★ SHOW ISSUE ★

# ERA EXCHANGE

YOUR GUIDE TO ELECTRICAL REBUILDING

May 2024 $12.95

## AUTO ELECTRIC CORNER

## Denso 11572 Alternator, Chasing Parasitic Drain, Denso Starters, Safety Wiring

## 2024 Trade Show Recap!




Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

# A WORD FROM THE EXECUTIVE DIRECTOR
## Another ERA Tradeshow in the Books!



The 2024 ERA Tradeshow in St. Louis, MO was another huge success!! It all started with a tour of the St Louis Arch and museum on Thursday morning. Me being somewhat of a history buff thoroughly enjoyed the museum which includes much more history about St. Louis and the settlers of the surrounding area and the movie about the construction of the Arch gave more insight to its fruition. After watching the various tradesmen in action during construction work without any safety harnesses or lines it is an amazing fact that not one life was lost during the construction process that took several years to complete.

Back to the hotel to begin the seminars, but only after enjoying a delicious buffet luncheon! Our own Mohammad Sammi was again a human fountain of information about testing procedures and equipment as well as new unit information. His seminars are always a treat that I look forward to! Dan Denbleker with East Penn (DEKA) Battery provided a very informational seminar on the latest battery technology. He literally ran out of time with all the questions brought by the interest of the attendees, we will certainly look forward to having him return to a future show to continue the dialogue!

A short Board of Directors meeting was held Thursday to select a new Board Chairman. Former board secretary, Daren Roggentien was elected to the position by the other board members. The board also selected Sam Castiglione of P & G Keene Company in Bridgeview, IL to become the newest member of the board! Welcome Sam!

Friday's "All Day Expo" was again a great success, with a large attendance of rebuilders. We welcomed a number of new member exhibitors, those being Fersa PFI Bearing, AccuMax Auto Parts, D.L. Jones Enterprises and Rebuilders-Supply.com. During the luncheon we were entertained by Nascar's Kenny Wallace who shared much about himself growing up in St. Louis and culminating with a career in and around Nascar!

A BIG THANK YOU! To all the vendors for contributing prizes to our annual raffle, this has become a highlight of the Expo! Our good friends from WAI also provided an extra perk for the members attending. The last hour of the expo had an open bar that was provided by them. Thank You WAI!!

Saturday's seminar schedule kept us all focused-on learning new information once again starting off with Mohammad then a look at some reasons for part and unit failure in a great presentation by our Larry Hagemeister of HEI Enterprises in Lebanon, Oregon.

After another fantastic lunch, awards were presented to the 20-year members that were in attendance at the show. Thank You for your continuous support of your association! Dan Marinucci rounded out the seminar schedule with his presentation on "Voltage Drop Testing."

A Big THANK YOU! To all of our presenters for your time and dedication to our industry and for sharing your experiences with all of us! The Round Table Discussion was again a comprehensive discussion of many subjects of your choosing! In closing I say to all of you attending, it was Great to see all of you! And to those of you not attending this years show I say, you missed a fantastic event! Please plan to make next years show in Hershey, Pennsylvania!!!

*Mike Schroeder*

## NEW ERA MEMBERS

Rebuilders-Supply.com
Hampshire, Illinois


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CONTENTS


2 A WORD FROM THE EXECUTIVE DIRECTOR
2 NEW ERA MEMBERS
3 INDUSTRY NEWS
4 2024 TRADESHOW RECAP
10 AUTO ELECTRIC CORNER — Denso 11572 Alternator, Chasing Parasitic Drain, Denso Starters, Safety Wiring
19 CLASSIFIED ADS



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# INDUSTRY NEWS & ANNOUNCEMENTS

## 2024 ERA 10 Year Honor Roll Inductees

Alternator Specialist of Wilmington, North Carolina
Armature Service Company of Little Rock, Arkansas
Bowen Electric of Floral Park, New York
Carlisle Generator of Carlisle, Arkansas
Crook Auto Electric of Lebanon, Tennessee
D & D Auto Electric Rebuilers of Chicago, Illinois
Durobilt of Nampa, Idaho
Eastman Starter & Alternator of Eastman, Georgia
Northern Mobile Electric of Canton, Ohio
P & G Instrument Corp of Islip, New York
Rhoten Auto Parts of Cookeville, Tennessee
Robinson Electrical Automotive of Westminster, Maryland
Ron's Alternator & Starter Repair of Waldersee, Manitoba, Canada
Sagle Auto Electric of Zanesville, Ohio
Scott's Starter & Alternator of Dublin, Georgia
Ward Auto & Truck Service of LaPorte, Iowa
Witner's Electric & Automotive of Seneca Falls, New York

*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:*

## 2024 ERA 20 Year Honor Roll Inductees

Advanced Automotive Electric of Union, Missouri
Alderman's Repair Shop of Burlington North Carolina
Al's Auto Electric Service of Collinsville, Connecticut
Anderson Auto Electric Co of Waterbury, Connecticut
Antique Auto Service of Versailles, Kentucky
Amsco Valley Forge of Hauppauge, New York
Art's Electric of Longview, Washington
Barry's Alternator & Generator Repair of Lehighton, Pennsylvania
Big Moe Starter & Alternator of San Antonio, Texas
Chuck's Alternator Service of Morenci, Michigan
Clem's Alternators & Starters of Hartwell, Georgia
Dave's Auto Supply of Rexford, Kansas
Del Ray Voltage Systems of Aurora, Nebraska
Finicki Auto Electric of Madison, Wisconsin
Generator Starter Shop of Billings, Montana
George's Automotive Electric of New Castle, Pennsylvania
Grand Battery & Electric of Amarillo, Texas
Hagemeister Enterprises of Lebanon, Oregon
Jim's Alternator Service of Alexandria, Louisiana
JK's Starter & Alternator Service of Palestine, Texas
John's Automotive Electrical of Quincy, California
Kaestner Auto Electric of Waukesha, Wisconsin
Lancaster Starter & Alternator Service of Lancaster, Pennsylvania
Manitowoc Motor Machining Co of Manitowoc, Wisconsin
Miller's Generator of Uniontown, Ohio
Pro-Line Distributors of White Hall, West Virginia
Romaine Electric of Kent, Washington
SRC Electrical of Springfield, Missouri
Texas Alternator & Starter Service of Austin, Texas
The Auto Clinic of Mansfield, Ohio
Widrick Electrical of Lowville, New York
Willard Generator of Bridgeville, Pennsylvania
Yankee Auto Electric of Pawtucket, Rhode Island



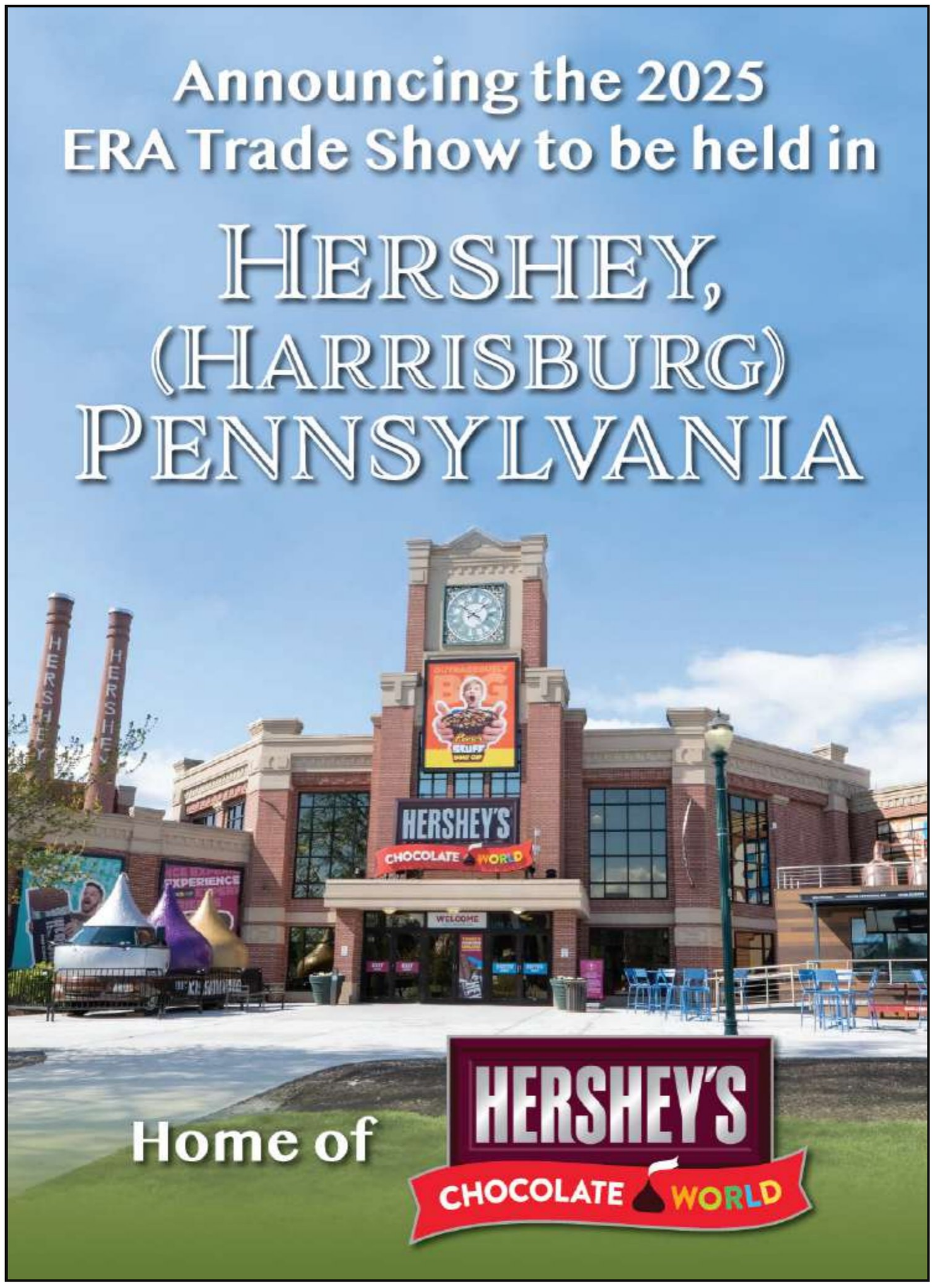

**Those in attendance who were awarded the 20 Year Member Honor Roll were given a plaque and posed for a photo. (Companies who were unable to attend will be mailed their 20 Year plaque)**



**Daren Roggentien (left) was elected Board Chairman and Sam Castiglione (right) was elected to the Board of Directors.**



**Former NASCAR driver Kenny Wallace spent an hour with ERA members telling a little bit of his life's story and signing autographs.**



# 2024 ERA Trade Show Recap



# EXPO RAFFLE




Nick Ellison of Scaggs Repair won a remote controlled cooler truck from WAI Global




Lynn Gross of Churubusco Auto Electric won a MAHLE branded polo from MAHLE Aftermarket




Helen Hilman of Hagemeister Enterprises won a NOCO GBX55 Jump Starter from PLP Battery




Daren Roggentien of Roggentien Electric won his pick of 8 items on the display table from Just Parts




Shawn Walker of Sailon Auto Electric won a MAHLE branded polo from MAHLE Aftermarket




Jason Shepperly of SRC Electrical won a WAGAN 7505 iOnBoost Jump Starter from Romaine Electric




Lindsay Mahder of Chippewa Valley Starter & Alternator won an OEM #12490 Alternator from International Automotive Trading




Eric Zetina of A-1 Auto Electric won a charcuterie board, wine and glasses from DL Jones Enterprises



Brian Hagedorn of Manitowoc Motor Machining won a $50 Visa Gift Card from C.C. Battery Co.







Hunter Ernesti of Del-Ray Electrical Rebuilding won 2 counter stools from J&N Electric




April Cottrell of Sagle Auto Electric won 2 counter stools from J&N Electric




Daren & Crystal Roggentien of Roggentien Electric won a 65" TV from WAI Global



Lynn Castiglione of P&G Keene Electrical Rebuilders won a 39MT Drive Fixture from CAE Pullers



Jerry Holmes of K&J Starter won a $100.00 Omaha Steaks Gift Certificate from JIMCO 2.0



Rex Cottrell of Sagle Auto Electric won 1-Year of paid membership dues from the Electrical Rebuilders Association



Scott Chalfant of Allstart Auto Electric won $100 cash from YouTech Group




Glen McLaughlin of Alternator Starter Service won a Schauer CM6A Multi-Charger from PLP Battery




Nick Ellison of Scaggs Repair won a $100 Amazon Gift Card from Fersa-PFI Bearing




Alan Melton of Am For Electronics won a $100 Home Depot gift card from Wagner Alernators



Billy Russell of Bud's Starter & Alternator Shop won a 128627 Durofix 12v Drill from Regitar USA




Lynn Gross of Churubusco Auto Electric won a remote controlled cooler truck from WAI Global



Nick Ellison of Scaggs Repair won a $50 Merchandise Certificate from Standard Starter Drive



LaVern Nikkel of L&R Battery & Alternator won an ARD12113 Drill/Driver with 2 batteries from Regitar USA



Lynn Gross of Churubusco Auto Electric won a $50 Visa Gift Card from C.C. Battery Co.



Shawn Walker of Sailon Auto Electric won two 5-packs of cutting blades from Rebuilder-Supply.com




Daniel Hayduck of Roko Services LTD won a WAGAN 7505 iOnBoost Jump Starter from Romaine Electric



Brandon Sairls of Bud's Starter & Alternator Shop won an Apple iPad 9th Generation 64gb from Accumax Auto Parts




Billy Russell of Bud's Alternator & Starter Shop won a PL2310 Battery Charger from East Penn Manufacturing - Deka Battery



Rex Cottrell of Sagle Auto Electric won an IMI-25002-002 Starter from IMI Performance Products

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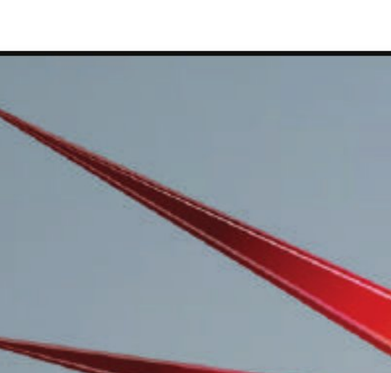

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**18954N-OEM**
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# AUTO ELECTRIC CORNER —

## 11572 Alternator, Chasing Parasitic Drain, Denso Starters, Safety Wiring



BY MOHAMMAD SAMII

The 2024 ERA Show is now behind us and those of you who attended it know it was a great one and a very good learning experience. Having major industry suppliers in one room for a full day is an opportunity that does not come easy. Our collective gratitude goes to the participating suppliers who made it possible and they deserve our full support.

It is also important to point out know much work it takes in planning, negotiating, advertising and management, as well as scouting for affordable hotel selections that be acceptable to the members. Locating a place for group tour and arranging the required transportation, in addition to finding a key-note speaker as well as speakers for the seminars adds a multi-layer of complexity to the process. Thus a sincere kudos is due to ERA staff, particularly Mike, Michele, and Stephanie Schroeder who pulled this off and made this year's ERA Show a successful one. It was great to see many of you there in person.

**Denso 11572 Alternators!**

The Chrysler recall of nearly half a million vehicles built from 2011 to 2014 (equipped with a 3.6L engine and a 160-amp Denso alternator #11572) is not a new subject and has been discussed before. The National Highway Transportation Safety Administration (NHTSA) campaign # 14V-634 required the dealer to remove and replace the alternator (*Figure-1*) with a new one at no charge to the customer. There was of course various class-action lawsuits against the car manufacturer Fiat/Chrysler which is now is called Stellantis. The reason for the safety recall is the partial or complete failure of the alternator due to shorted diodes. This can disable the ABS, the ESC (Electronic Stability Control), the ECM or the CBC (Central Body Controller) which, according to the campaign literature, may cause sudden and unexpected uncontrollability issues, engine shut-down, and even under-hood fires!




*Figure 1 – A 11572 (04801779AG) Alternator (Typical)*

The process of the replacement does not require that the old units be returned to the factory. So a lot of these dangerous cores, which were piling up at the dealerships, have found their way into salvage suppliers. Then they are offered for sale as take-offs at very low prices which is quite lucrative. Most of these cores look pristine and work fine. The value of their like-new or very low mileage de-coupler pulleys makes them very attractive to the buyers. But it should be understood, that if these alternators are used as replacements on other such vehicles, they carry with them the same possibility of the failure and dire consequences which brought about the NHTSA safety recall to begin with.

If you acquire one of these Denso 11572 take-off units, replacing the rectifier with a heavy duty one preferably with copper heatsink (*Figure-2*) from a supplier that you trust will make it a functional alternator that can be used reliably.




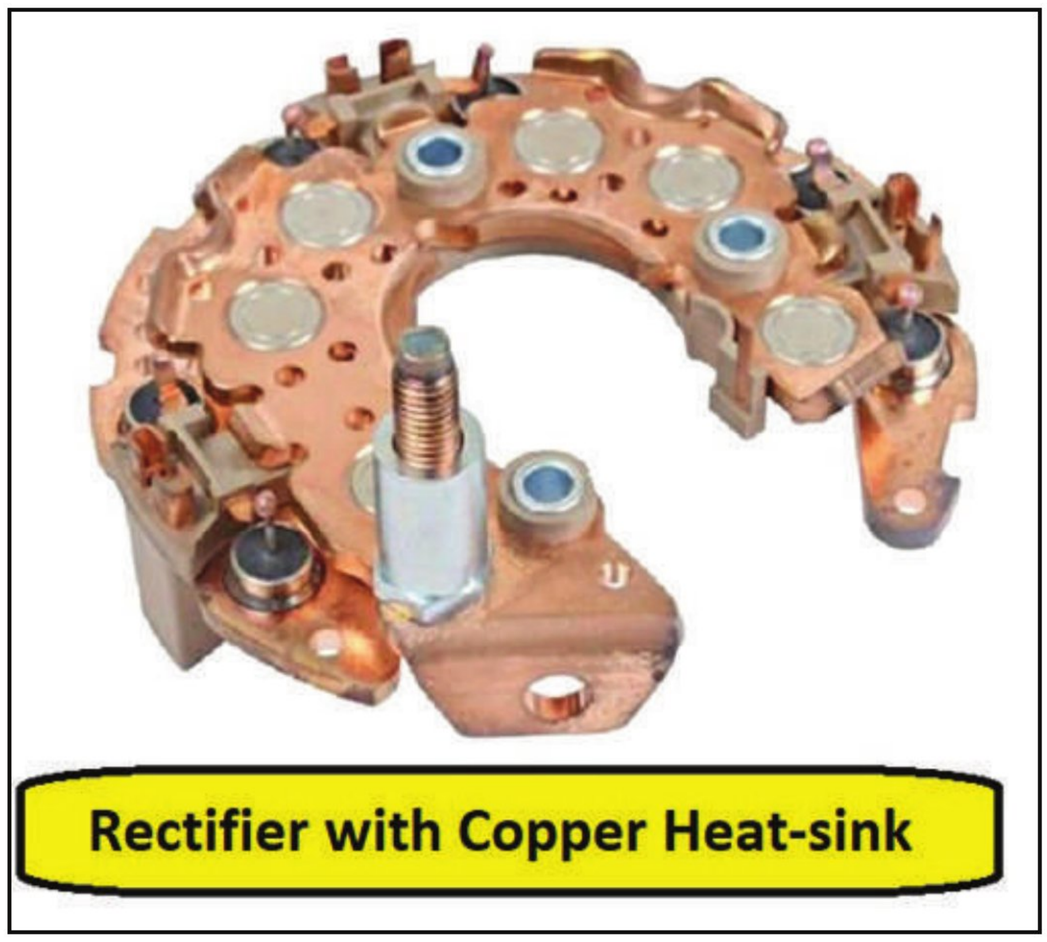


*Figure 2 – Rectifier with 50A Press-fit Avalanche Diodes*

### Chasing for Parasitic Drains

By and large, the vehicles that are sold on dealers' auctions blocks have usually a peculiar and hard to fix problem, not to exclude flood damage that is most possibly the reason for them to be found on auction blocks to begin with. These vehicles are mostly bought by used-car dealers and sold as is, or sometimes they try to fix it for bringing in a better price.

We have a couple of such used-car dealers that send vehicle to us with problems that are hard to fine and hard to fix. They have mostly been through the hands of one or more mechanics for the hope of being fixed, which usually makes the problem worse due to unfamiliarity with the system. We get these challenging vehicles as the last stop and do our best to repair them.

The case in point was this 2005 Chrysler CrossFire vehicle, with near 500mA drain or more that they could not locate and fix, and also inoperative door locks. (*Figure-3*)



*Figure 3 – The 2005 Chrysler CrossFire*

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This vehicle could actually be a sister car to a Mercedes-Benz SLK as it shares over 80% of its parts with the aforementioned Mercedes. They of course had battery and the alternator changed to no avail.

A search through very complicated and interconnected systems of this vehicle (Remember: it is a Mercedes!), we narrowed the drain to the following modules that consisted of 1) Body Control Module or BCM, 2) Power Top Control Module, and 3) Central Locking Pump and Security Module.

One of the unique features of certain German cars and perhaps others, including this one, is that the door lock actuation is pneumatic. That requires an electric pump to apply air pressure to be directed to the respective door lock actuator for operation. Since unlocking any door lock needs to be verified and approved by the security system for entry, there is a very complicated interconnection between the three modules mentioned above as well as with others.

Trying to disconnect each module at a time to see which one affects the battery draw, we came to a positive conclusion that the Central Locking Pump and Security module could be the problem for the reason explained below:

This module (*Figure-4*) is located in a low cavity in the right side of the trunk. One the covers were removed to access the device, and we noticed it was fully submerged in about 4 inched of water. Obviously, the drain plugs were clogged or sealed, thus allowing any water that could have leaked though any seal of the trunk or convertible top had found its way down there, accumulated and had drowned the module (*Figure-5*). The picture in Figure-5 shows the trunk cavity with the module removed, and holes drilled through the grommet to drain the accumulated water.



*Figure 4 – Central Locking Pump and Security Module*

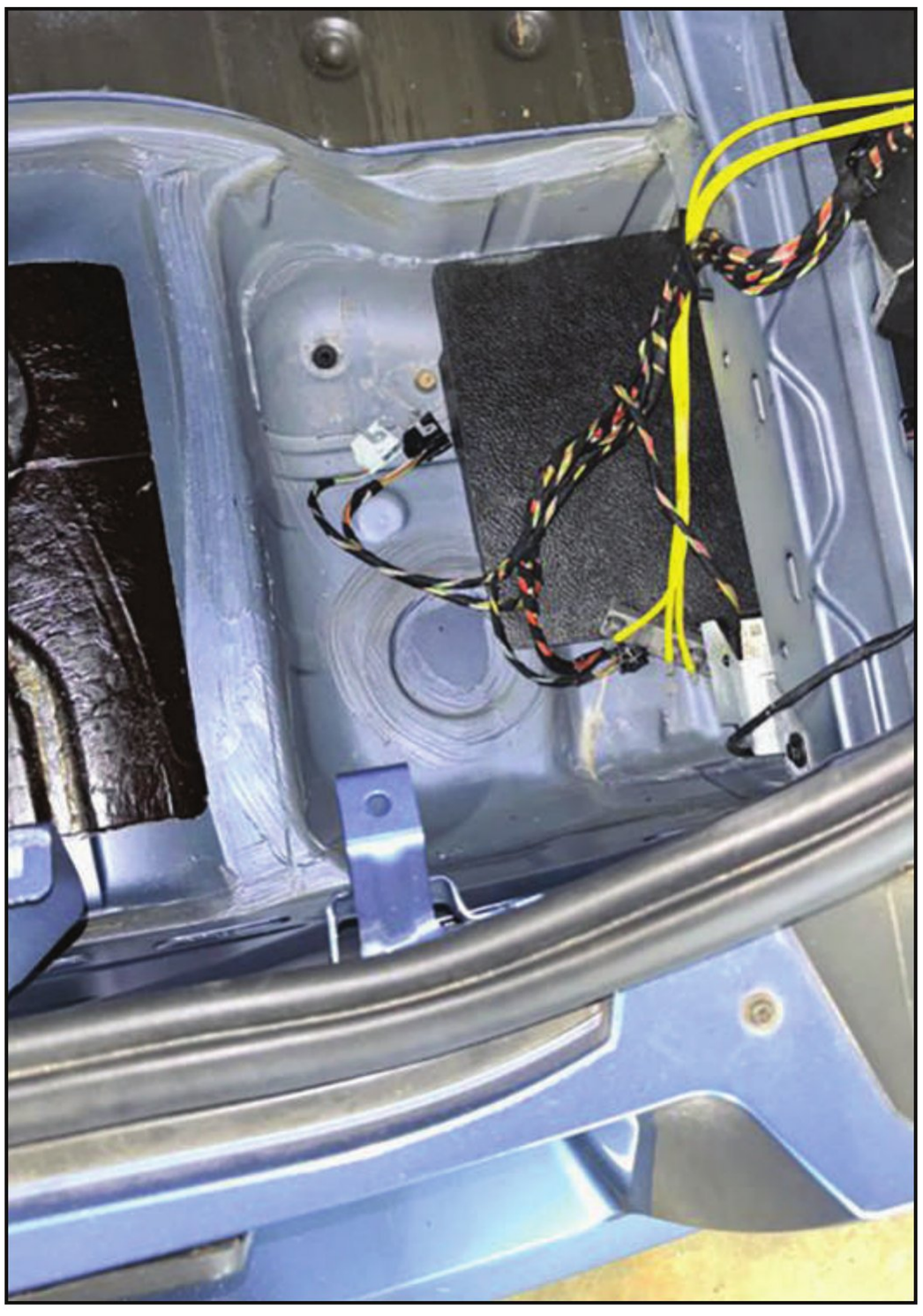
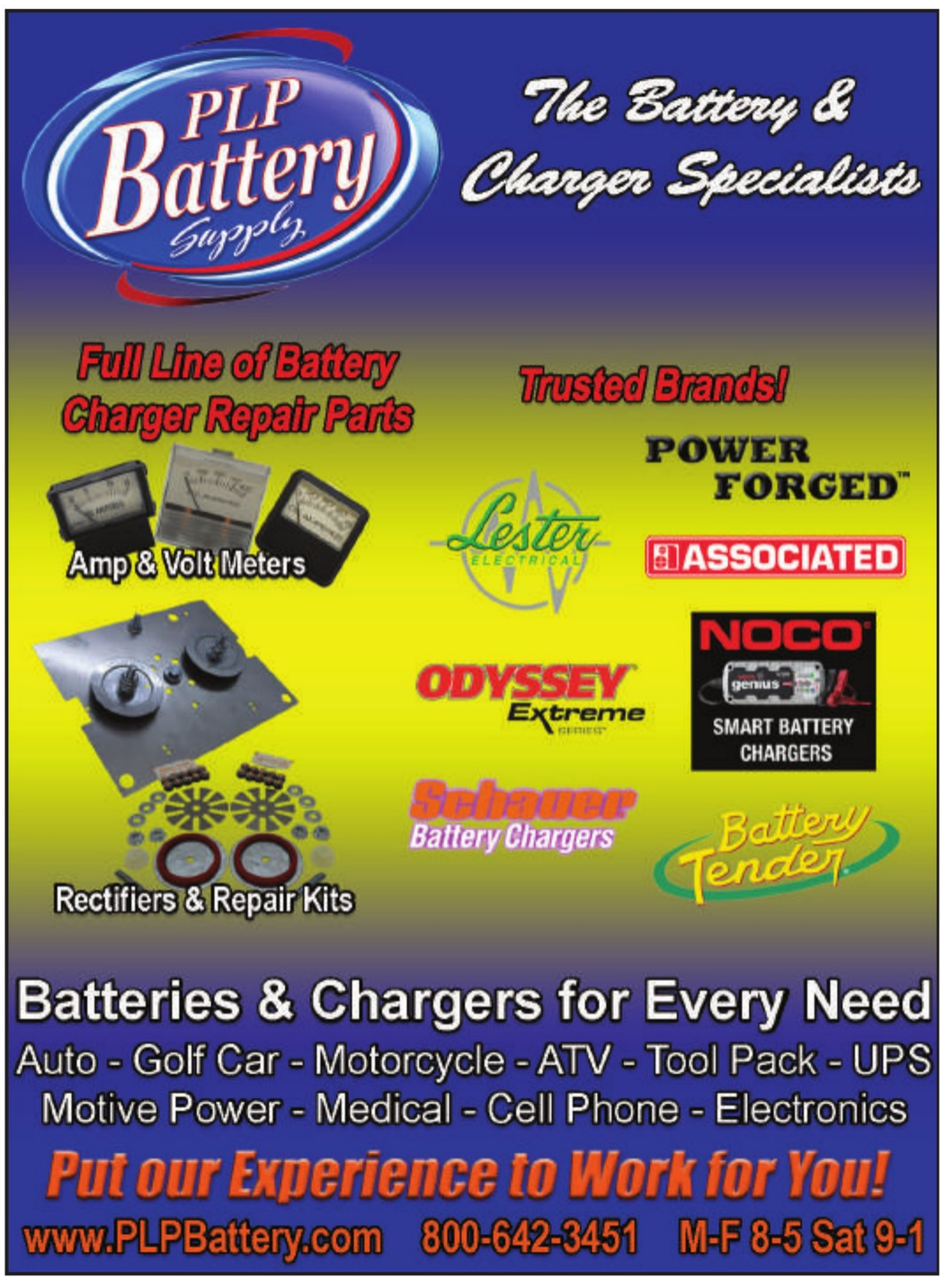


*Figure 5 – The Flooded Cavity in the Trunk*



The module itself is a very complicated device, consisting of a small electric air pump with lots of electronics and multiple connecters that connect this device to nearly every accessory system in the car (*Figure-6*). You can imagine the damage that can be done to all of these electronics being submerged in the water for a long period of time. Of course, removing the module stopped the parasitic drain.

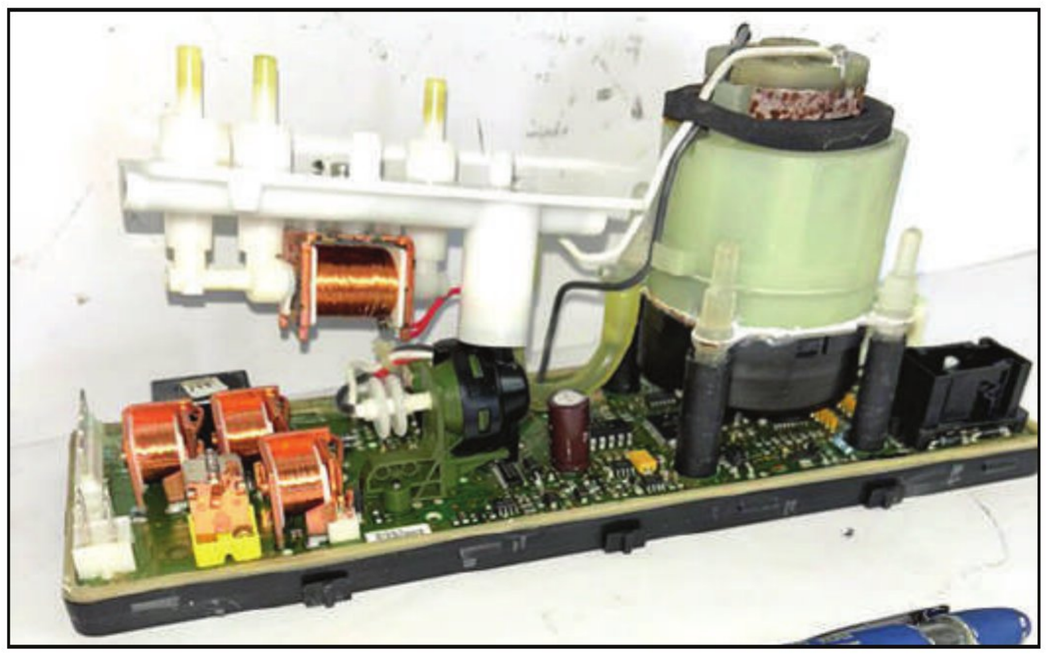


*Figure 6 – Internal View of the Damaged Module*

Looking at the options, there were some used ones available on the market (EBay and such) with dubious reliability and the possibility of a new one costing $1000 plus. The owners were called with our results and with the caveat that more work may be needed as other

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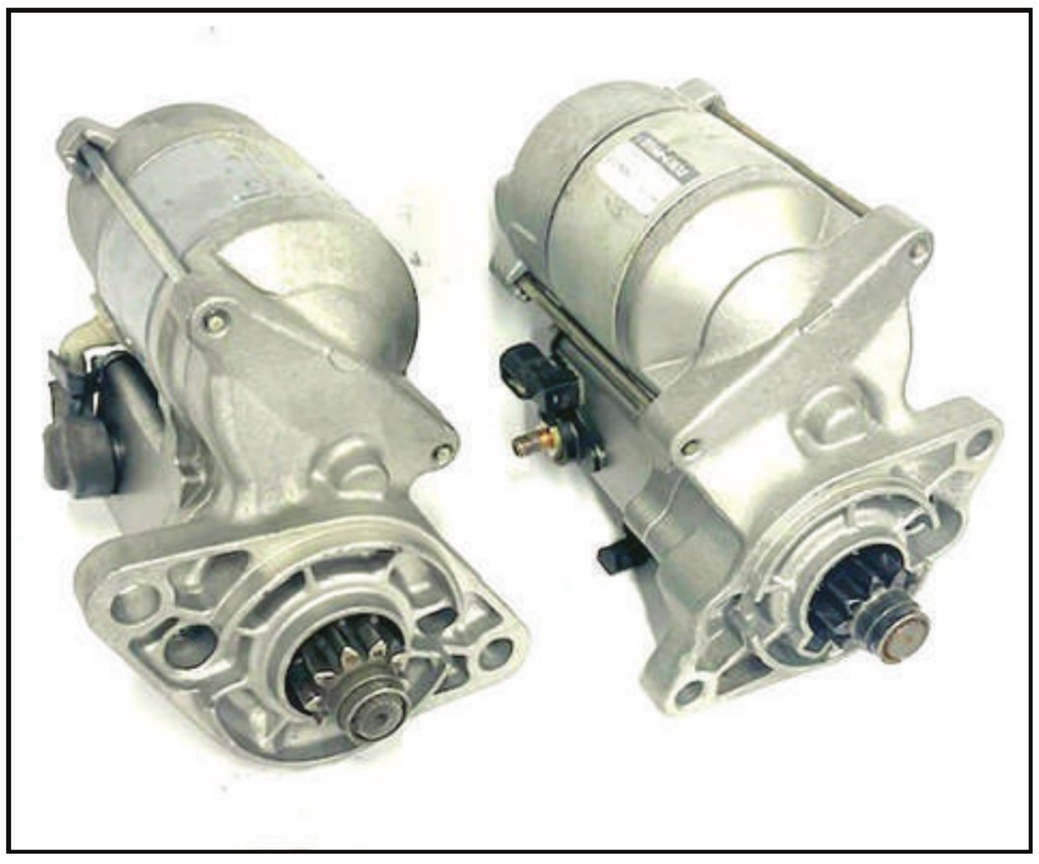

*Figure 7 – High Demand Denso Starters*

systems could have been affected. They took the vehicle as is for now, then will decide to repair it if a viable customer shows up.

**Denso Popular Starters**

By the arrival of the spring and start of the lawn & garden contractor's busy season, we see a great increase in demand for Denso 18400 starters that are used on a variety of equipment, mostly with Kubota engines.

These starters usually operate in a very dusty environment and their chances of being filled up with dirt or having bad solenoids or worn contacts are high.

Another such starter is a similar Denso 18410 used on many smaller forklifts. They are used on floors of smaller factories, lumber yards and such, and they also go through a rough life due to multiple drivers and some neglect.

These two starters that look similar but mount on different sides of their respective engines are very high movers for me and are always in my stock. (*Figure-7*)

If you ever had a call for any of these units, that shows they are in your area, and their chance of failure and needing one is quite high. Quality aftermarket can be found at reasonable prices, so keeping them in stock can pay off well.

**Safety Wires**

The readers recall from time to time I show pictures of the aero alternators that are used in small aircraft and general aviation. These alternators that are mostly the brethren of some earlier automotive units are usually modified for their aero applications. They all have external regulators and depending on the application, they may have brushes that prevent arching in higher altitudes due to thinner air.



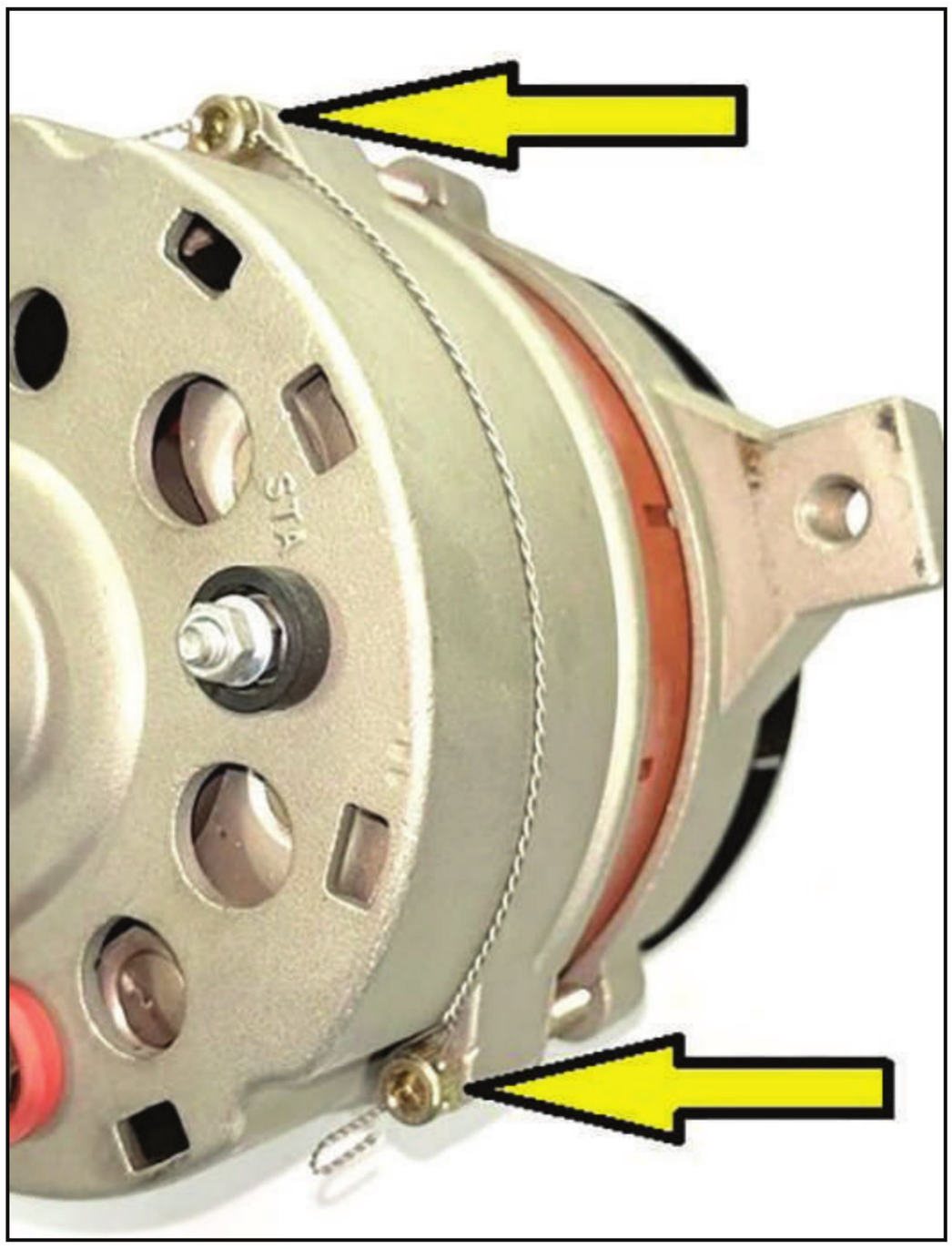

*Figure 8 – An Aero alternator based on Motorcraft design*

The thru-bolts of these alternators need to be safety wired to prevent them from coming loose from vibration (*Figure-8*). Safety wiring by itself is a skill that some capable people can turn it into an art form, but suffice to say to secure a couple of bolts or more together, the safety wire should run in a letter "Z" pattern (*Figure-9*), where loosening one bolt will tighten the other one, thus they stay secure.

The wire itself is made of stainless steel and must meet certain SAE and MIL criteria. The safety wires used in areas exposed to extreme heat—like the

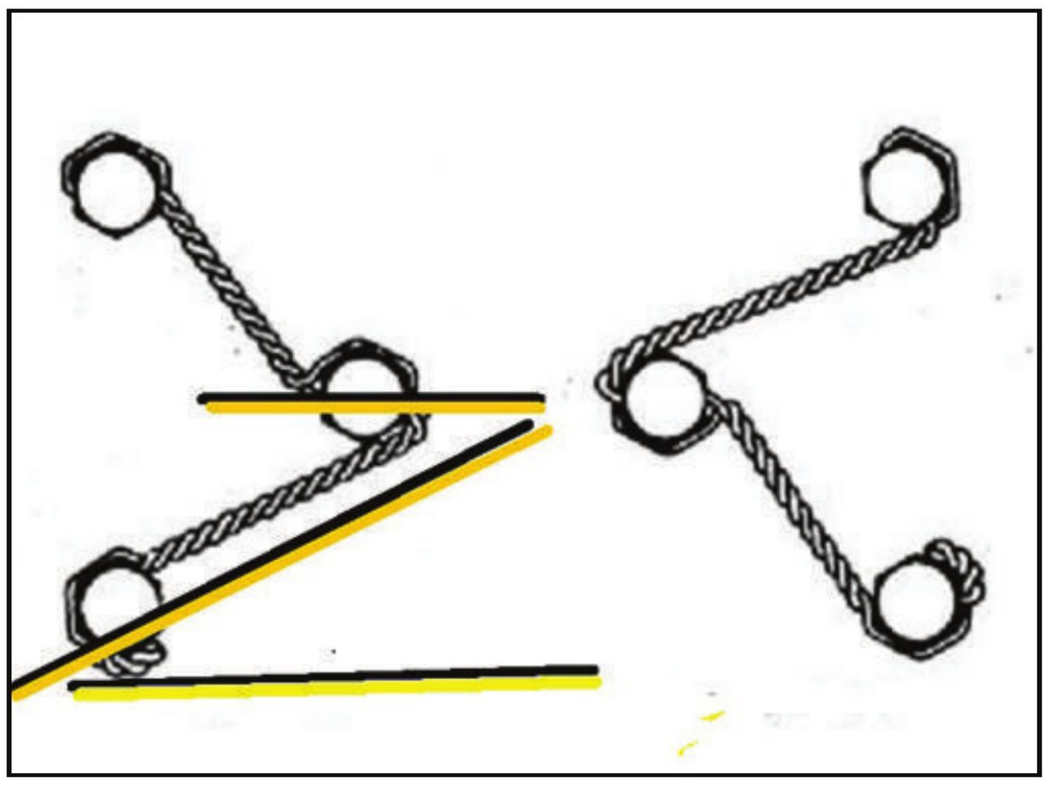

*Figure 9 – Letter "Z" Pattern for Safety Wiring*



combustor section of a jet engine—have a much higher rating than the one used to secure an alternator thru-bolt.

The most common sizes of the safety wire I use are 0.020" and 0.032" in diameter that we buy from some aviation supply company and elsewhere as shown in *Figure-10*. The brand is a common one and meets MS20995C20 standards. Of course, many other vendor options exist. Twisting of the wires is done by a special twist plier made for this purpose, (*Figure-11*) which also comes in smaller sizes for more delicate work in tight spots.

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 217-398-3864*




*Figure 10 – Safety Wire Dispensers*



*Figure 11 – Twist Pliers for Safety Wiring*

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### Tech Help from Mohammad Samii



Do you need help testing an alternator or getting it to work as it should on a vehicle? Call the ERA Tech Help Line and talk to an industry veteran that has over 40 years of rebuilding and on-car experience. Mohammad Samii can help you to find the answers that you need to solve any rebuilding problem. No question is too difficult. "Sammy" has a formidable list of resources at his disposal and is backed up by a line of regular ERA Forum contributors. The ERA is there to help when you need it.


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# 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

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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

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Rebuilt/new armature inventory reduction sale. 1917 $125.00, 2092 $75.00, 1985 $75.00, 2013 $125.00, 2014 $125.00 Select Parts, Inc Sioux City, IA 800-535-8035

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55 plus magneto cores for sale. Call Keith 931-314-5912 for list of part numbers. Make me an offer

## SERVICES

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

## 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.

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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.

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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

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I am looking for a VRT-10 regulator tester made by D&V. Email nathan.unger.asi@gmail.com ph 1-604-864-2198

## BUSINESS FOR SALE

Business for sale. Over 50 year established starter - alternator rebuilder and battery distributor. In Beautiful Southampton Village Long Island. Includes 2000+ new and rebuilt units, batteries, battery related items, accessories, equipment, and component parts. Email jamcostarters@optimum.net

## BUSINESS FOR SALE

Retiring! WELL ESTABLISHED, turn key starter and Alternator Business in IDAHO. Includes units, parts, equipment, and customer base. Shop and apartment available for lease. idahorebuilder@gmail.com

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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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Auto electrical rebuild shop closing after 43 years. Large number of rebuild parts, ~300 units of old/new, all types, Shot Peening Machine, Crumblis Test, and MUCH MORE. Call 904-829-2021 for details

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For sale: complete inventory, rebuilding hand tools, pullers, testers, AES test bench, ARE mb2.5 shot machine, hot water washer, Viking vibrator shaker, Dayton glass bead cabinet, paint booth, shelving, parts books ACE, WAI, J&N many more call Mike 618- 978-8361, 15 minutes from show

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For Sale: Established Starter & Alternator Rebuilding Business in Allentown, PA. Includes 2,500+ new/rebuilt units, comprehensive equipment and component parts. Also includes a centrally located 2000 sq ft retail space/ workshop with below-market rent. Strong customer base. Ideal for expansion or new business ventures. Owner financing is available. 610-432-2888.

**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!







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