

AUTO SENSE

BROKEN BRAKE RODS

By WILLIAMSON



The principal purpose of the hand or emergency brake is to hold the car when it is stopped, but you are also expected to keep it so adjusted as to bring the car to a quick stop in an emergency. It was never intended to be set when the car is moving, especially over a rough road. If the brake is set tight enough to take all the slack in the brake shoe, you can see after consulting Doc's sketch, why something is likely to snap if the rear wheels hit a bump.

If you are forced to use this brake to hold a car back on a steep hill, keep your thumb on the release button and hold the brake back. If the rod is subjected to a strain you will catch it in your arm and save the brake rod. However, if you are going down a steep hill you should shift into second speed or even into low and let the compression in the cylinders hold you back. It is a safety measure and should something happen to your brakes on a steep hill you will wish that you had taken time to shift gears at the top of the grade.

Back to  
**Stonewall Jackson Cigar**

The old time favorite at the old time price

Manufactured by General Cigar Company Limited,  
IMPERIAL TOBACCO COMPANY OF CANADA LIMITED, Sole Distributors.

**YOU BUY WHEN!**  
The exceptional tone quality in the Weber Piano appeals to the most aesthetic taste.  
HEAR FOR YOURSELF AND BE CONVINCED.  
AT C. W. LINDSAY'S Warerooms,  
Princess Street

Prompt, Courteous Service  
299-305 Queen **FROST'S** Phone 526  
SELECT AUTOMOBILE PAINTING

**Auto Tops and Seats Recovered**  
Side Curtains,  
All Kinds of Bevelled Glass Lights  
**R. SINCLAIR**  
380 BARRIE STREET  
PHONE 1884.

**AUTO TOPS**  
New and Repaired Cushions  
SIDE CURTAINS.  
Also  
FURNITURE UPHOLSTERING  
**I. G. PAUL**  
382 Princess Street  
Phone 1840F.

**We Can Re grind Your Cylinders**  
square with the base round and true with a heavy duty cylinder grinding machine, giving perfect work in every respect.  
**Automotive Grinders Limited**  
285 Wellington Street

**CANADIAN PACIFIC CRUISES**  
**WORLD**  
EMPERESS OF FRANCE, Jan. 14  
**MEDITERRANEAN**  
EMPERESS OF SCOTLAND, Feb. 9  
**WEST INDIES**  
MONTROYAL, Jan. 20 Feb. 21

Membership limited for each cruise. Canadian Pacific management afloat and ashore. Each ship a gigantic private yacht with all the luxury and comfort of a modern hotel — at your disposal. These will be extraordinary cruises next winter and reservations should be made early.

Beautifully illustrated booklets with fullest information on application to any Steamship Agents.

Regular services to Liverpool, Glasgow, Belfast, Southampton, Cherbourg, Antwerp and Hamburg — sailings almost daily.

Fortnightly sailings Vancouver to the Orient — the Emperesses of the Pacific.

Apply to Local Agents  
J. E. PARKER  
Gen. Agents, Pass. Dept.  
C.P.R. Building, Toronto  
Adelaide 2193.

**HINTS FOR THE MOTORIST**  
By ALBERT L. CLOUGH

**Nominal And Brake Horsepower**  
They Seem To Be At Variance With Each Other

WHEN ONE FILLS OUT the application for his car's registration, he may find that the instruction book says that the figure to be inserted on the card is 17 horsepower, but when he reads this manufacturer's advertisement he learns that his engine is capable of developing 33 horsepower or more than twice the nominal or rated power. This is confusing, but the distinction between the two kinds of horsepower is simple after all. The horsepower of an engine of a certain cylinder bore and number of cylinders can reasonably be expected to deliver when running fast enough so that each of its pistons travels 1000 feet each minute. On the other hand, the actual maximum horsepower, some times spoken of as the brake or dynamometer horsepower, is the name of the measuring device, is the horsepower which an engine can actually develop, when it is being run as fast as safety permits or at a speed beyond which there will be such a falling off in pulling power as to cause no increase in the work done. This limiting speed is often three times that arbitrarily chosen as the basis for the rating formula and as the work done by a gasoline engine increases with its speed, through a rather wide range, it is not strange that the actual horsepower is frequently as high as 'two-and-one-half times the rated or nominal horsepower. The rating formula was adopted long ago, before very low figures as compared with modern performance.



**VALVE GRINDING QUERY**  
S. C. asks: Is it necessary to have all the valves of an engine ground every time that any of them begin to be leaky?

Answer: Not necessarily. In general, exhaust valves require grinding several times to one re-grinding of the inlets, because the former are subjected to the action of intensely heated gases and the latter pass only the cool mixture from the carburetor. However, whenever the cylinder-head is off, it is well enough to have the inlets inspected, as to their seatings. Very often on an exhaust-valve grinding job, certain of them need practically no attention while others require considerable, but whenever the valves are accessible, it pays to have them all looked over even if most of them, especially the inlets, are found to be all right.

the carburetor is correctly adjusted. Answer: It may be that your low-speed band is too tightly adjusted and drag, placing a continuous abnormal load on the engine, when high-gear is engaged. When you are driving on low-gear, this friction loss is absent. Put your car in neutral and see if it pushes about readily in the garage. If not, quite likely you may find that this is because of a dragging transmission band. You do not speak of your high-gear clutch slipping, but if it does it would account for over-heat when on high-gear. We presume that your fan belt is tight enough to secure positive fan action.



**DRY STEERING WORM**  
W. D. writes: When I turn the steering wheel of my car, especially when I am cutting the car around sharply and it is moving slowly, I can feel and hear a sort of a "grind," that seems to come from the hand wheel. Everything seems to be tight and in order, but the wheel turns a bit hard perhaps. Where does this "grind" come from?

Answer: Most likely the worm and worm gear, in the housing at the bottom of your steering-column lack lubrication and the grind comes from their dry action. You will find a plug in this housing, which, when removed, will permit you to force grease onto the worm gearing by means of a gun. It should be supplied until the housing will receive no more. There is also a grease-cup near the top of the housing, which lubricates the thrust-bearing, and this should be filled and turned down until grease begins to ooze out above the bearing.



**DRAGGING TRANSMISSION BAND**  
V. G. McN. writes: The water of my Ford car boils after I have run two or three miles in high-gear, and for some reason or other, it seems to boil sooner with the car in high than with it in low gear. How do you account for this? The radiator has been cleaned, fresh engine oil has been applied and

Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. If an immediate answer is desired, enclose self-addressed, stamped envelope.

**Know Canada!**  
"Stop the photos, make the world of Canada, land of your birth!"

THE NATIONAL Inland Toronto every night at 10.45 through famous lake regions in the Highlands of Ontario via the new and picturesque Langhe Route to Winnipeg and Western Canada.

Standard and Tourist Sleeping Cars—Comfort, Observation and Dining Cars. Colonial Cars with lunch counter and kitchen.

Through Sleeping Car, Toronto-Sudbury

AT 8.45 every night a through sleeping car leaves Toronto passing through the world-renowned mining districts of Northern Ontario, connecting with the Continental Limited for Western Canada and all Pacific Coast ports.

Visit Jasper National Park in the Heart of the Rockies

Very low fares to this "World's Largest Game Sanctuary" and the Pacific Coast still in effect valid to return until October 31st.

Triangle Tour—The Finest Trip in America

1,800 miles of rail and ocean travel round trip—Jasper National Park to Prince Rupert, 3 days by boat through inland seas to Vancouver, by rail to Mount Nelson and Jasper National Park.

Reservations and complete information from J. P. Emsley, C.P. & T.A., cor. Johnson and Ontario Streets, Kingston, Ont. Phone 39 or 1423.



**HENRY FORD PLAYED "LEAD"**  
President Coolidge knows how movies are made now. Thomas Edison, who with Henry Ford and Harvey Firestone dropped down to the president's father's farm near Plymouth, Vt., the other day, showed him all about it. The flivver king played the leading role in the one-real comedy the electrical wizard shot. But there's little likelihood it ever will be shown in your neighborhood theatre.

RECEIVED MANY GIFTS.

**Elgin Bride-Elect Remembered By Her Friends.**  
Elgin, Aug. 26.—Miss Grace Stanton entertained in honor of her friend, Miss Lola Judson, whose wedding takes place the 3rd September. A most delightful afternoon was spent by the young people. The young bride to be received many beautiful and useful gifts from her many friends.

Mr. and Mrs. Robert Mustard left for a two-week trip to New York city. Dr. Berliner and family, New York, were callers on friends. William Flemming spent a few days at his home. Mrs. G. W. Earl is visiting relatives at Scottsville, N.Y.

Mrs. (Rev.) Sanderson is taking her holidays at Standstead, Que. Donald D. Coon left this week to attend the Sherbrooke fall fair. Mr. and Mrs. Albert Bryden spent Sunday at Crosby. A general rally is being made on field day, Aug. 27th, to wipe off the debt on the remodelled town hall.

Miss Grace Delong, Toronto, is guest of her parents, Mr. and Mrs. J. G. Delong. Miss Mildred Coon is spending a few days at her home before returning to Ottawa. Miss Marlon will accompany her to continue her studies. Mr. and Mrs. L. C. Ripley, Kingston, were guests of relatives.



**Canadian National Exhibition**  
AUG. 23 Toronto SEPT. 6

More comprehensive; more ambitious than ever—depleting the picturesque, the artistic and typical life of Canada and other lands.

**"Marching On"**  
Gorgeous spectacle portraying the might, romance and grandeur of the British Empire. All the amusement devices known to the ingenuity of man.

ONE HUNDRED EXHIBITIONS IN ONE.  
Consult your Agent for Reduced Railroad Rates.  
ROBERT MILLER, President. JOHN G. KENT, Managing Director.

Shipping Out Cattle.  
Toronto, Mr. and Mrs. A. Gibson, Sharbot Lake, spent Sunday with Mr. and Mrs. Robert Gibson. Mr. and Mrs. E. Olmstead, Miss Mary Olmstead and William Dowell spent Sunday with relatives at Sharbot Lake. J. Miller, Snow Road, shipped a carload of cattle here to Toronto last Saturday.

**You Can Quit Shopping for Tires**

THE Goodyear Selected Dealer offers you all the choice you could possibly want in tires. He represents the complete Goodyear line. No matter what price you want to pay—whether you want the world-famous All-Weather Cord with its long mileage and supreme road-grip, or the Wingfoot Cord second only to the All-Weather in road-grip but lower in price, or if you want to invest still less in your car and use fabric tires—the Goodyear Selected Dealer offers you Goodyear quality and Goodyear value in a complete range.

He is one of 2500 dealers selected from the 10,000 in Canada as best able to sell tires at a small margin of profit and yet give valuable service. Get to know him.

Goodyear means Good Wear

**GOODYEAR**  
MADE IN CANADA

GOODYEAR TIRES FOR SALE AT  
VANLUVEN BROS. 34 Princess St.

**HEMLOCK PARK STOCK FARM**  
A. H. FAIR, Sole Proprietor.

Clean, pure milk from healthy cows. Not pasteurized or sterilized in any way.

Herd Tuberculin tested. Purveyors to the Kingston General Hospital, an institution which only buys the best.

Health of attendants, Sanitation, Sterilization, etc., under the personal supervision of Dr. Miller, Professor of Pathology, Queen's University.

We guarantee that every bottle is from our own stable. Delivery to all parts of the city.

TELEPHONE 1105 R-3. HEMLOCK PARK STOCK FARM