

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-2-375
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> |
|----------------------|---|--------------|--|
| 1HNXC0.58AAA | 583 | III | 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 exhaust certification emission values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

| <u>Hydrocarbon Standards (Corporate Average) Grams per Kilometer</u> | <u>Hydrocarbons (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 | 0.9 | 0.7 | 12 | 9 |

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.

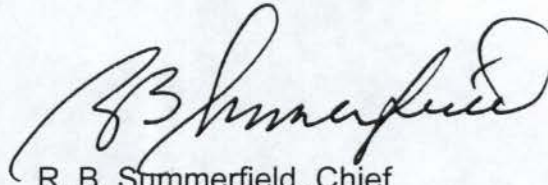
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

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 17th day of April 2000.



R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Family: 1HNXC0.58AAA

Motorcycle Test Information Form

0.34

27. Are you carrying over test results from a previously certified family? Yes No
 a) If yes, indicate family name: **XHNXC0.58AAA**
 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: VT600C
 29. Test Information Number: X01
 30. Vehicle ID: 99CC-01
 31. Service Accumulation Duration(km) : 15013
 32. Maximum Rated Power (kW @ RPM) : 28.3 @ 6500
 33. Displacement (cc) : 583
 34. Certification Fuel: Indolene
 35. Test Data Set: 1
 42. Exhaust Emission Deterioration Factor
36. Road Load(nt) : 139.5
 37. Inertia Mass(kg) : 320
 38. N/V: 41.6
 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:
 See Section 7 page 14

| Test Number | System Kilometers | Emission Values | | | |
|--|-------------------|--------------------|--------------------|-----|--------|
| | | HC | CO | NOx | HC+NOx |
| 1 | 3602 | 0.57 | 9.1 | | |
| 2 | 6385 | 0.58 | 9.6 | | |
| 3 | 6415 | 0.62 | 10.0 | | |
| 4 | 9755 | 0.59 | 9.6 | | |
| 5 | 12954 | 0.63 | 9.6 | | |
| 6 | 12984 | 0.61 | 8.8 | | |
| 7 | 15013 | 0.62 | 9.2 | | |
| Interpolated Values at <u>15,000</u> km: | | HC = <u>0.6239</u> | CO = <u>9.2564</u> | | |
| Extrapolated Values at <u>30,000</u> km: | | HC = <u>0.6823</u> | CO = <u>8.8188</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 | 9.2 | | | |
| g/km | CO ₂ | 77.3 | | | |
| g/km | HC | 0.62 | | | |
| g/km | NOx | | | | |
| g/km | HC+NOx | | | | |
| g/km | Evap. | 0.61 | | | |

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

| Deterioration Factors |
|-----------------------|
| 1.000 (0.953) |
| ----- |
| 1.094 |
| ----- |
| 0.2 |

(): Calculated Value

44. Certification Levels:

| | | | | | |
|--------|--------|-----|--|--|--|
| g/km | CO | 9 | | | |
| g/km | HC | 0.7 | | | |
| g/km | HC+NOx | | | | |
| g/test | Evap. | 0.8 | | | |

Application Processed by : Joseph Jegede
 Reviewed by : *[Signature]*

Date: 4/11/2000
 Date: 4/11/00