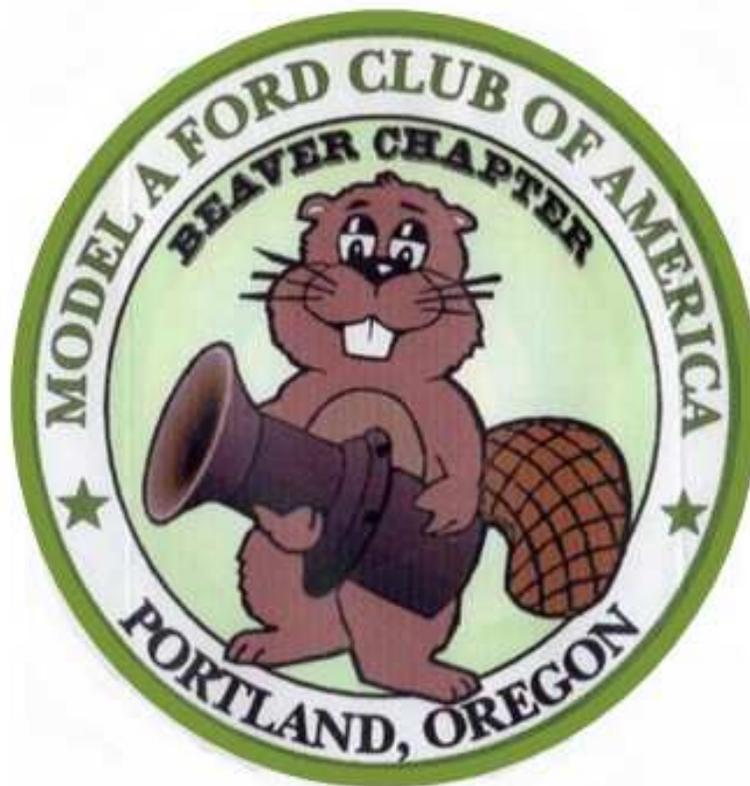


Resource Handbook



Model A Ford Club of America Beaver Chapter

Version 2.3,2 – 13 January 2016

Table of Contents

Forward.....	4
Model A Ford Club of America (MAFCA).....	5
Beaver Chapter Introduction.....	6
Beaver Chapter Resources	8
Beaver Chapter Website.....	8
Beaver Chapter Membership Directory.....	8
Ahooga News.....	8
Era Fashions.....	9
Sunshine Coordinator	9
Raffle Coordinator	9
DVD Videos	10
SWAT Team - Special Work And Tools.....	11
Club Historian	11
Mentor Program	12
Beaver Chapter Tools.....	13
Print Reference Materials	14
Primary Model A Maintenance Books	14
Advanced Model A Maintenance Books.....	15
Local Parts Suppliers.....	16
Becker's T & A Ford Parts.....	16
Gas Tank Neck Extension.....	16
Model A Ford Works.....	16
Rusty Lugs.....	16
NAPA Auto Parts Store.....	17
Online Parts Suppliers	18
MAFCA Website.....	18
Selected Online Parts Sources	19
General Parts Suppliers	19
Tires and Wheels	21
Upholstery and Interior Products	21

Local Repair Service Providers	22
Alternators, Generators & Starters.....	22
Battery & Electrical Supplies.....	22
Chrome	23
Engine Rebuild / Machining.....	23
Gas Tank Repair	25
General Repair	25
Glass Supplies and Service	26
Horn Repair.....	27
Metal Cleaning (Dipping Process)	27
Model A Tools	27
Paint Supplies	28
Pin Striping.....	28
Radiator Repair	29
Restoration Services	29
Sandblast & Powder Coating	30
Speedometer Repair	31
Steering Box Repair.....	31
Suspension Alignment & Wheel Balance	32
Upholstery	33
Welding Services.....	33
Online Reference Websites	34
Online Technical Articles	36
Recommended Spare Parts and Tools for Touring	38
Model A Ford Lubrication & Periodic Maintenance	40
Notes and Comments	43
History of the Beaver Chapter	44

Forward

Nothing in this handbook is new, or earth shattering. This is merely a compilation of useful Model A resources. 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 your two most important resources. The chapter membership contains a wealth of experience. Ask questions, and please ask for help if you need it – you will not be disappointed.

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. As you might guess, some online sources are more factual than others. Village wisdom and facts seem to comingle at times making it difficult to tell truth from fiction.

If you are new to the hobby you will find that the *Model A Instruction Book* is a good source of general information. This book was produced by Ford and provided with the car when it was new. It also contains some useful tips on maintaining and driving the Model A. Owner, engine and chassis manuals can be downloaded from the Dakota Territories Model A Club (see page 34 for link) website. Getting a driving lesson is also a good idea. Knowing what to do with both hands, and both feet, is an old skill not learned with modern cars. Our primary goal is that you have a safe and reliable driving experience.

Driving a Model A 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.”***

Model A Ford Club of America (MAFCA)

The Model A Ford Club of America, Inc. (MAFCA) is a California not-for-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 clubs, 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. Everyone dresses up in era clothing of 1928 – 1931 to add to the experience of riding in a Model A.

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

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.

Club meetings are held monthly on the 3rd Wednesday of the month. Meetings are a great time to get your Model A out for a drive. There are many reasons to attend these 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 women 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 non-car activities throughout the year. They 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 - The club offers many social events, but for many of us the 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.
- Local swap meets are advertised and 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.

Beaver Chapter board meets monthly. All members are invited to attend the board meeting. We encourage all members to run for a club officer position.

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.

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 www.beaverchapter.com. The website has four pages:

- Home - past Ahooga News, member resources, technical articles, sale items, upcoming events, and board members
- Pictures – club tours, and banquets
- Calendar – club events
- Message board – member comments

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, tool check out inventory, and touring rules. Yearly dues must be paid by January 1 in order to have your name included in the chapter directory.

Ahooga News

The club editor publishes the “Ahooga News” monthly club newsletter. It is well presented and is a very good source for club activities and future events. The primary delivery method is via email. The 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.) We try to have a mixture of items so it will appeal to more people.

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 <http://www.diabloas.com/dasvideos.html>

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 (www.youtube.com) 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 than others. With that disclaimer in mind, there is a lot of good information available on You Tube.

SWAT Team - Special Work And Tools

As a general rule club members are very good about responding to requests for help. Several members have volunteered for the SWAT team which is specifically intended to offer help or answer questions. Please call upon them for assistance.

Name	Phone Number	Location	Specialty
Ray Horton	503.333.5766	Portland	General
Art Pugsley	360.901.6695	Vancouver	General
Tom Godish	503.282.2212	St. Helens	Everything
Pete Smiley	503.591.1110	Beaverton	General
Tom Irwin	503.538.5227	Newberg	General
Jake Taasevigen	503.266.9509	Canby	General
Rand Lindell	503.970.1970	Oregon City	Blast Cabinet MIG welding
Mike McLaughlin	503.504.0411	West Linn	General
Bill Jabs	971.235.3804	Eagle Creek	Four post lift
Jay Dunwoodie	503.657.0410	Oregon City	General
Lynn Humble	503.349.2023	Happy Valley	General
Jim Van Lente	503.638.5243	Wilsonville	General
David Adair	503.655.3189	Oregon City	General
Greg Edwards	503.357.3980	Gaston	Steering
Mike Worthington	503.788.5965	Happy Valley	General

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.

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. We can do better, so we have instituted this mentor program.

This process will evolve over time but initially it should start 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.

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

Beaver Chapter Tools

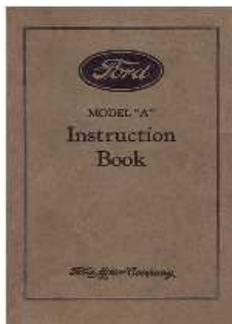
Most Model A maintenance can be performed using common hand tools. Some tasks require special tools not always found in club member workshops. The club has purchased several of these specialty tools. Club tools are stored in a trailer controlled by the Sergeant-at-Arms and are available for checkout.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

- Cherry picker (ie.2 ton shop crane)
- Hinge pin puller
- Engine stand
- Model A Ford service manual
- 3 ton axle stand
- 6 ton axle stand
- 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
- Valve gauge tool
- Large drill press
- 2 ton jacks stands
- Ratchet nut wrench
- Carburetor flow tester
- 4 inch piston ring remover
- Distributor shaft tester
- Rear hub puller – K.R. Wilson type
- Spoke straightener
- Rear brake centering tool

Print Reference Materials

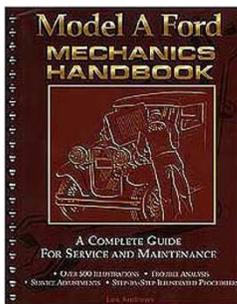
Primary Model A Maintenance Books

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.



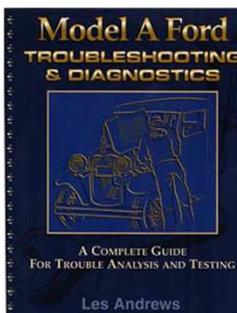
Model A Instruction Books (owner's manuals) were included with each car when new.

*** Owners, engine, and chassis manuals can be downloaded from the Dakota Territories Model A Club (see page 34 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 a complete lubrication guide, and safety inspection checklist.

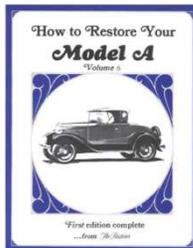


Model A Ford Troubleshooting & Diagnostics

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.

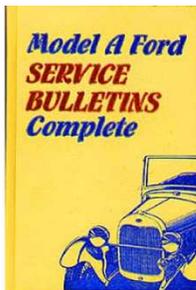
Advanced Model A Maintenance Books

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.



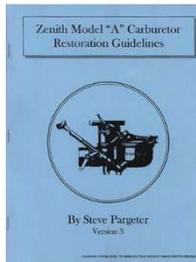
How to Restore Your Model A, Volumes 1 - 9
Published by MAFCA. These are reprints of restoration articles from *The Restorer* magazine.

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



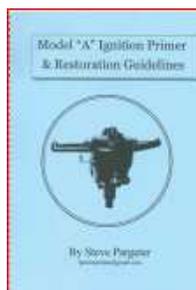
Model A Ford Service Bulletins Complete

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.

Local Parts Suppliers

Local suppliers provide a ready source of commonly used 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, and are a good source of information. They are listed alphabetically as a show of neutrality. NAPA also carries many parts for the Model A as listed on the next page.

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: BeckersAutoparts@Yahoo.com

Gas Tank Neck Extension

Andrew Jackman

P.O. Box 1052

Boring, OR 97009

Phone: 503-658-6270

Model A Ford Works

Tom Godish

2810 N. Ainsworth Street

Portland, OR 97217

Phone: 503-282-2212

Rusty Lugs

Amanda Uthe

8021 NE 142nd Avenue

Vancouver, WA 98682

Phone: 360-887-3346

Email: rustylugparts@gmail.com

Website: www.RustyLugParts.com

NAPA Auto Parts Store

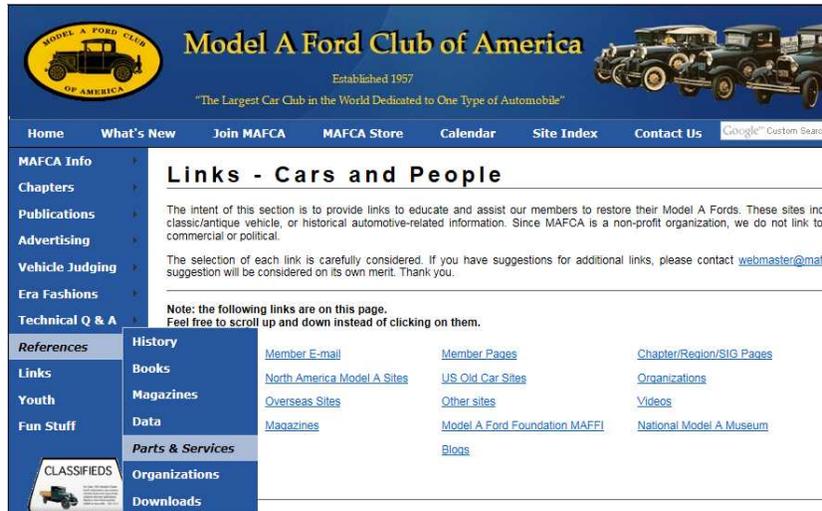
The local NAPA auto parts store also carries many parts for the Model A. Ask for the 10% car club discount. Parts may need to be ordered. Listed prices are as of 1/2/2014.

Part	Part Number	Price	Brand
Points - Original	CS30	\$ 18.99	Echlin
Points - Modern	CS751	\$ 22.77	Echlin
Condenser	FA5	\$ 11.88	Echlin
Rotor	FA3	\$ 10.77	Echlin
Spark plugs	561(w16y)	Call	Champion
Spark plugs	3X cha429	\$ 22.44	Champion (special order)
Coil - 6 volt	MPE IC7SB	\$ 16.09	Mileage Plus Electrical
Coil - 12 volt	IC14	\$ 37.99	Echlin (w/built in resistor)
Stoplight Bulb - 6 volt	1129	\$ 1.99	Napa Lamps
Taillight Bulb -12 volt	89	\$ 1.69	Napa Lamps
Stoplight Bulb - 12 volt	1073	\$ 1.99	Napa Lamps
Turn signal flasher - 6 volts	535		Napa Lamps
Overhaul Gasket Set	fs7013c	\$ 75.69	Fel Pro
Head Gasket	7031c	\$ 43.77	Fel Pro
Intake/Exhaust Gasket	fpg MS2388S	\$ 8.96	Fel Pro
	fpg		
Oil Pan Gasket	Os30912c1	\$ 8.99	Fel Pro
Valves Intake	sep v130	\$ 23.62	Sealed Power
Valve Springs	SEPbVS71	\$ 3.92	Sealed Power
Clutch Pilot Bearing	6203-2RSJ	\$ 14.16	Napa Bearing
Clutch Release Bearing	N1087	\$ 35.84	Napa Bearing
Front Wheel Bearing (inner)	15118	\$ 22.97	Timken
Front Wheel Race (inner)	15250	\$ 13.09	Timken
Front Wheel Outer Bearing	9074	\$ 24.09	Timken
Front Wheel Outer Race	09196x	\$ 10.59	Timken
Fan belt - cogged	22425		Napa Belts & Hoses
Fan Belt	NBH 2520426	\$ 16.31	Napa Belts & Hoses
Radiator Hose - Upper	NBH 611		Napa Belts & Hoses
Radiator Hose - Lower	NBH 613		Napa Belts & Hoses
King Pin Set	RPC 30107	\$ 176.49	Rare Parts Chassis
Tie Rod/Drag Link springs	RPC 26193	\$ 62.15	

Online Parts Suppliers

MAFCA Website

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



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






Listed below are companies and individuals specializing in **parts and services** for Model A Ford cars and trucks. The listings below are provided at **no charge** to the vendors. This list is intended to help Model A owners locate parts and restoration services to restore and maintain their vehicles.

If a vendor's name is **blue and underlined**, it means they are a MAFCA web site advertiser, and clicking on their name will tell you more about their services and provide a link to their web site.

Click on the mailbox icon  next to the company name to send e-mail. Please mention that you saw their listing on the MAFCA web site.

No endorsement or recommendation of any of these persons or companies is made or given. Be a smart shopper and ask around before you deal with these or any other restoration sources.

Please submit updates to this list to [VendorList Manager](#)

Vendors Added Recently:

[Model A Medic](#) - February 2015 • [Bill Horswood Speedometers](#) - February 2015 • [Model A Fabrics](#) - January 2015

[A](#) • [B](#) • [C](#) • [D](#) • [E](#) • [F](#) • [G](#) • [H](#) • [I](#) • [J](#) • [K](#) • [L](#) • [M](#) • [N](#) • [O](#) • [P](#) • [Q](#) • [R](#) • [S](#) • [T](#) • [U](#) • [V](#) • [W](#) • [X](#) • [Y](#) • [Z](#)

Phone Email

- 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 Hartford CT 06133-0322	860-233-3557	NEW Model A front and rear leaf springs	02/27/06

Selected Online Parts Sources

Vendors 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: anlel@aol.com

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

Bratton's Antique Auto Parts
1606 Back Acre Circle
Mount Airy, MD 21771
800-255-1929
Website: www.brattons.com

Hagen's Auto Parts
1526 River Road
Puyallup WA 98371
253-845-7020
Website: <http://hagensautoparts.com>

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

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

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

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

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: www.cokertire.com

Upholstery and Interior Products

LeBaron Boney
6 Chestnut Street
Amesbury, MA 01913
Email: sales@lebaronbonney.com
Website: <http://www.lebaronbonney.com/index.htm>

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

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 complete 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 Services – 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

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 Sondena – 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 78th 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: modelaguy@msn.com

A Better Glass Shop
17075 SE 82nd 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: bar_bill@msn.com

David Adair – Tool documentation and information
895 Hazelwood Dr.
Oregon City, OR 97045
Phone: 503-655-3189

Paint Supplies

Rainbow Paint – They also do paint matching
407 Pleasant Ave.
Oregon City, OR 97045
Phone: 503-655-2531

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

Pin Striping

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

Pin Striping
Paul Comeau
5112 B NE 119th St.
Vancouver, WA 98686
Phone: 360-573-2216

Pin striping - license plates etc.
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: www.chipndaleusa.com

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. The first step is to 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. The second step is to ensure that the control components are in good shape. Tie rod and drag link ends are easily replaced or adjusted. Next is the condition of the pitman and steering arms. Out of round steering balls contribute to hard steering. Next ensure that your wheel bearings are adjusted correctly. The third step is to ensure that the steering geometry is correct. This means checking the toe-in, caster, and camber. The first two items you can check yourself. The fourth step is to balance the wheels. The result will be easier steering, and less tire wear. If you, like many of us, have excessive slop in the steering wheel you may want to also adjust/repair your steering box.

Line Up Shop – On car wheel balancing
610 NE 102nd
Portland, OR
Phone: 503-252-1402

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

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 82nd Ave.
Portland, OR 97266
Phone: 503-771-9830

Top and Trim Upholstery
29251 SE Division Dr.
Troutdale, OR 97060
Phone: 503-665-8986

Jim's Custom Upholstery
14912 SE Cedar Ave
Milwaukie, OR 97267
Phone: 503-708-6302

Welding Services

Wickum's Welding Services
16509 NE 27th Ct.
Ridgefield, WA 98642
Phone: 360-721-4430

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

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>

Model A Basics – 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/>

The Ford Barn - 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/>

A Barnyard Site – 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>

You Tube – Offers a large number of support, information, and how-to 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 - <https://www.youtube.com/watch?v=3Xc7r0djEko>

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

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.

Volcano A's - This website contains many useful articles, including a good selection authored by Beaver Chapter member Lynn Sondena..

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

Santa Anita A's – 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>

Dakota Territories Model A Club – The technical page contains links to download owners, engine and chassis manuals.

http://www.fordmodela.org/tech_tips.php

River Cities Model A Club – This website contains several interesting technical articles.

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

Aiken Model A's – 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/Tech_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

Tools

- 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
- 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
- Accelerator spring
- Tire valve cores (2), caps

- Complete (timed) distributor
- Ignition points
- Condenser (tested)
- Spark plug
- Coil (tested)
- High tension coil lead
- Distributor rotor
- Distributor cap
- 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
- Assorted small springs
- 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

KIT NO. 2 - for long trips**Tools**

- Timing gear wrench, Ford tool 5-2-1832
- Valve guide remover
- Rear hub puller, screw type
- Grease gun (for your fittings)
- Scissors, for gasket work
- Tire pump
- Water pump gasket
- Fan (inspected for cracks)
- Generator, oiled and tested
- Carburetor, tested
- Distributor, tested
- Distributor lower shaft
- Distributor cap, lid, rotor
- Head gasket
- Manifold gasket
- Timing gear (check size)
- Rear axle key
- Rear axle taper shims
- Front wheel bearings, races
- Set of fuel lines, fittings
- Tie rod and drag link spring
- Brake spring assortment

- Inner tube patch kit
- Tire irons (2)
- Drift, 5/8 diameter brass

Parts

- Water pump, pre-greased
- Fuel shut-off valve
- Stop light switch (tested)
- Distributor body
- Starter switch
- Starter drive

Supplies

- Soap and talcum, for tire
- Gasket material, 12 x 12 inches
- Les Andrews, Mechanics Handbook
- Les Andrews, Trouble Shooting Manual
- MAFCA Roster

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)
- test windshield wiper
- check wiper blade rubber
- 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

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 ¹
- rear wheel bearings ¹
- do all 500-mile items
- test emergency flashers (if equipped)
- test wheel bearings for looseness, spin
- tighten windwings mountings
- tighten spring u-bolts, front & rear ³
- tighten all wheel lug nuts
- test lights (head, tail, stop, dash, etc.)
- inspect all engine compartment cotter pins
- inspect all brake system cotter pins
- check steering wheel free play (1" max.)
- battery high discharge voltage test ⁴
- 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 ⁵
- 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
- grease steering gear sector shaft
- examine tires for wear, cracks, damage
- clutch release bearing (under floor board)
- check engine timing ⁶
- remove crank from front of engine
- adjust service brakes
- inspect main leaf springs for cracks
- repack upper ends of shock links

- test parking brakes for hold on hill
- drain & flush radiator with clear water ⁸

EACH 5,000 MILES

- do all 500 and 1,000-mile items
- check headlight focus and aim
- drain, flush, refill transmission
- same for differential
- 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 ⁷

EACH 10,000 MILES

- do all previous items
- clean, inspect, pack rear wheel bearings
- inspect & clean rear drums, linings, springs ⁸
- lubricate speedometer cable
- polish headlight reflectors

Notes for lubrication and periodic maintenance:

1. 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.

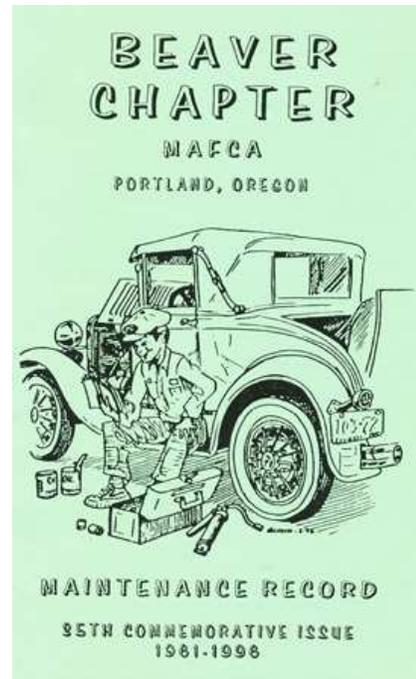
3. The large U-bolts holding the leaf springs to the frame cross members should be kept very tight at all times. This is a precaution against cracks in the cross members and broken springs.
4. Check each cell with a high discharge tester; this shows whether the battery will hold its voltage under actual 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.

Notes and Comments

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 35th 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.

