

*File*

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-331-1  
Relating to Certification of New Motor Vehicles

BOMBARDIER INC.

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 1998 model-year Bombardier Inc. new pure electric motor vehicles are certified as described below for passenger cars:

Emission Standard Category: Zero-Emission Vehicle (ZEV)

Fuel Type: Battery-Stored Electricity

Battery Type: Lead Acid

Vehicle Model: Sport-e; Class-e

BE IT FURTHER RESOLVED: That because the listed vehicle models are powered by battery-stored electricity and have no on-board systems which consume any fuel other than electricity, the vehicles produce zero exhaust or evaporative emissions of any criteria pollutant (or precursor pollutant) and therefore qualify as ZEVs according to Title 13, California Code of Regulations, Section 1960.1(g)(1), note (2.1); the listed vehicle models also meet the definition of "low-emission motor vehicle" set forth in Health and Safety Code Sections 39037.05 and 43800.

BE IT FURTHER RESOLVED: That the listed vehicle models have been demonstrated, based on the vehicle range capabilities or on the specific energy of the battery, to qualify for and shall be granted one ZEV credit pursuant to Title 13, California Code of Regulations, Section 1960.1(g)(2), note (9)a.

BE IT FURTHER RESOLVED: That the listed vehicles models shall not be equipped with any fuel-fired auxiliary power sources or heaters.

BE IT FURTHER RESOLVED: That the listed vehicle models shall comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models shall be clearly labeled as "low-emission motor vehicles" pursuant to the requirements of Health and Safety Code Section 43802(a).

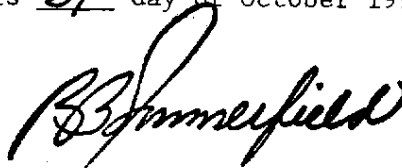
BE IT FURTHER RESOLVED: That because the vehicles certified by this executive order have no parts that affect emissions for which there is an applicable emission requirement, the manufacturer is not required to provide an emission control system warranty pursuant to Health and Safety Code Section 43205 or Title 13, California Code of Regulations, Sections 2035 et seq.

Quarterly production reports shall be submitted to the Executive Officer no later than 45 days after the end of each quarter.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 29<sup>th</sup> day of October 1998.



R. B. Summerfield, Chief  
Mobile Source Operations Division

98-99 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV - PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Bombardier Inc. Engine Family: Electric  
Veh Class(es): PC  LDT1  LD12  MDV1  MDV2  MDV3  MDV4   
MDV5

No. of ZEV Credits per vehicle: 1

Fuel Type: Electric chemical Battery  Fuel Cell  Capacitor  Other (specify)

Battery Type(s): Lead Acid  Nickel Cadmium  SBLA  Sodium Sulfur   
Sodium Nickel Chloride  Nickel Metal Hydride  Lithium Metal Disulfide   
Zinc Air  Zinc Bromine  Lithium polymer  Other (specify)

Prop. Battery Weight: 166 kg. Battery Volume: 4284 sq. in. Battery specific energy: 28.2 Wh/kg

Acces. Battery Weight: 12 kg. Total Battery Volume: 273 sq. in. Battery specific energy: 23.0 Wh/kg

\* Battery specific energy is based on a «rcal life» Bombardier test cycle. Battery specific energy would be 32.5 Wh/kg and 39.0 Wh/kg respectively according to C/2 and C/6 tests (SAE 1798).

No. of batteries or modules per vehicle: 6X12V (Prop.) + 1X12V (Acces.)

Battery Voltage: 72V (Prop.) + 12V (Acces.)

Charger(s): on-board  off-board  conductive  inductive

Drive Motor(s): AC Induction  DC Brush  DC Brushless   
Switched Reluctance  Other (specify): DC Brush Shunt

No. of Drive Motors 1 Rated motor power 4 kw @ 3600 rpm Max rpm: 4000

Drive: FWD  RWD  4WD-FT  4WD-PT

Regenerative Braking: No  Yes  FW  RW  AW

Driver Controlled Regen Braking: Yes  No  Coast Regen Braking: Yes  No

Air Conditioning: Yes  No

Fuel Fired Heater: Fuel Type: Gas  Diesel  CNG  LNG   
LPG  Other (specify):  Rated Heat Power  kw

Vehicle Models (If coded, see attachment)	Trans type M5, A4 (if applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA or RLHP
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Sport-e &  
Class-e                      N/A                      1775 lbs                      1275 lbs                      1425 lbs                      1.5 HP (1125 W) @ 20 MPH

Date Issued:

Revisions: