State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-W-8-7 Relating to Certification of New Spark-Ignition Marine Engines

BOMBARDIER MOTOR CORPORATION OF AMERICA

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, and 43104 of the Health and Safety Code; 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 new spark-ignition marine engine and exhaust emission control system produced by the manufacturer is certified as described below.

Model Year: 2001

<u>Fuel Type</u>: Gasoline <u>Engine Type</u>: 1 - Stroke

Level of Cleanliness: Very Low Emission Two Stars")

Equipment Application: Outboard

Engine Family: 1BCXM0105220

Displacement: 1727 cc

Exhaust Emission Control Systems and Seecial Features:

Electronic Control Module Direct Fuel Injection

Engine models are listed on the attachment. Production engines shall be in all material respects the same as those for which certification is granted.

BE IT FURTHER RESOLVED: That the manufacturer has opted to certify, and has certified the listed engines to the hydrocarbon plus oxides of nitrogen (HC+NOx) exhaust emission standard described below, expressed in grams per kilowatt-hr (g/kW-hr) under Section 2442(b) of Title 13, California Code of Regulations (13 CCR).

HC + NOx (estimated) Standard	Certification <u>Level</u>
37.70	34.04

Compliance with the standard under 13 CCR Section 2442(b) shall be determined based on the sales-weighted average power of the engine family based on engines produced in this family for sale in California. This engine family shall not be used to determine compliance through corporate averaging.

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BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with the following California emission regulations and requirements. Engines certified under this Executive Order shall conform to all applicable California emission regulations and requirements:

- All applicable requirements in the "California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines"
- Emission Control Labeling and Consumer/Environmental Labeling (13 CCR Sections 2443.1, 2443.2 and 2443.3)
- Emission Control System Warranty (13 CCR Sections 2445.1 and 2445.2)
- Closed Crankcases (Part 1, Section 18. (h) of the "California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines")
- Quarterly reports of engines produced in this family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

Executed at El Monte, California this 27 day of April 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Model Year: 2001

Manufacturer Name: Bombardier Motor Corporation of America Engine Family: 1BCXM0105220

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ATTACHMENT

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SI Marine Engine Model Summary Form

	54.		ECS		ECM,DFI	ECM,DFI	ECM, DFI	ECM, DFI	ECM,DFI	ECM, DFI					
44. Engine Family Sales-Weighted Power: 62,5 kW	53.	Torque	Speed	(ואוראר)	2500	2500	2500	2500	2500	2500					
	52.	Rated	Torque	(111-41)	213.6	213.6	213.6	256.3	256.3	256.3					
	51.	Rated	Speed	(INLLVI)	2000	2000	2000	5500	5500	5500					
	50.		Power	(KW)	56.0	56.0	56.0	67.1	67.1	67.1					
	49.		Basic Ignition Timing	(deg (@) idle)	Determined by ECM										
	48.		Bore/Stroke	(mm)	91.44/65.74	91.44/65.74	91.44/65.74	91.44/65.74	91.44/65.74	91.44/65.74					
	47		Disp. (cc)	1	1727	1727	1727	1727	1727	1727					•
		ر د	50-State	;	×	×	×	×	×	×					
	46	Sales Codes	49-State												
			Calif.	Sing O											
	45.	Model	Designation		E75FPLSI	E75FSLSI	E75FSXSI	E90FPLSI	E90FSLSI	E90FSXSI					

Note: The Rated Torque (Item 52) is the calculated propeller shaft torque based on the gear ratio of the gearcase and the Rated Power (Item 50) and the Rated Speed (Item 51) of the engine.