NEW TRUCK UNIT FOR DODGE AUTOS

Special Truck Builder Designed for Use in Making Two-Ton Truck Out of Dodge.

A new field for truck enthusiasts has Dodge automobiles. This unit, manu- gasoline or kerosene factured by Graham Brothers of structed for attaching to the Dodge T. L. "front end" or power plant, thus mak-

Good Climbing Record.

Each truck was required to carry a initial and Snal cooling points are half way up and then drive to the sum- under pressure it will crack or split Do these parts break very often? Amos B. mit. The Dodge-Graham was the only one which reached the top.

A Torbensen internal gear drive is used in this new unit and according to Mr. Bullock the capacity is one and one-half and two tons. This, in view of the fact that the price is several trucks of a similar capacity, offers an unusual value.

Ample Fower Furnished.

"The power and serviceability of the Dodge motor," asserts Mr. Bullock, "will make the combination truck a great favorite with truck fans and will throw into the balance a number of serviceable two-ton trucks.

"The Dodge Brothers have sanctioned the use of their power plant in the construction of trucks and have already offered to ship as many of The Murphy-O'Brien Auto company of Omaha, Dodge distributers, have you keep going I mean if the numb already taken on the distribution of the Graham-Dodge truck builders in large body-building concern to fur-

nish bodies in 12 different styles. "So far," asserts Mr. Bullock, "deliveries on Graham truck builders has been sufficient to take care of all requirements in spite of the fact that the universal attachment as well as the Dodge unit have been much in de-

"KING" FIRST OUT WITH MANY NEW AUTO FEATURES

The King Motor Car company has been one of the leaders in the development of the American passenger car, both in originality of mechanical construction and in body design, as-serts W. L. Killy of the Noyes-Killy Motor company.

"You may recall that in the very earliest days of the motor car's development, a King appeared on the streets with the en bloc motor, left side steer and center control, causing no end of wonder and comment.

"Doubtless you remember also, the debut of the four-cylinder King and the stir it created along automobile row because it embodies a rear spring suspension that was new to America. Today, cantilever rear spring suspension, pioneered by the King, is used by numerous makes of passenger cars, both here and in foreign lands.

'Talking of old times! Do you remember the coupe body brought out by the King some seven or eight years ago-the one wherein the back of the body and the roof were gracefully blended into a handsome streamline effect from rear deck to wind-shield uprights? The curved glass front was also an innovation. This edaptation of old colonial ideas met with instant favor and was the forerunner of the streamline effect for all types of bodies.

The King was the second American car to adopt the eight-cylinder motor and today it is recognized as one of the leaders in the multicylinder field.
"Possibly it has escaped you notice," further commented Mr. Killy, "that the sport type of body now so popular with many drivers was also introduced by the King at the New York Automobile show in January of 1917. The King Foursome, a copyrighted name for the King sport type, was exhibited for the first time at this show. And no greater compliment can be paid to any car than to have its style and design widely copied by other manufacturers."

CARE OF HORSES REQUIRES MUCH VALUABLE TIME

"Through the saving in time and work which the motor truck effects, labor can be released for other work without affecting the nation's haulage and deliver program," says Carl Changstrom of the Standard Motor

"I was recently talking with a man, who was finding it extremely hard to not only secure sufficient help, but the right kind of help to handle his teams. He had practically decided to give them up and invest in motor trucks, because he was convinced, after a thorough investigation, that he only needed about half the number of trucks and men as compared to his horse-drawn equipment to handle the same amount of business.

"Along this line the following newspaper clipping shows that this scracity of help is being offset by the motor truck quickly and economically and without hardly any interruption while making the change:

'For Sale-Fourteen horses, three mares and four colts, which we have been using in city and country cartage work. We wish to sell them immediately as we cannot secure help necessary to drive and take care of them. We find it necessary to invest in motor trucks to take care of our business. These horses are sound,

good stock, etc. "All of which proves that not only has the motor truck created new transportation standards, but, with ment, it fills the vacancy in a made-

to-order fashion.



recently been opened through the ity of different gasolines? What is the smoking and overoiling than burned manufacture of a truck builder for real significance of the gravity of bearings and scored cylinders.

If either fuel is heated too much Evansville, Ind., is specially con- won't it lose its pep altogether?-B.

ing a complete truck.

According to E. A. Bullock, manager of the Graham Bros. Sales comager of the Graham Bros. Sales company, Omaha distributors, this new pared with an equal quantity of pure of the battery connected in series unit is causing a considerable amount water. Thus a cubic centimetre of will do the work. of comment and the general opinion is water weighs one gram and water is that the Dodge power plant will pro- said to have a specific gravity of of three means the substance weighs In a recent test at Hiawatha, Kan., three times as much as water. It is a truck built by combining a Dodge usual to measure gravities by means power plant with a Graham truck of a hydrometer which may be had builder outpulled four other two-with regular or Baume scale. The tires. ton trucks in a hill climbing contest. gravity has little significance. The

up into other compounds. I am going to do some touring this summer and need a few tips. Is it a tween wide simits ranging from say being driven so that the gears can good idea if ots of traveling is done about nine to as high as 50. A good be brought to gether when their in the day and none at night to have average of all cars is about 27. the generator fixed so it wor't over have heard of few cases of breakage. hundred dollars lower than complete charge the lattery. Also is wel! Crystallization is the usual cause. water good to put in the battery or should I carry some distilled water

You can have the service station alter the charging rate for you. Also that it cost more than gold. Then you might ourn the lamps a certain how can they sell the points so period during the day or use the cheap? Why would they use platistarter a few times to partly dis num anyway:-Doubtful. charge the battery.

Some well water is all right. Better take some distilled water along.

you keep going. I mean if the pump can't be fixed .- John Oleson.

THE

How do you measure specific grav- smoking, but rather a great deal of

I have a Ford car and am going to hook up sone batteries for starting. How many dry cells should I use? I 1.-I presume you mean determine have a six cell storage battery. How its Baume gravity which is different many cells should I use and how do

Liners are excellent for worn tires. making it possible to get much addi-

load of two tons, start up the hill, stop the real factors. If heated too much the average car's front axel spindle? have a five-speed transmission?—

. What would you give as the common cause?—A. B. Doyle. The factor of safety will vary be-

breaker points and vibrators? I thought that this stuff was so dear

They are not made of platinum, but often platinum tipped. Platinum is ideal because of all metals it is least affected by changes in tempera-What can be done in an emergency ture and therefore will not feel the

was before it will not run as it did. It don't always do that, but why should it change?--Adams.

The first thing to do is to lift the good and watch the interrupter housing or distributor head (you do not say whether battery or magneto ignition,) while someone moves the spark lever. Usually execssive wear in the linkage cause this, but the trouble might be anywhere in the spark advance mechanism. What make of ignition system have you?

My motor runs fine at low speed it gets up that far it seems to get so aero squadron, with the expeditionary noisy and pull as if there was sand in forces abroad, to his mother, Mrs. 30 men in a house, with plenty of heat, it. It isn't so bad at 40 but then I Mary Cobry, 2821 Davenport street. seven blankets and most and best of can't keep it at that long enough and In explanation, he details the follow- all, a regular spring cot, a real mat-

Wolfe. but usually in a case of this kind we morning at 7 o'clock and went across the time.

say that the critical speed of the enthe whole of Scotland and landed "All the beauties of bonnie Scotland" gine is reached. It often is called a here at 3:30 o'clock in the afternoon. were certainly placed before us on our line or hard grease. Are liners for the tires the right it, but you will find that going slightvide an excellent propelling force for unity. All comparisons are made with are all right but imagine they make nates the vibration. It is caused by shaft vibratan,

> A says that it is possible to shift the clutch must be thrown out for the gears will hit and maybe strip. What factor of safety is used in Who is right? Also is it possible to

> > It is possible to shift without disengaging the clutch. It requires expert knowle ige of the particular car being driven so that the gears can I speeds are approximately correct

It is possible to have almost any number of speeds you want them, if the transmission is made large Do they really use platinum for enough. Four speeds is the limit right now.

Rapid Fire Grease Gun.

Here is a method of putting tubricant into the rear axle in double quick time. Put a common funnel in the filler hole of the axle. Remove the cap and nozzle from the end of the grease gun, opening the whole front end of the gun. Put the end screwing up the handle in the ordi-

their 'front ends' to dealers for this purpose as production will permit. Toad and there is no oil feed? Looks points now are of an allow steel. points now are of an alloy steel. Sometimes I will be driving along nary way. The grease will shoot inthe road and I get good results with to the axle in jig time and a rinsing The safe way is to so ful the crank- the spark advanced to a certain point, with kerosene and wiping with a bit the territory in which they sell Dodge case with oil that you get splash oilcars, and have also arranged with a long of course, there may be much for a hill and put it back where it operation from the funnel.

AS AN EDUCATIONAL FACTOR

"So Writes John J. Cobry From "Over There"

After Making "Tour" of Bonnie Scotland. UNCLE SAM'S ARMY IS

"As an educational factor, Uncle It was pretty hard to leave old Ayr, Sam's army can't be beat," writes as I certainly did enjoy myself there and up to 35 miles an hour and when John J. Cobry, member of the 25th for the last three months.

I do not know the make of engine, We left Ayr. Scotland, yesterday and it is misty and dreary nearly all

anyway I don't like to drive so fast. ing in his letter, dated April 24:

What makes it so noisy at 35?—S. "Well, we are located again, but We are so close to the sea that I don't know how long we will be here. understand the sun shines very little

trip. The country is beautiful at present and everything looks fresh and thriving. The whole country for miles on each side of the railroad track is plowed up and great flocks of sheep are in evidence everywhere. I have never seen so many foundries and blast furnaces as there are in England. I had no idea they were as large or covered as much ground as

they do.
"In sending mail or other articles make the notation, 'via London' in the address. Will tell you where I am at the end of this letter, so if it is censored and cut out it won't hurt the

True to his "hunch," the address was cut from the letter.

Irregular Firing.

Mosture gathering on the posed part of the porcelain of the spark plug wil loften cause irregular firing. This trouble may be cured by greasing the porcelain with vase-



CHASSIS DODGE BROTHERS' CAR Built Especially for the Dodge Not a Universal Unit

COMMERCIAL

PRICE \$520

f. o. b. Ottumwa

Specifications

AXLE — Russel Internal Gear Driven—using for the load carrying axle solid steel 216 inches in diameter. All mechanism inclosed, affording perfect cleanliness, quiet working and efficient lubrication.

GEAR RATIO-7 8-10. DRIVE SHAFT - 21/2 inches, special tubular 4point insuring flexibility, durability and protection

against jar. WHEEL5-14 spokes, 2 inches square.

TIRES-34x4 or 32x4, optional. SPRINGS-12 leaves, 3 inches wide, 54 inches

SPRING SHACKLE BOLTS-34 inch nickeled steel, made with oil way.

Grease cups provided. FRAME-Laps 4 feet on Dodge car.

WHEEL BASE - Standard, 140 inches.

Owing to the wonderful "lasting qualities of the Dodge Brothers Motor Car and its abundant power, it is holding a great deal of attention as a unit for truck construction. There is a very steady, growing demand for a truck assemblage using the Dodge Power Plant.

Fits the Dodge Perfectly

The Iowa Motor Truck Co. has constructed a truck building unit especially for Dodge cars, which can be attached in a few hours by anyone. It fits the Dodge chassis perfectly and requires no mechanical skill to convert it into a two-ton truck.

Extra Heavy Axle

A feature in the construction of the Iowa unit for Dodge cars is the extra heavy solid steel axle, 21/4 inches in diameter. This assures ample strength and will permit overloading at least 10%.

In addition to the Dodge unit we build a unit for all cars ex-cept cars with a rear axle trans-

Prices of Ford and Universal Units

1-Ton Ford Unit, 116-inch

Wheel Base, 32x3 1/2 -inch 1-Ton Ford Unit, 144-inch Wheel Base, 32x31/2-inch Tires\$445.00 2-Ton Ford Unit, 116-inch Wheel Base, 32x3 1/2 -inch Tires\$520.00 2-Ton Ford Unit, 144-inch Wheel Base, 32x31/2-inch Tires\$545.00 1-Ton Universal, Internal Brakes, 130 to 140-inch Wheel Base, 32x31/2-inch Tires\$435.00 2-Ton Universal, Internal Brakes, 130 to 140-inch Wheel Base, 32x3 1/2 - inch Tires\$535.00 34x3 1/2 -inch Tires and Wheels, \$15.00 additional.

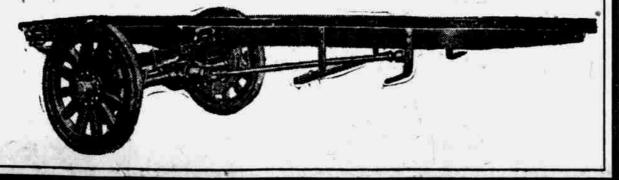
34x4-inch Tires and Wheels, \$25.00 additional.

Get in Touch With Us for Full Information

Iowa Motor Truck Company

Ottumwa, Iowa.

Omaha Branch, 606 First National Bank Bldg. Phone Tyler 38 and 39.







No. 225 Henney Commercial Body—Just the body for the grocery and meat market. HIGH GRADE ME-DIUM PRICE. Will fit your Ford chassis.



Come in and see our line and get our prices.

Nebraska Moline Plow Company Leavenworth Street, Between 8th and 9th. Phone Douglas 2648.