PAGES ONE TO EIGHT.



MUST FIRST LEARN THE PARTS

Driver Can Get Best Knowledge by Setting Engine Into Action and Watching Mechanism Work -Rules of the Road.

only by experience on the roads, there are irritating to the eyes. many essential preliminaries that can be garage or grounds, according to N. New should turn his attention to the cintch, into play, the main shaft may be driving the steering-wheel, which are shown in

The best method for the novice in learnwheels are just clear of the ground, sup. footboard. so that there may be no danger of the car

ward till an explosion takes place. With effort, then, but not before, is the driver mesh the low gear and, letting the clutch in rural districts. When a frightened horse more resistance to a forward than to a sun never sets upon the reign of the West-silp in very gradually, start the car at a silp in very gradually, start the car at a silp in very gradually, start the car at a light drive tion, shows a letter from a prominent ward till an explosion takes place. With effort; then, but not before, is the driver

Many Essential Points Can

Learned in Garage.

Learned in Garage and wish to metall and wish to metall and wish to metall and the standard in the second speed for some delining in the standard in the second speed on the interest them to in pairs, thereby diministic from the second speed on the following in the threat them to in pairs, thereby diministic form in the second speed on the second speed on the standard in the second speed on the fo

practicing thrown it in so gently that it the counter-shaft, not vice versa. does not start with a jerk, and throwing. Failure to get sufficient speed on the en- have their advantages. ing to drive a car is first to master the it out again, till his foot is so perfectly gine before fully reclutching means a jerk. use and rationale of the component parts familiar with the pedal and the movement a strain on the mechanism. and often a of the driving mechanism, then block the that he knows exactly where the cluch is statled engine. front wheels of the car by means of a jack, without having to look at it; having ac- The rationale of the operation of coming should not be used until complete mastery

the gasoline tank, set the spark lever back ling down the engine simultaneously with cupants of the car being aware of the acto the full extent of the quadrant and the de-clutching, and speeding up again after tion. the utmost consistent with regular running, vent racing, changing the gear, and again the road. When the engine has not been standing speeding up the engine so that there may long it may usually, unless magneto-fired, be no Jerk when the higher gear comes be started "on compression," that is, with- into play, is the most difficult thing for a out cranking, by the following method: Ad- novice in the whole task of controlling the vance the spark lever to the limit, set the car; it seems so complex. In time, howthrottle half way open, switch on the cur- ever, the movements become entirely auto-

ART OF AUTO DRIVING TOLD started, When the engine is the manoeuvers described above, one must be feels its confinence in ase.

The change to second speed may now away, in which case the cur should be overcome it.

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Though skillful driving can be learned Though skill driving can be learned Though skillful driving can be learned Though skill driving can be skilled to the skilled to the skilled to the skilled vancing the spark, so that when the new pull up suddenly should be cultivated above, before the car has lest its momentum, the When he can adjust the engine satisfac- gears, the relative size of which is the all other tactics. best acquired in the privacy of the private torily to various speeds, the beginner converse of that prior to the change come. There are two recognized ways of wolding stored without any check.

and raise the rear end till the driving quired this facility he may replace the to a lower speed is exactly the opposite of of the car is attained; many drivers, howporting the rear axle carefully at both ends, The next step is to attack the gears, go- much more perceptible or the road than hand-throttle entirely. ing steadily from neutral to first speed, when the wheels are running free in the slipping down. Having done this, and re- then to second and third and from neutral air. 'The ease and smoothness with which moved the footboard so as to expose the to reverse, being absolutely certain that gears are changed is one of the best tests clutch, start the engine in the following the clutch is completely disengaged before of the efficiency of a motor driver, exmanner: having turned on the cock from the change is made; also practicing slow- perts can change the gears! without the oc-

generator only. It will be necessary to siderable momentum before the change is which is detrimental to them and disagree- the road; to avoid a smoky exhaust and a ling. Of course care must be taken to see

used, a half or quarter turn will often suf- ished to as nearly as possible the lower practice the use of the brakes so that both horses. This last precaution is generally fice. Cranking should always be started speed desired before the change. These hand and foot may become efficient in findwith an upward stroke, never downward, operations, especially the former, require ing and applying them without the aid of, are inured to motors, but in country disand directly the engine has begun to act the considerable practice before they can be the eyes. Mistaking the gear lever for the tricts it is one of the most important items at a moderate speed; this not only reduces number of trips. In other words, it has the strain on the tires, but is also much considerable practice before they can be the engine has begun to act the considerable practice before they can be the strain on the tires, but is also much considerable practice before they can be the most important items. spark lever should be advanced about halfway and the throttle lever brought back to

specific perfore they can be brake lever, when flurried, has proved a lin the list.

I always make a rule in country districts

the strain on the tires, but is also much castly done four times the work, or take lever, when flurried, has proved a lin the list.

I always make a rule in country districts

the place of four horse-drawn wagons.

Having ascertained that the gasolene, oil.

the accompanying illustrations, and both

The "accelerator," or foot-throttle, found from the foregoing directions, because it

Duties of Driver.

The motor driver's duties to the public the stone. the road and at a moderate speed, especi- which precludes a complete semicircle, ithrottle-lever about midway; close the sparking-circuit by means of the switch on the dashboard, and proceed to crank. In case of a car which is fired by a magnetocut-out muffler; to carry efficient lights that the road is clear before starting the "spin" the engine several times to obtain made, and conversely in changing to a spie to the passengers.

cut-out muffler; to carry efficient lights that the road is clear ignition; when batteries or storage cells are lower gear that the speed should be dimin-

of watching the ears of every horse I meet; car. When facility in all these manipulations should they be pricked up at the sight of

ways to attain speed in the engine as much as possible by advarcing the shark lever, not by increasing the shark lever, not by increasing the shark lever, isfactorily.

What "Knocka" Mean.

T'knock" in the engine indicates that the spark is too far advanced, and weak and thus an equilibrium is obtained by the practiced will run best on third speed thought proportion from the cigine will run best on third speed the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine will run best on third speed throat in the cigine and to run at the cigine and to run at the cigine and to run at the cigine and the cigine and to run normal conditions of running will be re-

Subject of Brnkes.

strongly urge my readers to avoid skillding. This firm has a contract in New York City. on most cars has been purposely omitted the wheels, a brake gives its highest effect for hauling coal, ashes, gravel and similar just short of skidding, so that skidding city work, and the White company were means the loss of braking power as well as asked to design a suitable dumping body means the loss of braking power as the make the undue wear on the tires. Another thing to which would rapidly handle and make the of Colonel George Pope, chairman; Charles the above. The effects just described are ever, drive by it alone and disregard the be avoided is pulling up so close to the motor truck feasible and economical. curb that the front wheels cannot be turned. The first truck has now been in operaaway without rubbing against the edge of tion some two months and has proven a

ally when negotiating curves and turns; to always embarrassing to the novice, espekeep a good lookout ahead, to sound his cially among traffic. Instead of starting

the strain on the tires, but is also much easily done four times the work, or taken

is attained, the car may be taken out on a the car I slow down, switch off the engine brakes; this will only aggravate matters; compared with one motor truck. and my to run past noiselessly; if the horse counteract the slipping by steering, and restill shows signs of alarm I stop and await duce the speed, but keep a little driving developments. Failure to extend this power on the wheels, as a gar always Burton J. Westcott, president of the and water tanks are well supplied and the trivial courtesy is responsible for nine- travels in the line of least resistance, the Westcott Motor Car company of Richmond. rent, and then draw the spark lever back- matic and are performed without conscious engine running smoothly, the driver should tenths of the prejudice against motor cars fact of side-slipping shows that there is Va., is authority for the statement that the

New York Contractor Uses a Type Equipped with a Domping Hady.

A suitable dumping body has at last been designed for the motor truck, and is placed While on the subject of brakes I would in operation by a firm in New York City.

revelation in efficiency and economy of opare: To drive his car on his own side of Turning round in a street, the width of eration. This truck is carrying wet ashes from a power house situated on the Harlem river at Two Hundred and Twenty-fourth street, to a new street which is being filled

> In negotiating corners and sharp turns five to six trips. The truck has been car-In case of side-slip never apply the of expense of the up-keep of four teams as

Never start the engine close to a horse good low-priced ronabouts, and that they

son Sounce Garden.

That the Association of Licensed Automobile Manufacturers propose to make the eleventh National Automobile show, to be held in Madison Square Garden January 7 to 21, 1911, the most important in the bisfory of motordom was made evident this week by the basuance of floor diagrams showing the arrangement of space for exhibitors at the double show.

Although the show is some three months distant, the show committee, censisting Clifton, Alfred Reeves and Merle L. Downs, secretary, will leave no stone unturned to make the forthcoming exhibitions minutely typical of the gigantic industry they now represent.

The automobile industry is now one of America's foremost keystones and it is I proper that the great annual display of all that is latest in the automobile world should be fittingly set forth in comprehensive order for the edification of the American public. The automobile induscomparison with horses the regular teams try long has passed the embryonic stage and the purchaser of a car today needs no been hauling three and a half cubic yards further guarantee of its reliability than to a load. The daily trips average from the stamp of the Association of Licensed Automobile Manufacturers.

the forthcoming show will be the largporters licensed under the Selden patent will house their exhibits within the con-Of course there can, be no comparison fines of the nationally famous Madison Square Garden. Former show-goers will scarcely be able to recognize the familiar lines of the amphitheater, so radical are the changes planned in its interior con-

"Is Mrs. Gaussip a friend of yours?"
"No: she's a friend of my wife's."
"Isn't that the same thing?"
"Not at all. She feels very sorry for my
wife."—Pittsburg Post.

