

WMDA/CAR GOLF OUTING & FUNDRAISER
A BIG SUCCESSsee pages 4-7

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KIRK'S KORNER

Member Update

by Kirk McCauley
Director of Member Relations & Government Affairs

EMV – THE BIG ELEPHANT AT THE FUEL DISPENSERS

Payment cards that comply with the EMV standard are often called Chip and PIN or Chip and Signature cards. The deadline to have card readers at the pump to read these cards is October 2020.

Card readers that do not comply to EMV standards will still work after this date but all liability for a fraudulent card will shift to the dealer. This liability also includes any card I.D. that skimmers acquire from your pumps that are not EMV compliant. With skimmer technology outpacing prevention, this is an avenue no one should take.

For those of you that already have EMV, its all good; for those that don't, the clock is ticking. Equipment is not going to get less expensive and indeed might be hard to source if you wait until the last minute. There are only so many contractors. As time gets closer, equipment will only increase in price, if available, and contractors will be hard to come by.

MARYLAND – LEAD AND MERCURY WHEEL WEIGHTS

Yes, I said lead wheel weights as in tire balance. As of January 2020, it will be a violation of the law to install a lead or mercury wheel weight in the state of Maryland. Check the link at the bottom of this page – this is already in effect for state owned vehicles. Check with Parts Authority now for what shops are using. It goes without saying to use up your old weights or you will have to start making fishing sinkers.

The upcoming WMDA/CAR Expo in October will have plenty of information on EMV and lead wheel weights.

We have invited Governor Hogan to speak at the Expo and will let you know when we get a reply. We have invited him two years running, but illness and an election two weeks away have nixed his ability to attend. Let's see if the third year is a charm.

Remember the Expo is FREE to those in the trade. Awards Dinner tickets are \$55.00 each or a table for 10 is \$500.00. We have been sold out both years. Don't wait – make your plans now for October 15 at Martins West, just off Baltimore beltway.

DELAWARE NEWS

The Delaware General Assembly decided not to move forward with a \$15.00 per hour minimum wage. Governor

Carney was hesitant, and Senator Pro Temp David McBride said he would not bring it to the floor. WMDA/CAR testified against this bill on June 12 in Delaware. The main reason for concern was the effect it would have on small businesses' ability to hire entry level workers. Replacing those workers in some cases with artificial intelligence (AI) in localities that have passed \$15.00 per hour minimum wage. We have seen this AI in food preparations, to robots that clean the floors.

GENERAL MEMBERSHIP MEETING AND GOLF OUTING

WMDA/CAR had a good General Membership Meeting on June 13 at Seibels Restaurant. We had a full house and a good breakfast that was free to attendees and we introduced Reit Lubricants to our membership. Reit has a high-quality Chevron synthetic oil at the Reit price. They also have traditional oils and can supply dispensing equipment.

WMDA/CAR asked Attorney Jim Parsons to talk to Montgomery County dealers about Wawa and Royal Farms coming to the Gaithersburg area. He gave dealers as much information as he had at that time and we will have another informational session on July 9 after more is obtained. Any MoCo dealers wishing to attend, please email or call me because seating will be limited.

The Golf Outing on June 25 was not only successful from the WMDA/CAR perspective, but raised thousands of dollars for the Alzheimer's Association, thanks to our members and generous sponsors. Swapna Sripada our Director of Operations put this all together – sponsors, players and a great location. Debra and Jenise braved the heat to make sure all was correct, and players signed up. Swapna has an article in this issue so I will leave it to her to give you all the details and recognize our sponsors.

CUSTOMER SERVICE CONTEST – REPAIR SHOP OWNERS WANTED

Sign up for the Harry T. Murphy Customer Service Contest and be recognized by your peers October 15 at the WMDA/CAR Expo Awards Ceremony – email me with owner's name, shop name, cell phone and email address. No charge for signing up, CAR sponsors your entry. Any service stations or convenience store can also sign up on their own. Any Questions, email me at kmccauley@wmdda.net or call my cell at 301-775-0221. ♦

WMDA/CAR COMPLIANCE ALERT – CHANGES EFFECTIVE JULY 2019

MARYLAND

Montgomery County – Minimum wage increases \$13.00 dollars per hr. for employers with 51 or more employees, \$12.50 for 50 or fewer July 1st.
<https://www.dlfr.state.md.us/labor/wages/wagehrfacts.shtml>

Maryland, and Prince George's County do not change minimum wage this year.

Fuel rates increase 1.4cents per Gallon July 1st – click on link for details:

https://taxes.marylandtaxes.gov/Business_Taxes/Business_Tax_Types/Motor_Fuel_Tax/Tax_Information/Motor_Fuel_Tax_Rates/MFT_RatesPerGallon_052119.pdf

You will owe a floor tax on gallons in the ground as of July 1st.

DISTRICT OF COLUMBIA

Minimum wage increases to \$14.00 per hour July 1st – click link for details:

<https://does.dc.gov/service/office-wage-hour-compliance>

Paid leave – Employers pay 0.62% of payroll – click link for details:

<https://dcpaidfamilyleave.dc.gov/>

DELAWARE

Tobacco age 21 goes in effect July 16th

VIRGINIA

Tobacco age 21 effective July 1st

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COMMUNITY INVOLVEMENT FOR BUSINESSES

by Swapna Sripada
WMDA/CAR Director of Operations

As a business owner, you are already aware that your customers are the lifeblood of your business. And that's why it's important that you engage with them. Gone are those days when businesses only had to respond to shareholders. Today's consumers expect more of the businesses they patronize and one of those things they expect is more COMMUNITY INVOLVEMENT.

The problem is, there are plenty of businesses out there that just don't understand the importance of engagement!

So, what is Community Engagement? The simple answer is that it can be anything from sponsoring an event at the school nearby, supporting a PTA, the local Volunteer Fire Station, sponsoring a little league, free coffee for military veterans or teachers or nurses, and more.



Volunteering in the community is a great way to network and build relationships. It boosts visibility and gives a human face to a business. Customers prefer to purchase from a business they know, and the community involvement breeds a sense of familiarity. So, if you are a single-store owner or have multiple stores, getting involved in the community where your business is located is a must.

WMDA/CAR GOLF OUTING & FUNDRAISER UPDATE

For many years it was a tradition at WMDA to host a Golf Outing along with its Annual Expo and Trade Show in Ocean City. Since we moved to Martin's West in 2017, the golf outing was discontinued. This year however, WMDA revived that tradition and hosted its Annual Golf Outing with a Fundraiser for the Alzheimer's Association with Giving Back to the Community in mind. June is Alzheimer's and Brain Health Awareness Month and we were pleased to combine our Golf Outing with a Fundraiser for the Alzheimer's Association.

We are overwhelmed by the immense support we received from our members and non-members alike with generous sponsorship dollars, prizes, bag stuffers and golfers – 71 golfers registered for the event!! Mother nature blessed us with a beautiful sunny day to play golf for a good cause.

A complete list of all the sponsors is shown on the next page, but I must give a BIG SHOUT OUT to the following: The Wills Group and Parts Authority – in addition to the Tiger Woods Package sponsorship they also gave every golfer a 3-pack of golf balls. Century Distributors has always been a strong supporter of our association, thanks for the goodies and the goodie bags! Thanks also goes to NSR Petro Services, Ewing Oil and Spigler Petroleum for the beer and beverages on the course – much appreciated! Thank you to DDM Insurance Agency for the Continental Breakfast, and finally Waymon Lynch Insurance Agency for sponsoring our Lunch.

I hope that our simple act of charity has elevated your spirit and inspired you to be more involved in your own respective communities. Giving back to your community is an investment in your own business and lives. The community will stand by you in your time of need.

NEW COLUMN COMING

Starting next month, we will have a new column in our Newsletter – "Giving back to the Community". If you currently do any charitable projects in your community, please send us a small article with details of your charity and/or the pictures so that we can feature your business in our newsletter.



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Service Station Vending Equipment, Inc.
Sign Tek
Spigler Petroleum
Star Financial Services



WMDA/CAR Golf Outing & Fundraiser



WMDA/CAR Golf Outing & Fundraiser



SUPPORT YOUR WMDA/CAR PAC FUND



What do the Bog Turtle and the Delmarva Fox Squirrel have in common with small businesses in the state of Maryland?

Thanks to the entrenched majority and their leadership in Maryland's House of Delegates and Senate, all are now endangered species. While the above two animals have the state's help to try to increase their habitat and population, it seems that the two aforementioned legislative bodies are doing everything they can to hurt and eliminate small businesses.

A change is needed in Annapolis and this is going to need funding.

Your WMDA/CAR PAC FUND contributions will go towards helping elect people that understand the responsibility of making a weekly payroll and having all your families' assets, hopes and future tied up in the value of their business.

Suggested Contributions:

1 Location	\$150.00 or more
2-5 Locations	\$300.00 or more
6-10 Locations	\$500.00 or more
10 + Locations	\$1000.00 or more

This is going to be a multi-year project and we will join with other likeminded organizations to get the most bang for the buck.

Thank you,

WMDA/CAR PAC Committee



**Your contribution and support
can make a difference!**

Date: _____ Amount of Contribution: _____
Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Email: _____

Make your check payable to WMDA PAC and mail to:

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Donations used for the upcoming election cycle. Donations are not tax deductible.

SAVE THE DATE

FOR THE 2019 WMDA/CAR EXPO, BULL ROAST & AWARD PRESENTATIONS

FEATURING INDUSTRY ACKNOWLEDGEMENTS &
THE HARRY T. MURPHY CUSTOMER SERVICE CONTEST

Martin's West
6817 Dogwood Road
Baltimore, MD

Tuesday,
October 15, 2019
2:00 p.m. – 9:00 p.m.



Schedule of Events

TABLETOP EXPO

2:00 p.m. - 6:00 p.m.

LIGHT LUNCH (Expo floor)

3:00 p.m. - 5:00 p.m.

COCKTAIL RECEPTION (Expo floor)

5:00 p.m. - 6:00 p.m.

BULL ROAST & AWARD PRESENTATIONS

6:00 p.m. - 9:00 p.m.



The WMDA/CAR Expo

is designed as a place
to meet with exhibitors,
learn about the latest products
and services, develop new
business opportunities,
network, and build
lasting relationships.



CAR TALK

Member Profile: Ryan Daggle Business and Family Do Mix

by Sandi Weaver
BA Auto Care, Inc.

Across from a fire station, on a prime spot in Columbia, MD, sits a very impressive Exxon station. What makes this service station so impressive is the number of smaller businesses Ryan Daggle has within the station. The Columbia Exxon/Columbia Auto Care and Wash houses 12 service bays, a C-Store, a 24-hour locksmith, a pizza shop, rental cars, a car wash and detailing. With all this under one roof, how does Ryan do it? With help.

Ryan's brother, Trevor, runs the service bays side of the business which includes the 12 service bays, 5 ASE certified technicians and a service advisor. Columbia Auto Care is a Mobil 1 Lube Express center open 6 days a week offering a wide variety of services; repairs, diagnostic, tires, state inspections and more. Ryan said they put a little more focus on the Maryland State Inspection being in such a transient area and offer \$15 off to help encourage new customers to come in. When a problem vehicle causes a delay, Trevor can turn to the rental car side and provide the customer with transportation until their vehicle is fixed.

Keeping the books straight is the job of Ryan's sister, Kristin. While Kristin's full-time job is raising her three children, she works with Ryan as the bookkeeper. Kristin, along with Ryan and Trevor grew up in the service station life. Their father, Jerry, owned Exxon stations in Northern Virginia since the 1970s.

Although Ryan doesn't own the pizza shop or the locksmith company, they offer extended services for Ryan's customers. Waterloo Pizza and Subs was a tenant of the previous owner and when Exxon shut down the station, the pizza shop had to leave. In 2009 Ryan was chosen to re-open the station and says he had so many people asking about it, they tracked down the owner and asked him to re-open. The locksmith, AB Locksmith, is in a very unique part of the station; they rent out



the old full-service booth, a perfect size and a great use of the often-empty little building.

Celebrating 10 years in business this August, Ryan said the service bays and car wash was a complete wreck when they took over. With only one out of 12 lifts working and the car wash full of junk, it took time and effort to make it the clean and tidy shop it is now. With a new Hunter Hawkeye alignment machine, neatly hung tires and still shiny lifts, you wouldn't recognize the place.

It's not just the building which has been updated, the technicians also keep updated by attending training classes including the EAST training classes WMDA/CAR offered this year. Like Ryan's techs, take advantage of our training sessions.

2019 remaining training courses:

- Course 131 – Electronics in the Modern Vehicle
October 9th & 10th
- Course 131B – Electronics in the Modern Vehicle Update
October 23rd & 24th

Visit www.wmda.net/events for more information. ♦





2019 WMDA/CAR TRAINING SCHEDULE

Presented By EAST Training (Enhanced Automotive Systems Technology, Inc.)

Wednesday & Thursday – October 9 & 10, 2019

131A Electronics in the Modern Automobile

Hillmuth Automotive Columbia, 6810 Oak Hall Lane, Columbia, MD

Application of electronic components in the automobile. Semiconductors, barrier voltage, diodes, for rectification, circuit protection, current control, zener diodes for voltage regulation. LED's, transistors NPN, PNP, Darlington pairs, SCR's (Silicon Controlled Rectifiers), open collector transistors – construction function and testing. Resistors and condensers in automotive circuits. Several types of automotive electronic circuits will be evaluated and explained. Schematics will be presented describing construction of several useful shop diagnostic tools, which can be assembled using knowledge learned in this course. Students are asked to bring their DVOM/DMM.

Wednesday & Thursday – October 23 & 24, 2019

131B Electronics in the Modern Automobile Update

Hillmuth Automotive Columbia, 6810 Oak Hall Lane, Columbia, MD

This course builds on Electronics Module 1. We will cover additional electronic components and systems used in the automobiles of today and tomorrow. We will delve deeper into the use of semiconductors – transistors, photoelectric devices – photocells and photoresistive components. We will be constructing more complex circuits on our electronic trainer boards. We will cover transistor gain and build circuits to demonstrate and measure gain. Case studies will be included which will demonstrate how your new found knowledge of transistor operation will allow you to diagnose and actually repair failed components. We will explain and demonstrate the use of Logic probes and Logic pulsers. This is a hands-on class. Students are asked to bring their DVOM/DMM.

PLEASE NOTE: Wednesday/Thursday classes meet 4 hours each day from 6:00 p.m. to 10:00 p.m. Food will be served at 5:30 p.m.

REGISTRATION FEE: Registration fee of \$199 for member technicians and \$299 for non-member technicians covers both days and includes food and drink.

FOR MORE INFORMATION: Visit www.wmda.net or email Debra Webster at dwebster@wmda.net or call 301-390-0900, ext. 101.

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TECH TIP

Automotive Repair Acronyms

A

A4: 4-Speed Automatic Transmission
A5: 5-Speed Automatic Transmission
A6: 6-Speed Automatic Transmission
AAR: Automatic Air Recirculation
ABS: Antilock Braking System
ABSV: Air Bypass Solenoid Valve
AC: Alternating Current
A/C: Air Conditioning
ACU: Actual Cash Value
ACTS: Air Charge Temperature Sensor
ADB: Automatic Damping Control
ADB: Adaptive Driving Beam
AdvHEV: Hybrid Vehicle
ADL: Automatic Door Locks
AED: Automatic Enrichment Vehicle
AEI: Integrated Electronic Injection
A/F: Air/Fuel Ratio
AFC: Air Flow Control
AFL: Adaptive Front Light
AFM: Air Flow Meter
AFS: Air Flow Sensor
AFS: Adaptive Front Light System
ALC: Automatic Level Control
ALCL: Assembly Line Communications Link
ALDL: Assembly Line Data Link
AM: Amplitude Modification
AMP: Amplifier
AMT: Automated Manual Transmission
AOD: Automatic Overdrive
AOS: Automatic Occupant Sensor
AP0: All Power Options
APS: Absolute Pressure Sensor
APS: Atmospheric Pressure Sensor
ASC: Automatic Stability Control
ASC+T: Automatic Stability Control and Traction
ASDM: Airbag System Diagnostic Module
ARAK: Active Rear Axle Kinematics
AT: Automatic Transmission
A/T: Automatic Transmission
ATC: Adaptive Transmission Control
ATC: Automatic Temperature Control
ATDC: After Top Dead Center
ATF: Automatic transmission Fluid
ATF: Automatic Transmission Fluid
ATLS: Automated Truck Loading Systems
ATS: Air Temperature Sensor
Autogas: LPG When Used as a Vehicle Fuel
AW: Alloy Wheels
AWD: All Wheel Drive

B

B+: Battery Positive Voltage
BARO: Barometric Pressure
BAS: Braking Assists System
BAT: Battery
BCM: Body Control Module
BDC: Bottom Dead Center
BEC: Bussed Electrical Center

BHP: Brake Horse Power

BMAP: Barometric/Manifold Absolute Pressure Sensor
BPMV: Brake Pressure Modulator Valve
BPS: Back Pressure Sensor
BPT: Back Pressure Transducer
BTDC: Before Top Dead Center
BTSI: Brake Transmission Shift Interlock
BTU: British Thermal Units

C

C: Celsius
C3I: Computer Controlled Coil Ignition
CAB: Cabriolet/Convertible
CAD: Computer Aided Design
CALPAK: Calibration Pack
CAN: Controller Area Network
CANP: Canister Purge Solenoid Valve
CARB: California Air Research Board
CAS: Crank Angle Sensor
CBC: Cornering Brake Control
CC: Cubic Centimeter
CCP: Coupled Cam Phasing
CCP: Climate Control Panel
CD: Compact Disc
CD: Drag Coefficient
CDI: Capacitor Discharge Ignition
CEAB: Cold Engine Air Bleed
CECU: Central Electronic Control Unit
CER: Cold Enrichment Rod
CESS: Cold Engine Sensor Switch
CFI: Central Fuel Injection
CFI: Continuous Fuel Injection
CFM: Cubic Feet Per Minute
CH4: Methane
CID: Cylinder Identification Sensor
CID: Cubic Inch Displacement
CIS: Continuous Injection System
CKP: Crankshaft Position Sensor
CMP: Camshaft Position Sensor
CNG: Compressed Natural Gas
CO: Carbon Monoxide
CO2: Carbon Dioxide
COP: Coil On Plug ignition
CPA: Connector Position Assurance
CPE: Coupe
CPI: Central Port Injection
CPU: Central Processing Unit
CSSA: Cold Start Spark Advance
CSSH: Cold Start Spark Hold
CTD: Content Theft Deterrent
CTS: Coolant Temperature Sensor
CTVS: Choke Thermal Vacuum Switch
CVR: Control Vacuum Regulator
CVRSS: Continuously Variable Road Sensing Suspension
CVT: Continuously variable transmission
CVVL: Continuous Variable Valve Lift

D

DB: Decibels
DBC: Dynamic Brake Control
DC: Direct Current
DCP: Dual Cam Phasing
DCT: Dual Clutch Transmission
DDE: Digital Diesel Electronics
DDM: Driver Door Module
DDS: Driver Door Switch (Smart Switch)
DeAct: Cylinder Deactivation
DEFI: Digital Electronic Fuel Injection
DFS: Deceleration Fuel Shutoff
dHCCI: Diesel Homogeneous Charge Compression Ignition
DIC: Driver Information Center
DIM: Dash Integrated Module
DIS: Distributorless Ignition System
DIS: Direct Ignition System
DIS: Diagnosis information system
DLC: Data Link Connector
DME: Digital Motor Electronics
DOHC: Double Overhead Camshaft
DPF: Diesel Particulate Filter
DRL: Daytime Running Lamps
DSC: Dynamic Stability Control
DSP: Digital Signal Processing
DTC: Diagnostic Trouble Code
DVOM: Digital Volt Ohm Meter
DVVL: Discrete Variable Valve Lift.
DVVLD: Discrete Variable Valve Lift, Includes Dual Cam Phasing.
DVVLi: Discrete Variable Valve Lift, Includes Intake Valve Cam Phasing
DZM: Door Zone Module

E

E: Economy
eACC: Improved Electric Accessories
EAT: Electronically Assisted Turbocharging
E&C: Entertainment and Comfort
E2PROM: Electrically Erasable Programmable Read Only Memory
EACV: Electronic Air Control Valve
EBCM: Electronic Brake Control Module
EBM: Electronic Body Module
EBTCM: Electronic Brake and Traction Control Module
ECA: Electronic Control Assembly
ECC: Electronic Climate Control
ECM: Engine Control Module
ECT: Engine Coolant Temperature
ECU: Electronic Control Unit
EDC: Electronic Damping Control
EDIS: Electronic Distributorless Ignition System
EDTC: Engine Drag Torque Control
EEC: Exhaust Emission Control
EEPROM: Electronically Erasable Programmable Read Only Memory
E2PROM: Electronically Erasable Programmable

TECH TIP – Automotive Repair Acronyms

Read Only Memory
EFC: Electronic Fuel Control
EFCA: Electronic Fuel Control Assembly
EFI: Electronic Fuel Injection
EGO: Exhaust Gas Oxygen Sensor
EGR: Exhaust Gas Recirculation
EGRPS: EGR Valve Position Sensor
EGRT: EGR Temperature
EH: Electronic-Hydraulic
EHCVA: Electrohydraulic Camless Valve Activation
EMCVA: Electromagnetic Camless Valve Activation
EHPS: Electrohydraulic Power Steering
EI: Electronic Ignition
ELC: Electronic Level Control
EMC: Electro-Magnetic Compatibility
EMFAC: ARB Emission Factors Modeling Software (EMFAC2007 v2.3 November 1, 2006)
EMI: Electromagnetic Interference
EMR: Electronic Module Retard
EOS: Exhaust Oxygen Sensor
EOBD: European Onboard Diagnostics
EPC: Engine Power Control
EPOS: EGR Valve Position Sensor
EPROM: Erasable Programmable Read Only Memory (Chip)
EPS: Electric Power Steering
ESA: Engine Spark Advance
ESC: Electronic Spark Control
ESI: Electronic Service Information
EST: Electronic Spark Timing
ET: Elapsed time
EVAP: Evaporative Emission System
EVP: EGR Valve Position Sensor
EWP: Electric Water Pump
EWP: Elevated work platform

F

F: Fahrenheit
FBC: Feedback Carburetor System
FBCA: Feedback Carburetor Actuator
FCS: Fuel Control Solenoid
FDC: Fuel Deceleration Valve
FDC: Fixed Displacement Compressor
FI: Fuel Injection
F.I.R.S.T: Fully integrated Road Safety
FLS: Fluid Level Sensor
FM: Frequency Modulation
FPDM: Front Passenger Door Module
Ft.lb.: Foot Pound
FTP: Federal Test Procedure
FWD: Front-Wheel Drive
4WD: Four-Wheel Drive

G

Gal: Gallon
GDI: Gasoline Direct Injection
GDI-L: Lean-Burn Gasoline Direct Injection
GDI-S: Stoichiometric Gasoline Direct Injection
GEN: Generator
GHCCI: Gasoline Homogenous Charge Compression Ignition
GHG: Greenhouse Gas
G/Mi: Grams Per Mile

GND: Ground
GPM: Grams Per Mile
GT: Gran/Grand Turismo
GVW: Gross Vehicle Weight
GVWR: Gross Vehicle Weight Rating
GWP: Global Warming Potential

H

H2O: Water
HC: Hydrocarbon
HC: High Compression
HD: Heavy Duty
HDC: Hill Descent Control
HEGO: Heated Exhaust Gas Oxygen Sensor
HEI: High Energy Ignition
HEV: Hybrid-Electric Vehicle
HFC: Hydrofluorocarbon
Hg: Mercury
HO2S: Heated Oxygen Sensor
HOTSHOT: Heated Windshield Fluid Module
HP: Horsepower
HSDI: High-Speed (Diesel) Direct Injection.
HUD: Head-Up Display
HVAC: Heating Ventilation and Air Conditioning
HYD: Hydraulic
HT: High Tension

I

I: Injection
IAC: Idle Air Control
IAT: Intake Air Temperature
IATS: Intake Air Temperature Sensor
IC: Integrated Circuit
ICM: Ignition Control Module
ICP: Intake Cam Phaser
ICS: Idle Control Solenoid
ID: Inside Diameter
IFI: Indirect Fuel Injection
ImpAlt: Improved Efficiency Alternator
IGN: Ignition
IP: Instrument Panel
IPC: Instrument Panel Cluster
IPM: Instrument Panel Integration Module
IPM/CCP: Instrument Panel Integration Module/Climate Control Panel
IRC: Integrated Radio Control
ISC: Idle Speed Control
ISG: Integrated Starter-Generator System
ISG-SS: Integrated Starter-Generator System with Start Stop Operation
ISO: International Standards Organization
ITCS: Ignition Timing Control System
ITS: Idle Tracking Switch

J

JAS: Jet Air System

K

KAT: Catalytic converter
KDD: Keyboard Display Driver
KHz: Kilohertz
Km: Kilometers

KOEC: "Key On, Engine Cranking"
KOEO: "Key On, Engine Off"
KOER: "Key On, Engine Running"
KPa: Kilopascal
KS: Knock Sensor
KV: Kilovolts

L

L4: In-Line Four Cylinder
L: Liters
L: Limousine
Lb. ft.: Pound Feet
LBEC: Left Side Bussed Electrical Center
LC: Low Compression
LCD: Liquid Crystal Display
LCM: Lamp Control Module
LED: Light Emitting Diode
LEV: Low Emissions Vehicle
LGM: Lift Gate Module
LHD: Left-Hand Drive
LPG: Liquefied Petroleum Gas
LSD: Limited Slip Differential
LSR: Load Speed Record
LTD: Light Duty Truck
LTD1: Light-Duty Truck with a Loaded Vehicle Weight of up to 3750 Pounds
LTD2: Light-duty Truck with a Loaded Vehicle weight of up to 3751 Pounds to a Gross Vehicle Weight of 8500 Pounds
LTFT: Long Term Fuel Trim
LWV: Loaded Vehicle Weight
LWB: Long Wheel-Base

M

MAC: Mobile Air Conditioning
MAF: Mass Air Flow
MAP: Manifold Absolute Pressure
MAT: Manifold Air Temperature
Max: Maximum
MBEC: Middle Bussed Electrical Center
MBS: Maximum brake support
Mch: Mechanical
MCS: Mixture Control Solenoid
MCT: Manifold Charge Temperature
MDPV: Medium Duty Passenger Vehicle
MDV: Medium Duty Vehicle
MFI: Multi Port Fuel Injection
MG/Mi: Milligrams Per Mile
MIL: Malfunction Indicator Light
MIN: Minimum
MM: Millimeters
ModHEV: Moderate Hybrid
MPFI: Multi Point Fuel Injection
MPG: Miles Per Gallon
MPH: Miles Per Hour
MPI: Multi Port Injection
MPV: Multi-Purpose Vehicle
MS: Millisecond
MSM: Memory Seat Module
MT: Manual Transmission
MUX: Multiplexed
MV: Millivolts

TECH TIP – Automotive Repair Acronyms

N

N2O: Nitrous Oxide
NEG: Negative
NM: Newton Meters
NMOG: Non-Methane Organic Gas
NOX: Oxides of Nitrogen
NVRAM: Nonvolatile Random Access Memory

O

O2: Oxygen
O2S: Oxygen Sensor
OBD: Onboard Diagnostics
OBD I: Onboard Diagnostics One
OBD II: Onboard Diagnostics Two
OD: Outside Diameter
OD: Over Drive
OE: Original Equipment
OEM: Original Equipment Manufacturer
OHC: Overhead Camshaft
OHV: Overhead Valve
ORV: Off road vehicle
OS: Oxygen Sensor

P

PA: Pressure Air
PAIR: Pulsed Secondary Air Injection
PAS: Power-Assisted Steering
PB: Power Brakes
P/B: Power Bakes
PC: Passenger Car
PCB: Printed Circuit Board (Relays Integrated into UBEC)
PCM: Powertrain Control Module
PCV: Positive Crankcase Ventilation
PDC: Park Distance Control
PECV: Power Enrichment Control Valve
PFI: Port Fuel Injection
PID: Parameter ID
PIP: Profile ignition pickup
PL: Power locks
P/N: Part Number
PNP: Park/Neutral Switch
POS: Positive
PPM: Parts Per Million
PROM: Program Read Only Memory (Chip)
PS: Power Steering
PS: Power Seats
PSI: Pounds Per Square Inch
PSP: Power Steering Pressure
PTC: Pending Trouble Code
PTC: Positive Temperature Coefficient
PW: Power Window
PWM: Pulse Width Modulated
PWR: Power to Weight Ratio
PZM: Platform Zone Module

Q

Qt.: Quart

R

R-134A: Refrigerant 134a Tetrafluoroethane (C2H2F4)
R-152A: Refirgerent 152a Difluoroethane (C2H4F4)
RAM: Random Access Memory
RAP: Retainer Accessory Power
RAV: Remote Activation Verification
RBEC: Rear Bussed Electrical Center
RDS: Radio Data System
RFA: Remote Function Actuator
RFI: Radio Frequency Interference
RHD: Right-Hand Drive
RIM: Rear Integration Module
RKE: Remote Keyless Entry
ROM: Read Only Memory
RON: Rated Octane Number
RPM: Revolutions Per Minute
RRDM: Right Rear Door Module
RSA: Rear Seat Audio module
RUF: Adaptable to catalytic converter
RTD: Real Time Damping
RVC: Rear Vision Camera
RWD: Rear-Wheel Drive

S

SAE: Society of Automotive Engineering
SBD: Strategy Based Diagnostics
SC: Single Carburetor
SC: Supercharged
SEFI: Sequential Electronic Fuel Injection
SES: Service Engine Soon (Light)
SFI: Sequential Fuel Injection
SIPS: Side Impact Protection System
SISM: Side Impact Sensing Module
SLS: Self Leveling Suspension
SMCC: Stepper Motor Cruise Control
SOH: State of Health
SOHC: Single Over Head Camshaft
SPI: Serial Peripheral Interface
SR: Sunroof
SRS: Secondary Restraint System
SRS: Supplemental Restraint System (Air Bag)
SRT: System Readiness Test
SS: Speed Sensor
SSI: Solid State Ignition
STFT: Short Term Fuel Trim
STID: Station ID (OnStar)
SULEV: Super Ultra Low Emissions Vehicle
SUV: Sport Utility Vehicle
SWB: Short Wheel-Base
SWPS: Steering Wheel Position Sensor

T

TACH: Tachometer
TB: Throttle Body
TBI: Throttle Body Injection
TC: Turbocharged
TC: Twin Carburetor
TCC: Torque Converter Clutch
TCM: Transmission or Transaxle Control Module
TCS: Traction Control Solenoid
TCS: Traction Control System
TD: Turbo Diesel

TDC: Top Dead Center
TDI: Turbo Direct Injection (a Turbo Charged Direct Injected Diesel Engine)
TIM: Tire Inflation Monitor
TIV: Thermactor Idle Vacuum Valve
TKS: Throttle Kicker Solenoid
TPI: Tuned Port Injection
TPM: Tire Pressure Monitor
TPMS: Tire Pressure Monitoring System
TPP: Throttle Position Potentiometer
TPS: Throttle Position Sensor
TPT: Throttle Position Transducer
TRR: Tire Rolling Resistance
TS: Twin spark
TSP: Throttle Solenoid Positioner
TTM: Steering Column Tilt Module
TUR: Turbo
TV: Throttle Valve
TVS: Thermal Vacuum Switch
TWC: Three Way Catalyst
TWC+OC: Three Way + Oxidation Catalytic Converter

U

UART: Universal Asynchronous Receive and Transmit
UBEC: Underhood Bussed Electrical Center
UGDO: Universal Garage Door opener
UHF: Ultra High Frequency
ULEV: Ultra Low Emissions Vehicle

V

42V ISG: 42-Volt Integrated Starter-Generator System
V6: V Formation Six-Cylinder
V8: V Formation Eight-Cylinder
V: Volts
VAC: Vacuum
VAC: Volts Alternating Current
VAF: Volume Airflow
VAF: Vane Airflow Sensor
VCC: Viscous Converter Clutch
VCM: Vehicle Control Module
VCU: Vehicle Communication Unit
VDC: Volts Direct Current
VDC: Variable Displacement Compressor
VES: Variable Effort Steering
VF: Vacuum Fluorescent
VIN: Vehicle Identification Number
VIU: Vehicle Interface Unit
VR: Voltage Regulator
VS: Vehicle Sensor
VSS: Vehicle Speed Sensor
VVC: Variable Valve Control
VVT: Variable Valve Timing

W

4WD: Four Wheel Drive
WOT: Wide-Open Throttle
WSS: Wheel Speed Sensor

Z

ZEV: Zero Emission Vehicle

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LEGISLATIVE UPDATE

News from Washington

by Roy Littlefield IV

Since President Trump and House Democratic leaders announced that they would be working together on a \$2 trillion infrastructure package, WMDA/CAR being represented by SSDA-AT has been involved in several funding discussions and meetings in Washington.

Asked again recently whether Trump supports raising the gas tax, White House Advisor Kellyanne Conway said: "This president is the guy who lowers taxes." If there is no gas tax increase, other taxes on our industry will be considered. Even if the gas tax is raised significantly, it would still not be able to cover the desired amount of funding. Because the tax would need to be raised so much and because the tax is so visible to the public, are reasons why it has not been raised since 1993. SSDA-AT believes that an infrastructure bill is a jobs bill that cuts across party lines. SSDA-AT has opposed any proposed taxes in past infrastructure proposals that would be harmful to the industry.

In May, SSDA-AT attended a meeting at Hyundai Motor Company corporate headquarters in Washington, D.C. on infrastructure. With the convergence of telecom, energy and transportation, new technologies will be increasingly integrated into vehicles and connected roads. As Congress and the Administration become focused on addressing US infrastructure advancements in power, broadband, roads and runways, Hyundai believes that there will be opportunities to leverage projects across sectors.

At the event, SSDA-AT participated in a discussion with public and private sector leaders related to vehicle-to-everything communications, 5G for broadband, electrification and renewable energy infrastructure. At the event, we met with the Honorable Sam Graves (R-MO), Ranking Member, House Committee on Transportation and Infrastructure, the Honorable Rodney E. Slater, Former US Secretary of Transportation and Co-Chair, Transportation, Shipping & Logistics Industry Group, the Honorable Bill Shuster, Former Chair, House Committee on Transportation and Infrastructure, and David S. Kim, Vice President, Government Affairs, Hyundai Motor Company. Others included, Shailen Bhatt, President and CEO, ITS America, Dean R. Brenner, Senior Vice President, Spectrum Strategy & Technology Policy, Qualcomm, Mary Brown, Senior Director of Technology and Spectrum Policy, Cisco, Matteo Muratori, Ph.D., Engineer,

Integrated Transportation and Energy Systems, National Renewable Energy Laboratory (NREL), and Cordell Schachter, Chief Technology Officer, New York City Department of Transportation.

Also, in May, SSDA-AT commented on the Department of Labor's new proposed overtime rules: Defining and Delimiting the Exemptions for Executive, Administrative, Professional, Outside Sales and Computer Employees. SSDA-AT highlighted the impact that these proposed rules might have on America's small businesses and SSDA-AT members. SSDA-AT fully supports the DOL's goal of ensuring that all Americans receive a fair living wage in exchange for their work.

SSDA-AT still has concerns that certain aspects of the proposed rules could negatively impact small businesses. However, SSDA-AT does believe that the proposed rules are a significant improvement over the 2016 Final Rule in this area which was enjoined before going into effect and which would have seriously harmed many small businesses and stymied small business growth. In particular, SSDA-AT supports the Department's return to the 2004 methodology for setting the salary threshold for the white-collar exemptions and believes that the proposed threshold is reasonable and consistent with the intent of the Fair Labor Standards Act. SSDA-AT further applauds the Department's decision not to modify the duties tests for the white-collar exemptions.

We will continue to monitor this regulation as it progresses through the comment process.

As a final note, SSDA-AT took part in an Occupational Health and Safety Administration (OSHA) roundtable meeting hosted by Small Business Administration (SBA). At the meeting, we received an update about OSHA enforcement and current proposals and regulations being set forth by OSHA. SSDA-AT remains in strong communications with OSHA and SBA on tire related issues. These monthly meetings are valuable for the exchange of information between SSDA-AT and these governmental departments. ◆



EDITORIAL

Corporate Transparency Act

by Roy Littlefield

Legislation recently introduced in Congress (H.R. 2513, "The Corporate Transparency Act") to crack down on anonymous shell companies and allow law enforcement to "follow the money," has set off a storm of protest by associations representing small businesses.

SSDA-AT is reaching out to affiliates such as WMDA/CAR for your thought and recommendations.

BACKGROUND

Anonymous incorporation isn't difficult for criminals to do – no U.S. states currently require companies to provide identities of the company's true, beneficial owners. This makes it very easy for criminals and other bad actors to manipulate the system and launder or hide money via anonymous shell companies.

What This Bill Does:

- Requires corporations and limited liability companies disclose their true, beneficial owners to FinCEN at the time the company is formed.
- Establishes minimum beneficial ownership disclosure requirements: must provide beneficial owner's name, date of birth, current address, and driver's license or non-expired passport number.
- Requires companies to file annually with FinCEN a list of its current beneficial owners, as well as a list of any changes in beneficial ownership that occurred during the previous year.
- Provides civil and criminal penalties for persons who willfully submit false or fraudulent beneficial ownership information, or who knowingly fail to provide complete or updated beneficial ownership information.

Provides Much-Needed Transparency While Avoiding Excessive Burdens:

- Beneficial ownership information collected by Treasury or the states will only be available to: (1) law enforcement; and (2) financial institutions, with customer consent, for purposes of complying with their "Know Your Customer" requirements under Anti-Money Laundering law.



- It is narrowly tailored so as not to be overly burdensome to either businesses or the states themselves – the bill targets companies that are more likely to be shell companies.
- Many companies are already required to disclose their beneficial owners, such as Federally regulated banks, credit unions, investment advisers, broker-dealers, state-regulated insurance companies, churches, and charitable organizations. As such, these companies are exempt from the bill's requirements.
- Companies with over 20 employees and over \$5M in gross receipts or sales, and which have a physical presence in the U.S., are also exempt from the bill's requirements, because companies that employ this many people and that legitimate, business-related income are very unlikely to be anonymous shell companies that were created to hide or launder illicit funds.

Congresswoman Carolyn B. Maloney (D-NY), Congressman Peter King (R-NY), and Congressman Tom Malinowski (D-NJ) introduced H.R. 2513 to require companies to disclose their true, beneficial owners at the time the company is formed to prevent bad actors from using anonymous shell companies to thwart law enforcement and hide their illicit activities.

"It is absurd that the US allows criminals to launder their



money here. We're the only advanced country in the world that doesn't already require disclosure of beneficial ownership information and my Corporate Transparency Act will change that," said Congresswoman Maloney. "Anonymous shell companies have become the preferred vehicle for money launderers, criminal organizations, and terrorist groups and we're letting these bad actors get away with criminal actions even though law enforcement has asked us to fix this gaping hole in our criminal code. I'm proud to once again introduce this bill with my friend Rep. King, and with Rep. Malinowski, and am hopeful that we can pass it with bipartisan support."

"Criminals are taking advantage of state laws by establishing firms – often without a physical presence or business activity – to access our banking system," said Congressman King. "The Corporate Transparency Act targets this problem by requiring a company that has the characteristics of a shell corporation to disclose who benefits from the company's operations and makes that information available only to law enforcement. This simple requirement would enable law enforcement to stop money from flowing across our

borders to terrorist organizations."

In a letter to House of Representatives members, Juanita Duggan, President and CEO of NFIB expressed serious concern about the bill, noting that it would impose "burdensome, costly, and intrusive requirements" on legitimate small business owners.

Asserts Duggan, "the legislation requires corporations and limited liability companies that have fewer than 20 employees to file new reports with the Treasury Department's Financial Crimes Enforcement Network regarding beneficial owners of the corporation to company, including reports within 60 days of any change in beneficial ownership and annual reports on ownership. The legislation imposes its reporting mandates on those least equipped to handle them. Moreover, the legislation makes it a federal crime to fail to comply with the reporting regime, with civil penalties of up to \$10,000 and criminal penalties of up to 3 years in prison.

While large businesses and financial institutions may have access to teams of lawyers, accountants, and compliance experts to gather beneficial ownership information and report it to the government, small business owners do not. Small business owners cannot afford accounting and legal experts to help them understand and comply with the new federal reporting."

SSDA-AT appreciates the intent of the legislation. But would the bill as written create undue burdens on small business owners?

Should SSDA-AT weigh in on this issue? Please give us your thoughts. Thank you. ♦

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