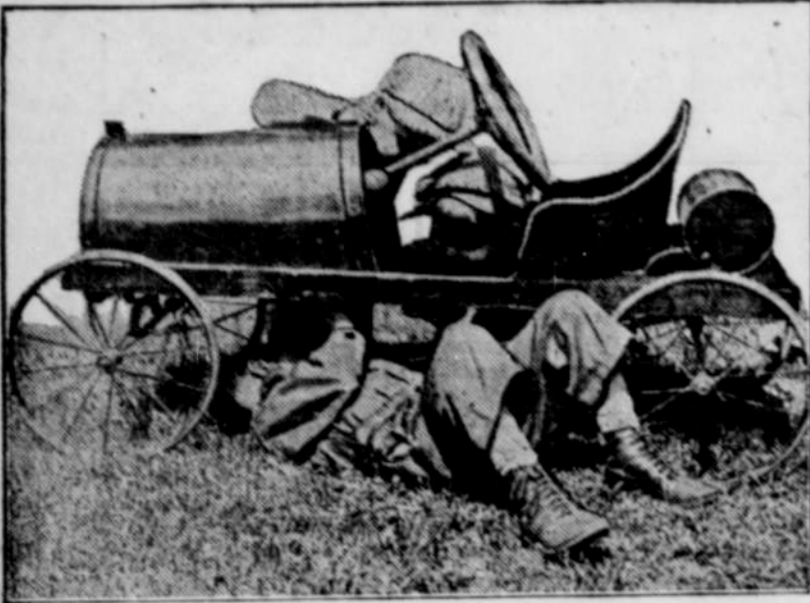


CHILDREN HAVE TROUBLE WITH CARS

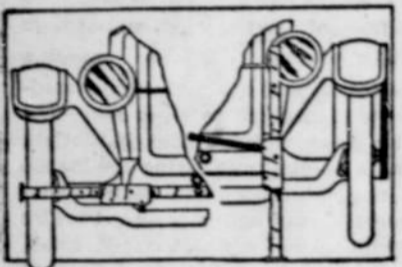


Even the children at play have trouble with their automobiles. The photograph shows Jack, the driver, and his two playmates trying to solve the disarrangement of machinery underneath his car.

AUTOMOBILE BUMPER USEFUL

Ingeniously Made to Act as Lifting Jack and Lock—Illustration Shows Plan.

An automobile bumper which does not differ greatly from the usual forms is ingeniously made to act, on occasion, as a lifting jack and a lock, by a Michigan inventor. The bumper is in two parts, which overlap in the center and are normally held by a bolt. Sep-



The Automobile Bumper, Half of Which is Shown at the Left, is Seen at the Right Used as a Jack.

arated and swung to a vertical position, they become jacks, actuated by a handle carried in the tool box. When the car is jacked up it may be locked in that position.—Popular Mechanics Magazine.

FILING INTO SKIN SURFACE

If New File is Used It is Liable to Be Ruined—Old One Answers the Purpose.

Frequently it is necessary for the car owner who does his own repair work to file a piece of cast iron that has been subjected to friction and so has acquired a glaze or skin. The best way to get through this skin is to use the edge of an old file. If a new file is used on this sort of surface it is likely to be ruined.

AUTOMOBILE GOSSIP

A satisfactory temporary repair of a leaking water pipe may be made by binding around the seat of trouble several layers of string well soaked in thick oil.

When did you use your spare tire last? If it's been a long time, take it off the back end of your car and give it some service. Too much rest is harmful to it.

Where castellated nuts and cotter pins are not supplied in automobile construction, well-tempered split washers may be placed under the heads of the bolts to keep them from rattling loose.

The car owner who intends to do any repainting work will do well to see that all exposed oil holes are stuffed with felt or waste to prevent their being painted over and so choked.

A good way to prevent oil leaking out of the crank case through the bolt holes is to back off the studs a quarter of an inch or so, and then wind several turns of cotton twine around the bolts.

Don't use gasoline to clean leather unless you want to crack it. Plain water with a few drops of ammonia will remove the dirt, after which the upholstery should be rubbed briskly with a soft cloth.

Sediment in time will collect in the bow of the carburetor, and from time to time the drain cock in the bottom should be opened to rid the instrument of any foreign particles which may have accumulated.

A good many motorists hold that a few teaspoonfuls of denatured alcohol squirted into the cylinders when they are hot, after which the engine is run fast for a couple of minutes, is the best carbon remover to be had.

The latch dogs on emergency brake levers are called upon for pretty strenuous service on occasion and they sometimes break. It is a good idea to have a spare latch dog in the tool box against this emergency.

REMEDY BUCKING AT SLOW SPEEDS

Many Small Adjustments Are Needed to Remove Play and Insure Smoothness.

JERKING HARMFUL TO AUTO

Misfiring Reduces Power of Engine to Such an Extent That Car Must Naturally Run With Most Uncomfortable Motion.

During the last few weeks the writer has received a great number of inquiries in which owners complain that the car bucks or jerks at low speeds. This condition is not only uncomfortable for the passengers but it is detrimental to the car, says a writer in Chicago Tribune. The ordinary garage mechanic—I mean the "gyp" sort—usually cannot make a proper diagnosis, and he cures the trouble only after he has taken the car half apart. If your car bucks, and you cannot determine the cause after reading this article, have a competent service man drive the car.

A car in perfect mechanical condition throughout will throttle down to five or four or even three miles an hour and pull evenly, but let there be misfiring and immediately the whole car starts to jerk. The misfiring so reduces the power of the engine and produces such lapses in the power impulses that the car must naturally run with a jerky motion. This applies to all cars, whether new or old. Whenever the engine cannot develop enough power to pull its load it falters just as a horse will tighten and then permit slack in the traces. You would do the same thing if you were dragging a heavy load. A carbonized engine cannot develop full power with a given throttle setting. Poor ignition, poor carburetion, improper valve timing, or any abnormal engine condition is likely to reduce the power and make the engine falter. It might even stall.

Common Cause of Trouble. But apart from the engine there are other causes of this common trouble. The commonest is due to too much play between the driving pinion and the large bevel gear or ring gear in the axle. It may, however, be due to excessive play anywhere in the driving system from the clutch to the rear wheels.

When the engine is under load and pulling, all the parts that move are tight. This includes engine parts—clutch, transmission, axle. They tighten like the traces tighten when a horse starts to pull and continues to pull. So long as this pulling continues there will be no noise, because the parts are tight against each other. If they were not they could not pull. In a car that bucks due to excessive play in the driving system the same effect practically may be had by slowing down and suddenly accelerating. This may be done by closing the throttle suddenly at 20 miles an hour and then suddenly opening it again.

At low speeds, however, it does not require a great amount of extra play to cause a knock and the objectionable bucking. A clutch that has a worn plate and weak springs will slap against the flywheel and give the bucking effect. A worn clutch shaft or worn clutch bearing would cause it.

Shaft Must Not Move. In the transmission the main shaft must not move back and forth, for if it does it will cause a knock, though it may not cause bucking, due to the fact that the movement is not transmitted to the other parts.

Universal joints with worn sliding members or worn bushings on the spiders will cause bucking. If the sliding shaft is not worn play elsewhere in the joint may be taken up and not noticed except as an occasional knock.

In the case of wire wheels it often happens that the wheel driving members become worn, giving the same effect as though there were play in the differential. If a wire wheel is not tight in place it will slap sideways and this knocking often is mistaken for a bucking rear end.

LIVE STOCK

CARELESS POISONING COSTLY

Frequent Reports Made of Animals Gaining Access to Paint Boxes and Other Containers.

The danger of animals becoming poisoned through the careless use of poison material when spraying or baiting for insects, is pointed out by officials at the Ohio Experimental station, Wooster.

Every year reports are sent in of animals suddenly dying from securing access to paint boxes and poison containers.

Sometimes Paris green boxes, white lead or arsenate of lead containers are thrown into the trash pile or dump and animals get the poison from these.

Paint boxes, even though thinly coated, are licked by cattle because of the sweetish taste of the lead compounds.

Such boxes should be thoroughly cleaned with gasoline before using for farm paints, it is stated.

Materials most dangerous to live stock are Paris green, London purple, arsenate of lead, calcium arsenate, and any compounds of arsenic or zinc.

USES ONLY PUREBRED SIRE

No Scrubs of Any Kind Found on Farm of Farmer Residing in Chillum County, Wash.

More than one-third of a group of farmers in Chillum county, Wash., who recently enrolled in the "Better Sires—Better Stock" campaign will purchase purebred sires in one or more classes of animals. The communications to the department of agriculture showed a particular interest in purebred boars, although many other classes of animals besides swine are kept in the community.

The owner of one well-stocked farm listed a Percheron stallion, a Guernsey



Keep Only the Best Mares and Breed Them to Sound, Purebred Stallions of the Same Breed.

bull, a Chester white boar, a Lincoln ram, a bronze gobbler, and a barred-rock rooster, all of pure breeding. There were no scrubs of any kind on this farm.

KEEPING HOGS IN CONDITION

Mixture of Charcoal, Salt, Air-Slaked Lime, Wood Ashes and Coppers is Favored.

For hogs running out the following preparation helps to keep them in good condition: Take of charcoal three bushels; of salt eight pounds; of air-slaked lime two quarts; of wood ashes one bushel; dissolve one pound of copperas in hot water, sprinkle with the solution the mixture of the other things; mix all up thoroughly and put the mixture in the feed boxes and set them where the hogs will have free access to them. Every farmer should have self-feeding boxes or racks, so that the stock can only get the needed supply and not waste it nor get too heavy a supply at one time.

PUREBRED STOCK ADVOCATED

Improvement Can Be More Quickly Brought About by Use of More Registered Sires.

The more general use of good purebred sires is strongly advocated as the foundation stone to live stock improvement on account of the fact that improvement can be more quickly and economically brought about in the herds of the country by the use of better sires than in any other way.

ECONOMIZE IN FEEDING HOGS

Where Abundance of Grain is Furnished Animals Will Not Eat as Much on Pasture.

Where too much grain is fed the hogs satisfy their appetites on grain and will not eat as much pasture as they should. For that reason under present conditions, when grain prices are high and pork prices comparatively low, it is advisable to limit the grain ration to two pounds or less.

ODD AND INTERESTING

Spain is the sunniest country in Europe.

Fog tends to rot clothes and curtains.

The banjo is apparently of African origin.

The Polish alphabet contains 33 letters.

A bat cannot rise from a perfectly level surface.

Diamonds have been discovered in fallen meteors.

The Japanese consider salted whale meat a delicacy.

A single grain of indigo dye will tint one ton of water.

The original home of the coffee plant is Abyssinia.

The world output of silk amounts to about 700 tons a day.

The United States has about twenty-three million dairy cows.

Crabs measuring two feet in length have been found in India.

Asparagus is said to be the oldest of all plants used for food.

Coal prices in Berlin are 1,200 per cent higher than before the war.

See-saw was played by the children of ancient Egypt 4,000 years ago.

It is proposed to adopt airplanes to further discoveries in darkest Africa.

Cushions filled with dried coffee grounds protect needles and pins from rusting.

Into one end of a pocketknife an inventor has inserted a coiled tape measure.

An electric tray of 36 eggs can be examined at once by a new rapid candling device.

Of the 400,000 Japanese living outside their native land, 130,000 are in the United States.

FARM JOURNAL SAYS:

Too many people say, "Good-morning," without realizing what it means. Think it over!

Both slopes of life are sunny, and God sends just enough tears to make the harvest rich and abundant.

A name for helping to make the world better is worth more than a certified check for \$10,000,000.

He who can win and keep the love of a little child hasn't much to worry about in this world or the next.

When politics are hot and still beating, keep your own counsel and have plenty of business right at home.

In any modern city it will be found that many of the most prominent people come from the country, and the great majority are descended from parents or grand-parents who lived in the country.

There is no better way to start the day than by helping the farm wife with some chore. Too many wrinkles in the wife's face come from just forgetting or neglecting to help her a bit now and then.

POINTED PARAGRAPHS

Destre is several laps ahead of possession.

Poverty is a hard nurse, but she raises healthy children.

Courts are a bowknot that matrimony pulls into a hard knot.

Compliments on a tombstone might be properly termed epi-taffy.

Some women spoil a lot of nature's fine work by trying to turn wheat into bread.

Yes, dear, great minds may run in the same channel, but more frequently they chute different courses.

Girls may never become successful pugilists, but they will continue to train for the engagement ring.

Nine out of every ten women on earth have a mission—and even the tenth would probably marry if asked.

A man isn't always to blame if he thinks more of his typewriter than he does of his wife—he can dictate to his typewriter.—Chicago Daily News.

FROM THE PENCIL'S POINT

A man seeks his ideal, a woman seeks the ideal of another.

All men are born equal—but few are equal to the emergency.

It's easier for you to make yourself tiresome than agreeable.

Elephants on His Hands. Order received by the grocer over the phone: "Please send us 10 cents worth of animal crackers and take out the elephants as the baby is afraid of them."—Boston Evening Transcript.

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'MESPOT' OIL NOT DEVELOPED

Necessity for Importing Foreign Labor is a Bar to Investment of Capital.

Mesopotamia is a rich field for oil, but the only wells in operation are a few sunk before the war by the Arabs. Not that the British need the Mesopotamian wells at present; they have more than they can use. But they are not even prospecting for it, nor are they allowing two representatives of a famous oil company of our own to prospect, though the American oil comes in by Abadan and is sold at something less than the Persian oil. One reason among many why big capitalists are not received here with open arms when they come forward with some big scheme for the country is that they generally begin by saying: "We must import labor."

Now the labor difficulty is serious here. Arabs are not very keen on getting much work out of themselves. The Kurd coolies seem to be the only ones that take to work and keep at it. One sees them carrying the most unbelievable burdens. Recently I saw a Kurd carrying a piano on his back, followed by an assistant who was steadying it, but not helping otherwise.

But the Arabs are willing to let the Kurds do it. During the war labor was so scarce that to keep going with their railroads and their irrigation schemes the British had to import Indians.—Maud Radford Warren in the Saturday Evening Post.

TRIAL BY JURY IN JAPAN

Anglo-Saxon Plan Will Be Accepted, by Government in Revising Their Civil Code.

The Japanese government is planning a revision of its civil code, and among the changes contemplated is the introduction of the jury system. To the Anglo-Saxon, who regards the jury system with more than usual pride as a thing of his own fashioning the news is singularly gratifying, for, taken on the whole, the Anglo-Saxon jury probably deals out as much justice as any other form of trial, remarks the North China Herald. There have been mistakes; quite as many as the trial by judge alone has committed, possibly more. But when a number of men sit in judgment, aided by the directions of a judge, their verdict is not so often wrong as to condemn the system. Trial by jury, as we understand it, entails the onus of proof resting upon the prosecution, the innocence of the defendant assumed until the offense is proved, and the duty for the jury of "passing between our sovereign lord the king and the prisoner at the bar." It frequently imparts that quality of humanity into the proceedings which enables the rendition of truer justice than the law often permits, and on that score alone has justified its retention in the courts of Great Britain and America.

Ominous Beginning. "It's the way you start that decides the course of married life," declares a philosopher. Is that young couple who honeymooned in an airplane destined to be always "up in the air"?—Boston Post.

A Grants Pass Interview

Mrs. Wallace Tells of Her Experience

The following brief account of an interview with a Grants Pass woman four years ago, and its sequel, will be read with keen interest by every citizen.

Mrs. T. E. Wallace, 421 S. 4th St., Grants Pass, says: "It was some years ago when I first learned the value of Doan's Kidney Pills and since then I have been a firm believer in Doan's. For some time previous to my taking Doan's Kidney Pills I was subject to kidney and bladder trouble. My kidneys acted very irregularly at times. During the spell with my kidneys, my back was so weak and sore I could hardly get about my work. When I bent over to make a bed or pick up something I would get sharp pains through my kidneys like a knife sticking me. When I had these attacks I couldn't keep from screaming. I never had anything cause me so much misery. A member of my family advised me to take Doan's Kidney Pills. The first box helped me wonderfully. My kidneys acted more regularly and the misery in my back let up. I took three boxes of Doan's Kidney Pills. They cured me of the attack of backache and kidney trouble." (Statement given March 21, 1916.)

On March 23, 1920, Mrs. Wallace added: "I always recommend Doan's Kidney Pills for I know there is nothing better for kidney complaint. They have always helped me when I have had need to use them."

Price 60c, at all dealers. Don't simply ask for a kidney remedy—get Doan's Kidney Pills—the same that Mrs. Wallace had. Foster-Milburn Co., Mfrs., Buffalo, N. Y.



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