In the Automobile World

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Hydraulic Brake Suggestions

THE FOLLOWING HINTS are intended for the guidance of the large number of motorists, who are now using cars with this type of brakes and who have previously dealt only with mechanically applied brakes. They are supplementary to suggestions offered in an article published in October, 1924.

Band Adjustment

In this braking system, the conventional toggle action for contracting the brake hand is not used, each end of the band being tightened by an individual actuating lever, moved independently by a piston in the brake-wheel cylinder. Each end of the band is therefore set to correct clearance, by its own adjusting nut, after the anchor adjustingscrew has been turned to give proper band clearance at that point. If uniform distance between band and drum is not thus obtained, reshaping the band should accomplish it. The anchorage of the band should be kept well lubricated as complete freedom of the band is required to return it to released position and to send all oil back to the master

Clean Linings To Correct Unequalization

With this type of brake, the forces acting on each end of each pair of bands are automatically equalized, by virtue of the hydraulic principle, and if the two bands have equal clearances, they will be contracted with equal force, so that they will have the same retarding power if their linings have equal frictional effect. Any difference in effectiveness between the brakes of a pair case therefore usually be eliminated by soaking the bands in gasoline and brushing the fabric until all glaze and oil have been removed and the lining surface restored to its normal condition. Different makes of brake lining vary somewhat in their frictional qualities and, if it becomes necessary to have one band relined, it is advisable to have its mate relined at the same time. In any event, exactly the same quality and thickness of fabric should be in use on all the bands.

Loss Of Liquid Entails Reduced Braking Power

The pedal and its connected rod is independent of the mustercylinder piston-rod, which it operates, and there should normally be a clearance of one-sixteenth inch between the stop-nut on the pedal-rod and the end of the piston rod, when the pedal is released. More than this indicates that liquid has escaped from the system and that the master-cylinder does not fully fill when the brakes are let off. If loss of liquid goes too far, considerable pedal movement takes place before the brakes begin to act and full movement may be had without full braking effect being realized. Lost liquid must be compensated for before serious loss of braking power is thus brought about.

ALCOHOL EVAPORATES TOO



G. A. writes: This winter I ar losing much more alcohol from the cooling system of my car than i. previous winters. There cannot he any leakage, as I have watched for drippings and found none, even afte the car has stood overnight. Al though my car is being used for very short runs only, I can smel alcohol strongly almost every time I use it. How can I stop this rapi-

Answer: You might add a small proportion of glycerine to your antifreeze mixture, say one to two pase the cooling system is filled quarts. This should reduce the rate with a liquid which has a boiling of evaporation. If you use and means for shielding the radiator gine would become overheated. front, remove it as soon as you such as water, alcohol-mixture or start your engine. In case you: glycerine properly diluted with cooling system includes a thermo- water.

platic-valve, see that it is working properly. Perhaps the cooling waer circulation is obstructed somewhat by clogged radiator passages. defective hose connections or an inoperative pump. You better make sure that circulation is normally free. Possibly your antifreeze mixture is unnecessarily rich in alcohol. Very strong alcohol mixtures boil at low temperatures. Perhaps s lower alcohol percentage and a ertain proportion of glycerine will vaste away less rapidly than the nixture you are using and still give dequate protection.

DISPENSING WITH THE FAN

W. F. W. asks: Is it very harm-'ul to an engine to run with the in-belt off in this cold weather? Answer: No harm will result som doing this, unless so much of he liquid in the cooling system is hereby boiled away, that circulaion can no longer continue and the engine thus becomes overheated. The above is true, however, only in point below that at which the en-

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.

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The present vogue expressed by "Lacking the immensity of the chemists and color specialists were ly large. followed by months of creative ef- "The figures show, in addition, fort on the part of body designers, that a vast majority of pleasure

Duco and its greater adaptability to camped in the Federal and State production in many colors have parks have been automobilists. They made the new color programme furnish another exemplification of practical; and the physical equip- the dividends in health that the moment for its application is already tor car is paying. Of the more than provided.

each of its body types and styles.

Gyratory System.

At five of the busiest places in the giant city the gyratory system has dency to build holidays about the been introduced: Aldwych, Parliament Square, Hyde Park Corner, Trafalgar Square and Piccanny Circus.

Under the old system vehicles wre allowed to come into these places from all points. Now they have to go clockwise, circling around always to the left. In order to get out of the squares, certain exit streets have been made into one way

One of the main streets that enter Piccadilly Circus is Piccadilly and here the New York idea of signal lights is being introduced. Under this, traffic in Piccadilly will be

synchronized. How the gyratory system works is best illustrated by figures about Trafalgar Square Over 50,000 vehicles move through this place in ably tanned and healthy-outstand-12 hours. Under the gyratory sys- ing examples of the vast benefit that tem this huge volume of traffic is the automobile imports to its dequarters of a minute delay. Four minutes used to be a common

It has been found, however, that an extensive system of signal lights crankcases is to be used by the Florito synchronize the movement of traf- da Board of Health to combat mosfic. will be impossible here because quitoes. The oil will be used to there are few streets where long saturate sacks of mixed sawdust and straight vistas are obtainable.

Light to Open Garage. Experiments are being conducted on a device which will automatically open garage doors when the light from auto headlights shine on the for every 385 inhabitants. Animal doors. This will make it unneces- drawn vehicles and bicycles consary for motorists to leave their car tinue their popularity in Mexican to open the garage.

NATURAL BEAUTY OF AMERICA UNRIVALLED

Reo Company Outlines Advantages of Touring One's Own Country by Motor.

Though the number of Americans who visit Europe each year is tremendous and perhaps increasing, Car Can Match Her official figures are convincing of the growing appreciation of the beauty spots that have been set apart by Federal and State Governments in all sections of the United States. A. motor car in milady's favorite Particularly is this true of the Nagown from Paris or Fifth avenue, tional parks in the west-Yellowcolor, or one to match her new stone, Glacier and the others-which once considered a dream beyond the attracted in 1925 the greatest pale of accomplishment, has to-day throngs ever recorded and which are come to be a reality. And it is said gradually proving to Americans that richly endowed with natural won-

sons of the coming year-colors is nothing comparable in grandeur exactly copied from precious stones with the Grand Canyon of the Yelsuch as the sapphire, the tepaz, the lowstone; no more curious manifesgarnet, the aquamarine and contrasts tation of Nature's whim than the of colors created by leading manu- spouting geysers, and the Alps themfacturers of the finest silks have all selves are outmatched by the towerfigured in the preparation of one ing Rockies," says a report to the manufacturer's five hundred color Reo Motor Car Company. "In that reembinoations and are just as econ- gion may be found dozens of lakes omically practical, it is stated, as the as beautiful as Lucerne, but their exercise of good taste in selecting a blue loveliness has just begun to pleasing ensemble of gown, hat, make its appeal to the seekers of Nature's jewels.

a free use of color in both women's group of Federal parks, but in many and men's apparel, and by artists respects equally beautiful, are the in their paintings and in decorative State parks to be found in nearly schemes has been the immediate every commonwealth. New York incentive which initiated the new state, with the Adirondacks and Catcolor programme one year ago. skills, is particularly rich in this re-There were trips to Paris, and to spect, and with its tremendous popthe mills and laboratories of lead-ulation, the volume of vacationists ing silk manufacturers. Consulta- and more transient visitors to the tions held with leading artists, state-owned playgrounds is extreme-

The beauty and permanence of seekers who have visited, toured and 20,000,000 cars registered in the To further encourage variety and United States, it is a safe computato keep its color schemes always tion that at least half the number fresh and new, one company's regu- play some part in the annual vacalar production plans include the in- tion scheme, while at some time troduction once each month of an during the summer months nearly entirely new color combination on all furnish week-end transportation at least once. On this basis it would be difficult to estimate the number of millions who have enjoyed life in the open through the growing ten-

> "Disease and the open air are even less congenial than oil and water. Therefore, in impelling the mass of Americans to play and to live as much as possible in the great outdoors the motor car is proving itself a tremendous factor in the general health of the people.

"From month to month at the Reo factory in Lansing, there is an opportunity to judge; in some measure, at least, the great increase in touring. Particularly during the summer months there are thousands of visitors to inspect the plants and these come from all sections of the country, and even from foreign countries, and the totals each year are larger than in the corresponding months of the previous year. Old

Oil Kills Skeeters. Waste oil taken from automobile sand which will be planted in bodies of water where mosquitoes propa-

Few Autos in Mexico. In Mexico there is one automobile

adventures! OG PHG PWINGS 5 Olive Roberts Barton

dy Gander as he and the Twins rode are so poor!" along through the sky on his magic "Common sense," said Daddy Gandust-pan, "is to go to the top of the der soundly. "And good advice! highest mountain in the world. Thank up, Tin Rooster. Giddap!" Then we can look down and see he said to his magic dust-pan. everything. It shouldn't be a mite The magic dust-pan left the barnof trouble for us to see the House roof and floated down to the barn-That Jack Built."

It was the tin rooster on the barn turkeys and geese. "We have some-

that was speaking, much to their thing very special to ask." surprise. The rooster was speaking "He's gone!" cried Higgledy -not the barn !

Daddy Gander stopped his magic gone also."

dust-pan then and there and told the tin rooster all about it. whirling about to north, then to said Higgledy Piggledy. east, then to south, then to west in "Well, well," said Daddy

his excitement. "The right person to Gander. "It's all as clear as P.Q.R. ask is my cousin The-Cock-That- The Man and the Maid got married. rowed-in-the-Morn. Go and ask And they have set up housekeeping him at once. He ought to know all in the House-That-Jack-Built and about it. Because he woke the taken part of the barnyard with Carpenter

"Who married the Man-All-Tat- "Mind you, I'm not just saying ared-and-Torn to the Maiden-All- so," said Higgledy Piggledy. "I'm Forlorn," said Nancy.

"Of course-of course," crowed common sense to me." the tin rooster turning south, then "We'll go to the highest moun-east and then north again. "I see tain," said Daddy, Gander again. you know all about it. If the Roos- "Then we can get a view of the er-That-Crowed-in-the-Morn can tell world and see where the lost house you something about Mister and Mrs. is. Come on, children!" Tattered-and-Torn, the chances are And Gaudy Gander and the Twins that the mystery will be solved, hopped on the magic dust-pan and Why shouldn't a newly-married cou-lifew away.

What Higgledy-Piddledy Said. | ple like a nice new house like the one "The first thing to do," said Dad- that Jack built? Especially as they

"What's that? What's that?" ask- 'Where is the Cock-That-Croweded a voice close by. "What did you in-the-Morn?" asked Daddy Gander of all the chickens and ducks and

Piggledy. "He and the Cow-With-"What did you say about the the-Crumpled-Horn are both gone. House That Jack Built? I heard And the Dog-That-Worried-the-Cat is you say something out of my tin gone and the cat, too, and if you ask me I might say that even the rat !

"What rat?" said Nick. "The Rat-That-Ate-the-Malt-That "Stupide!" said the tin rooster, Lay-in - the-House-That-Jack-Built,"

just guessing so. But it looks like

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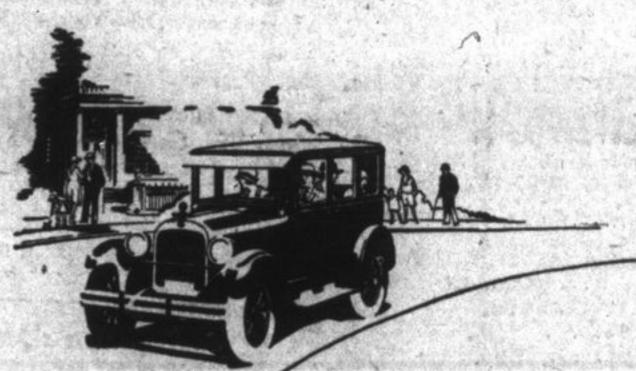
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