File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-349-0001
Relating to Certification of New Motor Vehicles

ZONE ELECTRIC CAR, LLC

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 new pure electric motor vehicles are certified as described below:

Model Year: 2002

Vehicle Type: Passenger Car

Exhaust Emission Standard Category: Zero-Emission Vehicle (ZEV)

Fuel Type: Battery-Stored Electricity

Engine Family: 2ZNEV00.0RRR

Battery Type: Lead Acid

Vehicle Model: Renegade

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicles per Title 13, California Code of Regulations, Section 1962 (b)(3) (Implementation Prior to 2003 Model Year).

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 1962 (a); 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 qualify for and shall be granted a per-vehicle ZEV credit equal to 0.068 grams non-methane organic gases (NMOG) per mile (for early introduction) without a ZEV multiplier applicable to extended electric range vehicles pursuant to Title 13, California Code of Regulations, Section 1962 (d).

BE IT FURTHER RESOLVED: That the listed vehicle 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 vehicle" 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, Section 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 18th day of April 2002.

Raphael Susnowitz

for Allen Lyons, Chief
New Vehicle/Engine Programs Branch

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2002 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV–PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES 5.0

Manufacturer: ZONE Electric Car, LLC Engine Family: 2ZNEV00.0RRR
Veh Class(es): PC X LDT1__ LDT2__ MDV1__ MDV2__ MDV3__ MDV4__ MDV5__ NEV X
No. of ZEV Credits per vehicle: 0.068 g/mile
Fuel Type: Electro chemical Battery__ Fuel Cell__ Capacitor__ Other(specify) Electric
Battery Type(s): Lead Acid X Nickel Cadmium__ SBLA__ Sodium Sulfur__
Sodium Nickel Chloride__ Nickel Metal Hydride__ Lithium Metal Disulfide__
Zinc Air__ Zinc Bromine__ Lithium polymer__ Other(specify):__
Total Battery Weight: 248 lb Total Battery Volume: 4 Battery specific energy: 4 @ 150 Amp hr
No. of batteries or modules per vehicle: 4 Total Battery Voltage: 48
Charger(s): on-board__ off-board X conductive X inductive__
Drive Motors(s): AC Induction__ DC Brush X DC Brushless__
Switched Reluctance__ Other(specify):__
No. of Drive Motors 2 Rated motor power 3hp (continuous) @ 2400 rpm (5hp peak) Max rpm: 2700
Drive: FWD__ RWD X 4WD-FT__ 4WD-PT__
Regenerative Braking: No X Yes__ FW__ RW__ AW__
Driver Controlled Regen Braking: Yes__ No X Coast Regen Braking: Yes__ No X
Air Conditioning: Yes__ No X
Fuel Fired Heater: Fuel Type: Gas__ Diesel__ CNG__ LNG__
LPG__ Other(specify): NONE 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
Renegade		1250	600	1000 lbs.	13.96

Date Issued: 4-2-2002
Revisions: