

TOPICS LIST:

Accessories
 Aircraft, Franklin engines
 Body
 Body, Interior
 Body, Paint/Color
 Body, Plating
 Body, Upholstery
 Brakes, Emergency
 Brakes, General
 Brakes, Hydraulic
 Brakes, Mechanical
 Chassis, Electrical
 Chassis, Electrical--Horn
 Clutch
 Drive Train/Drive shaft
 Drive Train/rear int. gears
 Engine, Appearance
 Engine, Bearings
 Engine, Cooling
 Engine, Camshaft/timing gears
 Engine, Crankshaft
 Engine, Electrical
 Engine, Exhaust
 Engine, Fuel
 Engine, Fuel Carburetor
 Engine, Ignition
 Engine, Ignition Magneto
 Engine, Mechanical
 Engine, Oil Seals
 Engine, Rebuilding
 Engine, Spark Plugs
 Engine, Troubleshooting
 Engine, Valves
 Fabric Top
 Frame
 Front Axle & Alignment
 Fuel, Pump
 Fuel, Tank/lines
 Headlights
 Information Searching
 Instruments, Fuel
 Instruments, Speedometer
 Instruments/Gages
 Lubrication, Chassis
 Lubrication, Engine
 Lubrication, Engine Valves
 Lubrication, Oil Filter
 Lubrication, Oils
 Lubrication, Oil pump/lines
 Lubrication, Steering
 Lubrication, Transmission
 Misc.
 Misc., Info Searching
 Misc., Restoration
 Performance
 Rear Axle
 Shocks
 Speedometer
 Springs/suspension
 Starter
 Steering
 Tires
 Top & Top Bows
 Transmission
 Troubleshooting
 Upholstery
 Wheel bearings/Seals
 Wheels
 Windshield/Windows
 Windshield wiper
 Wooden Chassis issues

How to use the INDEX:

Background:

This is really *two indexes*. The first one is sorted by General topic then by year/model. The second one is sorted by model year then by General Topic. Each item is a Question & Answer from the website.

The website Q&A's have built up over an *eleven year period*. The website lists them *simply by the date* they were posted. Thus the date is the *Index's page number*. Usually, only one or a few questions were posted on a given day but sometimes many questions were posted on a given day. This means you may have to search several listings in that date to find the desired item.

Many of the folks asking questions did not clearly indicate the car they were talking about—most often not posting the model year. This creates the most problems during models like S-9, S-10 and S-11 each of which ran several years. Even when it was narrowed down to S-9A or S-11A in the question, there was a two or three year spread. As a result, when in doubt, I assigned the series middle year to the question for indexing. I tried to resolve this if I knew or guessed the name of the questioner. I would look up him and his car on the register. There is no attempt to separate designations like S135 and S137 models in the listings by year. It usually wasn't clearly stated and for mechanical issues, it wasn't that important.

So you can see, this project, like archeology, requires some guess work. I reckon that the listings are at least 90% accurate. When I couldn't figure it out, it was put in the "ALL" category.

So much for the assumptions . . .

How to use:

Many of the cars of a model, or years around it, suffer similar problems and issues. Examples: S-10 and S-11 are mechanically similar in many ways. Also, most of the sidedraft years are pretty similar to each other. So when you are looking up a carburetor or ignition problem on a 1923 S-10, you should read the wisdom of the S-10's and S-11's. If you have a hydraulic brake problem, then reading brake problems from 1928 through 1934 is usually appropriate.

This is why the INDEX is sorted two ways: First, by General category, then by year. This bunches the items for different years together so you can see their relationship in the Key word/phrase list. Second, listing by year can quickly zero you in on your specific car and you can see the whole scope of problems covered in the website. In the second listing by year, ***be sure to check out the multiple year listing*** (i.e.: 1930-34 which covers the similar side draft engined cars).

To the left is a list of the general categories.

It is hoped this INDEX will help you navigate and find all of the good wisdom that **Tom Rasmussen** (mostly!!) and **Paul Fitzpatrick** (more recently) have assembled in the last 10 years. Also, it is intended to clearly show the broad scope of the Q&A's on the website, thereby encouraging more Franklin owners to use the website as a ***living, breathing Service Manual***. Be sure and read all of the entries for your selected topic to get the most up to date information.

It is a wonderful piece of work by two knowledgeable and dedicated Franklin folks.

Date	Year	Series	General category:	Key Words
XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>		
February 2009				
8/27/09	1906	G	Accessories	Correct identification of proper acetylene generator. Solar 713
6/5/06	1926	S-11	Accessories	Kellogg tire pump and manifold heater
8/23/08	1928 >>	S12-19	Accessories	Source of Purolator decals, tags for distributor and generator
1/20/09	1928	S-12B	Accessories	Accessory spotlight— can be difficult to find
10/15/09	1928	S-12B	Accessories	Description of correct fender mirrors. Difficulties in finding them.
1/24/07	1929	S-130	Accessories	Using 30-31 Mod.A ford radiator cap. Slight modification (vent hole) required.
5/5/09	1929	S-12-13	Accessories	Possible source of spare wheel mounted rear view mirrors
8/20/05	1930	S-14	Accessories	Manifold heater interference
8/20/05	1930	S-14	Accessories	MASCO cast iron manifold heater
1/2/08	1930	S-14	Accessories	Description of a contemporary, correct after-market radio for S-14
11/27/08	1930	S-147	Accessories	Discussion of proper trunk for a S147 sedan
10/7/07	1931	S-153	Accessories	Modern aircleaner for side draft? Suggested modern air cleaners and installation issues.
10/24/07	1931	S-153	Accessories	Neat modern air cleaner installation.
1/6/09	1931	S153	Accessories	Identifying an unusual Waltham clock>>Awaltham for S153 Delux Sdn, rare
1/31/09	1931	S153	Accessories	"Kelch" Heating system in S153 and Masco heaters (1928-34)
1/31/09	1931	S153	Accessories	Identifying an unusual Waltham clock
2/12/09	1931	S153	Accessories	Details, operation and risks of Accessory "Kelch" Heating system in S153
1/13/01	1932	S-16	Accessories	Authentic accessories
10/2/07	ALL Yrs	ALL	Accessories	Electric solenoid fuel shutoff. Good safety idea !! Source of solenoids.
9/10/08	ALL Yrs	ALL	Accessories	Comments on restoring an old Quakerstate 1 gallon oil can
9/27/05	1940	Aircraft	Aircraft, Franklin	Propeller ID
1/14/02	1903	A	Body	Body Squeaks
1/14/02	1903	A	Body	Anti-squeak material
9/4/03	1913	S-3	Body	Finish of hood front grill, Cad or Zn plated or painted
7/5/06	1913	S-3	Body	Plating brass tail light, disassembly problems, type of plating
9/15/04	1914	S-6	Body	Source of elevator bolts for running boards
2/26/04	1919	S-9	Body	Hood cooling shelves, tacked webbing
2/26/04	1919	S-9	Body	Description of proper webbing attachment
2/26/04	1919	S-9	Body	Blind riveting procedure
2/29/04	1919	S-9	Body	Hood cooling shelves, tacked webbing
2/29/04	1919	S-9	Body	Description of proper webbing attachment
2/29/04	1919	S-9	Body	Blind riveting procedure
8/20/08	1919	S-9	Body	Owner found set of original keys under seat bottom panel. Factory ??
2/13/04	1920 -27	S-9-11	Body	Top Drip rail
2/13/04	1920 -27	S-9-11	Body	Description of top material and drip rail construction
3/20/00	1922	S-10	Body	Using the door locks
4/28/04	1923	S-10	Body	Hood Lion?
3/27/06	1925	S-11	Body	Cleaning techniques for cleaning your old dirty Lion (on "radiator cap")
1/23/02	1926	S-11	Body	Running Board Material
1/23/02	1926	S-11	Body	Sources of running board rubber
9/23/04	1926	S-11	Body	Removing spare tire lock
9/23/04	1926	S-11	Body	Description of Keys for locks on S-11
9/23/04	1926	S-11	Body	Operation of spare tire lock
7/22/99	1927	S-11	Body	Anti squeak material
7/22/99	1927	S-11	Body	Felted paper
7/22/99	1927	S-11	Body	Spray graphite
2/19/04	1927	S-11	Body	Top Drip Rail
2/19/04	1927	S-11	Body	Description of construction
2/19/04	1927	S-11	Body	Installation procedure
2/25/04	1927	S-11	Body	Hood gap, rear bottom
2/26/04	1927	S-11	Body	Top Drip Rail
2/26/04	1927	S-11	Body	Description of construction
2/26/04	1927	S-11	Body	Installation procedure
10/26/00	1928	S-12	Body	Check other original cars
4/21/03	1928	S-12	Body	Problems and suggestion of fitting body panels to wood frame
4/21/03	1928	S-12	Body	Advice on fitting metal body panels to wood frame
4/7/06	1928	S-12	Body	Comments on different plating of bumpers, including SS replacement
7/1/09	1928	S-12	Body	Various procedures to re-install old body moulding strips
10/15/09	1928	S-12B	Body	How to deal with extra holes in front grille.
1/28/03	1929	S-13	Body	Top clips or cinch sockets
1/28/03	1929	S-13	Body	Source of NOS top fasteners
5/20/03	1929	S-13	Body	Replacement side mount straps
5/20/03	1929	S-13	Body	Source of leather straps
8/29/03	1929	S-13	Body	Type of body frame wood
9/11/03	1929	S-13	Body	Exterior bright work, Cr or Nickel?
4/11/04	1929	S-13	Body	Source of cowl vent gasket rubber
4/11/04	1929	S-13	Body	Discussion of various window seals
1/24/07	1929 -34	S-13-17	Body	Sheet metal body nails: methods and tools for prying and removal.
2/21/07	1929	S-130	Body	Color of drip rail and Nails. Similar to S-12. Making rails from fender welt, details.
7/13/07	1929	S-130	Body	Colors of Door jams and edges. Long discussions on various observations.
9/27/07	1929	S130	Body	Fender Welting? Diameter. Material. Length and installation.
10/4/07	1929	S130	Body	Details on installing fender welting.

Date	Year	Series	General category:	Key Words
	XXX		<<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
1/26/00	1930	S-14	Body	Body-frame fit, roadster
1/26/00	1930	S-14	Body	Body wood details
5/1/00	1930	S-14	Body	Coupe
5/2/00	1930	S-14	Body	Roadster body
5/2/00	1930	S-14	Body	Golf door & hamper door
5/2/00	1930	S-14	Body	bending Aluminum
5/2/00	1930	S-14	Body	Annealing (softening) aluminum
1/31/01	1930	S-14	Body	Rain gutter channel in roadster rumble seat
1/31/01	1930	S-14	Body	Discussion on making channel by hand
1/22/04	1930	S-14	Body	Comments on body construction
3/18/04	1930	S-14	Body	Nails for the trunk
3/18/04	1930	S-14	Body	Source of trunk nails
12/3/04	1930	S-14	Body	Rivet repair to hood front louver slats
2/7/07	1930	S-145	Body	S/n ID plate details. Curiosities: Patent Number information
7/3/08	1930	S-147	Body	Golf bag door seal on roadster. What to use.
8/20/08	1930 >>	S14 >>	Body	Hood shutter pivot pin, how to remove. Suggest Dick Pratts repro ss shutters
1/23/02	1931	S-15	Body	Tire Covers
1/23/02	1931	S-15	Body	Federal Tire covers accessory (metal)
4/27/02	1931	S-15	Body	Steele Part No.
12/10/99	1932	S-16	Body	rot problems in rear deck
2/7/01	1932	S-16	Body	Correct running board trim
5/5/03	1932	S-16	Body	Using thinner laminated freezer door glass
5/5/03	1932	S-16	Body	Metro Molded Rubber 1-800-878-2237
5/20/06	1932	S-16	Body	Sources & Advice on Hood (Cowl and Grille) lacing
5/23/06	1932	S-16	Body	Cowl Vent Rubber Seal; Source (Karr); comments on cowl vent drains
7/17/09	1932	S153	Body	Trim, sealing and construction details of rear body on S153 Club Sedan
10/21/04	1933	S-18	Body	Drip Molding, sources and substitutions
3/27/06	ALL Yrs	All	Body	Type of sheel Aluminum for Al-panel body repairs
8/26/06	ALL Yrs	ALL	Body	Problems and comments on body removal from frame. Gas tank repair problem.
5/27/03			Body	Body Wood and fitting issues
5/27/03			Body	Walker body fitting and nailing details
2/24/04			Body	Source of hood lacing
3/23/04			Body	Window Rubber seals for Walker body
3/23/04			Body	Cowl vent seal
3/23/04			Body	Comments about sponge rubber top seal
1/31/08	1922	S-9B	Body, interior	Source of linoleum flooring. Source of window channels.
4/6/06	1923	S10	Body, Interior	Comments on Dash finish in S-10
4/24/09	1923	S10A	Body, Interior	Details of interior material needs for a S10A touring car (prob similar to S9)
6/16/06	1925	S-11	Body, Interior	Dashboard pebble texture?; late'25 finish of dash; Early cars varnished?
4/30/09	1928	S-12	Body, Interior	Construction details of the front, exterior sun visor.
9/11/03	1929	S-13	Body, Interior	Wood graining dash and window frames
9/11/03	1929	S-13	Body, Interior	Description of wood graining and plating
9/12/03	1929	S-13	Body, Interior	Description of wood graining and plating
2/5/07	1929	S-130	Body, interior	How are floorboards held down? Details of washer and fitting hole.
4/8/09	1929	S-13	Body, Interior	Proper seat upholstery material on 1929 Sedan
4/24/09	1929	S-13	Body, Interior	Good replacement switch for dome light
4/24/09	1929	s-13	Body, Interior	Numerous interior, upholstery details
4/27/02	1931	S-15	Body, Interior	Front Door check straps
3/23/04			Body, Interior	door glass channel source
2/28/07	ALL Yrs	ALL	Body, Paint color	Discussion of obtaining color from paint mfr paint chips.
8/27/09	1916 -22	S-9	Body, Paint/Color	Procedure to achieve correct dash panel appearance
12/5/07	1925	S-11A	Body, paint/color	Ways of determing/choosing a color and having mixed w modern paints.
11/6/06	1929	S-130	Body, Paint/Color	Crank hole cover, proper plating and painting described
7/3/08	1930	S-147	Body, paint/color	Painting hood front shutters. Discussion of colors (no clear info from factory)
3/24/09	1930	S145	Body, Paint/Color	Finding paint color on car. Source of list of colors, finding paint color chips
10/26/00	1928	S-12	Body, Paint/colors	Look under hidden areas for original colors
11/29/00	1928	S-12	Body, Paint/colors	Door jam colors
11/29/00	1928	S-12	Body, Paint/colors	Originally painted on by Brush?
3/11/99	1929	S-13	Body, Paint/colors	Paint colors
3/11/99	1929	S-13	Body, Paint/colors	Paint chips
3/11/99	1929	S-13	Body, Paint/colors	Wheel color schemes
4/4/04	1929	S-13	Body, Paint/colors	Discussion of paint schemes for 1929
4/5/04	1929	S-13	Body, Paint/colors	Discussion of paint schemes for 1929
4/5/04	1929	S-13	Body, Paint/colors	Fire wall color same as body
4/5/04	1929	S-13	Body, Paint/colors	How to revive small section for color determination
4/20/04	1929	S-13	Body, Paint/colors	Paint colors
4/20/04	1929	S-13	Body, Paint/colors	Tom's philosophy on choosing paint schemes
5/1/00	1930	S-14	Body, Paint/colors	Painting door jams, doors & body
5/1/00	1930	S-14	Body, Paint/colors	Discussion of schemes
5/1/00	1930	S-14	Body, Paint/colors	Check other original cars
3/23/04	1930	S-14	Body, Paint/colors	Paint scheme for '30 Victoria Brougham
3/23/04	1930	S-14	Body, Paint/colors	Some history on factory color selection

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
3/12/04	1932	S-16	Body, Paint/colors	Blue Paint scheme for '31 convert.
3/12/04	1932	S-16	Body, Paint/colors	Problems and procedure of matching paint
3/12/04	1932	S-16	Body, Paint/colors	Sage advice about carefully matching colors
3/12/04	1932	S-16	Body, Paint/colors	Use of modern fleet colors
3/23/04	1932	S-16	Body, Paint/colors	Blue Paint scheme for '31 convert.
6/18/98			Body, Paint/colors	Buffing original paint
6/18/98			Body, Paint/colors	Recommended polishing compounds
6/18/98			Body, Paint/colors	Very Careful !
6/18/98			Body, Paint/colors	Polish by hand
3/19/04			Body, Paint/colors	Paint color websites for '20's & '30's
3/19/04			Body, Paint/colors	Cautions on website paint formulas
3/19/04			Body, Paint/colors	Experiments with website orgs on color matching
5/5/07	1928	S-12B	Body, plating	Nickel or Chrome? Modern Nickel, easier maintenance. Reliable Plating source.
4/14/09	1928	S-12	Body, Plating	Discussion of proper plating of S-12. Pros nd cons of old Ni vs "new" Ni plating
1/16/00	1921	S-9	Body, Upholstery	Leather, original
1/16/00	1921	S-9	Body, Upholstery	rejuvenating leather
1/16/00	1921	S-9	Body, Upholstery	Various vendors
1/16/00	1921	S-9	Body, Upholstery	Treatment, vat dyed vs surface sprayed
1/16/00	1921	S-9	Body, Upholstery	type of leather, short grain cobra
7/26/04	1922	S-10	Body, Upholstery	Source of straps
2/11/07	1925	S-11A	Body, upholstery	Substituting S-12 robe rail into S-11 Sedan. Procedure, description & problems.
9/15/04	1927	S-11	Body, Upholstery	Moth Proofing interior
9/15/04	1927	S-11	Body, Upholstery	Advice on Moth killing and proofing
12/29/05	1927	S-11	Body, Upholstery	Source of Pom-pom shade pulls
12/29/05	1927	S-11	Body, Upholstery	Window shade description, no pom-poms
10/26/00	1928	S-12	Body, Upholstery	upholstery sample, paint colors
10/15/09	1928	S-12B	Body, Upholstery	How rear seat cushion fins into car. Advice: check other similar cars
10/27/05	1929	S-13	Body, Upholstery	Side mount Tire Cover
11/15/07	1930	S-14	Body, upholstery	Type of thread use on wool upholstery. A advice on using modern threads and techniques.
11/15/07	1930	S-14	Body, upholstery	Type and technique of using brads (very small nails) on closed car upholstery.
1/23/02	1931	S-15	Body, Upholstery	Tire Covers
1/23/02	1931	S-15	Body, Upholstery	Federal Tire covers accessory (metal)
2/3/02	1931	S-15	Body, Upholstery	Federal tire covers (metal)
2/3/02	1931	S-15	Body, Upholstery	Repro covers avail from CCCA
7/20/04	1931	S-15	Body, Upholstery	Interior color
7/20/04	1931	S-15	Body, Upholstery	Interior plating on doors
2/11/07	1931	S-153	Body, upholstery	Comments on plated screws and seat springs for Conv. Coupe.
2/7/01	1932	S-16	Body, Upholstery	Type of carpeting
2/7/01	1932	S-16	Body, Upholstery	Headliner schemes and color
6/20/07	1929	S-130	Body, window seals	Techniques for installing glass. Sources for seal and cauk materials for glass.
7/13/06	1929	S-130	Body, Paint/Color	Comments on black fenders and other colors.
11/9/06	1931 -32	S15-16	Brakes, Emergency	Dissassembly of hand brake lever for refinishing and plating.
7/7/06	1929	S-130	Brakes, General	Brake pedals and pedal pads
3/2/98	1928	S-12	Brakes, Hydraulic	Master cylinder, rebuild
3/2/98	1928	S-12	Brakes, Hydraulic	Parts avail at NAPA
3/2/98	1928	S-12	Brakes, Hydraulic	Stainless sleeving
3/4/99	1928	S-12	Brakes, Hydraulic	Rebuilding Master Cylinder
3/4/99	1928	S-12	Brakes, Hydraulic	Source of Rebuild Kit
11/11/03	1928	S-12	Brakes, Hydraulic	Bent or warped brake drum
11/11/03	1928	S-12	Brakes, Hydraulic	Caution on turning drums !!
11/11/03	1928	S-12	Brakes, Hydraulic	Possible shimming of drum on wood wheel, if bent
10/21/04	1928	S-12	Brakes, Hydraulic	Brake Drums
10/21/04	1928	S-12	Brakes, Hydraulic	Source (New club project)
11/22/08	1928	S-12	Brakes, Hydraulic	Positioning of brake shoes (lining length and position) on backing plates
3/27/09	1928 S-12>>>		Brakes, Hydraulic	Single flair or double flair preparation of Franklin brake tubing ?
6/14/09	1928 -34 S-12>>		Brakes, Hydraulic	Importance of brass compression washers on flex hose brake lines
2/3/02	1929	S-13	Brakes, Hydraulic	Brake fluid
2/3/02	1929	S-13	Brakes, Hydraulic	Dot 3 vs Dot 5
2/3/02	1929	S-13	Brakes, Hydraulic	Cleaning system
2/3/02	1929	S-13	Brakes, Hydraulic	Dot 5 spongy
2/3/02	1929	S-13	Brakes, Hydraulic	Dot 5 easy on paint
2/3/02	1929	S-13	Brakes, Hydraulic	Advice on turning steel brake drums
8/23/03	1929	S-13	Brakes, Hydraulic	Master cylinder problem
8/23/03	1929	S-13	Brakes, Hydraulic	Description of components and seals
8/23/03	1929	S-13	Brakes, Hydraulic	Caution with Dot-5 fluid
8/23/03	1929	S-13	Brakes, Hydraulic	Issues with SS bore vs regular bore
8/23/03	1929	S-13	Brakes, Hydraulic	M/C internals kits avail from NAPA
9/15/04	1929	S-13	Brakes, Hydraulic	Adjusting Brakes, FSS Vol. 75
2/5/06	1929 -34 S-12-19		Brakes, Hydraulic	Sources of MC repair kits and clarification of different years
2/5/06	1929	S-13	Brakes, Hydraulic	Sleeving brake cylinders; should they be honed?; criticalMC adjustments
3/27/06	1929 -34 S-12-19		Brakes, Hydraulic	Sources of MC repair kits and clarification of different years
3/27/06	1929	S-13	Brakes, Hydraulic	Sleeving brake cylinders; should they be honed?; criticalMC adjustments

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
5/23/06	1929 -34	S-13-16	Brakes, Hydraulic	Inspection of brake systems; hidden problems
5/8/09	1929	S-13	Brakes, Hydraulic	Brake light switch sergicing. Parts interchange w side draft backup light switches
4/4/02	1930 -34	S14 >	Brakes, Hydraulic	Master cylinder cap
4/4/02	1930 -34	S14 >	Brakes, Hydraulic	Wheel cylinder part numbers
4/4/02	1930 -34	S14 >	Brakes, Hydraulic	Oversize wheel cylinders, front
4/4/02	1930 -34	S14 >	Brakes, Hydraulic	Master cylinder rebuild kit nos.
4/4/02	1930 -34	S14 >	Brakes, Hydraulic	Available Wagner parts and NAPA
8/24/02	1930	S-14	Brakes, Hydraulic	Brake Overhaul, hydraulic
8/24/02	1930	S-14	Brakes, Hydraulic	Wheel cylinder kits, source
8/24/02	1930	S-14	Brakes, Hydraulic	Master Cylinder kits, source
8/24/02	1930	S-14	Brakes, Hydraulic	Brake hoses, source
8/24/02	1930	S-14	Brakes, Hydraulic	Sleeving old cylinders with Stainless
2/20/03	1930	S-14	Brakes, Hydraulic	Wheel Cylinder Overhaul Kits
2/20/03	1930	S-14	Brakes, Hydraulic	Local sources of kits
2/20/03	1930	S-14	Brakes, Hydraulic	Discussion of adv/disadv of larger front wheel cylinders
2/20/03	1930	S-14	Brakes, Hydraulic	sleeving cylinders, sources
2/23/03	1930	S-14	Brakes, Hydraulic	Modern Wheel Cylinder, mounting
2/23/03	1930	S-14	Brakes, Hydraulic	Construction differences of Brands of w/c's
1/22/04	1930	S-14	Brakes, Hydraulic	Brake lines
1/22/04	1930	S-14	Brakes, Hydraulic	Length of various Br Lines
1/22/04	1930	S-14	Brakes, Hydraulic	Source of protective loam for Br. Lines
1/22/04	1930	S-14	Brakes, Hydraulic	Pictures showing brake line mounting clips
10/25/04	1930	S-14	Brakes, Hydraulic	What brake fluid to use.
4/30/05	1930 -34	S14 >	Brakes, Hydraulic	Master cylinder rebuild kit numbers
4/30/05	1930 -34	S14 >	Brakes, Hydraulic	Availability of M/C kits
4/30/05	1930 -34	S14 >	Brakes, Hydraulic	Interchangeability of M/C kits
5/29/06	1930	S-145	Brakes, Hydraulic	Advice on rebuilding brakes; commercial liability issues
7/19/06	1930	S-145	Brakes, Hydraulic	Adjustment of Pedal and master cylinder piston and rubber cup for max volume.
10/17/06	1930	S-145	Brakes, Hydraulic	Proper bake line tubing. Proper assembly and parts of m.cyl., bleeding procedure
1/8/08	1930	S-14	Brakes, Hydraulic	Shimmy/un-even braking. Discussion of trouble shooting and solutions.
8/4/08	1930 -34	S-14 >>	Brakes, Hydraulic	Sources and part nos. for hydr. Brakes on side drafters (various suppliers)
5/15/09	1930	S145	Brakes, Hydraulic	Discussion of brake bleeding methods
12/6/01	1931	S-15	Brakes, Hydraulic	Copper brake lines
3/14/02	1931	S-15	Brakes, Hydraulic	Silicone brake fluid
3/14/02	1931	S-15	Brakes, Hydraulic	Air absorption
5/27/04	1931	S-15	Brakes, Hydraulic	Rebuild Kit for Master Cylinder, source
5/2/05	1931	S-15	Brakes, Hydraulic	Brake parts
1/19/09	1931	S-15	Brakes, Hydraulic	Discussion of brake lines and single vs double flaring. Best type of tubing to use
9/1/02	1932	S-16	Brakes, Hydraulic	Stop light switch
9/1/02	1932	S-16	Brakes, Hydraulic	Modern replacement switch at NAPA
9/1/02	1932	S-16	Brakes, Hydraulic	Dot 5 brake fluid, harmful to stoplight switch
4/30/04			Brakes, Hydraulic	Brake fluid tank decals, source
4/30/05			Brakes, Hydraulic	Master cylinder rebuild kit numbers
4/30/05			Brakes, Hydraulic	New wheel cylinders vs getting old cylinders sleeved
9/5/02	1906 -27	S11	Brakes, Mechanical	Brake linings for service brake, trans drum
9/5/02	1906 -27	S11	Brakes, Mechanical	Modern substitute, reportedly OK
9/5/02	1906 -27	S11	Brakes, Mechanical	Source of modern lining
4/21/08	1916 -27	S9-11	Brakes, Mechanical	Brake Chatter caused by too much transmission shaft end play
7/3/06	1919	S-9	Brakes, Mechanical	New RNAW linings, 2-wheel brake performance, hand brake back up
4/11/07	1919	S-9B	Brakes, Mechanical	Brake Chatter. Resulting from end play in rear of transmission. Suggested solution.
4/1/00	1925	S-11	Brakes, Mechanical	Service Brakes
4/1/00	1925	S-11	Brakes, Mechanical	Relining procedure
4/1/00	1925	S-11	Brakes, Mechanical	Cracks on Drum and band
4/1/00	1925	S-11	Brakes, Mechanical	Causes of chatter
4/1/00	1925	S-11	Brakes, Mechanical	Adjusting rear output bearing
6/12/02	1925	S-11	Brakes, Mechanical	Brake lining material
6/12/02	1925	S-11	Brakes, Mechanical	Comments on best material (asbestos)
6/12/02	1925	S-11	Brakes, Mechanical	Comments on other factors on brake performance
6/29/02	1925	S-11	Brakes, Mechanical	Candidate Brake lining (modern)
8/6/06	1926	S-11A	Brakes, Mechanical	Brake llight switch, repairing.
3/14/01	1927	S-11	Brakes, Mechanical	Serve Brake lining thickness
5/26/03	1913	S-3	Chassis, Electrical	Dealing with a mis-wound starter generator, 18 volts
9/4/03	1913	S-3	Chassis, Electrical	Operation of Ignition switch
4/28/04	1923	S-10	Chassis, Electrical	Historical summary of voltages on Franklins
4/7/02	1925	S-11	Chassis, Electrical	Turn Signals
4/7/02	1925	S-11	Chassis, Electrical	Signal chimes
4/7/02	1925	S-11	Chassis, Electrical	Source (Radio Shack)
12/1/04	1925	S-11	Chassis, Electrical	Positive or negative ground wiring
4/28/04	1927	S-11	Chassis, Electrical	Source of 3volt bulbs, dash and taillight
3/5/02	1928	S-12	Chassis, Electrical	Turn signal installation
3/5/02	1928	S-12	Chassis, Electrical	Sources of turn signal stuff
11/21/02	1928	S-12	Chassis, Electrical	Converting to 12Volts

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
11/21/02	1928	S-12	Chassis, Electrical	Comments on Battery construction
5/1/03	1928	S-12	Chassis, Electrical	Discussion of use of 8 volt battery
11/23/04	1928	S-12	Chassis, Electrical	Ignition switch operation, pop out type
11/23/04	1928	S-12	Chassis, Electrical	Advice on repairing Electrolock switch
9/22/05	1928	S-12	Chassis, Electrical	Wiring harness sources
1/8/07	1929	S-130	Chassis, Electrical	Details of Battery box and lid.
2/7/07	1929	S-130	Chassis, Electrical	Routing of tailite and gas sending unit wiring. Best source: look at similar car
8/27/08	1929	S-130	Chassis, Electrical	Source of 30 amp fuse
9/10/08	1929	S-130	Chassis, Electrical	Comments on fuse sizes for current ltd relat and lights
2/10/03	1930	S-14	Chassis, Electrical	6 volt vs 12 volts systems
2/23/03	1930	S-14	Chassis, Electrical	Comments on 12V conversion
6/14/09	1930	S145	Chassis, Electrical	Good advice on a number of wiring issues and problems
2/20/03	1931	S-15	Chassis, Electrical	Battery replacement size
2/20/03	1931	S-15	Chassis, Electrical	Discussion of Battery design
2/20/03	1931	S-15	Chassis, Electrical	Design issues of Hi vs Low CCA
8/19/03	1933	S-18	Chassis, Electrical	Olympic Wiring Harness
8/19/03	1933	S-18	Chassis, Electrical	Making up a wiring harness
1/24/07	1931	S-153	Chassis, electrical - horn	Wiring path for horns. Use horn relay.
1/13/04	1930	S-14	Chassis, Electrical--	Horn button, removal/disassembly
1/13/04	1930	S-14	Chassis, Electrical--	Procedure to remove & disassemble horn and shaft
1/13/04	1930	S-14	Chassis, Electrical--	Reassembly of Horn shaft and button
3/18/04	1930	S-14	Chassis, Electrical--	Horn malfunction
3/18/04	1930	S-14	Chassis, Electrical--	Source of horn rebuilding
1/10/07	1909 -11	G - M	Clutch	Making clutch springs. Making shimmed friction plates. Type F fluid in clutch.
7/5/06	1910	G	Clutch	Multiplate clutch, type of oil. How to judge proper mix.
9/1/99	1919	S-9	Clutch	Clutch disc repair
8/21/05	1919	S-9	Clutch	Grabbing Clutch
8/21/05	1919	S-9	Clutch	friction lining end gap
8/21/05	1919	S-9	Clutch	Oiling clutch per S-9 manual
4/6/06	1919	S-9	Clutch	Advice on oiling(or non-oiling clutch); proper lining thickness
4/22/99	1921	S-9	Clutch	Clutch, won't release
4/22/99	1921	S-9	Clutch	Adjusting clutch
12/29/02	1922	S-10	Clutch	Freeing a stuck clutch
12/29/02	1922	S-10	Clutch	Suggestions to try to free stuck clutch
12/31/02	1922	S-10	Clutch	More ideas to free stuck clutch
12/21/02	1925	S-11	Clutch	When to balance fan
8/21/05	1926	S-11	Clutch	Grabbing Clutch
8/21/05	1926	S-11	Clutch	Pedal free play
8/21/05	1926	S-11	Clutch	Merchant & Evans Clutch
8/21/05	1926	S-11	Clutch	Driving procedure for minimizing grabby clutch
10/5/05	1926	S-11	Clutch	Clutch dragging
10/5/05	1926	S-11	Clutch	Difficulty engaging gear at stop
10/5/05	1926	S-11	Clutch	clutch spline, clean and lube
7/15/99	1927	S-11	Clutch	Clutch, hub to disc filler material
7/15/99	1927	S-11	Clutch	Source of filler disc
3/14/01	1927	S-11	Clutch	Clutch disc cracks
11/13/01	1927	S-11	Clutch	Clutch problems
9/1/02	1927	S-11	Clutch	Clutch fabric broken
9/1/02	1927	S-11	Clutch	Procedure for trans removal and installation
9/1/02	1927	S-11	Clutch	Proper clutch facing thickness
9/6/02	1927	S-11	Clutch	Transmission removal
8/19/04	1927	S-11	Clutch	Erratic clutch, OK cold, grinding shifts hot
8/19/04	1927	S-11	Clutch	Suggestions to trouble shoot clutch
3/10/06	1928 -34	S-12-19	Clutch	Clutch throwout bearing replacement a& part no.; careful install on >'30
6/26/06	1928 -32	S-12-18	Clutch	Clutch adjustment procdure
5/15/08	1928	S-12	Clutch	Balancing issues. Question/info. About fabric centers. Also thr-out bearing p/n's
6/28/08	1928	S-12	Clutch	Fitting NAPA N1728 throwout bearing. Sometimes they give you the wrong part
7/4/08	1928	S-12	Clutch	More on the NAPA N1728 throwout bearing mis-ID saga
12/3/08	1928	S-12	Clutch	What to do about flywheel clutch surface cracks.
1/20/09	1928	S-12B	Clutch	Source of repair/rebuild of clutch plate. Dealing with stress cracks on plate
4/14/09	1928	S-12	Clutch	Assembly and adjustment of clutch
9/2/06	1929	S-135	Clutch	Installing and adjusting clutch and throwout bearing/hub
10/18/08	1929	S-130	Clutch	Clutch release bearings'28/'29—'74 Toyota Land Cruiser p/n 90363-45079
7/17/03	1930 -34		Clutch	Use of lock washers to attach Clutch to flywheel
7/18/03	1930 -34		Clutch	Pilot bearing installation trick
7/18/03	1930 -34		Clutch	Fly wheel problems
7/18/03	1930 -34		Clutch	Resurfacing flywheel
7/18/03	1930 -34		Clutch	Inspect flywheel for cracks, corrective measure
7/18/03	1930 -34		Clutch	Balance flywheel
8/6/06	1930 -34	S-13-17	Clutch	Adjustment of clutch.
7/17/03	1931	S-15	Clutch	Pilot Bearing interchange '31-34?
9/20/07	1931	S-15	Clutch	Clutch dragging? Adjustments checks and limitations.

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
5/12/09	1933	Olympic	Clutch	Where to send you clutch for a proper rebuild, including throwout bearing
3/4/01	1905	A	Drive Train	Sprocket problems and ratios
4/27/02	1910	G	Drive Train	Drive shaft installation
4/27/02	1910	G	Drive Train	Odd drive shaft pin location on early cars
5/3/02	1910	G	Drive Train	Drive shaft
5/3/02	1910	G	Drive Train	Pin Orientation (U-joint cruciform orientation)
5/3/02	1910	G	Drive Train	Lubrication issues
9/4/03	1913	S-3	Drive Train	Comments on S-3 rear axle, seals and measurements
9/4/03	1913	S-3	Drive Train	Comments on deciding to disassemble axle
9/5/03	1913	S-3	Drive Train	Comments on S-3 rear axle, seals and measurements
9/5/03	1913	S-3	Drive Train	Comments on deciding to disassemble axle
3/12/02	1919	S-9	Drive Train	Rear axle felt retainer
3/12/02	1919	S-9	Drive Train	comment on modern lip seal
7/25/03	1919	S-9	Drive Train	Flex coupling between eng & trans
1/29/00	1922	S-10	Drive Train	u-joints
10/13/00	1922	S-10	Drive Train	Source of U-joints
7/9/03	1925		Drive Train	Clarification of rear axle parts interchangeability
4/11/04	1925	S-11	Drive Train	Engine and drive line swap from S-12A? Incl. Brakes
4/11/04	1925	S-11	Drive Train	Issues and problems
4/11/04	1925	S-11	Drive Train	Cited Smitty Week's S135 engine in S-10
7/28/01	1928	S-12	Drive Train	Modern U-joint replacement
7/28/01	1928	S-12	Drive Train	seal on driveshaft
7/28/01	1928	S-12	Drive Train	Trials of various seal materials
8/3/03	1928	S-12	Drive Train	Low rear axle ratio
1/18/00	1929		Drive Train	Removing rear brake drum
5/23/00	1929	S-13	Drive Train	Stuck bearing carrier
5/23/00	1929	S-13	Drive Train	suggestions for removing
7/5/03	1929	S-13	Drive Train	Broken spider gear in rear axle
7/5/03	1929	S-13	Drive Train	Interchangeable differential gears
12/29/03	1930	S-14	Drive Train	Replacing bearing and seals in Rear Axle
12/29/03	1930	S-14	Drive Train	Procedure for disassembly
12/29/03	1930	S-14	Drive Train	Use and preparation for modern seals
11/20/01	1931	S-15	Drive Train	Rear gears installation
10/24/02	1932	S-16	Drive Train	Leaking rear axle
10/24/02	1932	S-16	Drive Train	Modern pinions seal
10/24/02	1932	S-16	Drive Train	Installation procedure of modern pinion seal
10/24/02	1932	S-16	Drive Train	Tight seals require breather
7/9/03	1932	S-16	Drive Train	U-joint problems with Mechanics joints
2/1/03	Race Ca		Drive Train	Comments on durability of Franklin axles
4/27/07	1919	S-9B	Drive train, drive shaft	Proper U-joint alignment—dispite apparent mis-marking of alignment marks.
11/8/07	1928	S-12B	Drive Train, rear	Removing rear wh. Bearings. Proper reinstallation and adjustments.
5/23/09	1906 -21	G-S-9	Drive Train/Drive shaft	Alignment of Engine/clutch, jack shaft and transmission of early cars
3/15/10	1919 -34	S-1>>	Drive Train/Drive shaft	Trouble shooting a "clunk" in the drive train
4/24/09	1928	S-12	Drive Train/rear int. gea	Procedure to remove/install rear seals in rear axle
7/29/09	1928 -34	S-12>>	Drive Train/rear int. gea	Rear axle inner differential seals—modern replacements
5/20/06	1931	S-15	Drive Train/rear int. gears	Advice on high speed gears (rear axle)
5/9/09	1931	S15	Drive Train/rear int. gea	Installing rear axle hub seals. Proper replacement seals.
10/11/06	1929	S-130	Drive Train/rear int.gears	Installation and adjustments and clearances of bearing and shafts.
12/3/06	1931	S-15	Drive Train/rear int.gears	Mechanics U-joints(not rebuildable or avail), procedure to replace w modern Spicer
7/7/01	1905	A	Engine, Appearance	Cylinder color
7/7/01	1905	A	Engine, Appearance	Valve cage color
7/7/01	1905	A	Engine, Appearance	Cast iron Hi Temp paints
7/26/01	1925	S-11	Engine, Appearance	Fan Shroud color
7/8/01	1926	S-11	Engine, Appearance	Crankcase cracks
7/8/01	1926	S-11	Engine, Appearance	. . . Or pattern markings
7/28/01	1928	S-12	Engine, Appearance	Engine colors, discussion
9/11/03	1929	S-13	Engine, Appearance	Engine appearance
9/12/03	1929	S-13	Engine, Appearance	Engine appearance
7/4/06	1929	S-13	Engine, Appearance	Painting, plating and product recommendations for engine and compartment
7/11/06	1929	S-13	Engine, Appearance	Exhaust header paint, comments on paint and colors
4/26/08	1929	S-135	Engine, Appearance	Color of engine and firewall.
6/24/00	1930 -34	S-14-19	Engine, Appearance	Painting cylinders, sidedrafters
3/2/02	1930 -34		Engine, Appearance	Engine Paint scheme
6/29/05	1930 -34	S14 >	Engine, Appearance	Powder coating
6/29/05	1930 -34	S14 >	Engine, Appearance	Silver color for various engine components
6/29/05	1930 -34	S14 >	Engine, Appearance	Paint selection for various engine components
9/23/01	1931	S-15	Engine, Appearance	Comments on engine colors
2/7/01	1932	S-16	Engine, Appearance	Painting Manifolds, color
1/17/05	ALL Yrs		Engine, Appearance	Crankcase, refinishing inside
5/14/01	1902 -03	A	Engine, Bearings	Odd Main bearing configuration
7/7/01	1903	A	Engine, Bearings	Main bearing seizure (#5)
10/22/01	1903 -05	A	Engine, Bearings	Main bearing configuration

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
10/30/01	1903 -05	A	Engine, Bearings	Main bearing configuration
2/3/02	1903	A	Engine, Bearings	Main and rod bearings
2/3/02	1903	A	Engine, Bearings	Early car discrepancies
2/3/02	1903	A	Engine, Bearings	Lack of main bearing caps on #3 & #4 bearings
11/13/01	1913	S-3	Engine, Bearings	Bearings
11/13/01	1913	S-3	Engine, Bearings	Bronze backing with Babbitt
11/13/01	1913	S-3	Engine, Bearings	X-Grooves
11/13/01	1913	S-3	Engine, Bearings	Source of good Franklin Babbitt work
11/15/01	1913	S-3	Engine, Bearings	Rod bearing discussion
11/20/01	1913	S-3	Engine, Bearings	Piston issues
11/20/01	1913	S-3	Engine, Bearings	Bearings
11/21/01	1913	S-3	Engine, Bearings	Original bearing configuration
2/5/02	1913	S-3	Engine, Bearings	Rod bearing clearances
2/5/02	1913	S-3	Engine, Bearings	Clearance check procedure
2/5/02	1913	S-3	Engine, Bearings	Replacing main and rod bearings
2/5/02	1913	S-3	Engine, Bearings	Source of quality reBabbitt service
3/1/02	1913	S-3	Engine, Bearings	Main bearing dimensions
3/1/02	1913	S-3	Engine, Bearings	Bearing inserts (bronze)
12/21/02	1913	S-3	Engine, Bearings	Main Bearing cap nut keepers
12/21/02	1913	S-3	Engine, Bearings	Suggest for lining up nuts' rotation and torque
6/12/02	1917	S-9	Engine, Bearings	Connecting rod side play
6/12/02	1917	S-9	Engine, Bearings	Rod side play 0.010 max
6/12/02	1917	S-9	Engine, Bearings	Side play: inspect rod bearing dimensions and rod twist or bent
9/1/02	1917	S-9	Engine, Bearings	Torque specs for rods
5/14/05	1919	S-9	Engine, Bearings	Connecting Rod Bearings
5/14/05	1919	S-9	Engine, Bearings	Con Rod bearings not available for S9 engines
5/14/05	1919	S-9	Engine, Bearings	Direct casting of con rod bearings
4/1/02	1923	S-10	Engine, Bearings	Rod oil squirt hole location
4/7/02	1925	S-11	Engine, Bearings	Engine Bearings
5/3/02	1925	S-11	Engine, Bearings	Rebabbiting rods
5/3/02	1925	S-11	Engine, Bearings	Rebabbiting rods
10/18/02	1925	S-10	Engine, Bearings	Appearance of Babbitt bearings
10/18/02	1925	S-10	Engine, Bearings	Discussion of S10-11 bearing problems
10/18/02	1925	S-10	Engine, Bearings	Max clearance specs
10/18/02	1925	S-10	Engine, Bearings	Healthy bearing appearance
12/9/04	1925	S-11	Engine, Bearings	Rod Bearings, advice on reusing and clearances
3/15/99	1926	S-11	Engine, Bearings	Engine Bearings
3/15/99	1926	S-11	Engine, Bearings	Rod bearings
3/15/99	1926	S-11	Engine, Bearings	Poured Babbitt
3/15/99	1926	S-11	Engine, Bearings	Problems with Aluminum rods, babbiting
3/14/01	1927	S-11	Engine, Bearings	Engine rebuild, pistons
3/21/01	1927	S-11	Engine, Bearings	Bearing, Babbitt vs inserts
3/21/01	1927	S-11	Engine, Bearings	Source of Rod bolts
3/21/01	1927	S-11	Engine, Bearings	Source of Inserts
5/9/01	1927	S-11	Engine, Bearings	Fr & Rear bearing seals
11/30/02	1927	S-11	Engine, Bearings	Engine bearing problems
12/3/02	1927	S-11	Engine, Bearings	Comments on bearing inserts
12/21/02	1927	S-11	Engine, Bearings	Comments on side bearing clearances
1/6/04	1927	S-11	Engine, Bearings	Main Bearing clearances & torques
1/6/04	1927	S-11	Engine, Bearings	Rod Bearing Clearances & Torques
1/8/04	1927	S-11	Engine, Bearings	Main bearings
1/8/04	1927	S-11	Engine, Bearings	Engine "rumble", various causes
1/8/04	1927	S-11	Engine, Bearings	Procedure for checking and setting bearing clearance
3/21/01	1928	S-12	Engine, Bearings	Bearing inserts
8/27/08	1928	S-12B	Engine, Bearings	Discussion of bearing/journal condition. Types of replacements of rod bearings
9/24/08	1928	S-12B	Engine, Bearings	Comments on S-12 bearing construction and proper rebuild tips
4/30/04	1929	S-13	Engine, Bearings	Recommended rod bearings
3/16/08	1929	S-130	Engine, Bearings	Adjusting rear reverse acme thread seal after rebuild and line boring.
3/17/08	1929	S-12->	Engine, Bearings	Tom answers question about bearing location and "crush"
3/20/08	1929	S-130	Engine, Bearings	Tom answers question about bearing location and "crush"
3/20/08	1929	S-130	Engine, Bearings	Setting up big end con rod bolts, washers and cotter pins
1/20/03	1930	S-14	Engine, Bearings	Source of babbiting bearings
1/20/03	1930	S-14	Engine, Bearings	Oil Grooves
8/25/00	1931	S-15	Engine, Bearings	Main bearings, ID markings?
8/25/00	1931	S-15	Engine, Bearings	Procedure for sorting and fitting bearings
2/4/01	1931	S-15	Engine, Bearings	Main bearing clearances
2/4/01	1931	S-15	Engine, Bearings	Use of tapered shims
12/18/99	1932	S-16	Engine, Bearings	Babbiting aluminum rods
12/18/99	1932	S-16	Engine, Bearings	Procedure to Babbitt aluminum
12/18/99	1932	S-16	Engine, Bearings	Tinning bearing surfaces
12/18/99	1932	S-16	Engine, Bearings	Centrifugal casting of Babbitt
3/8/03	1932	S-16	Engine, Bearings	Front thrust bearing clearance

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
9/22/04	1933	S-18	Engine, Bearings	Proper crush on Toyota insert bearings
4/12/99	1934	S-18	Engine, Bearings	Main Bearings, rod bearings
4/12/99	1934	S-18	Engine, Bearings	Steel rods vs Aluminum Rods
4/12/99	1934	S-18	Engine, Bearings	Toyota land cruiser inserts, part nos.
2/27/06	ALL Yrs	ALL	Engine, Bearings	Hand scraping/fitting babbit bearings
6/5/06	1912	S-14-16	Engine, Camshaft	Measuring & confirming cam timing and flywheel marks; lobe separation
11/7/07	1917	S-9A	Engine, camshaft	Thrust wear and corrections.
11/22/08	1926	S-11	Engine, camshaft	Are S-11 and S-10 camshafts interchangeable ?
3/18/10	1919 34	S-19 >>	Engine, Camshaft/timing	Installing modern seals around crank/cam gears cover. Centering the fan
12/7/09	1930	S-14 >>	Engine, Camshaft/timing	Advice on troubleshooting setting up & restarting after timing gears removed
6/15/09	1916 -22	S-9	Engine, Cooling	Make sure all lower cooling shrouds are tight, especially around steering box
3/18/10	1919 34	S-19 >>	Engine, Cooling	Centering the fan
6/27/99	1921	S-9	Engine, Cooling	overheating
6/27/99	1921	S-9	Engine, Cooling	Flywheel guard, cooling
6/27/99	1921	S-9	Engine, Cooling	exhaust pipe insulation
6/27/99	1921	S-9	Engine, Cooling	Tune engine
6/27/99	1921	S-9	Engine, Cooling	Air leaks in suction cooling system
12/21/02	1925	S-11	Engine, Cooling	Balancing Cooling fan
1/2/08	1928	S-12A	Engine, cooling	Method of balancing front blower on the car(engine running). Some cautions.
1/6/08	1928	S-12A	Engine, cooling	Technique and tools for removing front fan blower nut and blower. Install new rubber
1/22/07	1929	S-130	Engine, cooling	How copper fins were made/installed on cast iron cylinders.
1/20/03	1930	S-14	Engine, Cooling	Cooling Fan Balancing after disk replacement
1/20/03	1930	S-14	Engine, Cooling	Source of fan hub rings
3/10/05	1930	S-14	Engine, Cooling	Cooling fan removal, procedure
5/30/05	1930 -34	S14 >	Engine, Cooling	Engine fans, side draft
6/2/05	1930	S14 >	Engine, Cooling	Engine baffles
6/2/05	1930	S14 >	Engine, Cooling	Baffles, how they work
6/2/05	1930	S14 >	Engine, Cooling	Baffles, effect on cylinder shape
6/2/05	1930	S14 >	Engine, Cooling	Baffles, control blow by and skirt temperature
6/29/05	1930 -34	S14 >	Engine, Cooling	Engine baffles
8/20/05	1930	S-14	Engine, Cooling	Right side engine shroud
11/1/98	1932	S-16	Engine, Cooling	Does '32 run hotter than '31?
11/1/98	1932	S-16	Engine, Cooling	Things to look at if engine runs hot
9/11/02	1934	S-19	Engine, Cooling	Removing Cooling Fan, loosen nut
9/11/02	1934	S-19	Engine, Cooling	Installing cooling fan, tighten nut
10/15/09	ALL		Engine, Cooling	Possible consequences of suddenly shutting off a very hot engine after long pull
4/17/00	1903	A	Engine, Crankshaft	crankshaft, twisted
4/17/00	1903	A	Engine, Crankshaft	Discussion of twist problem and various corrective actions
1/7/03	1903	A	Engine, Crankshaft	Bent Crankshaft
1/9/03	1903	A	Engine, Crankshaft	Commercial method to straighten bent Cr.Shaft
1/11/03	1903	A	Engine, Crankshaft	Bent Crankshaft
3/1/02	1913	S-3	Engine, Crankshaft	Crank grinding
3/1/02	1913	S-3	Engine, Crankshaft	Heat treating (surface hardening)
5/14/05	1919	S-9	Engine, Crankshaft	Crank Diameter measurements—OK
4/7/02	1925	S-11	Engine, Crankshaft	Setting up crankshaft end play on early big cars
12/9/04	1925	S-11	Engine, Crankshaft	Advice on regrinding crank
1/20/03	1930	S-14	Engine, Crankshaft	Shims between front crankshaft and sprocket
7/17/03	1930 -34		Engine, Crankshaft	Thrust Washer and shims for cam drive sprocket
5/30/05	1930 -34	S14 >	Engine, Crankshaft	Hand crank clutch, procedure for removal
5/30/05	1930 -34	S14 >	Engine, Crankshaft	Fan and hub condition inspection
5/30/05	1930 -34	S14 >	Engine, Crankshaft	replace fabric discs
9/8/99	1933	S-18	Engine, Crankshaft	Engine oil leak
9/8/99	1933	S-18	Engine, Crankshaft	Front crankshaft seal, modern
9/8/99	1933	S-18	Engine, Crankshaft	Speedi-sleeve or hub repair sleeve for Chevy 454
5/14/01	1912	S-1 G	Engine, Electrical	Installing a modern starter
7/9/06	1913	S-3	Engine, Electrical	Armature wiring coatings. Glyptol electrical paint. Also used to coat inside of crankcase.
8/31/06	1919	S-9B	Engine, Electrical	Dyneto starter/gen wiring problem (not solved at this date)
7/14/08	1919	S-9	Engine, electrical	Discussion of a possibly mis-aligned oiler in S9 Starter-Generator
3/13/03	1922	S-10	Engine, Electrical	Starter Switch
3/13/03	1922	S-10	Engine, Electrical	Possible modern sources
3/10/04	1924	S-10	Engine, Electrical	Engine oil leaks around generator when parked
3/10/04	1924	S-10	Engine, Electrical	Description of proper generator gasket placement
3/10/04	1924	S-10	Engine, Electrical	Trouble shooting leaks around generator
10/21/04	1925	S-11	Engine, Electrical	Replacing generator with newer model
10/21/04	1925	S-11	Engine, Electrical	Polarizing the generator
7/8/01	1928	S-12	Engine, Electrical	Generator Description
7/8/01	1928	S-12	Engine, Electrical	Generator problems
7/28/01	1928	S-12	Engine, Electrical	Generator Output, Amps
7/28/01	1928	S-12	Engine, Electrical	Generator Output, Amps
2/7/10	1928	S-12	Engine, Electrical	Clarification of wiring from dash to two fuse blocks. Sources of good diagrams.
3/8/99	1930	S-14	Engine, Electrical	Procedure for removing Starter
3/8/99	1930	S-14	Engine, Electrical	Armatures, rewind

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
3/8/99	1930	S-14	Engine, Electrical	Field coils and brushes available
9/27/04	1930	S-14	Engine, Electrical	Description of operation of current limit relay
6/26/06	1930	S-14	Engine, Electrical	Starter Bendix Bolts, Source of bolts, bolt length
11/15/01	1931	S-15	Engine, Electrical	Starter
11/15/01	1931	S-15	Engine, Electrical	Troubleshooting starter problems
7/27/04	1931	S-15	Engine, Electrical	Generator cutout malfunction
7/27/04	1931	S-15	Engine, Electrical	Source of replacement cutout
7/27/04	1931	S-15	Engine, Electrical	May be other Generator problems
11/23/04	1932	S-16	Engine, Electrical	Startex (Automatic restart feature), wiring and operation description
11/23/04	1932	S-16	Engine, Electrical	Using a modern starter solenoid
5/20/06	1932	S-16	Engine, Electrical	Replacement Ignition Switch for S-153 (& others)—looks original!
7/27/04	1933	S-18	Engine, Electrical	Charging problems, troubleshooting
8/19/03			Engine, Electrical	Starter problem
8/24/02	1919	S-9	Engine, Exhaust	Exhaust crossover pipe(for heating intake)
7/23/03	1927	S-11	Engine, Exhaust	Exhaust Manifold warped flange
7/23/03	1927	S-11	Engine, Exhaust	Experiment with "Pyro-putty"
1/10/07	1929	S-130	Engine, exhaust	Sources and strategies for exhaust pipes and mufflers
8/7/08	1929	S-130	Engine, exhaust	Sources of original type strap for exhaust above rear axle
7/13/02	1930	S-14	Engine, Exhaust	Replacing gaskets on exhaust manifold
7/13/02	1930	S-14	Engine, Exhaust	Use Key Graphite Paste
7/13/02	1930	S-14	Engine, Exhaust	Sources of Key Graphite past
11/20/01	1931	S-15	Engine, Exhaust	Maintaining tight exhaust system
3/20/03	1933		Engine, Exhaust	Comment on heli-coils for exhaust head stud
3/20/03	1933		Engine, Exhaust	Comments on gaskets and sealants
8/27/03			Engine, Exhaust	Pyro putty for exhaust manifold repairs
8/27/03			Engine, Exhaust	Details of generally successful experience
8/27/03			Engine, Exhaust	Source of Pyro Putt y
11/15/03	1910 -13	H	Engine, Fuel	Mixture anomalies on brass era Franklins
7/30/99	1912 -29	S-1--13	Engine, Fuel	Vacuum tank comments, fuel system
5/17/99	1913	S-3	Engine, Fuel	Fuel heat (vaporization) problems
5/17/99	1913	S-3	Engine, Fuel	cold box for carb
11/25/02	1913	S-3	Engine, Fuel	Vacuum pump
11/25/02	1913	S-3	Engine, Fuel	Gas Tank cleaning
5/26/03	1913	S-3	Engine, Fuel	Getting hot air for intake preheat
9/20/03	1914	S-6	Engine, Fuel	Fuel restriction problems
11/18/03	1915	S-7	Engine, Fuel	More on primer cup opening experiment
11/18/03	1915	S-7	Engine, Fuel	done under load
11/18/03	1915	S-7	Engine, Fuel	Discussion of fuel system, Gas tank pressure
11/18/03	1915	S-7	Engine, Fuel	Operation of tank pressure pump and valve
10/22/01	1919	S-9	Engine, Fuel	Hard Starting, flooding
1/5/02	1919	S-9	Engine, Fuel	Starting problems
1/5/02	1919	S-9	Engine, Fuel	Vacuum tank
7/25/03	1919	S-9	Engine, Fuel	Gas tank problems
7/25/03	1919	S-9	Engine, Fuel	Tank linings and source
1/29/00	1922	S-10	Engine, Fuel	vacuum tank
1/29/00	1922	S-10	Engine, Fuel	engine pans, remove
3/20/00	1922	S-10	Engine, Fuel	Glass Sediment bowl
7/1/00	1925	S-11	Engine, Fuel	Hard starting
7/1/00	1925	S-11	Engine, Fuel	Hard hot starting
7/1/00	1925	S-11	Engine, Fuel	Procedure for troubleshooting
10/21/04	1925	S-11	Engine, Fuel	Vapor Lock
11/7/05	1926	S-11	Engine, Fuel	Vacuum Tank
11/7/05	1926	S-11	Engine, Fuel	Exhaust Plugging
11/29/05	1926	S-11	Engine, Fuel	Vacuum Tank
11/29/05	1926	S-11	Engine, Fuel	Exhaust Plugging
3/20/07	1926	S-11	Engine, fuel	Vacuum tnk rebuilder
11/25/02	1927	S-11	Engine, Fuel	Air filter on OE-2 carburetor
11/25/02	1927	S-11	Engine, Fuel	Modern Air filter on OE-2 carburetor
8/3/05	1927	S-11	Engine, Fuel	Vacuum Tank
8/3/05	1927	S-11	Engine, Fuel	Fuel system cleaning
8/3/05	1927	S-11	Engine, Fuel	Vacuum lines function
8/3/05	1927	S-11	Engine, Fuel	Gascolator
8/3/05	1927	S-11	Engine, Fuel	Reserve fuel function
8/3/05	1927	S-11	Engine, Fuel	Vacuum tank functional description
7/31/99	1928	S-12	Engine, Fuel	Worn fuel line
7/31/99	1928	S-12	Engine, Fuel	Fuel system, leaks around tank selector
7/25/03	1928	S-12	Engine, Fuel	Poor performance
3/25/05	1928	S-12	Engine, Fuel	Electric fuel pump
3/25/05	1928	S-12	Engine, Fuel	Installing an electric pump.
10/7/05	1928	S-12	Engine, Fuel	Fuel Starvation
10/7/05	1928	S-12	Engine, Fuel	Vacuum leaks
10/7/05	1928	S-12	Engine, Fuel	leaks at fuel reserve valve

Date	Year	Series	General category:	Key Words
	XXX		<<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
10/7/05	1928	S-12	Engine, Fuel	Vacuum Tank intake fitting orifice
10/7/05	1928	S-12	Engine, Fuel	Running too lean, consequences
3/21/06	1928	S-12	Engine, Fuel	Gasoline for various Franklins (Ethanol or Reg), Vac Tank vs fuel pump
4/26/09	1929	S-13	Engine, Fuel	Discussion & details of old components and some modern replacement items
2/5/02	1930 -34		Engine, Fuel	Carbon on pistons
9/25/05	1930	S-14	Engine, Fuel	Fuel Pump Push Rod
9/25/05	1930	S-14	Engine, Fuel	Fuel pump push rod length
9/25/05	1930	S-14	Engine, Fuel	Effects of gaskets on fuel pump pressure
9/25/05	1930	S-14	Engine, Fuel	Cam Lobe Wear
8/24/00	1931 -32	S-15-16	Engine, Fuel	AC fuel pump rebuild kit
7/17/03	1931	S-15	Engine, Fuel	Proper gasoline?
1/16/08	1931	S-153	Engine, fuel	Dimensional details of fuel pump push rod. Material &/or sources.
8/20/04	1932	S-16	Engine, Fuel	Erratic fuel pressure, vapor lock?
9/13/07	1932	S-16	Engine, Fuel	Fuel pump doesn't pump. Test for leaks with vacuum pump (Safe way!)
1/28/09	1932	S-16	Engine, Fuel	Is it worth intake port polishing on Franklin?
5/16/00	1933	S-16	Engine, Fuel	types of electric fuel pumps
5/16/00	1933	S-16	Engine, Fuel	how to plumb elect fuel pump with mech.
5/16/00	1933	S-16	Engine, Fuel	Electric fuel pump
2/13/03	1933	S-18	Engine, Fuel	Missing fuel pump hand lever
2/13/03	1933	S-18	Engine, Fuel	Don't blame the carb until other things check
8/24/05	1933	S-18	Engine, Fuel	electric fuel pump connections
9/8/07	1933	S-18A	Engine, fuel	Fuel pump wont pump. (Primed, worked) Possible check valve seating?
9/7/99	1908 -10	G	Engine, Fuel	Intake/cooling system interference
9/7/99	1908 -10	G	Engine, Fuel	manifold heater, valve
12/13/07	ALL Yrs	ALL	Engine, fuel	Grateful acknowledgement of fuel pump rebuild (tough problem) to a rebuilder.
2/24/04			Engine, Fuel	Sources of Vac Tank recond and parts
2/24/04			Engine, Fuel	Vacuum Tank reconditioning
5/27/04	1911	G	Engine, Fuel Carburetor	Old carburetor, earlier?
5/27/04	1911	G	Engine, Fuel Carburetor	Float weights for correct carb
10/22/01	1919	S-9	Engine, Fuel Carburetor	Float level
10/22/01	1919	S-9	Engine, Fuel Carburetor	Carb Settings
1/5/02	1919	S-9	Engine, Fuel Carburetor	S-9B Carburetor issues
3/14/02	1919	S-9	Engine, Fuel Carburetor	U-2 Stromberg Carburetor
3/14/02	1919	S-9	Engine, Fuel Carburetor	Source of newly made U-2's
4/5/99	1921	S-9	Engine, Fuel Carburetor	Carburetor
4/5/99	1921	S-9	Engine, Fuel Carburetor	Setting float
4/5/99	1921	S-9	Engine, Fuel Carburetor	worn and pitted float valve
4/5/99	1921	S-9	Engine, Fuel Carburetor	Float valve seat
3/20/00	1922	S-10	Engine, Fuel Carburetor	Cleaning & adjusting OE-1 Carburetor
4/6/06	1922 -27	S-10-11	Engine, Fuel Carburetor	Maintainannde advice & cleaning Stromberg OE-1 Carbs & vacuum tanks
4/26/08	1924 -27	S10-11	Engine, Fuel Carburetor	Sources of OE-1 carb gaskets and other parts
5/19/04	1925	S-11	Engine, Fuel Carburetor	OE-1 Carb Float adjustment
11/24/04	1925	S-11	Engine, Fuel Carburetor	Dripping carburetor
11/24/04	1925	S-11	Engine, Fuel Carburetor	Float chamber, needle and seat
11/24/04	1925	S-11	Engine, Fuel Carburetor	Procedure for MACHINING needle and seat
11/24/04	1925	S-11	Engine, Fuel Carburetor	Gross jet?
11/24/04	1925	S-11	Engine, Fuel Carburetor	Viton needles
6/30/04	1926	S-11	Engine, Fuel Carburetor	Source of carb kit for OE-1
6/30/04	1926	S-11	Engine, Fuel Carburetor	Disassembly problems
2/9/05	1926	S-11	Engine, Fuel Carburetor	OE-1 Carburetor leaking
2/9/05	1926	S-11	Engine, Fuel Carburetor	Fuel accumulation in intake manifold
11/7/05	1926	S-11	Engine, Fuel Carburetor	Carburetor Dirt
11/29/05	1926	S-11	Engine, Fuel Carburetor	Carburetor Dirt
8/3/05	1927	S-11	Engine, Fuel Carburetor	Updraft carburetor rebuilding
8/3/05	1927	S-11	Engine, Fuel Carburetor	Carburetor
8/3/05	1927	S-11	Engine, Fuel Carburetor	Updraft carburetor rebuilders
10/26/00	1928	S-12	Engine, Fuel Carburetor	What carb is appropriate?
7/28/01	1928	S-12	Engine, Fuel Carburetor	Fuel System problems, Carb & vacuum Tank
11/1/02	1928	S-12	Engine, Fuel Carburetor	T-2 Stromberg Carb., Specs
11/1/02	1928	S-12	Engine, Fuel Carburetor	Source of specs and literature
11/25/02	1928	S-12	Engine, Fuel Carburetor	T-2 Carburetor
11/25/02	1928	S-12	Engine, Fuel Carburetor	T-2 Breakage problems
11/25/02	1928	S-12	Engine, Fuel Carburetor	Substituting O-3 for T-2, not good, too big
7/12/03	1928	S-12	Engine, Fuel Carburetor	U2 carb on S-12, poor performance
7/12/03	1928	S-12	Engine, Fuel Carburetor	Discussion of carb interchange details
7/25/03	1928	S-12	Engine, Fuel Carburetor	U-2 Carb Details
7/25/03	1928	S-12	Engine, Fuel Carburetor	Float level check & setting procedure
7/25/03	1928	S-12	Engine, Fuel Carburetor	Carb mis-match, larger U-2
12/24/04	1928 -29	S-12B-	Engine, Fuel Carburetor	Carter BB1 replaces what?
12/24/04	1928 -29	S-12B-	Engine, Fuel Carburetor	Pay attention to flange stud spacing
10/7/05	1928	S-12	Engine, Fuel Carburetor	Adjusting carburetor
2/10/07	1928	S-12B	Engine, Fuel Carburetor	Comments on failed die casting

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
5/3/07	1928	S-12B	Engine, Fuel Carburetor	Run rich, tailpipe water drip. Symptoms to look for diciding on mere adjustment or
1/1/10	1928	S-12	Engine, Fuel Carburetor	Pot metal problems. Discussion of various substitutes.
2/7/10	1928	S-12	Engine, Fuel Carburetor	Pot metal carburetor problem. Use of Carter BB-1 as a replacement.
8/29/03	1929	S-13	Engine, Fuel Carburetor	T-2 Carb problems
12/29/04	1929	S-13	Engine, Fuel Carburetor	Replacement Carb Problems
12/29/04	1929	S-13	Engine, Fuel Carburetor	Schebler UXS-26
12/29/04	1929	S-13	Engine, Fuel Carburetor	Loads up during idle
12/29/04	1929	S-13	Engine, Fuel Carburetor	Some standard advice on adjusting Marvel-Schebler
2/21/02	1930 -34		Engine, Fuel Carburetor	Mixture adjustments on Carbon
2/21/02	1930 -34		Engine, Fuel Carburetor	Mixture adjustments on cooling
2/19/04	1930	S-14	Engine, Fuel Carburetor	Carburator gaskets
2/19/04	1930	S-14	Engine, Fuel Carburetor	Gaskets around plugs and fittings
3/19/04	1930	S-14	Engine, Fuel Carburetor	Crack in carburetor body
3/19/04	1930	S-14	Engine, Fuel Carburetor	Experiences in restoring function to old U-3 Carb
3/19/04	1930	S-14	Engine, Fuel Carburetor	ACN Carburetor article
10/28/05	1930	S-14	Engine, Fuel Carburetor	U-3 Carb
10/28/05	1930	S-14	Engine, Fuel Carburetor	Carburetor Body Crack
5/5/07	1930	S-145	Engine, Fuel Carburetor	Stromberg UX-3 is not a good substitute for a U-3.
1/22/08	1930	S-145	Engine, Fuel Carburetor	Solvents for cleaning carb. Recommendation to prevent inside corrosion from modern gas.
4/3/08	1930	S-145	Engine, Fuel Carburetor	Strom.U3 damaged float seat. Setting float level (rules for mech, electr, alcohol)
11/10/09	1930	S-14 >>	Engine, Fuel Carburetor	Troubleshooting vapor lock or similar symptom
5/20/06	1931	S-15	Engine, Fuel Carburetor	Source of Carb rebuild (gaskets etc) kit
3/5/07	1931	S-153	Engine, Fuel Carburetor	Rebuilding Stromberg U3. Discusion of Fuemer. Interesting but don't hook it up.
12/10/99	1932	S-16	Engine, Fuel Carburetor	Venturi, pot metal expansion
12/10/99	1932	S-16	Engine, Fuel Carburetor	Source of venturi information
5/2/03	1932	S-16	Engine, Fuel Carburetor	U-3 Carb, new needle and seat
5/2/03	1932	S-16	Engine, Fuel Carburetor	Modern replacements of U-3 needle and seat
5/2/03	1932	S-16	Engine, Fuel Carburetor	Special fitting instructions for modern needle and seat
11/23/04	1932	S-16	Engine, Fuel Carburetor	Drawing for U-3 Venturi?
2/13/03	1933	S-18	Engine, Fuel Carburetor	Replacement carburetor
10/27/07		Misc.	Engine, Fuel Carburetor	1931 Buick/Marvel TD-2S Carburetor, adjustments procedure.
2/14/01	1903	A	Engine, Ignition	Timing
8/27/09	1906	G	Engine, Ignition	Servicing a modified Pittfield timer.
8/5/03	1913	S-3	Engine, Ignition	Ignition timing
10/24/07	1913	S-3	Engine, ignition	Discussion and pictures of spark plug wire routing.
4/1/06	1916	S-9	Engine, Ignition	Ignition wiring differences in S-9s and other earlier models
5/17/03	1917	S-9	Engine, Ignition	Where to get ignition points for S-9
5/28/04	1917	S-9	Engine, Ignition	Coil data for early A-K box coil
9/23/06	1919	S-9B	Engine, Ignition	Atwater Kent Open circuit "clicker" distributor.
4/13/99	1921	S-9	Engine, Ignition	Ignition Points
4/13/99	1921	S-9	Engine, Ignition	Atwater Kent Unisparker
4/13/99	1921	S-9	Engine, Ignition	Wear in Unisparker
4/13/99	1921	S-9	Engine, Ignition	Adjusting Unisparker
1/29/00	1922	S-10	Engine, Ignition	ignition, condenser
5/29/03	1923	S-10	Engine, Ignition	Need ignition parts
5/29/03	1923	S-10	Engine, Ignition	Spark plugs, coil, condenser, points
10/22/01	1924	S-10	Engine, Ignition	AK Distributor
10/22/01	1924	S-10	Engine, Ignition	Adapting modern points, condenser
10/22/01	1924	S-10	Engine, Ignition	AK Distributor
10/22/01	1924	S-10	Engine, Ignition	Mods & repair of center carbon contact
4/26/05	1924	S-10	Engine, Ignition	Distributors, Atwater/Kent
4/26/05	1924	S-10	Engine, Ignition	Inspection procedure
4/26/05	1924	S-10	Engine, Ignition	Condenser replacement
1/20/04	1925	S-10	Engine, Ignition	Ignition tune up parts
1/20/04	1925	S-10	Engine, Ignition	Sources of original parts
1/20/04	1925	S-10	Engine, Ignition	Sources of coils and spark plugs
3/30/04	1925	S-11	Engine, Ignition	Ignition parts source
10/21/04	1925	S-11	Engine, Ignition	Problem with distributor cap
12/1/04	1925	S-11	Engine, Ignition	Points & Plugs
1/13/01	1926	S-11	Engine, Ignition	Comments on converting to Delco
1/28/03	1926	S-11	Engine, Ignition	Atwater Kent Coil
1/28/03	1926	S-11	Engine, Ignition	Inserting a smaller modern 6V coil
1/28/03	1926	S-11	Engine, Ignition	Inserting a smaller modern 6V coil
1/28/03	1926	S-11	Engine, Ignition	Mount coil under dash
3/21/00	1928	S-12	Engine, Ignition	Make sure cylinders are correct (i.e.. S130 may have been substituted
3/21/01	1928	S-12	Engine, Ignition	spark plug wires, removing & installing
5/1/01	1928	S-12	Engine, Ignition	High voltage ignition cross firing
5/1/01	1928	S-12	Engine, Ignition	Spark plug wire tube
5/1/01	1928	S-12	Engine, Ignition	Wire quality
5/1/01	1928	S-12	Engine, Ignition	Relatively low secondary voltage
4/21/03	1928	S-12	Engine, Ignition	Points for Delco Distributors
7/25/03	1928	S-12	Engine, Ignition	Centrifugal advance

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>	
9/22/05	1928	S-12	Engine, Ignition	Timing with a timing light
9/22/05	1928	S-12	Engine, Ignition	Procedure with timing light
10/7/05	1928	S-12	Engine, Ignition	Timing
10/7/05	1928	S-12	Engine, Ignition	Procedure without mark
2/10/07	1928	S-12B	Engine, ignition	Replacing original NE die cast distributor with GM Delco. Some machining requ.
2/13/07	1928	S-12	Engine, ignition	Delco Distributer: Article(CAN 7-92), drawing, description, installation details
2/13/07	1928 -34	S-12-17	Engine, ignition	Delco Distributer: Article(CAN 7-92), drawing, description, installation details
5/3/07	1928	S-12B	Engine, ignition	Concerns about shaft free play & pot metal body. Preserving/extending pot metal life.
6/9/06	1929	S-130	Engine, Ignition	Delco Point Gap(0.020"); Firing Order; Static & Timing light Procedure
1/5/10	1929	S-13	Engine, Ignition	Proper valve clearances(0.010-0.010), spark plug gap(0.025) & points gap(0.020)
11/10/97	1930	S-14	Engine, Ignition	Ignition
11/10/97	1930	S-14	Engine, Ignition	Distributor
11/10/97	1930	S-14	Engine, Ignition	Wear issues
11/10/97	1930	S-14	Engine, Ignition	Interchangeability of Chev/Delco Remy parts that fit Franklin
9/6/02	1930	S-14	Engine, Ignition	Distributor advance specifications
9/6/02	1930	S-14	Engine, Ignition	It doesn't to modify distr specs on stock engine
9/11/02	1930	S-14	Engine, Ignition	Distributor advance specifications
8/24/00	1931 -32	S-15-16	Engine, Ignition	Spark plug extending tubes
11/20/01	1931	S-15	Engine, Ignition	Distributor fitting
8/2/03	1932	S-16	Engine, Ignition	Effect of bad ignition timing
6/22/06	1932	S-16	Engine, Ignition	Spark plug wiring ends, difficult to find, functional replacement
10/3/04	1933		Engine, Ignition	Ignition parts for '29 thru side drafters
10/3/04	1933		Engine, Ignition	Some problems with "original" caps
8/24/05	1933	S-18	Engine, Ignition	ignition connections
1/17/08	ALL Yrs	ALL	Engine, ignition	Sources of proper looking high tension wiring and wire ends.
5/28/04			Engine, Ignition	Source for early coil repair
5/28/04			Engine, Ignition	Out board motor, A-K ignition system
5/28/04			Engine, Ignition	Early type coil problems
4/6/06	1912	S-1	Engine, Ignition Magneto	Clearances of S-1-2-3 drive shaft and advice
6/14/06	1913	S-3	Engine, Ignition Magneto	Point setting for Bosch Magneto
5/14/03	1914	S-6	Engine, Ignition Magneto	Magneto bushing Bearing
5/14/03	1914	S-6	Engine, Ignition Magneto	Lube fitting
5/14/03	1914	S-6	Engine, Ignition Magneto	Bearing clearance
5/20/03	1914	S-6	Engine, Ignition Magneto	Pinning the Mag shaft bushing
5/20/03	1914	S-6	Engine, Ignition Magneto	Tapered holes, how to
7/23/03			Engine, Ignition Magneto	Eisemann Magneto, point gap
7/21/07	1933	S-17	Engine, lubrication	No oil pressure on cranking engine. Oiling during assembly, pump clearances etc.
2/14/01	1903	A	Engine, Mechanical	Compression problems
2/14/01	1903	A	Engine, Mechanical	Trouble shooting intake leaks
2/14/01	1903	A	Engine, Mechanical	Pressure testing for leaks
7/7/01	1903	A	Engine, Mechanical	Ring gaps and piston clearances
7/7/01	1903	A	Engine, Mechanical	Seizing Problems
7/26/04	1904	A	Engine, Mechanical	Engine knock, loose cam
7/26/04	1904	A	Engine, Mechanical	Comments on flywheel removal
7/26/04	1904	A	Engine, Mechanical	Possible tightening cam keys without disassembly
3/4/01	1905	A	Engine, Mechanical	Cylinder problems
3/4/01	1905	A	Engine, Mechanical	Piston skirt clearances
3/4/01	1905	A	Engine, Mechanical	Piston Diameter Step
3/4/01	1905	A	Engine, Mechanical	Source of pistons
5/14/04	1911	G	Engine, Mechanical	Iron piston clearances
5/27/04	1911	G	Engine, Mechanical	Top taper wear in cylinder
5/27/04	1911	G	Engine, Mechanical	Source of Pistons
6/30/02	1912	S-2	Engine, Mechanical	Firing Order
6/30/02	1912	S-2	Engine, Mechanical	Cylinder "pairing" on Franklin 6's
1/23/99	1913	S-3	Engine, Mechanical	Cylinder details
1/28/00	1913	S-3	Engine, Mechanical	ring gap
1/28/00	1913	S-3	Engine, Mechanical	intake gaskets
1/28/00	1913	S-3	Engine, Mechanical	primer cup plug
3/20/00	1913	S-3	Engine, Mechanical	Cylinder cracking
3/20/00	1913	S-3	Engine, Mechanical	Clearances and cylinder taper
11/10/01	1913	S-3	Engine, Mechanical	Pistons
11/10/01	1913	S-3	Engine, Mechanical	Piston dimensions
11/10/01	1913	S-3	Engine, Mechanical	Honing problems
11/13/01	1913	S-3	Engine, Mechanical	Pistons
11/13/01	1913	S-3	Engine, Mechanical	Piston dimensions
11/15/01	1913	S-3	Engine, Mechanical	Pistons
11/21/01	1913	S-3	Engine, Mechanical	Pistons
2/5/02	1913	S-3	Engine, Mechanical	Torquing procedure
2/5/02	1913	S-3	Engine, Mechanical	Use of lock washers vs safety wire
2/5/02	1913	S-3	Engine, Mechanical	Reusing shims
2/5/02	1913	S-3	Engine, Mechanical	Proper use or non-use of shims
2/5/02	1913	S-3	Engine, Mechanical	Distributor-Oil pump drive gear

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
2/5/02	1913	S-3	Engine, Mechanical	Source of drive gears
2/5/02	1913	S-3	Engine, Mechanical	Oil pump clearances
2/5/02	1913	S-3	Engine, Mechanical	Test for satisfactory oil pump performance
3/1/02	1913	S-3	Engine, Mechanical	align boring
5/16/02	1913	S-3	Engine, Mechanical	Cams, lift and leaf springs (axle))
5/16/02	1913	S-3	Engine, Mechanical	New cam grind, use newly ground lifters
5/16/02	1913	S-3	Engine, Mechanical	Use chilled Cast iron lifters
5/16/02	1913	S-3	Engine, Mechanical	Discussion of cam grinding
5/17/02	1913	S-3	Engine, Mechanical	Dimension of various Franklin lifters
5/17/02	1913	S-3	Engine, Mechanical	Using redimensioned side-draft lifters
8/24/02	1913	S-3	Engine, Mechanical	Piston rings
8/24/02	1913	S-3	Engine, Mechanical	Discussion, modern narrow vs old wide
8/5/03	1913	S-3	Engine, Mechanical	Will rain cause cracked cylinder(s)?
3/8/03	1915	S-8	Engine, Mechanical	Sources of leaks around oil pump
3/8/03	1915	S-8	Engine, Mechanical	Method of checking for oil pump leaks
1/17/97	1916 -29	S-9-13	Engine, Mechanical	Pistons, interchangeable s-9-13
4/27/02	1917	S-9	Engine, Mechanical	Pistons & cylinders
4/27/02	1917	S-9	Engine, Mechanical	problems replacing one broken piston
4/27/02	1917	S-9	Engine, Mechanical	Franklin pistons vs replacements
9/1/02	1917	S-9	Engine, Mechanical	Tightening cylinder base nuts on studs
9/1/02	1917	S-9	Engine, Mechanical	Wrist pin clamp bolt procedure
12/13/01	1919	S-9	Engine, Mechanical	Timing Gears
12/13/01	1919	S-9	Engine, Mechanical	Interchangeability?
3/12/02	1919	S-9	Engine, Mechanical	Timing gear knocks or noise
5/3/02	1919	S-9	Engine, Mechanical	Pistons, replacing one broken
5/3/02	1919	S-9	Engine, Mechanical	adjusting piston/pin weight
5/3/02	1919	S-9	Engine, Mechanical	Proper type of piston and orientation
7/3/06	1919	S-9	Engine, Mechanical	Engine break-in procedure
3/7/07	1919	S-9B	Engine, Mechanical	Removing the camshaft, tapered pin locks the camshaft, requires driving out.
7/14/08	1919	S-9	Engine, Mechanical	Gaskets and installation advice for installing cylinders and valve boxes/tubes
10/13/00	1922	S-10	Engine, Mechanical	Sources of old and modern piston rings
3/19/04	1922 -27	S-10-11	Engine, Mechanical	Rod tightening specs, S-10-12, S-14-15, and later cars
3/19/04	1922 -27	S-10-11	Engine, Mechanical	Line bore mains at tightening torque
3/19/04	1922 -27	S-10-11	Engine, Mechanical	Bore rods for inserts at tightening torque
11/4/04	1922	S-10	Engine, Mechanical	Sleeving cylinders
11/4/04	1922	S-10	Engine, Mechanical	grooves cut by wrist pin, recovering by sleeving
11/4/04	1922	S-10	Engine, Mechanical	Advice to achieve tight fit for better heat transfer
8/10/09	1922 on	S-10>>	Engine, Mechanical	Rod oil holes for lubricating thrust side of cylinders, orientation
4/1/02	1923	S-10	Engine, Mechanical	Wrist Pin Bolts
4/1/02	1923	S-10	Engine, Mechanical	Location of bolt
4/1/02	1923	S-10	Engine, Mechanical	Installation of single slotted piston
5/3/02	1925	S-11	Engine, Mechanical	Rod & bearing problems
5/3/02	1925	S-11	Engine, Mechanical	Camshaft removal procedure
5/3/02	1925	S-11	Engine, Mechanical	Balancing rods
7/26/04	1925	S-11	Engine, Mechanical	Engine removal, proper lift procedure
12/1/04	1925	S-11	Engine, Mechanical	Oil pump and pan gaskets
12/9/04	1925	S-11	Engine, Mechanical	Proper installation of base cylinder bolts
12/9/04	1925	S-11	Engine, Mechanical	When to replace bearing bolts
5/9/01	1927	S-11	Engine, Mechanical	Engine rebuild
5/9/01	1927	S-11	Engine, Mechanical	Installing engine in car
11/13/01	1927	S-11	Engine, Mechanical	Oil Breather problem
11/30/02	1927	S-11	Engine, Mechanical	Oil pump refurbish comments
12/3/02	1927	S-11	Engine, Mechanical	Steel billet rods
4/6/03	1927	S-11	Engine, Mechanical	Engine failure after rebuild
8/20/04	1927	S-11	Engine, Mechanical	Oil Drain cock leaks, S9-10-11 etc
8/20/04	1927	S-11	Engine, Mechanical	Proper way to lap and reseal valve.
4/3/98	1928	S-12	Engine, Mechanical	Oil Pump/Filter
4/3/98	1928	S-12	Engine, Mechanical	Description
3/19/04	1928	S-12	Engine, Mechanical	Rod tightening specs, S-10-12, S-14-15, and later cars
3/19/04	1928	S-12	Engine, Mechanical	Line bore mains at tightening torque
3/19/04	1928	S-12	Engine, Mechanical	Bore rods for inserts at tightening torque
9/24/08	1928	S-12B	Engine, Mechanical	Proceudre for removing blower housing and fan
1/20/09	1928	S-12B	Engine, Mechanical	Correct firing order
1/20/09	1928	S-12B	Engine, Mechanical	Adjusting timing chain tension
1/20/09	1928	S-12B	Engine, Mechanical	Removing fan safely without damaging the nut/threads
1/20/09	1928	S-12B	Engine, Mechanical	Assessing bearing condition. Best type to use(mains) Where to have reinstalled
4/30/04	1929	S-13	Engine, Mechanical	Moderns parts to be used during rebuild
4/30/04	1929	S-13	Engine, Mechanical	Other Modern items, optional but recommended
7/26/04	1929	S-13	Engine, Mechanical	Retrofitted side draft engine problem
7/26/04	1929	S-13	Engine, Mechanical	Jammed piston in aluminum head
7/26/04	1929	S-13	Engine, Mechanical	Connecting rod failure at wrist pin
6/28/06	1929	S-13	Engine, Mechanical	Cylinder/Lower air box removal procedure

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
6/30/06	1929	S-13	Engine, Mechanical	How does a worn engine loose compression; Data by owner; comments by Tom
7/4/06	1929	S-13	Engine, Mechanical	Tightening torques for Aluminum Rods and main bearing caps
5/7/07	1929	S-13	Engine, Mechanical	Differences between early oil pumps (1912-29) and later one (1930-on)
3/31/08	1929	S-130	Engine, Mechanical	Types of cylinder cracks and generally are they repairable.
3/2/02	1930 -34		Engine, Mechanical	Engine oil seepage
3/2/02	1930 -34		Engine, Mechanical	Leaking head gaskets
3/2/02	1930 -34		Engine, Mechanical	Helicoils for studs
3/2/02	1930 -34		Engine, Mechanical	Engine Noises
3/19/02	1930 -34		Engine, Mechanical	Head Gaskets
3/19/02	1930 -34		Engine, Mechanical	Refurbishing (annealing)
3/19/02	1930 -34		Engine, Mechanical	Proper installation procedure
1/20/03	1930	S-14	Engine, Mechanical	Crankshaft end-play
1/20/03	1930	S-14	Engine, Mechanical	Restoring cam lift by grind
2/10/03	1930	S-14	Engine, Mechanical	Send lifters? With cam regrind
1/13/04	1930	S-14	Engine, Mechanical	Engine sump pan nuts, how tight?
3/15/04	1930	S-14	Engine, Mechanical	Placement of ring gaps on engine assembly
3/15/04	1930	S-14	Engine, Mechanical	Specific recommendation on ring gap placement
3/19/04	1930	S-14	Engine, Mechanical	Side Draft Head bolts, tightening practice
3/19/04	1930	S-14	Engine, Mechanical	Helicoiling head studs
3/19/04	1930	S-14	Engine, Mechanical	Rod tightening specs, S-10-12, S-14-15, and later cars
3/19/04	1930	S-14	Engine, Mechanical	Line bore mains at tightening torque
3/19/04	1930	S-14	Engine, Mechanical	Bore rods for inserts at tightening torque
3/19/04	1930 -31	S-14-15	Engine, Mechanical	Rod tightening specs, S-10-12, S-14-15, and later cars
3/19/04	1930 -31	S-14-15	Engine, Mechanical	Line bore mains at tightening torque
3/19/04	1930 -31	S-14-15	Engine, Mechanical	Bore rods for inserts at tightening torque
3/20/04	1930	S-14	Engine, Mechanical	Piston Slap
3/20/04	1930	S-14	Engine, Mechanical	Piston design for side draft engines, head contact
12/1/04	1930	S-14	Engine, Mechanical	Engine at low speed OK, Higher speed noise
12/1/04	1930	S-14	Engine, Mechanical	Advice to narrow down location of noise
12/3/04	1930	S-14	Engine, Mechanical	Cylinder to Piston clearances
12/3/04	1930	S-14	Engine, Mechanical	Adjusting oil pump pressure performance
12/9/04	1930	S-14	Engine, Mechanical	Advice on buying used and unused pistons
12/12/04	1930	S-14	Engine, Mechanical	Advice on buying used and unused pistons
12/12/04	1930	S-14	Engine, Mechanical	Issues of past quality problems with Egge
12/12/04	1930	S-14	Engine, Mechanical	Orientation of notched pistons
12/20/04	1930	S-14	Engine, Mechanical	Broken cylinder base
12/20/04	1930	S-14	Engine, Mechanical	Cylinder removal procedure
12/20/04	1930	S-14	Engine, Mechanical	Cylinder removal procedure
1/12/05	1930	S-14	Engine, Mechanical	Broken Cylinder
1/19/05	1930	S-14	Engine, Mechanical	Broken Cylinder
5/30/05	1930 -34	S14 >	Engine, Mechanical	Timing chain
11/9/06	1930	S-147	Engine, Mechanical	Valve cage studs and mounting. Proper installation and adjusting.
11/30/06	1930	S-14	Engine, Mechanical	Problems/solutions in removing generator and chain gets away from you.
2/13/00	1931	S-15	Engine, Mechanical	Welding Cast-iron crossover pipe
2/13/00	1931	S-15	Engine, Mechanical	Procedure for welding cast iron
2/4/01	1931	S-15	Engine, Mechanical	Line boring Franklin 6 cylinder.
11/26/01	1931	S-15	Engine, Mechanical	Oil leaks, engine pan
11/26/01	1931	S-15	Engine, Mechanical	Oil filler cap gasket
1/19/09	1931	S-15	Engine, Mechanical	Troubleshooting oil leak after re-installing oil pan
9/14/09	1931	S153	Engine, Mechanical	Procedure to remove engine.
12/21/02	1932	S-16	Engine, Mechanical	O-rings around push rod tubes
12/21/02	1932	S-16	Engine, Mechanical	Recommend sealing method
3/8/03	1932	S-16	Engine, Mechanical	Description of cam lubrication
3/8/03	1932	S-16	Engine, Mechanical	Adjustable with shims behind timing chain sprocket
7/5/03	1932	S-16	Engine, Mechanical	Compression data, Interesting
7/5/03	1932	S-16	Engine, Mechanical	Compression data over time, several tests
7/5/03	1932	S-16	Engine, Mechanical	Interesting rationale
8/2/03	1932	S-16	Engine, Mechanical	Broken engine housing
8/2/03	1932	S-16	Engine, Mechanical	Welding, very careful to minimize warpage
3/20/03	1933		Engine, Mechanical	Head gasket annealing and assembly
9/22/04	1933	S-18	Engine, Mechanical	Torque on Rods
9/22/04	1933	S-18	Engine, Mechanical	Comments on regular and high strength bolts
7/21/09	1933	Olympic	Engine, Mechanical	Correct end play is 0.007"
1/23/99	1934	S-13	Engine, Mechanical	Replacing engine (temporarily) with 1930
1/23/99	1934	S-13	Engine, Mechanical	Discussion of problems
12/13/01	1934	S-19	Engine, Mechanical	Rods
12/13/01	1934	S-19	Engine, Mechanical	Engine rod details S19B
12/13/01	1934	S-19	Engine, Mechanical	Balancing Rods
4/7/03			Engine, Mechanical	Problems of stuck starting crank
1/6/10	1916 -22	S-9	Engine, Oil Seals	Problems with ACME head seals, suggestions for repair or living with problem
9/6/99	1903	A	Engine, Performance	Power loss
9/6/99	1903	A	Engine, Performance	Spark plug fouling

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
9/6/99	1903	A	Engine, Performance	Spark advance
9/6/99	1903	A	Engine, Performance	Driver control of spark advance
9/6/99	1903	A	Engine, Performance	Sprocket ratios
2/3/02	1903	A	Engine, Performance	Poor running
2/3/02	1903	A	Engine, Performance	Valve timing
2/3/02	1903	A	Engine, Performance	valve clearances
2/3/02	1903	A	Engine, Performance	Compression check
2/3/02	1903	A	Engine, Performance	Ignition issues
8/4/03	1905		Engine, Performance	Rough running engine
8/4/03	1905		Engine, Performance	Engine Temp data
8/4/03	1905		Engine, Performance	Timer problems?
9/9/03	1905	A	Engine, Performance	Rough running engine
9/9/03	1905	A	Engine, Performance	Grounded timer, cured stumbling problem
12/5/07	1906 -09		Engine, Performance	Problems of running barrel hd in cold weather. Condensation due to cold front cylinder.
9/5/07	1907	D	Engine, Performance	Loading up and popping back. Advice on things to check (mainly intake leaks)
8/19/03	1909	Zimmer	Engine, Performance	2 Cyl. One runs cooler
8/19/03	1909	Zimmer	Engine, Performance	Check engine settings and valve conditions
8/19/03	1909	Zimmer	Engine, Performance	Manifold design
8/19/03	1909	Zimmer	Engine, Performance	Check for vacuum leaks
5/17/99	1913	S-3	Engine, Performance	Lousy running
5/17/99	1913	S-3	Engine, Performance	hard starting
3/20/00	1913	S-3	Engine, Performance	Compression problems
1/31/03	1915		Engine, Performance	Constantly fouling plugs on front 3 cylinders
1/31/03	1915		Engine, Performance	Check Mag point gap
1/31/03	1915		Engine, Performance	Check for vacuum leaks
11/11/03	1915	S-7	Engine, Performance	Opening primer cup improves engine performance?
11/11/03	1915	S-7	Engine, Performance	Comments on effects of mixture changes
8/30/07	1917	S-9A	Engine, Performance	Questions and discussion on possible "hot rodding" S-9A engine. S9 valve timing.
8/24/02	1919	S-9	Engine, Performance	Timing
8/24/02	1919	S-9	Engine, Performance	Setting carburetor float level
8/24/02	1919	S-9	Engine, Performance	Carburetor setting
8/24/02	1919	S-9	Engine, Performance	Poor idle, check plug gap, points and carb settings
9/20/03	1925	S-11	Engine, Performance	Starting Problems
9/20/03	1925	S-11	Engine, Performance	Basic check list
9/20/03	1925	S-11	Engine, Performance	Check for fuel flow problems
9/30/04	1925	S-11	Engine, Performance	S-12 engine in S11A ?
9/30/04	1925	S-11	Engine, Performance	Procedure and a neat trick
11/7/07	1925	S-11A	Engine, Performance	What are healthy compression and vacuum readings? Discussion of readings and cyl leak
7/26/04	1926	S-11	Engine, Performance	Proper compression readings
7/26/04	1926	S-11	Engine, Performance	Car starts, runs for a while and stops
3/14/01	1927	S-11	Engine, Performance	Engine problems
5/9/01	1927	S-11	Engine, Performance	Comments on "Break-in"
11/13/01	1927	S-11	Engine, Performance	Break-in issues
7/31/04	1927	S-11	Engine, Performance	Possible causes, of stopping hot engine
10/29/04	1927	S-11	Engine, Performance	Engine seized
10/29/04	1927	S-11	Engine, Performance	Engine rebuild
10/29/04	1927	S-11	Engine, Performance	Checking extent of seizure
8/26/06	1927	S-11B	Engine, Performance	Stalls after running 15 min. Hot start problems. Ignition and fuels suspects.
6/29/02	1928	S-12	Engine, Performance	Starting procedure using choke
6/29/02	1928	S-12	Engine, Performance	Comments on engine break-in
11/21/02	1928	S-12	Engine, Performance	Starting problems
10/8/07	1928	S-12B	Engine, Performance	Overheating? sluggish Things to check: ign. Timing, carb. Adjustment, vac leaks
10/13/00	1929	S-13	Engine, Performance	When to rebuild engine
10/13/00	1929	S-13	Engine, Performance	Items to look for indicating a rebuild
5/17/03	1929	S-13	Engine, Performance	S-14 Engine problems
5/17/03	1929	S-13	Engine, Performance	Explanation of effects of lean mixtures
5/17/03	1929	S-13	Engine, Performance	Lean mixtures cause piston damage
12/6/01	1931	S-15	Engine, Performance	Idle RPM
8/20/04	1931	S-15	Engine, Performance	Comments on limitations (RPM) on running car on dynamometer
2/10/07	1931	S-151	Engine, Performance	Safe procedure to start engine after very long time storage.
7/9/03	1932	S-16	Engine, Performance	Effects of lean mixtures
3/20/03	1933		Engine, Performance	Spark plug gaps closed
3/20/03	1933		Engine, Performance	Gap closed likely caused by debris
3/18/07	1933	S-18	Engine, Performance	Rough running. Things to look for. Discussion of various electric fuel pumps
9/23/06	ALL Yrs	ALL	Engine, Performance	Chassis Dyno tests on various cars at 2006 Trek at Morrisville Auto Tech Center.
4/10/07	ALL Yrs	ALL	Engine, Performance	Compression testing—procedure, interpretation. Spark-plug reading. Valve Adjustment
3/26/04			Engine, Performance	Problems with starting cars with ethanol blends
12/23/06	1908		Engine, Rebuilding	Reuilding 1903 and 1908 engines/trans and differences of these models.
8/30/07	1917	S-9A	Engine, Rebuilding	Crank removal from bottom? (best not to) Comments on proper babbiting.
10/27/07	1917	S-9A	Engine, Rebuilding	Problems and advice on installing new mains and rod bearings w pictures.
3/28/07	1919	S-9B	Engine, Rebuilding	Bearing clearances, check clearance procedure, Assembly position of pistons/rods
7/14/08	1919	S-9	Engine, Rebuilding	Proper end gaps for piston rings—applies to all Franklins

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
4/22/06	1929	S-13	Engine, Rebuilding	Engine Rebuilding comments & advice; Use digital camera !!
7/7/06	1929	S-130	Engine, Rebuilding	Question and comment on engine removal.
7/21/06	1929	S130	Engine, Rebuilding	Bearing clearances. Toyota bearing substitutions. Discussion of bearing fit problems.
7/21/06	1929	S130	Engine, Rebuilding	Proper ordering and boring and fitting of Pistons (Egge)
7/11/06	ALL Yrs	ALL	Engine, Rebuilding	Tinny Aluminum Rods. Comments on Franklin's heat-treated rods.
9/26/07	1903	A	Engine, spark plugs	Plug for '03? Champion 525 or Motorcraft F11
10/24/07	1903	A	Engine, spark plugs	Comments on proper and best plugs to use. Suggested source.
11/15/03	1906 -13	H	Engine, Spark Plugs	Mixture problems and spark plugs
9/20/03	1914	S-6	Engine, Spark Plugs	Spark plug setting with Magnetos
9/20/03	1914	S-6	Engine, Spark Plugs	Try glazed plugs
9/20/03	1914	S-6	Engine, Spark Plugs	Need a hot plug for this engine
9/20/03	1914	S-6	Engine, Spark Plugs	Spark plug discussion
5/9/05	1914	S-5	Engine, Spark Plugs	Spark Plugs
5/9/05	1914	S-5	Engine, Spark Plugs	Spark Plugs, old vs Modern
5/9/05	1914	S-5	Engine, Spark Plugs	Glazed plugs vs modern
5/9/05	1914	S-5	Engine, Spark Plugs	Fouling problems, S-9 and earlier
4/13/99	1921	S-9	Engine, Spark Plugs	Spark plug gap
1/29/00	1922	S-10	Engine, Spark Plugs	Spark plugs
8/24/02	1924	S-10	Engine, Spark Plugs	Spark plugs, type number & source
4/28/04	1927	S-11	Engine, Spark Plugs	spark plugs for S-11
3/21/00	1928	S-12	Engine, Spark Plugs	Type of Spark Plug
3/21/00	1928	S-12	Engine, Spark Plugs	S-12A Ch. W18
3/21/00	1928	S-12	Engine, Spark Plugs	S-12B Ch. D16 or 516
4/6/06	1930	S-14	Engine, Spark Plugs	Plugs for the sidedraft engine, comments on interchange and availability
8/27/09	1906	G	Engine, Troubleshooting	Improving compression, various suggestions, mostly auxiliary valves
6/26/06	1929	S-13	Engine, Troubleshooting	Poor/zero engine compression; methods to troubleshoot & correct
4/8/09	1929	S-13	Engine, Troubleshooting	Suggested procedures for hard (cold) starting car
12/3/09	1930	S-14 >>	Engine, Troubleshooting	Advice on troubleshooting setting up & restarting after timing gears removed
4/1/02	1925	S-11	Engine, Tune up	Firing order
4/1/02	1925	S-11	Engine, Tune up	Ignition timing procedure
3/5/02	1929	S-13	Engine, Tune up	Idle, erratic
3/5/02	1929	S-13	Engine, Tune up	Distributor service advice
3/5/02	1929	S-13	Engine, Tune up	Delco Distributor
3/5/02	1929	S-13	Engine, Tune up	General tune-up advice
8/24/02	1930	S-14	Engine, Tune up	Spark control knob
8/24/02	1930	S-14	Engine, Tune up	Spark settings
9/1/02	1932	S-16	Engine, Tune up	45/50mph flutter
9/1/02	1932	S-16	Engine, Tune up	Throttle position
9/1/02	1932	S-16	Engine, Tune up	U-2 Carb adjustments to cure flutter
1/14/02	1903	A	Engine, Valves	Valve timing
7/5/03	1903	A	Engine, Valves	Valve timing
8/27/09	1906	G	Engine, Valves	Dealing with auxilliary valves. Various sealing and installation problems
11/9/09	1906	G	Engine, Valves	Problems with ausilliary exhaust valves, spring strength ? Gasket material
4/11/08	1908 -10	G, D	Engine, valves	Concentric Valves, how they work—great diagrams & discussion !
6/10/04	1909	D	Engine, Valves	Procedure to adjust valve clearance
5/14/04	1911	G	Engine, Valves	Source of valves and springs
7/1/02	1912	S-2	Engine, Valves	Rockers not centered on valves
7/1/02	1912	S-2	Engine, Valves	Should center; carefully bend
1/23/99	1913	S-3	Engine, Valves	Valve problems
1/23/99	1913	S-3	Engine, Valves	Low compression problems
5/17/99	1913	S-3	Engine, Valves	Adjusting Valve clearance
7/23/03	1913	S-3	Engine, Valves	Cam timing continued
7/23/03	1913	S-3	Engine, Valves	Valve clearance and timing check
7/23/03	1913	S-3	Engine, Valves	Different timing from different cams
7/23/03	1913	S-3	Engine, Valves	Tedious but very accurate cam timing measurement
9/3/01	1915 -29	S-7-16	Engine, Valves	Push rod tube seals
9/3/01	1915 -34	S-7-16	Engine, Valves	O-rings?
1/17/97	1916 -29	S-9-13	Engine, Valves	Interchangeable parts with modern
1/17/97	1916 -29	S-9-13	Engine, Valves	Chevy 283 valves
8/31/00	1919	S-9	Engine, Valves	Valve train assembly
8/31/00	1919	S-9	Engine, Valves	Procedure for installing valve rocker boxes and push rods S-9-13
3/12/02	1919	S-9	Engine, Valves	valve timing
7/14/02	1919	S-9	Engine, Valves	Valve guide wear
7/14/02	1919	S-9	Engine, Valves	Removing manifolds, problems
7/14/02	1919	S-9	Engine, Valves	Replacement valves
7/14/02	1919	S-9	Engine, Valves	Valve seat wear from guide wear
7/14/02	1919	S-9	Engine, Valves	Sources of valves, guides
8/19/04	1919	S-9	Engine, Valves	Stuck valves from long storage
1/10/08	1919	S-9B	Engine, valves	Sealing Valve cages? No, not done and not recommended.
6/8/00	1925	S-11	Engine, Valves	Valve lifter guide oil leaks
6/8/00	1925	S-11	Engine, Valves	leak around top of crank case
6/8/00	1925	S-11	Engine, Valves	tighten clamp nut

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
6/8/00	1925	S-11	Engine, Valves	tighten nuts on top of tube at base of valve cage
6/8/00	1925	S-11	Engine, Valves	procedure for refitting valve boxes/pushrod tubes
7/28/01	1925	S-11	Engine, Valves	Sticking valves
9/11/03	1925	S-11	Engine, Valves	Procedure for setting valve clearances
9/11/03	1925	S-11	Engine, Valves	Checking cam timing
11/27/07	1925	S-11A	Engine, valves	Replacement valves for S11 (Cheve 283 Ex Valves) Installation issues.
11/10/97	1926	S-11	Engine, Valves	Valves
11/10/97	1926	S-11	Engine, Valves	keeper pins
11/10/97	1926	S-11	Engine, Valves	Chev/Pontiac valve substitutions
11/10/97	1926	S-11	Engine, Valves	Vertical location of guides
11/10/97	1926	S-11	Engine, Valves	Guide clearances
7/23/03	1927	S-11	Engine, Valves	Valve seat specifications
7/30/03	1927	S-11	Engine, Valves	Best seat angles for valves
7/30/03	1927	S-11	Engine, Valves	Specs for valves and seat angles
7/31/99	1928	S-12	Engine, Valves	Valve guide clearance
7/31/99	1928	S-12	Engine, Valves	Spring pressure
5/14/01	1928	S-12	Engine, Valves	Configuration of bronze guides
5/14/01	1928	S-12	Engine, Valves	Valve guide problems
5/14/01	1928	S-12	Engine, Valves	Using a vacuum gage to diagnose
4/21/03	1928	S-12	Engine, Valves	Chevy 283 valves for S-10
11/18/04	1928	S-12	Engine, Valves	Stuck valves, car in storage a long time
11/18/04	1928	S-12	Engine, Valves	Cracked rocker boxes
11/18/04	1928	S-12	Engine, Valves	Procedure for freeing valves
11/18/04	1928	S-12	Engine, Valves	Procedure for repairing valve rocker boxes
3/2/98	1930	S-14	Engine, Valves	Valve oiler
6/24/00	1930 -34	S-14-19	Engine, Valves	Valve rotators, comments
12/19/01	1930	S-14	Engine, Valves	Rusted Valve cover
12/19/01	1930	S-14	Engine, Valves	Worn valve guide
12/19/01	1930	S-14	Engine, Valves	Remedy for rusted cover
3/2/02	1930 -34		Engine, Valves	Valve train assembly
5/21/02	1930 -34		Engine, Valves	Shimming rocker boxes
5/21/02	1930 -34		Engine, Valves	Procedures for rocker box shimming
9/19/98	1931	S-15	Engine, Valves	Valve guide clearances, I & E
9/23/01	1931	S-15	Engine, Valves	Valve Cage sealing
11/20/01	1931	S-15	Engine, Valves	Pushrod tubes
11/26/01	1931	S-15	Engine, Valves	Valve oiler adjustments
7/17/03	1931	S-15	Engine, Valves	New valve felts, interference?
5/5/03	1932	S-16	Engine, Valves	Replacing/repairing valve guides
5/5/03	1932	S-16	Engine, Valves	Valve guide clearances
5/5/03	1932	S-16	Engine, Valves	Valve seat angles
5/5/03	1932	S-16	Engine, Valves	Fitting seats to Aluminum heads
5/17/03	1932	S-16	Engine, Valves	Reasons for not sleeving exhaust guides
5/17/03	1932	S-16	Engine, Valves	Use of Aircraft engine Silicon bronze guides
9/8/99	1933	S-18	Engine, Valves	Procedure for removing valve rocker box
9/8/99	1933	S-18	Engine, Valves	Pushrods
4/5/04	1933	S-18	Engine, Valves	Oil leaks from valve cages
4/5/04	1933	S-18	Engine, Valves	Clean and inspect carefully after running
4/5/04	1933	S-18	Engine, Valves	Proper sealing of valve cages to head
5/26/07	1933	S-18A	Engine, Valves	Sticking valve problems on an Olympic. Effects of mal-adjustment of clearance.
5/7/09	1933	Olympic	Engine, Valves	Valve lash setting 0.007" and 0.007"
9/7/99	1908 -10	G	Engine, Valves	Auxiliary exhaust valves
4/24/09	ALL	ALL	Engine, Valves	Good advice to remove and install valve guides
4/21/03	1919	S-9	Fabric Top	Side curtain windows for touring car
4/21/03	1919	S-9	Fabric Top	Source of plastic side curtain material.
5/2/00	1925	S-10C	Fabric Top	Fabric Top Repair
5/2/00	1925	S-10C	Fabric Top	Top dressings
8/21/05	1925	S-10C	Fabric Top	Top Material
8/21/05	1925	S-10C	Fabric Top	Source—top material
6/18/98	1930	S-14	Fabric Top	Fabric roof
6/18/98	1930	S-14	Fabric Top	Top dressing
6/18/98	1930	S-14	Fabric Top	Tire paint
1/22/04	1931	S-15	Fabric Top	Top Material for Sedan
1/22/04	1931	S-15	Fabric Top	Comments on construction
1/22/04	1931	S-15	Fabric Top	Sources of top material
2/7/01	1932	S-16	Fabric Top	Procedure for installing Fabric top
2/7/01	1932	S-16	Fabric Top	Fabric top material & source
10/30/01	1932	S-16	Fabric Top	Leather Body tops
2/24/04			Fabric Top	Source of vinyl top material
9/21/04			Fabric Top	Removing grease from convertible fabric top
2/2/04	1914	S-6	Fabric Top Bows	Top Bows
2/2/04	1914	S-6	Fabric Top Bows	Sources of top bows
2/2/04	1914	S-6	Fabric Top Bows	Comments on top bow construction

Date	Year	Series	General category:	Key Words
	XXX		<<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
7/13/05	1926	S-11	Fabric Top Bows	Sources of Top Bows
7/13/05	1926	S-11	Fabric Top Bows	Top Bows
3/30/04	1928	S-12	Fabric Top Bows	Top Bows for '28 Boat tail roadster
3/30/04	1928	S-12	Fabric Top Bows	Sources of top bows
3/30/04	1928	S-12	Fabric Top Bows	Description of proper top bow finish and construction
8/20/04	1928	S-12	Fabric Top Bows	Top Bow rests on rumble seat lid
7/28/07	1906 -28	A-S12	Frame	Source of quality ash for making Franklin Frames.
7/1/99	1917	S-9	Frame	Frame
7/1/99	1917	S-9	Frame	Repair vs make new
7/1/99	1917	S-9	Frame	lap joints and gusset repairs
7/1/99	1917	S-9	Frame	Sag
2/2/05	1919	S-9	Frame	Wooden frames
2/2/05	1919	S-9	Frame	Sag and Crowning of replacement sills.
3/10/05	1919	S-9	Frame	Wooden Frame details
3/10/05	1919	S-9	Frame	Wooden frames, Comparison S9-10-11-12
3/10/05	1919	S-9	Frame	Wooden frames, compensating for sag in new frame
3/10/05	1919	S-9	Frame	Wooden frames, tips in reproducing S-12
3/10/05	1919	S-9	Frame	Stainless screws, source
3/16/00	1921	S-9	Frame	Wood Frame
3/16/00	1921	S-9	Frame	Substitute for Ash ?
3/16/00	1921	S-9	Frame	Comments on S-11 Frame
12/1/04	1925	S-11	Frame	Wooden frame making
1/16/05	1926	S-11	Frame	Wooden frame rails
2/9/05	1926	S-11	Frame	Wooden Frame details
2/25/04	1927	S-11	Frame	frame sag
2/25/04	1927	S-11	Frame	Frame trusses
2/25/04	1927	S-11	Frame	Things to do before truss
3/14/01	1928	S-12	Frame	Frames, wood & steel
11/29/06	1928	S-12B	Frame	Excellent treatise, discussion and pictures on making a new wooden frame.
5/3/07	1928	S-12B	Frame	Interesting advice from shop teacher about clamping frames with vacuum bags.
5/5/07	1928	S-12B	Frame	Wooden frame, discussion of crown put int o a new frame. Also front body mount mod.
7/13/07	1928	S-12B	Frame	Wooden Frame Sag. Identifying original frames, measuring sag, repairing/gluing
11/7/07	1928	S-12	Frame	Problems and success locating top quality ash hardwood for making frame.
12/5/07	1928	S-12	Frame	Details on making and gluing for making S12 drop frame.
1/28/08	1928	S-12A	Frame	Adjusting hood fit due to frame sag. Pros/cons of a frame truss vs new frame.
8/27/08	1928	S-12B	Frame	Followup on replacement (crowned) sills installed 24 years ago
1/26/00	1930	S-14	Frame	frame problems
2/7/01	1932	S-16	Frame	Proper color for chassis
4/24/09	1928 -34	S12>>>	Front Axle & Alignment	Replcement Front wheel bearing & seal numbers and proper grease
10/31/09	1925-6	S-11A	Front Axle & Alignment	Front spindle tab washer that locks two spindl nuts together, possible sources.
12/8/08	1920 -28	S-9-13	Fuel System, pump	Aluminum repro of Vacuum tank top from Australia
4/27/08	1911	G	Fuel System, tank	Cleaning and care of copper gas tank
4/30/08	1929	S-130	Fuel System, tank	Leak in pick up tube inside tank. Need to repair, no replacements
2/3/09	1916 -29	S-9-13	Fuel, Pump	Making vacuum tank gaskets or source to purchase
1/20/09	1928	S-12B	Fuel, Pump	Discussion and discovery of Vacuum fuel pump
2/19/09	1928	S-12	Fuel, Tank/lines	Problems with cork floats in gas tank
10/21/09	1930	S-14 >>	Fuel, Tank/lines	Not usually a problem on S14. Trouble shooting suggestions, incl coil.
4/1/06	1916	S-9	Headlights	Advice on disassembly of Headlights
2/7/10	1919	S-9	Headlights	Polishing and sealing headlight reflector
2/7/10	1919	S-9	Headlights	Polishing and sealing headlight reflector; when to replate with silver
2/13/09	1922 -25	S-10	Headlights	Information on S-10 Mirro-tilt headlights
1/16/05	1926	S-11	Headlights	Headlight rims and lenses
11/7/09	1929	S-13	Headlights	Correct Hd Light bulbs to avoid battery overcharging problems. Also check wiring
1/16/05	1930	S-14	Headlights	Headlight dimmer switch disassembly
5/14/05	1930 -31	S14-15	Headlights	Headlight Wiring
5/14/05	1930 -31	S14-15	Headlights	Headlight fuses
5/14/05	1930 -31	S14-15	Headlights	Headlight relays
11/20/01	1931	S-15	Headlights	Headlight switch
2/6/04	ALL Yrs		Headlights	Brass headlight rims
2/6/04	ALL Yrs		Headlights	Annealing (softening) brass
8/24/02	1930	S-14	Information Searching	Quick reliable source of owners manuals
1/1/08	ALL Yrs	ALL	Information Searching	Lists of Repro/replacement parts sources: descriptions and web addresses
6/12/08	ALL Yrs	ALL	Information Searching	Ignition stories of "Old Timer's" tricks
7/25/03	1919	S-9	Instruments, Fuel	S-9 Gas gage
6/2/05	1928	S-12	Instruments, Fuel	Fuel gage, electric
6/2/05	1928	S-12	Instruments, Fuel	Fuel gage, incompatibility with modern gages
6/2/05	1928	S-12	Instruments, Fuel	Fuel gage, electric
6/2/05	1928	S-12	Instruments, Fuel	Fuel gage, incompatibility with modern gages
6/2/05	1928	S-12	Instruments, Fuel	Fuel gage bevel gears
6/2/05	1928	S-12	Instruments, Fuel	Fuel gage bevel gears same as L-29 Cord
6/2/05	1928	S-12	Instruments, Fuel	Sources of Fuel bevel gears
2/18/07	1929 -34	S-12-17	Instruments, fuel	Possible later King-Seeley gage to fit Franklin ?

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>	
7/1/98	1930 -34	S14-19	Instruments, Fuel	King-Seely Hydrostatic
7/1/98	1930 -34	S14-19	Instruments, Fuel	Functional description
7/1/98	1930 -34	S14-19	Instruments, Fuel	Inspection/repair procedure
4/15/07	1930 -34	S-14-17	Instruments, fuel	Clogged fuel gage. Unplugging procedure. Gage glass source. Gage calibration.
11/20/01	1931	S-15	Instruments, Fuel	Servicing gas gage
7/11/06	1933	S-18A	Instruments, Fuel	Safety Hazzard of Red Fluids. Read carefully !
7/21/06	1933	S-18A	Instruments, Fuel	Gas gageFluid fade problems, sucessful maintenance. Comments on Oil level gage.
5/6/07	1930 -31	S-13-14	Instruments, gages	New remanufactured head light switch handles--a club project, soon available.
1/23/02	1913	S-3	Instruments, Speedometer	Speedometer cable
1/23/02	1913	S-3	Instruments, Speedometer	Replacing links with modern
1/23/02	1913	S-3	Instruments, Speedometer	Possible sources of links
1/23/02	1913	S-3	Instruments, Speedometer	Routing of speedo cable
5/29/03	1923	S-10	Instruments, Speedometer	Speedometer repair
5/29/03	1923	S-10	Instruments, Speedometer	Source of speedometer repair
8/19/07	1926	S-11A	Instruments, speedometer	Broken speedo cable. Finding and installing a new cable. Lubrication.
6/29/05	1927	S-11	Instruments, Speedometer	Speedometer gear
6/29/05	1927	S-11	Instruments, Speedometer	Worn worm gear
6/29/05	1927	S-11	Instruments, Speedometer	Sources of speedo gear replacements modern
10/19/05	1927	S-11	Instruments, Speedometer	Speedometer Gear
10/19/05	1927	S-11	Instruments, Speedometer	Sources of small gears
10/19/05	1927	S-11	Instruments, Speedometer	Case hardening of small gears
10/19/05	1927	S-11	Instruments, Speedometer	Sources of Speedo parts
1/17/08	1929	S130	Instruments/gages	Oil gage in '29, oil level not pressure. History of oil gages in Franklin, interesting.
7/1/98	1930 -34	S14-19	Instruments/Gages	Fuel and oil gages
9/23/01	1931	S-15	Instruments/Gages	Oil & gas Gage
9/23/01	1931	S-15	Instruments/Gages	Unique oil gage hook up
10/24/02	1932	S-16	Instruments/Gages	Restoring dash gage faces
8/20/04	1933	S-18	Instruments/Gages	Removing rings around gages on Dash
8/20/04	1933	S-18	Instruments/Gages	Procedure for removal and installation
8/20/04	1933	S-18	Instruments/Gages	Annealing brass
8/20/04			Instruments/Gages	Advice on correct Nickel base plating, CRITICAL!
8/27/09	1906	G	Lubrication, Chassis	problems and diligence required to lubricate universal joints (lousy design)
4/18/06	1925	S-11	Lubrication, Chassis	Advice on Lube fittings (original & modern); Caution on spring pivots oiling
10/2/06	1925 -27	S-11	Lubrication, Chassis	Use of modern grease guns. Use a regular grease gun with oil for spring bolts
7/30/99	1912 -29	S-1--13	Lubrication, Engine	Oil Pressure
7/30/99	1912 -29	S-1--13	Lubrication, Engine	Pulse system
10/22/05	1919	S-9	Lubrication, Engine	Oil Filter
10/22/05	1919	S-9	Lubrication, Engine	Reasons for long life in modern times
3/14/03	1921	S-9	Lubrication, Engine	Modifying Oil Pump for continuous pressure
3/14/03	1921	S-9	Lubrication, Engine	Comparison between 1929 & 1921
3/14/03	1921	S-9	Lubrication, Engine	Comments on Oil P. influence on bearing failures
3/14/03	1921	S-9	Lubrication, Engine	Comments on Smitty Weeks pumps for S9-11
3/20/03	1921	S-9	Lubrication, Engine	S9 Oil Pump explanation of operation
4/6/03	1927	S-11	Lubrication, Engine	Issues with full pressure oil system in S-11
4/21/03	1927	S-11	Lubrication, Engine	Comment on pulse oil pump operation
4/21/03	1927	S-11	Lubrication, Engine	Rebuilding and adjusting pressure on pulse pump
4/21/03	1927	S-11	Lubrication, Engine	Issues of replcing with modern pump
12/29/05	1927	S-11	Lubrication, Engine	Oil Drain Cock leaks, repair procedure
4/5/98	1928	S-12	Lubrication, Engine	Valve Oiler
1/16/05	1928	S-12	Lubrication, Engine	Oil capacity, crankcase
1/31/99	1929	S-13	Lubrication, Engine	Clean Crankcase
5/22/09	1929	S130	Lubrication, Engine	Pressure of a pulsating pump and correct pressure ranges
3/2/98	1930	S-14	Lubrication, Engine	Pumice filter stones don't work
6/7/05	1930	S14 >	Lubrication, Engine	Rocker Arm Cork Gasket
6/7/05	1930	S14 >	Lubrication, Engine	Gasket and sealing procedure on rocker arm cover
6/7/05	1930	S14 >	Lubrication, Engine	push rod tube, sealing procedure
6/7/05	1930	S14 >	Lubrication, Engine	When to replace gaskets, rocker arm cover
10/28/05	1930	S-14	Lubrication, Engine	Seal-All gasket cement and leak repair
7/17/03	1931	S-15	Lubrication, Engine	Oil pressure behavior on heating up
4/14/05	1932	S-16	Lubrication, Engine	Synthetic Oils
10/19/05	1933	S-18	Lubrication, Engine	Oil lines
2/5/06	ALL Yrs	ALL	Lubrication, Engine	Sludge removal; engine lube introduction procedure after cleaning
1/28/08	1922 -34	S-10-19	Lubrication, Engine Valves	Refurbishing/repairing accessory valve oiler. Nice to have fresh, new oil on valves.
7/28/01	1925	S-11	Lubrication, Engine Valves	Valve oil comments and history
8/23/08	1926	S-11	Lubrication, Engine Valves	Discussion of oils for engine and valves with some Franklin and oil history
4/5/98	1928	S-12	Lubrication, Engine Valves	jiggler oil feeder
4/5/98	1928	S-12	Lubrication, Engine Valves	Manual oiling
5/14/01	1928	S-12	Lubrication, Engine Valves	Proper oiling of valves
5/14/01	1928	S-12	Lubrication, Engine Valves	Proper oil for valves
2/1/08	1929	S-130	Lubrication, Engine Valves	Suggestions on making/adapting aftermarket valve oilers (or from other makes)
3/2/98	1930	S-14	Lubrication, Engine Valves	Oil Manually
3/2/98	1930	S-14	Lubrication, Engine Valves	Use synthetic or 2 stroke oil

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN.	CATEGORY then by YEAR >>>>>
3/2/98	1930	S-14	Lubrication, Engine Valves	Don't use Marvel Mystery. Oil
9/19/98	1930 -34	S-14-19	Lubrication, Engine Valves	Valve oiling pads
9/19/98	1930 -34	S-14-19	Lubrication, Engine Valves	Tails or no tails
6/22/06	1930 -34	S14-19	Lubrication, Engine Valves	Timing chain cover valve?, Valve Oiler; possible new oiler being developed
7/17/03	1931	S-15	Lubrication, Engine Valves	Valve oiling, oils to use
7/17/03	1931	S-15	Lubrication, Engine Valves	After market valve oilers
4/14/05	1932	S-16	Lubrication, Engine Valves	Valve Oil, modern replacement
4/14/05	1932	S-16	Lubrication, Engine Valves	Marvel Mystery Oil, comments
10/19/05	1933	S-18	Lubrication, Engine Valves	Valve oil regulation
10/19/05	1933	S-18	Lubrication, Engine Valves	Valve Oiling procedure
10/19/05	1933	S-18	Lubrication, Engine Valves	Oil valve pads
5/6/05			Lubrication, Engine Valves	Valve oil
5/6/05			Lubrication, Engine Valves	Valve oil, suggested viscosities
5/6/05			Lubrication, Engine Valves	Valve oils, recommended synthetic
5/6/05			Lubrication, Engine Valves	Crankcase oils vs valve oil
12/6/06	1925	S-11A	Lubrication, Oil Filter	Replacement filler pipe screen material from McMaster-Carr
4/3/98	1928	S-12	Lubrication, Oil Filter	Napa 1035 but no pressure bypass
1/20/09	1928	S-12B	Lubrication, Oil Filter	Oil filter issues. Replacement suggestions/sources
2/7/10	1928	S-12	Lubrication, Oil Filter	Installing filter. Connect to return line
1/20/03	1929	S-13	Lubrication, Oil Filter	Oil Filters
11/4/09	1929	S-13	Lubrication, Oil Filter	Various options for an oil filter replacement.
1/16/98	1930 -34	S14-16,19	Lubrication, Oil Filter	Franklin 89021 = Wix 51035
1/16/98	1930 -34	S14-16,19	Lubrication, Oil Filter	Oil filters
1/20/03	1930 -34		Lubrication, Oil Filter	Oil Filters
9/2/04	1930	S-14	Lubrication, Oil Filter	Details on oil filter
7/31/04	1931	S-15	Lubrication, Oil Filter	Oil filter?
7/31/04	1931	S-15	Lubrication, Oil Filter	Sources and availability problems
7/31/04	1931	S-15	Lubrication, Oil Filter	Modern adaptation, source
7/26/01	1932	S-16	Lubrication, Oil Filter	Oil Filter
5/16/06	1933	S-18	Lubrication, Oil Filter	Source of Replacement Oil Filters
5/27/03			Lubrication, Oil Filter	Oil Filter, Wix 51035
5/27/03			Lubrication, Oil Filter	Mopar L-285
5/27/03			Lubrication, Oil Filter	Source of Filters
1/8/08	1929	S-130	Lubrication, Oil pump/lines	Replacing/refurbishing oil lines. Pump gear clearance. Oil line fittings problems.
4/6/06	1922 -27	S-10-11	Lubrication, Oils	Advice on Engine oils
5/11/03	1926	S-11	Lubrication, Oils	Correct Oil for engine, Trans and rear
7/28/01	1928	S-12	Lubrication, Oils	Engine Oil viscosities
1/31/99	1929	S-13	Lubrication, Oils	Synthetic Oils
1/31/99	1929	S-13	Lubrication, Oils	Detergent Oils
1/31/99	1929	S-13	Lubrication, Oils	SAE 40W
7/17/03	1931	S-15	Lubrication, Oils	Suitable Oils to use?
7/26/01	1932	S-16	Lubrication, Oils	Oil type
7/26/01	1932	S-16	Lubrication, Oils	Synthetic oils
1/13/09	ALL	ALL	Lubrication, Oils	Discussion of ZDDP additive removal from oils. What to use in Franklin
4/7/03			Lubrication, Oils	Correct selection of motor oil viscosity
1/17/98	1930	S-14	Lubrication, Steering	Proper lubrication
8/27/09	1906	G	Lubrication, Transmission	Suggested oils for transmission
9/7/04	1925	S-11	Lubrication, Transmission	Transmission oil
2/20/06	1926	S-11	Lubrication, Transmission	Transmission lubrication oil and advice
8/11/09	1927	S-11B	Lubrication, Transmission	Discussion and recommendation of modern oils for trans. S-10 thru S-14
12/12/97	1930	S-14	Lubrication, Transmission	proper oils
4/24/09	1930 >>>>	S14>>>	Lubrication, Transmission	Dealing with rear oil lead from Warner three speed transmission S153)
11/9/03	ALL Yrs		Lubrication, Transmission	Gear oil for Franklins
11/9/03	ALL Yrs		Lubrication, Transmission	Comments from a knowledgeable supplier
11/9/03	ALL Yrs		Lubrication, Transmission	Recommendations for gear oils
9/5/07	1928	S-12B	Lubrication, Oil Pump	Concern about using paper gasket for clearance. Discussion of gasket materials.
11/23/08	1907	D	Misc.	Question about ID of a car photo of a barrel hood touring car
7/15/04	1911	G	Misc.	Interesting history of a specific car
2/10/03	1915	S-8	Misc.	Use of Propane fuel in Franklin?
12/8/08	1915		Misc.	Question about unusual format factory literature on Walla Walla run
7/7/01	1927	S-11	Misc.	
4/14/05	1929		Misc.	
2/5/02	1932	S-16	Misc.	Engine differences S-14 & S-16
2/5/02	1932	S-16	Misc.	Many differences
2/5/02	1932	S-16	Misc.	S-16 is smoother, quieter
1/11/03			Misc.	Misc. Winter Blues
4/21/05			Misc.	Can you ID Franklin Fire truck?
2/7/07			Misc.	Some methods of tacking historical information of Franklin Dealers.
6/3/09	1903 -06	A	Misc., Info Searching	Identifying the year of an early cross engine Franklin in England
6/3/09	1903 -06	A	Misc., Info Searching	Pictures of an early "fake" Franklin — probably a copy-cat make.
10/14/04	1929	S-13	Misc., Info Searching	Specifications for S-13
4/24/09	1929	S-13	Misc., Info Searching	Discussion of differences and options of '29 Std, oxford and sport sedans

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN.	CATEGORY then by YEAR >>>>>
8/20/04	1931	S-15	Misc., Info Searching	Side draft engine specifications
5/2/05	ALL Yrs		Misc., Info Searching	Web site search engine
5/2/05	ALL Yrs		Misc., Info Searching	Web site source of brake parts
5/2/05	ALL Yrs		Misc., Info Searching	Web site source of bearings
2/3/09	ALL	ALL	Misc., Info Searching	Franklin dealer lists
5/6/09			Misc., Info Searching	Coarse thread vs fine thread bolts. Sources of "old" bolts
7/14/02	1919	S-9	Misc., Restoration	Procedure for removing old bolts and cap screws
7/14/02	1919	S-9	Misc., Restoration	Procedure for removing broken bolts, screws and studs
7/14/02	1919	S-9	Misc., Restoration	Patience
4/28/04	1923	S-10	Misc., Restoration	Need to find clock, shocks, rubber for glass
8/31/00	1928	S-12	Misc., Restoration	Pros and cons of Series 12
8/31/00	1928	S-12	Misc., Restoration	Typical S-12 problems when considering purchase
3/14/01	1928	S-12	Misc., Restoration	Problems of restoration
3/14/01	1928	S-12	Misc., Restoration	Problems of obtaining parts
3/14/01	1928	S-12	Misc., Restoration	List of items to determine condition
6/29/02	1928	S-12	Misc., Restoration	Procedure before starting an engine not used for years
5/27/06	1929	S-137	Misc., Restoration	Finish on wire wheels; finish on undersides; wiper motor finish & number
5/27/06	1929	S-137	Misc., Restoration	One or two tail lites?; trunk type/finish; window garnish moldings;
5/27/06	1929	S-137	Misc., Restoration	Door garnish decals; source of restoration comments
3/8/03	1930	S-14	Misc., Restoration	Starting a Franklin after 30 years storage
3/8/03	1930	S-14	Misc., Restoration	Procedure to prepare for starting after long storage
5/5/03	1932	S-16	Misc., Restoration	Rubber parts for Franklins
5/5/03	1932	S-16	Misc., Restoration	Numerous rubber parts for Franklin bodies
8/19/03	1933	S-18	Misc., Restoration	Painting Hub Caps
8/19/07	1933	S-18A	Misc., restoration	Chassis bolts and hardware—what is correct finish? Type/color of paint or plating.
7/7/09	1934	S19A-B	Misc., Restoration	Discussion of differences of S19A n S19B in 1934
3/10/08	1909	G	Performance	Procedure for starting after long storage (cautions about control modifications)
7/23/03	1913	S-3	Performance	Poor performance
7/23/03	1913	S-3	Performance	Cam Timing
7/23/03	1913	S-3	Performance	Valve adjustments must be correct
8/24/02	1919	S-9	Performance	Benefits of tune up adjustments
11/4/08	1927	S-11B	Performance	Sometimes just running a long stored car clears things up well. Good summary
3/21/08	1928 -29	S-12-13	Performance	Engine design and performance and durability—neat "Chape Condit" story
4/20/08	1929	S-130	Performance	Detailed discussion on troubleshooting and dealing with HARD STARTING
2/10/03	1930	S-14	Performance	Overdrive vs high speed rear axle gears
6/20/03	1931	S-15	Performance	Poor performance, ltd to 45 mph
6/20/03	1931	S-15	Performance	Comments on performance of various models
7/17/03	1931	S-15	Performance	What is normal gas mileage
7/17/03	1931	S-15	Performance	Poor performance
6/8/08	1933	S-18	Performance	Troubleshooting a poor rning engine procedure—in this case: fuel pump
6/28/08	1933	S-18	Performance	Olympic heat riser is different, can cause running problems
7/15/04			Performance	Experience with Ethanol Fuels in the mid-west
7/15/04			Performance	Experience with Ethanol Fuels in the East
7/15/04			Performance	Advice on possible float adjustment with ethanol containing fuel
3/9/08	1922 -25	S-10	Rear Axle	Applies S-9—12: Clearances & method of fitting differenrtial gears and bearings
12/31/08	1928 -34	S-12 >>	Rear Axle	Suggested rear axle inner differential seals. (in conjunction w felt retainers)
7/2/99	1922 -27	S10-11	Shocks	Watson stabilators
7/2/99	1922 -27	S10-11	Shocks	replacement belting
7/2/99	1922 -27	S10-11	Shocks	source of belting
7/26/04	1922	S-10	Shocks	Stabilator Straps (Shocks)
2/17/07	1923 -27	S-10-11	Shocks	Searching for Watson Stabilator or parts. Takes patience.
12/6/06	1925	S-11A	Shocks	Replacement belting for Watson stabilators
6/25/05	1927	S-11	Shocks	Stabilators
6/25/05	1927	S-11	Shocks	Stabilators, disassembly
6/25/05	1927	S-11	Shocks	Stabilators, proper rivets
6/25/05	1927	S-11	Shocks	Source of rivets
8/19/07	1928 -34	S-13-19	Shocks	Another recommendation for Apple Hydraulics to rebuild lever shocks.
3/25/99	1929 -34		Shocks	Lever Shocks, Hydraulic oil
3/25/99	1929 -34		Shocks	Hydraulic jack oil
3/25/99	1929 -34		Shocks	Motorcycle fork oil
3/25/99	1929 -34		Shocks	don't use motor oil
3/25/99	1929 -34		Shocks	Don't overfill
8/29/03	1929	S-13	Shocks	Parts & seals to rebuild Delco Lovejoy shocks
8/29/03	1929	S-13	Shocks	Cleaning pitting from piston and cylinder
8/29/03	1929	S-13	Shocks	Correct oil to use
8/29/03	1929	S-13	Shocks	Rebuild service for shocks
8/29/03	1929	S-13	Shocks	Apple Hydraulics repair service for shocks
1/16/07	1930	S-14	Shocks	Where to get hyraulic lever shocks rebuilt.
6/7/06	1931	S-153	Shocks	Restoring/rebuilding advice, recommended rebuilder
5/2/03	1932	S-16	Shocks	Comments on shock absorber bushings
5/5/03	1932	S-16	Shocks	Shock bushing for 1929 >>
5/14/04	1932	S-16	Shocks	Description of adjustable shocks

Date	Year	Series	General category:	Key Words
	XXX		<<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>>	
5/14/04	1932	S-16	Shocks	How to adjust ride with adjustable shocks
5/14/04	1932	S-16	Shocks	Caution: Not to adjust too tight
8/31/06	1919	S-9B	Speedometer	Comments on finding a speedometer. S9 Speedos were robust
7/7/09	1930	S-14	Speedometer	Removal/install speedo gears on Warner 3 speed. Various procedure problems
10/22/01	1913	S-3	Springs/suspension	Leaf Springs
10/22/01	1913	S-3	Springs/suspension	Number of leaves
10/22/01	1913	S-3	Springs/suspension	leaf configuration
2/5/02	1913	S-3	Springs/suspension	Leaf Spring repair
2/5/02	1913	S-3	Springs/suspension	4 or 5 leaves?
5/16/02	1913	S-3	Springs/suspension	Welding leaf springs
5/16/02	1913	S-3	Springs/suspension	Leaf spring cracks
6/20/03	1913	S-3	Springs/suspension	Leaf Springs, to grease or not
6/20/03	1913	S-3	Springs/suspension	Springs with shocks
6/20/03	1913	S-3	Springs/suspension	Springs w/o shocks
1/8/07	1925	S-11A	Springs/suspension	Sources of King pins & bushings? (Have made locally. Fitting issues (reaming)
10/4/07	1928	S-12	Springs/suspension	Interchangability of S12A & B long wheelbase springs? (OK). Intersting discussion on
1/14/02	1929	S-13	Springs/suspension	Front seal part nos.
1/14/02	1929	S-13	Springs/suspension	Procedure for installing seals
1/14/02	1929	S-13	Springs/suspension	Spindle nuts
1/14/02	1929	S-13	Springs/suspension	Spindle nut lock kit number
1/14/02	1929	S-13	Springs/suspension	Procedure for spindle nut installation
9/25/06	1929	S-130	Springs/suspension	Replacement, grade 5 carriage bolts. . . . For upper rear spring perches.
4/30/08	1929	S-130	Springs/suspension	Troubleshooting and correcting wheel wobble and shimmy
1/8/02	1930	S-14	Springs/suspension	Broken Main leaf spring
1/8/02	1930	S-14	Springs/suspension	Remedies for fixing broken spring
1/8/02	1930	S-14	Springs/suspension	Heat treatment of spring
1/8/02	1930	S-14	Springs/suspension	Uniqueness of 1930 leaf springs
7/23/03	1930	S-14	Springs/suspension	Rear Spring settings for vehicle ht.
1/16/05	1930	S-14	Springs/suspension	Spring pivot assembly
7/24/07	1932	S-16	Springs/suspension	Tracking problem, w.base short on one side. Comprehensive list of things to check.
7/27/04	1933	S-18	Springs/suspension	Front end shimmy or tramp
7/27/04	1933	S-18	Springs/suspension	Likely a tire problem in this case
6/11/07	1933	S-18A	Springs/suspension	Excellent, complete advice for chasing down shimmy causes, with safe results !!
6/26/07	1933	S-18A	Springs/suspension	More discussion and case histroy on causes of shimmy. See 6/11/07 — related.
8/14/07	1933	S-18A	Springs/suspension	Definitive finale on a shimmy case. (Too much positive caster) See 6/26 & 6/11/07
4/20/09	1916 -19	S-9A	Starter	ID and connection details of Dyneto Starter/generator
12/6/06	1925	S-11A	Starter	Availability of New switch at NAPA
3/20/07	1926	S-11A	Starter	Starter jamming problems. Discusion on pinions gear clearance.
3/7/09	1928	S-12A	Starter	Troubleshooting a weak or non-functioning starter
7/11/06	1930	S-145	Starter	Starter Bendix(723-C) rear bushing clearances and lubrication
7/21/06	1930	S-145	Starter	Problems with Bendix bolt length and meshing clearances.
11/15/03	1913	S-3	Steering	Front tire wear,
11/15/03	1913	S-3	Steering	Lack of any official front end data
11/15/03	1913	S-3	Steering	Camber to be adjusted by bending axle
5/20/09	1916 -25	S9-10	Steering	Trouble shooting and parts replacement on Steering box
7/8/09	1916 -25	S9-10	Steering	Description of free play adjustment of steering box
3/12/02	1919	S-9	Steering	Steering wheel play
3/12/02	1919	S-9	Steering	Steering adjustment
3/12/02	1919	S-9	Steering	shimmy
8/3/99	1927	S-11	Steering	Front Wheel shimmy
8/3/99	1927	S-11	Steering	Steering stabilizer
8/3/99	1927	S-11	Steering	procedure for correcting shimmy
9/22/00	1928	S-12	Steering	Tie rod and connection ball wear
4/21/03	1928	S-12	Steering	Comments on front wheel shimmy
12/12/97	1929 -34	S-13-	Steering	Front end shimmy
12/12/97	1929 -34	S-13-	Steering	Front Wobble
12/12/97	1929 -34	S-13-	Steering	Procedure to trouble shoot
1/17/98	1930	S-14	Steering	Steering
1/17/98	1930	S-14	Steering	Kin pin thrust bearing problems
1/17/98	1930	S-14	Steering	troubleshooting procedure
1/17/98	1930	S-14	Steering	Fragile bearing cages in St. Box
3/18/04	1930	S-14	Steering	Steering box adjustments
3/18/04	1930	S-14	Steering	Procedure for adjusting steering
6/30/04	1930 -34	S-14	Steering	How to make a brass roller cage for steering box bearings
1/7/05	1930	S-14	Steering	Steering wheel removal procedure
4/21/05	1930 -34	S-14-16?	Steering	Gemmer Steering box
4/21/05	1930 -34	S-14-16?	Steering	Double roller bearing and single roller bearing boxes
10/23/05	1930 >>	S14 >	Steering	Steering Box Removal
10/23/05	1930 >>	S14 >	Steering	Exhaust interference with Steering column
10/23/05	1930 >>	S14 >	Steering	Rebuilt Gemmer Box
6/10/06	1930	S-14	Steering	Steering removal (RHD); details of removal and installation
11/15/07	1930	S-14	Steering	Steering free play. Use Dick Pratt Gemmer box rebuild.

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
12/6/01	1931	S-15	Steering	Restoring Steering Wheel
3/14/02	1931	S-15	Steering	King pins
3/14/02	1931	S-15	Steering	How to refurbish king pins
3/14/02	1931	S-15	Steering	How to make king pins
6/19/05	1931	S-15	Steering	Tie Rod Ends
6/19/05	1931	S-15	Steering	Tie rod Teflon pieces
6/19/05	1931	S-15	Steering	Source of Tie rod Teflon pieces
6/19/05	1931	S-15	Steering	Source of tie rod balls
2/1/03	Race Ca		Steering	Franklin steering gear adjustment
2/1/03	Race Ca		Steering	Reassembly procedure
6/9/06	1929	S-137	Tires	Tire Alignment: Tire & Hubcap trademarks, valve stem, lock ring gap
5/20/06	1931	S-15	Tires	Tire sizes and advice on tires/tire condition; Advice on high speed gears
12/10/99	1932	S-16	Tires	Tires
12/10/99	1932	S-16	Tires	Discussion of brands and sizes
9/7/99	1908 -10	G	Tires	Proper tires for '08
5/26/03			Tires	Cleaning white sidewall tires
6/14/06	1928	S-12	Top & Top Bows	Coupe top bows; bow details from similar, later cars
8/11/09	1928	S-12	Top & Top Bows	Correct crown in bows for a Victoria Brougham top
5/16/06	1929 -34		Top & Top Bows	Source of 63-inch wide top material
1/2/08	1929	S-130	Top & top bows	Wants dwgs of conv. Top (not indexed-hard t o find). Best to find a similar car and copy.
7/26/04	1904	A	Transmission	Shimming high speed band controller
3/4/01	1905	A	Transmission	Transmission, shifting cone
8/19/04	1913		Transmission	Good philosophical discussion of pros and cons
10/13/08	1917	S-9	Transmission	Zero play and zero preloadon Gurney Radio Thrust bearing on main shafts
12/7/09	1919	S-9B	Transmission	Transmission Bearing replacement and availability. Remaking bronze main shft bushing. SI
2/7/08	1922 -34	S-10-19	Transmission	Sidedraft Transmission installation check list. Comprehensive, safe procedure.
9/27/04	1923	S-10	Transmission	Transmission lock, no key
9/21/04	1924	S-10	Transmission	Transmission Noise
2/12/06	1924	S-10	Transmission	Repairing/replacing broken transmission
2/15/06	1924	S-10	Transmission	Repairing/replacing broken transmission
9/1/02	1927	S-11	Transmission	Modern transmission seals
9/17/02	1927	S-11	Transmission	Modern seals for input shaft
11/8/02	1928	S-12	Transmission	Check entire driveline
10/25/04	1928	S-12	Transmission	Transmission oil leaks
10/25/04	1928	S-12	Transmission	Instructions for trans rear disassembly to access seals and slingers
10/29/04	1928	S-12	Transmission	Transmission oil leaks
10/29/04	1928	S-12	Transmission	Method for locating oil leaks
6/29/05	1928	S-12	Transmission	Transmission Removal procedure
6/29/05	1928	S-12	Transmission	Transmission disassembly procedure
6/29/05	1928	S-12	Transmission	Axial gear movement on cluster shaft
9/25/07	1928	S-12	Transmission	Epoxy repair of a leaking Aluminum transmission crack. Cautions and procedure.
8/23/03	1929	S-13	Transmission	Transmission gaskets and bearings
8/23/03	1929	S-13	Transmission	Warner T-3
8/23/03	1929	S-13	Transmission	Sources of gaskets & bearing
8/23/03	1929	S-13	Transmission	Hand cut gaskets
8/23/03	1929	S-13	Transmission	Match bearing and purchase locally
12/12/97	1930	S-14	Transmission	Transmission, 4 speed
12/12/97	1930	S-14	Transmission	Shifting technique
1/16/05	1930	S-14	Transmission	transmission disassembly, 4 speed
9/20/07	1931	S-15	Transmission	Interesting discussion about Warner and Detroit boxes. Shifting technique, proper
8/19/04	1913		Transmission, Overdrive	Overdrive in older cars
11/8/02	1928	S-12	Transmission, Overdrive	Overdrive, noise problem
11/8/02	1928	S-12	Transmission, Overdrive	Bob Green overdrive business successor
11/15/02	1928	S-12	Transmission, Overdrive	Overdrive, noise problem
2/3/03	1928	S-12	Transmission, Overdrive	Overdrive, removal problems
4/6/03	1928	S-12	Transmission, Overdrive	overdrive installation after repair
4/6/03	1928	S-12	Transmission, Overdrive	Source of OD repair
4/6/03	1928	S-12	Transmission, Overdrive	Problem of jammed free-wheeling or OD lever
4/27/03	1928	S-12	Transmission, Overdrive	Comments and operation of Overdrive
8/24/00	1931 -32	S-15-16	Transmission, Overdrive	Overdrive electrical diagram
8/23/08	1926	S-11	Troubleshooting	Suggestions on finding cause of rough running engine under load
6/30/08	1927	S-11B	Troubleshooting	General engine troubleshooting, vapor lock check list
10/13/08	1927	S-11B	Troubleshooting	Stored a long time; no spark. Trouble shooting tips, mainly ignition
10/28/05	1930	S-14	Troubleshooting	Flooding
10/28/05	1930	S-14	Troubleshooting	Float Level
8/24/05	1933	S-18	Troubleshooting	Intermittent running problems
8/24/05	1933	S-18	Troubleshooting	Dirt in carb
8/24/05	1933	S-18	Troubleshooting	Procedure for finding dirt
8/23/08	ALL Yrs	ALL	Troubleshooting	Discussion of Vapor Lock, changes in gasoline, use of kero to reduce
9/10/08	1929	S-130	Upholstery	Comments on restoring the sedan sun visor
1/4/08	1930	S-14	Upholstery	Type of leather binding used on seats, carpet and kick panel. Source for making binding.
11/21/01	1910	G	Wheel bearings	Wheel Bearings

Date	Year	Series	General category:	Key Words
	XXX		<<<<< Sorted by GEN. CATEGORY then by YEAR >>>>>	
11/21/01	1910	G	Wheel bearings	Availability
11/21/01	1910	G	Wheel bearings	Part numbers
7/2/05	1927	S-11	Wheel bearings	Rear Wheel side movement
7/2/05	1927	S-11	Wheel bearings	pressed wheel bearing problems
7/2/05	1927	S-11	Wheel bearings	Rear wheel bearing and or shaft movement
4/30/05	1928	S-12	Wheel bearings	Front Wheel bearing seals, modern
4/30/05	1928	S-12	Wheel bearings	Procedure for installing front wheel seals, modern
1/14/02	1929	S-13	Wheel bearings	Front Wheel bearings
1/14/02	1929	S-13	Wheel bearings	Timken part nos.
4/17/05	1930	S-14	Wheel bearings	Poor Braking
4/17/05	1930	S-14	Wheel bearings	Leaking grease seals
4/17/05	1930	S-14	Wheel bearings	Modern grease seal numbers
4/17/05	1930	S-14	Wheel bearings	Interchangeability of seals and bearings. S12-15
4/17/05	1930	S-14	Wheel bearings	Installation procedure, shaft/wheel bearing seals
7/9/06	1925	S-11A	Wheel bearings/seals	Advice on bearing and seals part numbers and interchangeability
4/3/06	1929	S-13	Wheel bearings/seals	Rear axle and bearing part numbers for early and late (July'29)
5/23/06	1929 -34	S-13-18	Wheel bearings/seals	Wheel bearing and seal part numbers
6/22/06	1930	S-14	Wheel bearings/Seals	Rear wheel bearings and shims; source of shim stock & hole punch
5/20/06	1932	S-16	Wheel bearings/seals	Wheel bearing and seal part numbers; Installation procedure & advice
9/29/06	1908	G	Wheels	Installing lock rings when replacing tires.
2/18/10	1909 -12	G,D	Wheels	Tire removal, with Goodrich Quick Detach rims, '10 G. Use a clamp or sp. Tool
6/20/08	1915	S-8	Wheels	Proper bold/nut orientation in hubs on reassembling wheels
9/2/06	1919 -29	S-9-S-12	Wheels	Home made tool to retract Firestone rims. Clever. Also shows older rim jack use.
9/7/06	1919 -29	S-9-S-12	Wheels	Availability of new Rim Jacks from Universal Tire. Avail in different diameters.
9/23/06	1919 -29	S-9-S-12	Wheels	Repro of Rim Jack instructions (Atlas rim tool)
5/29/03	1923	S-10	Wheels	Wooden wheel repair or replacement
5/29/03	1923	S-10	Wheels	Wooden wheel craftsman
5/29/03	1923	S-10	Wheels	difficulty in finding wire wheels
5/29/03	1923	S-10	Wheels	Another source of wooden wheel work
4/28/04	1923	S-10	Wheels	Stain/varnish vs painted wheel spokes
9/16/03	1927	S-11	Wheels	Fr & Rear Wood wheels different?
9/16/03	1927	S-11	Wheels	Hub bore is different. Check bolt circle dia.
3/14/01	1928	S-12	Wheels	Wire Wheels
3/14/01	1928	S-12	Wheels	Wheel sizes
10/21/04	1928	S-12	Wheels	Proper removal and installation on wood and wire wheels
1/20/08	1928	S-12B	Wheels	Stuck wheel. Procedure for loosening brake adjustment nuts/bolts and freeing rusty
10/19/03	1929	S-13	Wheels	Wheel interchange, '29 S-13 and other cars
2/5/06	1929	S-13	Wheels	Wood wheels, differences, restoration and finishing advice
3/27/06	1929	S-13	Wheels	Wood wheels, differences, restoration and finishing advice
4/8/09	1929	S-13	Wheels	When to Use flaps and when to use rim strips on various types of wheels
5/5/07	1930 -34	S-13-17	Wheels	Source of new 19 inch lock rings. Advice on using old vs new lock rings.
7/23/07	1930	S-14	Wheels	Wooden wheels, special clamp bolts were peened. Difficult to find replacements. Possible
9/20/07	1931	S-15	Wheels	Question about proper lug bolts on wood spoke wheel sedan. (They are correct)
11/22/04	1932	S-16	Wheels	Procedure to remove drum and hubs
11/22/04	1932	S-16	Wheels	Advice on safe removal
1/28/09	1932	S-16	Wheels	Suggesting SS spokes (look further into this, SS can have creep over time-twmm)
6/29/06	ALL Yrs	ALL	Wheels	Painting wood wheels; prep procedure; comments on color
2/12/09	ALL	ALL	Wheels	Source to respoke/adjust wire wheels
8/19/03			Wheels	Source of new wood wheels
1/13/01	1926	S-11	Windshield	Split Windshield, rubber gasket
1/13/01	1926	S-11	Windshield	Source of Windshield Gaskets
11/16/03	1927	S-11	Windshield	Swing out windshield rubber
11/16/03	1927	S-11	Windshield	Suggested source of W/S rubber
1/10/04	1927	S-11	Windshield	Windshield rubber seals
1/10/04	1927	S-11	Windshield	Sources of W/S seals to try (Ford) for bottom frame seal
1/10/04	1927	S-11	Windshield	Sources of W/S seals to try (Ford) for bottom frame seal
3/23/04			Windshield	Windshield frame rubber seals
3/23/04			Windshield	Use thinner supermarket freezer laminated safety glass
3/23/04			Windshield	Sources of seals and glass
2/27/06	1922 -34	S10-19	Windshield wiper	Care & lube of Vacuum WS wiper motors; source of motors & parts
12/7/05	1925	S-11	Windshield wiper	Windshield wiper motor, electric
5/6/07	1930 -31	S-13-14	Windshield wiper	Correct motor for a 30-31 Franklin Is Trico Model S (inside). Suggested source.
5/27/07	1933	S-18A	Windshield wiper	Use of Vaselne to lubricate paddle wiper and other parts on Trico Vacuum wiper.
6/11/07	1933	S-18A	Windshield wiper	Sources of vacuum wiper rebuilds. Comments about vacuum vs electric wipers.
3/10/08	1920 -23	S-9-10	Windshield/Windows	V-Windshield: How to remove small brass screws on br. blocks holding glass
4/24/06	1928 -34	S-12-S19	Windshield/Windows	Instructions for Installing Windshield seals on swing out windshields
10/29/07	1929	S-130	Windshield/windows	Problems and discussion on fitting a windshield and swing arms (quadrants).
5/16/06	1932	S-16	Windshield/Windows	Door window channel; comments on types of glass
1/5/10	1933	Olympic	Windshield/Windows	Dealing with rusty windshield frame, windshield frame maker, glass fitting problems
4/24/09	1904 -28	A-S12	Wooden Chassis issues	Will Emerald ash borer (insect from China) affect future of wood frames?
6/8/09	1912	S-1	Wooden Chassis issues	One man's solution to repairing a sagging frame
12/7/09	1926	S-11A	Wooden Chassis issues	Checking for problems. Maintenance of one in reasonably good condition.