

AUTO HORNS HAVE CHANGED

Old Style Was a Mild Request to Look Out

LATEST ROAR DISCORDANTLY

First Was a Reed Horn and Came from France and Was Followed by the Electric Bell and the Siren.

The first auto signal horn used to murmur "Please look out" in a mellow, musical tone.

The latest roar discordantly or brazenly. Their warning is far-flung, convincing, and says plainer than shouted words: "Get out of the way!"

The signal horn industry has advanced step by step with the building of cars. Without devices of the present sort, automobile would not have progressed nearly so rapidly.

The first auto signal horn came from France and was a reed horn. The first French machines that were brought to America were equipped with it.

Along with the old reed horn it is old by comparison now, though but three years away came the electric bell and the shaft-driven siren.

Much scientific study and investigation has been put into making just the proper sort of warning sounds.

And decisive and should mean to every one "Automobile!" Then mechanism had to be devised to make that noise carry a long way. Then a third factor appeared for the successful signal horn—it must be simple and easy of operation and unfailing.

With the constant improvement and development of the motor car and its accessories in every conceivable direction, it was a certainty that ideal signal horns would sooner or later come.

One of the American horns had been perfected and a foreign sale was wanted for it. The manufacturers had an agent in the French capital, and they sent a preliminary supply over to him.

The French couple, who had plenty of time just then, were curious. "Something about the new device attracted them."

"Let's hear it," they said. To their minds, here was a chance for an interesting diversion. Unwillingly the dealer brought out an eight-volt battery—what the agent said he wanted—and the new horn was connected on.

Early Conditions in Automobile World Contrasted With Those of Today

Then, The speed of a mile in three minutes was considered fairly good.

Mixing valves were used instead of carburetors, and they had a tendency to drip constantly. The weather affected this device considerably.

The radiator consisted of a copper tank placed in the side of the body, with hoses running lengthwise for the air to pass through and cool the water.

Chain drive was the only form. Starting handles were frequently carried loose and were almost as frequently lost.

The "hit-and-miss" method of low-tension ignition was employed. Quite a good name; it would "miss" about as often as it would "hit."

Noise and rattle was characteristic. In fact, it was not necessary to have horns and bells. People knew you were coming long before you arrived.

Every machine fought shy of all hills.

Now, The speed of one mile in—seconds is the record. Almost any car can make forty miles per hour.

The direct or bevel drive has almost completely replaced the chain drive. We are now quite accustomed to the appearance of a starting handle carried in front of the car.

All valves are now cam-actuated, so that the period of opening is constant. Mechanically operated valves eliminate the difficulty of sticking.

The high tension and particularly the magneto have not only brought a simplicity and certainty in the firing, but very little space is required.

Wheel steering is now used with exception of a few slow-speed electric machines. Quiet running is a leading feature.

Nearly every doctor owns automobiles now and very few have horses at all. The livery stables are fast going out of business.

It is easy for modern cars to climb all hills. Some drivers spend the evening long for hills which they cannot climb, but do not find any.

Auto Has Undergone Great Development

Has Been Improved in Quality by Process of Elimination and Engine Advance.

"The advent of the automobile was made possible only by the development of gas engines of extreme lightness. An automobile engine usually weighs fifteen to eighteen pounds a horse power, as compared with about 330 pounds a horse power in the old stationary types of gas engines."

"The trend of present-day automobile engine design is toward the long stroke, quietness and higher efficiency. The modern long-stroke tendency started largely on account of the wonderful speeds attained by cars with long-stroke motors in the European four-wheel races."

"During the last five years the automobile has undergone great development. It has been improved in quality and cheapened by the natural method of elimination of the more unfit constructions. This process is still going on, but at a slower pace than formerly."

"The motor has been quieted by attention to the valve-operating mechanism, to the carburetor and to the exhaust line. It has been given remarkable flexibility by improvements principally in the carburetor and valve setting, and the magneto has come into its own as the most reliable source of ignition current."

"Driving Period Lengthened. The Indianapolis motor speedway management has obtained advance permission to notify drivers entered in the 500-mile International sweepstakes race over that course, May 30, that they will be permitted to take their cars all the way through the long grind if they are in satisfactory physical condition and pass the examination of the representatives of the American Automobile association control board."

"Pneumonia Follows a Cold. But never follows the use of Foley's Honey and Tar, which checks the cough and expels the cold. M. Stockwell, Hannibal, Mo., says: 'It beats all the remedies I ever used. I contracted a bad cold and cough and was threatened with pneumonia. One bottle of Foley's Honey and Tar completely cured me.' No opiates, just a reliable household medicine. Sold by all druggists."

Get Expert Advice on Motor Wagons

Buyers Often Secure a Much Larger Truck Than is Needed for Their Business.

There are so many questions that arise when it comes to considering the use of motor wagons in any line of business that the safest course is to get the advice of men who have made a special study of the application of the power vehicle to various lines of manufacture and wholesale and retail trade.

"When riding behind the powerful engine of the automobile, few people appreciate the harmony of the infinite number of working parts which afford to them the delightful pleasure of annihilating speed and distance," said Dick Stewart last week.

"The carburetor system will rarely give trouble except in case of foul or dirty gas lines. To overcome a delay from this source one needs only to clean out the carburetor or clean out the pipe line, without necessarily changing the carburetor adjustment. If it should become necessary to remove the needle valve or any other parts, a careful note as to their proper replacement should be made."

"With the modern lubricating system, trouble seldom arises. As a proper engine lubrication is a most vital feature of construction, manufacturers have designed this as fool proof as possible, the only caution being to keep the oil tank properly filled and observe the proper flow through the gauges."

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AUTOS WILL NOT BE CHEAPER

Manufacturers Prefer to Improve Their Products and Uphold Prices.

A few weeks ago a canvass was made among Detroit manufacturers with the idea of getting expert opinions as to the future course of automobile prices.

Most of all, a buyer wants reliability and service, regardless of whether he spends \$500 or \$5,000 in the purchase of his car. It is truly remarkable that even at the lowest prices charged by some of the American manufacturers so great value can be had, and that in any standard make—possibly this should be qualified by saying any standard make which has been on the market for one season or more—a buyer can obtain good value and his money's worth.

The key to the situation—See Want Ads.

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Do You Realize the Effect of a Split-Base Rim?

Because water and rust ruin the casing and tube, the Firestone Demountable Rim is made with an unbroken base. Experience shows that rims which separate into halves, or split across the base, let water into the tire. The Firestone rim is designed from the standpoint of the tire maker. It saves tires as well as time and effort in changing them. We avoid show-room display propositions in favor of results in actual service.

Firestone

Quick Detachable Demountable Rims To carry your spare tires inflated, ready for instant change.



The base of this rim is not split, either across the rim or around it.

NOTE THIS: Firestone tires like Firestone Demountable Rims are designed and manufactured by exclusive tire makers, men who have studied and weighed every phase of tire service.

THAT'S HOW we came to originate the first and best heavy-rubber tire that prevents skidding without ruinous metal studs or wires—the famous Firestone Non-Skid.

THAT'S WHY each Firestone tire in its own field is the absolute leader in constructive detail and wearing quality—the product of expert specialization.

Specify Firestone tires and demountable rims on your new car. OMAHA DISTRIBUTORS: Central Tire & Rubber Co., 2127 Farnam St.

The Firestone Tire and Rubber Co., Akron, O. "America's largest exclusive tire and rim makers." Branches Agencies and dealers everywhere.

Advertisement for Jackson Annual Automobile Show, 140 Cars on Exhibition, Pioneer Implement Co., Council Bluffs, Iowa, 1000 Main St.

Advertisement for Stoddard-Dayton 50 11-F Touring Car, \$3000, featuring a large illustration of the car and detailed text about its features and price.

Advertisement for International Harvester Company, featuring a large illustration of a car and text promoting a \$1,500 offer and the company's products.