BEST IN CARS AT MOTOR SHOW

Motors and Their Care

Practical Suggestions For Insuring Longevity of the Car.

A HANDY ACCESSORY.

MAKING THE CAR ATTRACTIVE. Boiled linseed oil is good for removing spots from varnish and for polishing the body of a car.

LITTLE HARDSHIPS. Avoid sudden stops, quick starts, on a dark night. springs and tires.

IMPORTANCE OF SAFE DRIVING. A car whose direction cannot be con

THE ENGINE'S BRAKING POWER. small mirror is exceedingly useful Using the engine as a brake on steep to reflect a ray of light on a dark spot in downgrades insures safety, saves the brakes and cools the engine.

> TROUBLE LIGHTS. Several of the 1922 models of passenger automobiles have a light placed under the hood, for inspecting the engine

Pastel colors and shades of automobile trolled is dangerous. Make frequent inspections of the steering mechanism. | weather so well as the deeper tones.

The New Four-door 490 Sedan \$1195 F. O. B. OSHAWA

THE upholstering and trimmings of the new Chevrolet "490" Four Door Sedan compares favorably with that of cars two and three times its price. Beautiful and durable automobile cloth is used throughout the interior. The Springs of this model are deep and resilient. Seats and back are well upholstered and this feature with the new body and Springs insures maximum comfort. The Four Doors afford easy access to front and rear compartments.

Ladies who drive will favor this new model. See it at our nearest dealers.

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Owners are getting 26 to 30 miles and more to the gallor

Write for booklet

'Owners' Opin-

EXCESSIVE GASOLINE CONSUMP

Excessive use of gasoline is due to a faulty carburetor adjustment, a poorly designed carburetor or intake manifold, or to keeping the engine cylinders at too low a temperature because the water in the cooling system is too cold.

CAREFUL DRIVING. Drive carefully and cautiously over a rough road, especially where large rocks stick up out of the roadbed. The blows from the rocks not only will ruin the tires, but also may be the cause of a broken spring or broken steering me-

CAUSES OF OVERHEATING. Overheating of an engine is caused by excess carbon in cylinders, poor lubrication, poor cooling, improper valve and PRETTY COLORS NOT SERVICE. ignition timing, valves not seating properly spark advanced too far, radiator not functioning properly, or improper fan adjustment

> WHEN PASSING THE CAR AHEAD. The blowing of a horn by an automo bile overtaking another car is a signal for the car ahead to pull over to the right to allow the car in the rear to pass on the left. Cars should not atempt to pass at an intersection, sharp turn, curve or when approaching the crest of a hill.

pieces of metal, that are working one a stop is to be made have proven very so in a way that make them absolutely and then moving it slowly forward in be asked to use the signs voluntarily. against the other, from touching. This is accomplished by having a film of oil between these two metals, and upon this film of oil depends the life of all the bearings, cylinders, pistons, rings, etc.

WORKING FOR IMPROVEMENTS. According to automotive engineers there are a hundred fundamental things about the modern car which are all wrong. The present form of transmitting the power from the engine to the driving wheels is a waste. The operator should not be compelled to shift gears. The ignition is far from perfect, the fuel consumption is double what it should be, and there is too much vibration and lost

SPRING FORETHOUGHT.

Oil the springs. Tighten the fan belt.

Adjust the carburetor. Examine cylinders for carbon. Take an inventory of the tool box and

accessories. See that every moving part is well iled and greased. Check up on tires and see that they

are in proper condition. Flush out the radiator and clean cool-Drain the crankcase, transmission and differential and wash out with kerosene.

Put in new oil and grease. Clean every working part of the car, particularly the parts underneath, which cent. of their actual value. many motorists forget ever exist. Go over the electrical system and see that all loose wires are fastened and loose connections attended to. Test the battery and, if necessary, have it re-

STURDINESS AND STRENGTH

The G. & J. heavy duty model is a sturdy truck of great power specially each car. constructed throughout. It is built with under all conditions, day in and day serious accident. out. In appearance it is husky, and In South America, Brazil has a motor careful inspection of every detail of vehicle for every 1,497 persons; Argenyour first impression of huskiness and every 455. giant power. It has the same charac- On the Pacific coast it is possible to teristic appearance as the other G. & travel in motor busses from Mexicali,

J. models.

Only the best materials obtainable are of 1,000 miles. used in the construction and rigid in-spection and expert workmanship insure every part being up to the G. & J. as a scheme to prevent violations of the standard of excellence. Units that are automobile speed laws. not completely built in the Walkerville not completely built in the Walkerville factory are of recognized worth. The factory are of recognized worth. The factory are of recognized worth. The driving radius type 61, Cadillac, is one of the hand-G. & J. trucks are being distributed in is 70 to 80 miles in level country and Western Ontario by Universal Motor from 50 to 60 miles in hilly districts.

THE PROPER SIGNALS FOR MOTORISTS TO USE WHEN TURNING CORNERS



Extend Arm Before Making Left-hand Turn.

With the increasing number of automobiles crowding the streets of London the time has come, according to the

The Motor

Digest

Gasoline sleighs are replacing dog

A school for automobile design has

Upwards of \$1,500,000 is spent each

week in New York City for taxi rides.

American-made passenger automobiles

The fine for speeding in Berlin, Ger-

Messenger boys in London, England,

use a motor scooter for the delivery of

Mexico is literally flooded with stolen

In Pennsylvania a passenger automo-

bile used as a truck regularly to carry

notion picture player, has a specially-

ouilt passenger automobile, costing \$10,-

Pullman motor buses are regularly

France has 60 manufacturers of motor

53,000 cars per annum. Eighty thousand

The average American passenger au-

tomobile has a wheel base of 122 inches,

carries 33x4-inch tires and weighs 3,100

pounds. The engine is of six cylinders.

Canadian customs officials are inves-

automobiles stolen in the United States

are being smuggled into Canada for

It is planned in London to do away

with all railways above ground, and the

old roadbeds are to be connected into

A traffic control system has been pro-

mechanism. The "stop" or "go" sign

is changed mechanically at regular

highways or speedways for motor traffic.

men are employed in the industry.

sorts. A valet and maid accompany

supplies is classed as a commer

telegrams and important letters.

are selling at prices ranging from \$319

been established in Italy.

Practically no foreign automobiles

are being imported into Germany.

sleds in Alaska.

American exchange.

to \$11,000.

mobiles of its customers may be parked while they are shopping. The proposed garage will accommodate 400 cars. In Germany, Red Cross first aid stations are making their appearance on the corners of Berlin streets where traffic is heavy. The stands contain bandages, lint and other hospital necessities and are fully equipped for any emerg-Automotive Activities Throughout

Automobile tax fees for a mediumsized four-cylinder car are as low as \$5 annually in some parts of the United States. The same car in England would call for a tax of \$62; in Spain, \$46; Belgium, \$18; France, \$124, and Italy \$400. Seated at the wheel of a big motor truck, and followed by a fleet of automobiles, Rev. E. J. Prescott, a Unitarian pastor of North Andover, Mass., goes out every Sunday morning and gathers his Sunday school pupils within a radius

of seven miles. many, is 100 marks, or 50 cents in throughout the state. The subscribers garages. New construction, detours, etc., are plainly indicated.

There are nine times as many passenger automobiles in the United States as 1922, over the Greater San Francisco Speedway, at San Carlos, Calif., offers a purse of \$50,000 and lap prizes of \$25,000. automobiles, which are sold for 50 per It is believed that this is the largest prize money ever listed for such a con- cause this? test.

sylvania motorist was recently fined \$10 and costs in Maryland for carrying too and costs in Maryland for carrying too they will be able to remedy your a Philadelphian, does business in Maryland, Delaware and Pennsylvania, and his car carried the license plates of those three states. According to the operated from London to seashore re- Maryland law, only two licenses may be displayed at one time.

An automobile owner, when paying The Automobile Club of America is his income tax, may deduct from the a large factor of safety so that it can be depended upon to carry heavy loads each in case of accidental death or license fee. He may also deduct the tax on gasoline, which is now imposed in a number of states in the Union construction and workmanship confirm tina, one for every 296; Chile, one for for violation while the car is being driven for pleasure purposes are not

CADILLAC PHAETON

somest models of the new Cadillac cars judged from the expressions of visitors viewing the models on display at the vehicles, with a production capacity of Motor Show and at the showrooms of storage battery, used for lighting and Beemer & Co., Limited, local Cadillac dealers.

It is a close-coupled open car, especially designed for the small family group or club foursome. It is trim and compact with just a touch of raciness tigating reports that more than 17,000 in its graceful lines. While primarily designed for four persons it contains room for five. This model, as all open models, is fin-

ished in Cadillac green with a few portions in black enamel. It is upholstered in heavy bright enameled black leather Those who are familiar with the Cadillac line will note the change in the passengers or less.

The hood is of sheet aluminum, which used for distributing hot coffee and is lighter and more serviceable than automobile industry who have dissandwiches to police and firemen at consteel. That portion of the rear axle housing which encloses the driving Of the country's estimated motor ve- gears has been reduced in size to perhicle registration, the Middle Western states lead with 3,397,036 cars. The practically no reduction in road clear-

John H. Holland, tea merchant, was



Extend Arm and Move Hand Forward Before Making Right Turn

CANADIAN PRODUCTS RESUMES.

The Canadian products division of

General Motors of Canada, Limited,

has resumed operations in its plant at

Walkerville on an increased scale after

being closed for one week for inventory.

It has been operated continuously for

the past year, employing from 600 to

1,000 men, manufacturing motors and

axles for Buick, Oldsmobile and Chevrolet cars. The expansion of operations

is due to the new policy of General

Motors to manufacture in Canada all

cars of these lines which are sold in

TIGHTEN ENGINE BOLTS.

Bolts, those which hold the engine

n place, when loose, may cause mis-

officials of the London Motor Club, are issued from time to time in the when there must be some compulsory street traffic orders issued by the police to indicate every turn and even the be extended with the arm drooping in arrangement enacted through a by-law department.

whereby turnings at street corners and In London a few drivers endeavor to According to the suggestions thrown These signals should be made, not stops will be regulated. The signals Indicate in a haphazard way their out by the Motor Club a turn to the just as the turns are started; but at

why oil is used. The signals shown in the above cuts are suggested by the club as a system which should be adopted in London.

The lubricating of the working parts of an automobile is to prevent any two of an automobile is to prevent any two of the left arm horizontally approaching a corner or a place where

Motor Car Problems Solved

One of Canada's Foremost Automotive Engineers Deals With Your Car Troubles-Address Motor Editor, Free Press.

alignment of the power plant, result-Motor Editor: My 1917 Studebaker car is hard to start. If I prime the ing in serious trouble. If there is even The Wisconsin Highway Department publishes every week a blueprint map showing routes and road conditions that to start. If I prime the start when a slight looseness of the bolts it starts easily, but when started the motor races.

F. T. Answer.—Your trouble is no doubt the supporting and pound and in time the supporting the supporting that the supporting the start to start. If I prime the support is started to start. If I prime the support is supported to start the start to start. If I prime the support is supported to start the start to start. If I prime the support is supported to start the start to start. If I prime the support is supported to start the start the start to start the caused by an air leak, probably a poor arm may be actually fractured. are Chambers of Commerce, hotels and gasket between the carburetor and manifold. There is a remote chance that the throttle shutter may be stuck.

> Motor Editor: My McLaughlin fourcylinder car is not firing on the second cylinder and I find that on turning the motor over that there is no compression on that cylinder. What would Answer .- There are two causes for bad compression, viz., badly fitted valves or badly fitting piston rings.

trouble very readily. Motor Editor: I have a Chalmers 6-30 and after I run a few blocks the motor will spit back through the car-

the car a while it will run for another few blocks. Answer.-Clean your vacuum tank and gas line. Motor Editor: How can the Bendix drive on the Ford starter be released

buretor and nearly stop. After I stand

when it gets locked in the flywheel? Answer .- Put the car in gear and ock the car backward and forward.

Motor Editor: I have noticed that on the backs of some makes of cars there are a couple of "fins", one on each side. What are these for? S. M. Answer.—To stop the air current

Motor Editor: Would you explain how it is that one of the cells in my starting, registers some 20 points below the other cells. Why don't all the cells register the same when tested with the hydrometer? Answer.-This defective cell has no

doubt got an accumulation of sediment that is high enough in the bottom of the jar to cause a slight short circuit, thereby robbing that cell of its accumulative powers. If there has been a leak in this jar and has had more distilled water added this would also account for the difference.

Editor's note: Questions for this column should be in the hands of the duced which is operated by clock-work improved seating arrangement of this Motor Editor, Free Press, not later than model, as of all models seating five noon each Thursday for publication the following Saturday. The editor re-The most comfortable riding qualities have been obtained through use of the queries submitted in all seriousness and Detroit, Mich., there is one passenger full length wheel base, 132 inches, and good faith. Correspondents should give automobile to each three families. This the lowering of the center of gravity of their names and addresses, not for pubis said to be the highest ratio in any the car by the use of smaller wheels. lication, but as evidence of good faith. hity in the country.

All Cadillac cars seating five passengers

An automobile "rolling canteen" is or less now have the full length wheelbeing designed for the Department of base.

Incation, but as evidence or good faith.

Any other signature desired can be used for publication at the conclusion of the queries.

Motorists and those interested in the or dealing with troubles in emergency cases are invited to give others the Be sure to write to one side of the

One of the leading department stores found dead of gas poisoning in his in St. Louis, Mo., is planning to erect office at Great Patrick street, Belfast, tribution of £50 to the funds of the a four-story garage, in which the auto- on Saturday morning.

Be Sure You're Right Your battery may seem

to be in such good condition that you may conclude it is functioning per-

But it pays to be sure, because batteries some--times show the wear very when the state of the

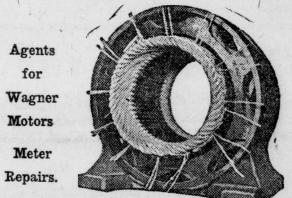
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The smooth flexibility of an "eight" at the price of a "six"

THE NEW **FOUR**

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city in the country. being designed for the Department of base. Public Safety of Philadelphia, Pa., to be The Finest Sedan Eastern States rank second, with 2,068,- ance. 246 cars, and the Southern States third with 2,044,009 cars.

Ever Sold for so Little The New Series Overland Sedan today sells for less SEDAN than the Touring Car in 1920.

> No other Sedan can equal it for gasoline economy. Its comfort is comparable only to that of much more expensive cars.

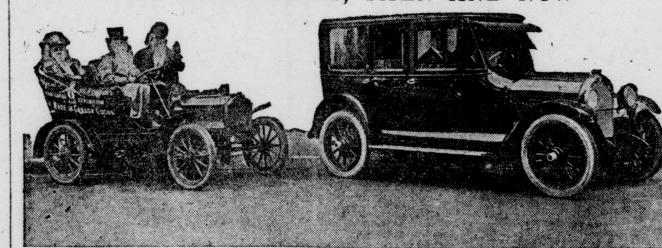
Four doors with adjustable plate-glass windows, tan velours upholstery on divan springs; cowl ventilator; electric lights, starter, horn, speedometer and demountable rims-all are included in the new low price.

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entirely new. It is powered with an finally O "8" cylinder "V" typed motor designed to give the utmost in efficiency at the minimum upkeep expense. This motor received grueling tests under various De climatic and road conditions, covering dri a period of approximately two years a

ineer's specifications were said of this motor that after it has It is now offered to the once been well worked-in it can be public in pleasing and driven indefinitely at maximum speeds without any fear of injury. It sole with the original handhicken
broiled put on the road in
broiled put