

# In The World of Easy Travel

## Helpful Hints For Auto Owners.

In reassembling be careful not to time the spark too early. The spark, retarded, should not occur before top dead centre. The spark occurs in a magnet and with a plain coil system at the moment of the interrupter points separating. With vibrator coil, the spark takes place as soon as the vibrator operates.

Take off rear wheel and see that inside brake shoes properly release from brake drum. The springs may be broken. Occasionally the toggle operating the cam is bent and does not allow the brake to release. If you have demountable rims see that security bolts are tight.

Make sure that there is sufficient clearance, about the thickness of a visiting card, between the valve stem and push rods. Adjustments are provided for this purpose. See that valve caps are replaced tightly.

If one rear tire is larger than the other a differential action is set up which causes needless wear on it. The tires on the rear wheels should be of the same size. Different makes of tires, especially the larger types, sometimes differ in size, even though marked the same. While the difference may not be great, nevertheless any difference causes a slight differential action.

Trouble may be caused by unequal brake adjustment—the brake operating on the right wheel holding better than the brake operating on the left wheel. Both wheels should be raised on jacks, and the brake acting rods, etc., adjusted so that when the brake is applied the tension on each will be equal. This will avoid skidding, and also relieve strain on either tire.

Undue noise in the operation of a fan may arise from one or more of the blades being loose where riveted to the casting, the bearing being worn or requiring adjustment or the pulley being insecurely fixed. It is important that a piece of mechanism revolving with the high speed of a fan be correctly balanced.

A spark occurring too late would not cause a knock. Driving a car under that condition would be likely to cause overheating with consequent pre-ignition if sufficient carbon should accumulate in the cylinders after switching off the spark. A "knock" may also be due to play at a main or connecting rod bearing or wrist pin. If the trouble is caused by this the knock will become distinctly less when the spark is short circuited on the cylinder where the knock occurs.

Intimate acquaintance. Provide, hot water, soap and rags, jack up the wheel, sit down on a low seat, wash off the tread and look it over carefully. Dig out all particles of grit with a screwdriver. Clean out small cuts with gasoline and fill with repair putty. Note if tread is worn by car tracks, stopping too suddenly, skidding, or wheels out of line. Sometimes a cut will develop which should be seen and given immediate attention so as to avoid a troublesome blow-out later.

To tell which cylinder is missing explosions, short-circuit the plug with a screwdriver. Touch the end to the cylinder and lean the blade against the head of plug. This will prevent that cylinder from firing. If it is a live cylinder this will change the sound of the exhaust. If it is a dead cylinder it will make no difference in the sound of the exhaust. By noting the sound of the exhaust you can tell which cylinder is missing explosions.

When we find that a certain cylinder is missing explosions we must determine whether the fault is in the spark plug or not. Disconnect the wire at the plug and hold one quarter inch away from the plug, with the engine running. If the spark jumps it shows trouble as in the plug. If no spark is seen the trouble is in some other part of the system.

When using a monkey wrench remember to close up the jaws very carefully against the flat side, the nut or the corners will be rounded off. An open-end wrench is better, but a full box of socket wrenches will be found a good investment. They apply an even strain all around the nut and do not damage it in the least.

Don't neglect to use soapstone (fire chalk) when changing tires. Dust it freely into the shoe before inserting the tube. Then rub a cloth (not a greasy one) around inside to spread the chalk evenly. It allows the tube to settle into place down the heat, thus prolonging the life of the tube.

At the first signs of steam at the radiator, consider whether you have been driving your car too fast or not. If failure of the water pump is suspected hold hand on bottom of radiator and if it is noticeably cooler than the top, the pump is not working properly.

Never use a cloth in removing dust from the painted part of body. It grinds the grit into the paint and soon spoils the gloss, acting like a

piece of sandpaper. If you must remove it use a fine duster, but washing is the only proper way to remove dust or mud.

Remember that gasoline, oil, grease, heat and light are deadly foes of tires. A little gasoline may be used to wipe off grease if allowed to evaporate immediately. Spare tubes and shoes should be protected from light, which, however, does not seem to effect the tires on a car, probably because they are kept lively by use.

When folding up a top be careful that no part of the fabric gets caught between the bows, particularly the metal stops where one bow rests on another. On account of the shaking of the car when running the fabric will be weakened and the top will be left a few days will be worn away, making a number of small holes.

Accurate record should be kept of the mileage of both tube and tires. This will give you a basis for adjustments, showing also if you are using your tires properly, which makes are good, and so on. A tire mileage book can be obtained from most dealers on request and its use is very simple.

Many men are adopting the Palm Beach suits for touring and camping wear. They are cool and no dust coat is required over them. They are in gray tan or olive green. Some of the suits made to order are designed in the mock model instead of the familiar Norfolk style.

Touring and camping are now interesting motorists. The tents depending on the automobile in part for support come in several different styles.

Pneumatic air mattresses are great comforts for the campers. They are so made as to do away with the need of a pillow, are easily blown up and are light to carry.

Chinese red chinchilla cloth coats are the latest for wear as extra wraps. The coats are made in the full, man-of-war model, and are finished with the new narrow strap belts and black leather buttons. The new familiar military pockets adorn the sides, and a change pocket is inserted under the right cuff.

**Splendid Demonstration.**  
A splendid demonstration of the speed and durability of the Overland Model 86 was the recent run made by W. McConnell, Hamilton, Ont., city mechanic to the Dundas Hydro substation to put out a fire. O'Connell's car made the five miles in six minutes, carrying a heavy fire hose. He reached the scene of the conflagration far ahead of all other fire apparatus, even ahead of the fire chief, who drove another make of automobile.

**WAS SUCCESSFUL.**  
Studebaker Six Plows Through Washed-Out Roads.

When a man drives his car successfully against almost insurmountable odds over roads that are practically impassable, he is quite likely to be enthusiastic about that car.

Such is the experience of George Dennison, of Brandon, who recently made a trip in his Studebaker Six from his home town to Camp Hughes. Though he had always found his car ready to respond under all circumstances, he had never before faced conditions such as he encountered on this run.

On account of heavy rains there was a bad wash-out along the route between Brandon and Camp Hughes. Some seventeen drivers in practically all makes of cars were stuck and had to be pulled out with teams.

Mr. Dennison saw at a glance when he came to this stretch of road that his Studebaker faced a crucial test, and he found it equal to the task of pulling through the mire without much trouble. Furthermore, the car was loaded down with a bevy of Brandon's beautiful nurses, who were to be special visitors at Camp Hughes.

Many an owner may get good service and be well satisfied with his automobile; yet it is a test such as Mr. Dennison put his car through that turns mere satisfaction into enthusiasm. It requires a supreme test generally to make an owner realize just how much pulling power and reliability his car really has. Mr. Dennison is naturally convinced now that his car can make good in any task short of climbing the side of a house.

**CHEMIST BIG FACTOR**  
Tire Manufacturers Depend Upon Proper Compound For Success.

Few people realize the tremendous importance of the chemist in the rubber business, according to an official of the F. B. Goodrich Company. Pure rubber, merely vulcanized, would never do—it would be too soft, too yielding, too easily worn out he said. So the chemist compounds. He mixes certain chemicals to either toughen or stiffen or make more pliable the rubber, according to the product.

You could not, for example, use the same compound in a water bottle that you would in a tire—they are intended for different purposes, it was pointed out. The secret in the compounding of the materials. The Goodrich laboratories are wonderfully equipped, they are really a miniature factory. And the products they turn out have been tested to a degree that would astonish the layman.

You might do worse than exaggerate the goodness of your friends.

## Why pay more for Less Value in some other car

**NEVER** in the entire history of the motor industry has there been a 6-cylinder car that offered such GREAT value for the price as this Studebaker SERIES 17 Six at \$1450. To approach it in POWER and SIZE, you must look among cars priced hundreds of dollars higher. And none of the cars closer to its price give as much power, size, room, luxury of finish and fittings and basic quality of materials.

Here are the essentials of this magnificent "MADE-IN-CANADA" car on which to base comparisons—FIFTY horse power—motor 3 1/2-inch bore x 5-inch stroke; comfort for SEVEN passengers; 122-inch wheelbase; 34 x 4 tires that give not only tire economy but riding ease; genuine straight-grain, semi-glassed leather upholstery; and quality of materials and workmanship in every detail that are unequaled at any price.

Why pay a higher price for a car that gives LESS than this? We urge you to let us demonstrate this wonderful SIX before you buy any car.



### Fifty horse-power 7 passenger SIX \$1450



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Landau Model, 5-passenger	1300
Six-Cylinder Models	
Touring Car, 7-passenger	\$1450
Landau Model, 7-passenger	1700

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## The Newest Notes of Science

New Zealand has a waterfall that is 1,204 feet high.  
By exploding a powder made of whale oil at present than ever before.  
In a town in the heart of Russia's salt fields many houses are built of salt.  
Binocular sights are used in aiming a sporting rifle an Ohio man has invented.  
Spain claims to be furnishing more than three quarters of the world's supply of olive oil.  
A slide rule has been invented to help in writing and translating messages sent in cipher.  
By exploding a powder made of cordite and carbon an English scientist has produced minute diamonds.  
A rubber band around a bell of an alarm clock will lessen its noise with-

out impairing its efficiency.  
Of the 4,750,000 acres in Wales, 2,000,000 are under permanent pasture and only 700,000 are cultivated.  
A device has been invented to be fastened to shears so that they always will be sharpened at the same bevel.  
Oxygen apparatus that can be carried in a man's pocket has been invented in France for reviving gas victims.  
A tropical tree, the matapalo, grows only with the aid of another tree, which it gradually envelops and kills.  
Duralium is the name given in German to several light but tough alloys in which aluminium plays the chief part.  
More than 40 Kentucky counties

are now producing petroleum as compared with three at the beginning of the year.  
Since new telegraph cables to Ceylon have been opened messages have been transmitted from London within half an hour.  
By a French invention naphthalene has been made available for automobile fuel, pipes conveying hot exhaust gases from a specially designed engine which has been primed with gasoline melting the naphthalene.  
Apparatus that simplifies the examination of paper money under a magnifying glass has been patented by a California woman.  
Paris has the largest steam turbine electric plant in Europe, a street railway power station producing 120,000 horsepower.  
The top of a new typewriter desk is unbroken, the machine being mounted on a shelf beneath that swings outward and upward.  
French chemists observed the centenary of the discovery of iodine by

erecting a tablet on the birthplace of the discoverer.  
A frosted glass cone that will fit any hanging electric light shade has been invented to diffuse the otherwise glaring light.  
An Indian tribe in Bolivia shuns the whites and lives as in the stone age, making tools and weapons of stone, bone and wood.  
For hair singing a comb has been invented that entirely surrounds the hair and guards against any danger of it catching fire.  
The Philippine assembly has put up a substantial prize for a means for destroying a tobacco insect pest without injuring the tobacco.  
A set of aluminum cooking utensils with an interchangeable handle for all, easily kept cool, has been patented by a New York inventor.  
The Russian government will build an iodine factory at Vladivostok, utilizing the vast supplies of seaweed that grow in that vicinity.  
Automobile builders claim that more power is being developed in the United States by motor engines than in all the commercial steamboilers.  
Short iron metal strips to which steel bars can be quickly fastened at even distances apart have been patented for simplifying the work of building up the reinforcement for reinforced concrete work.  
An Englishman has invented a device to enable aviators in flight to pick messages from the ground by dropping a grapnel at the end of a line.  
Attached to a life preserver invented by a Buffalo man is a device that enables him to breathe in the roughest water and also to signal for help.  
A German scientist contends that linoleum on the floor of a house kills bacteria that may be brought in on shoes because of the linseed oil it contains.  
A stream runs most rapidly one fifth of its depth below the surface and its average speed is that of the current two fifths of the depth above the bottom.  
Vehicles resembling light automobiles, but without motors, are used in some Swiss mountain resorts for a sport resembling tobogganing in snowless seasons.  
Pieces of rubber sponge cover a new metal case in which soap can be carried, water finding its way to the soap forming lather that exudes through the sponge.  
An eighteen-year-old British electric-light industry has grown from 38 private companies and 33 municipal plants to 276 private companies and 328 municipal plants.  
A torch that has been invented to melt sealing wax carries the wax in tongs that may be turned to drop the softened wax where needed without burning the fingers.  
Fungi discovered in breweries by a Japanese scientist have been found to dye silk to a beautiful rose color, but to be harmless when used in the manufacture of beer.  
There were 1,036 vessels of 347,347 gross tons built in the United States in the fiscal year ending with June as compared with 1,266 of 216,711 tons in the preceding year.  
German scientists have invented a glass for X-ray photography that absorbs but from ten to fifteen per-

## If YOUR family were living in Belgium NOW

You'd Look on the Belgian Relief Fund As the Finest Thing in the World.

King Albert's war-worn soldiers, holding the line at the British left, certainly look on it in that light. It gives them courage for the fight, and hope for the future, for it is saving the lives of their loved ones.

The work which the Belgian Relief Commission is doing for humanity has never been equalled. For nearly two years now, from two to three million destitute Belgians have been fed, and horrible wholesale starvation averted. While the Relief Fund has only been sufficient to provide the bare necessities, these people, who have absolutely nothing else, have been saved by the three slices of bread and the pint of soup dealt out to each one daily.

Can it be kept up, on a steadily growing scale, till Belgium is free again?

That depends largely on Canada, and partly on YOU.

The demands on the Fund are steadily growing, as more and more Belgian families reach the end of their resources. More money must be given to keep up even the slender rations now possible. But the end of the war does not seem so far off now, and if we can keep up and even increase our givings for a little while longer, we shall be able to save the heroic Belgian people for a new and regenerated Belgium.

Will you do your part? Will you undertake to feed one—or several—Belgian families till the war is over, by contributing \$2.50 per family per month?

Whatever you feel you can give, send your subscription weekly, monthly, or in one lump sum to Local or Provincial Committees or

Send Cheques Payable to Treasurer

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