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Champion"X" A-15, ½-inch Price, 90c.

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is Ford's selection and should be yours

Nearly half of the cars in Canada are Fords. Each one left the factory equipped with Champion "X" plugs.

The significance of this fact, and the proved efficiency of Ford cars, speak volumes to spark plug users in making replacements in Ford cars and those of other makes or in trucks, tractors, farm engines, motor-boats, or motor-cycles.

Service dependability is built into our "3450" insulator, which takes, without breaking, punishment and abuse that has been considered impossible in anything but metal.

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Sold where motor goods are sold

Champion Spark Plug Co. of Canada, Limited Windsor, Ontario

Largest Factory in Canada making Spark Plugs exclusively

Dependable Spark Plugs

In the Automobile World

MECHANICAL ADVICE IS GIVEN FOR ALL AUTOMOBILE OWNERS!

When the car owner is confronted | how you will descend, that is, whetwith the condition of excessive of her you can control the car with the consumption and no reasonable ex- prakes alone or whether it will be neplanation is forthcoming, it is well cessary to use the second or first + and repair at once.

habit of using a spare tire to afford material. regular changes, beginning at the right front and progressing around the car, is a valuable one to form, In is preferable to engage the clutch + need for them is gone. this way each tire nets a week's rest gradually and see that the car starts + Remove grease, oil and acids 4 in four, during which time it should with as much ease as is possible. be gone over carefully and have any cuts and abrasions vulcanized.

The continued use of rims that have become bent or badly dented will invariably cause rim cutting. which means the end of the casing's usefulness. Another error is to neg- tened, always slow down, and if nelect to keep the valve stem and stay bolts tight, When this is not done, water will cause no end of trouble.

squeaking pour a little kerosene over is against the pulley surface. The with a tire chain on only one of the it, guiding the oil down the sides smooth side of the leather has a rear wheels. While it is true that with finger so it will run in between much greater traction adherence. by insuring good traction for one the leaves. Wipe off the excess. Pour cylinder oil over the springs the same Whenever your car has suffered a that the car will be able to move way, then shake the car, so the oil bump of any kind, a crash against over even the slipperiest places, still will be drawn in.

that the acid has entered the plates and the battery needs recharging. Adding acid will sulphate the battery and ruin it.

When the motor shows any tendency to labor on driving upgrade on high gear, shift back into the lower gear which has been provided for just such a purpose.

A self-lubricating bushing for a ing is in place. Then by removing the spring bolts every six months and repacking the bushing with graphite a nearly self-sufficing bushing, so far as lubrication goes, will result.

enamel parts is made of two and twenty pounds more per inch than is to a pound of washing soda crystals. of pressure to open the valve. Apply briskly with a soft rag, then polish with flannel. Before using the where the bare enamel is exposed.

to suspect the rear crank shaft bear- gears for their braking power. Then . Be careful in placing tubes. ing permits the oil to work out and if the grade of the hill is quite long. + Avoid sudden starts, quick materially increase the consumption. it is best to alternate with the foor + stops and skidding. and emergency brakes, as lengthy ap-From the man who wants to get plication of either one will cause it maximum mileage from his tires, the to heat and burn the brake friction

Never start you car with a jerk. It + take them off as soon as the +

The asphaltum on the top of a bat- oline. tery cell may be sealed again by the application of a little heat. If a horse driving along in front of

you shows any inclination to be frighcessary stop your motor. When the leather fan belt develops

will lead to excessive wear. always best to use a hydrometer and to the wise is sufficient. if the liquid reads 1,275 to 1,300 all is well. If it gets down to 1,200 have the system looked over by an

car unguarded.

When the tires are being inflated in a public garage the figures on the guage on the tank should not be accepted as strictly accurate, because A good cleanser for greasy or dull this guage usually registers about

solution be sure that all the crystals from theft. Always make it a rule are dissolved. This solution will ruin Occasionally, when you change a chasers during the 1920 season at an varnish and paint surfaces. Use only wheel, cover the metal contact sur- average cost of \$3,000 per machine. face with grease, otherwise the detachable wheel will no longer be a

Before driving down a hill decide detachable wheel.

Interesting Items **About Auto Events**

roads" campaign. Motor tractors for removing snow have been perfected. In 1919 there were 16,412 motor

drivers' licenses issued in Norway. Of these 403 were to women. The average life of motor trucks on farms is estimated between six and one-half years to seven years. On account of marked increase in the cost of everything, motoring in Europe today appears to be a sport

for kings only. City assessors in Washburn, Wis., found more automobiles than dogs in that town. Motor vehicles total 140, against 122 dogs.

In England commercial motor vehicle fitted up with temporary seats for Sunday excursions is known as a "char-a-banc." A new world's record for 100 miles

ever a dirt track for an automobile was recently made in 89 minutes and 23 seconds. Miss Eleanor Marshall, a New

York golfer, recently furnished her caddle with a "scootomotor" for travelling over an 18-hole course. The Island of Spitzenbergen, one of the farthest north islands inhabi-

ted, boasts its first motor truck. It is operated by a Norwegian coal com-

ken by farmers.

He knows of seven Russian generals who are sweeping the streets in Fin-

when & train carrying 200,000 gallons recently arrived from Oklahoma, it was officially welcomed by Mayor M. P. Snyder and officials of the Au-New Zealand is having a "good tomobile club of Southern California.

At the most congested point in Paris, the Printemps corner, an army officer undertook to establish traffic regulations for the reckless confusion characteristic of French traffic. Perfect order prevailed during the three hours of the officer's supervi-

Taxation of automobiles is heavier than any other kind of property. Morotists in England pay a license tax of \$5 annually per horse-power. Don't fail to keep the truck clean; this means inside as well as out. There were 1,438 automobiles in

use in France in 1899. Oil Feed in Cylinder. If the oil continues to work up past the piston head after you have run the car a few hundred miles have the piston removed and fitted with speclal steel rings or have some oneeighth inch holes drilled directly below the lower ring and also below the ring next to the top ring. Any skilled motor mechanic can do this to give the oil a chance to drain back instead of working up to the top.

Carburetor Trouble. Many cars have no provision aside from a strainer in the tank for keep-In Canada more than three-fourths ing out dirt from the carburetor. of the 52,500 automobile licenses is- Owners of such vehicles will do well sued during the first six months of to fit a trap in the fuel line. All the this year in Saskatchewan were ta- big carburetor makers offer these traps, which are to be placed in the Major-General George Y. d'Hel- line near the carburetor or in the botburg, former officer of the army of tom of the tank. The trap catches the Czar, is holding a \$35 job as me- all the dirt and water and should be chanic in a garage in New York City. cleaned out regularly once a month.

An English scientist who has experimented in several countries be-The shortage of gasoline has been lieves that yellow clothing repels so acute in Los Angeles, Cal., that mosquitoes.

WHEN MOTHER LEARNS TO DRIVE

Father has a motor car, but he's a ry ailroad man. Whose hours are mostly spent on tra ins-it's seldom that he can Get all the folks together and take t hem for a ride. So mother made the threat one day t hat she would learn to drive.

Now mother, be it known, has not th Of playing groom to motor cars-her But she is of a stubborn breed-she To run the blooming thing or "bust"

Her threat put father in a stew-he And all he'll gather from the wreck He's had it heavily insured-someho To save himself from certain ruin if

Mother has purchased gauntlets, als And spent a heap of coin in frocks-For lack of having proper gear-of To make the job a big success when

She's reading books on gas and off, c Pa says you'd think she's studying a And hints 'twould be no waste of tim To learn our parking laws, and such,

But all things must be sometimes tri ed so time will tell the tale. If she can make the thing a go of if her efforts fail: But let us hope the family will safely home arrive.

e knowledge for the part line's a baby's cart, swears that she will strive -she's going to learn to drive.

says there'll be a smash, will be a mesh of hash; w he must contrive mother learns to drive.

e dust coat and a veil, she's bound she will not fail nought herself deprive she starts in to drive.

arburetors, brakes, e or thought if she would strive if she must learn to drive.

For they will take an swful chance | when mother learns to drive,

TIRE CODE.

Keep tires properly inflated. Be sure to repair little cut threads regularly. Prevent blowouts by avoid

Have mud boils cleaned out

Keep out of ruts and car + tracks. Apply chains properly and +

+ from your tires at once by us- + + ing a cloth moistened with gas-Examine clincher rims occas-

+ fonally for irregularities and + Carry spare tubes in a bag. Keep spare tires covered.

Keep Rear Wheels Shod.

considerable slippage it is probably You often see cars ambling along If in a hurry to stop a spring from because the rough side of the leather the wet pavements on a rainy day of the rear wheels the chances are the curb or anything of that sort, it is a bad practice to use but one the wheels should immediately be chain because you are thereby im-Never add acid to a storage bat- tested for alignment, as a bang of posing too great a strain on the diftery. If the solution is weak it means this kind is quite enough to force ferential. By working it overtime them out of correct alignment, which in this fashion undue wear is the result and no doubt many noisy axles Batteries should never be tested stunts as this. By using but the with a screw-driver as it causes a few minutes' extra time it would take great drain on the batteries. It is to put on the other chain. A word

> Scraping Cylinders. It has long been customary to clean gasoline engine cylinders with

long-handled scraping tools, the out-Throwing the ignition switch to ting edges of which are hardened. spring bolt can easiliy be made by "off" position and then leaving the In scraping a cylinder in this mandrilling, say eight holes, each 3-16 keys in place, does not insure the car ner, it is important to have the pisof an inch in diameter, through a from theft. Always make it a rule ton in the uppermost position of its new bronze bushing. These holes are to take the keys with you no matter sweep, since otherwise the scraping packed with graphite when the bush- how short a time you are leaving the tool is likely to slip into the bore of the cylinder and injure the smooth surface of the cylinder wall.

Investing in Tractors. Farmers of Saskatchewan have invested more than six million dollars in new tractors this year, according one-half gallons of lukewarm water in the tire, since it takes that amount to the estimate of managers of Saskatoon branch houses of big implement firms. It is stated by them If you have detached wheels re- that roughly two thousand new tractors have been turned over to pur-

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