★ SHOW ISSUE ★

ERA EXCHANGE

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May 2025 $12.95

2025 Trade Show Recap!

AUTO ELECTRIC CORNER

Denso Alternator & Engine Shut-Down, Battery Testing & AGM, 11692 Valeo Hybrid Motor-Generator

A WORD FROM THE EXECUTIVE DIRECTOR
2025 ERA Tradeshow Highlights



Another ERA Tradeshow is now in the books. We couldn't go to Hershey, Pennsylvania without going to learn more about the home of the infamous candy "CHOCOLATE". A small group of members and wives arrived a day early to spend the entire day at Hershey Chocolate. Starting with "building our own personal candy bar" with customized wrapper and presentation box, then on to a motorized trolley tour of the town of Hershey. The trolley included a narration about Milton Hershey and the "Empire" he built around his success as a candy maker. He died penniless being one of the great philanthropists of his time. After lunch we spent the rest of the day in the main facility, watching a movie, a play, shopping and of course eating chocolate!

Thursday morning started with a tour of the American Antique Car Association Museum. What a great look into the past automotive world, that included cars, trucks, buses, motorcycles and a large exhibit of model trains. After lunch, the seminars kicked off with a great presentation by John Cathey of East Penn (DEKA) battery about new battery technology, followed by another awesome seminar presented by Rick Polete of PLP Battery about diagnosing and repairing battery chargers.

Friday morning started with the annual ERA business meeting. One of the highlights of the meeting was the installation of three new directors to the board, Joe Mazzone, owner of Buckeye Auto Electric, Ryder Keller, owner of Jimco 2.0 and Del-Ray Voltage Systems and Kevin Stone Sr. of Romaine Electric. Friday's all-day expo was again a great success! Thanks, in part to our gracious vendors contributing prizes to the ever-popular raffle. At the luncheon the 10-year members were recognized, and plaques were presented to the 20-year members. A special presentation, the "Lifetime Achievement" award was presented to Mohammad Samii for his lifetime of contributions to our industry! He was also voted to "honorary member" status by the Board of Directors. Another special presentation to Mohammad was the lifetime use of a Jimco test bench, made possible by a joint effort with the ERA and a gracious donation by Ryder Keller, owner of Jimco 2.0, to continue the technical work for the ERA and its members! Thanks, Ryder! Another special "Thank You" goes to WAI for again making the "Happy Hour" extra happy!

Saturday started with a seminar by our own Mohammad Samii about new unit testing and questions presented to him on the ERA Tech Help line. Following Mohammad was Dan Smith of Romaine Electric with an interesting presentation on various unit failures. After lunch, Larry Hagemeister presented his ever-popular seminar about his experiences in the rebuilding world. Rounding out the afternoon after a short break was the Round-Table discussion. This timeslot is reserved for any rebuilder to bring any topic he or she would like to discuss. As always, we ran out of time so hold your thoughts, we'll continue at next years Show to be held in San Antonio, Texas! I want to see all of you there next year. If you didn't attend this year, make plans for 2026!

Mike Schroeder

NEW ERA MEMBERS

Zorko's
Home, Pennsylvania
Referred by Sam Castiglione of P&G Keene

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INDUSTRY NEWS
& ANNOUNCEMENTS

2025 ERA 10 Year Honor Roll Inductees

A-U Diesel Electric, Inc. of Louisville, Kentucky
Al-Start Sales and Service LLC of Goshen, Indiana
Better-Bilt Auto Electric of Shipshewana, Indiana
Gold Seal Alternator & Starter Service
of Barrie, Ontario, Canada
Import Auto Parts of Thunder Bay, Ontario, Canada
International Automotive Trading , Inc.
of Southfield, Michigan
Martin Rebuilding Co. of Harrison, Arkansas
Moore's Auto Electric of Owensboro, Kentucky
Outback Supply of Sheridan, Michigan
Rexx Battery Company of Decatur, Illinois
Standard Starter Drive-Metco of Kokomo, Indiana
Stephen Burnell of Guelph, ONtario, Canada
Voltech Rebuilders of Laval, Quebec, Canada
YouTech Group LLC of Newcastle, California

In January of 2023, the ERA Board of Directors voted to publically recognize companies that have maintained continuous membership for 20 years. The ERA gratefully acknowledges the ongoing support of the following members:

2025 ERA 20 Year Honor Roll Inductees

A & J Transport, Inc. of Halcott Center, New York
A.S.I. Rebuilders of Abbotsford, British Columbia,
Canada
CAS Products of Oshawa, Ontario, Canada
Chestbut Hill Auto Electric of Denver, Pennsylvania
Flora Battery & Alternator of Flora, Illinois
Genco Auto Electric of Mesa, Arizona
Hub Automotive Rebuilders of Ipswich, Massachusetts
Lang's Sales & Service of Winthrop, Minnesota
Larry Langshaw of Delton, Michigan
Lou Bianchino & Sons Starters-Alternators
of Ocean View, New Jersey
Richbourg's Auto Electric of Florence, South Carolina
Sunrise Repair of Ephrata, Pennsylvania
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Turbo & Electric Sales & Service of Phoenix, Arizona

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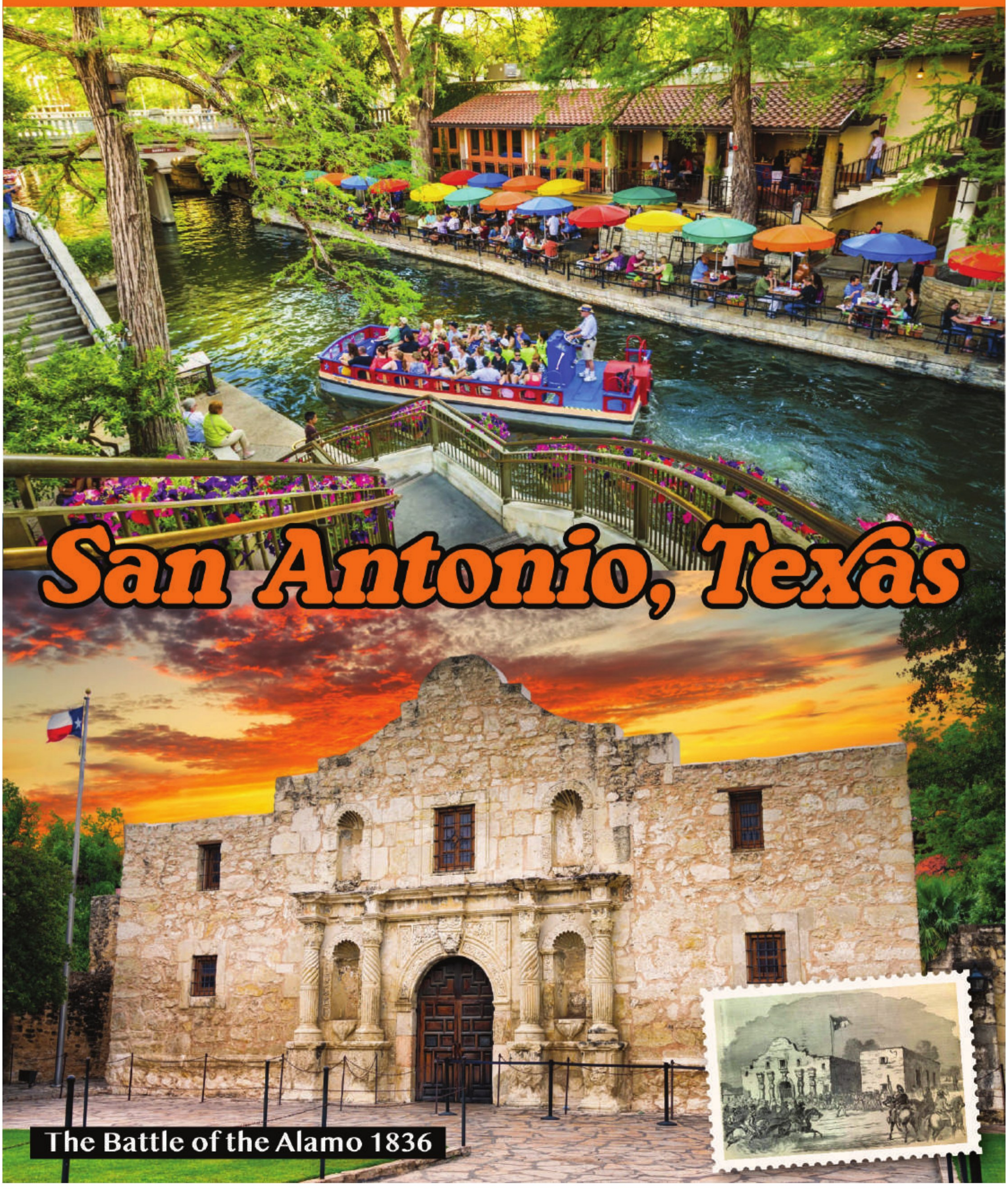



Those in attendance who were awarded the 20 Year Member Honor Roll were given a plaque and posed for a photo. (Companies who were unable to attend will be mailed their 20 Year plaque)



Those in attendance who were awarded the 20 Year Member Honor Roll were given a plaque and posed for a photo.



Mohammad Samii was awarded the Lifetime Achievement Award for his lifetime of contributions to our industry!



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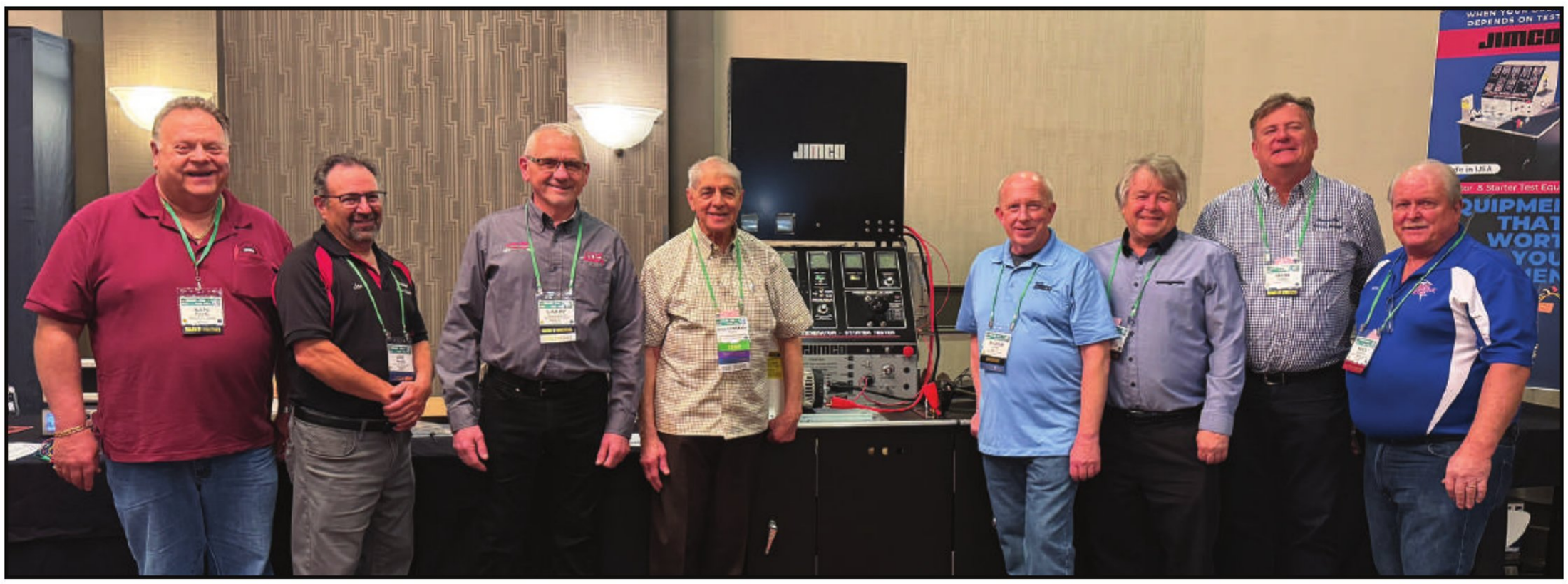

Mohammad Samii was presented the lifetime use of a Jimco test bench, made possible by a joint effort with the ERA and a gracious donation by Ryder Keller, owner of Jimco 2.0, to continue the technical work for the ERA and its members!

2025 ERA Trade Show Recap























EXPO RAFFLE



Clay Arbogast of Clay's Repair Shop won a 5-pound Hershey Chocolate Bar from the Holiday Inn Hotel



Jocelynn Bearden of Allstart Auto Electric won 2 counter stools from J&N Electric



Sam Castiglione of P&G Keene Electrical Rebuilders won a $100 Visa Gift Card from Accumax Auto Parts



Sam Castiglione of P&G Keene Electrical Rebuilders won a short circuit tester from Agri-Services



Brandon Nestorek of George's Automotive Electric won a $100 Merchandise Gift Certificate from Zorko's



Larry Peluso of George's Automotive Electric won a $500 Merchandise Gift Certificate from Romaine Electric



Ralph Zimmerman Jr. of White Springs Repair won a 20oz Yeti tumbler from East Penn/Deka Battery



Scott Chalfant of Allstart Auto Electric won a $50 Merchandise Gift Certificate from International Automotive Trading



Clay Arbogast of Clay's Repair Shop won a $100 Cabela's Gift Card from JIMCO 2.0



Clay Arbogast of Clay's Repair Shop won a remote controlled cooler truck from WAI Global



Scott Chalfant of Allstart Auto Electric won 2 counter stools from J&N Electric



Joe Mazzone of Buckeye Auto Electric won a NOCO Jump Starter with case from PLP Battery



Ralph Zimmerman Sr. of White Springs Repair won a 25' 1-Gauge Jumper Cable Set from PLP Battery



Derrick Zingery of Roy's Magneto Service won a 20oz Yeti tumbler from East Penn/Deka Battery



Lynn Castiglione of P&G Keene Electrical Rebuilders won a short circuit tester from Agri-Services



Ken Plourde of Guy's Electric Service won a $50 Merchandise Gift Certificate from International Automotive Trading



Joe Mazzone of Buckeye Auto Electric won a $100 Merchandise Gift Certificate from Zorko's



David Zimmerman of White Springs Repair won a starter from IMI Performance Products



Sam Castiglione of P&G Keene Electrical Rebuilders won a scroll puller from CAE Pullers



Mike Schroeder of Central Automotive Electric won 2 counter stools from J&N Electric



Glen Mclaughlin of Alternator Starter Service won a $500 Merchandise Gift Certificate from Romaine Electric



Clay Arbogast of Clay's Repair Shop won a solar 12v digital battery tester from PLP Battery



Ralph Zimmerman Sr. of White Springs Repair won a remote controlled cooler truck from WAI Global



Lynn Castiglione of P&G Keene Electrical Rebuilders won a 16' 4-Gauge Jumper Cable Set from PLP Battery



Brittney Webber of Alternator Specialist won a 20oz Yeti tumbler from East Penn/Deka Battery



Mike Mackey of Mackey Auto Electric won 2 counter stools from J&N Electric



Benton Huhmann of Central Automotive Electric won his pick of 8 items on the display table from Just Parts



Brittney Webber of Alternator Specialist won a $100 Merchandise Gift Certificate from Zorko's



Lynn Castiglione of P&G Keene Electrical Rebuilders won a starter from IMI Performance Products



James Zimmerman of White Springs Repair won a 20oz Yeti tumbler from East Penn/Deka Battery



Jason Shepperly of SRC Electrical won a 20oz Yeti tumbler from East Penn/Deka Battery



Larry Hagemeister of Hagemeister Enterprises won a 20oz Yeti tumbler from East Penn/Deka Battery



Benton Huhmann of Central Automotive Electric won a $100 Merchandise Gift Certificate from Zorko's



Clay Arbogast of Clay's Repair Shop won a 65" flat screen TV from WAI Global



Michele Schroeder of Central Automotive Electric won a 12' 4-Gauge Jumper Cable Set from PLP Battery



Glen Mclaughlin of Alternator Starter Service won 1-Year of paid membership dues from the Electrical Rebuilders Association

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AUTO ELECTRIC CORNER — Denso Alternator & Engine

Shut-down, Battery Testing & AGM, 11692 Valeo Hybrid Motor-Generator



BY MOHAMMAD SAMII

By the time you read this, the 2025 ERA Show in Harrisburg is behind us but I admit this year's event and the comprehensive training sessions that went along with it was one of the most in-depth sessions that I have recently attended.

Presentations by East-Penn Battery and PLP on Thursday was very informative and explained a lot about the new technologies that are going into the AGM batteries. PLP Battery showed us opportunities for repairing larger battery chargers that could be highly profitable and as a niche to our regular work for a secondary source of income.

After an all-day Expo on Friday, Saturday we had an all-day training session consisting of rebuilding Heavy Duty units presented by Dan Smith (Romaine Electric) and a comprehensive session by Larry Hagemeister that covered determining the causes of parts and unit failure with a long list of modifications that can be done to existing units to adapt them to other rare applications.

I also covered some newer units, testing, LIN, and an introduction to Stop-Start units and systems that more details would be written about here in the upcoming issues.

All and all, 2025 ERA Show was an interesting event which the attendees can certainly vouch for it. Thanks go to ERA management, particularly Mike, Michele and Stephanie Schroeder who definitely deserve much more than the proverbial pat on the back. Thank you Schroeder's!

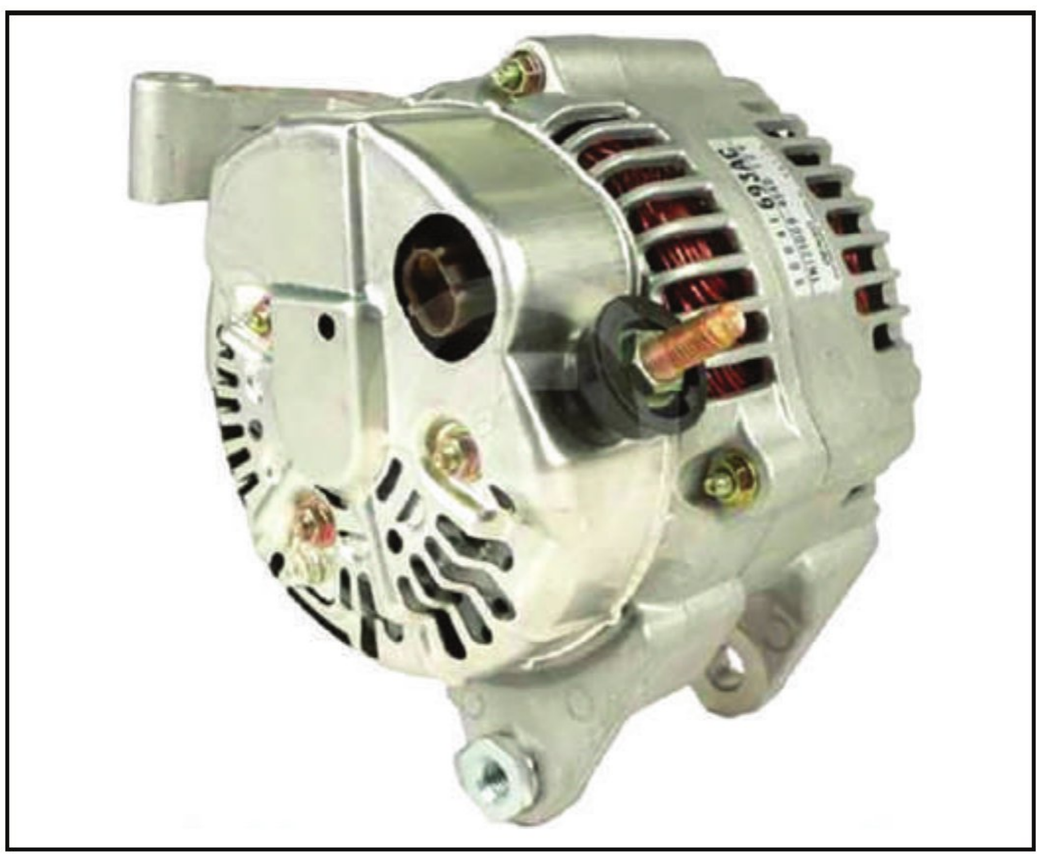

Figure 1 – A Denso 13873 Alternator (A WAI Photo)

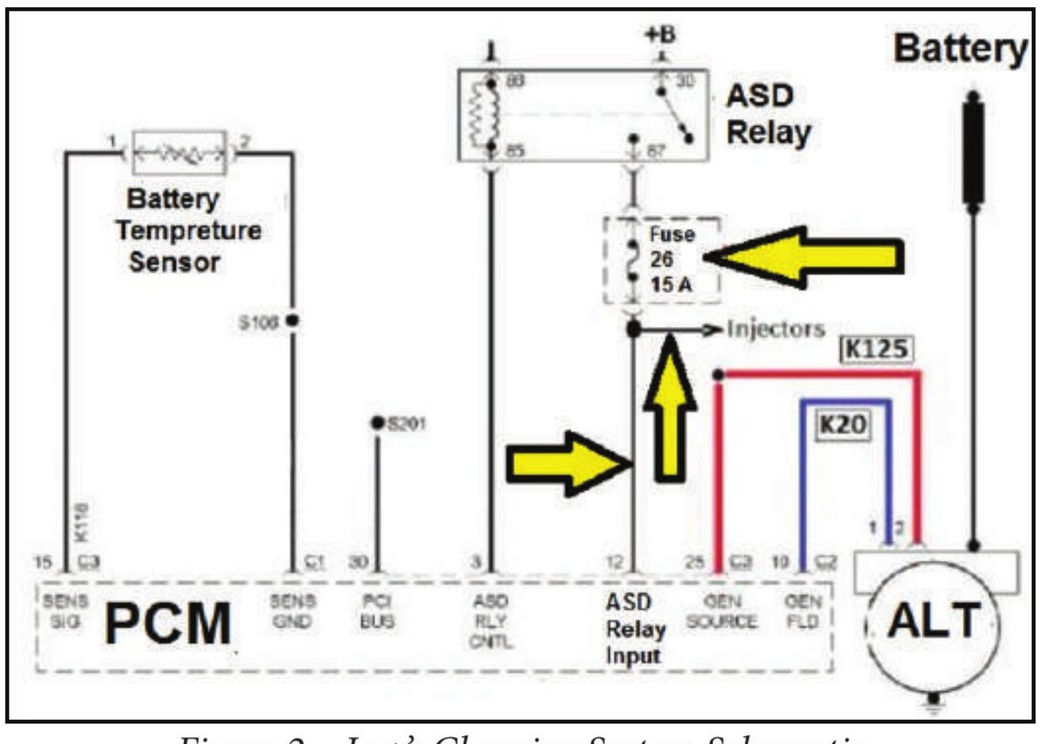

Figure 2 – Jeep's Charging System Schematic

Denso Alternator and Engine Shut-Down

I was called to a job to look at the problem of a blown injector fuse in a 2003 Jeep Liberty with a 3.7L engine. There was no history of major repair on the vehicle, but a factory "reman" 13783 alternator (*Figure-1*) was installed a few months before. Now, fuse #26, which feeds the injectors, was blowing. This of course stops the engine from running.

The individual injectors were checked and found to be sound. The injector wiring harness seemed to be fine as well, intact, and not tampered with.

Consulting the schematic and tracing the wiring related to this particular fuse, it was shown this circuit also branches off and sends the output of the ASD (Auto Shut Down) relay to the PCM. The ASD relay, a well-known item in Chrysler products of the time, is a power relay that feeds many essential circuits including: ignition, fuel pump, injector, O2 sensor heater, the PCM, and other items when there is a tach signal, meaning when the engine is running. (*Figure-2*)

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In this particular truck and its charging system, the PCM applies power to F1 (circuit K125, as Chrysler calls it) then it toggles the F2 to ground (circuit K20) to control the alternator field—thus controlling the output (*Figure-3*). What I found was that when the alternator plug was disconnected (of course the system will stop charging at this time), the fuse did not blow and the engine kept running. But as soon as he plugged in the alternator, the injector fuse blew and obviously stopped the engine. At this point, it became obvious to me that some internal problem with the rotor was causing the issue, meaning the rotor was somehow grounded. A replacement alternator was installed, and the problem went away.

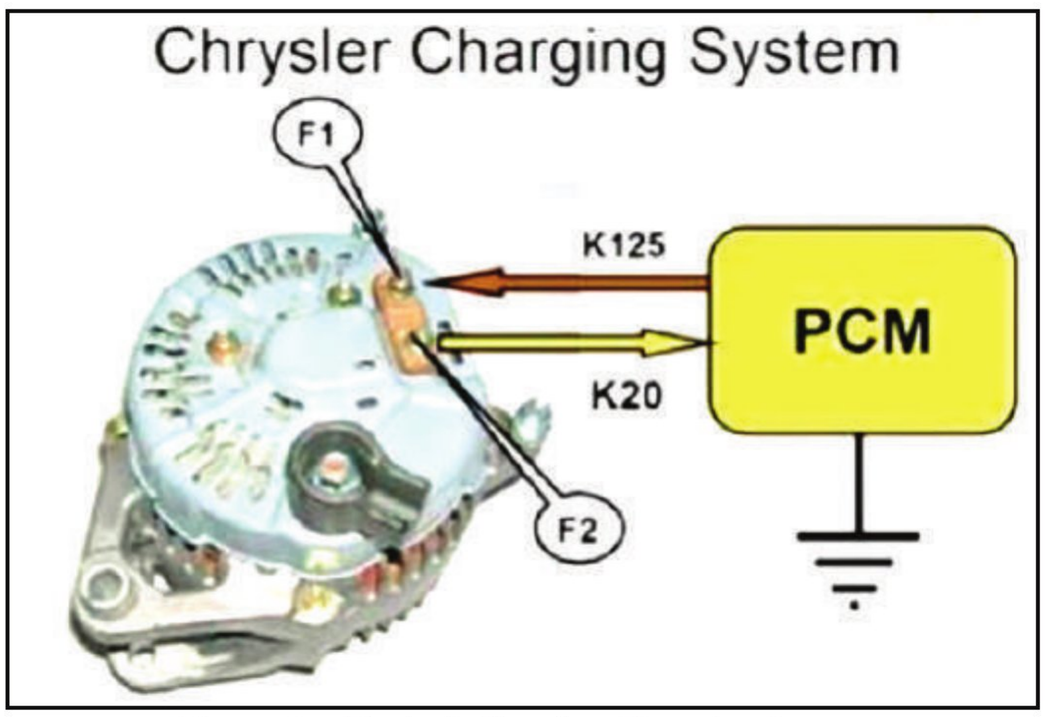

Figure 3 – Typical Chrysler Charging System

This case reminded me of one with the same exact issue. A friend of mine who is a highly qualified technician and instructor was facing it a few years ago. He was curious to know exactly how the rotor was shorted, so he sent the trouble alternator to me for inspection.

Upon disassembly, I realized first that the flat washer between the bearing and the rotor was missing (*Figure-4*). This by itself would not cause the problem.



Figure 4 – The Flat Washer Missing from Reman Rotor



But looking closely, I realized that when they replaced the slip ring, they did not tuck the leads away properly in the grove, as a proper one would look like. (*Figure-5*)

Further inspection showed there was a very small amount of rub-through between the bearing and the slip-ring's lead. The wire finally pushed through the insulation and was touching the SRE bearing's inner race. *Figure-6* shows this breech, which was taken with a camera equipped with a close-up lens. This caused the ground which blew the fuse to the PCM which was the same fuse that fed the injectors.

My personal belief has always been that the difference between quality work that makes the unit to function properly and last, versus a unit that is put together hastily is usually just a few dollars (if not pennies) and only a few more minutes. It does not take much longer to do a job properly and to spend a little more money for quality parts in addition to thorough testing to make a reliable first-class unit.

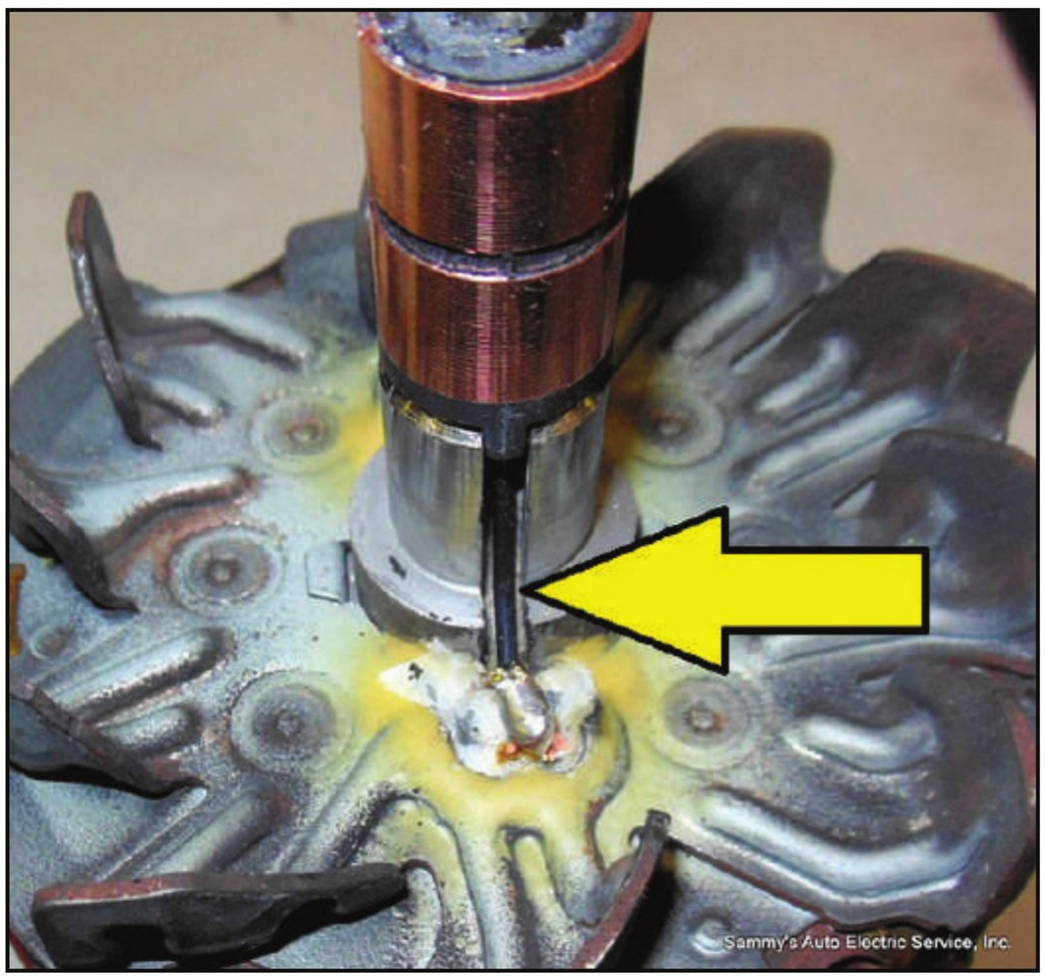

Figure 5 – A Properly Routed Slip-ring Lead

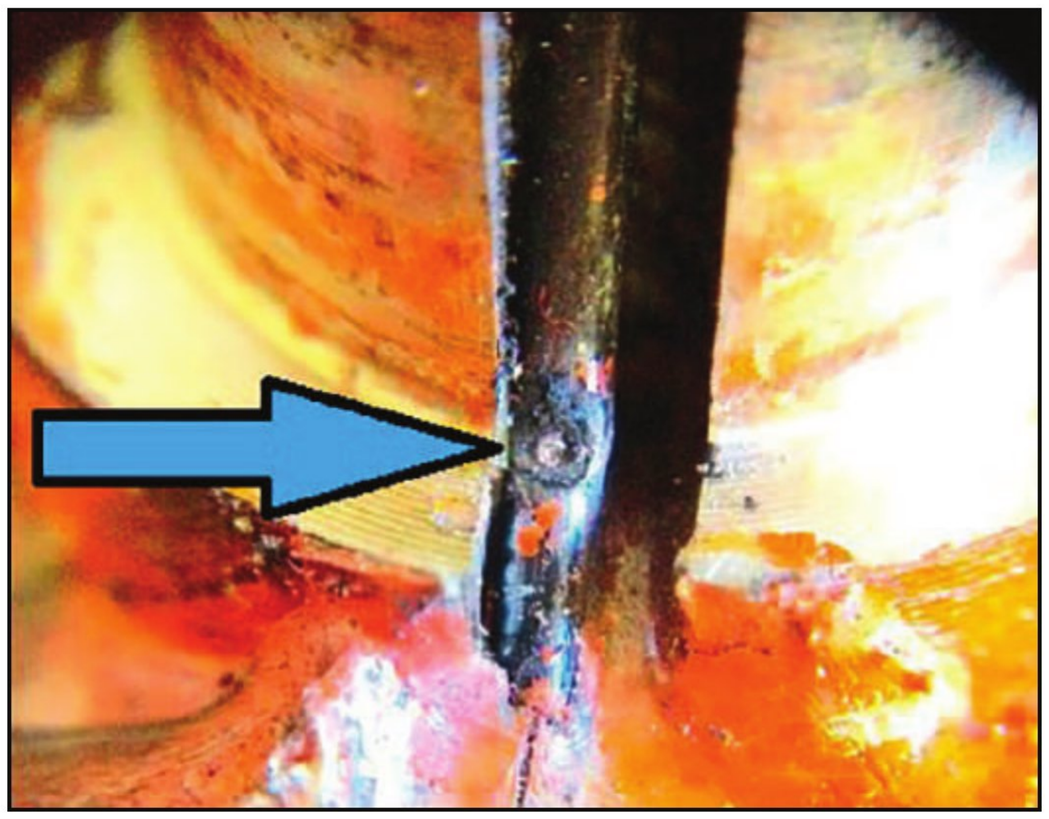

Figure 6 – A Breach Causing a Grounded Rotor

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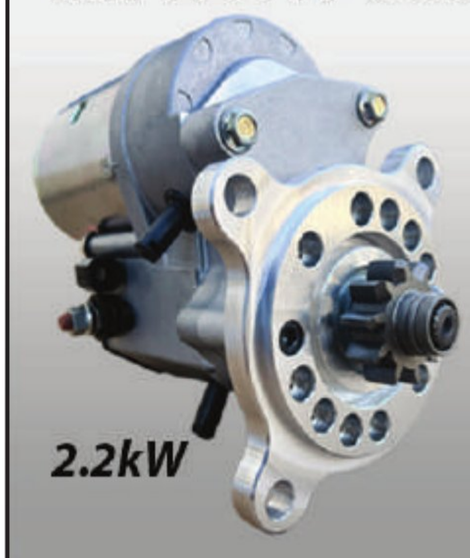

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Cummins: 5266969, 5294675, 5295576, 5310341, 5311304
Prestolite: M81R2502, M81R2502VPP
TUG - GT35: BF4M2012DEUTZ

IMI-256-001



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Yanmar: 123900-77010
Komatsu: YM123900-77010

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1.4 kW

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Onan Applications

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Onan:191-0790, 191-D790
Prestolite: MBG-4104, MBG-4133, MEO-6003

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The above case was not solved by the parts store providing another replacement unit. It required additional labor and the diagnostic fees as well as a tow charge. This all added up to a lot more than the price of a replacement alternator. I am not even taking into consideration the consequences of a disgruntled customer and its effects on that particular shop who had no role in rebuilding that alternator.

Battery, Testing, and AGM

Customers' calls related to a no-start or hard-start, always forced me to ask them first about the condition of their battery. My question is usually answered by the caller saying that their battery is fine, new, or near new, or it had just been charged up. Not accepting their answer, I ask what I need to know is the measured voltage across the battery posts! This is usually followed by silence or the muttering of some unintelligible words, or a ... "I got 12 volts..." comment to which I answer that a 12-volt reading means that your battery is dead!

We know that in a stabilized and charged battery, the open-cell voltage (OCV) is a good indication of the state of the battery's charge. The chart below (*Figure-7*) shows the relationship between the open-cell voltage and the state-of-charge (SOC) of the battery. This is a very useful chart to relay to a customer that a reading of 12 volts means a nearly dead battery. That is to say if his measurements were taken accurately—or if they were taken at all…!

The next issue is the cranking power of the battery. Not all charged-up batteries are able to crank and start a motor if they have defective cells, are sulfated, or are just too old and worn out. So the available CCA needs to be confirmed.

When the caller says he had his battery tested, my next question is, "What were the results of the test?" This is to know how big of a load they used and what the battery's voltage under that load was. At this point, the conversation usually comes to a close. They can rarely tell you the results of the test, the load, and the voltage under load. Once they try to throw in unrealistic numbers that

Battery State of Charge vs. Voltage/Specific Gravity

VOLTAGE	SPECIFIC GRAVITY	STATE OF CHARGE	DEPTH OF DISCHARGE
12.66	1.265	100%	0%
12.45	1.225	75%	25%
12.25	1.190	50%	50%
12.05	1.145	25%	75%
11.90	1.100	0%	100%

Figure 7 – Battery Voltage vs SOC Chart



do not fit any defined parameters, you know that their claim of testing is bogus, and the caller really has no idea about the condition of the battery. He may just be passing on the blame to the battery, ignoring the issues he/she might have with the starter, alternator, or the cables and their connection.

Before my retirement and since we are in a smaller community and are close to our customers, I always asked them if they could bring in their battery for us to test. In some cases, the vehicle needs to be towed in for the battery test or a charging/starting test. Simply taking a caller's inquiry on its face value and giving a professional opinion without having seen or inspected the vehicle or the battery is just a guessing game and highly unprofessional…in my opinion!

Today's battery technology has grown by leaps and bounds and more and more applications are moving toward AGM (Absorbent Glass Mat) batteries that have amazing performance capabilities, requiring no addition of electrolyte… but they do not come cheap.

During an interesting presentation made by East Penn/Deka Batteries during the 2025 ERA Show in Harrisburg, we were introduced to the technologies and capabilities of their new line of Fahrenheit series of AGM batteries that shows great level of performance with a high estimated durability for many applications. For instance their Group 31 truck batteries (SLA-9A31) is rated at 925 CCA (100AH), a whopping 190 minutes Reserve Capacity or RC with enhanced life cycle. As you can imagine, a set of 3 or 4 in a truck application would be quite a powerhouse sufficient to meet almost any demand. (*Figure-8*)

Due to the cost of such batteries, a thorough testing and using proper and modern test equipment along with the traditional load testing is a must for battery testing process. A systematic testing of the battery is the best way to dismiss bogus warranty claims that always blame the battery for any starting or charging problem.



Figure 8 – A DEKA SLA-9A31 Fahrenheit Battery



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Mild Hybrid and 11692 Valeo Motor-Generator

The Mild-Hybrid which was briefly discussed at the Show uses a combination starter/generator or Motor-Generator in hybrid lingo that works as an alternator to charge the battery and when fed a 3-Phase power from the module, it acts as a starter and cranks the engine. It can also assist the engine.

Test equipment for such devices are currently at the OE level and rebuilders by and large have no service information, service parts, and test bench to test and rebuild these units. So the repairs on them are at the moment restricted to bearing changes with the caveat of no-guarantees for the operation of the units.

One such Motor-Generator is Valeo made 11692 unit (*Figure-9*) that is used on some Chevrolet (Impala/Malibu) and Buick (Lacrosse/Regal) for a varied period of 2012 up to 2019 in a system that is called eAssist. Not only this 3-Phase induction motor functions as a starter, it does also assist the engine when the load demands are high, like a quick passing or going uphill. Its 3-Phase output goes into the battery unit behind the driver seat which contains the Latium-Ion battery (130V) where all the inverters, converters. Battery Control Modules and such are located and charges the HV battery as well as providing 14V output to charge the car's 12V battery, acting like an alternator. This MG which is water-cooled (*Figure-10*) is more powerful than the Hitachi 11649 BAS units that were used on Saturn Vue Hybrid and some earlier GM cars.



What I happily learned during the Show is that a Reman 11692 is available by IAT (International Automotive Trading @ 800-872-8890) who are equipped with specialized test equipment and OE support to rebuild this unit, making it available to the rebuilders.

It was presented at their booth in the Show which gives rebuilders an option to provide this to customers or even to the dealerships if needed. A big plus for our industry.

Well, that's all for this issue. Until I see you again, keep up the good work and stay healthy.

You can contact Mohammad Samii by email at: sammyselectric@sbcglobal.net, or by calling the ERA Tech Help Line at 636-584-8324 and leaving a message with your call-back number.



Figure 9 – Valeo 11692 Motor-Generator by IAT

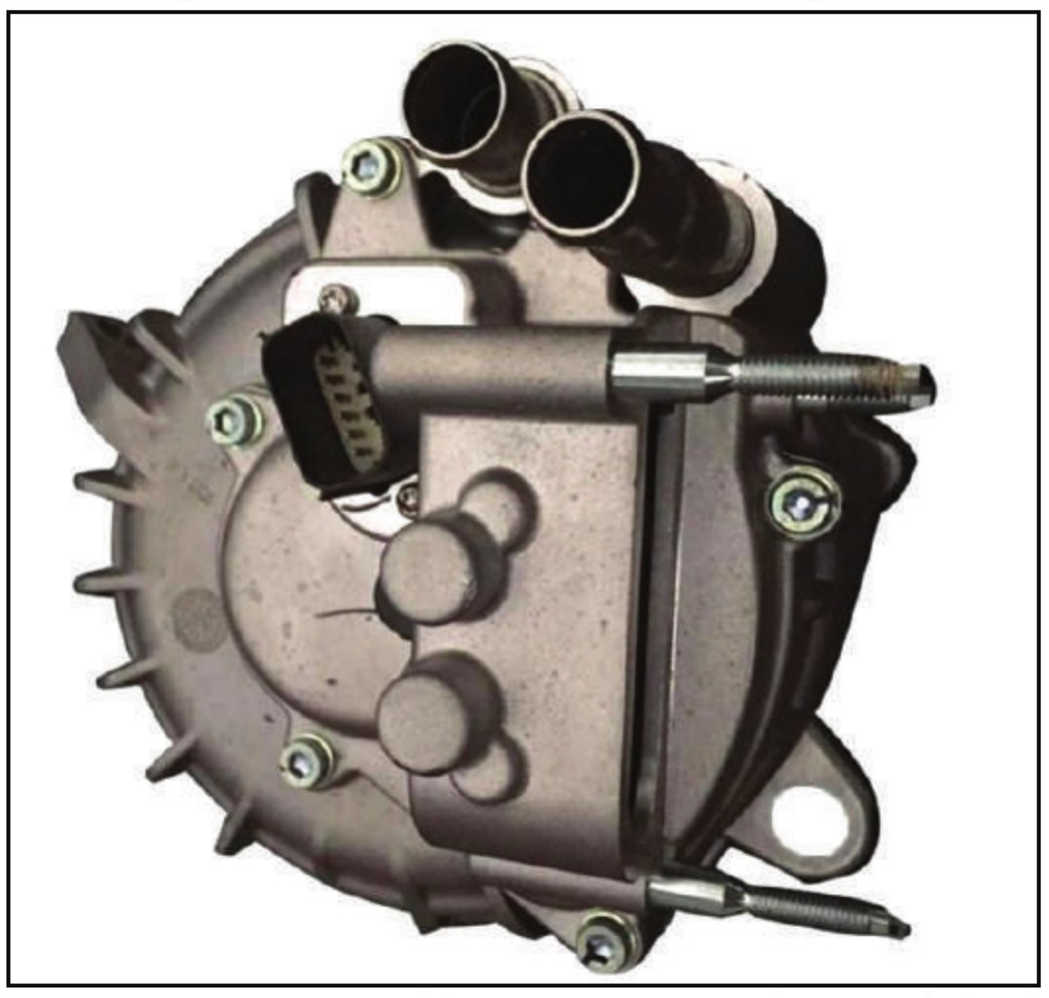

Figure 10 – Water Pipes of the Motor-Generator (A Partref Photo)

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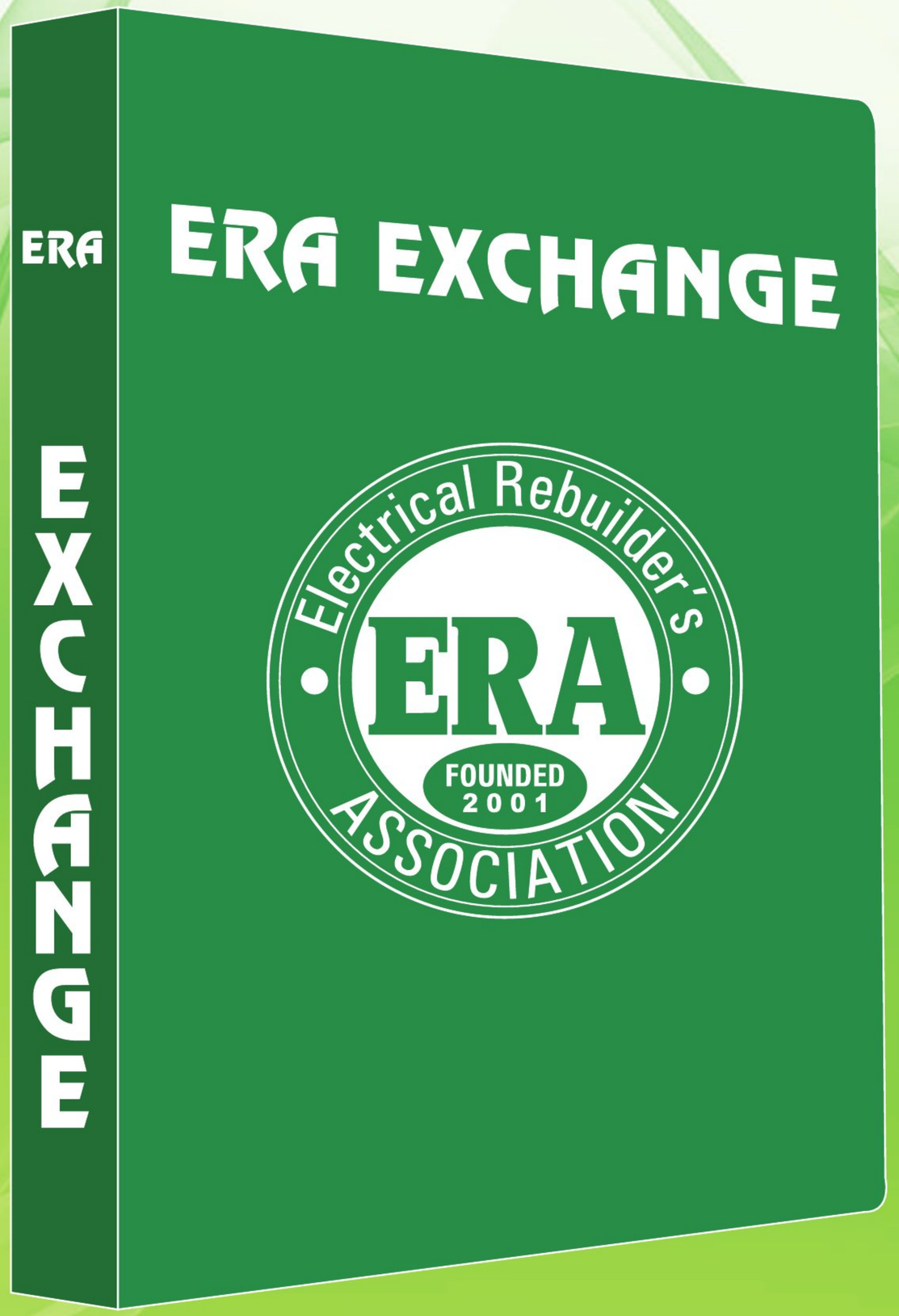

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ERA REBUILDER UNIT LABELS

All labels are printed in bright color on a heavy heat-resistant stock with high-bond adhesive backing. They are laminated with a clear layer that is resistant to oil, gas and water. They will give your products a professional look that will set them apart from the competition. Labels are affordably priced and can be ordered right off of the ERA website or by calling the ERA office at: 636-584-7400. All prices include free shipping.



REBUILT BY A PROUD MEMBER
Size: 1" diameter
Sold in sheets of 81
$16.00 1 sheet
$13.00 6 sheets or more



WATER DAMAGE MAY VOID WARRANTY
Size: 1.5" x 3.0"
Sold in sheets of 18
$11.00 1 sheet
$9.00 6 sheets or more



DO NOT STRIKE
Size: 1.5" x 3.0"
Sold in sheets of 18
$11.00 1 sheet
$9.00 6 sheets or more

FREE SHIPPING WITHIN THE U.S.



START ONLY FROM SEAT
Size: 1.5" x 3.0"
Sold in sheets of 18
$11.00 1 sheet
$9.00 6 sheets or more

REBUILDER'S MARKETPLACE

PARTS, SUPPLIES, EQUIPMENT FOR SALE

Battery charger repair parts for all brands, batteries and battery chargers for all applications. PLP Battery Supply 800-642-3451 www.plpbattery.com

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WANTED rebuildable Military electrical cores, any quantity, Prestolite 60 amp alts, Leece Neville 24V starters, CE Niehoff 24V alternators, Bendix 650 amp oil cooled alts, 300 amp Teledyne generators, any quantity, send your list or if not sure send pictures, and we can identify. 305-633-1524 or hy@cmearma.com

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3500 AND 3599 CORES. Contact Larry at Hagemeister Enterprises. 800-944-0494

Armatures for sale. $80 each plus shipping. Starter Repair 269-625-5400. GAR2116 Lester 4060-878, MAW2128 Lester 5060-1745, MZ2211 Lester 5060-1800, MAW2030 Lester 5060-1970, SM453 Lester 5050-2115

Ford flat head V8 parts, generators, starters, distributors, armatures, parts and cores. Contact Rob, Auto Diesel Electric Supply (775) 358-0607 info@adesnv.com

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Selling starter field coils. Delco Ford 10mt to 42mt acm and I P M numbers. Call or can send pics. Lavern at L&R Alt. 620-242-6460 email is lnnikkel@gmail.com

MISCELLANEOUS

HIRING: Looking for a change but want to stay in the industry? Join our growing Sales team! Please email info@regitar.com for more information.

EXPERIENCED REBUILDER: Kaestner Auto Electric in Waukesha, Wisc. looking for starter, alternator, and generator rebuilder. Emphasis on HD and Industrial. 3-5 years experience required. Send resume to steve.kaestner@yahoo.com.

Position Available! Growing national supplier and manufacturer to the rotating electrical industry is looking for a pricing manager. Full time position with the ability to work from home for the right candidate! Health benefits, 401K and fun and supportive culture. Requirements: Good industry knowledge of starters alternators generators and their markets. Ability to understand and apply pricing with several different strategies to individual market places. Willing to accept new ideas and products as we are diversifying. Ability to work with many people within an organization productively and respectfully. Effective skill with MS Office suite of programs, willing to learn if necessary (school). Salary DOE

SERVICES

R&R ALL STARTER DRIVES. North Atlantic Starter Drive, 741 Broadway, Pawtucket, RI 02861 800-822-2735 Email: popsy26@verizon.net

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DL Jones Enterprises offers new machines and service on most makes and models of speed lathes. Call now for a free quote 815-289-6172

BUSINESS FOR SALE

Well established Starter Alternator and Generator, also Torpedo heater repair. In beautiful Western Michigan. Includes building with great location, all inventory and parts. Well established customer base. EXCELLENT Reputation. Will Train. E-Mail frgen17@gmail.com

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60 year Turn Key Auto/Truck Electric and Heating A/C repair shop in Hartford Connecticut suburb. Includes Units, component parts, equipment, and customer base. 3600 sq. ft., 6 Drive In Bays with Rebuilding & Storage area's. Willing to provide guidance and experience skills to motivated and willing to learn individual.E-Mail K2H24P@cox.net

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MOVE TO MINNESOTA! We don't have flash floods, forest fires, hurricanes, or poisonous snakes in south central Minnesota. After 44 years in business, it's time to retire. We are located in Glencoe MN, and serve auto, ag and industrial customers in a 30 mile radius. Glencoe is also home to the local public school system and hospital. We have everything you need, and are close to everything you want. Bruce Schiroo, 320-864-6200

ADVERTISING: If you'd like to submit a classified ad, email Michele at office@electricalrebuilders.org. ERA members receive the first 25 words free. It's an ERA benefit!

Henry Ford once said,

"A MAN WHO STOPS ADVERTISING TO **SAVE MONEY** IS LIKE A MAN WHO STOPS A CLOCK TO **SAVE TIME.**"

Advertising is an integral part of a successful business. It is not enough to have a good internal operation.





ERA EXCHANGE
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