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YOUR CAR DEMANDS PROTECTION OF A SUBSTANTIAL STRUCTURE



A Simple, Inexpensive Two Car Garage Constructed of Concrete Blocks.

A Simple, inexpensive Two-Car GaraThe amount, of money invested in 1
the average automobile or motor itruck justifies a substantial garage is that will afford the required protect that may be a substantial garage in the garage out of some non-combustible material.

Construction of Garage.

This has been done in the case of the garage shown in the illustration where concrete is the construction constends the substantial garage of this light, excavation for the foundation is a made to a depth of two or three feet.

A footing of concrete is put in place, id this footing belog about 18 inches in wide and 8 of 10 inches thick. The

stage Constructed of Concrete Blocks

foundation wall can be continued to
the ground line in monotitue construction if desired or else block can
be used, laying then up in cement
mortar for the sake of durability. The
block construction is then continued
up, leaving door openings of adequate
width and height and making prortsion for such windows—as are necessary. A fir-resistant roof, preferably
of concrete shingles or roofing tile,
tops the structure.

Concrete Floor Needed.
Every garage should have a concrete floor. This may be of one course
construction, four inches in thickness
being amply adequate. It should
slope either toward the doorway or
toward some point provided with a
drain so that the water used in washling the cur may be easily and quickly
carried away.

KEEP BRAKES IN CONDITION

Expert Advista Inspection of All Apparatus at Least Once a fonth.

MEANS BIG PAVING OF TIRES

ever Possible, Silding the Wheel en Stopping Car Should Be Avoided — Lubrication of High Importance.

The state laws of Ohlo and many ther states require that the brakes and mechanism of every car driven on, in public highways shall be in good orking order. The reason for this is obvious and should be remembered at all times by everyone who drives a

solving order. The design for this is eductions and should be requested at all times by everyone who drives a cit times by everyone who drives a cit times by everyone who drives a cit the proper adjustment of the brakes in order to make them work editeletely at all time equation experience and skill. If the brake bands are adjusted a little to riche's celose, they will then drag, and besides using an excessive amount of guestline to drive, the car, will sometimely become hot enought to him out the liming and in 'rare cases set the car, on 3re.

If the bands are a little too loose, then the brake brake size all tittle too loose, then the brake peedal will go clear against the floor board before producing the proper braking effect. If one brake band he a little tittle, than the other, most of the braking effect. If one brake band he a little tittle, than the other, most of the braking effect. If one brake band he a little tittle, than the other, most of the braking effect is on the wheel with the tighter band, which means that this wheel will stop spininized and this side the three with but little braking effect on the other wheel. This means, first, the spoiling-of the tire in a few bundred miles of service, and, second, very poor brakes on a car should be parallysted that, it is possible to slide both wheels with the action of either set of brakes without the aid of the other. At the same time, the wheels should be perfectly free to turn when the brake is not in use.

Ordinarily when stopping the cur, we do not wish to slide the wheels, as this places uninedessary stress on the brakes and braking mechanism and also palls of rears a lot of rubber off or the tread of the tires which are slided.

brakes and braking mechanism and also pulls or tents a lot of rubber off or the tread of the tires which are sliding.

Another reason is that a car will not stop so quickly with the wheels, sliding as when the brakes are applied just hand shough 70 permit 'them to turn'. All of the brake nechalism, the properties are should be brakes are applied just hand should be brakes are applied just hand should be brake nechalism, and the stop of the stop of the properties and the same and th

stop a car travellog it various sy leds on dry parsement w, it he brake in perfect condition. Tyraveling stytem miles am hour, a car ramy be stoj jed in less than its own length or app primately nine and one, all feet. Yet being 20 miles an hour, or two-as fast, the distance required to stop is four times as great or approximately 38 feet. Traveling 30 miles an hour, the shortest distance in which it is possible to stop is not three times as much as ten miles but nine times

an nour, the shortest distance in which it is possible to stop is not three times as much as ten miles, but nine times as much as ten miles, but nine times as much as ten miles, but nine times as much or a trifle over \$5 feet. This means that the distance in which, we can stop increases as the square of the speed at which we are travelling. These distances represent an emergency stop under ideal braking or flittons and if the streets are wet or slimy, these distances mest be multiplied many times. Therefore, ag in the writer says, EE CAREFUL.

Tree's Roots Hove Ground.

The roots of the likitishs palm of Central America ab spring from the stem above the ground, every new root emerging fro a point higher on the stem than t & one which proceed it.

Tre A Linet—They Will Sati fv.

Try A Liner-They Will Sati fy.

POOR PRIVERS WASTE POW/R

Much of the Difficulty in Hill Climbing in High Gear May Be Averted.

GIVE CAR SPEED AT START

Rough Places to B. Avoided, Since Eery Bounce of the Wheels Meant
Certain Loss Momentum
Don't Clarcurves.

Dark of Fources.

Much of the of guity in bill clinating in high gear is due to unnecessity with the property of the production of the property of the production of the produ

or feeding less gas for an instant while fielding over an unavoidable Sough place.

A lot of drivers imagine they are galding momentum by rushing over the rough places, but they would adcompil the more by taking it ensier. Unless the throttle is closed momentarility while he wheels are going over a very bank spot, with the car ful second great the machine, will oftdinest come ninest to a standardill.

The practice of coupling curves when there is no danger in doing so has sed to the habit of taking the short cut around curves when there is no danger in doing so has sed to the habit of taking the short cut around curves when the gas and the standard cut of the habit of taking the short cut around curves when this climbing. This accounts for the flost power of many a motor because the grade of the inner side of the cury is always greater than that of the outer side. The driver who in hill climbing teeps to the outer edge of of year-provided they are not dangerous greater than that of the outer side produced in the content of the curve of the curve of the inner side of the road of the other cuts of the cuts

You Auto Know

You Auto Know

That one of the principal reasons that three wear, out become the principal reasons that the wear, out become the principal reasons that the wear, out become the principal search of t guaranteed mileage is not forth

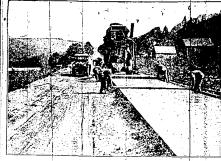
AUTOMOBILE ₩ G055IP.

Wet rubber cuts more easily than e same substance div.

New cars should be driven rather slowly for the first 1,000 miles. Never more than 30 miles per hour.

Two spare tires are usually carried in the car, but occasionally there are three or more punctures on one trip.

SOUND DEATH KNELL OF DETOUR IN NEW PROCESS OF BUILDING



Laying Pavement Over Half of Roadbed at One Time, Leaving Open to Traffic.

Laying Pavement Over Half of Readned at One Time, Leaving Other Half Open to Träffic.

Eliminiation of the "detour booky," first section of paving, it must be perfectly the bane of every touring motorists life, is seen as the successful outcome of recent experiments in what may be termed "spill grown" construction of concrete reads. At the end of this period it may then the threat spill grown construction of concrete reads, the part of the proper control of the second strip.

Two Principal Virtues.

Although a slight interest to open to traffic as the work progresses. This method has been found particularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effect, in round, and hilly country where detours are practicularly effective, in round, and hilly country where detours are practicularly effect, and the endough at the motorial ready and the endough at the m Two Principal Virtues.

Although a slight increase in original cost may be charged against this method, it has two principal virtues which commend, it to be tagginger and the motorist aftic. Doing away as it does with the depure, it cuts cost of motor operation more than half aside from the big item of decreased danger and boss of time and patience. Secondly, it claiming them some hardsurface roads broight becomes where the mading after the patient of the consequence of the control of the control

BOY BUILDS HIS OWN AUTOMOBILE



Chrence Succinic of Aurora, III., though only twetve years of uge, constructed his own automobile from parts of old machiners and motor and some cas pipe and georat curriage wheels. The boy, who is shown driving list cur with a tender attached, is of mechanical turn of mind. The little autowill put wite its wony weight.

AV TOMOBILE **AMPLINISAM**

Blown by suction from the intake to warn a motorist that the circulation of lubricating oil in his car has stopped.

Few owners pay the attention to the ball bearings that these latter deserve. They usually wait until the garage man calls attention to the injury done by breakage.

As a matter of safety to the car and passengers, as well as to save the stor-age battery from discharging, a short circuit in the electric system should be repaired as soon as possible.

The high-tension wiring of the electric system requires a much heaver insulation than other wires of the system, because of the high voltage current which passes through the former.

If it becomes necessary to remove a cam-shaft gear it must be marked so that it may be replaced correctly. Mark on tooth on the crankshaft gear and the two adjacent teeth on the cam-shaft gear.

A tap should never be used in a cored or rough hole. A heavy flat arm should be run through to take out the scale, sand or projections. Plenty of good lard should be used in cutting the threads with a die.

There is frequently danger of short importance. A mixture too lean or too chredits in the battery because of the rich makes for wastage, when a correct fact that one of the terminal is located one will do the work without ides. But ed net, the metal handle used ford without some knowledge, this is task. lifting he battery.

Dittle dust on the body or hood is a constant irritation to the owner and so he wipes it off with a cloth, grinding the grint into the polish. I light dust brush of fine hair may be used, but the only satisfactory way to remove the dirt' is to flow water on it.

You Auto Know

You Auto Know

That one of the most usual places for wear on a cht is at the steering knugktes which are always under a heavy strain. Comparatively few car owners realize that the knuckles need a constant supply of heavy grease in order to prevent under wear, and for this leason it is, the part of wisdom to see that the proper lubrical it is pulled—either through screwing down the grease cups or using the grease gun. A good rule to follow in this respect is to grease the knuckles whenever it is put in the car or at least, whoever the off is changed. "I should be incompared to the intuities signs of an over-used car and, in purchasing a second-hand machibe, these should be inspected in order to see whether the car has been used or abused. In this respect, the knuckles, together with several other particular parts, are regarded as the 'teeth' of the antomobile, for nexamination of these will disclose the real age of the earmont the length of time which has elapsed since its original purchase or even the number. Of the whether are it has received. (6 by the Whesler Bradient, Inc.)