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)	Hydrocarbons (Certification)	Carbon Monoxide (Standard)	Carbon Monoxide (Certification)
Grams per Kilometer	Grams per Kilometer	Grams per Kilometer	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 28 day

day of June 1999.

R. B. Summerfield, Chief Mobile Source Operations Division

M-3-296

Section: 7 Page: 1 Issued: April 20, 1999

Revised:

Motorcycle Engine Family Information Form

Name:	Div	chael J. Schmitt vision Manager vernment Relations maha Motor Corporatio	on, U.S.A.	Izumi Yamamoto Engineer Engineering Administration Division Motorcycle Operations Group Yamaha Motor Co., Ltd.				
Address Phone No Fax. No	Cyr a: (7)	55 Katella Avenue press, California 90 14) 761-7710 14) 761-7303	0630	2500 Shingai, Shizuoka Pref (0538) 37-414 (0538) 37-409	Iwata-shi . 438-8501, Japan 8			
Model Year: Process Cod Engine Fami 50s Eng 49s Eng Calif.E	e: <u>Carr</u> ly: <u>YYN</u> ine Cod ine Cod	MXC. 124GCA e: e:	11 12 13 14	Displacement: Number of Cyl Cylinder Arra Cylinder Head Type of Cooli Combustion Cy	inders: <u>1</u> ngement: <u>N/A</u> Configuration: <u>OHC</u> ng: <u>Air</u>			
Emission Co	ntrol S nated S	ystem: <u>EM</u> tandard: N <u>/A</u>	16 17	. Method of Asp . Fuel System:	iration: <u>Natural</u>			
New Technol	ogy	Yes v No correspondence or re	ference					
If yes, ci the submit	tal doc	ument:	rerence					
If yes, ci the submit	tal doc Paramet	ers: N/A Adjustable Range	Tamper Resis		Method Approved			
If yes, ci the submit Adjustable	tal doc Paramet	ument: ers: N/A			Method Approved			
If yes, ci the submit Adjustable	tal doc Paramet	ers: N/A Adjustable Range	Tamper Resis		Method Approved			
If yes, ci the submit Adjustable Paramete	tal doc Paramet	ers: N/A Adjustable Range	Tamper Resis (or		Method Approved			
If yes, ci the submit Adjustable Paramete	tal doc Paramet r(s) e Emiss tem	ers: N/A Adjustable Range (or NA)	Tamper Resis (or N/A Evapor		Method Approved			

Processed by: K. Pryor Date: 6/23/99 Reviewed by: S. Chun Date: 6/21/99

Section: 7 Page: 4 Issued: April 20, 1999

Revised:

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 Deteriora	tion	Factors:
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	Emission Values		
System Kilometers	HC	CO	
2348	0.46	9.0	
3844	0.47	9.5	
3870	0.43	7.8	
6012	0.52	7.9	
6038	0.49	7.6	
6064	0.48	7.5	
6089	0.40	5.2	
6100	0.30	4.7	
6126	0.30	5.8	
	3844 3870 6012 6038 6064 6089 6100	System Kilometers H C 2348 0.46 3844 0.47 3870 0.43 6012 0.52 6038 0.49 6064 0.48 6089 0.40 6100 0.30	

Extrapolated Values at 12000 km: HC= 0.6132 CO= 6.0891

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lodified	DF		
f differ	ent	veh	icle
pecify v			

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	СО	7.6			
g/km	CO2	42.0			
g/km	HC	0.49			
g/km	Evap.	0.32			

 Factors
0.7670
1.2130
-0.0096

Deterioration

44. Certification Levels:

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

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Revised:

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
							N-1-1-