

The MOTORISTS HANDBOOK of DETROIT

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INDEX

SHORT TRIP MAPS

- Trip No. 1—Detroit to Flint, including Birmingham, Pontiac, Drayton Plains, Waterford, page 8.
- Trip No. 2—Including Dearborn, Inkster, Wayne, Canton, Plymouth, Howlett, page 10
- Trip No. 3—Including Utica, Disco, Washington, Romeo, Almont, Berville, Armada, Richmond, Lenox, Mt. Clemens, page 31
- Trip No. 4—Detroit to Toledo, via Ypsilanti, including Dearborn, Inkster, Wayne, Canton, Ypsilanti, Milan, Dundee, Ida, Toledo, Erie, LaSalle, Monroe, Newport, Trenton, Sibley, Wyandotte, Ford City, pages.....34, 35
- Detroit to Toledo, direct route, page 35
- Trip No. 5—Including Royal Oak, Rochester, Orion, Pontiac, Cass Lake, Pine Lake, Orchard Lake, pages 36, 37
- Trip No. 6—Detroit to Jackson, page 46
- Trip No 7—Including Dearborn, Inkster, Wayne, Ypsilanti, Ann Arbor, Whitmore Lake, Brighton, New Hudson, Novi, Farmington, Redford, Sandhill, Greenfield, page 53
- Trip No. 8—Detroit to Port Huron, page 56
- Trip No. 9—Including Dearborn, Inkster, Wayne, Romulus, Waltz, Grape, Monroe, Newport, Trenton, Sibley, River Rouge, Delray, page..... 62
- Trip No. 10—Including Dearborn, Inkster, Wayne, Plymouth, Northville, Walled Lake, Novi, Farmington, N. Farmington, Orchard Lake, Cass Lake, Pontiac, Cady's Corners, Frazer.64, 66
- Shore Line Trip to Mt. Clemens, page 62
- Trip No. 11—Including Royal Oak, Birmingham, Pontiac, Utica, Mt. Clemens, page 66
- Trip No. 12—Detroit to Buffalo, by way of London, Hamilton and Niagara Falls, Ont., pages.....70, 71
- Trip No. 13—Buffalo to Detroit, via Niagara Falls, Hamilton, London, Ont., pages71, 72
- Trip from Windsor to London, Ont., page 73

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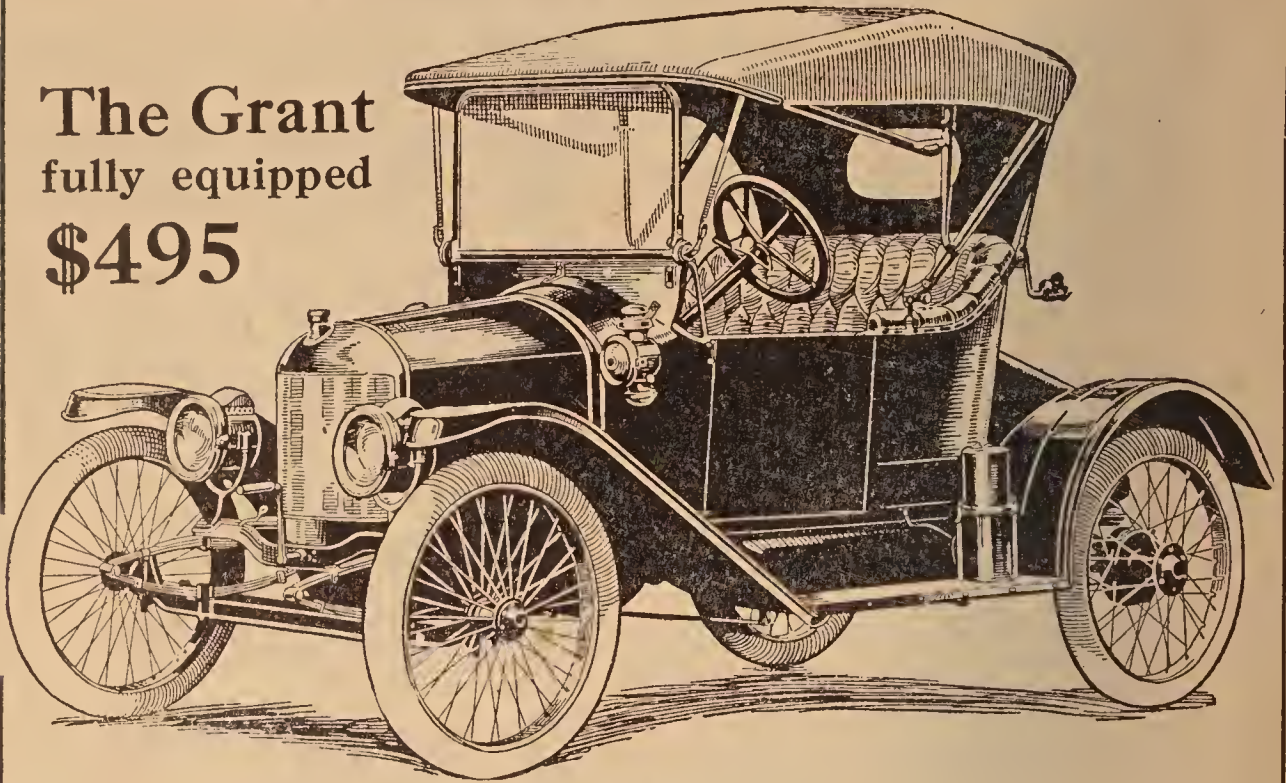
MISCELLANEOUS

- About Your Tires, page..... 50
- American League Schedule, page... 48
- Band Concerts, page..... 73
- Boats and Tackle, page..... 60
- Belle Isle, Motorists Paradise, page. 57
- Carburetor Suggestions, page..... 78
- Care of Spare Tires and Tubes, page. 35
- Care of the Hands, page..... 66
- City Map, pages.....18, 19
- Cleaning Automobile Tops, page.... 22
- Detroit Motor Laws, pages 4, 6, 9, 10, 12
- Detroit Cemeteries, page..... 37
- Detroit Parks, page..... 47
- Detroit Railway Depots, page..... 30
- Digest of Ontario Motor Laws, page 68
- Detroit-Windsor Ferry, page..... 68
- Earmarks of the Auto Boob, page... 31
- Emergency Tire Repairs, page..... 50
- Emergency Tire Fillers, page..... 50
- Garage and Repair Shop List, pages20, 21, 22
- Good Roads Map, pages.....40, 41
- Have Pity on the Other Fellow, page 22
- Improved Roads, pages.....52, 53
- Improvised Vise, An, page..... 35
- Michigan Motor Laws, pages.....
.....13, 14, 15, 23, 24, 26, 28, 30
- Michigan Fish Laws, page..... 60
- Motor Trades Directory, page..... 79
- Motor Troubles, page..... 58
- Non-Freezing Cooling Fluids, page.. 8
- Popular Fishing Lakes, page..... 60
- Preserving Rubber Mats, page..... 62
- Removing Carbon Deposits, page.... 66
- Some Tips for Car Owners, page... 49
- Taking Your Car into Canada, page. 68
- Transporting Automobiles on Boats, page 45
- Trout Fishing, page..... 60
- Taxicab Rates and Regulations, page. 51
- Walkerville-Detroit Ferry, page..... 22
- Washing the Car, page..... 56
- Wayne County Concrete Roads, page 45
- When a Nut Sticks, page..... 46
- Wolverine Automobile Club, page... 54

GRANT \$495

THE CAR THAT HAS MADE THE HIGH GRADE
AUTOMOBILE AT A LOW PRICE A REALITY

The Grant
fully equipped
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The Grant is the first standard, high grade, fully equipped car to sell for less than five hundred dollars. It is the first low priced car to embody all the "up-to-the-minute" ideas in design and construction, as the same materials and workmanship that have hitherto only been found on big expensive motor cars.

MOTOR—4 cylinder, 4 cycle, $2\frac{3}{4} \times 4$ in. Cylinders and crank case cast en bloc. Inlet and exhaust passages cast integral. Valves enclosed; three point suspension. 21 horse power.

IGNITION—Magneto, high tension. (Swiss).

LUBRICATION—Constant level, splash system. Automatic drop feed.

CARBURETOR—Float feed automatic.

COOLING—Thermo syphon with fan.

DRIVE—Propeller shaft with ball joint torque tube.

REAR AXLE— $\frac{3}{4}$ floating tubular type mounted on Hyatt roller bearings. Load carried on housings. Drive shaft, special alloy steel, heat treated.

FRONT AXLE—Drop forged I-beam section, heat treated.

TRANSMISSION—Sliding gear. Two forward speeds and reverse integral with rear axle. All gears and shafts of special alloy steel, hardened and ground, roller and ball bearings.

BRAKES—Foot brake, external contracting. Emergency brake, internal expanding, both brakes on rear wheels. Extra large braking surfaces with asbestos linings.

CONTROL—Center shift lever, spark and throttle advance under wheel. Foot brake and clutch operated with one pedal.

CLUTCH—Cone, leather face, fully adjustable.

WHEELS—28x3 wire, English type, 28x3 in. Bailey tread tires.

SPRINGS—Two full elliptic front springs, one semi-elliptic cross spring on rear, special alloy steel.

STEERING GEAR—Pinion and gear fully adjustable.

WHEEL BASE—90 inches.

COLOR—Body, black; chassis, rich red.

WEIGHT—Complete, 1075 pounds.

GASOLINE MILEAGE—30 miles per gallon.

GASOLINE CAPACITY—5 gallons, tank in cowl.

STANDARD EQUIPMENT—Top, top envelope, horn, Stewart 60 mile Speedometer, oil side and tail lights, acetylene head lights with generator. Non-rattling, folding, one-piece windshield, jack, tool kit and tire repair kit. Equipment finished in black enamel and nicked.

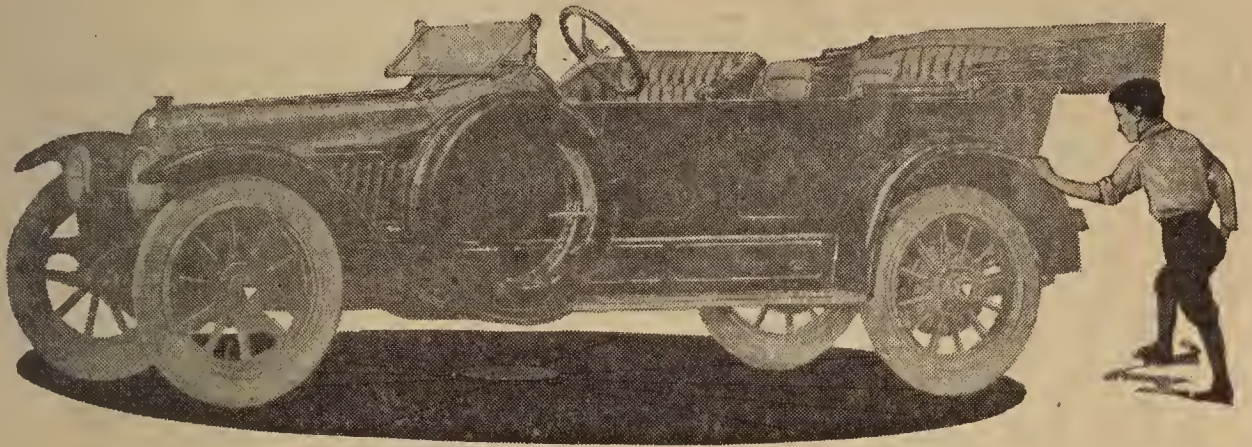
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Let the new KRIT itself win you. Ride in the car—drive it yourself—test it in any way you wish. We are sure the car will convince you, and the price will prove an additional reason for buying.

KRIT MOTOR CAR COMPANY, Detroit

Detroit Motor Laws

Section 1. Rules to be Observed.—The driver or operator of every vehicle driven or operated upon the streets, highways and public places within the limits of the City of Detroit shall conform to and observe the following rules:

Sec. 2. Vehicles—How to be Driven.—Vehicles shall be driven in a careful manner and with due regard for the safety and convenience of pedestrians and of other vehicles. When one vehicle overtakes another, it shall pass to the left side of the overtaken vehicle and not pull over to the right until clear thereof. All vehicles meeting shall pass each other to the right. Vehicles shall keep to the right side of the street except when necessary to turn to the left in crossing or in overtaking another vehicle: Provided, That no vehicle shall pass on the left of a street car when going in the same direction with such street car.

Sec. 3. Turning to Right.—Any vehicle turning into another street to the right shall turn the corner as near the right hand curb as practicable.

Sec. 4. Turning to Left.—Any vehicle turning into another street to the left shall turn around the center of the intersection of the two streets.

Sec. 5. How to Stop.—No vehicle shall stop with its left side to the curb; and when left standing must be parallel with the curb.

Sec. 6. Not to Drive When Intoxicated.—No person while under the influence of liquor shall drive any kind of a vehicle upon the streets, highways or public places of the city.

Sec. 7. Warning When Stopping.—No vehicle shall be slowed up or stopped without the driver thereof giving those behind warning of his intention so to do by proper signal.

Sec. 8. Speed at Crossings.—No vehicle shall cross a main thoroughfare or a street upon which there is a street car track, or make a turn thereon at a rate of speed exceeding one-half the legal speed limit.

Sec. 9. Signal Upon Turning.—Drivers or operators of vehicles before turning shall make sure that such movement can be made in safety and give a plain signal to others upon the street by extending the hand or otherwise.

Sec. 10. Lights.—Every licensed motor vehicle standing or being operated or driven on any public highway within the city limits shall be provided during the period from one hour after sunset to one hour before sunrise with at least two lighted lamps on the front, the light of such front lamps to be visible 150 feet in the direction in which such motor vehicle is headed or proceeding. There shall also be provided one rear light on such vehicle which shall display a red light, visible from the rear at least 150 feet, and a white light the rays of which shall shine upon the number plate carried on the rear of such vehicle. Provided, That motor bicycles

or motor cycles shall be required to display but one lighted lamp, such lamp to be displayed on the front of such vehicle so that it shall be visible 100 feet in the direction in which the vehicle is headed or proceeding: Provided, That whenever a motor cycle is being operated or left standing on the following streets: Woodward avenue, Jefferson avenue east, Michigan avenue, Gratiot avenue, Grand River avenue, Fort street west, East Grand boulevard from Woodward avenue to Dequindre railroad crossing, Belle Isle bridge and all streets within the half-mile circle, that headlights and such other exposed front lights as produce an objectionable glare shall be either turned out or the glare eliminated by some satisfactory means provided therefore: Provided, That on other streets not specified above headlights and such other exposed front lights as produce an objectionable glare shall be so adjusted that the central or focus rays of such lights shall be so projected as to strike the ground at a point not to exceed 125 feet from the front of such motor vehicle.

Sec. 11. Rate of Speed.—All vehicles (other than street cars) shall be driven at a rate of speed not to exceed six miles per hour, except as herein otherwise provided.

Sec. 12. Speed of Automobiles.—Automobiles and motor cycles shall be driven at a rate of speed upon said streets (and upon Belle Isle bridge and its approaches) not to exceed twelve miles per hour in the business portion of said city (which business portion is hereby defined to be that territory or streets within the one-mile circle, so-called); and outside of the business portion of said city, at a rate of speed not to exceed fifteen miles per hour.

Sec. 13. Speed in Parks and Boulevards.—Automobiles and motor cycles shall be driven at a rate of speed upon the parks and boulevards not to exceed fifteen miles an hour.

Sec. 14. No Testing in Parks.—It shall be unlawful for any person, persons, co-partnership, firm or corporation to run or drive, or cause to be run or driven any automobile or motor cycle upon any of the parks or boulevards of this city for the purpose of testing any such vehicle.

Sec. 15. Testing Defined.—Testing vehicles within the meaning of this ordinance is hereby defined to be the running or driving of any such vehicle for the purpose of ascertaining their fitness for service and before its sale by the

(Continued on Page 6)

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THE CIGAR OF CIGARS

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PLAIN AND STAGGARD TREAD
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Mileage
Safety and
Service

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cycle
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Garagemen
Tire Repairmen

Write Today
for Catalog
and Prices. We
Ship Everywhere

(Continued from Page 4)

manufacturer or others owning or operating the same.

Sec. 15-a. Nothing herein contained shall be construed to prohibit the officers, men, apparatus and vehicles of the Police and Fire Departments and the Sheriff's office from proceeding at such rate of speed as may be necessary for the proper discharge of their respective duties. (Approved February 4th, 1913.)

Sec. 16. Noise.—It shall be deemed a violation of this ordinance for any person in charge or control of any vehicle to make with such vehicle or any device connected therewith any excessive noise to annoy the public, or to open the muffler on any vehicle, or to permit such vehicle or any device thereon to emit smoke, gas or steam within the streets, highways or public places of this city.

Sec. 17. Brakes.—Each automobile and motorcycle upon any of the streets, highways or public places of this city shall be provided with adequate brakes, and with a suitable bell or horn for giving warning or signal of its approach.

Sec. 18. Certain Signals Prohibited.—It shall be unlawful for any person to use upon any automobile or other vehicle a warning signal similar to that used by the Fire or Police Department of the City of Detroit.

Sec. 19. Bicycles.—All persons using bicycles shall conform to the general rules as in this ordinance set forth. The rate of speed shall be the same as provided in sections 12 and 13 hereof.

Each bicycle and motor cycle shall be equipped with a suitable bell or horn for giving warning or signal of its approach, and during the hours when the city lights on the streets are lighted shall be equipped with a suitable headlight.

It shall be unlawful for persons to ride bicycles on the streets, highways or public places curving to and fro thereon, or to ride bicycles without having their hands on the handlebars, or for more than two persons to ride abreast upon such bicycles.

No person shall ride any bicycle upon any sidewalk in this city except upon sidewalks bordering upon unpaved streets, the roadways of which are in an impassable condition for such vehicles: Provided; That no person shall ride upon any sidewalk upon any such street at a rate of speed exceeding five miles an hour.

Sec. 20. Distance From Street Cars.—The driver or operator of every vehicle shall give some plainly visible or audible signal of his approach to other vehicles and pedestrians upon the streets and shall keep such vehicles at not less than 6 feet from the running board or lower step of any street car which is stopping

(Continued on Page 9)

LA AZORA
THE CIGAR OF CIGARS



SERVICE FIRST Is very important to Tourists. We can give you this service because we have the largest, lightest and best located Garage in the City.

We have a fully equipped repair department. We have the best mechanical ability that money can hire. We have a day and night service. We know how to wash a car right—and do it.

We have a full line of tires and accessories. We will buy your car or sell you a new or used one. Our rates are reasonable in comparison to the quality of service rendered.

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BEST WASH AND POLISH WITH NIGHT STORAGE \$2.25

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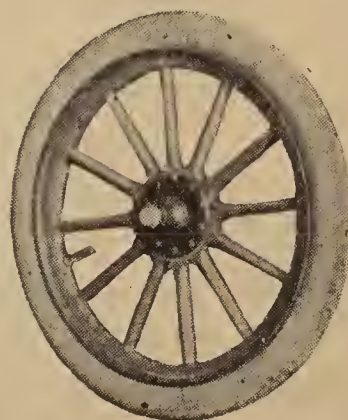
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High Grade

DELIVERY WAGONS

And for Skilled Workmanship, Reliability
and General Efficiency, the firm of "W.
Parent" STANDS SECOND TO NONE

Phone Main 2858, or drop in



Trip No. 1 Detroit to Flint

60.2 Miles

- 0.0—City Hall.
- 6.0—R. R. crossing—straight ahead to
- 17.0—Birmingham — Straight through with trolley to Court House at
- 24.4—Pontiac.
- 24.6—Turn left on Oakland—straight out with trolley line.
- 28.7—Cross R. R.
- 29.4—Cross R. R. Drayton Plains—Straight ahead.
- 31.6—Waterford—Straight ahead.
- 33.2—Left fork.
- 33.9—Turn left—straight on.
- 53.5—Cross R. R.
- 58.1—Cross R. R.
- 60.2—Flint.

FLINT TO DETROIT

60.2 Miles

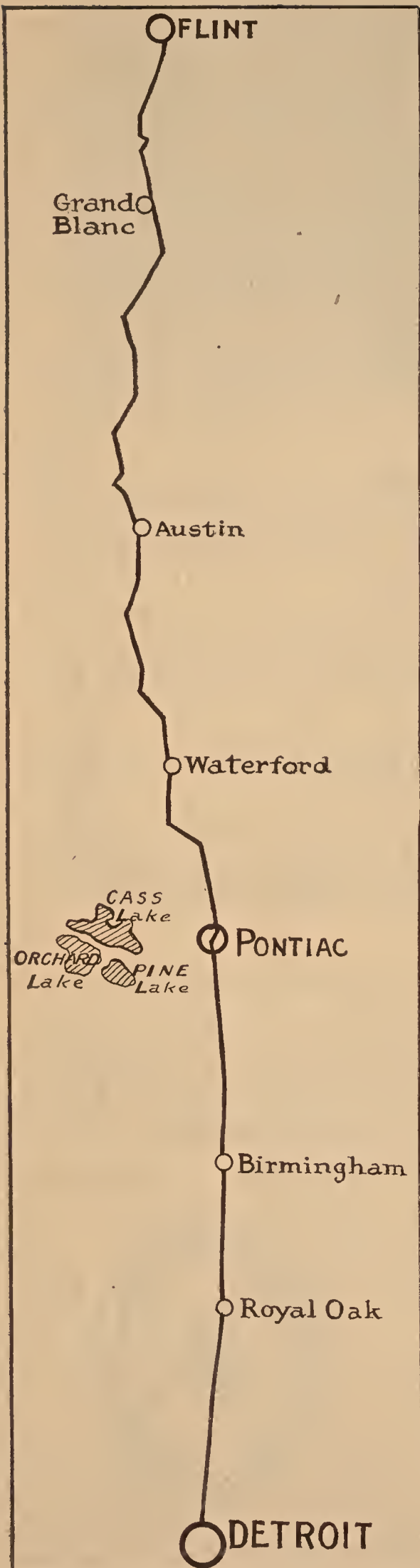
- 0.0—Court House—go southeast on Saginaw St.
- 2.1—Cross R. R.
- 6.7—Cross R. R.
- 7.7—Crossroads—left fork.
- 28.6—Waterford.
- 30.8—Drayton Plains.
- 35.1—Pick up trolley on Baldwin.
- 35.8—Pontiac—Court House on Saginaw St.
- 36.5—Cross R. R.
- 33.2—Birmingham—Straight through.
- 60.2—Detroit—City Hall.

Non-Freezing Cooling Fluids

While there are numerous mixtures used in motor cooling systems to prevent freezing in extremely cold weather, denatured and wood alcohol are perhaps most commonly used and have proven eminently satisfactory. The proportions are as follows:

Denatured Alcohol Solution			
Parts Alcohol	Parts Water	Freezing Point	
5	95	30	
15	85	20	
22	78	10	
28	72	0	
33	67	-10	
40	60	-20	
48	52	-30	
55	45	-40	

Wood Alcohol			
Parts Alcohol	Parts Water	Freezing Point	
3	97	30	
8	92	20	
16	84	10	
23	77	0	
34	66	-10	
38	62	-20	



or has stopped for the purpose of taking on or discharging passengers, and if by reason of the presence of other vehicles at the place where such car is stopping or has stopped or by reason of the narrowness of the street, it is not possible to preserve the distance of 6 feet from the running board or lower step as herein prescribed, then the driver or operator of such vehicle shall stop the same at least 6 feet from the rear of such car and remain standing until such car has taken on or discharged its passengers and again started. In passing a car which is stopping or has stopped for the purpose of taking on or discharging passengers, the driver or operator of such vehicle shall check said vehicle to one-half the lawful speed and pass said car at no greater speed. The driver of any such vehicle shall when crossing any street railroad track or steam railroad track check his vehicle to one-half the lawful speed and cross such street railway track or steam railroad track at no greater speed. (Approved June 27, 1911.)

Sec. 21. **Processions.**—No vehicle shall be driven through a procession except with the permission of a police officer.

Sec. 22. **Right-of-Way.**—Vehicles being driven on a main thoroughfare, such as Woodward, Jefferson, Fort, Grand River, Michigan, John R., Cass and Gratiot avenues, shall have the right-of-way over other vehicles being driven on intersecting streets.

Sec. 23. **Slowly Moving Vehicles.**—Slowly moving or heavily laden vehicles shall not be driven upon the streets and highways abreast, but one must follow behind the other and keep as near to the right hand curb as possible.

Sec. 24. **Backing to Curb.**—No vehicle shall remain backed up to the curb except it be actually loading or unloading, and in such case no longer than the actual loading or unloading requires.

Sec. 25. **Horses to be Turned.**—The horse or horses attached to the vehicle backed up to the curb shall be turned at right angles to the vehicle and in the direction in which the traffic upon that side of the street is moving.

Sec. 26. **How Long May Stand.**—No vehicle shall remain standing at the curb between the hours of 8 a. m. and 6 p. m. for a longer period than 30 minutes on the portions of the following named streets, viz.:

Woodward avenue, from Adelaide street to the river; Michigan avenue, from Woodward avenue to Washington boulevard; Fort street, from Wayne street to Woodward avenue; Gratiot avenue, from Brush street to Woodward avenue; Monroe avenue, from Randolph street to Woodward avenue; Griswold street, from Clifford street to the river, State street, from Griswold street to Woodward avenue; Grand River avenue, from Cass avenue to Woodward avenue; Cadillac Square, from Woodward avenue to Randolph street; Congress street, from Wayne to Brush street; Larned street,

(Continued on Page 10)

Studebaker

Six

Electrically Started
Electrically Lighted
Seven Passenger

\$1575

*“Buy it because it’s a
Studebaker SIX”*

Reason enough.

It means that you *get more and pay less.*

More in car, because it’s a big, beautiful, roomy, efficient “Six” —*manufactured* in the Studebaker plants.

More in service, because the Studebaker idea of service is to *serve* the owner with every facility available.

The Studebaker SIX

Landau Roadster - \$1800
Sedan - - - - - \$2500

The Studebaker FOUR

Touring Car - - - \$1050
Landau Roadster - \$1200

DELIVERY CAR - \$1150

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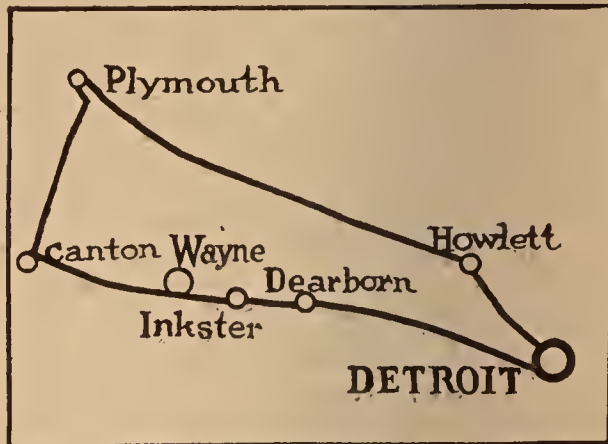
DETROIT BRANCH

Woodward and Charlotte Aves.

Trip No. 2

Including Dearborn, Inkster, Wayne, Canton, Plymouth, Howlett, Detroit—51.7 Miles

- 0.0—City Hall—Out Michigan Ave. following trolley.
10.1—Dearborn.
14.2—Inkster.
17.3—Wayne.
22.0—Canton—Turn right.
27.1—Turn right.
27.6—Turn left.
28.9—North on Main St. to Plymouth—Leave on Main St. going north.
29.2—Cross R. R.
41.3—Cross R. R.
42.7—Turn right.
43.2—Turn left.
45.7—Cross R. R.
46.4—Pick up trolley line and follow.
51.4—Turn right on Woodward Ave.
51.7—Detroit—City Hall.



(Continued from Page 9)

from Woodward avenue to Cass street; Farmer street, from Monroe avenue to Gratiot avenue.

Sec. 27. To Move Upon Request.—Any vehicle standing at the curb within the half-mile circle between the hours of 8 a. m. and 6 p. m. shall move away from such curb at the request of a police officer or the owner of the abutting property.

Sec. 28. Not Stand at Intersection.—No vehicle shall stand within any street intersection nor nearer than 10 feet of the lot line on the intersecting street.

Sec. 29. Cross-Walks.—No vehicle shall stop at any cross-walk for a longer period than necessary to permit the occupants to alight or persons enter said vehicle, or in any such manner as to obstruct free passage upon such cross-walk.

Sec. 30. Not to Obstruct Street.—No vehicle shall stop on any street except within two feet of the curb, or in such way as to obstruct free passage of the street.

Sec. 31. Stop When Signalled.—The driver of any vehicle shall stop and start upon the signal from a police officer.

Sec. 32. Fire Department and Police Right of Way.—The officers and men of the Fire Department and Fire Patrol, with their fire apparatus of all kinds, when going to or on duty at or returning from a fire, and the officers and men and vehicles of the Police Department and Sheriff's Office, and ambulance shall have the right-of-way in any street and through any procession, except over vehicles carrying United States mail.

Sec. 33. Blockade.—No vehicle shall be allowed to remain upon, or be driven

through any street of the City of Detroit so as to wilfully blockade or obstruct the said street; and no vehicle shall be so overloaded that the horse or horses or motive power shall be unable to move it.

Sec. 34. Advertising Vehicles.—No vehicle used exclusively or primarily for advertising purposes or vehicle displaying advertising matter shall be allowed in that part of the City of Detroit bounded on the east by the east line of Beaubien street and on the west by the west line of Second avenue and on the north by the Boulevard. Such vehicles when in use outside of said limits shall, between the hours of 8 o'clock p. m. and 6 o'clock a. m., carry an 8-candle power lamp attached to the dashboard thereof, and a 4-candle power lamp attached to the tailboard thereof and no other or different light shall be permitted: Provided, That no such vehicle shall be allowed to cross Woodward avenue south of Adams avenue.

Sec. 35. Police Department to Control.—The Police Department shall have all powers and duties in relation to the management of the vehicular traffic. Whenever the Police Department shall deem it advisable for the public safety or convenience temporarily to close any street, or parts of streets, to vehicular traffic, or to vehicles of certain descriptions, or to divert the traffic thereon, or to divert or direct the course of pedestrian travel, said Department shall have power and authority to do so.

Sec. 36. Ordinance To Be Posted.—The Police Department shall see that this ordinance is posted in all public stables and at hack, cab and other sta-

(Continued on Page 12)

We Build

Detachable Tops of Pantasote or
Metal for Touring Cars
or Roadsters

At Reasonable Prices



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AUTO BODY AND
WHEEL REPAIRING

Let us do your Motor Body Building,
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Grease Removed by
Distolite Vapor

Gasoline
Storage
Oils

OPEN DAY
AND NIGHT

Automobile Laundry
1221 Woodward Avenue
Phone North 2302

(Continued from Page 10)

bles, and shall keep copies of them at all of its stations and issue them upon application. And it shall be the duty of the owner and person in charge of all public stables, garages and other places where vehicles of any description are kept for hire to see that this ordinance is kept posted therein.

It shall also be the duty of all persons keeping and operating delivery wagons, trucks, etc., to keep a copy of these regulations posted in conspicuous places in their respective stables.

Sec. 36a. **Accidents.**—In case of accident to or collision with person or property upon any of the public streets, parks or parkways of the City of Detroit, due to the driving or operation thereon of any vehicle, the person so driving or operating such vehicle shall stop and give such reasonable assistance as can be given and shall upon request of the person injured or any other person give such person his name and address, and if not the owner, the name and address of the owner of such vehicle, together with the registered number of such vehicle, in case such vehicle is motor propelled. (Approved June 27, 1911.)

Sec. 36b. **Hitching.**—It shall be deemed a violation of this ordinance for any person to hitch onto or get upon or take passage on any vehicle which is passing through or upon any of the streets of this city without the consent of the driver or operator of such vehicle. (Approved June 27, 1911.)

Sec. 37. **Penalty.**—(Penalties) Any person or persons violating any of the provisions of Sections 12 or 20 of this ordinance shall for the first offense be fined not more than \$300 or imprisonment in the County Jail or Detroit House of Correction for a period of not more than 30 days, or both; and shall for the second offense against any of the provisions of either of said sections be fined not more than \$300 or imprisonment in the County Jail or Detroit House of Correction for a period of not more than 90 days, or both; and shall for the third or any subsequent offense against the provisions of either of said sections be sentenced to the Detroit House of Correction for a period of not more than 6 months.

Any person or persons violating any of the other provisions of this ordinance, shall be fined not more than \$300 or imprisonment in the County Jail or Detroit House of Correction for a period of not more than 90 days, or both, in the discretion of the Court, for every such violation.

Sec. 38. All ordinances or parts of ordinances inconsistent or conflicting with the provisions of this ordinance are hereby repealed.

LA AZORA
THE CIGAR OF CIGARS

Michigan Motor Laws

In Effect 1914

Section 1. **Definitions.**—The term “motor vehicle” as used in this act, except where otherwise expressly provided, shall include all vehicles propelled by any power other than muscular power, except motor cycles operated by policemen or firemen on official business, traction engines, road rollers, fire wagons, fire engines, police patrol wagons, ambulances and such vehicles as run only upon rails or tracks. The term “chauffeur” shall mean any person operating a motor vehicle for hire, or as the employe of the owner thereof. The term “state” as used in this act, except where otherwise expressly provided, shall also include the territories and the federal districts of the United States. The term “owner” shall also include any person, firm, association or corporation renting a motor vehicle or having the exclusive use thereof, under a lease or otherwise, for a period greater than thirty days. The term “public highway” shall include any highway, county road, state road, public street, avenue, alley, park, parkway or public place in any county, city, town or village, except any speedway which may have been or may be expressly set apart by law for the exclusive use of horses and light carriages.

Sec. 2. **Sub. 1. Registration of Motor Vehicles.**—Every owner of a motor vehicle which shall be operated or driven upon the public highways of this state shall, for each motor vehicle owned, except as herein otherwise expressly provided, cause to be filed by mail or otherwise in the office of the Secretary of State a verified application for registration, on a blank to be furnished by the Secretary of State for that purpose containing: (1) A brief description of the motor vehicle to be registered, including the name of the manufacturer, the style, number and diameter of cylinders, type and factory number of such vehicle, the character of the motor power and the amount of such motor power stated in figures of horse power, in accordance with the Association of Licensed Automobile Manufacturers’ standard rating, except electric and steam power motor vehicles, which shall be taken at the manufacturer’s rating; (2) The name, residence and business address of the owner of such motor vehicle and the name of the county in which he resides.

Sub. 2. Registration Book.—Upon the receipt of an application for registration of a motor vehicle or vehicles as provided in this section and in section four

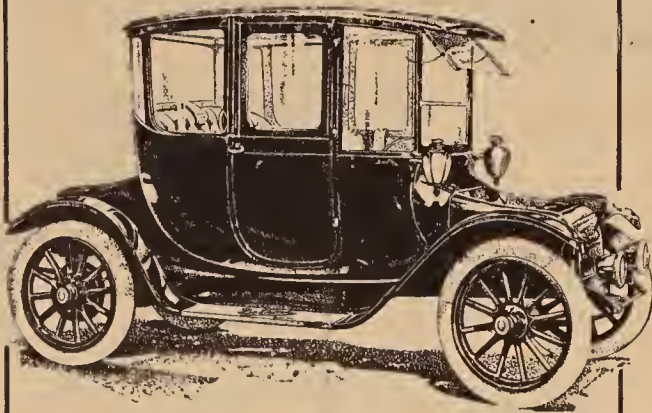
of this act, the Secretary of State shall file such application in his office and register such motor vehicle or vehicles, with the name, residence and business address of the owner, manufacturer or dealer, as the case may be, together with the facts stated in such application, in a book or index to be kept for the purpose, under the distinctive number assigned to such motor vehicle by the Secretary of State, which book or index shall be open to inspection during reasonable business hours.

Sub. 3. Number Plate.—Upon the filing of such application and the payment of the fee provided in subdivision six of this section, the Secretary of State shall assign to such motor vehicle a distinctive number, and, without expense to the applicant, issue and deliver to the owner a number plate, in duplicate, unless otherwise provided in the form and size provided in subdivision three of section three hereof. In event of the loss, mutilation or destruction of a number plate, the owner of a registered motor vehicle may obtain from the Secretary of State a duplicate thereof, upon filing in the office of the Secretary of State an affidavit, showing the fact and the payment of a fee of one dollar for each duplicate: Provided, That after filing affidavit and paying the fee, the Secretary of State may issue a certificate showing that the proper affidavit has been filed and the fee paid for such duplicate plate, such certificate, however, not to be valid for a period to exceed fifteen days after date.

Sub. 4. Furnishing Registration Lists to County Clerks.—The Secretary of State shall, within sixty days after this act takes effect, and thereafter on or before the first day of February of each year, furnished to the clerk of every county in the state a full and accurate list of all motor vehicles so registered, stating the distinctive numbers so assigned to them and the names, residence and business addresses of the owners, manufacturers or dealers as the case may be, and once each month thereafter a similar list of the additional registrations, which additional list shall be entered by each county clerk upon the original list received by him. Such lists shall be filed by such county clerks and be kept as public records, open to inspection during reasonable business hours.

Sub. 5. Re-registration Annually.—All registrations under this act shall expire on December thirty-first of each year,

Distinction



IN the 1914 Detroit Electric the skill of the engineer and the art of the designer have combined to produce an electric carriage which is at once distinguished in appearance, elegant in appointments, unsurpassed in mechanical excellence that makes for perfect service and permanent satisfaction.

Anderson Electric Car Co.

Manufacturers of

THE
Detroit
ELECTRIC

687 Woodward Ave.

and shall be renewed annually in the same manner and upon the payment of the same fee as provided in this section for original registration, such renewal to take effect on the first day of January of each year.

Sub. 6. Registration Fees.—The Secretary of State shall collect the following fees before registering a motor vehicle or vehicles in accordance with the provisions of this act, which shall exempt such motor vehicles from all other forms of taxation:

For the registration of every motor cycle, fifty cents per horse power;

For the registration of every motor truck and automobile, fifty cents per horse power;

For the registration of motor vehicles owned by or under the control of a manufacturer or dealer in motor vehicles, if such person operates on the public highway not more than five such vehicles, fifty dollars, and ten dollars for every motor vehicle in excess of five so operated;

For the registration of all motor cycles owned by or under the control of a manufacturer of motor cycles, who does not manufacture or deal in automobiles, including ten seals and number plates to be furnished with the certificate of registration, twenty dollars: Provided, That for all vehicles registered after September first in any calendar year, a fee of one-half the rate herein provided shall be collected: Provided further, That nothing in this section shall be construed to exempt factories, garages, not dealers in motor vehicles, from paying taxes as personal property on automobiles in stock or bond, except on the specified number of machines that have been licensed to operate on the highways.

For the purposes of this act, the horse power of all motor vehicles shall be determined in accordance with the Association of Licensed Automobile Manufacturers' standard rating in which the horse power is computed by squaring the diameter of one cylinder, multiplying by the number of cylinders and dividing the product by two and one-half.

Sub. 7. Sale and Transfer.—Upon the sale of a motor vehicle registered in accordance with this section, the vendor shall, within ten days after the date of such sale, notify the Secretary of State, stating the name and business address of the purchaser and the number under which such motor vehicle is registered: Provided, That the vendor may, upon application at the time of such notice, have the registration number transferred to a motor vehicle described in such application and owned by him, and which is not licensed under the law: Provided further, That should such motor vehicle have a greater horse power than the one transferred, then such applicant shall pay the difference between the fee already paid and the fee lawfully chargeable for the motor vehicle of greater horse power, together with the transfer fee herein provided: Provided further, That should such motor vehicle have a less horse power than the one transferred, then shall the Secretary of State remit to the

Mandarin
Inn



THE Management of the "Mandarin" Inn wishes to draw the attention of its patrons to the following facts:

Cleanliness is our first aim. You are cordially invited to inspect Dining Rooms, Kitchen, Ice Boxes, Etc.

Good Service is one of the main objects of the Management, the waiters being all trained in Cafe Service.

The American and Chinese Dishes are dispensed by first class Chefs, thoughtfully and carefully and the best material procurable is used in cooking.

A Special Business Men's Lunch is served each day from 11 till 2; prices range from 30c.

A Specialty is made of catering to "after the Show," Wedding and Birthday Parties and also Banquets served both in Oriental and American Styles.

The Manager tries to make the comfort and service to guests as near homelike as it is possible to be in a cafe. We don't ask for compliments but we do want criticisms

Sunday Table d'Hote Dinner 75c

Chicken and Frog Dinner \$1.25

Phone
Grand
902-3

MANDARIN INN

Next to
Garden
Theatre

HENRY LEE, Proprietor

725-7 Woodward Ave.

applicant the difference between the fee already paid and the fee lawfully chargeable for the car of lesser horse power, less the transfer fee herein provided, or if any application be not received by the Secretary of State for a transfer of the license number by the vendor as above provided, the vendee, upon filing application, may have the license transferred to him. A fee of one dollar shall be paid to the Secretary of State for each transfer, all applications for which he shall file in his office, and note upon the registration book or index such change, and at least monthly notify every county clerk of the state of such transfers, each of whom shall immediately note the same on the list of registered vehicles received and kept on file as herein provided.

Am. 1913, Act 181.

Sec. 3. Sub. 1. **Distinctive Number on Motor Vehicles.**—No person shall operate or drive a motor vehicle on the public highways of this state after the

first day of January, nineteen hundred ten, unless such vehicle shall have the number plates assigned to it by the Secretary of State conspicuously displayed, one on the front and one on the rear of such vehicle, each securely fastened so as to prevent the same from swinging: Provided, That owners of motor bicycles or motor cycles shall be required to display but one number plate and that upon the rear of such machine: Provided further, That it shall be unlawful to display more than one registration number upon the rear or front of such motor vehicle, or a number which does not entitle the holder thereof to operate such motor vehicle upon the public highways of the state.

Sub. 2. **Change of Color of Number Plate Annually.**—Such number plates shall be of a distinctly different color or shade for each year, to be designated and selected by the Secretary of State, and there shall be at all times a marked

(Continued on Page 23)

W. P. Hammond Co.

Proprietors of

Central Auto Exchange

12 Selden Avenue, Detroit

ARE opening a completely equipped Garage and Machine Shop on Woodward Avenue, almost opposite the new Addison Hotel.

Automobile Repairing, Painting, Vulcanizing and Retreading.

Radiators Repaired by Experts.

Auto-Top Repairs a Specialty.

Tires and Accessories of Every Description.

Cars Stored from \$10 Per Month.

Gasoline, Oil and Air Station.

Touring Parties Specially Catered For.

W. P. HAMMOND CO.

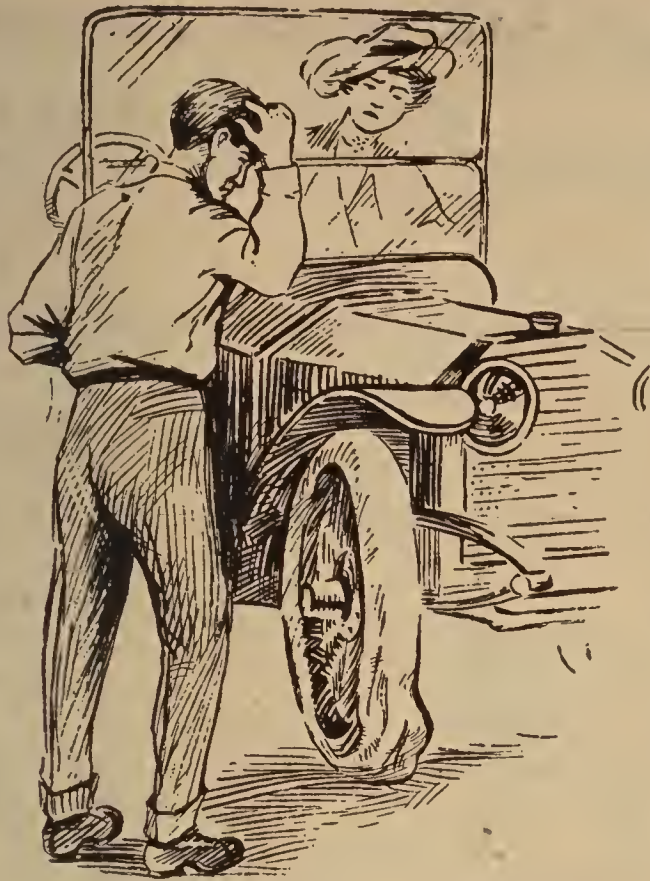
Are also agents for the popular

WAHL CARS

A Demonstration on Application

A \$2,000 Car for \$1,000

Phone Grand 1221



Attention Motorists!

Here
is the
Remedy
for Your
Tire Troubles

H. & H. TIRE SALES CO.
577 Woodward Avenue, Detroit

We Make a Specialty of Tire Repair Work

EQUIPPED with the most up-to-date
VULCANIZING plant in Michigan,
most expert workmen, and the most ap-
proved method that has demonstrated its super-
iority over others after years of experience.

We are the Original Tire Doctors

Our patients are numerous, our surgical appliances
are par excellence, and our service is famous.

Distributors of

IMPERIAL TIRES AND TUBES

A guaranteed tire of unusual merit for durability and service, which
can be relied upon at all times to give satisfaction.

Mail orders promptly attended to.

Free Air Station. Our Location is convenient—just one mile
north of City Hall.

H. & H. TIRE SALES CO.

GRAND 4622

577 WOODWARD AVENUE

OPEN SUNDAYS

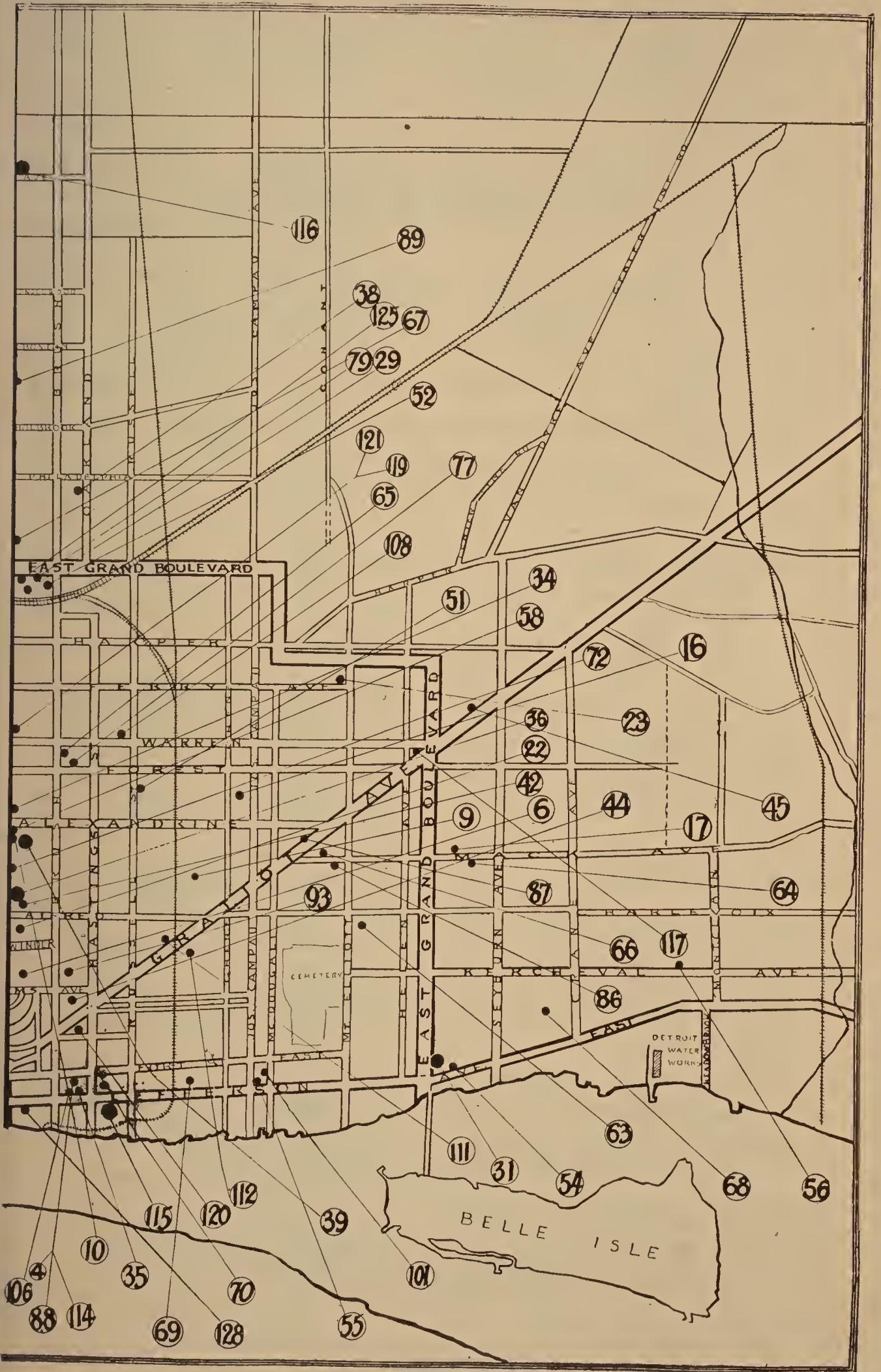
Location of Garages, Repair

Key to this Map on



Stations, Etc., in Detroit

Pages 20 and 22



Detroit Garages & Repair Shops

(For Location see City Maps on Pages 18-19)

- 1—Ackerman Bros., 1372 S. River.—Walnut 2935.
- 2—**ADDISON GARAGE, F. W. KELLEY, MGR., CHARLOTTE ST., OPP. ADDISON HOTEL—GRAND 2697.**
- 3—Alexandrine Garage, 90 W. Alexandrine—Grand 1143-R.
- 4—American Taxicab Co., 192 E. Congress—Main 10.
- 5—A. E. Annett, 1231 Woodward—North 2750.
- 6—Bagley Garage, 85 Elizabeth E.—Cadillac 5998.
- 7—Baker St. Garage, 560 Baker—West 2205.
- 8—O. R. Baldwin, 171 Brooklyn—West 1432.
- 9—Theo. Beguhn, Jr., 681-683 St. Aubin—Cadillac 3413.
- 10—Bleil & O'Donnell, 736 Woodward—Grand 1154.
- 11—F. C. Blossom Garage, 1381 Fort W.—West 1659.
- 12—M. I. Brabb, 32 Stimson Pl.—Grand 3458.
- 13—Bradley Garage, 173 Canfield W.—Grand 782.
- 14—A. S. Brooks, 533 Woodbridge E.—East 2343.
- 15—**BURNETT GARAGE, CASS AND BAGG—GRAND 4787.**
- 16—Canfield Garage Co., 718 Canfield E.—Ridge 548-J.
- 17—E. C. Carey, 923 Mack—Ridge 3959
- 18—Cass Auto Livery, 629 Cass—Grand 178.
- 19—Cass Ave. Electric Garage, 647 Cass—Grand 4669.
- 20—**CASS PARK GARAGE, 108 BAGG—GRAND 4578.**
- 21—Central Detroit Auto Co., 44 Washington—Main 3672.
- 22—Chapin Bros., 49 Adelaide—Grand 1414.
- 23—Frank Churchill Garage, 1423 Mt. Elliot—Ridge 825.
- 24—Cobb Bros., 248 Jefferson—Main 1662.
- 25—Columbia Buggy Co., 21-23 Selden—Grand 136.
- 26—Concord Ave. Garage—429 Concord—East 2919.
- 27—Congress Garage—65-69 W. Congress—Cherry 4459.
- 28—Irvine & Ready, 99 W. Adams—Cadillac 5570-J.
- 29—Day Auto Garage, 25 Milwaukee E.—North 881.
- 30—Detroit Auto Garage, 6870 W. Adams—Main 5505.
- 31—**DETROIT ELECTRIC GARAGE, 112 E. GRAND BLVD.—EAST 1067.**
- 32—**DETROIT ELECTRIC GARAGE, 687-691 WOODWARD—GRAND 2135.**
- 33—**DETROIT ELECTRIC GARAGE, 17 CLAIRMOUNT—NORTH 4328.**
- 34—Detroit Hupmobile Sales Co., 788 Woodward—Grand 3471.
- 35—Electric Commercial Garage, Jefferson and Antoine—Cadillac 3084.
- 36—**ELIOT GARAGE, 21 ELIOT—GRAND 3285.**
- 37—Abbott Garage, 67-69 Abbott—Main 582.
- 38—Euclid Garage, Euclid and Oakland—North 1857-J.
- 39—**DOLENGAR AUTO REPAIR CO., 698 WOODWARD—GRAND 4960-J.**
- 40—**MAJOR JONES GARAGE, 881 WOODWARD AVE.—GRAND 3694.**
- 41—"518" Garage, 518 Grand River—Grand 442.
- 42—Fix Auto Repair Shop, 68 Edmund Pl.—Grand 4827-J.
- 43—Foster Motor Sales Co., 1751 Woodward—North 4243.
- 44—L. C. Garrett, 269 Beaubien—Cherry 4642.
- 45—Gratiot Ave. Garage, 1685 Gratiot—Ridge 4195.
- 46—Gremel & Miller, 14th and West Grand Blvd.—Walnut 2618.
- 48—Hamilton Garage, 558-64 Grand River—Grand 1742.
- 49—D. M. Harris, 175 Dix Ave.—West 1892-J.
- 50—Highland Auto Garage, 2739 Woodward—Hemlock 506.
- 51—F. Hill & Co., 904 Russell—Cadillac 3535.
- 52—Hossler & Orth, 56 Baltimore E.—North 5792.
- 53—**W. P. HAMMOND CO., 12 SELDEN AVE.—GRAND 1221.**
- 54—Island Garage & Sales Co., 1421-27 Jefferson Ave.—East 1490.
- 55—Jefferson Garage, 945 Jefferson—East 532.
- 56—Kercheval Ave. Garage, 903 Kercheval—Hickory 1656-R.
- 58—Kratz & Kratz, 730 Woodward Ave.—Grand 4831.
- 59—Lafayette Auto Garage, 196 Congress W.—Main 129.
- 60—LaVier & Long Elect. Co., 18 Bagg—Grand 1431.
- 61—Leyes Bros., 802 Howard—West 351-J.
- 62—David J. McLean, 584 Meldrum—Grand 3344-J.
- 63—Mack Ave. Garage, 954 Mack Ave.—Ridge 3043.
- 64—Maine Auto Repair, 726 John R.—Grand 3783.
- 65—Michigan Auto Garage, 1661 Michigan—Walnut 2102-R.
- 66—Miller & Walter, 435-7 Mack—Ridge 2281-M.
- 67—North Woodward Garage, 1580 Woodward Ave.—North 3275.
- 68—Parker Ave. Garage Co., 253-255 Parker—East 1957
- 69—Pasadena Garage, 530 Larned E.—East 2662.
- 71—Pfeiffer Auto Garage, 230 Elizabeth W.—Cadillac 2879-W.

(Continued on Page 22)

The Finest and Best Equipped Garage in Michigan

Addison Garage

Charlotte Avenue, Detroit

Between Woodward Ave. and Park St.

(Opposite the New Addison Hotel)

Right in the Centre of Automobile Row

MR. F. W. KELLEY, of the Kelley Garage, 678 Woodward Avenue will have complete charge of the **ADDISON GARAGE**—therefore customers can depend upon excellent service, workmanship and attention.

STORAGE FACILITIES FOR 120 CARS

**SPECIAL ATTENTION PAID TO TOURING PARTIES
SPECIAL MONTHLY AND DAY RATES—STORAGE
FROM \$10.00 UPWARDS—OPEN DAY AND NIGHT**

Complete machine shop under direction of expert mechanic. High grade Gasoline and Oil Station. Tires and accessories of every description stocked.

ADDISON GARAGE CO.

F. W. KELLEY, Manager

(Continued from Page 20)

- 72—Postal-Fair Motor Co., 650 Woodward—Grand 3344.
74—Reliance Garage, Rear 517 Cass—Grand 2472-J.
75—J. A. Robertson, 1262 Fort W.—West 2331.
76—Robinson's Garage, 1176 Fort W.—West 1519-J.
77—Roehl Bros. Garage, 962 Beaubien Cadillac 3429.
—Rogers Garage & Repair Co., 1521 Gratiot—Ridge 1445.
78—E. I. Rumsey Garage, 21 Selden—Grand 3501.
79—Rumsey Electric Co., 3083 East Grand Blvd.—North 1664.
80—John P. Schneider, 475 Woodward—Grand 3860.
81—H. & H. TIRE SALES CO., 577 WOODWARD. GRAND 4462.
82—JOSEPH P. BERTSCHE, 607 SUN BLDG. CADILLAC 6682.
83—Siegel-Zeckendorf Co., 808 Woodward—Grand 2282.
84—REPUBLIC RUBBER CO., 1001 WOODWARD AVE. N. 2921.
85—L. C. Steers, 518 Grand River—Grand 442.
86—J. O. Stone, 494 Mack—Ridge 4094
87—Swift Auto Co., 773-775 Gratiot—Ridge 837.
88—Taxicab Co. of America, 192 E. Congress—Main 10.
89—Tire & Auto Service Co., 2128-30 Woodward—Hemlock 370-371.
90—Washington Blvd. Auto Garage, 41 Washington Blvd.—Main 2084.
91—Wayne Auto Garage, 196 Congress W.—Main 129.
92—W. H. Weber, 908-10 Fort W.—West 673.
93—Charles R. Wilson, 167 Columbia E.—Cadillac 5652-J.
94—MODERN GARAGE, 782 EAST LARNED—EAST 213-J.
103—Zinnbauer Bros, 1105-7 Michigan—West 2881.
104—Baker Electric Co., 969 East Jefferson.
105—Bromley & Doherty, 225 Cass.
106—Commercial Auto Rep. & Stg. Co., 161 E. Larned—Cadillac 5791.
107—Jas. Cooper, 336 Second—Cadillac 3170-R.
108—Fashion Garage, 10 W. Warren—North 3730.
109—Carlin & Raths, 799 Scotten—West 2962-J.
110—Geibig & Co., Grand River and Second—Cadillac 3170-R.
111—Lyons Auto Co., 527 Gratiot—Main 3246.
112—Miller & Sons, 148 Chestnut—East 1171.
113—Milwaukee Ave. Garage, 126 Milwaukee W.—North 3118.
114—Motor Hall, 192 E. Congress—Cadillac 10.
115—L. F. MULLIN, "CITY TAXI GARAGE," 344 E. JEFFERSON—CADILLAC 6821.
116—PENINSULAR GARAGE, BUENA VISTA AND WOODWARD—HEMLOCK 2492.
117—Rogers Garage & Repair Co., 1521 Gratiot—Ridge 1445.
118—E. I. Rumsey Garage, 21 Selden—Grand 3501.

- 119—Service Tire & Rental Co., 1000 Woodward—North 472.
120—Sellman & Britz, 215 Monroe—Main 3456.
121—Taylor Electric Garage, 1000 Woodward Ave.
122—WALLDECKER & THIERY, 291 DIX—WEST 2286.
123—Zinnbauer Bros., 1105 Michigan Ave.—West 2881.
124—Healey Garage, Roosevelt and Grand River—Walnut 3376.
125—R-C-H Sales & Service Co., 3087 East Grand Blvd.—North 124.
126—Fashion Garage, 10 W. Warren Ave.—North 3730.
127—IRVINE & READY, 99 ADAMS WEST.
128—PARISIAN GARAGE (WAS COBB BROS.).

Walkerville-Detroit Ferry

First boat leaves foot of Jos Campau avenue, Detroit. at 5:30 a. m. and every 15 minutes thereafter until 8 p. m. From 8 p. m. to 12 p. m. boat runs every 30 minutes. On Sunday, first boat leaves Detroit at 7 a. m.

Fares: Roadster, 10 cents, including driver; touring car, 15 cents, including driver. The company sells 10 roadster tickets for \$1.00 and 10 touring car tickets for \$1.50. Each ticket entitles the driver to carry one passenger per trip without extra cost.

Have Pity on the Other Fellow

Glaring headlights are not necessary on the city streets, and while there are as yet no laws governing their use, owners of cars so equipped should have sufficient consideration for other motorists and pedestrians to dispense with them. When facing a pair of these powerful lights, a motorist is as helpless in guiding his car as though his eyes were tightly closed, and numerous accidents have resulted.

Remember that the closer one drives to the curb, the greater is the risk of punctures. Whenever possible, keep in the "beaten paths" near the center of the street.

Cleaning Automobile Tops

For removing ordinary dirt and dust, clean water and a sponge are all that are necessary. Where grease or other stains have occurred, the top should be gone over with pure soap suds and water, with a second application of water to remove all traces of the soap. Mackintosh materials, such as "mohairs," can generally be cleaned with a stiff brush, soap and water. The appearance of old tops can be much improved with an application of the proper dressing for the particular top to be cleaned. It is well to consult a reliable dealer before purchasing top dressing, or better still, a carriage or auto top maker. Under no circumstances use gasoline on any kind of top, as it is destructive to the interlining gum.

(Continued from Page 15)

contrast between the color of the number plates and that of the numerals or letters thereon.

Sub. 3. Form of Number Plates.—Such number plate shall be an enameled plate or placard of metal, four and one-half inches wide and not more than twelve inches in length, in the upper left hand corner of which there shall be a facsimile of the seal of the state, underneath which there shall be the abbreviation "Mich.," and to the right of which seal and abbreviation there shall be the distinctive number assigned to the vehicle set forth in numerals three inches long, each stroke of which shall be at least one-half an inch in width: Provided, That in the case of a motor vehicle registered under section four of this act there shall be on such plate or placard in addition to the foregoing the letter "M," the same to be at the right of the distinctive number, each stroke of such letter to be at least three inches long and one-half an inch in width: Provided further, That the placard or enameled plate required to be displayed upon motor bicycles or motor cycles shall not be more than six inches in length and two and one-half inches in width, with numerals one and one-half inches in height.

Sec. 4. Sub. 1. Registration by Manufacturers and Dealers.—Every person, firm, association or corporation manufacturing or dealing in motor vehicles may, instead of registering each motor vehicle so manufactured or dealt in, make a verified application upon a blank to be furnished by the Secretary of State for a general distinctive number for all the motor vehicles owned or controlled by such manufacturer or dealer, such application to contain: (1) A statement setting forth whether the applicant be a dealer or manufacturer; (2) The name, residence and business address of such manufacturer or dealer. On the payment of the registration fee named in section two, subdivision six of this act, such application shall be filed and registered in the office of the Secretary of State in the manner provided in section two of this act. There shall thereupon be assigned and issued to such manufacturer or dealer a general distinctive number and duplicate number plates in the manner provided by section two, which shall be in the form of plates as provided in section three, duplicates of which shall be carried or displayed by every motor vehicle of such manufacturer or dealer so registered when the same is driven or operated on the public highways. Such manufacturer or dealer may obtain as many duplicate sets of such number plates as may be desired upon payment to the Secretary of State of ten dollars for each duplicate set in excess of the first five issued with the license. Nothing in this subdivision shall be construed to apply to a motor vehicle operated by a manufacturer or dealer for private use or for hire: Provided, That for all licenses issued after September first in any registration year, a fee of one-half the rate provided in this section shall be paid. No provision

of this section shall be construed to apply to a motor vehicle operated by a manufacturer, or his authorized representative, between the factory where such motor vehicle is manufactured and any railroad depot, railroad siding, warehouse, steamship dock or other place where such motor vehicle is to be delivered for shipment, or to the warehouse or salesroom of such manufacturer: Provided, That the person so operating the motor vehicle under the provisions of this section shall first be furnished by the manufacturer, or his authorized agent, with an order for the delivery of such motor vehicle to its destination, which order shall bear the date upon which it is issued, and shall contain the number of the motor vehicle so operated and the point to which it is to be delivered: Provided further, That each such motor vehicle so operated shall have displayed upon the front and rear of same upon a card or otherwise the general distinctive number assigned such manufacturer by the Secretary of State as provided in this section; and provided said motor vehicle is in charge of a competent driver.

Sub. 2. Re-registration Annually.—All registrations under this act shall expire on December thirty-first of each year, and shall be renewed annually in the same manner and upon the payment of the same fees provided for in this section for original registration, such renewal to take effect on the first day of January of each year.

Am. 1913, Act 181.

Sec. 5. Exemption of Non-resident Owners.—The provisions of the foregoing sections shall not apply to a motor vehicle owned by a non-resident of this state: Provided, That the owner thereof shall have complied with the provisions of the law of the state or province of his residence relative to motor vehicles and the operation thereof, and shall conspicuously display his state or province number, and that the provisions of the foregoing sections of this act are substantially in force in such state or province: Provided further, That this exemption shall not apply to non-resident corporations doing business in this state: Provided further, That non-residents shall not be exempt from the foregoing sections, unless the state or province of his residence extends similar privileges to motor vehicles registered under this law, nor in any case for a continuous residence in the state for more than ninety days.

Am. Id.

Sec. 6. Sub. 1. Brakes, Horns, Lamps, et cetera.—Every motor vehicle, operated and driven upon the public highways of this state, shall be provided with adequate brakes sufficient to control the vehicle at all times, and a suitable and adequate bell, horn or other device for

LA AZORA
THE CIGAR OF CIGARS

signalling, and shall, during the period from one hour after sunset to one hour before sunrise, display at least two lighted lamps on the front and one on the rear of such vehicle, which shall also display a red light visible from the rear. The white rays of such rear lamp shall shine upon the number plate carried on the rear of such vehicle. The light of the front lamps shall be visible at least two hundred feet in the direction in which the motor vehicle is proceeding: Provided, That motor bicycles or motor cycles shall be required to display but one lighted lamp, such lamp to be placed on the front of the vehicle so that it shall be visible one hundred feet in the direction in which the motor vehicle is proceeding. There shall be displayed on the face of such lamp the registration number in figures not less than one inch in height, and placed thereon in such manner so that when the lamp is lighted the number may be read at a distance of at least fifty feet.

Sub. 2. Use of Non-skidding Devices.—No person shall operate or drive on the public highways of this state a motor vehicle on any of whose wheels is a tire chain or non-skidding contrivance or tire composed in whole or in part of metal, except when such highways are wet and slippery or covered with ice or snow.

Sub. 3. Stopping on Signal.—A person operating a motor vehicle shall, at the request or on signal by putting up the hand, from a person riding, leading or driving a horse or horses or other draft animals, bring such motor vehicle immediately to a stop, and, if traveling in the opposite direction, remain stationary so long as may be reasonable to allow such horse or animal to pass, and if traveling in the same direction, use reasonable caution in thereafter passing such horse or animal: Provided, That in case such horse or animal appear badly frightened or the person operating such motor vehicle be requested so to do, such person shall cause the motor of such vehicle to cease running so long as shall be reasonably necessary to prevent accident and insure the safety of others.

Sub. 4. Whenever a person operating a motor vehicle shall meet on a highway any other person riding or driving a horse or horses or other draft animals or any other vehicle, and there being no occasion to stop as above provided, the person operating such motor vehicle shall seasonably turn the same to the right of the center of the traveled portion of the highway, while the person approaching shall likewise turn from the center of the traveled portion of the highway so as to pass the motor vehicle on the opposite side of the center of the highway to which the motor vehicle has been turned. And any person so operating any motor vehicle, shall, at the intersection of a public highway, keep to the right of the intersection of the centers of such highways when turning to the right and pass to the right of such

intersection when turning to the left.

Sub. 5. If a vehicle drawn by a horse or horses or other draft animals, or a motor vehicle, be overtaken by any motor vehicle, and the person in charge of such motor vehicle expresses a desire to pass, it shall be the duty of the driver of any such vehicle or motor vehicle so overtaken as aforesaid, to turn to the right of the center of the wrought or traveled portion of the highway, and give the person so making the request an opportunity to pass, but in passing, the person in charge of such motor vehicle and the other male occupants thereof over the age of fifteen years shall give such assistance as they are able to the occupant or occupants of the vehicle they are passing, if assistance is asked, and in thus passing the chauffeur shall use all due care to avoid accidents.

Sub. 6. Accidents.—In case of accident to person or property upon any public highway, due to the operation thereon of any motor vehicle, the person operating such motor vehicle shall stop and give such reasonable assistance as can be given, and shall, upon request of the person injured or any other person, give such person his name and address, and if not the owner, the name and address of the owner of such motor vehicle, together with the registered number thereof.

Sec. 7. Sub. 1. Rate of Speed.—No person shall operate a motor vehicle upon a public highway at a rate of speed greater than is reasonable and proper, having regard to the traffic and use of the highway, or so as to endanger the life or limb of any person or the safety of any property; and shall not in any event while upon any highway run at a higher rate of speed than twenty-five miles an hour, and within the corporate limits of all cities and villages the rate of speed shall not be greater than ten miles an hour in the business portion of any such city or village, and not greater than fifteen miles an hour in all other portions thereof, subject, however, to the other provisions of this act. Upon approaching an intersecting highway, a bridge, dam, sharp curve or steep descent, and also in traversing such intersecting highway, bridge, dam, curve or descent, a person operating a motor vehicle shall have it under control and operate it at such speed as is reasonable and proper, having regard to the traffic then on such highway and the safety of the public.

Sub. 2. Upon approaching a person walking in the roadway of a public highway, or a horse or horses, or other draft animals, being ridden, led or driven thereon, a person operating a motor vehicle shall slow down to a speed not exceeding ten miles an hour and give reasonable warning of its approach, and use every reasonable precaution to insure the safety of such person or animal, and in case of a horse or horses or

(Continued on Page 26)

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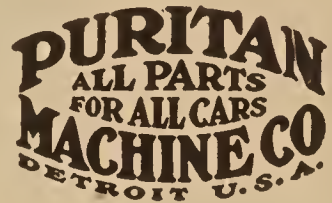
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other draft animals, to prevent frightening the same.

Sub. 3. Local Authorities.—Local authorities may, notwithstanding the provisions of this act, make, enforce and maintain such reasonable ordinances, rules or regulations concerning the speed at which motor vehicles may be operated in any park or parkway within a city or incorporated village, but in no case to permit a greater speed than is provided in this act, and as a condition thereto, such local authorities must, by signs at each entrance of such park and along said parkway, conspicuously indicate the rate of speed permitted or required, and may exclude motor vehicles from any cemetery or grounds used for the burial of the dead.

Sec. 8. Sub. 1. Registration of Chauffeurs.—Every person hereafter desiring to operate a motor vehicle as a chauffeur shall file in the office of the Secretary of State, upon the payment of a registration fee of two dollars, a verified application for registration on a blank to be furnished by the Secretary of State for that purpose containing: (1) The name and residence address of the applicant and that he is competent to operate a motor vehicle and is over eighteen years of age; (2) Whether or not the applicant has been previously convicted of a violation of any of the provisions of this or any other motor vehicle law or ordinance, giving the date and place of such conviction and the provision or provisions of the law or ordinance violated: Provided, That for all licenses issued after August first in any registration year a fee of one-half the rate provided in this section shall be paid.

Sub. 2. Re-registration Annually.—Such registration shall be renewed annually in the same manner and upon the payment of the same fee as provided in this section for original registration, such renewal to take effect on the first day of January of each year.

Sub. 3. Chauffeur's Registration Book; Furnishing Lists to County Clerks.—Upon receipt of such an application, the Secretary of State shall thereupon file the same in his office, assign the applicant a number and register him in a book or index which shall be kept in the same manner as the book or index for the registration of motor vehicles. The Secretary of State shall also furnish to the clerk of every county of the state within sixty days after this act takes effect and once each month thereafter, a full and accurate list of chauffeurs so registered, with their addresses and the numbers assigned to each, in the same manner as provided in section two with reference to registered motor vehicles. Such lists shall be filed by such county clerks and be kept as public records, open to inspection during reasonable business hours.

Sub. 4. Chauffeur's Badge.—The Secretary of State shall forthwith upon registering such chauffeur and without other fee, issue and deliver to him a badge of aluminum or other suitable metal, which

shall be in such form or shape as the Secretary of State may determine, and upon which shall be stamped the words "Registered Chauffeur Number.....; State of Michigan," with the number and date of expiration inserted therein. This badge shall thereafter be worn by such chauffeur pinned upon his clothing in a conspicuous place at all times while he is operating a motor vehicle upon the public highways of this state. In the event of the loss, mutilation or destruction of a chauffeur's badge, such chauffeur may obtain from the Secretary of State a duplicate thereof upon filing in the office of the Secretary of State an affidavit showing the fact and the payment of a fee of one dollar.

Sub. 5. Change Form or Shape of Chauffeur's Badge Annually.—Such badge shall be of a distinctly different shape or form for each year, to be designated and selected by the Secretary of State.

Sub. 6. Fictitious Badge.—No chauffeur having registered as herebefore provided, shall voluntarily permit any other person to wear his badge; nor shall any person while operating a motor vehicle upon the public highways of this state wear a chauffeur's badge belonging to another person, or a fictitious chauffeur's badge.

Sub. 7. Unregistered Chauffeurs Cannot Drive Motor Vehicles.—No person shall operate or drive a motor vehicle as a chauffeur upon the public highways of this state after this act takes effect, unless such person shall have complied in all respects with the requirement of this section: Provided, however, That a non-resident chauffeur who has registered under the provisions of the law of the state of his residence which are substantially similar to the provisions of this section, shall be exempt from registration under this section: Provided further, He shall wear the badge assigned to him in the state of his residence in the manner provided in subdivision three of this section: Provided further, That non-resident chauffeurs shall not be exempt from the provisions of the foregoing sections unless the state of his residence extend similar privileges to chauffeurs registered under this act.

Sec. 9. Local Ordinances Prohibited.—Except as herein otherwise provided, local authorities shall have no power to pass, enforce or maintain any ordinance, rule or regulation requiring from any owner or chauffeur to whom this act is applicable, any license or permit for the use of the public highways, or excluding any such owner or chauffeur from the free use of such public highways, or in any other way respecting motor vehicles or their speed upon or use of the public highways. No ordinance, rule or regula-

(Continued on Page 28)

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(Continued from Page 26)

tion contrary to the provisions of this act now in force or hereafter enacted shall have any effect. Provided, however, That the powers given to local authorities to regulate vehicles offered to the public for hire, and processions, assemblages or parades in the streets or public places, and all ordinances, rules and regulations which may have been or which may be enacted in pursuance of such powers shall remain in full force and effect: Provided further, That local authorities may set aside for a given time a specified public highway for speed contests or races, to be conducted under proper restrictions for the safety of the public, and that said authorities may exclude motor vehicles from any cemetery or grounds used for the burial of the dead.

• Sec. 10. Sub. 1. **Penalties.**—Any person violating any of the provisions of this act and who shall be convicted thereof, or who shall plead guilty to any complaint for the violation thereof, shall be punished by a fine not exceeding twenty-five dollars and costs of prosecution; or if such fine be not paid then by imprisonment in the county jail for not exceeding ten days; for the second offense he shall be punished by a fine not exceeding fifty dollars and costs of prosecution; or if such fine be not paid then by imprisonment in the county jail for not exceeding thirty days; and for a third, or any subsequent offense, he shall be punished by a fine not exceeding one hundred dollars and costs of prosecution or by imprisonment in the county jail or the Detroit house of correction for a period not exceeding thirty days, or by both such fine and imprisonment.

Sub. 2. **Civil Actions.**—Nothing in this act shall be construed to curtail or abridge the right of any person to prosecute a civil action for damages by reason of injuries to person or property resulting from the negligence of the owner or operator or his agent, employe or servant, of any such motor vehicle, or resulting from the negligent use of the highway by them or any of them.

Sub. 3. **Liability of Owners.**—The owner of a motor vehicle shall be liable for any injury occasioned by the negligent operation by any person of such motor vehicle, whether such negligence consists in violations of the provision of a statute of this state or in the failure to observe such ordinary care in such operation as the rules of the common law require; but such owner shall not be so liable in case such motor vehicle shall have been stolen.

Sec. 11. All police justices of any city, or justices of the peace of the county where any such violations shall occur, shall have jurisdiction to hear, try and pass sentence for any and all violations of any of the provisions of this act.

Sec. 12. The term "county jail" referred to in section ten of this act shall be construed to mean the county jail of any county where the violation of any of the provisions of this act shall occur, and the Detroit house of correction shall be construed to mean the institution of

that name located in the city of Detroit, this state.

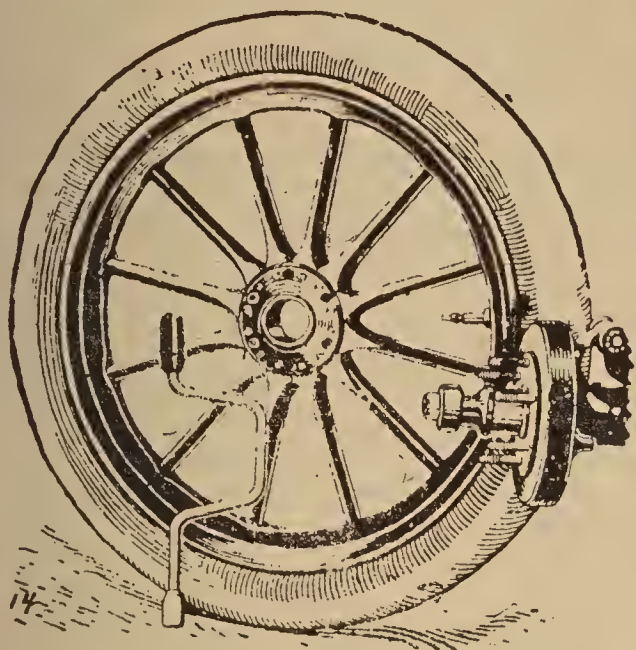
Sec. 13. Any police officer of any city, any marshal, deputy marshal, or watchman of any incorporated village, or any sheriff or deputy sheriff of any county or any constable of any township, shall have full power and authority within the limits of their jurisdiction or in any adjoining county to arrest any person known personally to any such officer to have violated any of the provisions of this act, and to immediately bring such offender before any magistrate having jurisdiction, as provided in section eleven of this act, and any such person so arrested shall have the right of an immediate trial and all other rights given to any person arrested for having committed a misdemeanor; and if such hearing cannot then be had, be released from custody on giving his personal undertaking to appear in answer to such violation at such time and place as shall then be indicated, secured by the deposit of a sum equal to the maximum fine for the offense with which he is charged, or in lieu thereof by leaving the motor vehicle, being operated by such person, with such officer; or in case such officer be not accessible, be forthwith released from custody on giving his name and address to the officer making such arrest, and depositing with such officer a sum equal to the maximum fine for the offense for which such arrest is made, or in lieu thereof by leaving the motor vehicle, being operated by such person, with such officer. Provided, That in such case the officer making such arrest shall give a receipt in writing for such sum or vehicle and notify such person to appear before the most accessible magistrate, naming him, on that or the following day, specifying the place and hour. In case security shall be deposited as in this section provided, it shall be returned to the person depositing forthwith on such person being admitted to bail.

Sec. 14. **Certifying Convictions to the Secretary of State.**—Upon the conviction of any person for a violation of any of the provisions of this act, the magistrate or other judicial officer before whom the proceedings are held, shall immediately certify the facts of the case, including the name and address of the offender the character of the punishment and the amount of any fine imposed and paid, to the Secretary of State, who shall enter the same either in the book or index of registered motor vehicles or in the book or index of registered chauffeurs as the case may be, opposite the name of the person so convicted, and in the case of any other person, in a book or index of offenders to be kept for such purpose, in alphabetical order. The Secretary of State shall send notices of all convictions for violations of section seven of this act, with the names and addresses of the persons convicted and the judgments of the court on such convictions, to the clerk of every county in the state, who shall enter the same on the lists of registered motor vehicles or registered chauffeurs as the case may

(Continued on Page 30)

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(Continued from Page 28)

be, opposite the name of the person so convicted, or on a list of other offenders which he shall maintain in his office as a public record in the same manner as the lists of registered motor vehicles and registered chauffeurs, and on due application furnish copies of such lists to the magistrates or other judicial officers of his county before whom violations of the provisions of this act are triable. If any such convictions shall be reversed upon appeal therefrom, the person whose conviction has been so reversed may serve on the Secretary of State a certified copy of the order of reversal, whereupon the Secretary of State shall enter the same in the proper book or index in connection with the record of such conviction, and shall also notify each county clerk of the same.

Sec. 15. All fees paid to the Secretary of State as provided in this act shall be turned over to the state treasurer, and applied to the state highway fund, five per cent of which shall constitute a fund to be used for salaries and running expenses of the state highway department, the remainder to be applied to the building and improvement of the highways of the state under such division of said fund and for such purposes as the highway laws of the state shall provide, to be paid out by the state highway commissioner in accordance with the statutory provisions therefor. Any moneys remaining in either fund at the close of any year shall be carried over by the auditor general and added to the funds which become available for the following year.

Am. 1913, Act 181.

Sec. 16. All licenses issued during the year nineteen hundred nine, under the provisions of act number one hundred ninety-six of the public acts of nineteen hundred five, as amended by act number three hundred four of the public acts of nineteen hundred seven, shall expire on January first, nineteen hundred ten.

Sec. 17. **Acts Repealed.**—Act number one hundred ninety-six of the public acts of nineteen hundred five, as amended by act number three hundred four of the public acts of nineteen hundred seven, and all acts or parts of acts inconsistent herewith or contrary hereto, are hereby expressly repealed.

Sec. 18. **Title of Act and When it Takes Effect.**—This act shall be known as the "Michigan Motor Vehicle Law" and shall take effect the first day of January, nineteen hundred fourteen: Provided, That applications for registration may be made and registration certificates and badges issued at any time within sixty days prior to such date.

Am. 1913, Act 181.

Unauthorized Taking of Motor Vehicles.
AN ACT to prohibit the unauthorized taking or using of automobiles or other motor vehicles by drivers or caretakers thereof, or by any other person or persons, without intent to steal the same, and to provide a penalty therefor.

The People of the State of Michigan enact:

Section 1. Every person who takes or uses without authority an automobile or other motor vehicle without intent to steal the same, or who shall be a party to such unauthorized taking or using, shall upon conviction thereof be punished by imprisonment in the state prison for not more than two years or by a fine of not more than five hundred dollars: Provided, That in case of first offense the court may in its discretion reduce the punishment to imprisonment in the county jail for a term of not more than three months or a fine of not more than one hundred dollars: Provided further, That the provisions of this act shall be construed to apply to any person or persons employed by the owner of said automobile or other motor vehicle or any one else, who, by the nature of his employment, shall have the charge of, or the authority to drive said automobile or other motor vehicle if said automobile or other motor vehicle is driven or used without the owner's knowledge or consent.

Detroit Railroad Depots

Michigan Central Depot—Between 15th and 16th streets, Michigan avenue cars.

Union Depot—Corner Fort and Third streets. Wabash; Canadian Pacific; Cincinnati, Hamilton and Dayton; Pere Marquette railroads. West Fort or Depot stub cars.

Brush St. Depot—Foot of Brush street. Grand Trunk and Lake Shore railroads. Brush or Jefferson cars.

Harbaugh Ave. Depot—Harbaugh avenue. For local Wabash trains. Fort street car.

Woodward Ave. Depot—Woodward and viaduct. Grand Trunk and Lake Shore railroads. Woodward cars.

Gratiot Ave. Depot—Gratiot avenue and Dequinder street. Grand Trunk and Lake Shore railroads. Gratiot avenue cars.

Interurban Depot—Griswold and Larned streets.

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Trip No. 3

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104.2 Miles



- 0.0—City Hall—Out Woodward to
- 2.3—Ferry ave.—turn right.
- 3.8—Moran st.—turn left 2 blocks to Boulevard—turn right on Boulevard to Mt. Elliott ave.—turn left to
- 4.9—Harper ave.—turn right.
- 5.7—Van Dyke ave.—turn left.
- 6.7—Cross R. R.
- 7.9—Mt. Olivet cemetery on right—follow trolley.
- 8.2—Cross R. R.
- 11.9—Leave trolley and enter Center Line—Straight ahead.
- 20.8—Jog right and left—straight ahead.
- 21.8—Middle road.
- 22.0—Cross R. R.—turn right—again cross R. R.
- 22.6—Utica.
- 22.7—Turn left.
- 26.6—Disco—Straight ahead.
- 29.3—Washington.
- 29.5—Be sure and turn right.
- 30.5—Turn left.
- 32.5—Cross R. R.—pick up trolley at left.
- 35.5—Romeo.
- 36.1—Turn left.
- 36.3—Turn right.
- 40.3—Jog left.
- 40.4—Jog right.
- 40.9—Turn left around school house.
- 41.4—Bear right.
- 44.4—Cross R. R.
- 44.7—Almont—Turn right on Memphis-Berville road.
- 47.7—Jog right and left.
- 49.7—Turn right.
- 50.1—Cross R. R.
- 50.7—Turn left.
- 53.4—Cross R. R.
- 53.8—Berville—Turn right.
- 53.9—Cross R. R.
- 57.9—Cross R. R., enter
- 58.3—Armada—Turn left on Main st.
- 60.0—Straight ahead.
- 65.6—Cross R. R.—bear left at fork, 1/10 mile.
- 65.7—Turn right into
- 65.8—Richmond—Straight ahead.
- 66.7—Lenox—Straight ahead.
- 67.5—Cross R. R.
- 67.6—Turn right, straight ahead on Detroit-Pt. Huron road into
- 83.0—Mt. Clemens—Straight ahead.
- 83.3—Cross iron bridge.
- 100.0—Turn left on Boulevard to Jefferson to Woodward to
- 104.2—City Hall.

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He takes a delight in frightening people who are getting on or off street cars, or waiting in the street for them.

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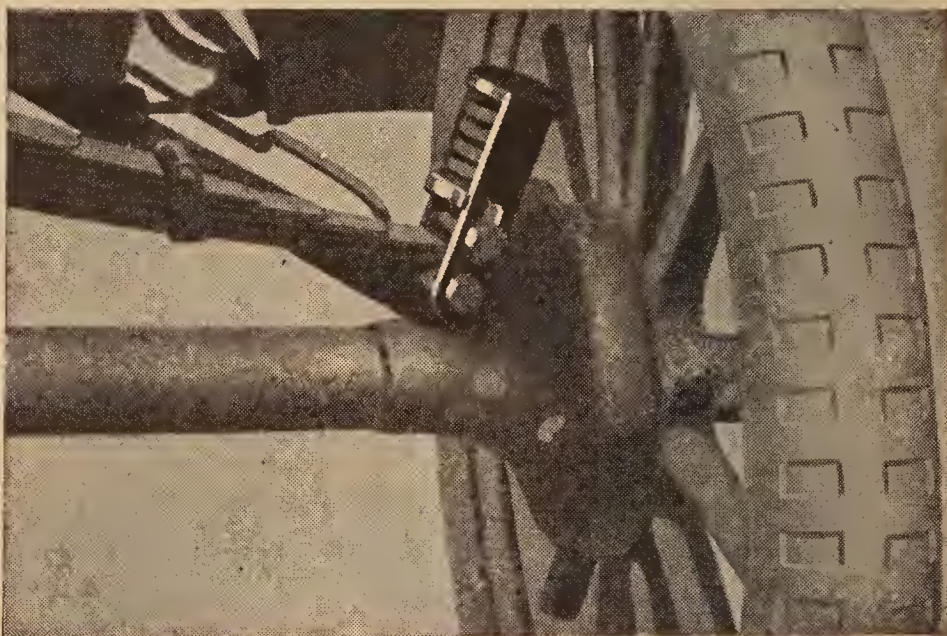
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When applied to your Ford car will make it ride 100 per cent easier. It will cut your tire bills from 25 per cent to 50 per cent. It will add years to the life of your car.

The absorber not only absorbs the shock, but prevents rebound, making it impossible to break a spring on which this device is used

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Trip No. 4

Detroit to Toledo

81.8 Miles (By way of Ypsilanti and Milan)

0.0—From City Hall go straight out Michigan avenue, following trolley lines, under railroad bridge at (2.6) and again at (2.8) to

3.5—Cross railroad.

8.5—Turn right across tracks.

13.4—Cross 2 bridges.

16.7—Inkster—Straight ahead.

- 20.3—Wayne—Straight ahead.
- 21.3—Pass under R. R.
- 25.3—Canton—Straight ahead.
- 32.0—Cross R. R. bridge, turn left, follow trolley.
- 32.7—Ypsilanti.
- 32.8—Turn left on Huron at top of hill.
- 35.0—Three corners—bear right.
- 35.5—Right hand branch—bear right with telephone poles, straight ahead to
- 39.8—Creamery on left—bear right with telephone poles.
- 41.3—Four corners—turn left, follow telephone line.
- 44.7—Turn right through Milan.
- 45.0—Turn left, cross iron bridge.
- 48.6—End of road—turn left ½ mile.
- 52.3—Cross bridge.
- 54.2—End of road—turn left.
- 54.9—Dundee.
- 55.0—Cross bridge—bear right.
- 55.6—Cross R. R.
- 60.1—Turn right—follow telephone line.
- 62.6—Ida.
- 62.7—Cross R. R.
- 70.8—Cross R. R.
- 73.5—Turn left.
- 74.4—Cross R. R.—turn right.
- 77.4—End of road—turn left.
- 77.6—Turn right—cross R. R.
- 78.1—Jog left and right across R. R.'s—follow R. R.
- 78.6—Cross R. R.—enter Toledo on Detroit Ave. to
- 79.1—Collingwood Ave.—turn left.
- 79.2—Bear left with trolley into Cherry street.
- 81.0—Turn right into Canton street.
- 81.5—Turn right into Michigan street.

TOLEDO TO DETROIT

57.9 Miles

- 0.0—Court House, Adams St.
- 0.1—Turn left off Adams.
- 0.2—Turn right off Michigan St.
- 1.0—Turn left off Madison Ave.
- 1.1—Turn right off W. Woodruff Ave.
- 1.6—Collingwood Ave.—straight ahead.
- 2.9—Follow trolley line to right.
- 3.9—4.4, 5.8 Cross R. R.'s.
- 10.6—Erie.
- 16.2—La Salle.

- 20.5—Monroe—Court house—turn right and left with trolley.
- 21.7—End of trolley line.
- 22.5—Right fork—cross R. R.
- 29.8—Newport.
- 41.0—Cross R. R.
- 42.0—Turn right.
- 42.2—Turn left off Pine.
- 42.3—Trenton.
- 43.3—Cross R. R.
- 44.4—Sibley—Follow trolley.
- 46.5—Wyandotte—Follow trolley.
- 47.3—Ford City.
- 54.6—Turn left on Military St. at Ft. Wayne barracks—cross R. R.—turn right into Fort St.—turn left into Clark St.—turn right on Lafayette St. at Clark Park—straight ahead to
- 57.9—City Hall.

DETROIT TO TOLEDO

(Direct Route)

57.9 Miles

- 0.0—City Hall—west on Lafayette Boulevard to Clark Ave.—to Fort St.—to Military Ave.—to Jefferson Ave.
- 8.5—Ecorse—Follow trolley.
- 11.4—Wyandotte—Follow trolley.
- 15.6—Trenton—Turn right, leaving trolley, then turn left.
- 16.8—R. R. crossing—straight ahead to
- 28.1—Newport—Straight ahead.
- 35.2—R. R. crossing.
- 35.4—Bend left.
- 36.2—Turn right—pick up trolley line.
- 37.0—Turn off Anderson St. on Bridge and Monroe, turn left on First St.
- 37.3—Monroe—Court house—follow trolley.
- 41.7—La Salle—Straight ahead.
- 47.3—Erie.
- 51.4—Cross trolley line and leave—cross R. R. at 52.1, 53.5, 54.0 (bend right)—54.5—straight ahead on Detroit Ave., left to Collingwood.
- 56.8—Turn left on W. Woodruff Ave.
- 56.9—Turn right on Madison Ave.
- 57.7—Turn left on Michigan St.
- 57.8—Turn right on Adams St.
- 57.9—Toledo—Court House.

Care of Spare Tires and Tubes

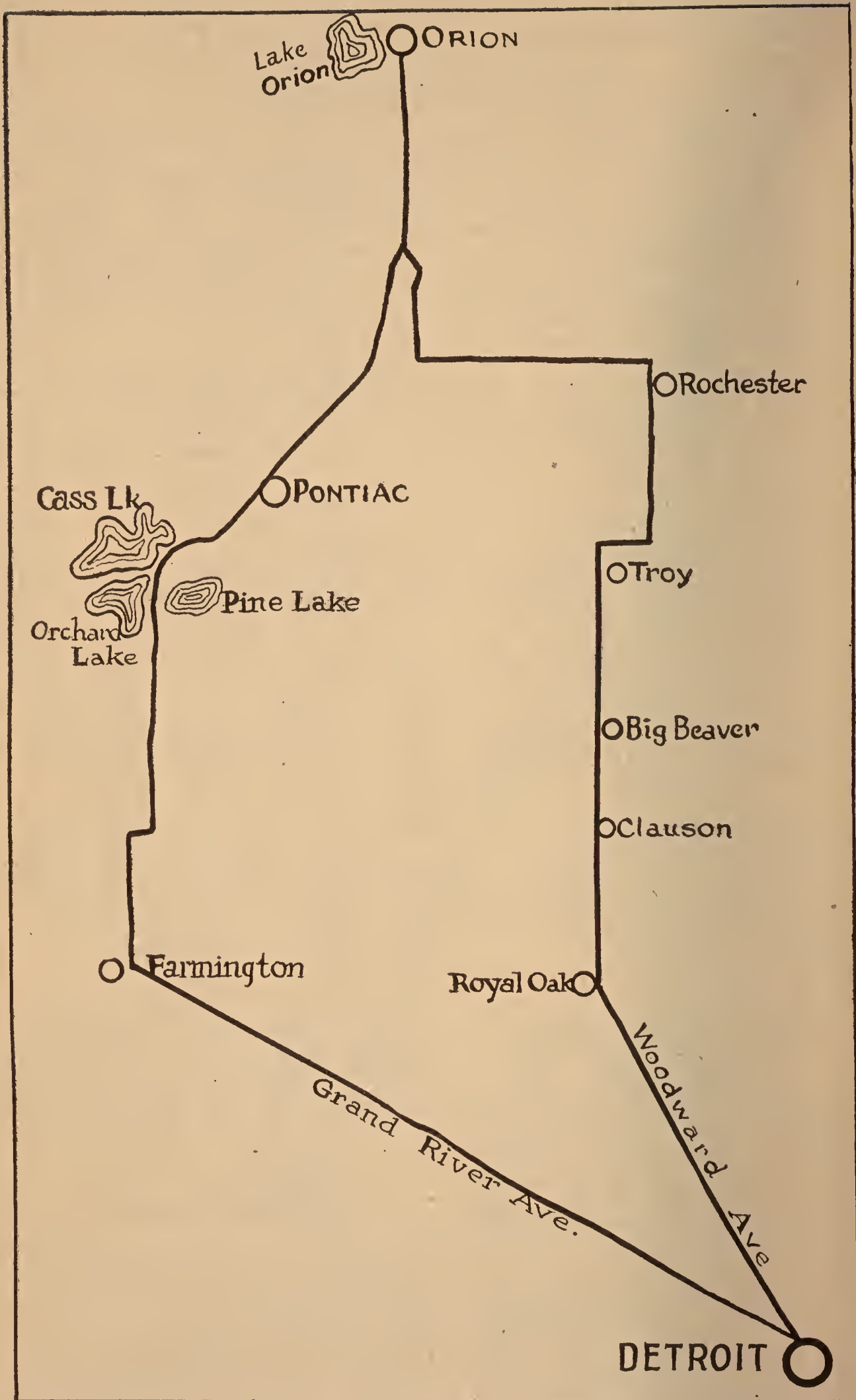
Spare tires should be protected from heat, light and dampness, which are destructive to rubber. When carried on the car, spare tires should be encased in a cover, of which there are many kinds on the market. Care should be exercised in keeping moisture out of these cases, however, and an occasional inspection should be made to see that the inside is perfectly dry.

Many motorists are careless in carrying spare tubes, which are often thrown into the toolbox without a protective covering, to be chafed by rubbing against the tools, or ruined by oil. Spare tubes should be well rubbed with French chalk, then folded carefully and tied rather loosely with wide tape. A bag made of soft material that is light-proof

and damp-proof should be provided, the inside of the bag liberally dusted with French chalk, and bag and contents should be carried carefully in some part of the car where heat, light and dampness will be excluded and where they will not be chafed by other articles.

An Improvised Vise

A very satisfactory emergency vise for holding small pieces of metal can be improvised by means of an ordinary monkey wrench and a bolt from one-half to two inches long. Open the jaws of the wrench and insert the bolt so that the head rests on one of the jaws and place the article to be held between the other jaw and the threaded end of the bolt. By tightening up on the nut, a vise-grip is obtained.



Trip No. 5

Including Royal Oak, Rochester, Orion, Pontiac, Cass Lake, Pine Lake, Orchard Lake, Grand River Avenue into Detroit—89 Miles

- 0.0—City Hall—Out Woodward.
- 5.8—Ford Motor Co.—straight ahead—follow trolley into
- 11.3—Royal Oak.
- 11.5—Cross R. R.—follow trolley to
- 25.8—Rochester.
- 26.0—Hotel on left hand corner—turn left around hotel, leaving trolley—straight ahead.
- 30.0—Descend steep grade.
- 31.7—Turn right.
- 33.3—Bear left with telephone poles.
- 38.6—Cross trolley.
- 39.2—Orion—Returning over same road to
- 46.0—Bear right.
- 46.5—Bear left.
- 47.2—Turn right, enter
- 50.3—Pontiac on winding street to
- 50.6—Huron st.—turn right—pick up trolley.
- 51.0—Turn right with trolley line on Asylum ave.
- 51.6—Turn left along asylum grounds.
- 55.2—End of road—turn left.
- 55.5—Lake on left—follow road along lake.
- 56.5—Fork—bear left, do not cross bridge.
- 58.0—Fork—bear left.
- 58.5—End of road—turn right along shore of Cass Lake.
- 59.4—Turn left then right.
- 59.7—Turn right—pick up trolley and follow.
- 60.0—End of road—turn right leaving trolley—straight ahead.
- 60.8—Cross trolley and R. R.
- 61.1—Straight ahead—follow road along Pine Lake.
- 61.6—Cross trolley and R. R.—bear left.
- 62.2—Toll gate.
- 62.4—Cross R. R.—trolley at left.
- 63.1—Follow trolley.
- 67.7—Turn left—cross trolley.
- 68.7—Turn right.
- 72.3—Grand River avenue into
- 89.0—Detroit—City Hall.

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Over 1000 Used in Detroit

The Gasolock is a great saver in gasoline. Prevents waste from leaky carburetors with its attendant danger of fire and explosion. Saves insurance. Protects your car always. Two Yale keys furnished with it. Third key kept on file in case you lose one or both.

Infringers Warned

The Gasolock is a basic patent and all makers or users of any other gasoline locking device are liable for infringement.

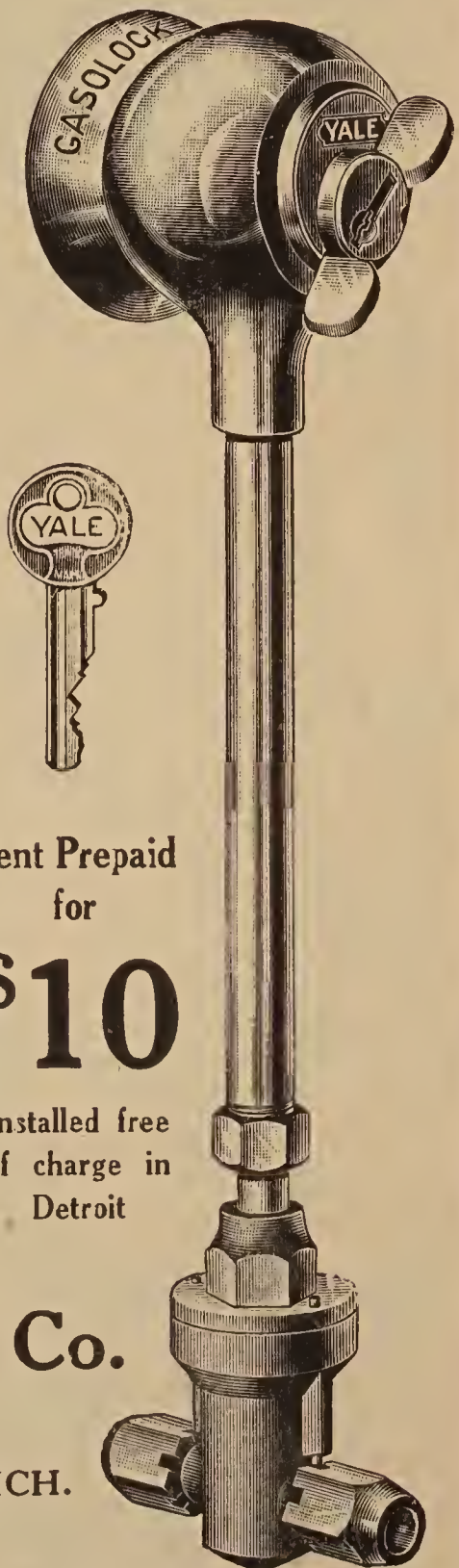
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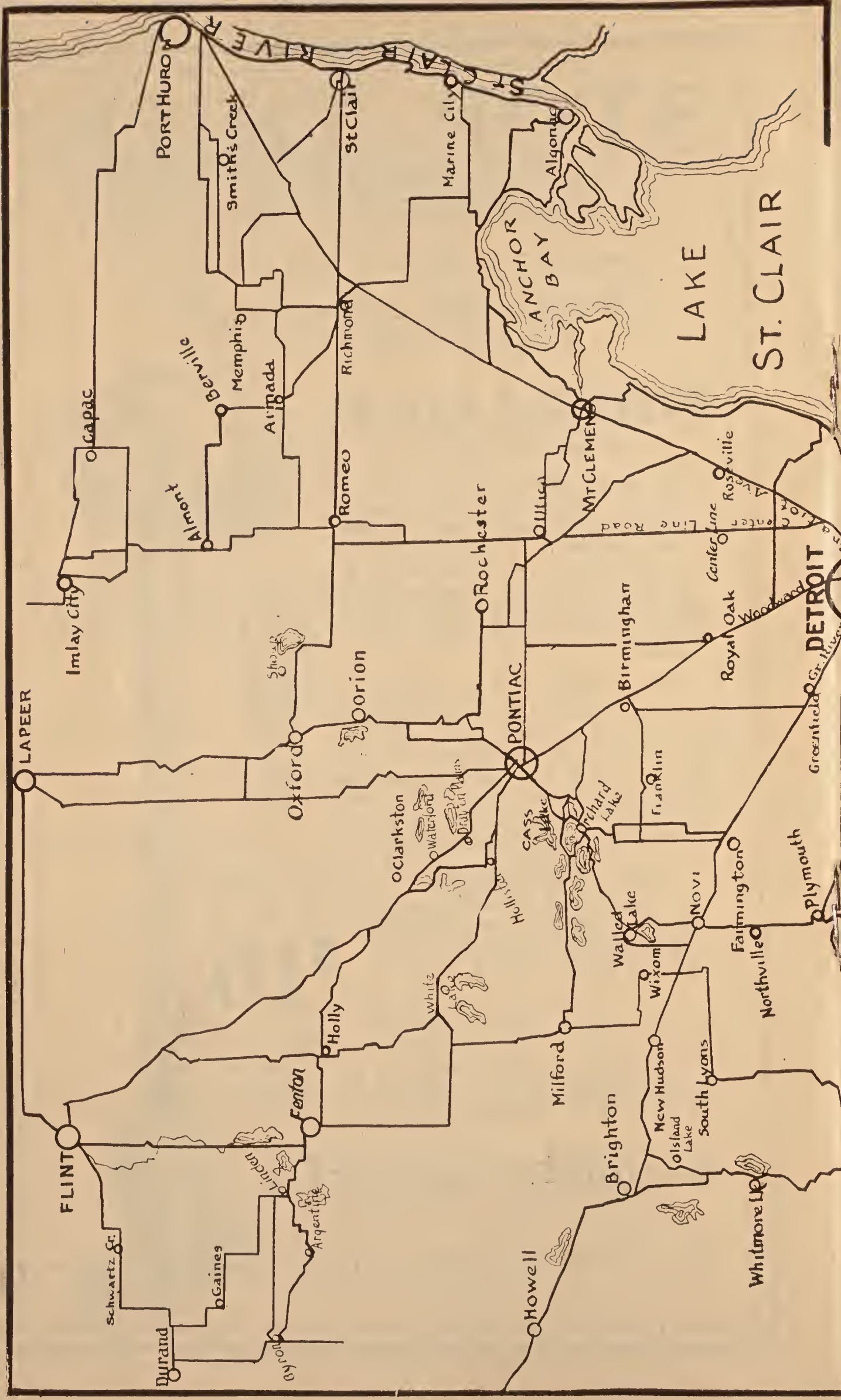
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Marine City

Howell

Milford

Brighton

Wixom

New Hudson

South Lyon

Whitmore

Northville

Farmington

Novi

Walled Lake

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Center Line

Roseville

PONTIAC

MT CLEMENS

Oakton

Plymouth

DETROIT

Greenfield

Gr. River

LAKE

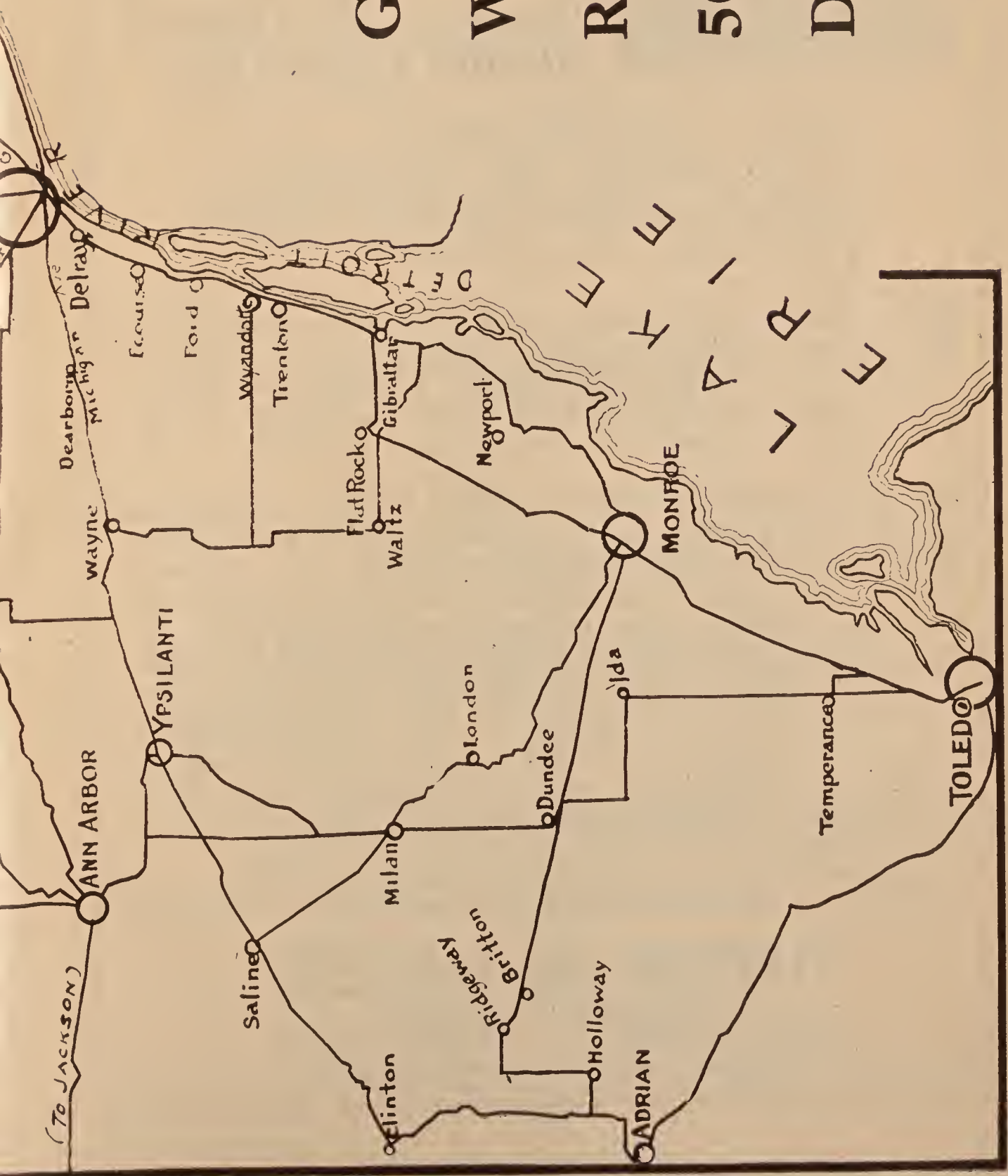
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Wayne County Concrete Roads

Few Detroit motorists are aware of the fact that more concrete roads have been built in Wayne county in the past six years than in any other county in the country. Thanks to a progressive and patriotic road commission, about 150 miles of good roads have been built since the commission was created in 1906, in which year there was not a mile of good roads or paved village streets outside of Detroit. How many Detroiters know that the longest stretch of pavement in the country is in Detroit and Wayne county—on Jefferson avenue from the Monroe to the Macomb county line, a distance of 40 miles?

There are 80 miles of concrete roads in Wayne county.

The ten leading roads from Detroit are completed to the county lines.

The distances that can be traveled on good roads from the City Hall are as follows:

Michigan, 28 miles; River Road, 25 miles; Plymouth Road, 23 miles; Grand River, 17 miles; Jefferson, 14 miles; Mack, 10 miles; Gratiot, Van Dyke, Mt. Elliott and Woodward, about 8 miles each.

Over \$1,500,000 has been spent in the construction of Wayne county roads.

Work to be completed this year is as follows:

Seven Mile Road to be paved with concrete and to connect Woodward and Jefferson avenues, a distance of 13 miles.

Dix Road, concrete from city limits to River Rouge.

Last 7 miles of the 13 mile stretch between Romulus to Wyandotte.

Five miles of good roads will be built on the west road into Trenton, and the Belleville road from Michigan avenue to Belleville, 7 miles, will be improved.

Transporting Automobiles on Boats

Practically every passenger steamer plying out of Detroit has accommodations for the transportation of automobiles. A rule rigidly enforced by all lake lines is that which prohibits the transportation of gasoline or other highly inflammable liquids in automobile tanks. For this reason it is advisable for motorists to carry just sufficient fuel to reach the boat, as the tanks are drained at the dock and no allowance is made for the fuel so removed. Gasoline can be purchased at the dock at the other end of the trip.

By signing an agreement releasing the transportation company from damages above \$150 and from all claims for loose articles in or on the car, a much lower transportation rate is granted by all the steamship companies.

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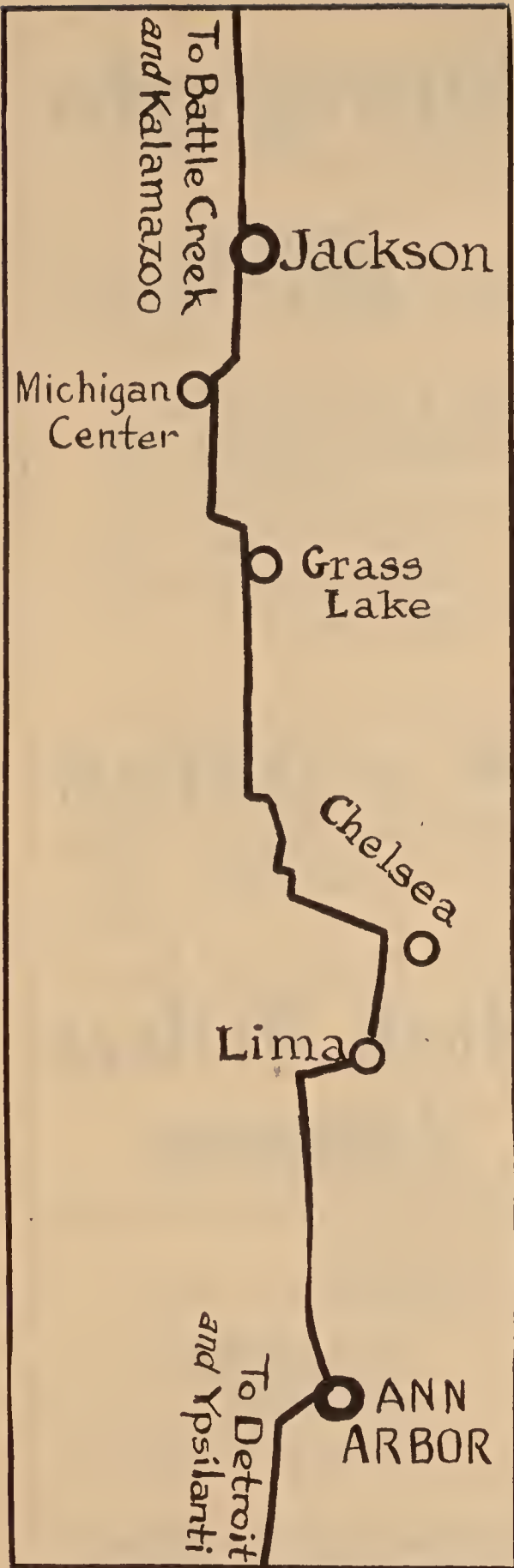
Trip No. 6 Ann Arbor to Jackson 37.5 Miles

(See Trip No. 7, Detroit to Ann Arbor)

- 0.0—Court House, Ann Arbor, go south on Main street.
- 0.1—Turn right into W. Huron street, follow trolley straight ahead.
- 10.7—Lima Center—Straight through with trolley.
- 14.0—Turn right.
- 14.5—Cross R. R.
- 14.8—Chelsea—Go west on Middle street
- 15.5—Angle right.
- 15.6—Cross R. R., parallel R. R. and
- 17.3—Cross R. R., parallel R. R.
- 17.6—Bend left.
- 18.2—Turn right.
- 18.4—Turn right.
- 25.6—Cross R. R., pick up trolley line.
- 26.1—Grass Lake—Straight through.
- 26.4—Turn left, follow trolley.
- 26.5—Cross R. R.
- 27.5—Turn right.
- 28.2—Cross R. R.
- 29.1—Cross R. R.
- 32.2—Cross R. R.
- 32.9—Michigan Center—Straight through.
- 36.5—Turn left on East Main street.
- 37.0—Cross R. R.
- 37.5—Jackson Court House.

JACKSON TO ANN ARBOR 37.5 Miles

- 0.0—Court House, Jackson.
- 0.5—Cross R. R.
- 1.0—Turn right off Main street.
- 2.2—Straight ahead with trolley.
- 4.6—Michigan Center—Straight through.
- 5.3—Cross R. R.
- 8.4—Cross R. R.
- 9.3—Cross R. R.
- 10.0—Turn left.
- 11.0—Cross R. R.
- 11.1—Turn right with trolley.
- 11.4—Grass Lake.
- 11.9—Cross R. R.
- 19.1—Turn left.
- 19.3—Turn left.
- 19.9—Bend right, pick up trolley.
- 20.2—Cross R. R.
- 21.9—Cross R. R.
- 22.0—Angle left.
- 22.7—Chelsea.
- 23.0—Cross R. R.
- 23.5—Turn left.
- 26.8—Lima Center—Straight through.
- 36.6—Bend right off Jackson street with trolley.
- 37.4—Turn left off Huron.
- 37.5—Ann Arbor Court House.



When a Nut Sticks

A nut that has been rusted on its bolt can be unscrewed with very little trouble, if kerosene is applied, and allowed to soak into the threads for several hours. If the nut is in a position where the kerosene runs off, wrap a kerosene soaked rag around it.

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Detroit Parks

Adelaide Campau Park—Jos. Campau Ave., bet. Mullett and Clinton Ave.

Atkinson Park—N. s. Devereaux, bet. 34th and Wesson Ave.

Belle Isle Park—The island in Detroit River opposite the eastern portion of the city, comprising 700 acres.

Boston Parkway—Boston boulevard east and west.

Cadillac Park—Opposite City Hall.

Capitol Square Park—Griswold, bet. State and Grand River Ave.

Cass Park—Second Ave., bet. Ledyard and Bagg.

Chicago Parkway—Chicago boulevard east and west.

Clark Park—Situated on Clark, Scotten and Dix Aves., comprising 23 acres.

Clinton Park—Bet. Gratiot and Clinton Aves., St. Antoine and Raynor.

Crawford Park—Cor. 5th Ave. and High.

Detroit Shooting Park—N. s. Mack Ave., nr. Phillips Ave., G. P. T.

Electric Park—S. w. cor. Jefferson Ave. and Belle Isle bridge.

Elton Park—Cor. 5th Ave. and Orchard.

Ferry Field—Grand River Ave. and Boulevard.

Gladwin (Water Works) Park—S. s. Jefferson Ave., opposite Cadillac Ave.

Grand Circus Park—Woodward Ave., from Park and Witherell to Adams Ave.

Harmonie Park—Bet. Grand River Ave. e., Center and Randolph.

Hurlbut Park—Detroit Water Works Grounds.

Jewell Park—W. Jefferson Ave. and Morrell.

LaSalle Park—LaSalle Blvd.

McGraw Base Ball Park—E. s. St. Aubin Ave., bet. Finley and Pollard.

Macomb Park—Rose, 17th and 18th.

Medbury Park—Medbury Ave., from John R. to Rivard.

Navin Field—N. w. cor. Trumbull and Michigan Aves.

Owen Park—On Jefferson Ave., opposite center of Belle Isle Park.

Palmer Park—Woodward Ave., six miles from City Hall.

Parker Parkway—Parker Ave., n. of Jefferson Ave.

Perrien Park—Cor. Chene and Hancock Ave.

Recreation Park—Brush, bet. Brady and Alexandrine Ave. e.

River Rouge Park—S. s. River, bet. Anchor and Cicotte, River Rouge.

Riverview Park—1478-1502 Jefferson Ave. e.

Scripps Park—Grand River, Trumbull and Commonwealth Aves.

Second Avenue Parkway—Second Ave. bet. Colburn Pl. and R. R.

Stanton Park—Porter, 17th and 18th.

Voigt Park—Bet. Edison, Longfellow, 2d and 3d Aves.

Washington Park—Washington, Michigan to Park.

Water Works Park (Gladwin Park)—E. Jefferson, opposite upper end Belle Isle.

West End Park—S. w. cor. Toledo and Waterman Ave.

American League Schedule, 1914

	AT CHICAGO	AT ST LOUIS	AT DETROIT	AT CLEVELAND	AT WASHINGTON	AT PHILADELPHIA	AT NEW YORK	AT BOSTON
CHICAGO	What April 18, 19, 20, 21 June 28 July 3, (4) (4) Oct 2, 3, 4	May 2, 3, 4, 5 Aug. 13, 14, 15, 16 Sept. 14, 15, 16	April 28, 29, 30, May 1 June 1, 2 June 29, 30, July 1 Sept. (7), (7)	April 22, 23, 25, 26 May (30), (30) Sept 4, 5, 6 Sept 29, 30	May 12, 13, 14, 15 July 21, 22, 23 Aug. 29, 31, Sept. 1, 2	May 16, 18, 19, 20 July 16, 17, 18, 20 Aug. 22, 24, 25	May 25, 26, 27, 28 July 11, 13, 14, 15 Aug. 22, 24, 25	May 21, 22, 23 July 7, 8, 9, 10 Aug. 18, 19, 20, 21
ST. LOUIS	Detroit April 18, 19, 20, 21 June 28 July 3, (4) (4) Oct 2, 3, 4	Detroit April 22, 23, 24, 25, 26 May (30), (30) 31 Sept. 29, 30, Oct 1	April 14, 15, 16, 17 June 3, 4, 5 July 5 Sept 4, 5, 6	May 6, 7, 9, 10 June 1, 2 June 29, 30, July 1 Sept (7), (7)	May 21, 22, 23 July 7, 8, 9, 10 Aug. 18, 19, 20, 21	May 25, 26, 27, 28 July 11, 13, 14, 15 Aug. 22, 24, 25	May 16, 18, 19, 20 July 16, 17, 18, 20 Aug. 22, 24, 25	May 12, 13, 14, 15 July 21, 22, 23 Aug. 29, 31, Sept 1, 2
DETROIT	May 6, 7, 9, 10 June 24, 25, 26, 27 Sept. 10, 12, 13	April 22, 23, 24, 25, 26 May (30), (30) 31 Sept. 29, 30, Oct 1	Motorists	May 2, 3, 4, 5 Aug. 13, 14, 15, 16 Sept 14, 15, 16	May 25, 26, 27, 28 July 11, 13, 14, 15 Aug. 22, 24, 25	May 21, 22, 23 July 7, 8, 9, 10 Aug. 18, 19, 20, 21	May 12, 13, 14, 15 July 21, 22, 23 Aug. 29, 31, Sept. 1, 2	May 16, 18, 19, 20 July 16, 17, 18, 20 Aug. 22, 24, 25
CLEVELAND	April 14, 15, 16, 17 May 31 June 3, 4, 5 July 5; Aug. 11, 12	April 28, 29, 30, May 1 June 24, 25, 26, 27 Sept 10, 12, 13	April 18, 19, 20, 21 June 28 July 2, 3, (4), (4) Oct. 3, 4	Want	May 16, 18, 19, 20 July 16, 17, 18, 20 Aug. 26, 27, 28	May 12, 13, 14, 15 July 21, 22, 23 Aug. 17 Aug. 29, 31, Sept 1	May 21, 22, 23 July 7, 8, 9, 10 Aug. 18, 19, 20, 21	May 25, 26, 27, 28 July 11, 13, 14, 15 Aug. 22, 24, 25
WASHINGTON	June 10, 11, 12, 13 Aug. 7, 8, 9, 10 Sept 20, 21, 22	June 6, 7, 8, 9 July 25, 26, 27, 28 Sept 17, 18, 19	June 18, 19, 20, 21, 22 July 29, 30, 31, Aug 1 Sept 27, 28	June 14, 15, 16, 17 Aug. 2, 3, 4, 5 Sept. 24, 25, 26	to Know	April 28, 29, 30, May 1 June 26, 27 Aug. 13, 14, 15 Oct 2, 3	May 21, 22, 23 July 7, 8, 9, 10 Aug. 18, 19, 20, 21	May 25, 26, 27, 28 July 11, 13, 14, 15 Aug. 22, 24, 25
PHILADELPHIA	June 14, 15, 16, 17 Aug. 2, 3, 4, 5 Sept 24, 25, 26	June 18, 19, 20, 21, 22 July 29, 30, 31, Aug. 1 Sept 27, 28	June 6, 7, 8, 9 July 25, 26, 27, 28 Sept 17, 18, 19	June 10, 11, 12, 13 Aug 7, 8, 9, 10 Sept. 20, 21, 22	May 7, 8, 9, 11 June 24, 25 Sept. (7), (7), 8 Sept 30; Oct. 1	is in the	April 14, 15, 16, 17 May 29, 30, (30); June 1 Sept. 12, 14, 15	April 14, 15, 16, 17 May 29, 30, (30); June 1 Oct 3, 6, 7
NEW YORK	June 6, 7, 8, 9 July 25, 26, 27, 28 Sept. 17, 18, 19	June 10, 11, 12, 13 Aug. 7, 8, 9, 10 Sept 20, 21, 22	June 14, 15, 16, 17 Aug 2, 3, 4, 5 Sept 24, 25, 26	June 18, 19, 20, 21, 22 July 29, 30, 31, Aug. 1 Sept 27, 28	May 2, 4, 5, 6 June 29, 30; July 1, 2 Sept. 9, 10, 11	April 23, 24, 25, 27 July 3, (4), (4), 6 Oct 5, 6, 7	Motorists	May 7, 8, 9, 11 Aug. 13, 14, 15 Sept 30, Oct 1, 2, 3
BOSTON	June 18, 19, 20, 21, 22 July 29, 30, 31, Aug 1 Sept. 27, 28	June 14, 15, 16, 17 Aug. 2, 3, 4, 5 Sept. 24, 25, 26	June 10, 11, 12, 13 Aug 7, 8, 9, 10 Sept 20, 21, 22	June 6, 7, 8, 9 July 25, 26, 27, 28 Sept. 17, 18, 19	April 23, 24, 25, 27 July 3, (4), (4), 6 Sept. 12, 14, 15	May 2, 4, 5, 6 June 29, 30; July 1, 2 Sept. 9, 10, 11	April 28, 29, 30, May 1 June 24, 25, 26, 27 Sept (7), (7), 8	Handbook



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Some Tips for Car Owners

If the car is laid up for the winter, wrapping the tires with paper or cloth should add 100 miles running to the life of these. Four times 100 at 2 cents a mile shows whether this is worth while or not. The wrapping keeps out the light which is destructive to rubber.

Mufflers should have a volume of at least four times the piston displacement of one cylinder, while from six to eight times is better.

The new oxygen or oxygen-acetylene method of burning the carbon out of cylinders should be used with care, as the heat produced by the flame is tremendous, far above anything brought about in the cylinders by the ordinary explosions.

Porous cylinders may be fixed by taking them off and rusting with a strong brine or a solution of sal ammoniac. Allow this to stand in the jackets for at least 24 hours.

In refilling storage batteries with water, be sure to pour the acid into the water and not the reverse.

The best connection for storage batteries is the lead burned joint, in which sufficient heat is applied to two cleaned lead surfaces to make them melt and flow together, thus forming a perfect electrical connection.

Old inner tube sections may be used to protect dry cells from short circuiting. Cut the tube into lengths just $\frac{1}{4}$ -inch longer than the batteries are high and stretch into place with the bottom edge flush with the base of the cell.

Similarly, old garden hose may be used to protect spark plugs, by cutting it into the correct lengths and forcing into place around the projecting part of the plugs. This forms a good method of carrying plugs loose in the tool box also, a length of hose greater than the plug by $\frac{1}{2}$ -inch being used in that case.

An ordinary hairpin is as good as anything that can be obtained or bought for finding the hole in a cotter pin which is located where it cannot be seen. The ends of the pin are rounded just enough so that it slips into the hole easily.

A piece of old flat clock spring makes an excellent thing to restore the spring of old piston rings. Cut to the length of the ring, that is, its inner circumference and place in the groove beneath the ring.

A woodruff key which moves around and gives trouble should be fixed in place with a prick punch, burring just enough of the edge of the keyway into the key or vice versa, to hold.

About Your Tires

Never run on a flat tire. It is much better to run slowly and carefully on the rim, providing the distance is not too great.

Under-inflation is responsible for more tire troubles than anything else. Keep your tires fully inflated.

Never permit weight on a deflated tire over night.

Do not overload your tires.

Grease and oil are very destructive to rubber. See that your garage floor is free from grease and oil.

See that the wheels are properly lined up and avoid excessive wear.

Avoid sudden stops and starts; go slowly around corners; do not run in ruts or scrape the tires against the curb.

Keep the rims free from rust. A little paint on the rims will add many miles of service to your tires.

Do not run in street car tracks. The sharp edges of the metal will cut a casing to ribbons in a comparatively short time.

Emergency Tire Repairs

The best tire repairs, of course, are made by experienced workmen in a shop equipped for the work. However, it becomes necessary a great many times for motorists to make emergency repairs on the road, and an emergency tire repair outfit should be a part of the equipment of every car.

An emergency outfit should contain a can of plastic rubber compound, a tube of rubber cement, a piece of sandpaper, some rubber patches, a can of French talc. A few blowout patches will come in handy in case of injury to your casing.

To mend an ordinary puncture in an inner tube, roughen the surface of the tube for several inches around the puncture and clean thoroughly with gasoline. Roughen the surface of the patch also and clean with gasoline. Cover the roughened surfaces of the tube and patch with cement, allowing it to become quite "sticky" before applying the patch. Press the patch firmly down, making sure that the edges adhere closely and allow the cement 2 or 3 minutes to dry before inflating.

Many motorists use the plastic compound in place of patches, preparing the tube as above and then applying the compound so that it will be a quarter of an inch or more in thickness over the puncture, and as thin as possible at the edges. A combination of patch and compound is often used, the patch being applied first, then cleaned with

gasoline, a coating of cement applied, and the plastic compound pressed into shape over the patch. Talc should be liberally dusted over the patch and a small quantity put into the casing and thoroughly distributed before the tube is put back.

There are two kinds of casing repair patches in general use—an inner patch with flaps that extend outside the rim, and the outer patch, which is usually laced on. In case of a severe cut or blowout, both are used. The outer patch should be laced on tightly before the tire is inflated. Should a repair such as this be necessary when running on a hot day, it is advisable to proceed at moderate speed, as much greater heat is generated at the point of repair than elsewhere on the tire, and another blowout at or near this point is possible.

Watch your casings closely and repair the small cuts as fast as you find them. Neglect of this little detail means that dirt and moisture will work their way into the fabric, which soon weakens and gives way. These little cuts should be carefully freed of foreign particles, cleaned with gasoline, lined with tire cement, and a small quantity of the plastic compound worked in. This compound is self-drying and self-curing and effectually excludes moisture and dirt. A little care such as this will be repaid many times over in the added service that the tires will give.

Emergency Tire Fillers

Ingenious motorists who have had tire mishaps that were beyond the ordinary emergency repair on the road, have stuffed old coats, robes, slip covers,

papers and what-not into the casings with which unusual tire filler they have been able to reach the nearest repair shop in comparative comfort.

Automobile and Carriage Painting and Trimming

First Class Work
A Specialty

Beaufait Painting Co.

W. L. RICE, Proprietor

225 Beaufait Ave.

Phone E. 618-J

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PALMER PARK and WOODWARD

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☐ The Good Eating of the Old Time Country Inn. ☐ The Cuisine and Service of a Most Modern Hotel Cafe. ☐ Fish, Frog and Chicken Dinners So Good the Memory Lingers.

Taxicab Rates and Regulations

First half mile, 5 passengers or less, 50 cents. Each quarter mile after first half mile, 10 cents. For carrying trunk, additional, 20 cents. Each four minutes of waiting, 10 cents. For each mile, over the first mile, in responding to call, per mile, 20 cents.

No charge can be made for responding to call less than a mile from where taxicab is summoned.

No charge shall be made for time lost through street traffic interruption.

When vehicle is dismissed at a point more than four miles from where it was engaged, or from the place in which it

was called, a charge of 20 cents a mile may be made for each mile or fraction thereof in excess of such four miles traveled in returning.

Passengers must, upon demand, be given receipt showing amount of money received, distance traveled, point at which passenger was taken on and his destination.

Each taxicab must have an incandescent lamp of not less than 4 candle-power, and so placed that passenger can readily see amount registered on taximeter.

Certificate of inspection of taximeter, also a card giving rates of fare, must be posted in conspicuous place inside of taxicab in full view of each occupant.

Improved Roads

A keener interest in improved, standardized highways is being shown today in the United States than ever before, so that the proposition to build a continuous, connected thoroughfare from the Atlantic to the Pacific, to be known as the Lincoln Highway, in memory of Abraham Lincoln, has aroused widespread enthusiasm.

Less than a year ago Carl G. Fisher of Indianapolis brought forth the plans for a coast-to-coast road, and today it is declared his plan is certain to succeed. What this means to every interest, every class of citizenship, the farmer, the merchant, the manufacturer, the salesman—everyone, cannot be told in a few lines.

When good roads were first projected through the farming districts they had no stronger, enthusiastic advocates than the farmers. They subscribed money, labor and material. They permitted themselves to be heavily taxed and these "good roads" were "built." Most of them lasted only a few months. It would have required fabulous fortunes to even keep them in repair. Part of this was due to ignorance on the part of the road makers, but principally because the local politicians, working with the contractors, absorbed too much profit. In other instances the art of road building was not considered from the standpoint of maintenance, and the changing character of vehicles which today pass over our highways was not provided for.

The farmer and the merchant of the smaller cities now agree that good roads add 50 per cent to the prosperity of the community. The automobile owners and the business men of the city of course found this out years ago, else most of our city streets would still be unpaved. So when the Lincoln Highway was projected, the three questions taken up were: First, the expense; second, scientific building and supervision, with consideration of drainage, natural materials at hand, etc.; third, the cost of maintenance.

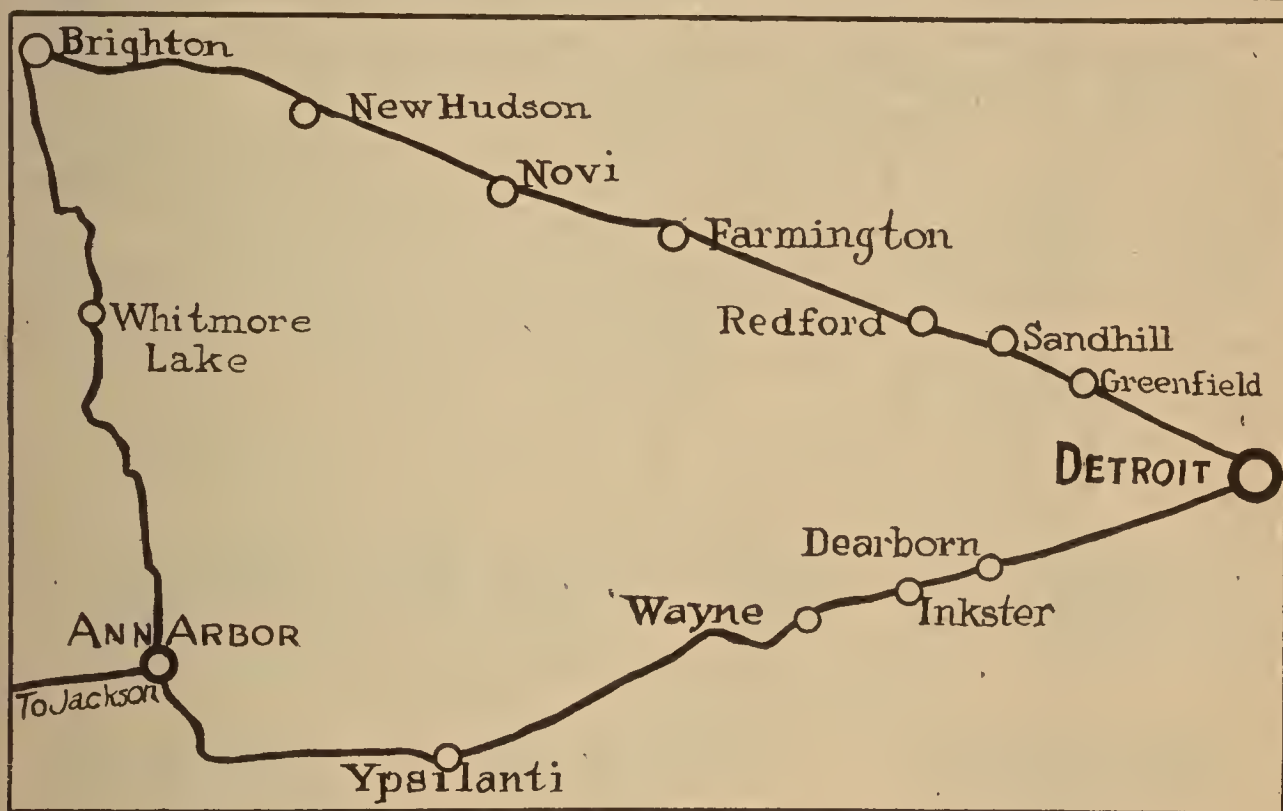
On the first proposition it was found that \$10,000,000 would be sufficient to place a hard surface on the roadway to be improved. On the second item, concrete was decided on because of the success with which concrete has met all traffic conditions, particularly in Wayne County, Michigan, where over 100 miles are laid. The third proposition is dependent on the second, and in this respect Wayne County is again referred to, the maintenance in the county per mile of concrete highway, including the cleaning of ditches, being less than \$5.

The Lincoln Highway, when completed, will be the longest connecting improved highway in the world. The association expects the local communities in most instances to prepare the road bed under the specifications adopted by the engineers of the association. Long stretches will undoubtedly be completely built by many of the states. The funds now being raised are to take care of the sections, particularly in the arid west where population is sparse. Yet it has already been found that help will not be as greatly needed as first thought as the counties are bonding themselves to assume the greater proportion of the expense of improvement. The route selected is that named after a careful survey of all the principal roads by engineers and officers of the association. It goes through thirteen states, starting at New York and ending in San Francisco, and takes in New York, New Jersey, Pennsylvania, Ohio, Indiana and Illinois in the east, with those states traversed by the old Overland Trail, Iowa, Nebraska, Wyoming, Colorado, Utah, Nevada and California, in the west.

Funds for the Lincoln Highway are being raised by many organizations and numerous individuals. State and district Consuls have been appointed for each section. Local banks are now being employed as de-

positories and over half of the amount desired is already in hand or has been pledged. Sums have been given as low as \$5 for one of the regular contributor's certificates, and as high as \$300,000. The automobile and other allied industries are greatly interested in the success of the association, but other business is represented because good roads bring business to everyone. Everyone is being asked to contribute, not only those along the highway, because the Lincoln Highway, it is believed, will be a model thoroughfare, to be copied by others and to stimulate good road building in all states.

Further, in naming this coast-to-coast road the Lincoln Highway in memory of the martyred president, its founders believe they have at last entered on a work which will be suitable in character and permanent in form as a great and lasting tribute to this country's greatest martyr. "The Lincoln Way" has already stimulated and renewed the interest of the younger generation in him, and those who contribute will assist in keeping his memory as perpetual as the life of the nation.



Trip No. 7

Including Dearborn, Inkster, Wayne, Ypsilanti, Ann Arbor, Whitmore Lake, Brighton, New Hudson, Novi, Farmington, Redford, Sandhill, Greenfield, Detroit.

- 0.0—City Hall—Out Michigan Ave. to
- 9.9—Dearborn—Straight on.
- 14.0—Inkster—Straight on.
- 17.1—Wayne—Straight on.
- 28.4—Turn left at end of road, over R. R. and then right.
- 29.3—Ypsilanti—Turn north on Washington St.—turn left on Cross St.
- 32.2—Cross R. R.—follow trolley.
- 38.6—Turn right on Main St.
- 39.0—Ann Arbor—Go north on Main St.
- 39.6—Cross R. R.
- 40.3—Cross R. R.
- 44.1—Angle right, turn left.
- 45.8—Angle left.
- 45.9—Turn right.

- 48.0—Turn right.
- 48.7—Bend right.
- 48.8—Cross R. R.—bend left.
- 49.3—Whitmore Lake—Straight on.
- 49.5—Fork—take right.
- 50.7—Cross R. R.
- 51.6—Turn left.
- 52.4—Turn left.
- 56.8—Cross R. R.
- 57.4—Brighton.
- 61.9—Turn left.
- 66.3—Cross R. R.—on Grand River Ave.
- 67.2—Howell—Court House—turn and go east on Grand River Ave. to
- 77.0—Turn right—straight ahead to Brighton—Straight ahead.
- 77.3—Turn left.
- 85.6—New Hudson—Straight ahead.
- 86.0—Cross R. R.
- 92.5—Cross R. R.
- 92.9—Novi—Straight ahead.
- 97.6—Angle right.
- 98.0—Farmington—Straight ahead.
- 104.8—Redford—Straight on on Grand River Ave. to
- 116.8—Detroit—City Hall.

Wolverine Automobile Club Success

The Wolverine Automobile Club is four years old with the date of this article. It was incorporated and organized in the month of June, 1910, with fifteen charter members, within three months added 352 members, and on October 27 absorbed the Detroit Motor Club. The establishment of club rooms was started with quarters in the Griswold House, and in 1910 as the membership grew, larger quarters were necessary and arrangements were made with the Hotel Tuller where better accommodations were found. Since the beginning of 1911 the club's record has been one of great public activity, and since this time the organization has promoted under and run special club trains to the New York and Chicago Automobile Shows each year—conducted many affiliation tours around the lakes and to nearby points—given valuable assistance in the boosting of several bond issues of Wayne County for the good roads movement—invaded the legislation halls of Lansing to lend support to the several bills approved for the making of better roads throughout Michigan—carried on several sign boarding expeditions that have placed thousands of sign boards indicating direction and danger points on all main thoroughfares leading out of Detroit—arranged for and conducted special train of accommodations with the railroads and automobile tours to and from the Speedway Race at Indianapolis on Decoration Day each year—has been active in the local traffic and speeding laws and ordinances of Detroit in seeing that they are carried out in the spirit as well as in the letter.

In 1913, under a most progressive management, the officers of the Wolverine Automobile Club found it necessary to secure one of the finest equipped homes of any similar club in the country and established their headquarters in the Springfield Building, 125-127 Woodward avenue, where it has two entire floors with a perfectly equipped cafe, buffet, pool, billiard and card rooms, as well as a reading and lounging room. At the annual meeting held in January, 1914, the present officers were elected:

OFFICERS.

C. A. PFEFFER.....	<i>President</i>
A. R. MILLER.....	<i>First Vice President</i>
J. H. ARMSTRONG.....	<i>Second Vice President</i>
F. M. RANDALL.....	<i>Treasurer</i>
R. B. ABBOTT.....	<i>Secretary</i>

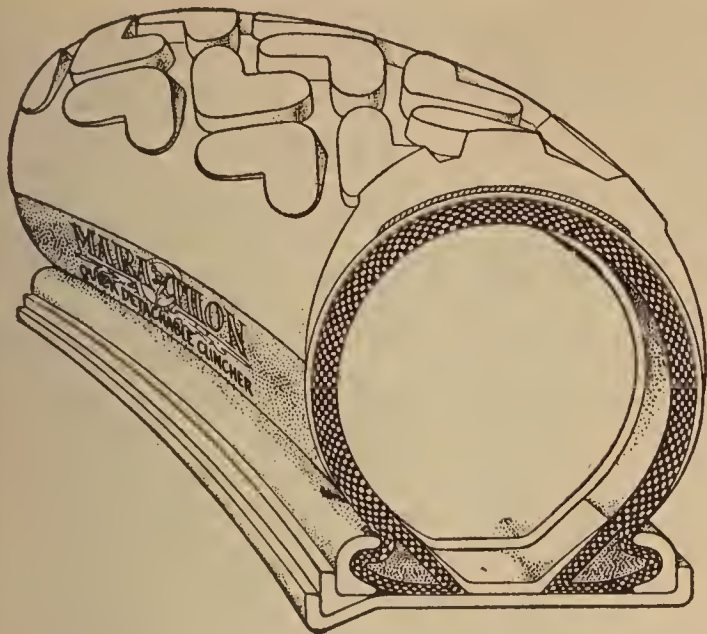
DIRECTORS.

C. A. Pfeffer	A. R. Miller	R. B. Abbott
F. M. Randall	C. D. Wight	Geo. Klein
M. C. Dewitt	J. H. Armstrong	C. A. Woodruff

The following appointments were made in regard to the Standing Committees for the ensuing year:

Contest Committee—H. H. Newson. *Technical Committee*—S. H. Humphrey. *Runs and Tours Committee*—W. B. Bachman. *Sign Board Committee*—C. A. Boyd. *Finance Committee*—C. A. Woodruff. *Entertainment Committee*—Dr. A. L. McPhee. *Legislative and Ordinance Committee*—Wm. G. Bryant. *House Committee*—C. K. Brauns. *Membership Committee*—R. K. Davis. *Good Roads Committee*—Ed. N. Hines. *Publicity Committee*—F. M. Randall. *Billiard Committee*—M. W. Wells.

The Wolverine Automobile Club at the present time has a membership of over two thousand active members, which places it in the front rank of all automobile clubs in the country.



All Marathon Automobile Tires

Are Factory Insured for 4000 Miles

Greatest possible mileage—service—is the Marathon goal. And to give it, we build in the *topmost quality*—unlimited by cost, or by our profit. The **Marathon Tire** is hand built, which insures perfect construction. The tread is concentrated and the construction is unitized by a secret process.

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ARE THE SOLE DISTRIBUTORS FOR WAYNE, MACOMB, OAKLAND, WASHTENAW AND MONROE COUNTIES, and they invite all Auto Owners to come and examine their large stock.

VULCANIZING WHILE YOU WAIT A SPECIALTY

Prompt and Efficient Service is the secret of the Superior Tire Co.'s success. Sections, Spot Jobs, and Fabric Reinforcements, one day service. Most Modern and Up-to-date Repair Shop in the city. A full line of Automobile Accessories carried in stock.

FREE AIR STATION—Location one block East of Mount Elliott

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Lozier Motor Car Owners

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Make a specialty of repairs TO ALL TYPES OF LOZIER CARS. All work done under supervision of proprietors, who have had years of experience with the Lozier Motor Co.

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ESTIMATES GIVEN

Work Done in Your Own Garage on Request

Telephone Cadillac 5570

Address 99 ADAMS AVE. WEST, Off Cass St.

Rear of Detroit Creamery Premises

**HAVE YOUR CARS REPAIRED BY THE MEN WHO
KNOW HOW**

Trip No. 8 Detroit to Port Huron 61.2 Miles

- 0.0—City Hall—South on Woodward to
- 0.2—Turn east on Jefferson.
- 2.7—Turn north on Boulevard.
- 4.7—Turn right on Gratiot—straight through, paralleling trolley to
- 21.5—Mt. Clemens—Court House—straight ahead on N. Gratiot.
- 22.4—Cross trolley.
- 27.2—Leave trolley and cross R. R.
- 36.8—Muttonville—Turn right.
- 46.2—Cross R. R.
- 48.7—Turn left through St. Clair.
- 56.6—Turn left.
- 56.7—Turn right.
- 57.4—Cross R. R.
- 58.4—Cross R. R.—straight on Military street.
- 61.2—Port Huron.

PORT HURON to DETROIT 61.2 Miles

- 0.0—Court House—South on Military street.
- 2.8—Cross R. R.
- 4.5—Turn left at end of road.
- 4.6—Turn right at end of road.
- 11.5—St. Clair—Straight through—turn right at salt works.
- 14.0—Cross R. R.
- 24.4—Muttonville—Turn left, follow main road.
- 33.8—Cross R. R.
- 38.5—Cross R. R.
- 39.5—Mt. Clemens—Straight through on Gratiot Ave.
- 56.5—Turn left on Boulevard.
- 58.5—Turn right on Jefferson.
- 60.9—Turn right on Woodward.
- 61.2—Detroit—City Hall.

Washing the Car

Never attempt to rub off dust or mud. Allow a stream of water from a hose without a nozzle to play over the surfaces, as a strong stream tends to drive the grains of sand or dirt over the paint too rapidly, causing scratches. When all the dirt possible has been removed, a sponge may be used which should be kept constantly soaked by allowing the stream from the hose to play on it. Where there is considerable mud to be removed, the sponge should be wrung frequently so that no grit will adhere to it. When all dirt has been removed, the drops of water clinging to the paint should be wiped off with a thoroughly moistened chamois, which should be frequently rinsed in clear water.

LA AZORA
THE CIGAR OF CIGARS



Detroit Cemeteries

Beth David (Jewish), west side Van Dyke, 1 n. Woodlawn Ave.

Beth Olem (Jewish), n. e. cor. Smith and Grace Aves.

Elmwood (Protestant), Elmwood Ave., bet. Champlain and Waterloo.

Evergreen Cemetery, Woodward Ave., bet. Palmer Park and Woodlawn Cemetery.

Forest Lawn, G. T. Ry. and Norris Plank Road.

Gethsemane Evangelical Lutheran Cemetery, Gratiot road, bet. French road and Connors creek.

Grosse Pointe Cemetery, e. side Morross Rd., opp. Kerby Rd.

Holy Cross Cemetery (R. Catholic), Dix Ave., 5 miles from City Hall.

Lutheran Cemetery, n. e. cor. Mt. Elliott and Farnsworth Aves.

Machpalah Cemetery (Jewish), Woodward Ave., 3 miles n. city limits.

Mt. Elliott (R. Catholic), Mt. Elliott Ave., n. of Fort.

Mt. Olivet (R. Catholic), Mt. Olivet Station on G. T. Ry., ½ mile e. of Norris.

Oakview Cemetery, adjoining Royal Oak.

Roseland Park Cemetery, n. w. Woodward Ave. and 12 Mile road.

Sacred Heart of Mary (Polish R. Catholic), s. side Davison Blvd., ¼ mile w. Mt. Elliott Ave.

St. Alphonsus (R. Catholic), s. side Schaefer Rd., n. of Warren Ave. W.

St. Paul's Cemetery e. side Morross road, nr. Ridge road, Grosse Pointe Farms.

Woodlawn Cemetery, Woodward Ave., 3 miles n. city limits.

Woodmere (Protestant), Fort St., cor. Woodmere Ave., 4¾ miles from City Hall.

Belle Isle—Motorists Paradise

Belle Isle, with many miles of splendid roads, ideal picnic spots, athletic grounds, pavilions, zoo, horticultural exhibits, aquarium, bathing beach, canals, children's playgrounds, the constant procession of big boats up and down the river and the kalidoscopic evolutions of pleasure craft of all kinds in the American channel and in Lake St. Clair, is deservedly the most popular spot in Detroit among motorists.

From early summer until fall, the upper end of the island is the Mecca for thousands of motorists every day and on many occasions during the season there is an almost solid fringe of cars extending from the athletic field around the upper end and down to the yacht club on the north side.

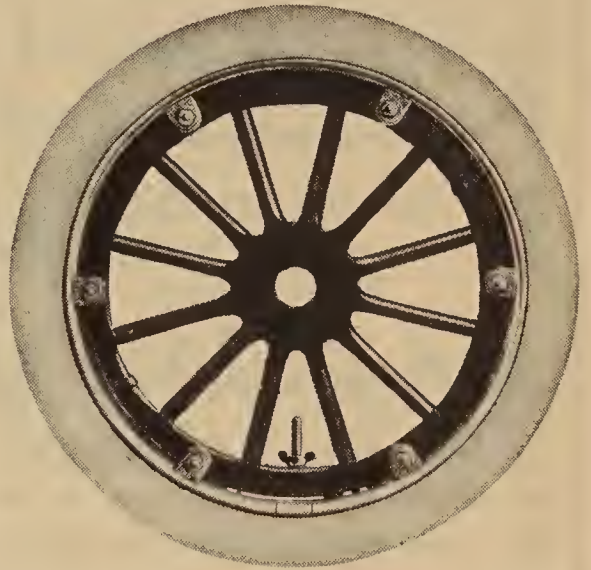
The convenience of motorists has been greatly enhanced by the addition of a refreshment pavilion at the upper end of the island, where hot water, tea, coffee, soft drinks and eatables can be obtained by picnickers. A large number of rustic benches and tables have also been erected.

Belle Isle is the largest of Detroit's pleasure parks, containing 707 acres.

Detroit Demountable Rim Co.

W.C.F.V.M.D.

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DETROIT



The Record Substantiates Its Every Claim for Consideration.

The Detroit Demountable Rim is perfect and is noted for quick and easy operation without special tools; it is light—yet strong—and the cost is low.

This Company also specializes in FORD CARS, furnishing four painted wood wheels and five Detroit Demountable Rims and Tire Carrier for each car.

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Phone or postal receives prompt attention

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44 Grand River Ave. W., DETROIT

There is Quality and Satisfaction

In every garment
that comes from

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Tailor for Men

Suit or Overcoat

\$35.00 to \$60.00

94 West Fort Street

Motor Troubles

Motor Stops Suddenly—1. Lack of gasoline. 2. Spark plug broken. 3. Ignition wires disconnected or broken. 4. Short circuit in ignition system. 5. Pistons "frozen," due to lack of gasoline.

Motor Will Not Start—1. Gasoline shut off. 2. Ignition switch off. 3. Mixture too rich or too weak. 4. Water in gasoline. 5. Jet choked, of insufficient bore or frozen. 6. Vacuum in gasoline tank (gravity feed systems) through want of air inlet. 7. Valves stuck. 8. Valve springs broken or displaced. 9. Weak battery. 10. Spark plug broken or dirty. 11. Cylinders dry, due to lack of lubrication.

Motor Slows Up and Misfiring—1. Lack of Gasoline. 2. Water or dirt in carburetor. 3. Battery Weak.

Explosions Regular But Weak—1. Muffler clogged. 2. Mixture too weak. 3. Magnets out of adjustment. 4. Valve springs weak.

Knocking in Motor—1. Loose bearings. 2. Loose flywheel. 3. Motor loose on frame. 4. Insufficient lubrication. 5. Cylinder block loose on crankcase. 6. Spark too far advanced. 7. Gas mixture too weak or rich. 8. Loose connecting rods. 9. Carbon in cylinders. 10. Brakes not released.

Engine Hissing—1. Spark plug loose or broken. 2. Valve cap loose. 3. Piston ring defective.

Back Firing—1. Weak mixture. 2. Inlet valves leak, or will not close properly. 3. Inlet valves not properly timed. 4. Spark too much retarded.

Explosions in Muffler—1. Exhaust valves stuck or do not seat properly. 2. Mixture fails to fire in cylinder and is pumped into muffler and exploded. 3. Defective ignition.

Water Boils in Radiator—1. Radiator tubes or hose clogged. 2. Over-retarded spark. 3. Water circulation defective. 4. Muffler clogged. 5. Fan not operating. 6. Using low gears too long.

Motor Acts Irregularly—1. Water in gasoline. 2. Mixture too rich or too weak. 3. Poor contact in timer. 4. Air leak in manifold. 5. Clogged gasoline feed pipe. 6. Defective spark plug. 7. Short circuit in ignition.

Car Runs Slowly—Motor O. K.—1. Clutch slipping. 2. Brakes dragging.

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THE CIGAR OF CIGARS

SAFETY FIRST

We make new repair parts for any make of automobile. We repair anything that is broken. We also do welding of broken parts. We make tools, dies and jigs. We have the best equipped automobile machine shop in the city. Prices reasonable. No delays. Give us a trial.

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UPHOLSTERING and TRIMMING
AUTOMOBILES and FURNITURE

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SAFE
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AUTO INSURANCE

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Main 3203

Fishing Information For Detroit Motorists

Detroit motorists are exceptionally favored in the number of easily accessible places to fish. Within a radius of 50 miles of Detroit, particularly in Oakland county about Pontiac, are several hundred small inland lakes, most of which abound with bluegills, perch, sunfish, rock bass and other excellent

pan fish, as well as containing the game fishes—small mouth and large mouth black bass, pike and pickerel. A few of the lakes contain whitefish, lake trout and herring. In addition, the lower Detroit river, upper Lake St. Clair and the St. Clair river offer excellent opportunities for anglers.

Popular Fishing Lakes

Following are some of the popular lakes and the roads by which they are reached:

Farmington - Pontiac Road—Walnut Lake, Pleasant Lake, Orchard Lake, Cass Lake, Pine Lake, Sylvan Lake, Ford Lake, Square Lake, Crystal Lake.

Pontiac-Milford-Rose Center Road—Green Lake, Upper Straits Lake, Middle Straits Lake, Lower Straits Lake, Union Lake, Long Lake, Commerce Lake, Cooley Lake, Cedar Island, Oxford Lake, Bass Lake, Lower Pettibone Lake,

White Lake, Kellogg Lake, Woodruff Lake, Duck Lake, Buckhorst Lake.

Pontiac-Clarkson Road—Scott Lake, Watkins Lake, Silver Lake, Corn Lake, Pond Lake, Woodhull Lake, William Lake, Mace Day Lake, Lotus Lake, Greens Lake, Deer Lake.

Pontiac-Oakwood Road—Angelus Lake, Judah Lake, Voorheis Lake.

Livingston County—There are a number of good lakes in Livingston county, easily reached from Ann Arbor. Among them are Whitmore Lake, Inchwagh Lake, Greenoak Lake.

Michigan Fish Laws

Landlocked Salmon, Grayling, Speckled, California, Loch Leven and Steelhead Trout—Open season May 1 to Sept. 1. Must be over seven inches long. Unlawful to take from stocked stream for four years after stocking. Unlawful to sell Brook Trout or Grayling.

Bass (all kinds)—Open season June 15 to Jan. 31. Unlawful to sell. Unlawful to take in any manner except with hook and line.

Small Mouth and Large Mouth Bass—Unlawful to take more than 10 in one day or to have more than 10 in possession at any time. Unlawful to take less than 10 inches in length.

Strawberry, White, Silver or Calico

Bass—Unlawful to take more than 20 in one day or have in possession more than 20 at one time.

Spearing—Unlawful to spear fish in inland lakes except through the ice, during December, January, February and March. Lawful to spear fish in river and stream, but during March, April, May and June, only Grass Pike, Mullet, Suckers and Redsides may be speared. Unlawful to spear at any time in lakes or streams—Sturgeon, any kind of Bass except Rock Bass, or any kind of Trout.

It is unlawful to transport any protected fish or game beyond the borders of the state. The use of explosives for fishing is prohibited.

Boats and Tackle

At practically all points where public fishing is permitted, fishing boats are to be obtained at prices ranging from 50 cents per day for an ordinary fishing punt to \$10 per day for a launch with guide. Nearly all boat liveries provide bait at reasonable prices, and many even furnish fishing tackle.

Trout Fishing

Some very good trout fishing may be enjoyed by devotees of the fly and casting rod in the small streams near Detroit. Good catches of brook trout and a few rainbow trout are reported from Hummer Creek, Thurston Creek, Tanner's Creek and Stoney Creek, near Oxford and from Pettibone Creek, Field Creek, Sherwood Creek and other creeks about Milford.

Mr. Automobile Owner—

Are You Aware That You
Can Garage Your Car For

\$8.00 Per Month

THE PARISIAN GARAGE

248 JEFFERSON AVE., DETROIT

Has storage facilities for 60 cars. Get in touch
at once with

C. LAVOIE, Proprietor

(Successor to Cobb Brothers)

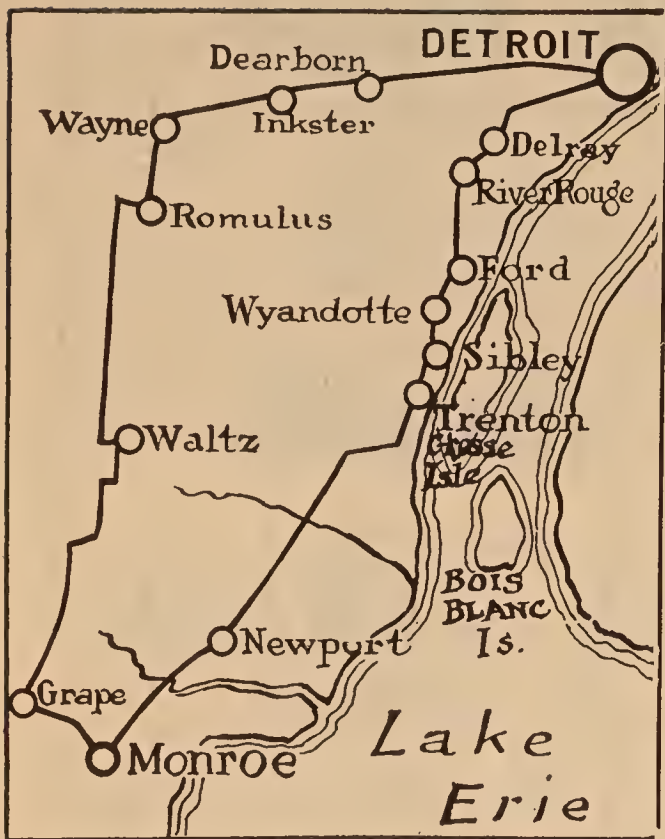
And he will give you every satisfaction

MR. LAVOIE has had
years of experience
with American, French and
English Factories, and is an
expert at repair work.

The Parisian Garage has
the largest Garage Machine
Shop in Detroit, and em-
ploys the most men. All
work done under personal
supervision of Mr. Lavoie.

**Special Attention to Touring Parties. Gasoline, Oil
and Air Station. Tires and Accessories
of Every Description**

Trip No. 9



- 51.6—Bend right.
- 58.9—Newport.
- 70.2—R. R. crossing.
- 71.1—Turn right.
- 71.3—Turn left.
- 71.4—Trenton—Follow trolley.
- 75.6—Wyandotte—Straight through.
- 76.4—Ford—Straight through.
- 83.6—Turn left on Military St. at Ft. Wayne to Fort street, to Clark Ave., to Lafayette Ave., to
- 87.0—City Hall.

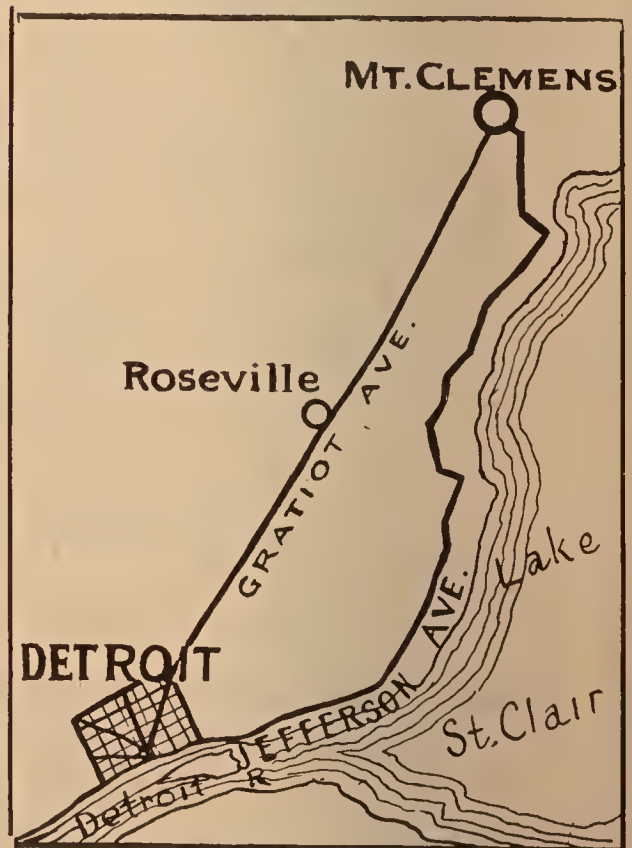
Preserving Rubber Mats

Rubber mats that have been used, and are more or less spotted with oil and grease, can be improved in appearance and made to last much longer by a coat of lead color paint, which makes the mat oil-proof and easy to clean.

“SHORE LINE” TRIP— DETROIT TO MT. CLEMENS

Appr. 42 Miles (Route Not Officially Measured)

City Hall—Woodward avenue—turn east on Jefferson—follow car line to County Club—straight ahead—pick up car line 2.0 past County Club—follow car line into Mt. Clemens. See Trip No. 8 for Mt. Clemens-Detroit road directions.



Including Dearborn, Inkster, Wayne, Romulus, Waltz, Grape, Monroe, Newport, Trenton, Sibley, River Rouge, Delray, Detroit—87 Miles.

- 0.0—City Hall—Out Michigan Ave. to
- 10.1—Dearborn—Straight through
- 14.2—Inkster—Straight through.
- 17.3—Wayne—Turn south on Monroe Ave.
- 17.6—R. R. Crossing.
- 22.4—Turn right.
- 22.7—Turn left.
- 26.2—Cross R. R.—turn left.
- 26.4—Turn right.
- New Boston.
- 26.5—Turn left.
- 27.7—Turn right.
- 28.5—Turn left.
- 33.4—Turn left.
- 33.9—Turn right.
- 35.1—Turn left.
- 35.6—Turn right.
- 35.7—Turn left.
- 36.1—Carleton.
- 36.2—Cross R. R.
- 37.8—Parallel R. R. on right—turn left.
- 38.7—Bend right.
- 42.6—Turn right.
- 44.6—Right hand fork.
- 49.4—Turn right, then left.
- 49.7—Monroe—Court House—go west on First St. to
- 49.8—Turn right off First St.—straight ahead off Monroe Ave.
- 50.0—Turn right off Bridge St. with trolley.
- 50.8—Turn left—trolley line ends.

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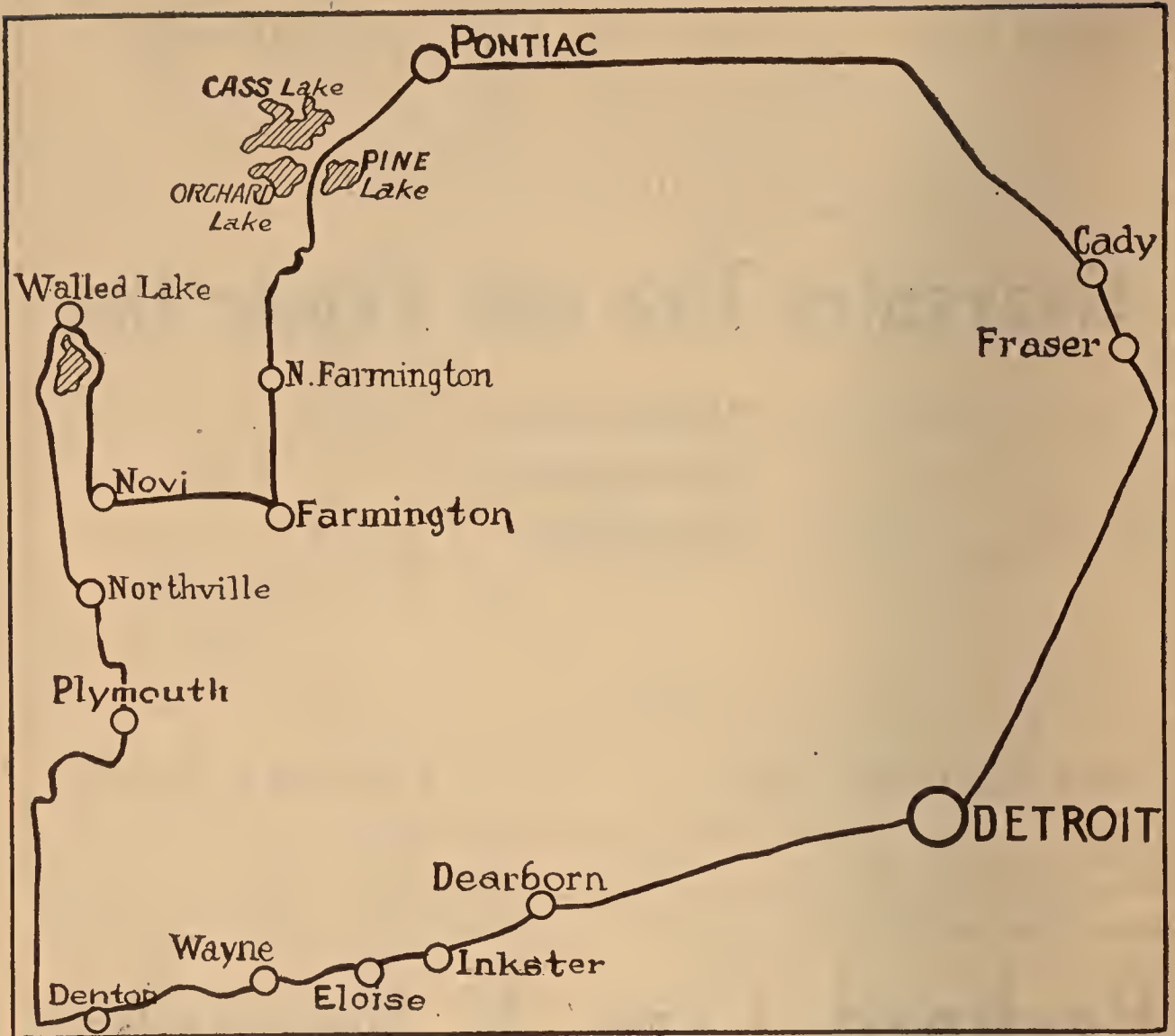
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Trip No. 10



Including Dearborn, Inkster, Wayne, Plymouth, Northville, Walled Lake, Novi, Farmington, N. Farmington, Orchard Lake, Cass Lake, Pontiac, Cady's Corners, Frazer, into Detroit—115 miles.

- | | |
|---|--|
| 0.0—City Hall to | 39.6—Turn right. |
| 3.5—Cross R. R. follow concrete road. | 41.6—Crossroads—Turn left with double line of telephone poles. |
| 10.3—Dearborn. | 44.6—Turn right. |
| 14.1—Inkster. | 47.0—Turn right. |
| 15.8—Wayne County Poor Farm. | 48.0—Turn left just past schoolhouse. |
| 17.6—Wayne. | 49.0—Turn right. |
| 18.7—Pass under R. R. | 50.0—Cross R. R. |
| 22.8—Fork just before entering Canton—Bear right, crossing and leaving trolley. | 52.2—Turn right. |
| 22.9—Shelden M. E. church—straight ahead. | 52.6—Bear right into Walled Lake Village—keep on lake road. |
| 23.4—Turn right, follow double line of telephone poles—straight ahead. | 56.6—Novi—Turn left—straight ahead. |
| 28.5—Jog right and left. | 61.8—Farmington—Turn left where trolley comes in at right. |
| 29.0—Curve with road. | 62.0—Turn right—steep grade and bad curve. |
| 30.0—Turn left. | 66.0—N. Farmington. |
| 30.8—Plymouth—Follow trolley to | 68.5—Turn right. |
| 33.9—Turn left. | 68.9—Turn left. |
| 36.0—Turn right. | 69.4—Jog right and left. |
| 37.1—Turn right. | 69.8—Turn left—trolley at right. |
| 38.2—Turn left. | 70.6—Bear right (toll gate). Orchard Lake. |
| 38.8—Northville. | |
| 38.9—Turn left into Dunlap St. | |
| 39.0—Turn right. | |
| 39.1—Turn left. | |

(Continued on Page 66)

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Contains necessary paints, varnishes, and enamels to repaint a car like new from top to bottom. Goods are high grade and guaranteed, easily applied, streaking impossible. Directions furnished. Ford car \$6.50, others larger \$9.50 (Colors black or gray)

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increases mileage, makes tire waterproof, preserves casing, prevents blowout. Price reasonable.

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removes dirt, fills cracks, gives body high grade polish, keeps car looking new, leaves dry surface—dust will not stick. Recommended on highly finished bodies or furniture, absolutely harmless. Once used you will never change. 25c to \$2.50

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Other Wang Motor Specialties are: Black Enamel, Cylinder Enamel, Auto Body Color, Running Gear Paint, Enamel Dressing, Auto Varnish, Mohair Waterproofing, Glass Cleaner, Reflector Polish, Radiator Compound, Valve Grinding Compound and Carbon Remover.

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State Distributors

Cadillac 6682

607 SUN BUILDING, DETROIT

Trip No. 10

(Continued from Page 64)

- 71.2—Fork—turn right—cross trolley—keep along lake.
- 71.8—Fork—keep to left.
- 72.0—Cross R. R. and trolley.
- 73.7—Fork—keep to left.
- 74.7—Cross R. R.—enter Pontiac on Orchard St.
- 76.3—Saginaw and Orchard Sts.—turn right into Saginaw and immediately left into Auburn Ave.—straight ahead.
- 88.1—Curve right with main traveled road.
- 89.4—Fork—bear right—cross R. R.—avoid road to left.
- 90.2—Bear left.
- 95.7—Cady's Corners—Straight ahead.
- 97.3—Fraser—Straight ahead.
- 98.1—Cross R. R.
- 99.9—Turn right into Gratiot Ave.
- 110.0—Turn left into Grand Blvd.
- 111.9—Turn right into Jefferson Ave.
- 114.4—Turn right into Woodward Ave.
- 114.9—City Hall.

Removing Carbon Deposits

Kerosene is an excellent preventative of carbon, according to many authorities. After every two or three hundred miles of running, it is well to inject through the pet-cock or spark-plug hole 2 or 3 tablespoonfuls of kerosene while the motor is hot. Allow this to remain over night, and it will be scavenged from the cylinders when the motor is run the following day. Kerosene can also be introduced by injecting into the carburetor while the engine is running. This cleans

the valves as well as the cylinders and pistons. Denatured alcohol can be used in the same manner.

There are several fluid decarbonizers on the market for which good results are claimed. These liquids are for softening the carbon deposits which are blown out of the exhaust when the motor is run. Great care should be used in applying these decarbonizers according to the directions of the manufacturers.

The new oxy-acetylene gas method of decarbonization is effected by introducing the gas flame into the combustion chamber, the carbon deposits being consumed. As the heat from the oxy-acetylene gas is much greater than any that is generated in the ordinary explosions, this method should be used with care.

Many motorists, in case of excessive carbon deposits, inject about two tablespoonfuls of denatured alcohol into each cylinder through the spark plug holes while the motor is hot, and after several hours a carbon scraper or a piece of bent wire is used to loosen the deposits, which can be withdrawn piecemeal. The disadvantage of this method lies in the fact that bits of carbon are likely to lodge under the valves, causing a loss of compression and power, and making it necessary to re-grind the valves.

Care of the Hands

Before starting in to do any work on the car, it is a good plan to fill the finger nails and cover the hands with soap. This prevents lodgment of dirt and grease in places from which it is difficult to remove it.

Trip No. 11

Including Royal Oak, Birmingham, Pontiac, Utica, Mt. Clemens, Detroit.



- 0.0—City Hall—Straight out Woodward.
- 6.0—Cross R. R.
- 11.1—Cross trolley.
Royal Oak—Straight out on Woodward Ave.
- 17.0—Birmingham.
- 23.2—Cross R. R.
- 23.7—Cross R. R.
Pontiac.
- 24.4—Turn right on Auburn Ave.—straight ahead.
- 35.9—Turn right.
- 37.2—Turn left—cross R. R.
- 37.7—Utica—Leave on Cass St. going east—turn left at Town Line St.
- 41.5—Turn right.
- 42.6—Turn right.
- 43.7—Turn left.
- 46.0—Cross R. R.—straight ahead on Cass Ave.
- 46.7—Turn left on N. Gratiot.
- 46.8—Mt. Clemens—Court House—south on Gratiot Ave. with trolley.
- 54.9—Roseville.
- 61.3—Cross R. R.
- 63.8—Turn left on Boulevard.
- 65.8—Turn right on Jefferson.
- 68.3—Turn right on Woodward.
- 68.7—Detroit—City Hall.

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Taking Your Car Into Canada

Under all circumstances an Ontario license must be obtained before a car can be operated in Ontario. The expense of an Ontario license with two tags is \$4.00. These licenses can be obtained at the Windsor dock.

Before crossing on the ferry, obtain from the U. S. Customs office a Certificate of Exportation which permits of re-entry into the United States within six months with no formalities other than presentation of this certificate at the U. S. Customs office at port of issue.

If this certificate is not obtained, it will be necessary for the car owner to go before the American Consul at Windsor and take out a consular invoice, involving considerable delay.

The expense of taking a car into Ontario is as follows:

Filing bond and delivery permit..	\$5.00
Ontario motor vehicle license and tags	4.00
	\$9.00

In addition to the above the Canadian Custom laws require a deposit of \$10.00 which is returned to depositor upon cancellation of bond.

The documents and tags permit American motorists to cross the border at any port as frequently as desired for a period of six months after once having crossed at Windsor. In order that the bond may be cancelled it is necessary that exportation be shown on or before six months. The tourist may leave Canada at any point.

The U. S. Customs issue one-day permits without requiring a certificate of exportation.

American motorists can make all arrangements in advance for entering Canada, by communicating with any customs broker at Windsor, who will obtain all the documents and tags and have a representative meet the entering car at the Windsor dock. The names of these brokers can be obtained by phoning the Canadian Custom Office at Windsor.

Digest of Ontario Motor Laws

A "motor vehicle" shall include automobile, locomobile, motor bicycle and any other vehicle propelled by power other than muscular, except vehicles that run on rails.

Motor vehicles must be equipped with proper warning device, also with proper light in front, and rear light so placed as to illuminate number plate.

Every motor car must carry one license plate in front and rear, these plates to be kept clean and free from obstructions.

Searchlights on motor cars are forbidden.

Speed limits in cities, towns and villages not to exceed 15 miles per hour; on highways outside of cities, towns and villages, 20 miles per hour.

Careless driving within these limits, punishable.

No person under the age of 18 years and no intoxicated person shall drive a motor vehicle.

Motor cars must halt when overtaking street cars until passengers are aboard car or safely on curb.

Car and engine must be stopped, if rider or driver of frightened horse so

requests. Such assistance as is needed must be rendered rider or drivers of horses.

Unnecessary noise with horn or other signal, or muffler cut-out, prohibited.

Car and engine must be stopped when funeral is met or overtaken.

In case of accident, driver of motor vehicle must render all aid possible and furnish name and address to party or parties injured. Responsibility rests on owner of motor car.

Provincial Secretary has power to suspend or revoke licenses for misconduct or violations of laws.

Peace officers are required to take person arrested, before a Justice of the Peace, "with reasonable diligence."

Slower moving vehicles, when overtaken on the road, are required to turn out and give necessary room for overtaking vehicle to pass.

Complete copies of the Ontario Motor Vehicle Laws will be promptly forwarded, on request, by the Provincial Secretary's Department, Toronto, Ontario.

Detroit-Windsor Ferry

Ferry steamers of the Detroit, Belle Isle and Windsor Ferry Co., plying between Detroit and Windsor, run on the following schedule: First boat leaves foot of Ouellette avenue, Windsor, at 5:30 a. m. (Detroit time), and leaves foot of Woodward avenue, Detroit, at 5:45 a. m.; 6 a. m. to 10 p. m., boats run every 10 minutes; last boat leaves Windsor at 12:15 a. m., and leaves De-

troit at 12:30 a. m. On Sundays, the first boat leaves Windsor at 6:15 a. m., and leaves Detroit at 6:30 a. m.

Fares: For roadsters, 10 cents, including driver; for touring cars, 15 cents, including driver. Fare, per additional passenger, 5 cents. Company sells 10 tickets for 25 cents, good at any time, and 100 for \$1.50 (Workingmen's tickets), good at certain hours.

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American Plan
\$3.00 per day
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Just 142 miles
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and
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All rooms with running hot and cold water and 75 with bath
SPECIAL ATTENTION TO TOURISTS

Auto Trimming

TOPS

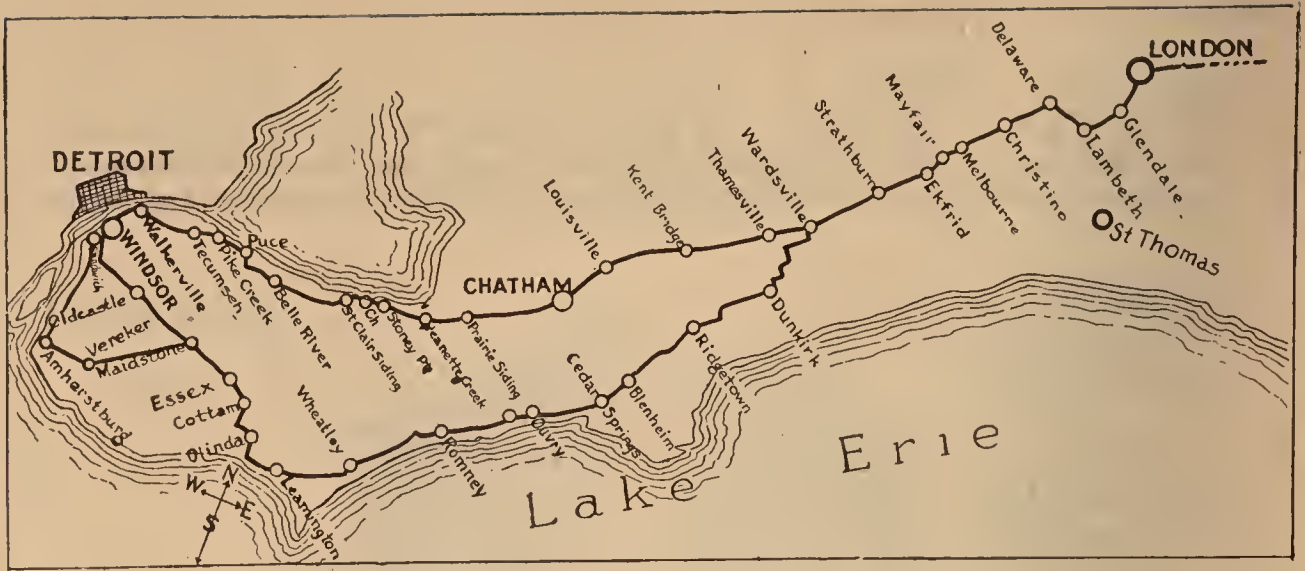
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RADIATOR COVERS

REPAIRING

G. R. HENDERSON

Corner Pierre and Wyandotte
Windsor, Ontario



Trip No. 12

Detroit to Buffalo

Through Ontario—294.3 miles. Via Windsor, London, Hamilton, Niagara Falls

(Tourists contemplating trips through Ontario will find a digest of Canadian laws and complete directories for getting through the Canadian and U. S Customs on page 68.)

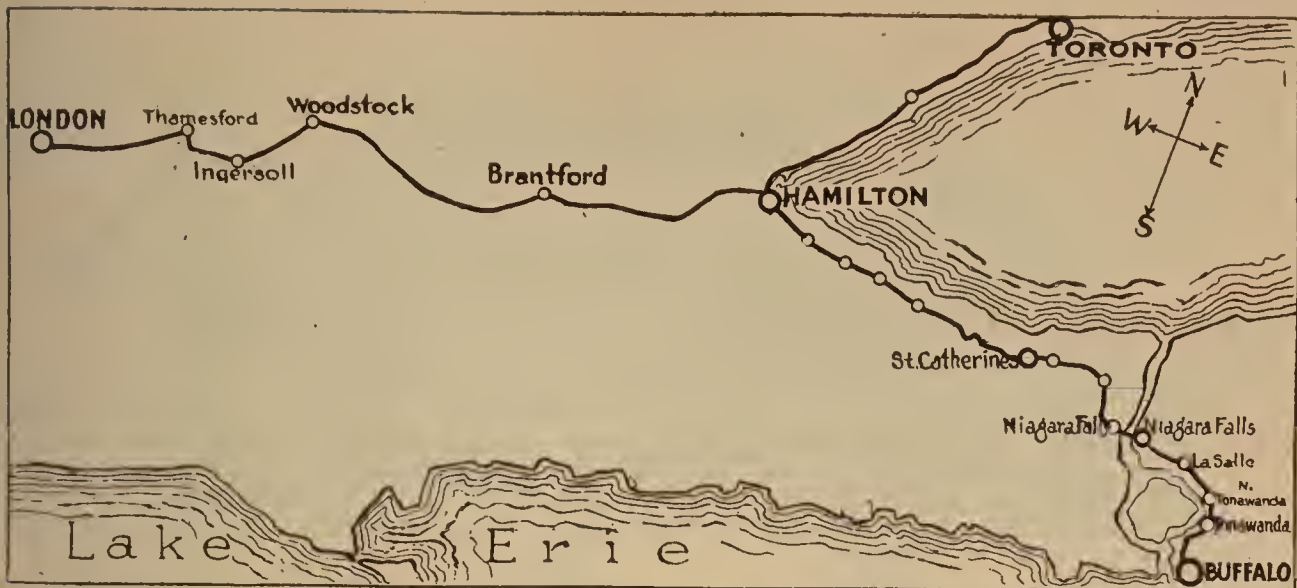
Cross on Ferry from foot of Woodward Ave. to Windsor, set speedometer at zero on Windsor dock.

- 0.0—Windsor—Ascend grade to first corner, turn left on Sandwich St.
- 0.4—Glengarry Ave.—turn right.
- 1.0—Bear right into Howard Ave—follow trolley.
- 2.8—Cross R. R.
- 4.2—Leave trolley at left—cross R. R.
- 5.2—Bear right—straight ahead.
- 6.8—Cross small bridge—turn left on crossroads just beyond.
- 8.8—Oldcastle Station—cross R. R.
- 12.5—Maidstone—Pick up trolley and follow across R. R.
- 16.8—Cross R. R.
- 17.1—Essex Center—Straight through.
- 23.0—Trolley bears right.
- 27.8—Olinda—Turn right.
- 28.4—Jog left and right.
- 29.8—Cross R. R.
- 30.0—Ruthven—Turn left.
- 32.5—Ford—follow left road.
- 33.8—Leamington—Straight through.
- 41.6—Weathley—Straight through.
- 45.7—Turn right with main road.
- 46.1—Turn left on main traveled road—Lake Erie at right—follow lake.
- 50.0—Danger—curve right.
- 50.2—Danger—curve right.
- 57.0—End of road—right, then left.
- 60.6—Curve right and left.
- 67.3—Keep on main traveled road to left. (Right fork to St. Thomas.)
- 68.2—Cross trolley.
- 71.6—Cross R. R.
- 72.4—Blenheim—Straight ahead.
- 73.6—Four corners—turn left at cemetery corner.
- 74.0—R. R. ahead—do not cross—turn right on main road with telegraph poles.

- 78.8—Jog left, then right into
- 82.2—Ridgetown—Straight through.
- 85.5—Turn left.
- 85.9—Cross 2 R. R's.—at first road turn right into
- 88.6—Highgate.
- 90.9—Four corners—turn left.
- 91.4—Turn right.
- 92.0—Turn left.
- 93.8—Turn right.
- 95.1—Turn left.
- 96.3—Turn right.
- 101.5—Turn left.
- 103.6—Cross bridge into
- 103.8—Wardsville.
- 109.9—Strathburn.
- 119.5—Cross R. R., follow telegraph poles, cross 2 bridges.
- 128.6—Delaware—Turn right at 3 corners and ascend grade.
- 133.8—Three corners—keep on road to left with telegraph line.
- 135.2—Lambeth—Pick up trolley and follow.
- 138.0—Keep to left.
- 140.4—Pick up trolley and follow.
- 140.9—Under viaduct—turn right into York st.

LONDON TO HAMILTON— 79.7 Miles

- 141.6—London—Tecumseh Hotel. Set speedometer at zero.
- 0.0—Tecumseh Hotel.
- 0.2—Turn right into Dundas st.
- 3.1—Cross R. R., leave trolley.
- 5.8—Crumlin—Straight ahead.
- 14.3—Thamesford—Turn right on main traveled road at road house beyond.
- 15.2—Straight ahead.
- 20.2—Turn right on Thames st. into
- 20.6—Ingersoll—Turn left at bank into Charles st., straight ahead through
- 25.2—Beachville—Straight ahead.
- 29.8—Cross R. R.



- 30.2—Woodstock—Straight ahead on Dundas st.
- 34.2—Fork—take road to right.
- 34.7—Pass under R. R., trolley and long bridge into
- 56.5—Brantford—Straight through.
- 69.5—Fork—keep to left on main traveled road.
- 72.8—Ancaster—Straight through.
- 79.7—Hamilton—King and James sts.

HAMILTON TO NIAGARA FALLS—49.5 Miles

- 0.0—Set speedometer at zero—go east on King st., crossing 2 R. R.'s, pick up trolley at 4.8, follow same.
- 6.7—Stoney Creek—Straight through.
- 12.4—Winona—Straight through.
- 16.9—Turn left.
- 17.2—Cross trolley—turn right into
- 17.4—Grimsby—Straight through—look out for speed traps—speed limit 20 miles to
- 22.3—Beamsville—Straight through with car line.
- 26.5—Leave trolley—straight ahead.
- 28.3—Jordan—Turn right on main road from center of village—straight ahead.
- 35.1—Cross Welland Canal bridge, entering
- 35.5—St. Catharines—on St. Paul st.—follow trolley to
- 36.0—Fork. Keep to right on main traveled road.
- 37.8—Cross bridge over Welland Canal.
- 38.8—Homer—Straight through.
- 38.9—Fork. Keep to road on right.
- 43.6—St. David's—Turn right at hotel on corner.
- 45.0—Turn left.
- 45.1—Turn right.
- 45.7—Stamford—Straight ahead.
- 46.6—Five roads come in—turn left on main traveled road.
- 47.3—Turn right on most traveled road.
- 47.8—At cemetery gate, turn left.
- 48.5—Cross R. R.—pick up trolley.
- 49.0—Turn into Clifton avenue.
- 49.4—Stone church, bear right on Gorge road into

NIAGARA FALLS TO BUFFALO—21.6 Miles

- 50.7—Niagara Falls, Ont.—International bridge. (See customs regulations.)

- 0.0—Niagara Falls, N. Y.—Set speedometer at zero at Falls and Main st., go east on Falls st.
- 0.2—Follow trolley through Erie ave. to Buffalo ave.
- 0.7—Cross bridge over canal.
- 1.6—Cross R. R.
- 3.1—Pass under R. R.
- 5.5—La Salle—Leave trolley—keep straight ahead—cross 2 R. R.'s.
- 8.8—Pass under trolley bridge.
- 10.0—Cross R. R.—straight ahead into Main st.
- 12.2—North Tonawanda.
- 12.0—Bear right over 2 bridges.
- 12.2—Tonawanda—Bear slightly left into Delaware ave., straight ahead.
- 16.6—Cross 2 R. R.'s; 17.4 under R. R.; 18.2 under bridge; 18.4 over stone bridge—Delaware Park—bear right just beyond.
- 18.6—Turn left on Delaware to
- 19.1—Gates Circle—bear right about half way around—straight ahead on Delaware ave.
- 21.6—Buffalo—Swan and Washington sts.

Trip No. 13 Buffalo to Detroit 294.2 Miles

- 0.0—Swan and Washington Sts., Buffalo.
- 2.5—Gates Circle—half way around—straight ahead on Delaware.
- 3.0—Turn right—straight ahead on Delaware.
- 3.2—Over stone bridge—bear left.
- 5.0—Cross 2 R. R.'s.
- 9.4—Tonawanda—Straight ahead on Delaware Ave.
- 9.6—Main St. begins—bear left over 3 iron bridges.

- 9.9—North Tonawanda—Straight ahead into Main St.
- 16.0—Cross iron bridge—turn left.
- 16.1—Cross 2 R. R.'s.
La Salle.
- 21.4—Buffalo Ave.—follow trolley on Erie Ave.—turn left.
- 21.6—Niagara Falls.

NIAGARA FALLS TO HAMILTON, ONT—49.5 Miles

- 0.0—Set speedometer at zero at Canadian side of international bridge—turn left at Clifton Hotel, up hill and over R. R.—turn right at Queen Victoria Fountain to
- 2.5—Overhead R. R. bridge.
- 2.8—Overhead R. R. bridge.
- 4.5—Turn left and then first turn right.
- 6.2—St. Davids—Turn left at fork—follow main road and telegraph poles.
- 11.7—Cross Welland Canal—follow trolley to center of town, turn left at Welland House—follow main road.
- 21.4—Jordan.
- 21.9—Cross R. R.
- 23.1—Pick up Hamilton trolley.
- 27.5—Beamsville—Straight on.
- 28.5—Cross trolley.
- 30.7—Cross R. R.
- 32.5—Grimsby—Cross bridge at west end of village, keep to left.
- 37.4—Winona—Straight on.
- 43.0—Stoney Creek—Straight on.
- 47.0—Fork—keep to right.
- 49.5—Hamilton—Center of city.

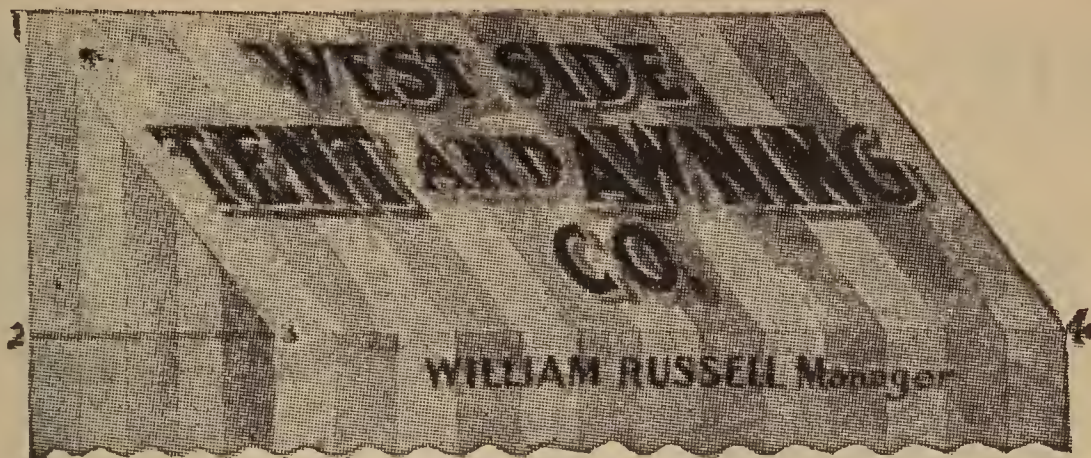
HAMILTON TO LONDON—79.7 Miles

- 0.0—Set speedometer at zero at King and James Sts.—proceed west on King St.
- 1.3—Bear left.
- 3.0—Cross trolley.
- 3.6—Fork—keep to left—cross R. R.—keep to right on main road at fork just beyond.
- 6.9—Ancaster—Straight on.
- 7.3—Cross trolley.
- 7.5—Fork—keep straight on.
- 11.1—Cross trolley.
- 12.7—Alberton.
- 13.0—Fork—keep to left on best road.
- 19.5—Cross trolley.
- 20.0—Cainsville.
- 23.1—Cross R. R.
- 23.2—Brantford—At monument on far side of city, go to left.
- 23.7—Cross R. R.—keep on right hand road.
- 24.1—Cross R. R.
- 33.3—Keep to right on main road.
- 37.5—Cathcart—Straight ahead.
- 49.6—Woodstock—Straight through.
- 50.5—Fork—bear left.
- 50.8—Cross R. R.—pick up and follow trolley.
- 59.1—Ingersoll—At Merchants Bank on corner of Thames and Charles, turn right on Thames—cross R.

- R. and cross bridge. At large church on corner turn left on London road (see road sign).
- 65.4—Thamesford—At roadhouse on corner turn left with traveled road, straight ahead to
- 79.7—London—Tecumseh Hotel, corner of Richmond and York Sts.

LONDON TO WINDSOR—141.6 Miles

- 0.0—Set speedometer at zero at Tecumseh Hotel—go west on York St., following trolley line across iron bridge.
- 0.8—Turn left on Wharncliff road.
- 1.3—Straight ahead.
- 2.2—Pick up trolley.
- 3.2—Go to right through Crossroads.
- 6.4—Lambeth—Straight on with telegraph wires.
- 7.8—Three corners—turn left.
- 13.0—Delaware.
- 22.1—Cross R. R.
- 37.1—Strathburn—Straight through.
- 37.8—Wardsville.
- 40.1—Turn right.
- 45.2—Village—turn left.
- 46.4—Turn right.
- 47.7—Turn left.
- 49.5—Turn right.
- 50.1—Turn left.
- 50.6—Turn right.
- 52.9—Highgate.
- 52.9—High gate.
- 55.6—Turn left.
- 56.0—Turn right.
- 59.3—Ridgetown—Jog right and left—straight ahead with telegraph poles—do not cross R. R.
- 67.5—Straight ahead—turn right around cemetery—do not continue straight ahead as this is the road to St. Thomas.
- 69.1—Blenheim.
- 69.9—Cross R. R.
- 73.3—Cross trolley.
- 74.2—Keep to right road.
- 80.9—Curve right, then left.
- 84.5—Right, then left.
- 91.3—Curve left.
- 91.5—Curve right—follow along Lake Erie shore.
- 95.4—Turn right.
- 95.8—Turn left with main traveled road.
- 99.9—Weathley—Straight on.
- 107.7—Leamington—Straight on.
- 108.1—Cross R. R.
- 109.0—Bend right.
- 111.5—Ruthven—Cross R. R.
- 113.1—Jog left and right on main traveled road—turn left at
- 113.7—Blacksmith shop.
- 118.5—Olinda—Pick up and follow trolley.
- 124.4—Essex Center.
- 124.7—Cross R. R.'s leaving trolley.
- 129.0—Maidstone.
- 132.7—Old Castle—Turn right at crossroads.
- 136.3—Bear left.
- 137.3—Cross R. R.'s—pick up trolley and follow.
- 140.5—Five streets come together—turn left.
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- 141.6—Detroit Ferry.



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The 1914 schedule of free band concerts in the city parks by Schwenzer's band is as follows:

Mondays—Belle Isle at 2:30 and 7:30 p. m.

Tuesdays—Palmer Park at 2:30 p. m.;
Clark Park at 7:30 p. m.

Wednesdays—Belle Isle at 2:30 and
7:30 p. m.

Thursdays—Clark Park at 2:30 p. m.;
Belle Isle at 7:30 p. m.

Fridays—Cass Park at 2:30 p. m.;
Belle Isle at 7:30 p. m.

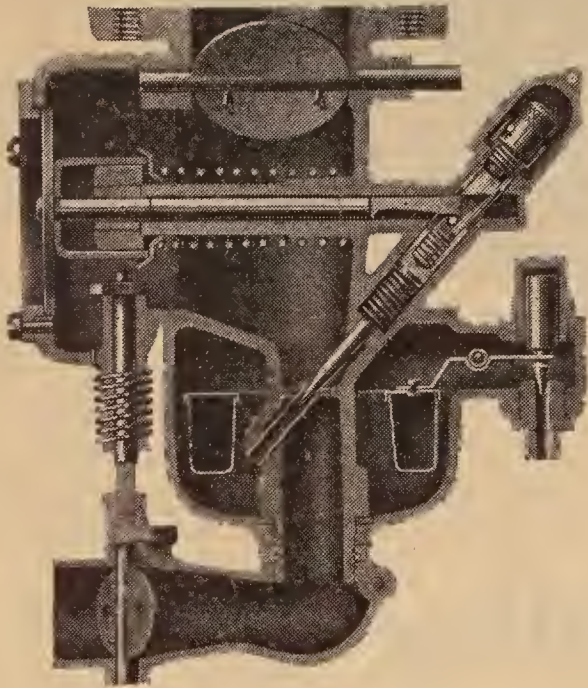
Saturdays—Belle Isle at 2:30 p. m.;
Clark Park at 7:30 p. m.

July 4 and Labor Day—Belle Isle at
2:30 and 7:30 p. m.

Sundays—At Belle Isle at 2:30 p. m.
June 7, 21, July 5, 19, August 2, 16,
30, September 13.

At Clark Park at 2:30 p. m. June 14,
28, July 12, 16, August 9, 23, Sep-
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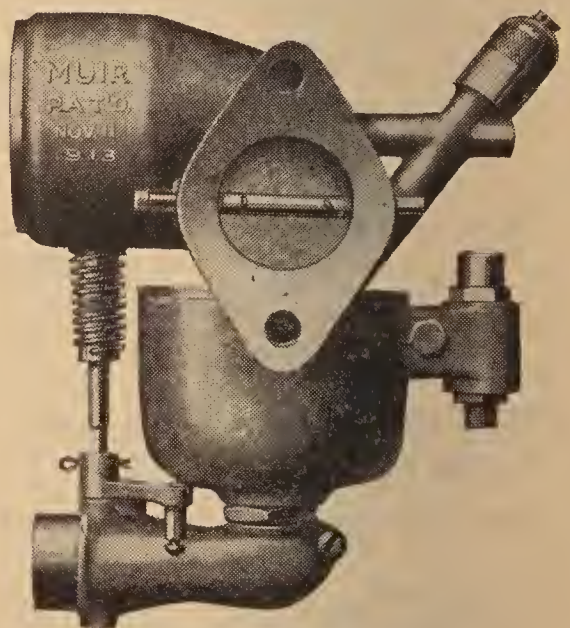
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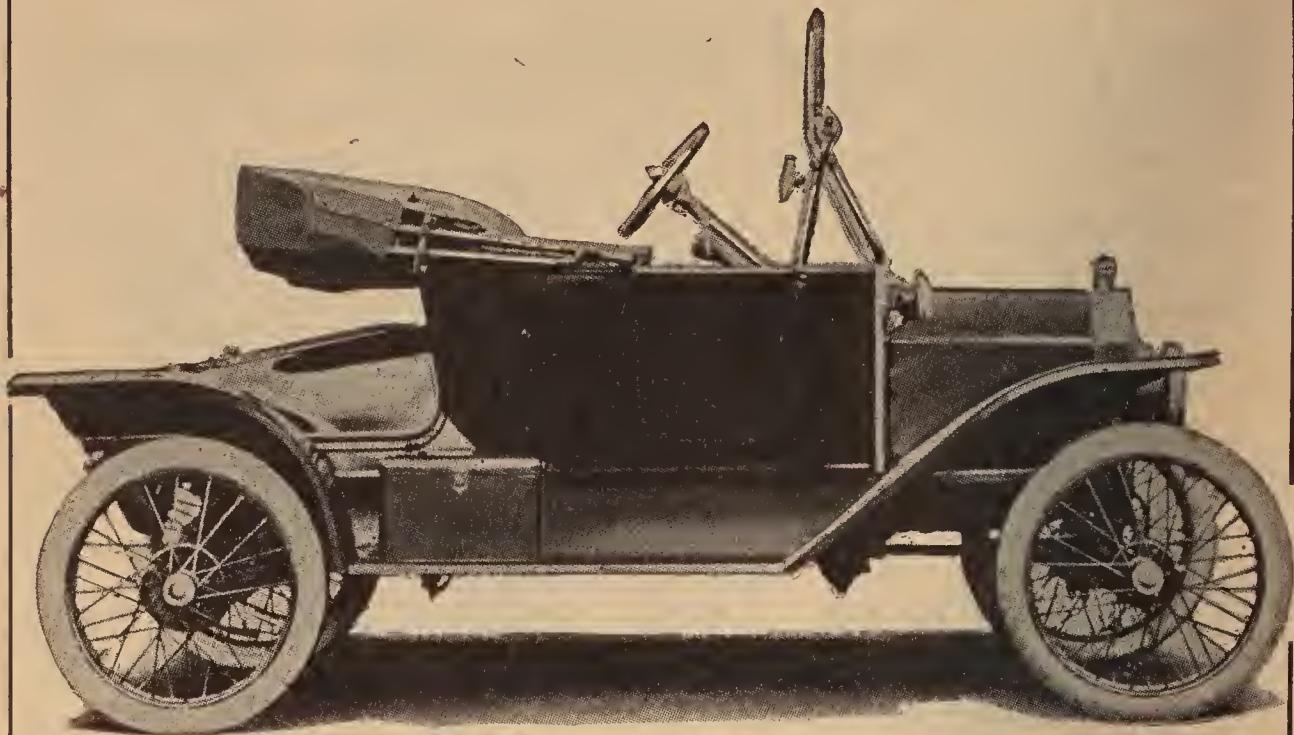
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Universal Wire Wheels will give you more pride and satisfaction in your car. They improve the appearance wonderfully and the riding qualities even more wonderfully.

We furnish them either 30 x 3 $\frac{1}{2}$ rear and 30 x 3 front, or 30 x 3 $\frac{1}{2}$ all around or 30 x 3 all around. Made of the very finest materials and workmanship, finished in black enamel, Japanned, with nickel-plated hub caps, swaged spokes, tangent laced and crossed, like the foreign wheels.

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Carburetor Suggestions

Gasoline Leaks—An occasional inspection of the gasoline tank is advised as the continual jarring is likely to loosen the seams or the feed pipe connections. Tanks of some of the cheaper were formerly made of galvanized iron, and the water invariably taken in with gasoline settled on the bottom of the tank and soon rusted it. Such tanks should be at once discarded and a tank of heavy gauge copper substituted. If leakages occur in the feed pipe connections either at the tank or carburetor, the pipe should be disconnected and the bearing surfaces smoothed.

Repairing a Pipe Leak—A broken or leaking pipe can be temporarily repaired with a section of rubber pipe, which should be a part of every car equipment. Where rubber pipe is not available, a handkerchief can be torn into strips, the strips well soaked and then wrapped around the ends of the broken pipe, and adhesive tape wrapped over the strings.

Repairing Carburetor Floats—A constant dripping of gasoline from the carburetor may be due to a "waterlogged" float. If a cork float is used, the shellac coating has probably been rubbed off and the gasoline has soaked into the cork. The float should be thoroughly dried out, and several coats of shellac applied. Where a hollow metal float is used, the presence of gasoline within can be detected by taking the float out and shaking it. If the hole is very minute, the float can be heated so that the liquid within will be vaporized, and the location of the leak will be easily found with a lighted match. An awl can be used to enlarge the opening to permit the liquid to escape, and the float soldered.

Valve Seat Imperfect—Another cause of flooding is found occasionally in an imperfectly seated needle valve. The valve can often be ground into the seat dry, or a small quantity of whiting can be used.

Weak Flow of Gasoline—This may be caused by an accumulation of dirt over the wire gauze filter, either at the tank or in the carburetor, or by air bubbles forming on the bottom of the tank through excessive vibration. The gasoline filters on most cars are easily accessible and should be inspected occasionally. Once in a while a feed pipe will become clogged with bits of metal, dirt, etc., which get in below the screen. In such cases, the pipe should be taken off and blown out with a tire pump or attached to a faucet and a heavy stream of water forced through.

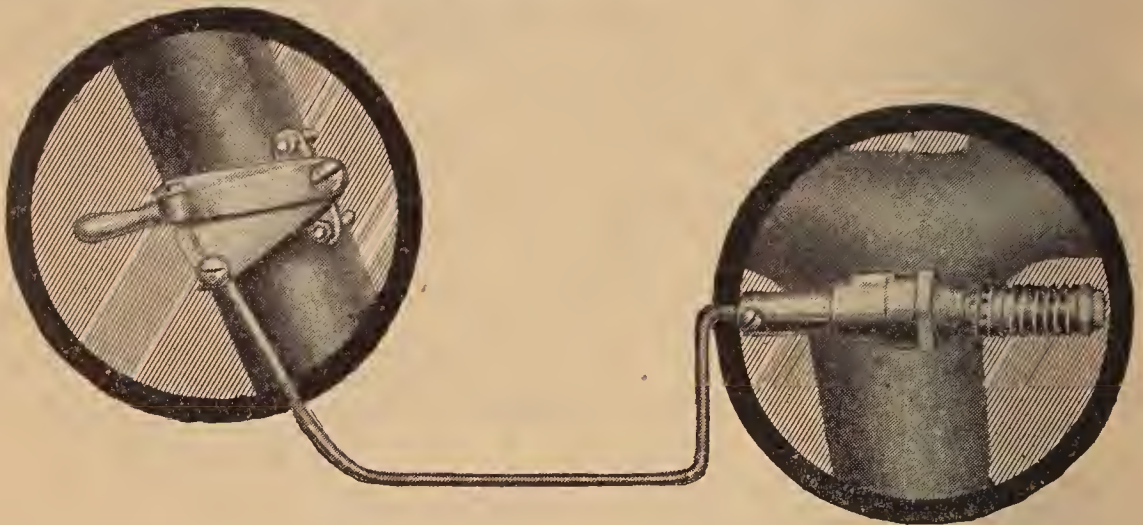
Carburetor Freezing—In extremely cold weather the water in gasoline, settling to the bottom of the carburetor, will freeze and interfere with the action of the float. Water is often formed over the air intake screen and, freezing, blocks the introduction of air. A cloth wrapped around the carburetor and saturated with hot water will make short work of the ice.

Motor Trades Directory, Etc.

Attorneys		Peninsular Garage	37
Geo. A. Giff.....	27	Vinewood Serviceable Garage.....	75
Automobile Laundry		W. Parent	7
Automobile Laundry	12	W. P. Hammond Co.....	16
Auto Coats		Gasoline Savers	
Hugh Wallace & Co.....	45	F. E. Tallmadge & Son.....	32
Auto Locks		The Crary Co.....	80
Headlight Support Co.....	39	Wiard Automatic Air Valve Co.....	33
Auto Painting		Hand Soap	
Beaufait Painting Co.....	51	Duz-It Chemical Co.....	33
Grand Auto Painting.....	43	Hotels	
Auto Parts		Tecumseh Hotel, London, Ont.....	69
Puritan Machine Co.....	25	Insurance	
Auto Signals		American Automobile Insurance Co.Back Cover	
House & Faust.....	42	Delbert C. James Co.....	44
Auto Supplies		Detroit Insurance Agency.....	39
Detroit Artificial Leather Co.....	59	Martin J. Doyle.....	27
Jos. P. Bertsche.....	65	Motor Cars	
Manufacturers' Rubber & Supply Co.	6	Anderson Electric Car Co.....	14
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General Sales Co.....	49	Radiators	
Body Builders		Detroit Radiator & Specialty Co.....	81
Stefan Zlotecki	59	Candler Radiator Co.....	47
Cigars	Inside Back Cover	
La Azora		Restaurants	
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Carburetors		Log Cabin Inn.....	51
The Muir Co.....	74	Mandarin Inn	15
Demountable Wheels & Rims		Shock Absorbers	
Detroit Demountable Rim Co.....	57	Bresler-Wallace Sale Co.....	32
Modern Garage	29	Tailors	
Enameling and Japanning		Dieterle	58
Eureka Japanning Co.....	77	Jarvis S. Jennings.....	75
Melvic Enameling Co.....	25	Tents and Awnings	
Garages, Repairing, Etc.		West Side Tent & Awning Co.....	73
Addison Garage	21	Tires and Tire Repairs	
Allen Machine & Tool Works.....	27	Guarantee Tire & Repair Co.....	63
Cass Park Garage.....	67	H. & H. Tire Sales Co.....	17
City Taxi Garage.....	7	Republic Rubber Co.....	5
Dolenga Auto Co.....	78	Superior Tire Repair Co.....	55
E. L. Burnett.....	63	Voss Tire & Repair Co.....	75
Eliot Garage	43	Welding	
Frank Cogan	75	Detroit Welding Co.....	73
Geo. W. Decker.....	77	Detroit Welding Specialty Co.....	67
Howard Motor & Mfg. Co.....	75	Windshield Repairs	
Irvine & Ready.....	55	American Art Glass Co.....	77
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Parisian Garage	61	Detroit Universal Wire Wheel Co....	76

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It supplies auxiliary air, reducing the suction at the gasoline jet of your carburetor, giving your motor more air and less gasoline without touching your carburetor adjustment.

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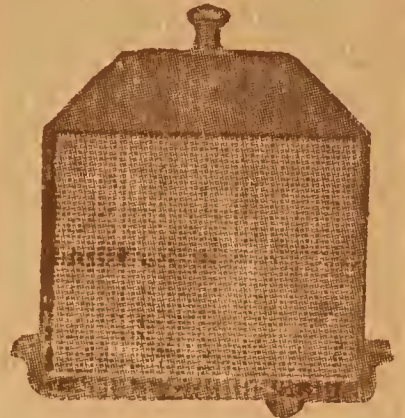
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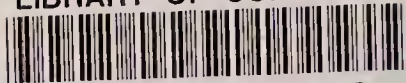
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