

SAN FRANCISCO HAVE GREAT SHOW

Mammoth California Event Is
Looked Forward To.

OPENS ON FEBRUARY 19

Over 60 Makes of Cars and Over
40 Kinds of Trucks Will
Be on Display.

SAN FRANCISCO, Feb. 12.—San Francisco is preparing again to capture national honors for its great automobile show—and this year it looks as if the recognition is nearer than ever before.

The eyes of the automobile trade are already centered on the coming show and on February 19, when the fifth annual Pacific show is in full swing, practically all of the big men in the national trade circles or their personal representatives will be on hand for the event.

Already the leading hotels of the city declare that reservations are pouring in for show week and it is prophesied that the show this year will draw more people than any event outside of the national convention that the city has staged for the last year.

Thousands Are Interested.

The importance of the automobile industry is best realized by those who have made a careful study of the situation and who know actually how many men are actively connected with the giant industry. An auto show of the importance of the coming San Francisco event affects all of these men vitally and hundreds of them will be on hand for the business that the show brings.

The size and importance of the show this year is greater than ever before. Forty-eight distributors will exhibit over 60 makes of automobiles. And for each automobile at the show there is a network of dealer organizations spread throughout California that is vitally interested in the new features and refinements of cars which will be on display.

Track Displays Promising.

Then the trucks will also draw their quota of men. Forty makes of power wagons will be on display. Thousands of farmers throughout the northern part of the state will have their annual opportunity to see and compare the various makes of trucks and to really find out at first hand which makes serve their purposes best. The show offers an opportunity that they will not have for another year and hundreds will take advantage of the chance. Two days at show time will accomplish the same results as two weeks at any other time of the year.

The accessories, too, will draw the motorists as well as the out-of-town dealers will find much of interest in the big accessory display which will be a feature of the coming exposition.

Automobile men look not only for the largest attendance, but also for the largest out-of-town dealer crowds that the local exhibition has ever drawn.

Among the new makes of cars that will make their premier bow at the show are: The La Fayette, the Fiat, the Lincoln, the Sheridan, the Gardner, the Ferris, the Wilbur, the Quaker, the mobile Four and the Jackson Six. The increasing number of makes of cars on display at the show this year is evidence of two things: First, the increasing number of automobiles which are finding a reception in the west, and secondly, the growing prosperity and importance of the automobile industry.

WEEKLY AUTO QUIZ

THIS department is designed to aid motorists by asking and then answering practical questions relative to motor car operation. Questions, prepared by experts, are asked one week and answered the next.

Using Engine as Brake.

1. No harm will be done the engine if it is used as a brake on hills, providing that this is done at the beginning of the hill or, if not used at the beginning it is first engaged on equivalent to car speed before clutch is engaged. If this is allowed to go down a hill independent of the engine as in coasting and when the bottom is reached if gears were engaged and clutch let in without first speeding up the engine, the result would be a very sudden slackening of car speed and the strain in breaking this speed would all be taken by the driving system. This has been the result of wrenching the clutch, universal, transmission or differential out of alignment or the breaking of some member of the drive system. When you have reached the bottom of the hill before letting in the clutch start your engine and speed it up to car speed.

Choice of Spark Plugs.

2. A good grade of spark plug should always be used in the automobile engine to insure against leak of compression or current as frequently happens in a poor plug. After a period of use a cheap spark plug insulation becomes porous causing a weak spark, and leak compression at the points where it is put together. The result is poor acceleration, and missing on high speed in heavy pulling.

Car Stops, Engine Running.

3. If your car stops on the road unintentionally on the driver's part but the engine continues running, first look beneath your front floor board at the clutch or transmission as it is probable that the clutch in some way become loosened or disengaged or the gears have been disengaged cutting off power to the rear wheel. It could be possible that the drive shaft or one of the universals has been broken or that gears of the transmission or differential are stripped. This, however, would not happen without more or less noise resulting which would of course be noticeable.

Exhaust Valve Timing.

4. It is necessary for an exhaust valve to open early, or before the piston reaches end of power stroke, to insure the complete passing out of burned gases, as the gases exert considerable pressure and require more time to insure their complete expulsion from the cylinder than would be given if the valve opened at the end of or after power stroke.

Vegetable Oils for Motors.

5. Animal oils or greases or those of a vegetable source should not be used in the automobile because they contain acid which eats into the surface of the bearings or any friction surface in the car, roughening it and leaving rust deposit and increasing

friction and wear. Also this kind of oil or grease becomes rancid and oxidizes and gums the bearings.

Cause of Sand Blister.

6. The real cause of a sand blister in a tire casing is a cut which goes through the tread rubber of the tire but only as far as the fabric or cord underneath the tread. If the cut is neglected and left open, sand, gravel and water will work into it and will gradually spread between fabric and tread, forming in a lump.

Burning Out Fuses.

7. Frequent burning out of fuses in the electric system is caused by a short circuit somewhere in the wiring. It may be in the lamp socket and the lamp itself or loose wires leading to the socket which are in contact with some metal part of the car.

Cause of Slipping Clutch.

8. The clutch of the dry-cone type will slip even if the friction surfaces are not oily if the leather facing of the cone is worn, glazed or burned. Slipping is the result of a smooth hard surface of this leather which should be renewed.

Noise in Rear Axle.

9. Noise in the rear axle may be caused by several different things. The construction of some differentials naturally produces a humming sound. This is not harmful. But if a harsh, grating noise is produced, or in a case of some cars if there is any noise at all, there is a defect in the system which should be remedied. Some causes are lack of oil, use of the wrong grade or a poor grade of oil, gears out of alignment, chipped, burred or broken teeth, or if the car is old, the gears are undoubtedly worn, resulting in noise.

Where to Locate Rattle.

10. Play in the steering gear causes rattle and movement which can be felt by the driver when going over cobblestones or other rough roads. This is usually due to worn connections somewhere in the steering apparatus, such as at steering knuckles, clevis joints of the tie bar steering arm or is due to loose adjustment of reduction gears at the end of the steering column. Some times the bearings in the front wheels are loose, causing vibration and rattle. This latter is only noticeable to the driver when the car is traveling rough roads.

This Week's Questions.

1. What causes a car to jump or run in jerks?
2. Why is heavy oil or grease used to lubricate slow speed bearings, transmissions and differential gears, and oil of light weight used for bearings which fit tightly, carry loads or revolve at high speed?
3. What does the term high tension mean?
4. How much current does a pair of headlights draw and what is the current supply used by the electric starter in cranking an engine?
5. What is carburetion?
6. What is two-point ignition?
7. What are some points to observe in taking care of the electric system of your car?
8. Would a forced circulating system of cooling an engine cause improper cooling and the resulting overheating of the engine if the pump which circulates the water should be stopped or broken?
9. How could a slipping clutch of the type which does not turn in oil be treated temporarily so that it will not slip?
10. Does the exhaust valve of an automobile engine remain closed during the entire length of power stroke of a piston?

ENJOY CROSS-COUNTRY TRIP

Bad Roads Forgotten in Pleasure of Long Auto Journey.

Exit the joy-killing and crepe-hanging long-distance motorist.

From Los Angeles comes a report of a car owner who has just completed a 2,000-mile drive from Greensburg, Kan., to Los Angeles, over the Santa Fe trail, and declares he enjoyed every minute of the journey. E. R. Smith is the gentleman, a business man of Greensburg.

In describing his trip he refrained from the usual exhortation of the Rocky mountain roads and the rutted desert trails, and stated that his Hudson and its Goodyear cord tires surmounted all difficulties, allowing the party of four persons to make the jaunt with absolute comfort and pleasure, despite the winter season.

The tourists carried a camp outfit and tasted of the pleasure of camping out en route. Gasoline mileage averaged 15 to the gallon, and although the tires had already run 13,000 miles, no tire trouble of any kind was experienced.

Conserving Chains.

It is a very good plan to shift the cross-links of the tire chains from time to time. That is move them so that they do not depend on the same link of the main chain all the time. The wear and tear on the tire chain centers at the links to which the cross chains are attached, and for this reason moving these latter from time to time spreads the wear.

EXPERIENCED TRUCK MAN JOINS SALES FORCE FOR G. M. C. HERE.

Wentworth & Irwin, Inc., distributors of G. M. C. trucks in Oregon, have announced the addition to their truck sales force of L. Littlepage, a highly experienced man in the truck field.

Mr. Littlepage has spent over ten years as truck mechanic and salesman, this experience including five months as instructor on G. M. C. trucks in the aviation mechanic school of the United States air service established at St. Paul during the war. He was later transferred to Ebert's flying field, Lanoka, Ark., where he had charge of all truck equipment. Upon his discharge from the army Mr. Littlepage accepted a position as superintendent in charge of equipment for a local concern which operates one of the largest fleets of trucks in the state.

Wheel Inspection Advised.

One of the most frequent causes of excessive tire wear is faulty alignment of the front wheels, which causes them to scrape the tire along the road surface at each revolution. Whenever excessive tire wear develops the wheels should be inspected

for misalignment, and if the car owner is not familiar with the method used in aligning he should have the service station do the job. Front wheels are always cambered and gathered; that is, they "toe-in" in front, making the distance from wheel to wheel in front less than that in the rear. At the same time

the distance between the points of contact with the road is less than the distance between opposite points. These distances vary with the different makes of cars, but usually the latter makes 3 per cent of the tire diameter. Thus, with 34-inch tire the wheel will be gathered about one inch. However, the car owner who

proposes aligning his wheels should get the exact figure from the manufacturer or from the service station.

Slipping on Grades Prevented.

Eighteen pointed spikes, mounted on a circular frame, constitute a new anti-skid attachment for motor truck

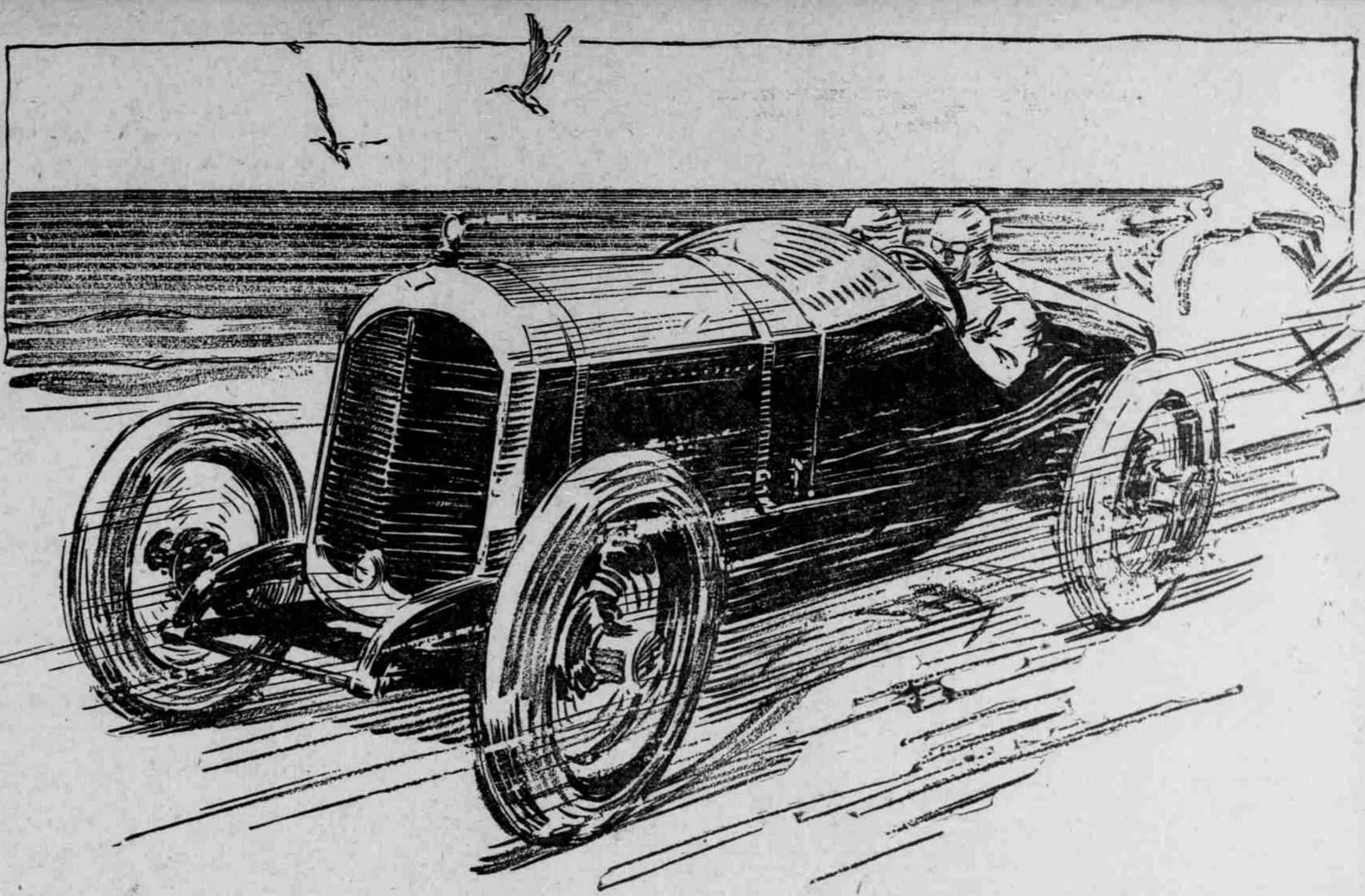
wheels and to help them to climb grades on icy roadways.

To Cut Battery Separators.

It is possible to cut the little wooden separators used in the storage battery by means of one of the trimming boards that almost any office has. This board comprises a knife with a

handle, the forward end of the knife being riveted to the board, so that it can be lifted and lowered. Absolute accuracy can be achieved in cutting the thin slivers of board with this device.

Motor trucks are now designed and constructed for every line of business.



PAIGE

THE MOST BEAUTIFUL CAR IN AMERICA

The Fastest Stock Car in the World

On January 21st the Paige Daytona Model 6-66 broke every stock car record for speed when it covered a measured mile in 35.01 seconds—a pace of 102.8 miles per hour.

This marvelous feat was accomplished on the sand beach at Daytona, Florida and both the time and chassis checking are officially attested by the Contest Board of the American Automobile Association.

Today, therefore, Paige stands as the unquestioned stock car champion of the world. And, what is even more, the entire line of Paige 6-66 Models is revealed as the most important automotive development of the age.

Henceforth these cars must be recognized by the entire world as Speed Masters of the highway. There need never be humiliating dust for the 6-66 owner because he will drive with the serene confidence of the true champion—and his horn blast will be more than an idle boast.

If you would be convinced, take just one demonstration in a Paige 6-66 Model and judge it from the standpoints of power, speed, acceleration, spring suspension and general motor efficiency.

Get the facts—actual lapsed time of the tests—and make a record on the demonstration card furnished by our dealer.

Then, take a second demonstration in any other car—at any price—and compare the results. That is all we ask and it is all that any good sportsman could possibly desire.

And remember, please, when you ride in the 6-66 you are riding behind an exclusive Motor—a six cylinder power plant that you will find in the Paige and no other car in the world.

We repeat, take just one demonstration—and draw your own conclusions.

PAIGE-DETROIT MOTOR CAR COMPANY, DETROIT, Michigan

Manufacturers of Paige Motor Cars and Motor Trucks

COOK & GILL CO., Inc.

DISTRIBUTORS

Eleventh at Burnside Street—Portland, Or.



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