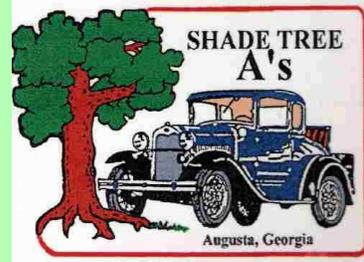


Shade Tree A's Newsletter

Volume 35, Number 4
Augusta, GA
April 2008

Celebrating our 35th Year!



Award-Winning
Newsletter

The joy is in the journey...





**The Shade Tree A's is a non-profit organization
with chapter affiliations with MAFCA and MARC**

The organization is dedicated to the preservation and the restoration of the Model A Ford automobile and supports membership in the national organizations dedicated to the same purpose.



Your Shade Tree A's membership includes annual dues (\$40) for the Model A Ford Club of America (MAFCA) and a subscription to **The Restorer** Magazine from MAFCA, 250 South Cypress St., LaHabra, CA 90631

Members are also urged to join the Model "A" Restorers Club (MARC). Dues are \$38 yearly and include a subscription to the **Model "A" News**. MARC, 6721 Merriman Road, Garden City, MI 48135

Shade Tree A's Officers:

President: Craig McMullin.....	803-637-3790
mcmullinc@bellsouth.net	
Vice President: Jim McPherson	706-592-4835
james.mcpherson@se.amedd.army.mil	
Secretary: Theresa McMullin	803-637-3790
mcmullinc@bellsouth.net	
Treasurer: Richard Dunevent	706-863-6758
fratic@msn.com	
National Director: Tom Roberts.....	803-649-0054
patroberts@wildblue.net	
Tour Director: Eric Shogren.....	803-649-6023
ericshogren@gforcecable.com	

Board of Directors:

Bill Adams.....	706-733-8364
gadams@aug.edu	
Curtis Krosting	706-556-9507
chief@jodalefarm.com	

Newsletter:

Editors: Pat & Tom Roberts.....	803-649-0054
patroberts@wildblue.net	
Photography: Sheila McPherson.....	706-592-4835
smcpherson@mindspring.com	

The Shady A Ladies:

BOD Liaison: Frankie Dunevent	706-863-6758
fratic@msn.com	
Era Fashions: Anne Neely-Beck	478-945-3736
anbjeb@mindspring.com	

Web Master: Dan Perla..... 706-855-5730
perlad@earthlink.net

Web Page Address: www.shadetreeas.org

Club Postal Address:

Shade Tree A's Model A Club
4424 Reynolds Street
Hephzibah, GA 30815-7909

Serving the CSRA (Central Savannah River Area)
In Georgia and South Carolina

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APRIL DINNER MEETING

Our April dinner meeting will be held on **Monday, April 14** at the Mann Memorial United Methodist Church, located at the corner of Milledgeville and Kissingbower Roads in Augusta. We will eat at 7 pm; cost is \$10 per person for this catered meal. A map is below if you'd like directions! See you there!





OFF THE RUNNING BOARD

Thoughts from the President...

For those that may not have had the time to attend one of our many successful Saturday "technical seminars" at Richard's, I'd like to take this opportunity to discuss what you have been missing. We started this new program of helping club members identify and repair car problems or assist them with restoration projects in April 2005. Some members meet early for breakfast but we get to work sharply at 9 AM and finish around noon followed by a free lunch (paid for by the club) in the garage.

There are many positive objectives of the program. First, it is to help as many members as possible get their cars "road-worthy" so that they may participate in club tours and other touring events. Second, it offers members an opportunity to learn how to trouble-shoot and repair their own Model A should they experience similar problems. Thirdly, it strengthens our camaraderie as a club and in addition provides a mechanism for some of our newer members to get to know people by getting involved.

During the month of March, the STA's held two technical seminars, the first mainly concentrated on the trouble-shooting and repair of several Model A's. The second and most recent centered on the installation of an upholstery kit. Both sessions were very hands-on, well attended, and successful in meeting program objectives. Of all the new programs the club has initiated, these Saturday technical sessions have continued to be the most gratifying for many.

First, the many recipients, who are getting their car back to either looking or running like a Model A, are very grateful. Second, those "ace" mechanics (we're fortunate to have many) get an opportunity to show-off their technical and mechanical wizardry.

If you haven't had the opportunity to attend one of these sessions, either as a recipient or mechanic extraordinaire, we plan to schedule a few more this year and I hope to see you there.

Have a safe trip,
Craig



March Membership Meeting Minutes

The March Monthly Meeting of the STAs was held March 10, 2008, at member Richard Dunevent's garage at 7:00 p.m. The meeting was called to order by President, Craig McMullin. The attendance sheet was passed around and showed 37 members present. There was one visitor, Jerry Allison, the program speaker. Illnesses included Don Turley, who is in the hospital for intestinal problems; Ralph Neitzke's wife, Tina, who was in the hospital and may still be there; Barbara Bryant, who is recovering from hospitalization; and Jim Dover's wife, Hilde, who recently had eye surgery. Please remember these club members and their families in your thoughts and prayers.

The Treasurer's Report was given by Treasurer, Richard Dunevent and the February Meeting Minutes as published in the March newsletter were approved.

For Show-n-Tell, President McMullin referred members to the gas tank disassembled in Richard's garage and encouraged everyone to examine the tank and baffles. President McMullin also informed members that there was an article and photo of member Anne Neely-Beck in the *Restorer* Magazine. He was pleased to see the club getting national attention through Anne's participation. Wedding Anniversary congratulations went out to Tom and Ruth Hitt as they celebrated 60 years, Pascal and Barbara Bryant for 56 years, and Jim and Hilde Dover for 58 years.

Under Old Business:

- The Sweetheart Pancake Breakfast was again a success and thanks went out to Jack & Carrie Horner for hosting the well attended activity and the cooks for being superb.
- The March 1st Technical Seminar was well attended and there was a lot of work accomplished. Another Tech Seminar is planned for March 15th and will focus on installation of upholstery in George Gordon's coupe. Also on March 1st, the club attended the Fort Gordon Theater. There were 22 attendees. The show and dinner were excellent.

Under New Business:

- A recommendation and justification for Houston Barbee's Honorary Membership was presented to the club members by Eric Shogren. The motion to accept Houston as an Honorary Member was made by Jim McPherson and seconded by Jim Miller. The membership then voted acceptance. Houston was presented with a club hat, club name pin, and a membership card.

(CONTINUED, page 4)

(CONTINUED)

- Glen Boswell brought in flyers to auto meets being held May 24-26 and July 4-6 near Ashville, TN. Those interested in attending, please see Glen for more details.
- Tour Director, Eric Shogren went over the upcoming schedule of club tours and activities. Please see articles in the newsletter.

With no further business, the program (Model T's for auction), presented by Jerry Allison, was introduced by President McMullin and the business meeting was adjourned.

Respectfully submitted,
Theresa McMullin, Secretary



March Board of Directors Minutes

The Shade Tree A's Board of Directors met March 3, 2008, at 7:00 p.m. at Richard Dunevent's garage. The meeting was called to order by President Craig McMullin. The meeting was attended by all board members with the exception of Richard Dunevent, Treasurer, who had another appointment, but arrived later.

The following items were discussed:

- Administration – A discussion was held regarding Honorary Membership for Houston Barbee. Eric Shogren agreed to present the board's recommendation and justification to the membership at the March Monthly Meeting.
- Communications – President McMullin proposed a review of the club's policies and procedures. Discussions were held regarding quorum determination and it was decided that the item would be tabled for the next board meeting.
- Monthly Activities – The remainder of the board meeting was spent completing the calendar of club activities for 2008. Eric Shogren, Tour Director, informed the board that the Augusta Mall Show had been scrapped for this year.

Tom Roberts reminded everyone that we need articles for the newsletter. He would like to have a backlog of articles, including technical articles that he can pull from when needed.

The next board meeting was scheduled for May 5th at Richard's garage.

The meeting was adjourned.

Respectfully submitted,
Theresa McMullin, Secretary

Ford Trivia



Colleen and Glen Williams, STA Model A friends from "Down Under" (Gawler, South Australia) share the following pictures of the 1903 Model A with us. Thanks!

Tom and I spent a beautiful April day in 2001 with Glen and Colleen. We visited their Gawler home, and Tom got to drive their 1928 4-door Phaeton (right-hand drive, of course) on the 'wrong side of the road!'
—pat



History of this 1903 Model A

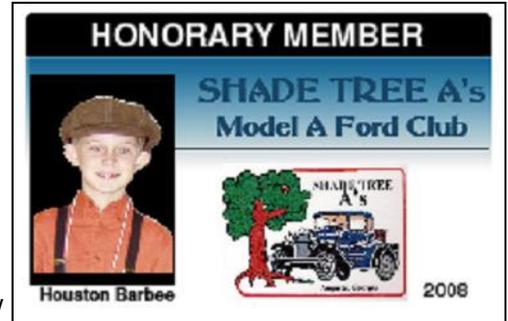
- 31st car built out of Henry Ford's original factory in Detroit in 1903.
- Model A was Henry Ford's first production car. All up, 1700 Model A's were built between 1903-1904.
- Of the 1700, the initial 625 cars were 8 horsepower and known as just "The Ford". The following 1075 were known as the "AC" and had a 10 horsepower motor.
- Delivered on 4th August 1903 to Mr F.E. Avery of Columbus, Ohio.
- The original purchase price was \$600 plus 'extras' such as headlights \$9.60, tonneau (extra two seats) for \$80.
- The car remained in Ohio for the next 86 years until 1989 when it was brought to Australia by Tasmanian Francis Ransley.
- Believed to be the oldest Ford car in Australia and possibly the world.
- Believed to be the most original Model A in the world – the engine, wooden-framed body and aluminium skin, glass-side curtains, even the muffler, are original 1903 production.
- Francis Ransley is an avid Ford collector with another 17 vintage Ford cars in his collection including a 1913 Model T.



CLUB ACTIVITIES

PRESENTATION OF HONORARY MEMBERSHIP TO HOUSTON BARBEE Monday, March 10, 2008

It has come to the attention of the Shade Tree A's Board of Directors that there is an individual who routinely excels in supporting Shade Tree A's events. This individual has participated in seven tours to Jacksonville, FL, attending all of the First Coast Region's Model A Round-Ups with the Shade Tree A's; has attended the Biltmore Christmas tour; the Clarksville Dam Tour and Sunday Lunch; participated in the 2003 Divisional Meet Era Fashion Show and the 2006 Augusta Mall Fashion Show and is known for attending both away and local events in period attire. As a matter of fact this individual is often the only individual representing the Shade Tree A's in period attire at these events. In Jacksonville, this individual is even requested by name to assist in awarding of door prizes. In addition to being a fixture at these events, this individual has even owned a 1929 Fordor—(that is until his Pa-pa sold it!) For those of you who are still wondering who this individual is; his name is Houston Barbee, grandson of Pascal and Barbara Bryant. Therefore, in light of his long time support of the Shade Tree A's the Board of Directors unanimously recommends the membership of the Shade Tree A's to recognize Houston Barbee as an Honorary Member of Shade Tree A's in accordance with requirements of Shade Tree A's Bylaws.



TECH SEMINAR 13!

Watching, sharing, learning—that's what Tech Seminars are all about! Tech Seminar 13 was held on March 1 —featured were Jim Dover's car and Eric Shogren's differential (see Eric's article, page 12)

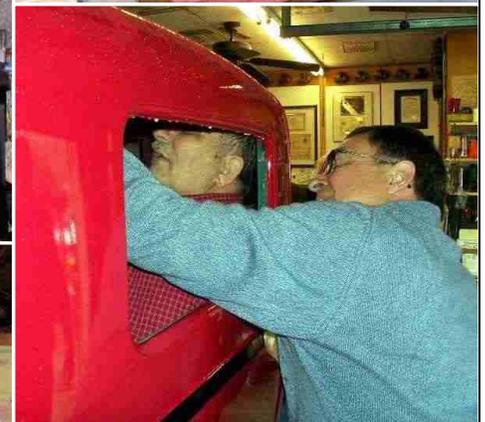




CLUB ACTIVITIES

TECH SEMINAR I 4!!

On Saturday March 15th six members met at the Sunrise Grill for breakfast before going to Richard Dunevent's garage to install an upholstery kit in George Gordon's early 1928 Tudor Sedan. We had several members who had never installed an upholstery kit, and several seasoned veterans to help. Under the watchful eyes and sure hands of Jim Miller, all six seat cushions were covered. Craig McMullin, Eric Shogren, Richard Dunevent, George and Michael Gordon, Larry Komp and Mike Chavis worked on the seats. Meanwhile, another group was installing the headliner, maybe one of the hardest jobs, at least from a physical standpoint. This group swapped out installers frequently due to the heat inside the car and the cramped working quarters. Curtis Krosting, Abbie Prince and Tony Gazette installed the headliner while our recovering injured (Tom Roberts) held the headliner and provided the proper lighting to work. All in all, it was a very good day. We even had two Model A's driven to the Tech Session, despite the threatening severe weather. Even a couple of the ladies were hard at work at this Tech Session, not installing the interior, but cutting out clown outfits for our skit at Roam Around Georgia Tour. We had our own filling station for lunch, make your own Dagwood sandwich, and as hard as this group worked, it was seconds for many of them. THANKS to Sheila McPherson for gathering the goodies and Theresa McMullin for her help.





CLUB ACTIVITIES



The Shade Tree A's were well represented in Augusta's St. Patrick's Day Parade on March 14. There were 10 Model A's and 1 Model T! Beautiful weather and enthusiastic spectators made this a memorable parade.

Pictures and copy from Christine Gordon





UPCOMING EVENTS

CHARLOTTE AUTOFAIR SPRING MEET Lowe's Motor Speedway Thursday-Sunday, April 3-6, 2008

Presented by the Hornets Nest Region, a unit of the Antique Automobile Club of America (AACA), this event is billed as 'the largest and greatest Collector Vehicle Event in the Southeast'. Gates will open at 8 am to the public **Thursday-Sunday April 3-6**. Admission is \$10 per person with children under 12 free with adults. Public parking is \$5 vehicle. Read much more information at www.charlotte-autofair.com/index.htm



BRENT TERRY RESTORATIONS April 11-13, 2008

Brent Terry owns a restoration shop in Johnson City, TN specializing in Model A Fords. Brent is going to hold another school **April 11-13**. Space is limited to about 100 people, so if you are interested you had better act fast. For more information, phone Abbie Prince at 803-279-5759; or email: prince77@comcast.net.

ALL MODEL A PARTS SWAP MEET Greenwood, SC Friday -Saturday, April 18-19, 2008

On **April 18 and 19** the Old 96 District Model A Club is having its annual Swap Meet, located ½ mile south of Greenwood SC on Rt 221 between Rts 25 and 225. Gates will open at 8:00 AM; admission is \$2 per adult. The Car Corral is \$10 for both days and Vendor spaces are \$25 pre-registration and \$30 at the gate. Lunch will be available. More information: contact Warren Reynolds at 864-388-0203; Ralph Roub at 864-992-3230.

Don't forget to send in those pictures of your children or grandchildren with your Model A! In May, we'll have a special section on our STA youth. Be sure to let me know the names and ages of the young folks in the picture, where they live and other items of interest! Deadline is **April 15**. Thanks!

Pat Roberts—Email: patroberts@wildblue.net

FIDDLERS AND FIDDLEHEADS 2008 HILL CLIMB AND FESTIVAL Unicoi, TN Friday-Saturday, April 25-26, 2008



Bring your Model A and join the fun at the Fiddlers & Fiddleheads Festival! Cars 25 years or older are welcome to participate and dash plaques will be awarded to the first 100 that arrive and register. The show is sponsored by the East Tennessee Model "A" Restorers Club; no contests or awards.

The hill climb will be **Friday, April 25**, with practice runs at 9:00 am and official runs at 1:00 pm. For more information contact Ken Miller at 423-638-4383 or email him at vickyman1@earthlink.net. All cars must pass a Safety Inspection before running the hill.

The Car Show and Festival on **Saturday, April 26** has no judging – there are usually over 50 Model A's. Also featured: music, blacksmithing, hit & miss engines, saltmaking, storytelling, great food, beautiful flowers and more! For more information, contact Mike McIntosh, Car Show Chairman at 423-743-5085.



THE 2008 MODEL A NATIONAL MEETS June 22-27, Addison, TX

The Shade Tree A's will have record attendance at the Model A National Conventions this year, and it is not too late for you to join us. For just the third time, both MAFCA and MARC are holding a joint national meet, this time in Dallas (Addison) Texas. If you have never attended a Model A national meet, you might consider this one, hosted by the Dallas Model A Club **June 22-27**.

There are many options for your travel to Addison Texas, located just North of Dallas, as several clubs in the Southeast are making plans to attend. You are welcome to join any of them. Several groups will drive their Model A's the entire distance (about 900 miles). One group will trailer their Model A's to the Birmingham, AL area, and drive from there (about 600 miles). Another group will trailer to the Shreveport, LA area, and drive from there (about 150 miles). The Charleston Club is looking into going by train, others will trailer the entire distance, and others will travel by more modern transportation. So you have many options to travel with STA Club members or our Model A friends.

So if this is your year to attend a national meet, time is fast approaching to make your plans. Many STA'ers have already registered, and made their hotel reservations. Registration forms and a description of events are published in *The Restorer* and *Model A News* magazines.

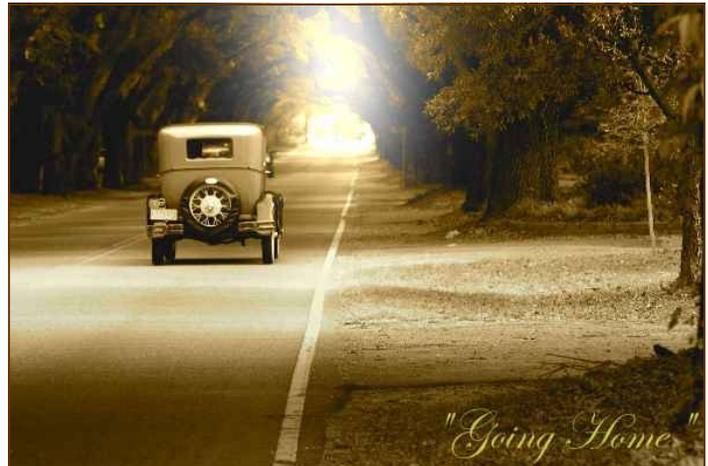


Under The Shade Tree

This new section of our newsletter will include the Concerns and Celebrations (that we know about) in our Shade Tree A "Family". **Please be sure to let us know if there's something we should include!**



- ☞ **Linda and Ken Nelson** celebrated their 49th wedding anniversary on February 6. Congratulations!
- ☞ There have been both concerns and celebrations (a recent 56th wedding anniversary!!) in **Barbara and Pascal Bryant's** household. Barbara was hospitalized for about a week but is doing much better now. Pascal also was having health concerns at press time and whether or not their cruise was 'on' was uncertain.
- ☞ **Sheila McPherson's** mom has returned home after a bout with pneumonia and subsequent hospitalization.
- ☞ **Ruth and Tom Hitt** recently celebrated their 60th wedding anniversary! Our sincere good wishes!
- ☞ **Hilde Dover** is recovering from eye surgery. We hope each and every day is better for you, Hilde. **Hilde and Jim** recently celebrated their 58th Anniversary!
- ☞ Our thoughts are with **George and Christine Gordon**. George's brother in PA passed away on St. Patrick's Day.
- ☞ Our "Oz" friends (see page 4) lost their 44-year old daughter to cancer in early March. We extend our sympathies to you, **Colleen and Glen Williams**.
- ☞ **Don Turley** is feeling better after surgery in early March. He welcomes visitors at home—607 Fox Hunt Lane, Evans. Please call before visiting.
- ☞ **Tony and Carole Gazette** have another email address (this is different from the one given in March) - it is tcgazette2@jeffersonenergy.com
- ☞ Watch for member **Anne Neely-Beck's** fashion articles in both *The Restorer* (MAFCA) and the *Model A News (MARC)* You go, girl! Anne is pictured on lionsgatemodelclub.com homepage.
- ☞ Both **Roberts** guys—**Tom and Ted**—have triumphed over recent health concerns.
- ☞ We're holding **Tina Neitzke** in our thoughts and prayers.
- ☞ **Houston Barbee**, grandson of **Pascal and Barbara Bryant**, became an honorary member of the STAs at its March meeting. Way to go, Houston!
- ☞ Do **YOU** know what the STA's first logo looked like? reading your newsletter—you'll find out in June.



The Ready Tudor + live oaks on Aiken's South Boundary = "Going Home"

A tribute to Wayne Ready who passed away April 2007, the photograph is shared by its creator and Wayne's son, Barry, who's also a member of the STAs.

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562/697-2712 • 562/697-2737

February 11, 2008

Dear Shade Tree A's,

Enclosed is the MAFCA 35 Year Longevity Award. This award represents our appreciation for your Chapter's long-term efforts in support of our great hobby.

The members of your chapter have continued the very important tradition of maintaining the history and heritage of the Model A Ford.

We look forward to many more years of your continued participation and contribution to perpetuating this noble pastime.

I congratulate your entire chapter on achieving this milestone.

Sincerely,

Arlyn Bieber
2008 MAFCA Chapter Coordinator

We're
35!

On the Shady Side

....Anne Neely-Beck

I am just back from Seattle and the MAFCA Era Fashion Committee meeting. Everyone is excited about Dallas and the MAFCA/MARC World Meet in June. Model A Era Image was the HOT topic. At this time there are 58 fashions entrants, but the number entering Model A Era Fashion Image is unknown. Yours truly is in charge of a "suitcase" display at the meet. There will be a combination of original, reproduction, and fun fashions in the suitcase along with a neat brochure and bookmark that I designed. This is to encourage clubs to get interested in era fashions. I have to thank all the STA's and the Shady A Ladies for being such an inspiration to me with their goal back in 2001 to have all members dressed in era looking fashions for the Abbeville tour. All this led to me putting our club's cookbook together and my desire to join the EFC.

LeMAY CAR MUSEUM

Tacoma, WA

While in Seattle for my EFC meeting March 8, 2008, James and I were lucky enough to tour the Le May car museum. This car museum is a must see if you ever go to the Seattle/Tacoma area for a visit. It is rated in the top 10 of car museums in the United States by several car magazines. The museum contains over 3,000 vehicles and 30,000 pieces of



related Americana. The cars are displayed in an old school that was once run by nuns. Mr. Le May bought the building as it was starting to fall into disrepair because of a dwindling enrollment in the private school. There are cars of all ages, models, and manufacturers. The collections of Tuckers is impressive. There was a Ford N model car, along with Model T's and A's. If you can name it, the car is there!! Trucks, fire trucks, tractors, motor cycles, funny cars, and anything with a motor are also



STA Sale Corner



1930 Fordor Sedan (shown on the STA March 2008 newsletter cover, lower left corner). The motor has been rebuilt two years ago and has approximately 300 miles on it. The car is in great shape and is ready to enjoy with spring just around the corner. It has turned a lot of heads in the Aiken SC area!! I am asking \$15,000 firm.

Contact Rex Foster 803-643-8921 or 803-215-4600
inspector_rfoster@yahoo.com

included. The last Saturday of every August, the museum opens its door for a public display. The rest of the time, you must make an appointment to see the collection. This year a new museum is to be constructed in downtown Tacoma next to the Tacoma Dome and about 1000 cars will be on display at any given time. Mr. Le May is



now deceased but his family still owns the garbage business he started and still controls the displays at the museum. There is certainly a lot of money in the "trash" business. On the Web, go to www.lemaymuseum.org for more information.



VINTAGE VISIONS

...Theresa McMullin

After looking over the club activities schedule for 2008, I discovered that there will be several opportunities to “dress for the occasion” in era fashions (or look-alikes). “Dressing-up” really brings a different type of fun to the activity. With that in mind, I thought it would be a good time to refresh everyone’s memory on the fashions of the era.

Now, everyone has his/her own ideas and opinions about era fashions; and there are a lot of “look-alikes” available on the rack today. But, I really believe what “ties” the look together are the accessories, especially headgear. The headgear may be so unusual that it’s the **real** eye-catcher. With that said, you will find that it’s very easy to find “look-alike” headgear right off the rack today. I bought several hats last year at Belk and happened on a real “find” recently at, of all places, Cracker Barrel. So follow the arrows below for a walk through **Headgear History!**

The following is from Pauline Weston Thomas of Fashion-Era.com:

The cloche hat was not confined to the 1920s as is often first thought.

It was fashionable from 1908 to 1933 and was one of the most extreme forms of millinery ever, with an appearance that resembled a helmet. It was the iconic hat of the twenties decade and will ever be associated with the flappers of the era. To wear one correctly the hat had to be all but pulled over the eyes, making the wearer have to lift up the head, whilst peering snootily down the nose.



Cloche hats had a basic bell contour with bulbous crowns which, if correctly designed, could add inches to the height of the wearer. This helped to foster the haughty look which we associate with this headgear.



A blouse of Violet Georgette, with beadwork from the National Cloak and Suit Company Catalog for 1920, with a wide brim hat.

As soon as the great Stock Market Crash of 1929 hit the US economy, fashion took a more conservative turn. Women’s hemlines dipped back down to mid calf length for day wear, and full length for evening wear. Waistlines moved back to the waist and adult female curves again became fashionable. “White tie” full dress with a tailcoat popped back into men’s evening fashion. It is as if the world felt that the Great Depression was a judgment on the fast times and youth culture of the 1920’s, and it prepared to grow up and do penance in the 1930’s.



HATS of the 1930s

1930	1930	1930

1930’s millinery followed the mood of the day with curving styles (often with romantic trims) or witty hats that contrasted with the immaculately-groomed look. Many 30’s hats were worn tilted to one side. As brims became flatter and wider, crowns lowered and by 1933 there was the hat style that was almost like a pancake panama.

The wide brim and the high crown had been lost to almost a generation, however, in about 1934 milliners looked to Europe for inspiration. Hats in a much wider variety of styles than had been seen for well over a decade were at last back in fashion.





Rebuilding a Differential

....Pre-loading the Bearings

...Eric Shogren

There are several reasons to get into a rebuild of a differential. Damage to the pinion and ring gear, installing a high speed rear-end or simply replacing the axle seals. In this article I want to focus on one aspect that is common to all of these activities and that is pre-loading the bearings.

Well, there is one thing to be said—once you have completed the rebuild of a differential you won't have any question about how to disassemble and reassemble a Model A rear-end! When I first read the section in Les Andrew's Model A Mechanics Handbook I took with a grain of salt the line about patience being required, but it's a very true statement. The reason for this is there are four vital bearings that must be under the proper pressure. If they are too loose, they vibrate and bounce around and eventually fail. I found out about that with my '28 Special Coupe last fall when one of the pinion bearings (on the drive shaft just as it enters the differential housing or banjo) failed and chucked a roller into the pinion and ring gear, destroying both! The other extreme is if you have too much pressure on the bearing it will be hard to turn the shaft. This puts strain on the engine and will also lead to bearing failure. The process for ensuring the right pressure on the bearings is called "pre-loading" the bearings.

The four bearings are the two axle bearings and the two bearings on the drive shaft. All four are identical cone bearings. There is an axle bearing on either side of the differential. They ride on a race in the axle housing. The first step in pre-loading the axle bearings is to attached the right axle housing to the banjo. Just remember to keep the banjo drain hole on the bottom and you can tell right and left easily from there. You do not install any banjo gaskets at this time. Once the right axle housing is bolted and torqued to 35 ft-lbs, install the rear axle and differential making sure the ring gear is on the left hand side. If you install it on the right side instead of having three forward gears and a reverse, you will have three reverse gears and one forward gear. Then install the left axle housing also without gaskets. Once you bolted and torqued the left housing to 35 ft-lbs the ring gear should not turn. This is to ensure that the that the axle races are the correct dimension. If you can turn the ring gear at this point, you will need to remove the races and install shims under them. This can be cut from light weight flashing.

So now that the ring gear does not turn it's time to install banjo gaskets. The goal is to be able to turn the ring gear, but it should be very snug. It can't free wheel and it should take some effort to turn the ring gear, but not a lot. Banjo gaskets right now come in two thicknesses. One is 0.010" and the other is 0.006". We found when you put a caliper on these they were actually measure out to be 0.008" and 0.004", respectively. Here is where the repetition begins. Because to get the right "snugness" on the ring gear you need take off the axle housings each time you try another gasket combination. Also, at this point you are putting the same number of gaskets on each side. The Model A Mechanic's Handbook indicates you will probably get the desired results around 0.010" to 0.015" of gaskets on each side. But I installed a new high speed rear end on Dotti's '31 and would up with closer to 0.030". But unless you get lucky and hit it on the first try expect to tear down and reassemble the rear axle about 10 to 20 times.

Once you have the correct preload on the axle bearings you pre-load the pinion bearings. These bearings fit nose to nose just forward of the pinion gear. They ride on a special double cone race. Oh, to do this you will have to disassemble the rear axle because the pinion gear will not pass through the hole on the front of the banjo. You have to pass it through the side of the banjo with only the first bearing installed. Once you have it in place install the second bearing by sliding it down over the drive shaft. These bearings fit tightly onto the neck of the pinion bearing. Heating them even on a light bulb helps. You may have to drive them on, but avoid striking the bearing directly. We held the flat of the pinion wrench over the bearing as we drove it on. The best way is to press them on, but that takes a press that can accommodate the entire drive shaft. Once both bearing are on you install the thrust washer and the first pinion nut. This is approximately an inch and a half nut that is relatively thin. It can be tightened with a very large set of channel locks, or special pinion wrenches are available for \$15 to \$20 each and there are two nuts, so you'll need two wrenches. So, with one person leaning on set of channel locks to hold the front of the drive shaft, tighten the first nut good and tight. You both will have to work at it. Next slide on the lock washer and the second pinion nut. Once tightened you should have about 20 in-lbs. Now that's in-lbs, not ft-lbs. None of the common torque wrenches read that small. So there are two ways to do it. Once is to buy or borrow a 0 to 60 in-lb torque wrench or find an old pro who has done this a bunch and knows how it feels. I did both. To use the torque wrench a 1 and 1/16" six sided socket fits nicely over the front of the drive shaft. So at this point you will have to tighten and possibly loosen the two pinion nuts to get the right drag.

Now you've got your bearings pre-loaded. But your assembly and disassembly of the rear end is not complete. The next step is getting the back-lash between the pinion and ring gear, but that's for another article. . .

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SHADE TREE A'S CALENDARS



APRIL

14 **STA Dinner Meeting**, Mann Memorial Methodist Church, 7 pm (see page 2)

MAY

3 Fuel Economy Run
 5 **Board of Directors Meeting**
 12 **STA Meeting**
 16-18 Social Security Run (Roam around Georgia)

JUNE

7 35th Anniversary Pool Party, McMullins
 9 **STA Meeting**
 21 **Trenton Peach Festival**

JULY

4 Gilbert Peach Festival and Parade
 14 **STA Meeting**
 21 **Board of Directors Meeting**

AUGUST

7 **STA Dinner Meeting**, Sconyer's (note change in day)

SEPTEMBER

5-6 Hill Climb, Morgantown, NC
 8 **STA Meeting**
 15 **Board of Directors Meeting**
 20 Washington, GA Tour

OCTOBER

4 Oliver Hardy Parade, Harlem, GA
 13 **STA Meeting**
 18 **Steak Cookout**
 24-26 **Richmond Hill Tour, GA**

NOVEMBER

1 Ridgeland Creek Farm Days, Saluda, SC
 3 **Board of Directors Meeting**
 10 **STA Meeting**
 29 Gibson, GA Parade

DECEMBER

9 **STA Lights Tour**
 16 **STA Christmas Party—Old McDonald's**

A **RED** entry denotes a change or an addition to the calendar.

OTHER EVENTS OF INTEREST

(Non-club events but members are encouraged to participate)

April

3-6 Charlotte AutoFair Spring Meet
 11-13 Brent Terry Restorations
 18-19 Old 96 Swap Meet, Greenwood, SC
 25-26 Hill Climb/Bluegrass Festival, Unicoi, TN

June

22-27 MAFCA/MARC World Meet, Addison, TX

July

5 Maggie Valley, NC Swap Meet

September

4-7 Charlotte AutoFair Fall Meet, NC
 16-17 Columbia Swap Meet, Columbia, SC
 18-20 AACA National Meet, Cleveland, TN

October

8-11 Hershey Swap Meet, Hershey, PA

November

21-22 Swap Meet, Moultrie, GA

REFRESHMENTS

Highlighted name coordinates what the group brings

April

Dinner Meeting



May

Dinkins, Prince, Melchiors, Wilson

June

Gordon G, Gordon D, Krosting, Markwaller

APRIL BIRTHDAYS



2 —Carole Gazette
 7—Carl Tankersley
 10—Theresa McMullin
 11—Dawn Komp
 14—Ann Dinkins
 16—William Maypole
 21—Tom Kohli