BARNEY OLDFIELD'S AUTOMOBILE LETTER

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Among the most important parts of halves of the bearing, while the con-jthe Willys-Overland company, Toledo

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In this country these engine hear-ings are always what are called "plain hearings," that is to say a bronze shell with an inner hining of babbit composition. Almost always these beerings are made in two parts in suc. a way that when they are listed together they form a complete cylin-der. Between the halves are placed whins when shines, which may be of solid or of ninated metal

In operation the crankshaft revolves inside this hearing, resting directly on the soft metal lining. Obviously, us-less the entire works are copiously intricated the friction generated will melt the soft metal and let the shaft down on the branze shell of the lear-ing. But short of this the natural wear gradually crodes out a portion of the lining metal, so that the crank-shaft in turning develops a little play. This results in a knock and when this occurs we know that it is time to tak - up the bearings.

Tak - up the bearings. Now taking up engine locarings is no job to look forward to, under the best circumstances. It requires con-giderable skill and experience beyond the car owner is seldom in a position those possessed by the ordinary car owner. No one should try to adjust the bearings without watching a skill-ed mechanic do the job first, but at that I think I can give some hints on how to do the mark when he is fitting crankshaft bearings.

that I think I can give some hints on how to do the work, which will be valuable to my readers. The only entirely satisfactory way of fitting the connecting hearings is to take the engine out on the work bench and do the fitting when the crankshaft has been removed. The mere removal of losseness by filing the shims or removing a lamination is not properly adjusting the bearings. Sets rid of the play temporarily but to does not give an accurately fitting bearing. When the bearing is simply which tends to cause bucking at slow tagintened against the shaft in this

bearing. When the hearing is simply which tends to cause bucking at slow tightened against the shaft in this way the original looseness will de-suits from worn flanges and when a yelop again before long. For this rea-flange is badly worn, it is difficult to method of doing the work is to put the engine on the bench and proceed as follower. The same has been as the bearing. In conclusion let me say this about method of doing the work is to put the engine on the bench and proceed as follows: The crank pin, or that part of the crankshaft that runs in the con-mecting rod bearing, is spread lightly with Prussian blue or lamp black made into a paste with a little oil. The connecting rod shims are made just a triffe smaller and the connecting rod is placed in its proper position on the crank pin. The crank pin con-necting rod is then turned around so that the bearing surfaces will rub against each other. After this has been done about a dozen times the connecting rod is removed and a cloth connecting rod is removed and a cloth is used to take off the excess color, from the bearing. This will leave the high spots on the bearing showing. These, high spots are now removed by means of a bearing scraper. Some-Barney Oldfield: by means of a bearing scraper, some-fraces the entire half of a bearing whi show high color and obviously it all needs scraping. When only scat-tered spots show color, these must be carefully scraped, care being used that the cuts do not go too deep. The outer must be cleaned so that the metal oll, or go to the supply store and get some good leather dressing. Ask for upholstery dressing. Moisten a cloth with the oil and rub over the surface, then go over the surface again with a cuts must be cleaned so that the metal clean cloth. Is not left with a number of rough spots. This scraping process will have Barney Oldfield:

Among the most important parts of harves of the bearings, which support the crankshaft it must not he so free that is real be parts the operation of the engine is ro tight that any great amount of sf-impaired in corresponding degree. Barney Oldfield: Which is the proper method to use

in descending a hill with car in gear. The ideal bearing surface will show small high spot about every thirty and using motor as a brake and havsecond of an inch. This process of fitting must be carried out with every connecting rod bearing and the ating the throttle closed. A says, the tempt is made to get each bearing is the ignition should be left on to ignite any gas that might leak through the throttle and thus prevent a back fire when the ignition (using A's method) it with the same degree of tightness. The crankshaft bearings are scraped in the same way as the connecting red bearings but it is not usually is cut in after the descend?

E.W. B possible for the car owner to take the engine out of the chassis and operate on the work bench. In this case the You get better engine braking with the spark off, in fact if the grade is long always shut off the ignition. Leave the throttle closed. best the owner can do, as a general best the owner can do, as a general thing, is to scrape the lower half of each countshaft bearing. It is by for the best to scrape the crankshaft bearings with the connecting roly detached from the shart. In this way the exact degree of crankshaft bear-bear bear is may be readily deter-

Barney Oldfield Can you please tell where I can buy ing tightness may be readily deter-mined especially if the rod bearings are first scraped in. Many repair shops have equipment for reaming bearings and then running them in

You can get the spare part from the Metz Motor company. Waltham, Mass. The starter is weak, due probably weak battery. When the head of

off, it takes very little power to crank the engine. Try it by hand and see for yourself. There isn't too much There isn't too much

Barney Oldfield I have a 1918 Cole Eight. The same Marc belt is used for the fan and generator. fore.

Every week or two I have to have the

is difficult and calls for real skill, no Could you suggest any belt I could use flames, car owner who aims to become a com-plete mechanic will want to pass the I should also like to know what you The think of C-4 fuel. Will it injure the motor? I really cannot help you in suggest

ing a better belt, but I can say avoid allowing the belt to get dirty and don't put too much tension on it. I do not know what C-4 fuel is. Enlighten

Kindly publish something on the care to take of leather upholstery in Barney Oldfield: I have a Regal car, 1915, I can find

A. C. B.

no trouble with flow of gas or spark. When running in low, if not pulling too hard, it seems to run O. K., but car. Is there a preparation for it? Use double holled linseed oil, sweet when pulling hard in any gear or when running even idle in high some cylinders don't fire and then all cease firing and she goes dead. The bat-

teries are strong. Can you tell me what the trouble is and how to remedy it?

spots. This scraping process will have to be repeated a number of times, the removed and the rod placed in position and twirled a few times, removed and the high spots scraped after each operation. When this has been done often enough, there will surface, that is to say, little spots all over the bearing surface of both



MILBURN PLAN Cross headquarters. Officials said that when the new buildings, to be erected on the site of those destroyed by fire, are completed, Milburn production will be practically doubled, and these build-ings will be in full production not later than March 1st.

But Deliveries Will Be NEW "SMILE" CAR IS Made in Jannary.

ignition should also be cut cut. It says | Resourcefulness of American Industry Emphasized in Incident.

> TOLEDO, O., Dec. 22 .- Although the Milburn Wagon Company was expected to be greatly handicappped

by the million dollar fire that swept Can you please tell where 1 can buy parts for a Metz roadster. It is a friction drive. The wheel that grips the friction plate is worn uneven, and the machine will not puil steady. Do you know of anything to line this wheel with? Or do you know where I can buy a new line? Another question I want to ask you is, why does the self starter on this car refuse to turn the engine over its hig Toledo, Ohio, plants early in

American industry, so marked during the war, has not been emphasized to turns it over when the cylinder head is off, but when it is on it just pulls the chain tight, but does not move the engine. To you think there is too much compression? If so, what remedy would you use to overcome it? American industry, so marked during the war, has not been emphasized to

all uncompleted electrics and a bountiful quantity of materials, im-mediate deliveries can be had by all Milburn dealers. Production may be somewhat reduced for a few weeks but it will go right ahead and by

March 1 will be larger than ever be

One of the reasons for Milburn's generator raised. Then in time drop-ability to, resume production so ped and have a link taken out as the promptly was a fire freak which left belt stretches so. I have had two belts which are links of leather (I think) with little pieces of asbestos between. the body departments escaped the

Buildings Destroyed. departments that suffered so greatly were the painting and trim-ming buildings. These were de-stroyed, but before the fire had been C. L. H.

pronounced under control, the com-pany had made arrangements to pany house these departments in other buildings. The buildings which housed the

partially completed and completed electrics were the last to take flame. giving ample time to remove all of them to Milburn Plant No. 2 where they will be completed and shipped. The main offices of the company

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BEING DESIGNED

have been removed to the heart of pany's Plainfield plant for some Smiles' which our product has already he business district in a building that formerly housed the central Red months. This model is said to be the personal achievement of Guy Morgan Non by its unequalled performance on the road." who joined the American Motors cor-The exact character of these features,

poration as vice-president and general manager last July. "It is a fact that we have some-thing up our sleeve," said P. W. Hanel

known that they are distinct innova-tions. The company plans to get into production' on the new model in vice-president and supervisor of sales March, when building operations now when questioned, "but we are not quite ready to let the sccret out. enable it to undertake a production Frankly the results of our tests of the schedule of 500 cars a month. In or-new car are so startling and the fea-tures of its construction so unusual that we hesitate to give out the de-tails. However, it will all come out tions, particularly in southers terri-

has not yet been disclosed, but it is

Rumors are about to the effect that the American Motors corporation has something interesting to disclose in for the first time. We are confident establishment of a separate assemblthe new Smile Car, which has been in that this new model will more than ing unit at a central point in the south process of development at the com- justify the reputation for 'Miles of ---New York Sun.



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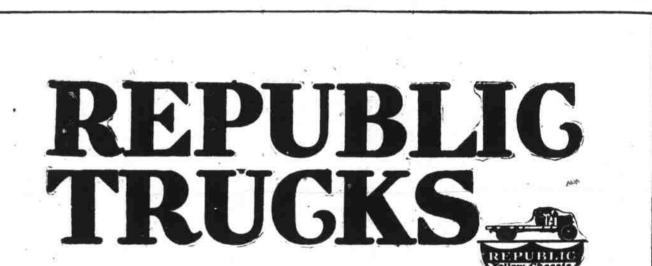
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