

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER M-3-299  
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>
YYMXC.196GEA	196	II	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:

<u>Hydrocarbons (Standard) 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	0.7	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 1978 and Subsequent Model Motor Vehicles."

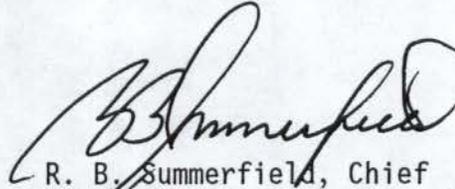
BE IT FURTHER RESOLVED: That these motorcycles are found exempt from compliance with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

YAMAHA 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 1st day of July 1999.



R. B. Summerfield, Chief  
Mobile Source Operations Division

**Motorcycle Engine Family Information Form**

1. Manufacturer: YAMAHA  
 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
Address:	<u>6555 Katella Avenue</u> Cypress, California 90630	<u>2500 Shingai, Iwata-shi</u> Shizuoka Pref. 438-8501, Japan
Phone No.:	<u>(714) 761-7710</u>	<u>(0538) 37-4148</u>
Fax. No.:	<u>(714) 229-7940</u>	<u>(0538) 37-4095</u>

3. Model Year: 2000  
 4. Process Code: Carry-over  
 5. Engine Family: YYMXC.196GEA  
 50s Engine Code: v  
 49s Engine Code: ---  
 Calif. Engine Code: ---  
 6. Emission Control System: EM  
 7. Calif. Designated Standard: N/A  
 8. Projected Annual Sales:  
 9. New Technology --- Yes v No  
 If yes, cite the correspondence or reference the submittal document:

10. Displacement: 196cc  
 11. Number of Cylinders: 1  
 12. Cylinder Arrangement: Single  
 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 AECDs In System:	Evaporative System AECDs In System:

Processed by: K. Pruzer Date: 6/23/99  
 Reviewed by: [Signature] Date: 6/30/99

Engine Family: YYMXC.196GEA

**Motorcycle Test Information Form**

27. Are you carrying over test results from a previously certified family?  Yes  No  
 a) If yes, indicate family name: HYA019641B9  
 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: TW200C      36. Road Load: 119.2 NT at 65km/h  
 29. Test Information Number: 2JX      37. Inertia Mass: 220 kg  
 30. Vehicle ID: JYA2JX004HC000099      38. N/V: 84.5  
 31. Service Accumulation Duration: 3 months      39. EVAP. Bench Test Method Approved:  
 32. Maximum Rated Power: 11.0 kW @ 7000 RPM      Date: January 12, 1982  
 33. Displacement: 196 cc      Reference:  
 34. Certification Fuel: Unleaded Gasoline      40. Unscheduled Maintenance:  Yes  No  
 35. Test Data Set: 4      41. If yes, Vehicle Log provided: \_\_\_\_\_

42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	2658	0.63	8.6
2	6166	0.65	8.8
3	6196	0.61	8.7
4	9063	0.64	8.8
5	---	---	---
6	---	---	---
7	---	---	---
Interpolated Values at <u>9000</u> km: HC= <u>0.6368</u> CO= <u>8.8197</u>			
Extrapolated Values at <u>18000</u> km: HC= <u>0.6498</u> CO= <u>9.1056</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	8.8			
g/km	CO2	51.2			
g/km	HC	0.64			
g/km	Evap.	1.44			

	Deterioration Factors
(X)	1.032
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(X)	1.020
(+)	0.000

44. Certification Levels:

g/km	CO	9			
g/km	HC	0.7			
g/km	Evap.	1.4			

