State of California AIR RESOURCES BOARD

EXECUTIVE ORDER M-3-300 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:

	Displacement		Exhaust Emission Control Systems
Engine Family	<u>Cubic Centimeters</u>	Class	& Special Features
YYMXC.223GEA	223	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:

Hydrocarbons	Hydrocarbons	Carbon Monoxide	Carbon Monoxide
(Standard)	(Certification)	(Standard)	(Certification)
Grams per	Grams per	Grams per	Grams per
Kilometer	Kilometer	Kilometer	Kilometer
1.0	0.9	12	10

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.

day of July 1999.

R. B./Summerfield, Chief Mobile Source Operations Division

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Revised:

Motorcycle Engine Family Information Form

Name:	Michael J. Schmitt Division Manager Government Relations Yamaha Motor Corpora			Administration Divisio Derations Group
Address:	6555 Katella Avenue Cypress, California	90630	2500 Shingai, Shizuoka Pref	
	(714) 761-7710 (714) 229-7940		(0538) 37-414 (0538) 37-409	18
	Carry-over YYMXC. 223GEA Code:	1 1 1		inders: <u>1</u> Ingement: <u>Single</u> I Configuration: <u>OHC</u>
Calif.Engine Code:			 Combustion Cy Method of Asp Fuel System: 	rcle: 4 Diration: <u>Natural</u>
New Technology	Yes v No	reference		
If yes, cite the submittal	document:	Terefellee		
If yes, cite	document: ameters: N/A	ge Tamper Resis	tance Method NA)	Method Approved
If yes, cite the submittal Adjustable Par	document: ameters: N/A Adjustable Rang	ge Tamper Resis		Method Approved
If yes, cite the submittal Adjustable Par Parameter(s	document: ameters: N/A Adjustable Rang	re Tamper Resis		Method Approved
If yes, cite the submittal Adjustable Par Parameter(s	document: ameters: N/A Adjustable Rang (or NA) mission Control System	Tamper Resis (or ms: N/A		Method Approved

Perocessed by: H. Prejor Reviewed by Total

Date: 6/23/99 Date: 6/30/99

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Revised:

Engine Family: YYMXC.223GEA

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: NYA022341A3 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: XT225C

29. Test Information Number: 4BE

30. Vehicle ID: JYA4BEC07NA013099

31. Service Accumulation Duration: 3 months

32. Maximum Rated Power: 13.4 kW @ 8000 RPM

33. Displacement: 223 cc

34. Certification Fuel: Unleaded Gasoline

35. Test Data Set: 4

36. Road Load: 117.1 NT at 65km/h

37. Inertia Mass: 210 kg

38. N/V: 67.3

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:

		Emissi	on Values
Test Number	System Kilometers	HC	CO
1	2656	0.75	6.7
2	6074	0.75	8.3
3	6104	0.80	7.6
4	9039	0.81	8. 2
5			
6			
7			

Interpolated Values at 9000 km: HC= 0.8058 CO= 8.4267

Extrapolated Values at 18000 km: HC= 0.8899 CO= 10.5831

Marie Del	_
Modified DF	
If different vehic	le
specify vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	СО	8. 2			
g/km	CO2	46.3			
g/km	HC	0.81			
g/km	Evap.	1.33			

	Factors
(X)	1.2559
(X)	1.1044

0.0988

44. Certification Levels:

g/km	CO	10	- DESTRUCTION
g/km	HC	0.9	
g/km	Evap.	1.4	

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Revised:

Engine Family: YYMXC.223GEA

Motorcycle Model Summary Form

XT225 223 70.0 / 58.0 10 13.4 8000 16.9	8000 16.9 6500
XT225C v 223 70.0 / 58.0 10 13.4 8000 16.9	8000 16.9 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
XT225	210		117.1	124	128.70	MT-6	67.3
XT225C	210		117.1	124	128. 70	MT-6	67.3
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7.5.7.5							