

Joseph J.

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 the following 2000 model-year engine and emission control systems (ECS) produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

<u>Engine Family</u>	<u>Evaporative Family</u>	<u>Displacement (cm³)</u>	<u>Class</u>	<u>ECS & Special Features</u>
YCCCC01.9SRJ	YCCCE0066SRJ	1639, 1754, 1853	III	EM

Vehicle Models (Equivalent Inertia Mass): Colorado (390 kg), Mojave (390 kg), Sierra (390 kg)

Production motorcycles shall be in all material respects the same as those for which certification is granted.

The exhaust emission standards and certification values in grams per kilometer for hydrocarbons (HC) and carbon monoxide (CO), and the HC evaporative (Evap) standard and certification value in grams per test for this engine/evaporative family are as follows:

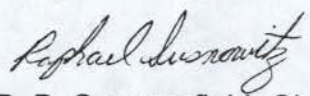
	<u>HC</u>	<u>CO</u>	<u>Evap HC</u>
<u>Standard: (Effective Standard)</u>	1.4	12	2.0 (1.8)
<u>Certification:</u>	1.0	8	0.9

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 because the listed motorcycles are certified to 0.2 grams per test or more below the applicable evaporative emission standard, the vehicles are exempt from complying 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 21st day of September 2000.


 R. B. Summerfield, Chief
 Mobile Source Operations Division

Motorcycle Engine Family Information Form

1. Manufacturer: **Carefree Custom Cycles**
2. Certification Contact Person, address, phone, and fax:

Kathleen H. Wolf Harrison / Wolf 1275 N. Indian Hill Blvd. Claremont, CA 91711	tel. 909-626-1395 fax. 909-626-2906
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3. Model Year: **2000**
4. Process Code: **N**
(new, correction, revision, r/c, f/f. etc.)
5. Engine Family: **YCCCC01.9SRJ**
 50s Engine Code: _____
 49s Engine Code: X
 Calif. Engine Code: X
6. Emission Control System: **EM**
7. Calif. Designated Standard: n/a
8. Projected Annual Sales:
CONFIDENTIAL
9. New Technology ___ Yes **X** No
 If yes, cite the correspondence or reference the submittal document: _____

10. Displacement: **1639, 1754, 1853 cc**
11. Number of Cylinders: **2**
12. Cylinder Arrangement: **45° V-Twin**
13. Cylinder Head Configuration: **OHV**
14. Type of Cooling: **Air**
15. Combustion Cycle: **4 stroke**
16. Method of Aspiration: **normal**
17. Fuel System: **carbureted**
18. Number of Catalytic Converters: n/a

19. Adjustable Parameters:

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

20. AECDS In the Emission Control Systems:

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

Engine Family: YCCCC01.9SRJ

Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? Yes No 0.04
 a) If yes, indicate family name: _____
 b) Is the family being certified identical to the family from which the data is being carried over?

28. Model Designation of Test Vehicle: **Colorado**

36. Road Load: **153.8**

29. Test Information Number: **1**

37. Inertia Mass: **390 kg**

30. Vehicle ID: **AZ224039**

38. N/V: **26.4**

31. Service Accumulation Duration: **15,000 km**

39. EVAP. Bench Test Method Approved:

Date: **N/A**

32. Maximum Rated Power **102 kW @ 5500 RPM**

Reference: _____

33. Displacement **1639 cc**

40. Unscheduled Maintenance: Yes No

34. Certification Fuel: **Indolene**

41. If yes, Vehicle Log provided: _____

35. Test Data Set: **1**

42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	3523	0.8340	9.0340
2	5050	0.7440	10.1620
3	6457	0.7140	10.2200
4	8207	0.8860	8.1740
5	12083	0.8170	7.5120
6	14986	0.8790	7.6020
7			
Interpolated Values at 15000 km:		HC = 0.865	CO = 7.335
Extrapolated Values at 30000 km:		HC = 0.983	CO = 4.049

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	7.6020			
g/km	CO ²	133.497			
g/km	HC	0.8790			
g/test	Evap.	0.420			

(X)

(X)

(+)

Deterioration Factors
1.000

1.137
0.5

44. Certification Levels:

g/km	CO	7.602		
g/km	HC	0.999		
g/test	Evap.	0.920		

Application Processed by: *Joseph Jegede*
 Reviewed by: *Joe [Signature]*

Date: *9/21/2000*
 Date: *9/21/2000*

Engine Family: YCCCC01.9SRJ

Evaporative Emission Information

- | | |
|--|--|
| 45. Evaporative Family: YCCCE0066SRJ | 53. Engine Displacement Class: III |
| 46. Number of Evap. Canisters: <u>1</u> | 54. Storage Medium Composition: charcoal |
| 47. Design Working Capacity: _____ | 55. Evap. Canister Medium Volume: _____ |
| 48. Configuration: _____ | 56. Evap. Family Sales: <u>40</u> |
| 49. Number of Storage Areas: _____ | 57. Engine Code: _____ |
| 50. Fuel Reservoir Volume: _____ | 58. Evap. Emission Family Code: YCCCE0066SRJ |
| 51. Vent System Configuration: _____ | 59. Evap. Emission Family Group: _____ |
| 52. Nominal Tank Capacity: 5 gal. | 60. Overall Evap D.F. = <u>0.5</u> |

Bench DF

61. Test Vehicle ID: _____
62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1		
2		
3		
4		
5		
6		
7		
Interpolated Values at _____ km: = _____		
Extrapolated Values at _____ km: = _____		
Bench Test D.F. = _____		

Check One:	
Regular DF:	<input type="checkbox"/>
Modified DF:	<input type="checkbox"/>
If different vehicle specify the vehicle ID	

Vehicle DF

63. Test Vehicle ID: AZ224039
64. Test Results.

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	14986	0.420
2		
3		
4		
5		
6		
7		
Interpolated Values at _____ km: = _____		
Extrapolated Values at _____ km: = _____		
Vehicle Test D.F. = <u>0.5</u>		