

Charged Up



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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Treasurer: Richard Rodriguez

Secretary: David Crow

Program Chairman: Staff

Newsletter Editor: David Crow

Webmaster: Russ Lemon

Librarian & AV: Lloyd Rose

Monthly Meetings: During the 4th week of the month, day depends on venue.

(No Meeting in December).

Meeting Location, Date and Time:

Center for Sustainable Energy

9325 Sky Park Court, Suite 100

San Diego, CA 92123

Tuesday, 25 August 2015, 7:00 P.M.

Program: CSE Presentation and discussion

Newsletter Topics:

Classic EV



They're Back



Local Service adding EVs



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Message from the President

Hi All,

E-tron Quattro. Electric Aston Martin. Electric Bentley. The list is getting large for exotic electric cars. The amusing thing is once upon a time the electric car market was targeted for the cost smart, energy saving, green minded consumer. It was to be, well, my Nissan Leaf. An economy car. A car that would sell by the millions to everyday folks like me. But wait, electric motors have incredible torque. So Tesla figures out targeting people with big money is a great starting point. They were correct.

Now, we are seeing a lot more exotics get the main stage for speed and excess. The good part is people are realizing electric car doesn't mean golf cart. I just hope it doesn't stop the progress of those models they need to sell by the millions to focus on the elite. Also, it's not the right image to burn your petroleum based tires down to the ground into a giant toxic plume of death smoke to show off your electric car (albeit very fun to watch). Hope to see you all at our next meeting!

-Joseph



Aston Martin Rapide, possible 800 HP EV

Rock West Racing's RW Speedster Goes Electric

By David White

EL CAJON, Calif. - The original 50's Porsche 356 Speedster is a masterpiece that will be loved until the end of time. For the most part owning and driving one of those original beauties is out of reach. Besides, there could be some hesitation when driving it hard around town. The solution to the problem is to build Rock West Racing's RW Speedster. To make the little Speedster kit even cooler, EV West supplies an AC induction electric kit that bolts right in. Rock West Racing (RWR) teamed up with the local electric vehicle conversion experts at EV West to create the RW Speedster Electric.

The RW Speedster Electric seen here in a stunning three stage Porsche Conda Green with Kameleon Green to Gold Pearl is an example of what this kit can be. RWR supplies the car in three different kit levels: Builder, Deluxe, and Roller. The complete electric drivetrain kit was designed by EV West for smooth clean power and RWR integrated the proper mounts and brackets to fit the electric kit seamlessly to the RW Speedster.



The Speedster gets its power from a three-phase HPEVS AC-50 brushless electric motor. This unit bolts right up to the VW IRS 4-speed transmission using an adapter plate supplied by EV West in the kit. The AC-50 motor puts out 90 hp with 121 ft-lbs of torque and redlines at 7000rpm. For a finished car weighing in under 1900lbs, these are pretty good numbers. The three phases of the motor get hooked up to the liquid cooled Curtis controller. The controller gets its power from 8 Lithium Ion battery packs. Eight battery packs gives you a 120 volt system with 24kWh, which will give you a range of 60-100 miles depending on driving style. The 100 mile range is better than the VW E-Up electric car and the Smart Car, and it matches the electric Ford Focus and Nissan Leaf in the range department. The 12 volt system gets charged by a 30 amp DC/DC converter. The 120 volt system gets charged by an on-board elcon charger giving it a full charge in about 8 hours. You can cut the charging time down to 4 hours simply by adding a second on-board charger. Another feature that comes in the kit is regenerative braking. With regen-braking the batteries get a charge when the brakes are activated. Can't get much cooler than that in an already super cool Speedster.

The kit comes with a few other things: a battery monitor/state of charge gauge, and a Driveline status gauge, so you know what's going on with the electrical system; a fly-by-wire accelerator pedal; a charging port for the car and a charging station for its home.

RWR offers an awesome tribute to a classic that gets attention in any crowd. EV West offers an electric power plant that makes the car feel powerful and modern. This build combines Rock West Racing and EV West designs to create a fun, eco-friendly kit.



Vehicle Specs

Model name: Rock West Racing Speedster Electric
 Color: Porsche Conda Green with Kameleon Green to Gold Pearl
 Drive type: Rear Wheel Drive. 100% Electric plug-in
 Length: 146.5"
 Width: 64.5"
 Weight: 1860lbs
 Wheel base: 84.25"

Drivetrain Specs

Motor: HPEVS AC-50 Brushless AC Motor 96v
 Type: AC Induction
 Peak Horsepower: 90
 Torque ft-lbs: 121
 RPM: 7,000
 Transmission: VW Type 1 IRS 4 speed manual w/ clutch
 Adapter plate: EV West VW Air Cooled Billet Aluminum Transmission Adapter
 Controller: HPEVS Curtis 1238-7601 96V 650 AMP Controller
 Controller cooling system: XSPC AX240 Liquid Cooling Kit w/ Curtis 1238-1239 Chill Plate
 Batteries: (8) Tesla Repurposed Lithium Ion battery packs
 Battery capacity: 120 Volt, 24kWh
 Battery monitor/state of charge meter: TBS Electronics e-xpert pro
 Converter: DC/DC Converter 400W 30 Amp Isolated 72-144 Volts
 Onboard charger: Elcon PFC2500 Charger
 Charging Station: Siemens VersiCharge Gen 2 EVSE Level 2 Charging Station 30 Amps
 Charge port: Dostar J1772 32A Receptacle
 Re-charge time: 8 hours
 Meter: Curtis Driveline Status display
 Driving range: up to 100 miles
 Accelerator Pedal: Electric drive-by-wire pedal

<http://www.amx390.com/videos/RockWestEV2.mov>

Fisker to Start Making Cars Again

Mon, 08/17/2015, Andy Szal, Manufacturing Business Technology

A highly touted electric vehicle maker appears ready to return from the dead.

The Los Angeles Times reports that Fisker Automotive signed an 11-year, \$30 million lease for a factory in Moreno Valley, located some 60 miles east of Los Angeles in Southern California's Inland Empire. The report said that new Fisker plug-in hybrid cars could go on sale as early as mid-2016.

Fisker in 2009 received a \$529 million loan commitment from the U.S. Department of Energy, and its Karma plug-in hybrid model sold well despite the \$100,000 price tag. Subsequent battery problems, however, triggered a recall and the company declared bankruptcy in 2013. The company sold less than 2,500 cars and plans to build new vehicles at a former General Motors facility in Delaware never materialized. The government said that it lost \$139 million on the loan.



Chinese auto parts giant Wanxiang Group ultimately bought Fisker for \$149 million, and spent another \$257 million for A123 Systems, which made Fisker's batteries. Company namesake and co-founder Henrik Fisker — who resigned in 2013 — said up to 20 of his original designers are working for the revamped company, although he said he isn't sure what, if any, role he would have. "I am not certain about my role, but I am happy that what we created is not for nothing," Fisker told the Times.

The Fisker plant would add another electric car manufacturer in California; Tesla makes cars in Fremont in the Bay Area. It would be the first auto production in Southern California since GM shuttered its Van Nuys plant in 1992. The plant is expected to employ about 150 workers.

"It's a whole new industry we don't have in Southern California," Moreno Valley economic development chief Mike Lee told the Los Angeles Business Journal. SDG&E officials said the hikes are due to mandates involving renewable energy and a delay in passing on previous rate increases.

One lawmaker, San Diego Assemblywoman Shirley Weber said she's investigating why electricity costs have risen a combined \$30 million for 42 local public school districts in San Diego County this past year.

BYD supplying e6 electric cars to San Diego ride sharing program

August 4, 2015

Opoli Technologies, a ride sharing service based in San Diego, is the first to be granted access to the San Diego airport. It functions using a name-your-price model. With its smart phone app, drivers and ride seekers agree on a fare, 100% of which goes to the driver's account. Rides can be booked in advance or on demand via the Opoli app, available for iOS and Android.

BYD is China's largest maker of electric vehicles and will provide 50 of its all-electric e6 EVs to the Opoli fleet. It features two hub motors with a total of 100 horsepower and regenerative braking. The BYD e6 has an innovative 61 kWh lithium iron phosphate battery that gives the car 185 miles of range – considerably more than any other electric vehicle available in America except the Tesla Model S. The breakthrough battery is fireproof and 100% recyclable, unlike traditional lithium-ion batteries.



The BYD e6 is currently used in taxi and municipal fleets in New York, San Francisco and Chicago. It also is in use in Hong Kong, London, Singapore, Rotterdam, Bogota and Rio de Janeiro.

“At Opoli we continue to seek out and provide an affordable solution to the transportation problems that plague metropolitan areas,” said Rattan Joea, founder and CEO of Opoli Technologies. “Teaming up with BYD provides riders not only cost effective solutions, but a green alternative in San Diego.

“We want to bring viable ridesharing experiences to the commuting community. Riders will have the fastest WiFi available in the vehicles, along with other perks to make the most of their commutes.” As part of its agreement with the San Diego airport, Opoli has been granted access to several charging stations to help keep its ride share cars fully charged and ready to go wherever customers require within the metropolitan area.

BYD does not currently offer its crossover electric cars for sale in the US, preferring instead a “soft launch” strategy that will familiarize the public with its products first. But Warren Buffett has made a large investment in BYD, which specializes in electric buses and heavy trucks. It is a company we will be hearing more about in coming years.

FOR SALE: 1998 VW Golf EV Conversion

Range: 50-60 miles, driver dependent
Azure Dynamics Motor/Controller
97 X CALB 60 AH Cells, 19 Kwhr Batt Pack
5-Speed Manual Transmission
Power Brakes, Power Steering
Displayed at SD Intl Auto Show
Contact Dave Crow, (619) 846-5358 (cell)
deekcrow@yahoo.com
\$4,900 or OBO



Electric Auto Association (EAA) Membership Application Form

Fill out this form, attach a check, money order or use PayPal, in US funds only, payable to 'Electric Auto Association'. CE = Current EVents newsletter

e-CE \$35 USA & other Countries \$25 Student \$25 Senior (>65-USA/Canada only) birth year

paper CE \$45 USA \$48 Canada \$52 World \$29 Student \$29 Senior (>65-USA/Canada only)

\$120 (supporting level-1) \$240 (supporting level-2) \$500 or more (high voltage)_____ do not list my name

I support the _____ EAA Chapter (additional chapters, \$10 each) _____

(\$10 each) Additional Chapters or Special interest group (other than the one that comes with the membership)

You can fold this form as indicated and mail it with your payment enclosed. Use tape to seal the form, **on the sides** , before you mail it or send an e-version of this form, through PayPal using <http://electricauto.org/eamembership.html>

New Member Renewal

Name email

Mailing address (Apt. #) Home phone

Mailing City, State & Zip-8 Work phone

Electronic version of Current EVents, paperless only, link sent by email, if your membership was for the e-version, that is what you will receive

Do you own or Lease an electric vehicle (plug-in) production conversion bicycle hybrid or None

please include miles driven and type of vehicle

All information in this application is for the exclusive use of the EAA and not sold or given to any other organization.

Please identify your primary areas of interest relating to the EAA (check as many as your wish

- Owner/Driver Hobby/Builder Professional/Business Competition (Rallies, Races, Records) Plug-in Hybrids
- Environmental/Govt. Regs Social (Rallies, Shows, Events) New Technology & Research Solar & Wind Power
- Promotion & Public Awareness of EVs Student or General Interest Electrathon/Bicycle/Scooter/Other

The Electric Auto Association is a non-profit, 501(c)(3) for the promotion of electric vehicles. Your donations are tax deductible and with your membership you will receive the EAA publication, "Current EVents". All information and statistics in this application are for the exclusive use of the EAA and is not sold or given to any other organization or company. Your membership dues include a percentage goes to the EAA Chapter you support for public Electric Vehicle promotion EVents like rallies, shows and EV rides.

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Please make check or money order payable to: EAA and reference EVAOSD. Send this form and payment to: Richard Rodriguez, EVAOSD Treasurer; 2755 Dos Aarons Way, Suite A, Vista, CA 92081

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