

# HINTS FOR THE MOTORIST

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## Evils Of Unequalized Brakes

**One-Sided Braking Is The Commonest Cause Of Skidding**  
BRAKES WHICH ACT more powerfully on one side of a car than on the other, are not only potentially dangerous, but are uneconomical. The utmost retarding effect from a pair of brakes is obtained when they are both applied as forcibly as possible, on the road, its retarding power is reduced and, on the other hand, a brake which cannot be applied forcibly enough to bring its wheel up to the locking point, is not giving maximum results. Clearly then, the two brakes must take hold equally or the utmost total stopping power will not be obtained.

**Tires Overloaded By Excessive Braking Duty**  
With unequalized brakes, when a sudden stop has to be made, one of the wheels is always certain to lock before the other does and usually before the desired retarding effect is realized. This wheel will slip and in so doing its tire-tread will rapidly be worn down, with the result that the fabric will be laid bare in spots, where it will deteriorate and finally blow out. The extra stresses on the particular tire, which is doing a disproportionate share of the braking, also tend to bring about its premature failure.

**Effect On Band Linings**  
If one brake is doing the "lion's share" of the retardation, its band lining wears out at an excessive rate, adjustment will be required at unduly frequent intervals, and renewal will be necessary all too soon. The most reliable and economical service from brake linings is secured when they wear out equally and both have to be replaced at the same time.

**Danger Of Side Slip**  
But the really vital objection to unequal action of a pair of brakes is the skidding danger involved. The effect of one brake setting powerfully and the other hardly at all is like that which would be produced by forcibly pulling back on the former side of the car. It tends to turn the car around and if the road is slippery, it does so, often with most disastrous results.

## HEADLIGHT BULBS BURN OUT



G. F. writes: I am having trouble with the burning out of headlight bulbs on my car, both of them giving out at the same time. The generator is charging at about 8 to 10 amperes. I have examined the wiring for short-circuits, but can find none. What do you think is wrong?

Answer: Too high generator voltage, probably caused by abnormally high resistance somewhere in the charging circuit, is the most likely occasion for this trouble. You better make sure that there is sufficient liquid in each of the cells that both battery-cable clamps are tight and that their contact surfaces are perfectly clean and that the connections at the ammeter and elsewhere between the generator and battery are not loose or dirty. The recommended charging current for this car is 15 amperes at a 25 m. p. h. speed and the fact that your generator is passing but 10 amperes, rather indicates that there is too much resistance in the charging circuit. Short-circuited

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A hot running auto engine should use heavy oil for the best results, the kind of work it does and all this when it is heated. An engine runs hot or cool according to the kind of work it does and the way it is designed.

## Too Involatile Non-Freezeants

Their Use Involves Danger Of Overheating

ONE DISADVANTAGE OF ALCOHOL as a non-freezeant is that it boils and is lost as vapor at a temperature lower than that at which gasoline engine cylinders can be operated most efficiently. A corresponding advantage of glycerine mixtures, calcium chloride solutions and even of kerosene and other oils is that they do not boil and vaporize enough at temperatures high enough to insure excellent engine efficiency. An engine with alcohol mixture in its jackets necessarily has to be run cooler and less economically than as if water were in use, while if glycerine mixture is the liquid employed, it can be run hotter and somewhat more efficiently than it could be with water in use. However, there is danger of overheating if an anti-freezeant is used, which boils at too high a temperature, there is danger of decomposed lubricating oil, scored cylinders, burned bearings and pre-ignition of fuel charges, as well as a possibility of melted radiator solder. For example, if one were to use straight glycerine, which boils at about 500°, the above mentioned difficulties would develop and similar, but worse consequences are possible in the use of kerosene and other oils, if the temperature is not carefully watched. Another fact of significance is that water rises in temperature the least of all liquids, upon the application of a given amount of heat, or in other words all other liquids "heat up" faster than water does.

## MAIN BEARING ADJUSTMENT NEEDS A COLD-RESISTING OIL



C. B. C. asks: Should the main bearings of the engine of a car need taking up after only 7,000 miles of service? My mechanic says that one of the main bearings of my engine is loose, although he cannot tell which one and I think that I can detect a slight bearing knock, myself, but it is my impression that an engine which has been as carefully run as mine should go much more than 7,000 miles without requiring adjustments of this kind.

Answer: We agree with you that, so far as normal wear is concerned, any good engine should give a much longer service than this, without requiring adjustment of the main bearings. However, if abnormal wear occurs, readjustment may be required at a much less mileage than this. Any failure of the oil supply or the use of dirty oil are examples of causes of abnormal wear and if this engine has ever been run without oil or with the oil pipe broken, excessive bearing wear would be expected. It is possible that the knock which you hear is from some other cause than loose main bearings and we suggest that you have a most careful examination made before assuming that this defect is present. Ordinarily main bearing knocks are most pronounced when the engine is pulling its hardest at low speed, as in hard hill climbing.



O. T. B. writes: The engine of my Ford turns over so stiffly when it is to be started from a cold condition, that I have to resort to jacking up a rear wheel and effecting starting in this way. The clutch is in correct adjustment and I am using light oil. When cold, it seems as if the moving parts were frozen or glued together, but after it has been run for a time, the starting crank turns easily. How can this trouble be overcome?

Answer: Your difficulty can probably be much reduced by shifting to some other brand of oil, which will withstand low temperature with less stiffening. We suggest that you obtain samples of various reputable makes of light oil, which are claimed to pour readily at temperatures not far above zero. Expose these samples along with a sample of your present oil to the cold, see which stiffens the least and try using that particular brand. You can probably find a lubricant that will ordinarily remain thin enough, so that clutch discs will not drag and piston friction will remain reasonable, even in pretty cold weather.

## BRITTLE CELLULOID

O. F. B. asks: How can transparent celluloid, in side curtains, be made more pliable, so that it will not break so easily?

Answer: There is no way of accomplishing this, so far as we know.

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## DO NOT BURN OUT BRAKES DOWN HILL

On a long decline fast driving with the brakes engaged will quickly burn up and wear out the best brakes. Drive in second gear on long grades and add thousands of miles to the life of brakes, and have the car under better control. When stopping, instead of clamping the brakes on with the car under full speed, disengage the clutch and let the car slow up perceptibly before applying the brakes. This will save brakes, tires and rear axle assembly from the strain of abrupt brake application. When driving through heavy rain-storms or splashing puddles, test foot brakes frequently to see that they stay dry. When wet, they may fail in an emergency. On the grade, alternate between foot and emergency brakes, rather than leaving the foot brakes on long enough to overheat. Use brakes only when necessary and do not permit overheating.

## Kingston Markets

Friday, Sept. 17.

- Butter, creamery, lb. .... 40-42
- Butter, dairy, lb. .... 35
- Cheese, new, lb. .... 35
- Cheese, old, lb. .... 35
- Eggs, new laid, doz. .... 35-42

## Fish

- Cod, lb. .... 15
- Fillets, lb. .... 25
- Finnan Haddock, lb. .... 20
- White Fish, lb. .... 25
- Haddock, fresh, lb. .... 15
- Halibut, frozen, lb. .... 35
- Kippers, pair. .... 20
- Fluke, lb. .... 15
- Sagehen, salmon, fresh lb. .... 50
- Trout, salmon, lb. .... 25
- White fillets, lb. .... 25
- Mackerel, lb. .... 15
- Pickeral, lb. .... 25

## Fruit

- Bananas, doz. .... 40-50
- Oranges, doz. .... 40-75
- Lemons, doz. .... 50
- Prunes, Cal., lb. .... 10-25
- Peaches, Evap., lb. .... 20

## Hay, Grains, Seeds

- Barley, lb. .... \$1.00
- Bran, ton. .... \$80
- Buckwheat, bus. .... \$1.00
- Corn, imported, lb. .... \$1.00
- Cream of the West, lb. .... \$4.50
- Hay, baled, ton. .... \$14
- Hay, loose, ton. .... \$10
- Household, lb. .... \$4.50
- Oats, local, bus. .... 60
- Middings, ton. .... \$40
- Straw, ton. .... \$5.00-\$6.00
- Wheat, ton. .... \$22
- Wheat, local, lb. .... \$1.50
- Timothy, bus. .... \$5.00
- Red Clover, No. 1, bus. .... \$16
- Red Clover, No. 2, bus. .... \$14
- Alfalfa, bus. .... \$12-\$14
- Alfalfa, Can. 2, lb. .... \$12
- Sweet Clover, lb. .... \$5.00

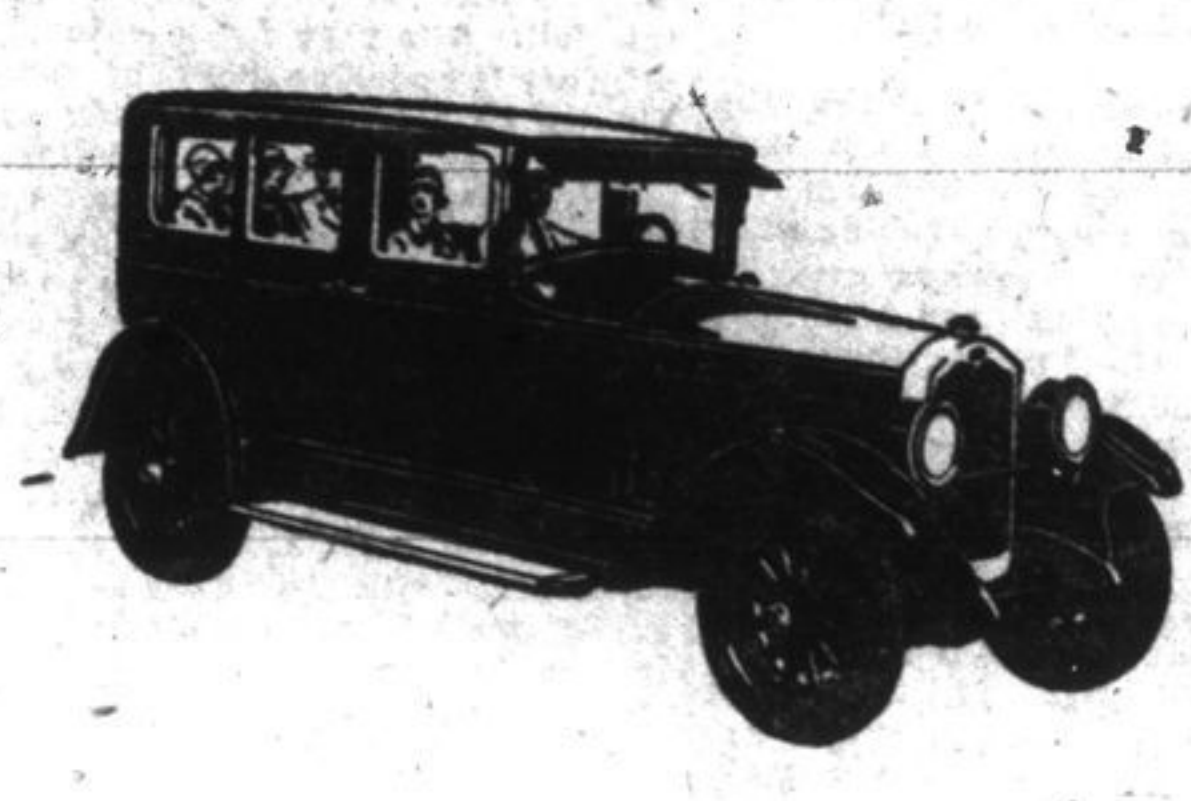
## Hides, etc.

- Deacon skins, each. .... 55-75
- Horse hides, up to 52.50
- Beef hides, lb. .... 6 to 8
- Bulls, over 40 lb. .... 4
- Veal, skins, lb. .... 10
- Veal, kips, lb. .... 7
- Fresh lambs, lb. .... 75
- Tallow, rendered in cakes, lb. 6 1/2
- Ginseng, wild, lb. .... \$11
- Bees wax, clear, lb. .... 28
- Wool, unwashed, lb. .... 20-22
- Wool, washed, lb. .... 26-27

## Meats and Poultry

- Steak, porterhouse, lb. .... 35
- Steak, round, lb. .... 35
- Bolling cut, lb. .... 15-18
- Stewing cuts, lb. .... 10-12 1/2
- Beef, western, lb. .... 14
- Beef, local, lb. .... 8-10
- Loin, roasts, lb. .... 25-30
- Shoulders, roasts, lb. .... 25
- Pigs, live weight, cwt. .... 12
- Chops, lb. .... 30-35
- Front, lb. .... 22-25
- Hinds, lb. .... 26-27
- Hogs, dressed, cwt. .... 20-21
- Bacon, breakfast, sliced, lb. .... 45-50
- Bacon, cuts, lb. .... 40-42
- Mutton:
  - Hinds, lb. .... 20

# for the first time! absence of closed car rumble



You never have driven a car so quiet and free from the vibration that causes closed car rumble as the 1927 McLaughlin-Buick.

Electricity might be its motive power, so effortless is the power-flow and change of pace.

Interior noise is gone from McLaughlin-Buick closed car interiors. The new McLaughlin-Buick engine is vibrationless beyond all previous experience, at every speed!

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RECENT improvements in the Speed Wagon add materially to its appearance, its comfort for all-day driving, and to the safety with which it is operated.

These improvements include greater length, the addition of a cowl, a new cab and a newly designed steering mechanism along with a score of other advantageous features.

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## To All Motor Users

### A Timely Request for Co-operation Avoid Overloads—Don't Speed

FALL rains soften the subgrade and decrease its resisting power. Exercise judgment in loading and use extreme care in operating your trucks.

Overloaded trucks—especially when driven fast—tear the very heart out of even hard-surfaced roads. Foundations are weakened. Disintegration follows, and then comes the road repair force, who of necessity make your transportation more difficult, while you have created an unnecessarily large repair bill.

While the Provincial Highway Department and the municipal authorities make these repairs, don't forget that you and your neighbors will foot the bill eventually, through taxes. It is to your interest to be public-spirited in this matter—to co-operate sincerely.

The Government believes that the majority of truck owners and drivers will avoid overloading and will refrain from speeding. Others will be given an opportunity to explain as the law will be rigorously enforced.

THE HON. GEO. S. HENRY Minister of Highways S. L. SQUIRE Deputy Minister

Issued by the Ontario Department of Highways to secure the co-operation of motorists and truck operators, Automobile Clubs, Good Roads Associations and all other public spirited bodies, in abating the abuse of the roads of the Province.

## CO-OPERATION MEANS CONSERVATION

- Mutton, chops, lb. .... 20-25
- Mutton, carcass, lb. .... 15
- Chicken, lb. .... 25-30
- Pew, lb. .... 25
- Turkey, lb. .... 40-45
- Yeast, lb. .... 10-15
- Carcass, lb. .... 10-15
- Hinds, lb. .... 15-20
- Front, lb. .... 8-10
- Catlets, lb. .... 25
- Spring Lamb:
  - Spring lamb, fronts lb. .... 25-30
  - Spring lamb, carcass lb. .... 23-25
  - Spring lamb, hinds, lb. .... 35-40

Vegetables.  
New potatoes, bus. .... 1.25-1.40  
Cabbage, head .... 7-10  
Carrots, bunch .... 50  
The astronomical day begins at noon, the civil day at midnight.