

File

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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).

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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.


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: ZZNEV00.0RRR
 Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5 NEV
 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 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 conductive inductive
 Drive Motors(s): AC Induction DC Brush DC Brushless
 Switched Reluctance Other(specify):
 No. of Drive Motors 2 Rated motor power 3hp @ 2400 rpm ^{continuous} Max rpm: 2700
 Drive: FWD RWD 4WD-FT 4WD-PT ^{15hp peak}
 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): 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 RLRP
<u>Renegade</u>		1250	600	1000 lbs.	13.96

Date Issued: 4-2-2002

Revisions: