

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER M-3-306  
Relating to Certification of New Motorcycles

YAMAHA 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 Yamaha 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 &amp; Special Features</u>
YYMXC1.06GEB	1063	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</u>		<u>Hydrocarbons</u>		<u>Carbon Monoxide</u>	
<u>(Corporate Average)</u>	<u>(Designated)</u>	<u>(Certification)</u>	<u>(Standard)</u>	<u>(Certification)</u>	
<u>Grams per Kilometer</u>					
1.4	1.1	0.7	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.

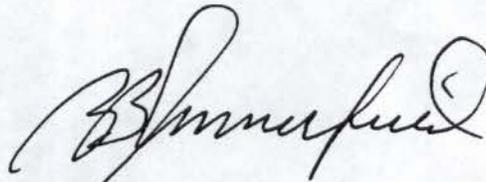
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 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 30<sup>th</sup> day of September 1999.



R. B. Summerfield, Chief  
Mobile Source Operations Division



**Motorcycle Engine Family Information Form**

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1. Manufacturer: YAMAHA MOTOR CO., LTD.
2. Certification Contact Person, address, phone and fax:

Name:	<u>Michael J. Schmitt</u> Division Manager Government Relations Yamaha Motor Corporation, U.S.A.	<u>Izumi Yamamoto</u> Engineer Engineering Administration Division Motorcycle Operations Group Yamaha Motor Co., Ltd. 2500 Shingai, Iwata-shi Shizuoka Pref. 438-8501, Japan (0538) 37-4148 (0538) 37-4095
Address:	<u>6555 Katella Avenue</u> Cypress, California 90630	
Phone No.:	<u>(714) 761-7710</u>	
Fax. No.:	<u>(714) 229-7940</u>	

3. Model Year: 2000
4. Process Code: Carry-over
5. Engine Family: YYMXCI.06GEB  
 50s Engine Code: v  
 49s Engine Code: -  
 Calif. Engine Code: -
6. Emission Control System: PAIR
7. Calif. Designated Standard: 1.1g/km
8. Projected Annual Sales:
9. New Technology Yes  No   
 If yes, cite the correspondence or reference the submittal document:
10. Displacement: 1063cc
11. Number of Cylinders: 2
12. Cylinder Arrangement: V-2 (75°)
13. Cylinder Head Configuration: OHC
14. Type of Cooling: Air
15. Combustion Cycle: 4
16. Method of Aspiration: Natural
17. Fuel System: Carburetor
18. Number of Catalytic Converters: N/A

19. Adjustable Parameters: N/A

Parameter(s)	Adjustable Range (or NA)	Tamper Resistance Method (or NA)	Method Approved

20. AECDS In the Emission Control Systems: N/A

Exhaust System	Evaporative System
AECDS In System:	AECDS In System:

PROCESSED BY: [Signature] DATE: 9/29/99  
 REVIEWED BY: [Signature] DATE: 9/29/99

Engine Family: YYMXC1.06GEB

### Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family?  Yes  No  
 a) If yes, indicate family name: YYMXC1.06GEB  
 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: XVS1100C  
 29. Test Information Number: 5EL  
 30. Vehicle ID: JYAVP11Y8XA000002  
 31. Service Accumulation Duration: 3 months  
 32. Maximum Rated Power: 47.8 kW @ 5750 RPM  
 33. Displacement: 1063 cc  
 34. Certification Fuel: Unleaded Gasoline  
 35. Test Data Set: 6

36. Road Load: 155.8 NT at 65km/h  
 37. Inertia Mass: 440 kg  
 38. N/V: 34.3  
 39. EVAP. Bench Test Method Approved:  
 Date: January 12, 1982  
 Reference:  
 40. Unscheduled Maintenance:  Yes  No  
 41. If yes, Vehicle Log provided: \_\_\_\_\_

42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	3697	0.71	9.1
2	7198	0.46	8.5
3	7233	0.60	8.3
4	13127	0.58	8.9
5	13185	0.63	8.5
6	14960	0.66	8.5
7	---	---	---
Interpolated Values at <u>15000</u> km: HC= <u>0.6084</u> CO= <u>8.5363</u>			
Extrapolated Values at <u>30000</u> km: HC= <u>0.6134</u> CO= <u>8.2508</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	8.5			
g/km	CO2	100.8			
g/km	HC	0.66			
g/km	Evap.	0.90			

Deterioration Factors	
(X)	0.9666 (1.000)
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(X)	1.0083
(+)	0.1174

44. Certification Levels:

g/km	CO	<u>8</u>			
g/km	HC	<u>0.7</u>			
g/km	Evap.	<u>1.0</u>			