# **Resource Handbook**



# Model A Ford Club of America Beaver Chapter

Version 2.4.1 - 18 July 2019

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# Forward

Nothing in this handbook is earth shattering, or for that matter even new. This is merely a compilation of useful Model A resources intended to help new club members. Whether you are new to the hobby, or new to the area, you will likely find something here that is worthwhile. MAFCA and the Beaver Chapter are important hobby resources. For day-to-day problems you will find that the chapter membership is hard to beat for experience, knowledge, and its willingness to help. Ask questions, and please ask for help if you need it – you will not be disappointed.

As you may have already discovered, the Model A requires more preventive maintenance than our modern vehicles. This handbook has sections covering parts, supplies, reference material, technical articles, support vendors, and maintenance tips. The internet has expanded the scope of options available to most owners. This medium includes supply sources, discussion groups, online articles, and online videos. Some of these online sources are terrific, some not so much. Village wisdom, and facts, seem to comingle, sometimes making it difficult to tell truth from fiction.

If you are new to the hobby you will find that the <u>Model A Instruction</u> <u>Book</u> is a good source of general information. This book was produced by Ford and provided with the car when it was new. It contains some useful tips on starting, driving, and maintaining the Model A. This booklet can be downloaded in .PDF form at the Palm Beach A's (see page 40) website. If the Model A is new to you, a driving lesson is a good way to get started. Knowing what to do with both hands, and both feet, is an old skill not acquired with the operation of modern cars. Our primary goal is that you have a safe and reliable driving experience.

Driving a Model A Ford just seems to put a smile on your face. It has a similar effect on those who see it go down the road. When parked, they attract folks who had one, or knew someone who had one. *"It was just like this one, except it was a different color, body style, and it was a Chevrolet."* 

Welcome to the Beaver Chapter

# Model A Ford Club of America (MAFCA)

The Model A Ford Club of America, Inc. (MAFCA) is a California notfor-profit corporation and a national historical society dedicated to the restoration and preservation of the Model A Ford. MAFCA was founded in 1956 and now has chapters throughout the United States, Canada, with chapters in Australia, New Zealand, The Netherlands, Denmark, Norway, Germany, Sweden and Puerto Rico. Model A's can be found all over the world.

MAFCA is also involved in Youth Scholarships for members and their children or grandchildren. Check out the website under "Youth" for more information.

MAFCA supports the Regional and National Meets sponsored by the local chapters, where vehicle judging, fashion judging, how-to seminars, tours of local interest, afternoon teas and award banquets are all part of the fun. There is nothing like seeing hundreds of Model A's of every style on display all in one place. Not to mention the adventure of driving to the meet location.

Just for fun, check the MAFCA website on a daily basis to see the "Model A of the Day" and vehicles for sale.

MAFCA has a special interest group for era fashions for men, women and children. Dressing in era clothing of 1928 – 1931 adds to the experience of riding in a Model A.

MAFCA publishes *The Restorer* magazine and maintains a comprehensive well-designed, useful website. The MAFCA website can be found at: <u>http://www.mafca.com</u>

# **Beaver Chapter Introduction**

Welcome to the Beaver Chapter of the Model A Ford Club of America (MAFCA). The club, organized over 50 years ago, offers a little something for everyone. The Beaver Chapter was founded as a car club. Over the years it has morphed into a social club with cars. Most new members join because of they own, inherited, or are just interested in the Model A Ford. People stay in the club because of the social events, friendships, and tour activities. Whatever your reason for joining, there is likely something here to match your interest.

Club meetings are held monthly on the 3rd Wednesday of the month. Meetings are a great time to get your Modal A out for a drive.

#### There are many reasons to attend monthly club meetings.

- Socialize
- Conduct club business
- Take part in the membership drawing, name tag drawing, and a club sponsored raffle. Cash prizes are awarded in the drawings and the raffle coordinator provides an interesting assortment of items for the raffle.
- Learn from the technical seminars that are held after many of the club meetings. These seminars are maintenance and operation centric. Each seminar focuses on a single system or mechanical component. During the technical seminars the ladies often gather separately to learn about Model A fashions or just socialize.

#### Social activities are a core component of club membership.

- Beaver Babes is a women's social group engaged in several noncar activities throughout the year. We encourage all ladies to join us so they can get to know each other and have some fun.
- There is an annual Christmas potluck on the first Friday of December.
- The annual awards banquet (dinner dance) is held in early January where awards and special recognition are given. Dinner for members participating in swap meet duty is paid for by the club.

• Era fashions is another aspect of the Model A hobby. When the guys have a technical seminar after the club meeting the ladies will sometimes gather to learn about fashions or just chat.

# Club Model A tours - for many of us club tours are the highlight of membership.

- Tour rules can be found on the club website and in the club roster.
- Day tours are generally held monthly on the Saturday after the club meeting. These tours are planned and led by volunteer members. They are well run, go to interesting places, and provide an opportunity to spend some time with friends who have a similar interest. The tours focus on driving your Model A, but modern cars are welcome. Please come out and join us for an enjoyable afternoon.
- The Past President's Tour is held annually and is usually a 3-day event.
- Regional and national meets provide an opportunity to interact with other clubs. They include car and era fashion seminars, judging events, car tours, and a banquet.

# Swap meets can be a good source of parts. They come in several sizes and are held locally throughout the year.

- The Beaver Chapter is one of the sponsors of the Portland Swap Meet held in April at the Portland Expo Center. This Swap Meet is the largest auto parts swap meet on the west coast. **All members are expected to volunteer for swap meet duty.**
- A mini-swap meet is held at our August meeting.
- Several local swap meets are held throughout the year.

Work parties are held throughout the year. Where seminars are informational, work parties are "hands on" allowing each member to assemble, disassemble, and troubleshoot the featured component.

# **Typical Beaver Chapter Meeting**

There is a lot jammed into the typical monthly meeting. It all might seem a bit confusing - committee reports, drawings, red tickets, blue tickets, multiple subjects circulating on clip boards. Overlay all this with old friends getting caught up on each other's lives and it becomes a lively time. Let's see if we can provide some context. The meeting actually has a pretty basic agenda.

Where - Clackamas Community Center 15711 SE 90th Ave Clackamas, OR 97015

6:00 PM – Board Meeting starts in the small room next door

Every club member is welcome to attend board meetings. It is a good place to understand the "why" we do what we do. It is also a good place to initiate change.

6:00 PM – Set-up begins in the main meeting room.

This involves setting up chairs, tables, coffee, flag, sound system, and refreshments.

7:00 PM – Social time with refreshments.

This is the time set aside to visit and enjoy the company of fellow members. This is a good time to get your red tire tickets, and blue name tag ticket. Every time a member, or their Model A, attend a Beaver Chapter event they receive a red tire ticket. A Tire Ticket drawing is held each January with three winners - \$600, \$100, and \$50.

7:30 PM – The meeting comes to order.

<u>Pledge of Allegiance</u> <u>Approve minutes from last meeting</u> <u>Welcome new members, guests, or visitors</u> <u>Name tag drawing</u> – members are encouraged to wear a name tag helping other members learn their name. Everyone wearing a name tag receives a blue ticket - \$25 is awarded to the winner of the drawing.

<u>Gots and wants</u> – This is a clipboard that is circulated allowing members to list desired items, and allowing others to list free or for sale items.

<u>Upcoming Events</u> – Car tours, pot luck, banquet, Beaver Babe events, swap meet status, and workshops to name a few.

<u>Reports</u> – Treasurer, Vice President, Past President, Membership, Editor, Sgt-at-arms, Beaver Babes, Sunshine, Swap Meet Status, and Historian. This is pretty much a catch all and generally covers a good bit of ground. This section is sometimes short, and sometimes not so short.

<u>Membership drawing</u> – Every member has a number. Each month a number is drawn and the winner, if in attendance, wins \$25. This drawing is progressive so a non-winner month raises the pot by \$25. It pays to attend meetings.

<u>Old business</u> – if any

<u>Raffle</u> – There is usually time set aside to purchase raffle tickets followed by the raffle.

Adjourn meeting

<u>Seminar</u> – These are generally subjects dealing with the car. If the car is reason you joined the club this will be the bright spot of the meeting. Seminars are not scheduled every month, but are interesting, informative, and sometime entertaining.

9:00 PM Clean-up – Pretty much the opposite of set-up, plus sweep the floor.

So, in summary, several drawing, several announcements, several circulating clipboards, a raffle, mystery part, tour schedule updates, and a lot of friends enjoying each other's company. Did we mention that you are encouraged to drive your Model A to the meeting? It is worth an extra red tire ticket.

# **Beaver Chapter Resources**

The club exists because of the efforts of its members. All club jobs, tasks, and services are performed by volunteers. Not all of us have the time, or skills, required to perform every function, but all of us have something that we can contribute. As the wise person once said "If everyone does a little, no one will be required to do a lot." "I'm too busy" is something we hear a lot. There are several club jobs that are time intensive – most are not. If you really want to be part of the club, find something that matches your skills, and available time. You will find that the reward is greater than the effort.

## **Beaver Chapter Website**

The club maintains an open website hosted on Shutterfly. The site is a simple, effective method to convey club related information to members. The site administrator will add you to the member list if you have an email address. You will then receive email notices as items are added, or changed, on the website. The website address is <u>www.beaverchapter.com</u>. The website has seven pages:

- Home past Ahoooga Newsletters, member resources, technical articles, sale items, upcoming events, and board members
- Pictures club tours, and banquets
- Calendar club events
- Message board member comments
- Technical Articles Articles and seminars of local interest
- Fashions Articles and pictures
- For Sale Cars and parts for sale

## **Beaver Chapter Membership Directory**

This directory is published annually by the membership chair. It is a terrific source of information. It includes the current member roster, club by laws, club policies, and touring rules. Yearly dues must be paid by January 1 in order to have your name included in the chapter directory.

## Ahoooga News

The club editor publishes the "Ahoooga News" monthly newsletter. It is well presented and is a very good source for club activities and future events. The primary delivery method is via email. Current and past newsletters are also available for download via the club website. You do not want to miss these, so please ensure that the editor has your current email address. A black and white version is available by snail mail for those who are without a computer.

## **Era Fashions**

Are you interested in vintage fashions? The Beaver Chapter serves as a medium of information about Model A era (1928-1931) fashions. MAFCA uses three fashion judging categories; Original, Reproduction and Model A Era Image. Members are encouraged to dress in era clothing when attending club functions. This certainly isn't mandatory, but it adds to the nostalgia of the car and it's just plain fun! Even just wearing an era looking hat, makes the occupants look the part in a vintage car. The Beaver Chapter has several Fashion Judges in the club who are willing to help you learn about era fashions.

MAFCA sets forth the standard for Model A fashion judging for those who are interested in either entering the fashion judging at a meet or of becoming a judge of fashions. MAFCA has published the *MAFCA Fashion Guidelines, A Book of Fashion Facts,* and for those who might be interested in sewing, a pattern catalog is also available, *Model A Era Fashion Pattern Catalog.* These are available for sale on MAFCA's website. The fashions are an additional interest in the Model A hobby.

## **Sunshine Coordinator**

The Sunshine coordinator monitors the health and welfare of club members. Club member illnesses and injuries are shared with the membership and a card or flowers are sent with wishes for a speedy recovery.

## **Raffle Coordinator**

The raffle coordinator searches for and provides interesting things for the club raffle. There is usually a mix of car related items, a gift certificate for Model A parts, seasonal items (plants, holiday chocolates, etc.) The raffle coordinator tries to have a mixture of items that will appeal to more people.

## **Club Historian**

The Historian has *The Restorer* magazines going back to the 1960's. If you have need of a particular article, find it using the index provided by *The Restorer* and we can find it for you. The Historian is also responsible for the Beaver Chapter's scrapbooks which also go back to the 1960's. Every newsletter since we started is in our collection. We have other miscellaneous items that have been collected over the years including badges, awards, pins, etc. - all having to do with the Model A Ford.

## DVD Videos

These are helpful how-to videos available for check out from the club Sergeant-at-Arms. The Diablo A's have produced 22 technical seminar DVDs. These can be purchased individually or as a set through their website at <u>http://www.diabloas.com/dasvideos.html</u>

From Diablo A's unless mentioned otherwise

D-1 Grinding Brake Shoes – How to use the "Brake Doktor" & other topics

D-2 How to replace your Model A Brake Drums

- D-3 Rebuilding the Model A Distributor Gordon Fischer
- D-4 Rebuilding & Timing the Model A Distributor (not too good)
- D-5 How to set your Model A Engine Bearing Clearances

D-6 The milestone Model A – Twenty Millionth by Ford Motor Company

- D-7 Installing the Roof on your Model A Ford Pickup
- D-8 Rebuilding Model A Shock Absorbers
- D-9 Rebuilding Model A 2-Tooth Steering
- D-10 How to replace your timing gear while you are on the road
- D-11 Rebuilding the Model A Transmission
- D-12 Jewelry of the Model A Era 1928-31
- D-13 The Hat Museum in S.E. Portland
- D-14 Mounting a Tire & Changing a Tube
- D-15 Installing an Overdrive
- D-16 Rebuilding your Water Pump
- D-17 Putting the Spring Back
- D-18 Annual Tour Preparation
- D-19 Installing Brake Floaters
- D-20 Carburetors & Carbohydrates 46 minutes
- D-21 Installing Flathead Ted Brake Floater Kit on Your Model A

You Tube (<u>www.youtube.com</u>) hosts a large number of videos related to operating and maintaining the Model A. As with all things related to the internet, some items are more correct/truthful/helpful than others. With that disclaimer in mind, there is a lot of good information available on You Tube.

## Mentor Program

New members can be divided into two categories. The first group is a friend, neighbor, or co-worker of a current member. In this case the current member assists with questions, introductions, and integration of the new member. The second group turns up to their first meeting and is largely left to their own devices to figure out what the club is about and how to become a part of the events and activities.

This process has been in place for a long time and has worked for many people. It has also failed for many folks. The result is that many new members fail to get their needs and expectations met and drop out after a few meetings, not realizing that there is much more to the club than the monthly meeting. The Mentor Program is our attempt to do better.

The mentor program has two parts. The first part is intended to help new members during the first months of membership. This process will evolve over time but initially starts with an introduction at the first club meeting.

- A mentor team member should introduce themselves during the break to welcome the new member and to explain the mentor process.
- A phone follow-up should occur a few days later to schedule a meeting and to answer any questions or concerns. The first meeting is a good time to learn about the material condition of their car, interests, goals, and involvement desires/limitations. This resource handbook can be used as an outline for the interview.
- The results of the first meeting will vary, as will the desired follow up interaction. The needs of a long time Model A owner are much different than someone new to the hobby. The mentor's job is to find out the goals and interests of new members, connect them to resources, and to assist as required.

The second part of the mentor program is to serve as a point of contact for car problems and repair. While the mentors are not intended to be

on call maintenance, they are a good resource to assist with developing, and executing a plan to fix a problem, or get a car back on the road. Mentors are organized into two teams, one for the west side, and one for the east side. If you are having trouble give one of them a call.

There are no guarantees, but an involved membership results in a better experience for everyone.

## **Mentor Team Members**

As a general rule, club members are very good about responding to requests for help. Several members have volunteered to offer help or answer questions. Please call upon them for assistance.

Mentor Group					
Name	Phone Number	Location			
Tom Irwin	503.538.5227	Newberg			
Stan Symank	503.476.4946	Newberg			
Bruce Barnett	503.538.7066	Newberg			
David Adair	503.655.3189	Oregon City			
Mike Worthington	503.788.5965	Happy Valley			
Bill Jabs	971.235.3804	Eagle Creek			

Additio	nal Volunteer Mair	ntenance Suppor	t
Name	Phone Number	Location	Specialty
Ray Horton	503.333.5766	Portland	General
Tom Godish	503.282.2212	St. Helens	General
Lynn Humble	503.349.2023	Happy Valley	General
Jim Van Lente	503.638.5243	Wilsonville	General
Greg Edwards	503.357.3980	Gaston	Steering

## **Beaver Chapter Tool Trailer**

Most Model A maintenance can be performed using common hand tools. Some tasks require special tools not always found in club member workshops. The club has purchased several of these specialty tools. Club tools are stored in a trailer controlled by Ted Downs and are available for checkout. Current tool listing can also be found on the Beaver Chapter website. Contact Ted Downs for tool availability and check out information.

> Cherry picker (i.e. 2-ton engine hoist) Hinge pin puller Engine stand Model A Ford service manual 2 ton axle stands 3 ton axle stands 6 ton axle stands Rear axle seal driver Gas gauge steel puller Rear spring spreader Front spring spreader Front alignment tool Steering wheel puller Clutch tool Pinion puller Pinion nut wrench Engine head puller Ratchet nut wrench Carburetor flow tester Piston ring compressor Distributor shaft indicator Rear hub puller – K.R. Wilson type Rear brake centering tool Brake Rivet Tool **Torque Wrench** King Pin Reamer

# **Local Parts Suppliers**

Local suppliers provide a ready source of commonly required parts. Less common parts can be ordered and picked up locally. Local prices include shipping so they may differ from online national suppliers. All of the listed suppliers are Beaver Chapter members. They are listed alphabetically as a show of neutrality. Surprisingly, NAPA also carries many parts for the Model A.

Local suppliers will only exist as long as we give them our support.

## Becker's T & A Ford Parts

Gene Scott P.O. Box 374 Eagle Creek, OR 97022 - 0374 Phone: 503-367-9676 Email: <u>BeckersAutoparts@Yahoo.com</u>

## **Gas Tank Neck Extension**

Andrew Jackman P.O. Box 1052 Boring, OR 97009 Phone: 503-658-6270 Email: <u>ajackman@frontier.com</u>

## **Model A Ford Works**

Tom Godish 2810 N. Ainsworth Street Portland, OR 97217 Phone: 503-282-2212

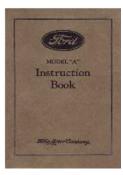
## **Rusty Lugs**

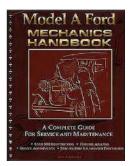
Amanda Uthe 8021 NE 142<sup>nd</sup> Avenue Vancouver, WA 98682 Phone: 360-887-3346 Email: <u>rustylugparts@gmail.com</u> Website: <u>www.RustyLugParts.com</u>

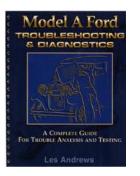
# **Print Reference Materials**

## **Primary Model A Maintenance Books**

These are common books found in personal libraries of Model A owners. Each book is easy to read, and contains exploded illustrations with step-by-step procedures. Many can be obtained locally, and all can be ordered online. These images and captions were taken from the MAFCA website.







**Model A Instruction Books** (owner's manual) were included with each car when new.

\*\* Owners, engine, and chassis manuals can be downloaded from the Palm Beach A's (see page 40 for link) website.

#### Model A Ford Mechanics Handbook Vol I

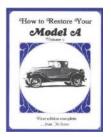
By Les Andrews. This book was designed for the novice and master mechanic. It offers simple step-by-step disassembly instructions for the repair of virtually every major Model A component. There is also а complete lubrication quide. and safety inspection checklist.

# Model A Ford Troubleshooting & Diagnostics

By Les Andrews. Designed to give the driver an upper hand in quickly locating the cause of a failure and provides how to instructions in clear, non-technical language.

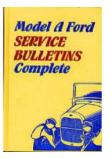
## **Advanced Model A Maintenance Books**

The books on this page provide more in-depth information. They generally are aimed at repair, rather than preventive maintenance. These images and captions were taken from the MAFCA website.



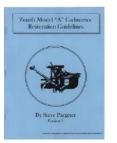
**How to Restore Your Model A**, Volumes 1 - 9 Published by MAFCA. These are reprints of restoration articles from *The Restorer* magazine.

\*\* These are great books, but poorly indexed. A complete index is available for download on the MAFCA website.



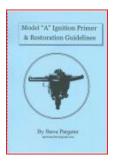
#### Model A Ford Service Bulletins Complete

When the Model A was new, Ford sent monthly service bulletins to their dealers' mechanical staff to inform them on service routines, changes in parts, service tips, etc. In 1957, Dan Post published a soft back version this was followed by a hardback version 1972.



#### Zenith Carburetor Restoration Guide

By Steve Pargeter. This 40 page guide provides a detailed history of the Zenith carburetor. It also contains rebuilding instructions, flow testing jets, setting fuel levels, and troubleshooting problem carburetors.



#### Model A Ignition Primer & Restoration Guide

By Steve Pargeter. Meant to provide the reader with an understanding of how the Model A ignition system works, how to troubleshoot problems, and how to repair the equipment.

# **Online Parts Suppliers**

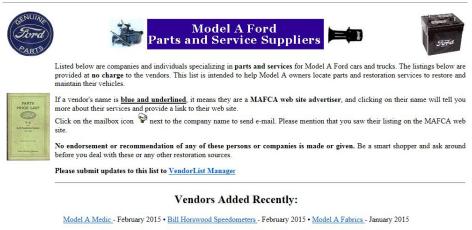
## **MAFCA Website**

Phone Email

Contains a comprehensive list of Model A parts and service suppliers. The website can be found at: <u>www.mafca.com</u>. The supplier page is found under "References" in the left column.



Suppliers are alphabetized, and are accessed by clicking on the letters



 $\underline{\mathbf{A}} \bullet \underline{\mathbf{B}} \bullet \underline{\mathbf{C}} \bullet \underline{\mathbf{D}} \bullet \underline{\mathbf{E}} \bullet \underline{\mathbf{F}} \bullet \underline{\mathbf{G}} \bullet \underline{\mathbf{H}} \bullet \underline{\mathbf{I}} \bullet \underline{\mathbf{J}} \bullet \underline{\mathbf{K}} \bullet \underline{\mathbf{L}} \bullet \underline{\mathbf{M}} \bullet \underline{\mathbf{N}} \bullet \underline{\mathbf{O}} \bullet \underline{\mathbf{P}} \bullet \underline{\mathbf{Q}} \bullet \underline{\mathbf{R}} \bullet \underline{\mathbf{S}} \bullet \underline{\mathbf{T}} \bullet \underline{\mathbf{U}} \bullet \underline{\mathbf{V}} \bullet \underline{\mathbf{W}} \bullet \underline{\mathbf{X}} \bullet \underline{\mathbf{Y}} \bullet \underline{\mathbf{Z}}$ 

- A -	Address	Phone	Service or Specialty	Updated
A&L Parts Specialties	196 Main St. New Hartford CT 06057	860-693-0112	Quality Reproduction Parts	01/07/13
"A" Springs	Box 330322 West Hardford CT 06133-0322	860-233-3557	NEW Model A front and rear leaf springs	02/27/06

## **Selected Online Parts Sources**

Venders listed in this section are used by many members and are not meant to be a Beaver Chapter endorsement. Online vendors offer parts, manuals, and catalogs. Many catalogs contain surprisingly detailed drawing and illustrated parts breakdowns. Most suppliers use Ford licensed parts numbers making price and availability comparison easier. Online suppliers quote the sale price and generally compute actual shipping cost after an online order is completed. This means that the exact cost might not be known until you see the bill.

### **General Parts Suppliers**

A&L Parts Specialties PO Box 301 Canton CT 06019-0301 186 Main Street, Rear Bldg New Hartford CT 06057 860-693-0112 Email: <u>anlel@aol.com</u>

Bert's Model A Center 3560 Chestnut Place Denver, CO 80216 800-321-1931 Email: <u>parts@modelastore.com</u> Website: <u>www.modelastore.com</u>

Bratton's Antique Auto Parts 1606 Back Acre Circle Mount Airy, MD 21771 800-255-1929 Website: <u>www.brattons.com</u> Hagen's Auto Parts 1526 River Road Puyallup WA 98371 253-845-7020 Website: <u>http://hagensautoparts.com</u>

MAC's Auto Parts 6150 Donner Road Lockport, NY 14094 877-220-8230 Website: <u>www.Macs.AutoParts.com</u>

Mike's A Fordable Parts 124 Model A Drive Maysville, GA 30558 706-652-3866 Email: <u>Kelly@mikes-afordable.com</u> Website: <u>www.mikes-afordable.com</u>

Smith and Jones Antique Auto Parts 60 Wisconsin Street West Columbia, SC 29170 800-422-1928 Email: <u>smithjones@spiritcom.net</u> Website: <u>http://www.snjparts.com/contactform</u>

Snyder's Antique Auto Parts 12925 Woodworth Road New Springfield, OH 44443 888-262-5715 Email: <u>don@snydersantiqueauto.com</u> Website: <u>www.snydersantiqueauto.com</u>

### **Tires and Wheels**

Coker Tires - Freight charges for tires can be expensive. Coker tires will deliver tires to the Portland Swap Meet without shipping charges. 1317 Chestnut Street Chattanooga, TN 37402 800-251-6336 Website: <u>www.cokertire.com</u>

# Local Repair Service Providers

This section lists local vendors and businesses by category. The list should be viewed as a start point, better than the yellow pages or a web search, but maybe not right for your needs.

Disclaimer: These businesses were recommended by club members. The Beaver Chapter makes no claims as to the quality of work and the club has no liability for services performed.

### Alternators, Generators & Starters

Many members have replaced their tried and true generator with an alternator. Single wire alternators are easy to install and offer variable charging rates and over charge protection. If you choose this option ensure that the alternator drive pulley is in line with the water pump and crank pulleys during installation. Also ensure that the drive pulley is sized correctly for the 5/8" fan belt.

PMX Custom Alternators and Starters – 6/12 volt, positive or negative ground Owner: Bill Jungck 8420 SE Hinckley Happy Valley, OR 97086 Phone: 503-777-7172

## **Battery & Electrical Supplies**

ABE Auto Battery & Electric - anything electric

13273 SE Hwy 212 (other locations) Clackamas, OR 97015 Email: autobatteryandelectric.net Phone: 503-657-0888

#### Northwest Battery Supply

3750 SE Belmont St. Portland. OR 97214 Phone: 503-232-9002

## Chrome

#### **Cruisin Classics**

2655 Salem Dallas Hwy. NW Salem, OR 97304 Phone: 503-378-7883

#### American Plating, Inc.

Don Meth, 524 N. Gold St. Centralia, WA 98531 Phone: 360-736-0052

# Differential

**Clay's Diffentials –** closed on Fridays Boring, OR Phone: 503-667-574541-389-2694

## **Engine Rebuild / Machining**

There are a lot of choices here. Some are full service engine rebuilders and some offer part task services. Also included in this section are businesses providing balancing, boring, decking, brake relining, brake drum swedging, and pressure plate rebuilding.

Frank Schurman – Short block or compete engine rebuild 21400 SW Eagle Point Rd. McMinnville, OR 97128 Phone: 503-472-3200

**Bill Barlow** – Babbitt only 20378 Pinevista Dr. Bend, OR 97702 Phone: 541-389-2694

#### Portland Engine Rebuilders – Total engine rebuild, balancing,

counter weighting 1001 SE Hawthorne Blvd. Portland, OR 97214 Phone: 503-230-1276

#### **Bearing Service** – Compete machine shop with Model A experience. 1040 NW Everett St. Portland, OR 97209 Phone: 503-222-1366

Automotive Friction – Flywheel and pressure plate resurface and rebuild. Re-shoe and arc brakes 20521 Highway 212 Damascus, OR 97089 Phone: 503-855-3670

Clackamas Machine Shop – Vintage auto parts, swedge and turn cast iron drums 1009 Main St. Oregon City, OR 97045 Phone: 503-656-4244

#### Fleet Pride (Formerly Ott's) - Re-shoe and arc brakes

2026 Northeast Columbia Blvd. Portland, OR 97211 Phone: 971-202-5432

12350 SW 124th Ave. Sherwood, OR Phone: 503-612-0010

#### Baxter Auto Parts Machine Shop - Surface head and block

9444 N, Whitaker Rd. Delta Park Portland, OR 97217 Phone 503-285-2548

# Red Line Cams & Cranks - Regrind Cranks and Cams

2000 Broadway St. Albany OR 97321 Phone: 503-559-3215

#### Oregon Cam Grinding, Inc.

5913 NE 127th Ave. #200 Vancouver, WA 98682 Phone: 360-256-7985

#### **Sandy Machine**

36600 SE Hauglum Rd. Sandy, OR. 97055 Phone: 503-668-9614

#### Davison NAPA – Machine work

1717 N. Baker St McMinnville, OR 97128 Phone: 503-472-6114

#### **Paolo Engine Service**

14189 Fir Oregon City Phone 503-659-9536

## **Gas Tank Repair**

Mac's Radiator - Multiple locations throughout Oregon 6147 SE Foster Rd. Portland, OR 97206 Phone: 503- 777-4706

## **General Repair**

Model A Ford Works – Complete mechanical service Tom Godish 2810 N. Ainsworth St. Portland, OR 97217 Phone: 503-282-2212

Lynn Sondenaa – Brakes, front end, transmission, welding, body work, trouble shooting. 20212 SE Ridgecrest Dr. Sandy, OR 97055 Phone: 503-781-9741

## **Glass Supplies and Service**

Local service providers will not have the rubber required for install. The proper windshield rubber glass bedding or door glass setting rubber must be obtained from a Model A Supplier.

**Sanders Reproduction Glass** – Owned by Peninsula Glass **Peninsula Glass Company –** Supplies Snyder's, Mac's and Mike's

6005 NE 121st Ave. Vancouver, WA. 98682 Phone: 360-882-4884 Phone: 360-892-2029

Bob's Classic Auto Glass 29898 E. Enid Eugene, OR 97402

Phone: 1-800-624-2130

The Glass Worker

8525 SE 62nd Portland, Or. 97206 Phone: 503-299-4955

#### Old Car Glass Guy

24011 S. Skylane Rd. Canby, OR 97013 Phone: 503-519-3443

#### **Hampton Auto Glass**

600 NE 78<sup>th</sup> St. Vancouver, WA 98665 Phone: 360-574-6879

#### Auto Glass Past and Present - Does house calls

Kevin Batey, Owner 1111 N.E. 95th St. Suite B Vancouver, WA 98665 Phone: 503 781 5710 Email: <u>modelaguy@msn.com</u>

A Better Glass Shop 17075 SE 82<sup>nd</sup> Dr. Clackamas, OR 97015 Phone: 503-656-2261

#### King's Auto Glass

Pedro, Owner 833 SE Main St. Portland, OR 97214 Phone: 503-232-3200

#### **Horn Repair**

Jake Taasevigen 220 SW 7th Ave. Canby, OR. 97013 Phone: 503-266-9509

## Metal Cleaning (Dipping Process)

#### American Metal Cleaning

9940 N. Vancouver Way Portland, OR 97217 Phone: 503-283-1046

## **Model A Tools**

**Bill Henderson** - If you are going to show your car or just want a set of tools for your car. Information as well as tools for sale 17194 Stanhelma Dr. Gladstone, OR 97027 Phone: 503-657-1890 Email: <u>bar\_bill@msn.com</u>

David Adair – Tool documentation and information 895 Hazelwood Dr. Oregon City, OR 97045 Phone: 503-655-3189 Email: <u>dc31a@live.com</u>

## **Paint Supplies**

Industrial Finishes (Multiple Locations in Oregon) 5341 SE McLoughlin Blvd Portland, OR 97202 Phone: 503- 234-9795

## **Pin Striping**

Dave Bradley Phone: 503-594-3051 (CCC Voice mail)

Paul Comeau 5112 B NE 119<sup>th</sup> St. Vancouver, WA 98686 Phone: 360-573-2216

Allen Budden - works from home always busy call for appointment Home: 503 771 3852 Phone: 503-777-5138

### **Radiator Repair**

#### Hart Radiator Repair

501 Grade St. Kelso, WA 98626 Phone: 360-425-6220

#### Able Radiator Repair

14511 SE River Rd. Milwaukie, OR 97267 Phone: 503-652-2707

#### Mac's Radiator - Multiple locations throughout Oregon

6147 SE Foster Rd. Portland, OR 97206 Phone: 503-777-4706

#### **City Radiator**

Richard Cunningham, Owner 1420 NW Everett St. Portland, OR 97209 Phone: 503-226-4031 Phone: 503-805-0517

## **Restoration Services**

All of these shops will do large and small jobs

#### **Eric Winters**

Salem, OR 97303 Phone: 503-399-7849

#### **Restorations and Reproductions**

Mike McKennett 17100 NE San Rafael St. Portland, OR 97230 Phone: 503-257-2433

#### **Bowers Rod Shop**

Joe Bowers, Owner 8750 Aumsville Hwy. Salem, OR 97317 Phone: 503-749-1300

#### A&M Delux Customs

1134 N. Fremont St. Cornelius, OR 97113. Phone: 503- 992-1988

#### Schroeder's Speed and Custom

912 NW Corporate Dr. Troutdale, OR 97060 Phone: 503-674-8207

## Sandblast & Powder Coating

While the generic term is "sandblasting" most shops would be better described as "media" blasters. Sand is fine for hard surfaces like the block but many other items require less destructive materials. Alternate blasting materials are glass beads, walnut shells, aluminum oxide, silicon carbide, or baking soda. Wheel blasting is different yet. This is usually done as a wheel abrading process using ball bearing shot. The point is to inquire about the blast material and ensure it is appropriate for the part being cleaned.

Les Schwab – Sand blast and powder coat wheels only All stores

**Pro Coat –** Powder coat any part including the frame 1505 NE 106th St. Vancouver, WA 98686 Phone: 360-571-0000

**Chip & Dale's Security Rails** – Sandblast and powder coat 21187 Pacific Highway E Aurora, OR 97002 Phone: 503-760-6464 Website: <u>www.chipndaleusa.com</u>

East Side Plating – Plating and powder coating 8400 SE 26th Pl. Portland, OR 97202-8946 Phone: 503-654-3774

Quality Sandblasting Inc. – Sand, glass bead, walnut shell Charles Duffield, Owner 12805 SE Carpenter Dr. (Suite 100) Clackamas, OR 97015 Phone: 503-722-2335

**Geoff Bauer** - Walnut shell and sand blasting. 7945 NE Alberta St. Portland, OR 97218 Phone: 503-320-6118

## **Speedometer Repair**

Speedometer Service & Instrument Company

3551 NW Front Ave. Portland, OR 97210 Phone: 503-227-5567

## **Steering Box Repair**

Model A steering boxes come in two types, based on the number of teeth on the steering sector. The seven tooth model, used in 1928 and early 1929, offer very little in the way of adjustment. The two tooth model, introduced in late 1929, has several adjustment options. Both are re-buildable, but require special tools. Rebuilt units typically add an oil seal on the sector shaft housing reducing, the likelihood of leaks.

**Greg's A Service** – Steering rebuilding Greg Edwards, Owner 53535 SW Scoggins Valley Rd. - 370 Gaston, OR 97119 Phone: 503-357-3980

## **Suspension Alignment & Wheel Balance**

Whatever the problem, shimmy, vibration, tire wear or hard steering, there are several corrective actions you can take prior to taking your car to a repair shop. These are general steps that if followed will lead to a safer and more enjoyable drive:

- 1. Jack up each wheel and ensure that the wheel spins true. Use a spoke straightening tool to true up all wheels and don't forget the spare.
- 2. Ensure that the control components are in good shape. Tie rod and drag link ends are easily replaced or adjusted.
- 3. Check the condition of the pitman and steering arm balls. Out of round steering balls contribute to hard steering.
- 4. Ensure that your wheel bearings are adjusted correctly. This would also be a good time to grease the wheel bearings.
- 5. Ensure that the steering geometry is correct. This means checking the toe-in, caster, and camber.
- 6. Balance the tires/wheels. Finding a shop that will/can perform spin balancing on Model A wheels has become increasingly difficult, but worth the effort. Static balancing is a good second choice option.
- 7. If you, like many of us, have excessive slop in the steering wheel you may want to also adjust your steering box. If adjustment is not the problem, it may be time for a steering box repair.

## Line Up Shop – no longer balances heels/tires

834 SE Sandy Portland, OR Phone: 503-234-9797

#### **Rob's Auto Repair**

Rick Hoke, Owner 11955 SE Hwy 212 Clackamas Or 97015 Phone: 503-650-6101 Shop: 503-628-2031 Cell: 503-936-2832

## Upholstery

#### Jim's Custom Upholstery

14912 SE Cedar Ave Milwaukie, OR 97267 Phone: 503-708-6302

Hopp's Upholstery - For installing and repairing all types

of car, boat upholstery Andrew Hopps, Owner 1715 Washington St. Oregon City, OR 97045 Phone: 503-656-2501

#### **Rob's Upholstery** – Interior installation and repair

7110 SE 82<sup>nd</sup> Ave. Portland, OR 97266 Phone: 503-771-9830

#### **Top and Trim Upholstery**

29251 SE Division Dr. Troutdale, OR 97060 Phone: 503-665-8986

## Welding Services

#### Chip & Dale's Security Rails

21187 Pacific Highway E Aurora, OR 97002 Phone: 503-760-6464 Website: <u>www.chipndaleusa.com</u>

#### **Maker Fabrication, Rick Nicholas**

28655 SE Glover Rd. Eagle Creek, OR 97022 Phone: 971-235-1443

# **Notes and Comments**

## **Online Reference Websites**

There are many websites containing useful support information. This list is sample useful websites, but is not comprehensive.

**Ethanol free gas stations** – This website maintains a list of ethanol free gas stations in the US and Canada. They currently list over 9000 stations with 212 located in Oregon. They also support smartphone apps for Apple and Android.

http://pure-gas.org/index.jsp?stateprov=OR

<u>Model A Basics</u> – A good source for a new Model A owner covering general operation. This site has a section covering starting and driving a Model A.

http://modelabasics.com/home.htm

**Model A Restorers Club** – This is a good source of information.

http://model-a-ford.org/

<u>The Ford Barn</u> - Whether a newbie or a seasoned veteran the Ford Barn is the place to go for advice and discussion of all things Ford and especially those related to the Model A.

http://www.fordbarn.com/

Ahooga – This site is dedicated to the support of the Model A Ford.

http://www.ahooga.com/

<u>A Barnyard Site</u> – This is one of the more informative sites on the net. A regular contributor to the Ford Barnyard Marco, provides some of the best step-by-step procedures for working on your Model A.

http://www.abarnyard.com/index-2.htm

**Ford Garage** - This is by far one of the most factually accurate and concise website dedicated to the Ford Model A & B.

http://www.fordgarage.com/

**Tom Endy's Technical Articles** – This is a great source of general how-to information.

http://www.ocmafc.org/Tom%20Endy's%20Technical%20Articles.htm

**Model-A.org** - Information about Model A carburetors.

http://model-a.org/procedures.html

<u>You Tube</u> – Offers a large number of support, information, and howto videos for the Model A Ford.

https://www.youtube.com/watch?v=3O36\_T\_sNzA

Les Andrews – Two part seminar on timing the Model A Ford

Part 1 - <u>https://www.youtube.com/watch?v=3Xc7r0djEKo</u> Part 2 - <u>https://www.youtube.com/watch?v=zju4nagtiCU</u>

## Online Technical Articles

Many chapters host technical articles on their websites. The following list of websites contains a good selection of technical articles that you may find helpful.

<u>Volcano A's</u> - This website contains many useful articles, including a good selection authored by Beaver Chapter member Lynn Sondenaa..

http://www.volcanoas.net/tech-notes.html

<u>Santa Anita A's</u> – The technical page contains a good selection of Tom Endy articles.

http://www.santaanitaas.org/technical-reference/tom-endys-tech-articles/

**Brazos Valley A's** – The "Tool Box" page contains several useful tips.

http://brazosvalleyas.com/tools.html

Cedar Creek Model A Club – Contains several useful articles.

http://www.cedarcreekas.org/TechTopics/index.php

Palm Beach A's – The technical page contains links to download owners, engine and chassis manuals.

http://www.palmbeachas.com/Model-A-Instruction-Manual.pdf

**<u>River Cities Model A Club</u>** – This website contains several interesting technical articles.

http://www.rivercitiesrunningboard.com/techtips.php

<u>Aiken Model A's</u> – This website has a nicely laid out technical section.

http://www.aikenas.org/playing/

Palmetto A's - Technical section containing many interesting articles.

http://palmettoas.net/Palmetto\_As\_of\_South\_Carolina/Tech\_Tips.html

Old 96 District Model A Ford Club – The technical section containing many interesting articles.

http://www.old96districtmodelaclub.com/Old\_96\_District\_Model\_A\_Club/T ech\_Tips.html

## **Recommended Spare Parts and Tools for Touring**

By Bill Reeder, as printed in The Restorer Volume 16, Number 1

### KIT NO. 1- Carry every day

### <u>Tools</u>

- Jack and handle
- Starting crank
- Ball peen hammer
- □ Socket wrenches, 5/16 to 7/8
- □ Adjustable wrench, small
- □ Box wrench, 5/8 x 3/4 (generator)
- □ Box wrench, 1/2 x 9/16 (battery)
- □ Screwdrivers, set of 3
- Pliers
- □ Wire cutter-crimper-stripper
- □ Ignition tools-feeler gauge, file
- Battery terminal puller
- General Flashlight
- Electrical circuit tester
- Distributor shaft wrench
- Knife, scout type
- □ Emergency flashers or flares, red
- □ Ford "A" spark plug wrench
- □ Ford "A" adjustable wrench

### Parts

- Fan belt
- Radiator hose set
- Light bulb set
- Wiper blade
- □ Water pump packing
- □ Tire valve cores (2), caps

- Complete (timed) distributor, or
  - Ignition points
  - □ Condenser (tested)
  - Distributor rotor
  - Distributor cap
- Spark plug
- □ Coil (tested)
- High tension coil lead
- □ Ammeter (tested)
- □ Ignition switch (tested)
- □ Cable for ignition switch
- Generator cutout (tested)

### **Supplies**

- □ Copper wire, #12 insulated (10 ft.)
- □ Iron bailing wire (20 ft.)
- Heavy string
- Electrical tape
- □ Assorted bolts, nuts, cotters, etc.
- Gasket sealing compound
- Fuel valve packing
- Rags
- □ Set of carburetor gaskets
- □ Sanding paper, fine grade
- Length of wood, 2 x 4 x 6 inches
- Fuses
- Wheel bearing grease, small jar
- Service manual
- Beaver Chapter Roster

## **Notes and Comments**

# Model A Ford Lubrication & Periodic Maintenance

From Diablo A's website

#### EACH 500 MILES

- inspect radiator hoses
- adjust fan belt
- □ inspect fan for cracks
- Change crankcase oil (if not using filter)
- check fan bearing for looseness (side play)
- Lest windshield wiper
- □ check wiper blade rubber

#### EACH 1,000 MILES

- Left Right
- □ □ front spindles (upper & lower)
- steering tie-rod
- front brake camshafts
- front spring shackles
- front shock links
- rear spring shackles
- rear shock links
- rear brake camshafts <sup>1</sup>
- □ □ rear wheel bearings <sup>1</sup>
- do all 500-mile items
- Lest emergency flashers (if equipped)
- Lest wheel bearings for looseness, spin
- L tighten windwings mountings
- Let tighten spring u-bolts, front & rear 3
- tighten all wheel lug nuts
- Lest lights (head, tail, stop, dash, etc.)

inspect all engine compartment cotter pins

I inspect all brake system cotter pins

- inspect all steering system cotter pins
- service brake cross shaft
- parking brake cross shaft
- engine control link joints
- wipe out headlight switch
- door dovetails (light coat of vaseline)
- door striker plates (same)
- door latch mechanism & lock (white graphite)
- go over entire fuel system for leaks
- Go over entire exhaust system for leaks
- clean distributor cap, lid, rotor, and check each for cracks
- □ check steering wheel free play (1" max.)
- □ battery high discharge voltage test <sup>4</sup>
- Check battery with electrical tester
- clutch pedal bearing
- □ brake pedal bearing
- drag link (both ends)
- U-joint
- Check lubricant level in differential
- Check lubricant level in transmission
- Check lubricant level in steering gear
- fan bearing
- water pump bearing
- □ check for tight electrical connections <sup>5</sup>
- □ distributor shaft (fill oiler)
- distributor cam (very light coating)
- □ check points gap. (.018" to .0223"
- Check points for pits, misalignment
- □ remove crank from front of engine
- generator bearings
- □ clean & re-oil air cleaner

- clean battery cable clamps & Vaseline
- tighten battery ground connection
- oil horn bearings
- □ clean horn commutator
- clean generator commutator, check brushes
- □ drain fuel sediment bowl
- clean carburetor filter screen
- oil main throttle shaft (rear of engine)
- door hinge pins (1 drop light oil)
- □ hook hooks (same)
- □ check clutch pedal for 1/4" free play
- check tail lamp lens mounting screws

#### EACH 2,000 MILES

- □ do all 500 and 1,000-mile items
- check shock fluid
- □ inspect starter commutator & brushes
- Given the steering gear sector shaft
- □ examine tires for wear, cracks, damage
- clutch release bearing (under floor board)
- □ check engine timing <sup>6</sup>
- □ remove crank from front of engine
- adjust service brakes
- inspect main leaf springs for cracks
- repack upper ends of shock links

- Lest parking brakes for hold on hill
- drain & flush radiator with clear water <sup>8</sup>

#### EACH 5,000 MILES

- □ do all 500 and 1,000-mile items
- check headlight focus and aim
- drain, flush, refill transmission
- same for differential
- Let tighten engine, chassis, body bolts
- □ front wheel bearings: clean, inspect, pack
- □ inspect front brake drums, linings, springs
- □ spark plugs: clean & re-gap (.035")
- □ give cooling system a chemical flush <sup>7</sup>

#### EACH 10,000 MILES

- do all previous items
- clean, inspect, pack rear wheel

bearings

- inspect & clean rear drums, linings, springs <sup>8</sup>
- Iubricate speedometer cable
- polish headlight reflectors

### Notes for lubrication and periodic maintenance:

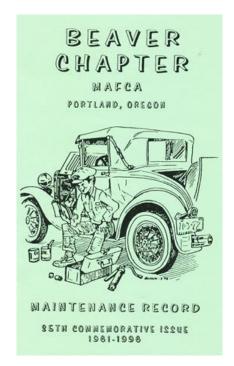
- Rear wheel bearings and rear brake operating shafts must not be over lubricated. These areas, already subject to oil seepage past the axle housing seals, have a tendency to drip lubricant onto brake drums.
- 2. Be sure there is no excessive looseness in the fronts, and no gritty sound or drag in any wheel.

- 3. The large U-bolts holding the leaf springs to the frame cross members should be kept very tight at all times. This is a precaution against cracks in the cross members and broken springs.
- 4. Check each cell with a high discharge tester; this shows whether the battery will hold its voltage under actual operating loads.
- 5. To test for tightness, try to wiggle the connection with your fingers. If it gives, tighten it. Check also that the wires are not loose in their crimped-on terminals. Look for frayed or cracked insulation and for spots where wires rest against metal to cause worn insulation. Open up the junction box and check for these items.
- 6. A very accurate way to see exactly when distributor points open is to hook up a six volt DC voltmeter across the points. With ignition on, the meter needle will jump from zero to about six volts at the instant the points open. When not performing this test, keep ignition switch off, or slip a piece of paper between the points, to keep battery from discharging through the coil primary winding.
- 7. Drain radiator immediately after running engine for about ten minutes, so that sediment and loose scale will be stirred up into the water. Do not pour cold water into a warm engine. If hot water is not available, allow engine to cool completely before refilling.
- 8. Clean every trace of grease from brake drums and brake shoe lining with rags dampened in lacquer thinner. Dry off with clean dry rags. Also remove any excess grease from bearings, bushings, and backing plates, so that none will later drop down onto drums or shoes. With everything sanitary, inspect for scored drums, worn linings, broken springs.

### **History of the Beaver Chapter**

Taken from the inside cover of the Beaver Chapter Maintenance Record booklet published in 1996.

In November 1960 fifteen fellows got together to organize a Model A Ford Club in the Portland-Vancouver area. The meeting of February 1, 1961, was the organizing meeting and the decision was made that anyone who joined in March 1961 would be considered a charter member. The official Model A Ford Club of America Charter was received in March 1961. The original group number increased to 16. This list is in the #1 Beaver Chapter Rosters Notebook. Of the original list, only one remains a member of the Beaver Chapter although several are involved with other antique car clubs. Many of them have passed on to Model A Swap Heaven. The 1962



roster has a membership of 18 listed which we know was increased by at least two more members that year.

This interest in the Model A Ford was initiated by the car itself - a dependable, low cost car which Henry Ford started producing in 1928. The fellows who started our club, and those who have since joined share in the delights of "finding that hard to find part," taking something mechanical apart and when it is put back together, all restored and in running condition – that is really something, especially when you consider the age of the machine (64-68 years of age). There is a certain gleam in the eye when discussing the various mechanisms that make the car work. There is a passion for the "motor machine."

Our club has grown in the years from those original 16 to over 250 members who now celebrate our 35<sup>th</sup> anniversary. The events that have kept us intrigued and together include many memories. Tours, where the chief joy is when the car breaks down and everyone can assist to get it running again; the annual Portland Swap Meet which was started by several of our members along with members of the Rose City Model T Club and HACO in February 1964: the monthly meetings when not only club business is conducted but also the business of talking with the right person who has the expertise one is seeking to complete "the car" or finding out what is the best way to do a certain repair or where's the best place to go for parts. The bartering, exchanges and sharing of special finds are a part of the evenings' happenings.

The Model A Ford is a unique and enduring car. So are the people who are dedicated to its restoration. This book is dedicated to both.

