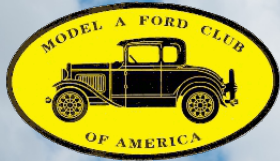


# SHADE TREE A'S



## NEWSLETTER



October 2023

Volume 50

Number 10



4424 Reynolds Street  
Hephzibah GA 30815-7909  
Website: <http://www.ShadeTreeAs.org>



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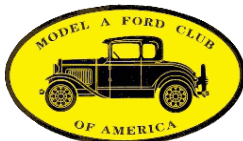
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### On the Front Cover

The Shade Tree A's enjoyed touring to Girard, Georgia to the Fish Eye Grill as part of the 50<sup>th</sup> Anniversary Tour. Nineteen Model A's made the trip. Story and more photos are on page 12. Cover photo by Robbie Jones.

## SHADE TREE A'S MODEL A CLUB



The Shade Tree A's Model A Club is a non-profit organization dedicated to the preservation and the restoration of the Model A Ford automobile. Shade Tree A's annual dues are only \$25. Members are urged to join the Model A Ford Club of America ([www.mafca.com](http://www.mafca.com)) and the Model A Restorer's Club ([www.model-a-ford.org](http://www.model-a-ford.org)) to enjoy the benefits of these national organizations including their respective magazines: *The Restorer* (MAFCA) and *Model A News* (MARC). The Shade Tree A's club is also a member of MAFFI, the Model "A" Ford Foundation, Inc.



#### CONTACT INFORMATION

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#### ABOUT THIS NEWSLETTER

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 Please contact Robbie Jones at [Newsletter@ShadeTreeAs.org](mailto:Newsletter@ShadeTreeAs.org) concerning reprinting of articles, illustrations, or photos.

## OFF THE RUNNING BOARD

*Craig McMullin - President*

The 50th Anniversary Commemorative Challenge Tour to Girard, GA on September 9<sup>th</sup> was a huge success with 20-1 (19) Model A's on the road to make the 80 mile round trip tour. Many of you traveled over 100 miles total depending on the distance from your residence. Although we were hoping for 20 cars, we had a few last minute cancellations all for good reasons but those that did participate seemed to have a great time. There were no "roadside technical seminars" along the tour route so the recovery trailer following the caravan remained unused and not necessary. But, we did have two minor issues in the Fish Eye Grill parking lot that were quickly resolved after lunch and we were back on the road for the trip home. Thank you all for making this 50<sup>th</sup> Anniversary Commemorative Challenge Tour a memorable event.

The Oliver Hardy Festival Parade on Saturday, October 7<sup>th</sup> is a long standing tradition in Harlem, GA. It is the birthplace of Oliver Hardy of the famous "Laurel and Hardy" comic movie and TV duo. This parade has typically been very well attended by hundreds of spectators. The Shade Tree A's have been specifically asked to attend with our Model A's since the cars, along with Model T's, are era correct during this popular filming. Please check your email for all the details concerning this upcoming community event. Don't forget your PASS to enter the parade line-up location.

Ahooga,

*Craig McMullin* - President

## MEETING MINUTES

*July 10, 2023*

*Richard's Garage*

*Respectfully submitted: Frank Knapp - Secretary*

The monthly meeting of The Shade Tree A's was held September 11, 2023 in the clubhouse meeting room at Richard Dunevent's garage. The meeting was called to order by President Craig McMullin at 7:00 PM welcoming all thirty-one members present. There were no visitors, however, two new members were recognized, Jeff Young and Paul and Christa Muckenfuss. Welcome new members! There were two contributors to our Name Tag Penalty Cup one of whom was our First Lady!

Matt Barrett offered our "Joke of the Month" and President Craig noted several September birthdays.

Prayers go out for Marsha Barrett who is recovering from ankle surgery and Janet Neumar continues to battle a chronic illness. Get well soon!

Vice President: Andrew Morse announced our technical program for the evening will be a pair of videos of recent STA events, our annual swap meet and tour to Girard, Ga.

Treasurer: Stuart Smith reported only two expenditures, \$185.00 to Jim McPherson for Swap Meet expenses and \$15.00 for bank fees. Total deposits for the month amounted to \$180.00. According to Stuart, it may be necessary to cash in one of our Certificates of Deposit when it matures in November.

A motion was made and seconded to approve the Treasurer's Report and the August Board of Director's Meeting Minutes as published in *The Newsletter*. That motion passed by unanimous vote.

### MONTHLY MEETING TIME & LOCATION

Meetings are held on the second Monday of each month at Richard Dunevent's garage, 4338 Owens Road, Evans, Georgia. Meetings begin at 7:00 PM and are followed by refreshments.

## MEETING MINUTES

*Continued*

National Director: Matt Barrett announced highlights of our recent tour to The Fish Eye Grill will be published in the November/December issue of *The Restorer*.

Newsletter Editor: Robbie Jones stated he has many pictures of the nineteen cars that participated in our recent tour to Girard, but also asked members to submit short articles about their experience for publication in *The Newsletter*.

Tour Director: No report was given.

Show & Tell: Stuart Smith brought along a spring spreader from the Model T era. Darren Riley displayed a beautifully restored 1930 Georgia tag with the lettering nicely done by a friend. Anyone needing lettering is welcome to contact Darren for more information (see sidebar). Dan Perla passed around our latest STA Membership Roster asking members to make any corrections before another update is completed.

Old Business: Discussion of past club events and tours included our recent Technical Session on Rebuilding Distributors, Dinner at Sconyer's Restaurant, The STA Swap Meet at Andy Morse's shop and our tour for lunch at The Fish Eye Grill.

New Business: The following topics of interest were discussed in detail. The 2024 Election of Officers, The Monroe Wade Award nominations and our upcoming tour to Hickory Knob State Park November 4<sup>th</sup>. Also mentioned were a proposed Saturday Tech Session October 21<sup>st</sup> and our Annual Christmas Party December 16<sup>th</sup>.

President Craig informed the group of a phone call he received from Catherine Stuckey, granddaughter of Sylvester Stuckey, Sr. who was the founder of Stuckey's Candies back in 1937. Apparently, Mr. Stuckey at one time owned a black Model A and Catherine asked if

any of our members would agree to escort her in the Laurel & Hardy Parade October 7<sup>th</sup> in a "Black" Model A. Of course, Darrell Henderson's excellent 1930 Tudor fit the bill! Thanks Darrell for volunteering your services. To return the favor, Catherine has invited our club to visit the Stuckey Candy Factory in Wrens, Georgia for a "sweet" tour everyone will certainly enjoy!

Technical Program: Andrew Morse has launched his new YouTube Channel and plans to produce videos featuring Model A repair, etc. Our group enjoyed viewing his first two videos (see sidebar). The first on our recent swap meet and another featuring all Model A's that participated in our tour to Girard. Well done, Thanks Andy!

There being no further business, the meeting was adjourned at 7:55 PM after which members were treated to various flavors of ice cream cones, homemade brownies, muffins and our usual soft drinks provided by Darrell and Syble Henderson, Kathy and Tom Poole and yours truly.

### The Rest of the Story

If you missed the meeting, here are links to Andrew's videos:

#### Shade Tree A's Swap Meet:

[https://www.youtube.com/watch?v=Tvf\\_bTT-keQ](https://www.youtube.com/watch?v=Tvf_bTT-keQ)

#### 50<sup>th</sup> Anniversary Tour to Girard, GA:

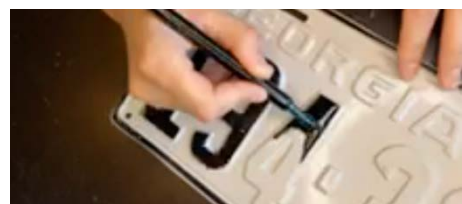
<https://www.youtube.com/watch?v=o2DviKHGONc>

#### License Plate Repainting

If you would like a license plate repainted, Darren's friend Lindsay can be contacted at the number below. Alternately, you can contact Darren and work through him.

Lindsay Durrant, 208-949-3961 (cell)

Lindsay is located in the area north of the Columbia/Hereford Farm Road intersection



## CLUB CALENDAR

### *Shade Tree A's Events*

#### October

- 9 Shade Tree A's Meeting, 7:00 PM, Richard's garage (Technical Program - *2023 MARC National Meet*, presented by Jim McPherson)
- 21 Shade Tree A's Saturday Technical Session

#### November

- 4 Shade Tree A's Lunch Tour to Hickory Knob State Park, details to come
- 13 Shade Tree A's Meeting, 7:00 PM, Richard's garage (Technical Program - *Upholstery in a Post LeBaron Bonney World*, presented by Robbie Jones)

#### December

- 16 Shade Tree A's Christmas Party, Jack Sheppard's Country Store, 539 Chamblin Road, Grovetown, Georgia
- 28 Board of Directors Meeting (tentative date)

#### January 2024

- 1 Shade Tree A's New Year's Day Breakfast, 8:00 AM, Cracker Barrel at I-20 and Belair Road
- 8 Shade Tree A's Meeting, 7:00 PM, Richard's garage (Technical Program - *TBA*)

#### Every Wednesday at 11:30

Join the Shade Tree A's for lunch at Cicis Pizza on Wheeler Road

***TBA - To Be Announced***

### *Other Events of Interest*

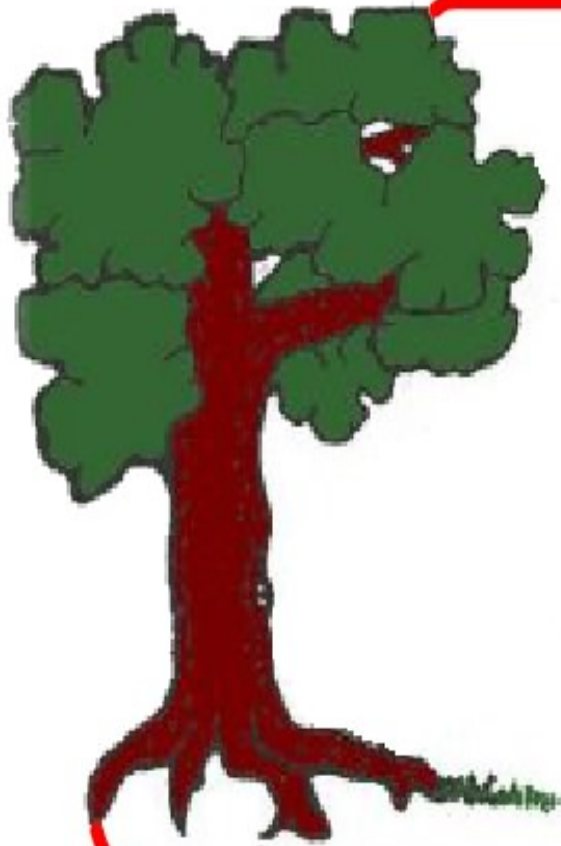
#### October

- 3-6 AACA Eastern Fall Meet, Hershey, PA
- 14 Warren Reynold's Annual Yard Sale, 8:00 AM Until, Rain or Shine, 120 Stoker Road, Greenwood SC, 864-980-7937 or 864-980-0708, swreynolds@centurylink.net
- 22-27 Revival AACA Glidden Tour, Thomasville, GA

#### November

- 3-5 Richland Creek Antique Fall Festival
- 11 Veterans Day Parade, Aiken, SC
- 16-19 Swap Meet, Moultrie, GA
- 18 Pioneer Days, Lincoln County Historical Park, Lincolnton, GA, 10:00 AM - 3:00 PM

# ANNOUNCEMENTS



## Shade Tree A's Member News

- Please continue to keep the following Shade Tree A's members in your thoughts and prayers:
  - Marsha Barrett recovering from recent ankle surgery, physical therapy soon
  - Janet Neumar battling lung cancer

Send items for Shade Tree A's Member News to:  
newsletter@ShadeTreeAs.org



## Refreshment Schedule

October

**Stuart Smith**, John Neumar, Brandon Carter

November

**Matt Barrett**, Steve Teal

December

No refreshments due to the Christmas party

**The first person listed is the primary coordinator for the month**



## October Birthdays

- 3 Shelby Deitz
- 5 Anne Neely Beck
- 6 Rita Spencer
- 7 Syble Henderson
- 8 Suzanne Gordon
- 8 Jim McPherson
- 14 Andrew Morse
- 17 Leta Jones
- 25 Sheila Wilson
- 29 Sandra Reis

## ANNOUNCEMENTS

### Oliver Hardy Festival Parade



The Shade Tree A's will be participating in the Oliver Hardy Festival Parade on October 7, 2023 in Harlem, Georgia. In addition to the parade, there will be craft and food vendors, entertainment, movie shorts in the theater and lots of other fun things to do for the day. Visit the Museum and see the Laurel and Hardy memorabilia displays as well as learn about the history of Harlem.

This is a Shade Tree A entry event, independent from Darrell Henderson and the Stucky's Corporation entry that was discussed at the September meeting.

- Parade lineup is no later than 8:30 AM at Harlem City Park (see map in the attachment to the email for the *Newsletter*). If you arrive after 9:00 AM you may not be allowed to participate.
- Enter Harlem City Park from South Hatcher Street only.
- Each car must have a pass (emailed along with the *Newsletter*).
- Throwing candy in parades is not encouraged by the Shade Tree A's because of the risk of an accident and club liability.
- If you are planning to participate, contact Craig McMullin at 803-341-8955 or email at [craigwm1974@gmail.com](mailto:craigwm1974@gmail.com)



Call Craig with any questions or for additional information. More information about the Oliver Hardy Festival and Parade can be found at the following website:

The 2017 Oliver Hardy Festival Queen, Miss Carter Scott, rode in Kent Carruthers's 1930 Model A Standard Roadster. Photo by Kent Carruthers.

<https://harlemga.org/bc-oliverhardysteering/page/oliver-hardy-festival>

ANNOUNCEMENTS

Shade Tree A's Christmas Party

December 16, 2023 at 6:00 PM

Join us for the Shade Tree A's Christmas Party. This year's party will once again be at Jack Sheppard's Country Store, 539 Chamblin Road, Grovetown, Georgia

If you've never been to Jack's, his place is a real treat and a great place for our Christmas Party.

Submit your payment to Dan Perla. PLEASE pay with either correct bills or preferably by check. The cost is \$25 per person. If you wait till the night of the party, you must pay with correct bills or check. Make checks out to the SHADE TREE A's.



Photo by Robbie Jones

ATTENTION

Shade Tree A's Election of Officers

It will soon be time to elect club officers for 2024. If you're interested in serving on the Board or as an officer, contact the Nominating Committee Chairman, Jim McPherson.

Shade Tree A's Member Dues

Shade Tree A's member dues for 2024 are due by the end of the year. Please see the club Secretary, Stuart Smith to make your payment. Checks or exact cash with your name attached are appreciated. Dues for 2024 are \$25.

ATTENTION



## ANNOUNCEMENTS

### 2023 Monroe Wade Award Nominations

It's that time of year for the members of the Shade Tree A's to make their nominations for the Monroe Wade Award. The Monroe Wade Award honors a current Shade Tree A's member who promotes and encourages the furtherance of the Model A hobby. The member can have accomplished this in any of the ways listed below:

- A club member who goes out of his or her way to help other members repair or maintain their Model A's.
- A club member who:
  - a. Writes an outstanding article for the Shade Tree A's Newsletter regarding repair and restoration, or who brings to light new information about the Model A.
  - b. Presents an outstanding program regarding repair and restoration or who provides new information about the Model A at a club meeting.
- A club member who shows dedication to the Model A hobby and to the club by:
  - a. Driving his or her Model A on a substantial number of club tours and events.
  - b. Driving his or her Model A great distances, demonstrating that the Model A is not only fun but a worthy means of transportation.
  - c. Is an outstanding representative of the Shade Tree A's at national meets and tours or local community events, thus serving as a Shade Tree A's club ambassador.

### Monroe Wade and the Shade Tree A's

New members might wonder who Monroe Wade was. Monroe was a man who loved Model A's and who loved the Shade Tree A's club! A man you could **ALWAYS** depend on to help a fellow member regardless of the time or weather. Monroe worked hard for the club and you could usually find him leading a tour or carrying in refreshments or door prizes that he had talked some local business into donating.

After restoring a 1930 Tudor that had belonged to his Mother, Monroe went on to restore a number of other A's. All of them were award-winning cars!

After his death in 2003, his wife Betty and his daughters, Deborah and Joyce, have continued to be active in the club and to drive Monroe's beloved cars.

Monroe was a great friend and we miss his enthusiasm and his ability to make a Model A purr like a contented kitten.

The annual award is our way of remembering Monroe and we are delighted to have Betty and the Wade family to be active in the club.



Nominations for the Monroe Wade Award may be submitted to a member of the Award committee: Gerald Melchiors, Don Turley or Andrew Morse. Please provide a brief explanation with your nomination explaining why you believe the person deserves the award.

## ANNOUNCEMENTS

### Model A Ford Foundation Inc. MAFFI Minute, October 2023



### MAFFI Model A Days, September 15-16, 2023

Model A Days (Sept 15 & 16, 2023) were a resounding success! The weather was perfect — 70 degrees — so all those open Model A cars that came to show themselves off for the theme this year had no trouble with the weather at the museum. In fact, the grounds were full of all types of Model A's driven onto the Gilmore grounds by hobbyists!



The “first start” Model A Coupe took just 43 minutes to start up after being abandoned more than 30 years and being in a flood up to the windshield. This year there were TWO first starts; the second was a truck (AA) and that only took a tad over 10 minutes to start up. There’s no shortage of cracker jack mechanics at Model A Days.

The Model A school bus and Stake Bed truck were kept busy carrying passengers around the 90-acre grounds and riders had great fun smiling and waving. For the second year in a row, the Model A Driving school graduated a new batch of Model A drivers, so we can keep those inner tube tires rolling! And there were lots of new Model A Ford Foundation Inc. red t-shirts and navy hoodies being worn by our loyal museum supporters. If you were there, you would know how much fun was had. If you didn’t make it, pencil in your calendar for next year, September 20 & 21, 2024!

Happy motoring,  
Mike DuBreuil  
MAFFI Board of Trustees  
Secretary  
[clubcontact@maffi.org](mailto:clubcontact@maffi.org)

## ANNOUNCEMENTS

# MAFCA ANNOUNCES 50 YEAR AWARD PROGRAM

Each year one of the privileges for the Chapter Coordinator for MAFCA is to recognize those chapters who have achieved certain milestones in their history for their years of continuous operation. This is done by awarding a certificate of achievement designating that milestone. These are then delivered to each chapter to display. We are proud to announce a new program to enhance this.

This year by unanimous vote the MAFCA Board of Directors and in an agreement with MAFFI and the Model "A" Ford Museum we approved to begin recognizing those chapters who have achieved the high honor of 50 years of continuous membership in the Model "A" Ford Club of America in a special way. For those chapters an inscribed brick will be placed on behalf of MAFCA at the Model "A" Museum by the Model "A" Ford Foundation or MAFFI. This permanent enshrinement of this accomplishment will be on display 365 days a year to celebrate this high honor.

We cannot however just begin this recognition in 2023. We must also look back to past award recipients as well as look at our current winners. To do so 94 bricks will be ordered this year that will include all prior 50 year Chapter Longevity Award winners. This begins with our first chapter, the Bakersfield, California Club, as well as including the 2023 and 2024 winners which will be placed in time for the 2024 Model "A" Days celebration. Each year after a brick will be placed in honor of those 50 year chapters reaching this milestone. Those recognized in this sidewalk of 50 year Chapter Longevity Winners is meant to demonstrate their special place in MAFCA's history and their significance in the success of MAFCA.



It is our hope that with this permanent recognition and placement of these bricks, those MAFCA members and others who visit the museum, will feel the same sense of pride and accomplishment in these recipient's as the Model A Ford Club of America does.

Will Langford  
2023 Chapter Coordinator

## RECENT EVENTS

### Twenty Minus One

#### The Shade Tree A's 50<sup>th</sup> Anniversary Tour

*Story by Matt Barrett*

*Photos by Robbie Jones except as noted*

"Twenty minus one" sounds about the same as nineteen to me, but is the impact different? I think it is. Our President, Craig McMullen, definitely delivered on a great tour to Girard, Georgia and the Fisheye Grill. On our previous tour to the Fisheye Grill we had six or seven participants that made the trek from KJ's on Peach Orchard Road to Girard and back home. So we more than doubled the number of cars this time 👍

Twenty-two Shade Tree members signed up for the Model A Day tour, (which included a badge commemorating the International Model A Day) and at the last minute some people's plans changed. So this is how we wound up with nineteen Model A cars. We had coupes, Tudor sedans, four door sedans, a Cabriolet, an open cab pickup, a few roadsters, two blind back four door sedans, and a Vicky. What a great group and to top it all off the food was SO delicious. If you missed this tour you missed a wonderful time!!

A video of this tour that was presented by Andrew Morse at our last STA meeting now resides on YouTube. What a great job Andrew, Kudos to you and Craig! By the way, we had no roadside technical sessions! This, as we all know, is our way of defining the word BREAKDOWNS!!!



#### No Roadside Technical Sessions, But ...

This may be some relief for any of you who may have experienced a hiccup with your Model A on the Shade Tree A's 50<sup>th</sup> Anniversary Tour to the Fish Eye Grill. I was the second person to arrive at KJ's Market. It was as no surprise Craig and Theresa were already there. What was a surprise was to find Craig's Model A off the trailer with the right front wheel removed. Craig was at the back of his trailer working on the wheel, replacing the hubcap. Unfortunately, we missed the photo opportunity, and Newsletter publicity of this historic event. So for those who may have had a hiccup with your Model A on this tour, you were not the first to experience a problem, and all Model A's made it home under their own power without incident.

- Jim McPherson

RECENT EVENTS

Shade Tree A's 50<sup>th</sup> Anniversary Tour

*Continued*



RECENT EVENTS

Shade Tree A's 50<sup>th</sup> Anniversary Tour

*Continued*



Photo by Kent Carruthers



RECENT EVENTS

Shade Tree A's 50<sup>th</sup> Anniversary Tour

Continued



Some of you may have met Randal Kerr taking photos of our cars at Fish Eye Grill. The photos Randal took can be seen on his website at: [www.RandalKerrPhotography.com](http://www.RandalKerrPhotography.com) or at the following link: <https://www.randalkerrphotography.com/gallery-2/ford-model-a>



# MODEL A ERA FASHION AND STYLE

The following article originally appeared on the MAFCA website in July 2013

## Pen and Pencil Sets

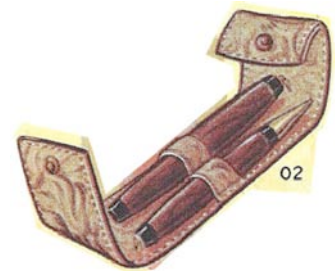
By Judy Lewis

As advertised in *Art Needlework*, Fall and Winter 1930-31, Catalog No. 37

Pen and pencil sets are great items to use as an accessory and are easy to find in most antique shops, flea markets, estate sales and the like. Most of the sets I have seen are in very good condition and can fit easily in a handbag or the inside pocket of a suit or sport coat. The following are quite typical of all 4 years of the model A era.

No. 1402: Ladies' non-breakable pen and pencil set. 14K gold fittings. Red or green with gold marbled effect. Leatherette case.

Per set, postpaid \$1.25



No. 1405: Combination pen and pencil. When not in use it is carried like a pencil. Pen has gold nib with iridium tip and gold trimmings. Triple action pencil. Guaranteed unbreakable. Mother-of Pearl and black.

Price, postpaid \$2.75



No. 1406: Jumbo size pen and pencil set with pocket clips. 14K gold trimmings. Pen has gold nib and iridium tip. Triple action pencil. Guaranteed for 5 years. Gold and black marbled effect.

Per set, postpaid \$2.95



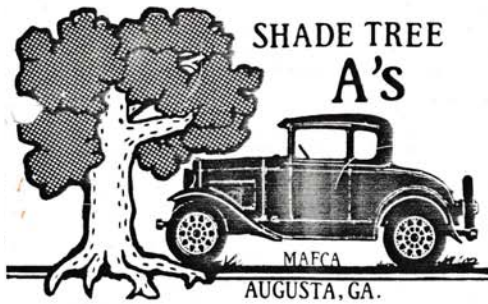
No. 1408: Ladies' pen and pencil set. Pearl and black; gold trimming. 14K gold nib and iridium tip on pen. Triple action pencil.

Per pair, postpaid \$2.75





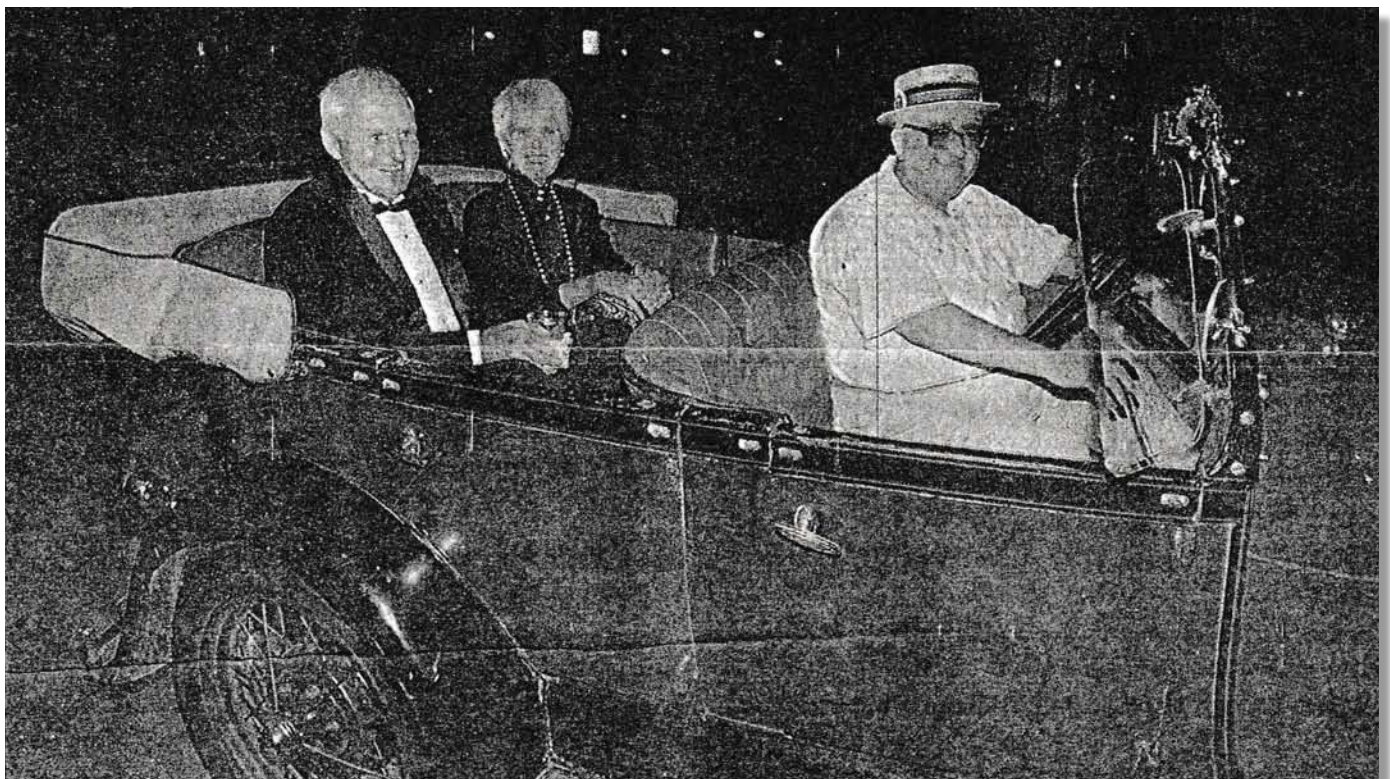
## THE SHADE TREE A'S – THIRTY YEARS AGO



The 1985-2005 *Shade Tree A's Newsletters* are now available on the Shade Tree A's website. They can be accessed via the same "button" as the other *Newsletters*, but they are password protected. The same password used to access the member roster is used to access the *Newsletters*. Thank you Dan Perla for scanning these and posting on the website.

The October 1993 issue of the *Shade Tree A's Newsletter* featured a photo of club member, Ed Meloan, driving Retired General John Tillson (former commander of Fort Gordon) and his wife Virginia to the Antiques Show at the Bell Auditorium. Other Shade Tree A'ers who participated in the event were Craig McMullin in his 1930 Fordor Sedan, Monroe Wade and his 1930 Coupe, Richard Dunevent and his 1930 Tudor, Ed Garvin with his 1931 Deluxe Coupe, Ruel Martin and Vicki in their 1930 Tudor, and Bob Jones in his 1931 Deluxe Coupe. The minutes of the September 1993 meeting recorded Jim Dover's first visit with the Shade Tree A's!

The President's column had some good advice that's just as applicable today as it was 30 years ago. A special tour and breakfast was announced for "Hershey widows". Jim McPherson's Authentically Speaking article identified the many reasons why an engine misses at high speed. The complete list is reprinted in this issue of the *Newsletter* in the Technical Topics section.



## TECHNICAL TOPICS

### Engine Misses at High Speed

*The following is from the October 1993 Shade Tree A's Newsletter and first appeared as "1,000 Engine Troubles" in a 1942 issue of Motor Magazine*

#### ENGINE MISSES AT HIGH SPEED

##### Due to Ignition

1. Loose or corroded connections or terminals at the ammeter, ignition switch, coil or distributor.
2. Slight short in primary circuit wiring.
3. Poor low tension ground connection.
4. Loose, corroded or burned ignition switch contacts.
5. Loose or corroded high tension terminals or cable sockets.
6. Cracked, oil soaked, wet, chafed or worn high tension cable insulation.
7. Broken wire inside of cable.
8. Stray cable strand shorting sparkplug.
9. Poor ground between distributor and engine.
10. Breaker point gap incorrect.
11. Breaker points not synchronized properly.
12. Breaker points dirty, cracked, pitted or burned.
13. Breaker arm spring weak.
15. Breaker arm insulating bushing worn.
16. Breaker arm rubbing block loose or badly worn.
17. Breaker arm plate loose or not properly grounded.
18. Loose breaker plate terminal posts.
19. Breaker plate pigtail leads loose or broken.
20. Breaker cam with low lobe.
21. Breaker cam loose due to burrs on cam locking screw taper.
22. Incorrect ignition timing.
23. Distributor cap cracked, wet or dirty.

24. Distributor cap inserts bent, loose or badly burned.
25. Bent or worn distributor shaft.
26. Distributor shaft bushing or bearing loose or worn.
27. Automatic spark advance plate loose.
28. Automatic advance governor springs weak or broken.
29. Automatic advance governor weight pins worn.
30. Weak condenser.
31. Defective coil.
32. Cracked, wet or dirty coil tower.
33. Defective spark plugs.
34. Spark plug gapped too wide.
35. Spark plugs operating too hot or too cold.
36. Spark plugs loose in cylinder head.
37. Fouled plugs due to damaged or ineffective gaskets.
38. Faulty radio suppressor.
39. Pre-ignition due to any source.
40. Weak battery in combination with an inoperative generator.

##### Due to Fuel System

1. Dirty air cleaner.
2. Restricted air passages in air cleaner silencer.
3. Oil level too high in oil bath type air cleaner, causing restriction.
4. Choke valve not fully open.
5. Punctured diaphragm in vacuum section of combinabon fuel pump, causing fouled spark plugs due to oil being drawn into cylinder.
6. Float level too low.
7. Throttle valves (dual carburetors)
8. Air leak around throttle shaft.

## TECHNICAL TOPICS

### ENGINE MISSES AT HIGH SPEED

Continued from previous page..

#### Fuel System Problems

9. Loose manifold connections.
10. Air leak in vacuum lines.
11. Loose manifold nuts.
12. Broken or damaged carburetor or intake manifold gaskets.
13. Cracked intake manifold.
14. Contacting surface of intake manifold being warped or damaged.
15. Slight leak at check valves in fuel pump.
16. Improper setting of economizer valve in carburetor.
17. Carburetor throttle lever loose on shaft.
18. Water in gasoline.
19. Clogged filter screens.

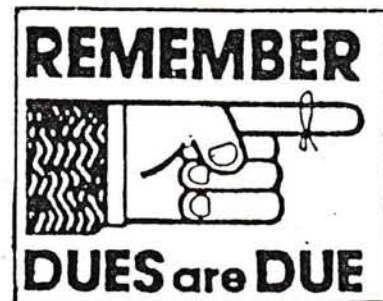
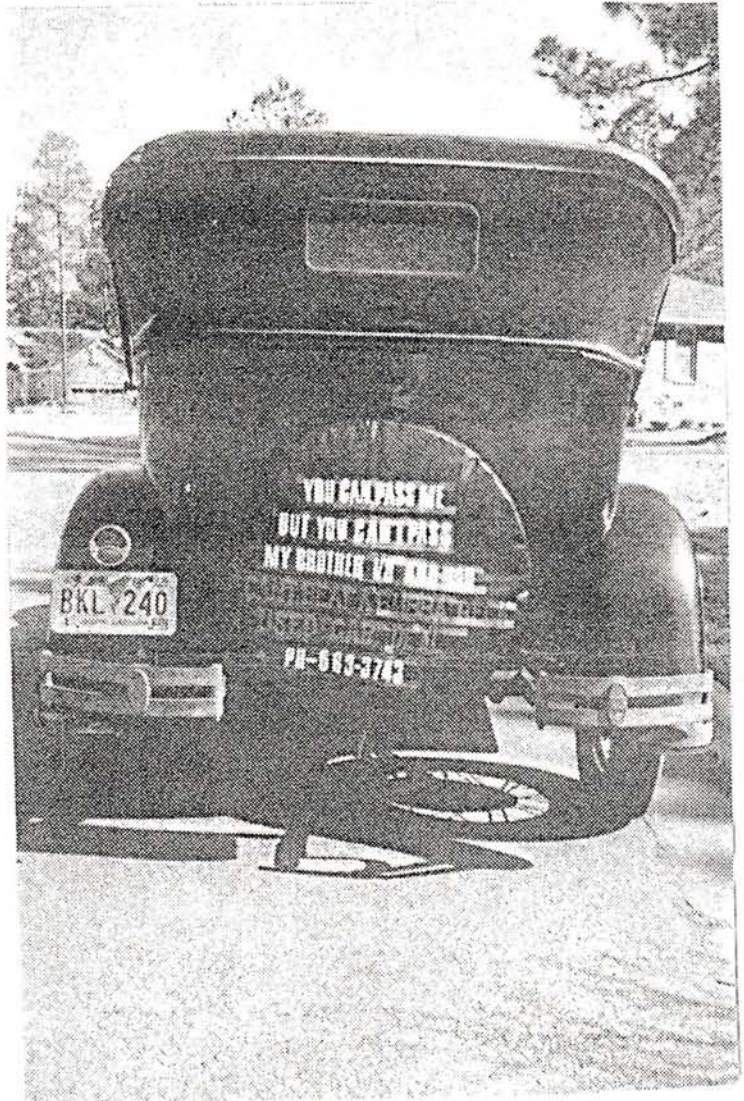
#### Due to Valve System

1. Warped valve face.
2. Valve leaks due to faulty seating.
3. Valve sticking
4. Valve Badly burned.
5. Cracked valve seat.
6. Valve spring weak or broken.
7. Bent valve stem.
8. Valve stem too tight in its guide.
9. No or too great tappet clearance.
10. Sticking rocker arm.
11. Broken mushroom on valve lifter.
12. Valve held open due to shoulder a valve face.
13. Valve held open due to carbon on valve seat.
14. Valve held open due to gum on valve stem.

#### Due to Other Conditions

1. Partially restricted or clogged muffler, exhaust pipe or tail pipe.
2. Engine overheated.
3. Unequal or lack of engine cylinder compression.
4. Manifold heat control valve held in

- closed position-
5. Cracked cylinder head.
  6. Broken cylinder head gasket.



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