State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-3-296
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:

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
YYMXC.124GCA	124	I	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 (Standard) Grams per Kilometer	Hydrocarbons (Certification) Grams per Kilometer	Carbon Monoxide (Standard) Grams per Kilometer	Carbon Monoxide (Certification) Grams per Kilometer
1.0	0.6	12	8

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 28th day of June 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division

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Motorcycle Engine Family Information Form

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

Name:	Michael J. Schmitt Division Manager Government Relations Yamaha Motor Corporation, U.S.A.	Izumi Yamamoto Engineer Engineering Administration Division Motorcycle Operations Group Yamaha Motor Co., Ltd.
Address:	6555 Katella Avenue Cypress, California 90630	2500 Shingai, Iwata-shi Shizuoka Pref. 438-8501, Japan
Phone No:	(714) 761-7710	(0538) 37-4148
Fax. No:	(714) 761-7303	(0538) 37-4095

3. Model Year: 2000
4. Process Code: Carry-over
5. Engine Family: YYMXC.124GCA
   - 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: 124cc
11. Number of Cylinders: 1
12. Cylinder Arrangement: N/A
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: K. Pryor Date: 6/23/99
Reviewed by: S. Chen Date: 6/25/99

m-3-29b

Engine Family: YYMXC.124GCA

Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? v Yes ___ No
    a) If yes, indicate family name: FYA012441A0
    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: XC125C
29. Test Information Number: 50N
30. Vehicle ID: JYA50N006FA000098
31. Service Accumulation Duration: 3 months
32. Maximum Rated Power: 8.5 kW @ 8000 RPM
33. Displacement: 124 cc
34. Certification Fuel: Unleaded Gasoline
35. Test Data Set: 9
36. Road Load: 115.1 NT at 65km/h
37. Inertia Mass: 200 kg
38. N/V: 87.9
39. EVAP. Bench Test Method Approved:
    Date: January 12, 1982
    Reference:
40. Unscheduled Maintenance: ___ Yes v No
41. If yes, Vehicle Log provided: _____

42. Exhaust Emission Deterioration Factors:

		Emission Values	
Test Number	System Kilometers	HC	CO
1	2348	0.46	9.0
2	3844	0.47	9.5
3	3870	0.43	7.8
4	6012	0.52	7.9
5	6038	0.49	7.6
6	6064	0.48	7.5
7	6089	0.40	5.2
8	6100	0.30	4.7
9	6126	0.30	5.8
Interpolated Values at 6000 km: HC= 0.5056 CO= 7.9391			
Extrapolated Values at 12000 km: HC= 0.6132 CO= 6.0891			

Check one:	
Regular DF	v
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	7.6				(×)	0.7670
g/km	CO_2	42.0					---
g/km	HC	0.49				(×)	1.2130
g/km	Evap.	0.32				(+)	-0.0096

44. Certification Levels:

g/km	CO	8			
g/km	HC	0.6			
g/km	Evap.	0.3			

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Engine Family: YYMXC.124GCA

Motorcycle Model Summary Form

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70. Power (kW)	71. Rated Speed (RPM)	72. Rated Torque (Nm)	73. Rated Speed (RPM)
XC125	V	124	49.0 / 66.0	12	8.5	8000	10.8	6500

65. Model Designation	74. EIM (kg)	75. Loaded Vehicle Weight Range (kg)	76. Road Load (nt)	77. Total Vehicle Mass (kg)	78. Full Weight with All Factory Options (kg)	79. Trans. Type	80. N/V
XC125	200	---	115.1	102	107.40	AT	87.9