MOTORS AND MOTORING:

A Page Full of Interest to the Owner or Prospective Owner of an Automobile.

MISSING BEARING MAY SEND MOTOR TO REPAIR SHOP

Types and Engines Best Fitted for Them—As Long as Oil is Kept in Engine, Every One Will Perform Function Assigned to it.

Care of the bearings in an automobile is as necessary as observing the rules to be taken care of, barring accidental stoppage of the oil lead.

A bearing is a support for the moving part, made so as to minimize friction, which are lubricated with a squirt can, stand wear and achieve fine adjustment.

There are hundreds of these things in an automobile, so one could hardly The water pump bearings are lubricated be blamed for losing just a few. But the loss of only a few might raise a merry the bearings become hadly worn it is necessary. havoc with a machine, and put it in that dry dock of the automobile world—them; generally the shaft also will need the repair shop.

There are many types of bearings some in which the metals are selected with ing of the stuffing box will prevent water the idea of obtaining strength rather than

On the engines alone there are more than one hundred bearings. This is figured on the average six-cylinder motor; some of them have more than double the number There are for instance, the following:

six carburetor control, six carburetors, of interrupters are so constructed that three oil pump, four self-starter, and lubrication is advisable. Four self-starter linkage gearings; total 102. The first named cylinder and piston,

not generally termed bearings, are usually of cast iron which gives comparatively throttle bearings may be lubricated and and Leightle. long wear and in which friction is not would certainly wear longer if this was great if well lubricated. When wear does do not this point it is necessary to re-would certainly wear lubricated. When wear does do not be well ubricated. When they do wear air is admitted which is noticeable at low engine speed bore and have large pistons fitted,

The wrist-pin bearings usually are in the holes in the masting must be in the form of a bronze shell called enlarged and a larger shaft inserted. bushings, surrounding the wrist-pin; when

rounded by a steel strap or casing. When they become badly worn. Taking out thin sheets of metal, called are usually equipped with ball bearings shims, which allow the halves to be brought and are lubricated with a squirt can together. The main crankshaft bearings Both the motor and generator have a cop

upon the cam, or rollers running on a or if badly worn, must be removed and pin in the valve push rod. Wear in these trued in a lathe. parts would usually be compensated for by adjusting screws on the valve push-

The push-rods guides are sometimes babbit or bronze shell in bushing form, and would require replacement when worn. The oil pump bearings consist of a plunger working in a small cylinder,

with the end bearing against a cam, or a pair of gears driven from the cam shaft. These bearings, being perfectly lubricated seldom or never require adjustment.

All of the bearings considered so far are cared for by the lubricating systen

being usually of the cup and cone type, that are adjusted by tightening the cone When this shaft becomes replacing. worn out of round no amount of tighten

The valve stem guides are sometimes metal shells lined with a comparatively bushings, but more usually are holes after the fine game they put up with soft non-friction metal. In these bearings bored through the cylinder casting. In Westville Thursday. The fans' expecta-

six cynnders, six wrist-pin bearings, system which is unique if that some final backers, six wrist-pin bearings, four main, three facturers advise keeping it free of lub-cam-shaft, twelve cam, twelve push rod, rication substances of any kind. This from Middleton and Kentville, filled the distant speaker's voice. pump, eight ignition, six spark control, certain makes of magnetos. Other forms the grand stand, the attendance being the

causing skipping and irregular running.

The throttle and spark-control linkwear occasionally occurs it is necessary age have a number of bearings which may to drive out the bushing and replace with a new one which fits. In some cases it wire bent to fit in an eye. These pins is necessary to replace the wrist-pin also, should be frequently lubricated with a The crank-pin bearings are usually in squirt can. Usually they are not adjusthalves, the metal balbit or bronze, sur- able, so that parts must be replaced when

wear occurs the adjustment is made by The selfstarter, motor and generator The cam-shaft bearings are usually in bear. These are not bearings strictly

bushing form, or of ball type, which must be replaced with new ones when they slight trace of oil. The commutator become worn. The cam-follower bearings may be just flat plates resting directly be smoothed up with fine sand paper,

The other principal bearings through out the car are usually of ball or rolle type, which may or may not be adjust-able. Usually the directions for the care ade of cast iron or other metal, with and replacement are given in the manu facturers' instruction book

Minard's Liniment for Burns, etc.

Kentville is Defeated by Champions by Thirteen to Nothing

engine starts to run, and as long as oil defeating Kentville this afternoon in to be observed in its use. For instance, the kept in the engine they are quite certain a one-sided game of ball, on Memorial the number of people who do not talk an, excelled,

The Kentville team was disappointing away. soft non-friction metal. In these bearings moving members slide over each other. In addition to this there are the so-called anti-friction bearings, in which balls, or straight, taper, or helical rollers are used, giving a rolling rather than sliding contact.

On the engines alone there are more. In the ignition system ball bearings of Reagh, one being a double. Leitch of the species of the surround.

Westville Thursday. The fans' expectations were far from realized. Brooks the former case, when wear occurs, the tions were far from realized. Brooks the best man of the kentylle team. Use the best man of the kentylle team. Westville Thursday. The fans' expectations were far from realized. Brooks the best man of the kentylle team. Use the best man of t

argest of the season. Hits, off Reagh, 2; off Burrell "8 The carburetor air-valve bearing operates better if not lubricated, but does by Reagh 9; by Burrell, 5.

Berrors, Kentville, 7; Middleton, 2 Burrell, 5.

Fire rell was relieved in the 9th by Caldwell

Middleton-Appleby c; Reagh, p Dodge, 1b; Phinney, 2b; Harlow, 3b; Goucher, ss; Fisher, cf; J Reagh, 1f; Fisher, rf.

Kentville-Walsh, c; Burrell, p; monds, 1b; Brooks 2b; Smith, 3b; Lightle, ss; Caldwell, 1f; Metzler, cf; Leitch, rf. Umpires, Bull, Middleton; J. R. Hiltz,



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G. K. COLDWELL Located at McLaughlin Service

Wolfville, N. S.

MIDDLETON WINS EASTERN VAL- TALK INTO NOT ACROSS TELE-

In most respects the telephone is by Thirteen to Nothing such an easy instrument to use that we are very likely to overlook a few simple and really obvious practices that ought winning the championship last season in the Valley League. They are a fine aggregation of players, having worked together for some time. The team has put Middleton on the map in the baseball presum. The team again. The team again the transmitter cuts down. realm. The team as a whole played so away from the transmitter cuts down well it would be difficult to specialize. However, V. Reagh as pitcher, J. Reagh in fielding and batting, Appleby as catcher, and Dodge, the team's star first basethan when he is but three or four feet

> In case either party to a telephone conversation has any difficulty in un-

stems be inserted.

In the ignition system ball bearings off Reagh, one being a double Leitch also played real ball, making some fine usually are employed with or without means of adjustment. These are lub-means of adjustment. These are lub-means of adjustment.

Out at first, He also secured two hits out at first, He also secured two hits of Reagh, one being a double Leitch phone message when one's surround-ings are noisy, the transmitter mouth-piece may be covered with the hand while listening. This shuts out the expiece may be covered with the hand while listening. This shuts out the exmeans of adjustment. These are law will. Metzler made a pretty catch in the catch i Six cylinders, six wrist-pin bearings, system which is unique in that some manual in the first inning by a fine running prevents the reproduction of this noise act of a high fly catch of a high fly to his ear, where it would tend to confuse

Those three practices, although ex-tremely simple will, if consistently obser-ved be found to yield results amply justifying the slight attention they require

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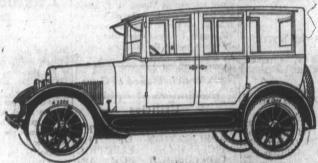
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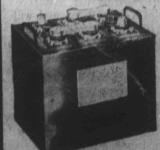
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