File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-342-0002-A
Relating to Certification of New Motor Vehicles

WESTERN GOLF CAR MANUFACTURING, 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 the following new pure electric motor vehicles are certified as described below:

Model Year: 2002

Vehicle Type: Passenger Car

Emission Standard Category: Zero-Emission Vehicle (ZEV)

Fuel Type: Battery-Stored Electricity

Engine Family: 2WGMV0100LST

Battery Type: Lead Acid

Vehicle Model: Viper, 400 Flatbed, 400-4, 400, 100-LST, Anthem, 300 LST, Elegante I, Elegante II, Elegante Limo

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicles per Title 13, California Code of Regulations, Sections 1962 (b)(1)(c) and (b)(3) (Small Volume Manufacturers and 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 0.068 grams non-methane organic gases (NMOG) per mile ZEV credits 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 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 25TH day of March 2002.

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

Manufacturer: WESTERN GOLF CAR Engine Family: ELECTRIC 2WGMV0100LST
Veh Class(es): PC_x LDT1__ LDT2__ MDV1__ MDV2__ MDV3__ MDV4__ MDV5__
No. of ZEV Credits per vehicle: 1
Fuel Type: Electro chemical Battery x Fuel Cell__ Capacitor__ Other(specify)____
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: 510 Total Battery Volume: 3.5ft Battery specific energy: 37.5w/kg
No. of batteries or modules per vehicle: 7 Total Battery Voltage: 42
Charger(s): on-board__ off-board x conductive__ inductive__
Drive Motors(s): AC Induction__ DC Brush x DC Brushless__
Switched Reluctance x Other(specify):____
No. of Drive Motors 1 Rated motor power 7HP @3000 rpm Max rpm: 5000
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__
Air Conditioning: Yes__ No x
Fuel Fired Heater: Fuel Type: Gas__ Diesel__ CNG__ LNG__
LPG__ Other(specify): ELECTRIC Rated Heat Power: 1 kW

Vehicle Models (If coded see attachment)	Trans. type M5, A4 (if applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA or RLHP

SEE ATTACHMENT

Date Issued:

Revisions:

ED# A-342-2-A Pg. 2

Western, Models Year 2002

Manufacture: Western Golf Car Manufacturing, Inc.

Engine Type: Electric 2WGMV0100LST

Vehicle Class: PC/NEV

Fuel Type: Battery, Lead Acid

Total battery weight: 510 lbs

Total battery volume: 3.5 cubic feet

Battery pack specific energy 37.5 w/kg

No. of batteries per vehicle: 7

Total battery voltage: 42

Charger: off-board

Drive motor: Series wound DC-Brush

No. of motors: 1

Rated motor power: 7hp

Drive: RWD

Regenerative breaking: No

Coast Regenerative Breaking: No

Vehicle Model (If coded attachment)	Trans. Type M5, A4 (if applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA or RLHP
65 Viper	N/A	1168	838	1003	NA
64 400 Fleatbed	N/A	1083	753	918	"
66 400-4 Model	N/A	1184	854	1019	"
62 400 Model	N/A	1170	840	1005	"
31 100-LST	N/A	1283	953	1118	"
32 Anthem	N/A	1067	737	902	"
33 300 LST	N/A	1203	873	1038	"
51 Elegante I	N/A	1329	999	1164	"
52 Elegante II	N/A	1315	985	1150	
53 Elegante Limo	N/A	1324	994	1159	