                         |                      |
|                         |                      |

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Engine Family: 1HNXC0.24AAA

# Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? Xes No a) If yes, indicate family name: XHNXCO.24AAA

b) Is the family being certified identical to the family from which the data is being carried over?

28. Model Designation of Test Vehicle: CN250

- 29. Test Information Number: GO1
- 30. Vehicle ID: 8688-21

31. Service Accumulation Duration (km): 9013

32. Maximum Rated Power (kW @ RPM): 15.7 @ 7500

- 33. Displacement (cc): 244
- 34. Certification Fuel: Indolene
- 35. Test Data Set: 1
- 42. Exhaust Emission Deterioration Factor

- 36. Road Load (nt): 125.3
- 37. Inertia Mass(kg): 250
- 38. N/V: 71.4

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

|              |                              |      | Emission                       | Check One:      |        |              |        |
|--------------|------------------------------|------|--------------------------------|-----------------|--------|--------------|--------|
| Test Number  | System Kilameters            | HC   | 0                              | NOx             | HC+NOx | Regular DF   | ×      |
| 1            | 2533                         | 0.89 | 9.6                            |                 |        | Modified DF  |        |
| 2            | 6320                         | 0.93 | 10.4                           |                 |        | If Different |        |
| 3            | 6350                         | 0.89 | 10.4                           |                 |        | Specify Vehi | cle ID |
| 4            | 9013                         | 0.88 | 9.3                            |                 |        | 1            |        |
| 5            |                              |      |                                |                 |        |              |        |
| 6            |                              |      |                                |                 |        |              |        |
| 7            |                              |      |                                |                 |        |              |        |
| Interpolated | 1 Values at <u>9,000</u> km  |      | IC = <u>0.8949</u><br>IC+NOx = | co = <u>9.8</u> | 3644   |              |        |
| Extrapolated | 1 Values at <u>18,000</u> km |      | C = 0.8869<br>C+NOx =          | co = <u>9.6</u> | 5794   |              |        |

#### 43. Emission Test Results:

| Official Test<br>Results |             | Test 1 | Test 2 | Test 3                                | Test 4 |
|--------------------------|-------------|--------|--------|---------------------------------------|--------|
| g/km                     | 00          | 9.3    |        |                                       |        |
| g/km                     | <i>CD</i> , | 68.3   |        |                                       |        |
| g/km                     | HC          | 0.88   |        | · · · · · · · · · · · · · · · · · · · |        |
| g/km                     | NOx         |        |        |                                       |        |
| g/km                     | HC+NOx      |        | 5      |                                       |        |
| g/km                     | Evap.       | 0.56   |        |                                       |        |

| E | eterioration<br>Factors |
|---|-------------------------|
|   | 1.000 (0.981)           |
|   |                         |
|   | 1.000 (0.991)           |
|   |                         |
| - | 0.0                     |

():Calculated Value

44. Certification Levels:

| g/km        | 00                   | (9)             |       |        |    |                |                     |
|-------------|----------------------|-----------------|-------|--------|----|----------------|---------------------|
| g/km        | HC                   | (0.9)           |       |        |    |                |                     |
| g/km        | HC+NOx               | -               |       |        |    |                |                     |
| g/test      | Evap.                | 0.6             |       |        |    |                |                     |
| Application | Processe<br>Reviewed | ed by:<br>1 by: | Josep | h Jege | de | Date:<br>Pate: | 4/11/2000<br>4/1/00 |

2001 HONDA Motorcycle

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Yes