

# Expert Advice For the Automobile Owner

### Queries and Replies Covering Matters of Importance to the Man Who Runs a Car

Please tell me how to prevent water leaking out of the grease cups at either side of the water pump?

You are using too light a grease in these grease cups, with the result that when the motor gets warm the grease becomes very fluid and allows the water to leak. In hot weather you should use a heavy grease. Probably the hardest that you can buy will be the most satisfactory. However, as soon as cold weather sets in substitute a lighter grease.

On my car a universal joint is used between engine and transmission, this universal consisting of a cross floating in the yokes of clutch and shaft. The assembly, unless kept carefully adjusted, is noisy and does not retain oil for any length of time. Could I substitute a leather universal?

The joint between the engine and gear box is designed to take up any misalignment between the clutch and the gear shift, but it often happens that the gear box drops, throwing the shaft out of alignment to such an extent that the drive becomes noisy, and this is probably the cause of your trouble.

It is doubtful if the fitting of a leather universal would be wise, because, although it would silence the drive, it would take care of the misalignment, the noise which shows that there is a faulty alignment would be gone, and there would be no warning to enable you to know when to correct this. It occasionally happens that a sudden jolt will cause a drop in the level of the gear box due to a looseness in the bolts which hold it in position. This can be remedied by restoring the gear box to its proper alignment.

It is also very probable that the rear axle gears are badly out of adjustment and that the vibration produced as a result of this is transmitted to the joint between the engine and gear box and given off at that point. You should not only have the engine and gear set aligned, but also have the rear axle inspected and the gears readjusted, should it be necessary.

I change the oil in my crank case about every 500 or 600 miles. Would the oil I take out be all right to use in the transmission or would it wear the gears?

It is a good idea to use the oil from the crank case in the gear box. After use for considerable time in the motor the oil takes on a gummy consistency, which renders it unfit for good motor lubrication, but good for use in lubricating the gears in the gear box on account of its tendency to adhere to the gear teeth. It is better to strain it for use in the gear box.

My motor heats too much and the thermo-siphon system does not do its work properly or the heating is caused by another source. I believe my carburetor is adjusted properly, there is no slipping fan belt or loss of compression, but still the engine overheats. As the car has not been run over 3,000 miles the carbon cannot be the cause. Can you explain this?

It is most likely that your trouble is due to driving with the spark retarded too far, although it is impossible to say with certainty that this is so. Try driving your car with the spark advanced as far as possible at all times without the motor knocking.

There are many other things that might cause your motor to overheat, however—carbonized cylinders, poor water circulation, incorrect timing of motor, dragging brakes or possibly excessive friction. Just as you state, it is not likely that the trouble is caused by carbon, but in looking for the cause it is not wise to neglect this possibility, for the reason that motor troubles are often caused by the most unexpected circumstances. Note whether the water is circulating freely, and if not try to find where the trouble is, whether it is due to dirt, loose pieces of rubber obstructing the passages or what not. Remember that with a thermo-siphon system the water will not circulate at all as soon as the level drops below the discharge header in the top of the radiator. Circulation of water in the thermo-siphon system is dependent on the fact that the column of water, considered as such for simplicity, in the pipes and water jackets is lighter than the column in the radiator because it is warmer, and water expands and grows lighter as it is warmed. Therefore if the level of water drops below the outlet pipe circulation must stop. It is well to note whether you have not been running with the water below this point. Or it is possible that you have a slow leak and that in the course of an afternoon enough water leaks out to lower the level enough to stop the circulation, as described.

If there is dirt in the radiator flush it out thoroughly, and if there is any grease in the water wash it with a hot solution of sodium carbonate in water, one handful of carbonate to a gallon of water. See that the rubber hose connections are in good condition. As a last resort check up the valve timing by the marks on the flywheel, and if there are no marks you had better write to the maker for information on this point.

How to Use the Cleansing Coal Oil. How many people really know the value of coal oil in house-keeping? Iron rust and stains of all kinds can be removed from white porcelain tubs and sinks. It will clean and disinfect the toilet cheaper and better than anything else. The windows can be cleaned in the coldest weather with coal oil and a sponge or cloth. Simply use it as you would water, dry with a soft cloth and polish with another. It will take the black off your pots and pans when all other remedies fail. It will remove

The spark lever on my car is very hard to turn, especially when the motor is hot. Where do you think the trouble is, and how can I remedy it?

While this stiffness may be in any of the joints of the linkage operated by the spark lever, it is most likely that the breaker box is too tight a fit, so that when the motor becomes heated the expansion of the part on which it fits causes it to stick. Disconnect the breaker box from the linkage and note whether it moves freely. If it does not, remove it and rub the interior surface with emery paper until enough material has been removed to allow it to work freely.

Is the compressed oxygen method satisfactory for cleaning carbon out of cylinders so that the pistons and valves will be ready to run on oxygen as in ordinary air. Thus carbon will burn with the rapidity of celluloid in an atmosphere of oxygen, yet the incrustated carbon cannot be ignited when exposed to the ordinary atmosphere.

The operation is simple. One of the valve caps and also the spark plug is removed from each cylinder and the piston is brought to top dead center. Then the cylinder is filled with oxygen gas and a piece of cotton waste is dropped into the cylinder and lighted. As long as there is any carbon to be burned oxygen is supplied to the cylinder. The reason that compressed oxygen is used is so that a great quantity of gas can be stored in a container of a given size. The oxygen gas is never used under pressure in the cylinder.

How can I make tire chains last longer?

Upon examination of an old chain it will be found that all the wear and strain are on the link upon which the cross chain is fastened. This cross chain is fastened. When a cross chain wears through and breaks it will be found a good plan to fasten it to the link ahead of the one it was previously fastened to and to continue said operation until all the cross chains have been changed.

Is leakage from cylinder rings into crank case caused from the rings not being worn to fit cylinders or is it faulty rings? Also, when is fuel consumption the greatest, in climbing hills, in high or low gear?

Leakage is most likely due to worn rings, or it may be caused by the split ends of the rings being in line and in this way affording a direct passage for the gases. Before the rings are worn enough to perfectly fit the cylinders there may be a slight amount of leakage—that is to say, the rings will not hold the gas in the combustion chamber quite as well as they will when the rings have become worn to perfectly conform with the shape of the cylinder, but the extra amount of gas is so small that it is hardly worth while to consider it as a leakage.

The fuel consumption is greater when running on low gear for two reasons—the motor efficiency is lower and there is a power loss due to the four extra gears in the gear set that the driving torque must be transmitted through. The motor efficiency is reduced for the reason that when climbing a certain hill on intermediate or low gear that might be climbed on high the throttle opening required for a given speed is less. This means that the actual compression in the cylinder is correspondingly reduced and reduced compression lowers the efficiency. Needless to add, the lower the efficiency the greater the consumption of fuel.

Can gas such as generated from carbide be used in an automobile engine?

Yes. Occasionally we hear of a motorist driving home on acetylene gas when his supply of gasoline is exhausted. The objection to the use of this gas is that it is much more expensive than gasoline. I notice that in the racing events the cars use castor oil as a motor lubricant. What advantages other than less smoke has this oil?

Castor oil has a greater viscosity than any other oil used for motor lubrication at the high temperatures experienced in racing motors; therefore it helps to prevent the passage of the gases past the piston and the flow of the oil up into the combustion chamber, where it would burn and cause smoke. Since very little of the castor oil makes its way up to the combustion chamber there is very little that is burned, but most of it is used for lubrication, with the secondary advantage that much less oil is necessary. It is not advisable to use this oil in everyday work, however, because it causes a heavy carbon deposit.

grease and dirt from your gas range and keep it clean. It will polish nickel and it will take the black off your silver that you don't use constantly with very little of the usual elbow grease. Coal oil will clean your kitchen palates better than anything else and keep your linoleum from cracking.

Romance Versus Reality. For about three months she regards her wedding day as the greatest day in history, but later on she gets so that she regards pay day as the greatest day in history.—Cincinnati Enquirer.



A penny saved is a penny earned.—Benjamin Franklin.

## Economy Hints

It is really a blessing not to have much money to spend for window curtains, because expensive lace curtains are not in especial vogue nowadays, while window nets and sorinas of all sorts that cost not much more than a dollar a yard are the most acceptable sort of window covering.

It should be borne in mind in hanging one's window curtains that the curtains should be placed very close to the window pane. For this reason they hang on a rod of their own placed very close to the window at the top of the sash. The material should be measured carefully, so that it does not reach below the sill, and at the same time it should not be any shorter than the sash. The obvious purpose of the thin glass curtain is to shield those inside the house from outsiders, to soften the light and possibly to hide any unpleasant outlook. This being the case it is obviously absurd to drape it back with cords or loops. If more light is needed use finer net, and if the maximum of light is needed and there is no reason to shield those inside from light then don't have any glass curtain at all.

The long side drape curtains serve quite another purpose. Their purpose is to bring the window into harmony with the interior, to conceal the ugly lines of the window frame and to give tone and character to the room. These side curtains should either extend all the way to the floor or should extend to the bottom of the window sill. They should never be as short as the glass curtain. If they are short there should be some piece of furniture placed below the curtain, as a table, a chair or a fern or other plant.

In the matter of these side drapes there need be no great expense. In a rather formal room they are usually lined. Chintz lined with a harmonized satin is in exceedingly good taste. For bedrooms unlined chintz may be used to advantage. In certain rooms there is nothing more interesting for the side drape than some colored drape net, as green fishnet curtain material or one of the interesting brown silk and linen curtain materials.

Nowadays valances are much in favor, and there is almost a necessity for having a valance over some sort across the top of the window. This may be simply a piece of the side drape about six or eight inches wide run on the curtain pole between the two side pieces or it may be placed on a frame of wood made especially for that purpose which is nailed to the window frame over the side drapery. But there really is nothing too difficult in any of this curtain hanging for any ordinarily ingenious housewife to attempt. Half the battle in being your own interior decorator is in keeping your eyes open. The next thing to do is see a curtain arrangement that suits you study it, and then with the aid of a little patience, a little assistance from the carpenter, scissors, needle and thread, hammer and nails you or any other woman can do wonders in hanging curtains.

INDOOR GARDENING HINT. How to Have an Indoor Garden in Winter Time.

The culture of plants in plain water is an interesting feature of the indoor garden. This is a much more extensive matter than most persons imagine, and the scope of the garden without soil is quite surprising. Those who are very limited may be interested in seeing their hands at what can be accomplished without difficulty in this direction. One of the most refreshing sights to the town dweller in midwinter is the vivid green of grass. Any kind of grass seed will germinate freely when it is kept moist in a warm room, and this habit may be turned to account in the soilless garden. A very peculiar way of growing the grass seed is to obtain an old sponge. This should be thoroughly moist and some means of hanging it up must be adopted. The seed is sprinkled thickly over the surface, and for about two days the sponge is kept in the dark. This hastens the business of germination. Then hang the sponge up in a light, warm room, turning it about daily so that all sides obtain an equal amount of illumination. In a few days it will be a mass of greenery which will be an altogether delightful sight on a dull day.

WEDDING GIFTS. How to Make the Hearts Glad of Newlyweds by Appropriate Presents.

Summer brides are almost as numerous as summer flowers. What to give the future newlyweds is the question agitating many a mind at present. There are so many things suitable for wedding gifts that there should be no difficulty in choosing useful presents if the donors only spend a little thought and care in their selection. The first point to be considered in buying a wedding present is the future and present means and station of the bride. Does she come from a family that is amply able to furnish all her needs for the new home? Is she to marry a man of money who can provide his home with the finest things on the market or, on the contrary, does the girl come from a family of limited means to marry a man in practically the same circumstances?

You would buy entirely different articles for the latter than you would for the former. The girl who either has plenty of money or is marrying money is usually given personal gifts, such things as jewelry or wearables, or else extra luxuries for her home, such as single silver spoons or serving forks or set pieces or handsome bits of china. On the contrary, the girl of moderate means who expects to furnish her new home a little at a time is only too grateful to have her friends help furnish it with their presents. If you are buying a wedding gift for a bride of limited means don't give her a pretty but foolish vase or a dainty but useless bit of pottery. Help her by giving something she can use and is only too glad to have. For instance, a pretty luncheon set need not be a very expensive gift. Then there are sets of long strips in flowered or figured linen to be used for little home dinners or for lunch. China sets are always useful and welcome, and if the buyer's purse is limited there are simple but dainty tea, coffee or breakfast sets to be had at fairly low prices.

For the donor who cannot pay more than \$10 or perhaps less there are many things which will be acceptable. One bit of advice to buyers of wedding gifts is this—do not buy any pictures, for your taste in pictures may be quite different from the bride's.

Lamps are lovely presents and can be found for as low as \$3. The donor of a lamp need not fear duplication, because the bride can use many lamps in her home, but the buyer must be sure to find out whether gas or electricity is to be used in the new house. Covers for tables can be had at \$2 or \$3 each and very dainty ones too. An acceptable gift for any pair of newlyweds is a set of Pos, Dickens or other classic master.

Any presents in silverware or pretty glassware are acceptable and useful. Then there are many things for bedroom usage. Bureau, window and bed sets in dainty mull of white and pink or blue are as welcome as can be. Toilet articles, manucure sets or mirror, brush and comb are always acceptable. All these things are well within the means of almost any buyer. More expensive gifts are lovely rugs, beautiful cushions, linen bed sets, etc. Such gifts as these can be duplicated or tripled without fear.

How and Why to Use Crepe de Chine For Underclothing. Crepe de chine as a material for underclothes is thoroughly established. The charming, almost untrimmed models in the heavy quality, which have been seen recently, are giving way to the lighter weights, lace trimmed or ribbon run, which are more appropriate to the warmer weather. Untrimmed garments in this weight are also procurable for those who have adopted the simple line in lingerie, which the pussy willow taffeta, requiring no ornamentation beyond its beautiful self, first taught us to like. Advocates of crepe de chine for summer wear, and there are many, extol its uncrushable qualities. It is well to remember, in buying

silken undergarments, that a flesh color or pink is preferable to white, as washing only makes it prettier, while the white is almost sure to become yellow with continued trips to the laundry.

Lovely as the silken materials undoubtedly are, practical as they have shown themselves, there are women, after all, for whom linen remains the material par excellence for underclothes.

How to Orientalize a White Silk Faille Suit. One of the prettiest ideas in linings seen for months is that which gives to a suit of white silk faille a Chinese atmosphere. The coat is so made that it may be worn open without having a slovenly appearance, and so the pretty lining peeps out and captivates all who spy it. The lining is a soft, heavy wash silk of white ground, with the famous "willow" plate pattern upon it in Chinese blue. One has to see it to realize the charming effect obtained. No note of blue appears otherwise upon the suit.

Catty Comment. "When I have anything to occupy my time, I hate to have a lot of foolish men hanging around me." "You are never idle, are you, dear?"—Baltimore American.

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