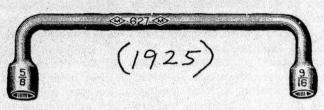


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No. 627 MOSSBERG CARBURETOR BOLTS AND GENERATOR SCREWS DOUBLE END WRENCH FOR FORD CARS



Specially adapted for carburetor bolts and generator screws and fits 32 other adjustments on Ford cars.

Openings: $\frac{5}{8}$ and $\frac{9}{16}$ inch hex.

Construction: Chrome manganese steel. Deep sockets and ½-inch bar of one-piece construction. Finish: Burnished nickel. Length: 10¼ inches.

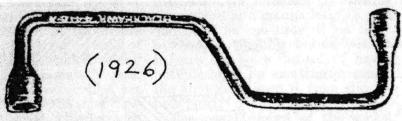
Shipping Weight: Six wrenches in carton, 4½ pounds.

No. 627 Double End Wrench.....each \$.90

Editor:

The Ford parts catalogs for 1925, 1926, and 1927 list a 5Z-817 double end socket wrench, 9/16" and 5/8", for carburetor and generator bolts. The examples I have seen are exactly like the Mossberg wrench shown above. They have the Ford script, the Mossberg "M inside a diamond" manufacturers mark, and the Ford part number 5Z-817.





Diameter handle 1/2 in., socket sizes

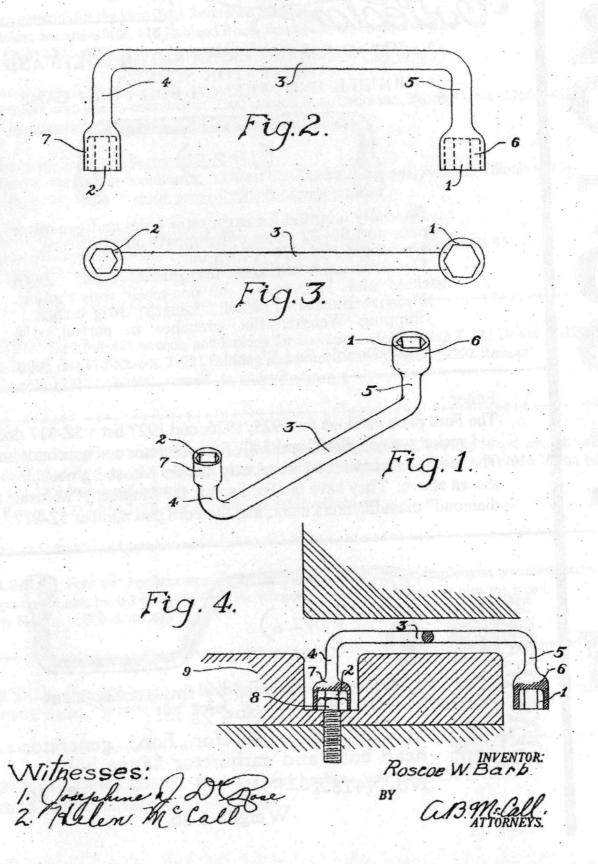
Specially designed for Ford generator head bolts and carburetor flange bolts.

No. 4418X—Each\$1.00 Weight 1 lb. Feb. 15, 1927.

1,618,046

R. W. BARB

SOCKET WRENCH FOR FORD AUTOMOBILES.
Filed Sept. 4, 1924



UNITED STATES PATENT

ROSCOE W. BARB, OF SPRINGFIELD, ILLINOIS.

SOCKET WRENCH FOR FORD AUTOMOBILES.

Application filed September 4, 1924. Serial No. 735,801.

bination socket wrench such as may be ordinarily needed about automobile motors for manipulating bolts and nuts on the same.

A particular object of my invention is to provide a combination socket wrench of the character herein described and claimed and which in its merited design is adapted to 10 difficult recesses about the more recent modlarly such places as the retaining bolts for the carbureter and the starter generator.

A further object of my invention is to 15 provide a combination socket wrench of the character herein described which in the nature of its design is adapted to provide an arrangement whereby the hand power controlling the movement of the wrench may 20 be applied in the same pivotal plane in to the bolt or nut is the center thus removing the usual cause for socket wrenches slipping off the bolt head or nut; especially in 25 such inaccessible places about the car motor as may make it impossible to get any extra hand pressure on top of the wrench to help hold the wrench from slipping.

30 tained by the socket wrench for Ford automobiles, described in the annexed specifications, recited in the claim and illustrated in the accompanying drawings in which like reference numerals indicate the same struc- turning the wrench. tural parts in the several figures.

the wrench of my invention. Fig. 2 is a side elevation of the wrench of my invention. Fig. 3 is a top view of the wrench of 40 my invention. Fig. 4 is a sketch showing how the wrench may be successfully used in close places about a car motor that are not easily accessible where satisfactory results may be obtained with this wrench 45 without any difficulty.

The preferred embodiment of my invention is illustrated in the several figures above mentioned and the desired means of operating the same will be clearly set forth 50 in the instructions which follow.

most practical for the greatest number of other and at right angles to the handle

This invention relates to a class of com- bolts or nuts that are likely to be found about the motor of a well known automobile and more particularly such bolts and nuts as are not easily accessible because of some me- 60 chanical obstruction that may stand in the way of securing a satisfactory grip with a wrench of ordinary design.

It is a matter of common experience provide easy access to several of the more among automobile mechanics to find certain 65parts of the motor in such a position with els of Ford automobiles and more particu- respect to the bolt or nut desired to be worked on that it is with the greatest difficulty that the mechanic is able to secure a firm wrench grip on the head of a bolt or nut 70 without the wrench slipping off and it is with this difficulty in mind that the inventor who is a practical mechanic has designed the who is a practical incommend which is the subject of this applica-

In this connection it seems that where which the point of application of the wrench previous efforts have been made to design a socket wrench which would reach the more inaccessible bolts and nuts that the handles for such wrenches have been formed in such 80 a way that where the hand power is applied for normally turning the bolt that the direction of movement and the relative position of the hand in turning the wrench has had The desired object of my invention is at- a tendency to cause the wrench socket to slip 85 off of the bolt head even in spite of efforts that have been commonly made in such cases to hold the wrench down securely on the bolt head by means of the hand not used in

It is to be further observed in this respect In the drawings Fig. 1 is a perspective of that when the mechanic is working in such close places and manipulating a wrench with one hand he can usually get better results by having one hand free with which to 95 balance his poise instead of having to use his free hand for exerting pressure down on the wrench to keep it from slipping off the bolt head.

The novel design of the socket wrench 100 of my invention will prevent the difficulties above mentioned for the reason that it is designed on scientifically correct mechanical principles of operation.

Referring to the details of construction, 105 a method of manufacture of a wrench of Referring now to the structural detail of this character would be to form the knobs my invention it will be observed that the 6 and 7 and sockets 1 and 2 at corresponding sockets on opposite ends of the wrench for ends of a straight handle after which handle the sake of convenience should be of unlike 3 is bent near the ends to form the wrench 110 size and a size in each case which will be the necks 4 and 5 respectively parallel with each



is thus formed and ready for use the mechanic may use the wrench with great satisfaction in difficult situations about the type

of car for which it is best adapted.

For instance referring to Fig. 4 if the mechanic desires to tighten a cap screw 8 10 with this wrench in a difficult place about the motor 9 he may for example place wrench socket 2 over the head of cap screw 8 where wrench neck 4 and handle 3 make integral connection with neck 5 and knob 15 6 at the opposite end of the wrench which are jointly used normally as a hand grip for the mechanic when turning the cap screw 8 in which case the knob 6 is adapted to normally fit snugly into the mechanic's hand in manipulating the wrench.

It will be seen from the foregoing description of the wrench of my invention that when the hand power of the mechanic is tion having integral arms carried by the 60 applied to knob 6 moving the wrench in an arc about a central axis located at the longitudinal center of cap screw 8 that the exerted hand pressure being in the same pivotal plane with the said cap screw head will properly poise the wrench socket over the cap screw head and thus have a tendency. to hold the wrench on the cap screw without the necessity of exerting extra pressure on the wrench in order to hold it down on the cap screw, a thing which is very difficult In witness whereof, I hereunto set my to do in places that are not easily accessible hand and seal, this 21st day of August A. about the car motor. It will be observed that when a mechanic

-3- and on the same side of the straight is working in close places under or around a Ford car motor and is using a wrench he It will now be noted that when the wrench usually needs one hand on the wrench and 40 the other for stabilizing his poise and this is particularly true where it becomes necessary to manipulate the retaining cap screws holding the carbureter, the starter generator, connecting rod nuts, crank case bolts 45 and nuts, manifold studs, dust pan nuts, differentials, housing nuts, universal joint bolts and nuts and so on.

> I do not wish to be confined to the use of hexagonal sockets as shown for sake of 50 convenience and existing use on present car models but it will be seen that the same merits will hold good where square sockets are used or square headed bolts, nuts and

Having thus described the nature of my invention what I claim as new and useful and desire to secure by Letters Patent is:

A wrench comprising a straight body porends of said body portion at substantially right angles thereto in parallel relation to each other on the same side of said straight body member and in the same plane as the body portion and provided with nut receiv- 65 ing recesses in their ends, said arms of equal length forming handle members when either arm is in engagement with a nut, whereby a leverage action may be applied to the nut in the plane of the nut.

In witness whereof, I hereunto set my

D., 1924.

ROSCOE W. BARB. [L. s.]

SO.....WHAT DO WE HAVE???

1. An ad from Mossberg in 1925.

2. Ford parts book entries starting in 1925 for the same wrench, manufactured by Mossberg.

3. An ad from Blackhawk in 1926 for virtually the same wrench with the handle

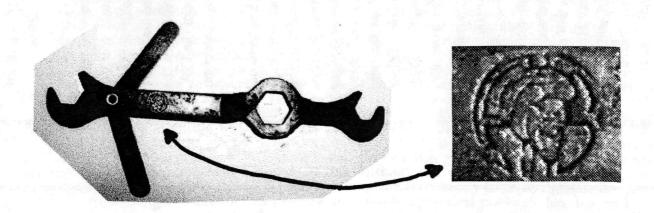
Shaped differently.

4. A patent application dated 1924 for the same type of wrench as the

Mossberg/Ford wrench.

It is interesting to note that the patent was finally granted in 1927, the very year that production of the Model T ceased, thus making the wrench of value only to those folks who worked on "older cars". Keep in mind that the advertisement dates are only for what ads we have available to us. Blackhawk and/or Mossberg could have been in production before those dates. Also, fixed socket type wrenches were on the decline by the late 1920's and detachable socket sets were becoming more available and would soon make fixed socket wrenches obsolete. AND, who was Roscoe Barb? Did he work for one of the companies or was he just a solo inventor? Who had the original idea? Was there industrial espionage involved? OK, you tool detectives, get to work!!!

In FTT, November 2006, we published a small (bad) image taken from a Fordson parts catalog of a magneto wrench # N-17023 (old number S-1543). This wrench was for the American Bosch magneto that was used starting in 1929 in place of the old flywheel magneto. We asked readers for any further info. Dale Radiel has responded saying he has a wrench, pictured below, that appears to be like the catalog image. His wrench has the old American Bosch logo (enlarged below): a rounded AB with a drawing of a pilot's head, with helmet and goggles, called "Fritz the Flyer", capitalizing on the great success Bosch had in producing aircraft magnetos. Now the questions are: is this wrench from the earlier days, or did Bosch supply this same wrench with the Fordson magnetos, and are there versions that were actually stamped with the Fordson part number? Time will tell, maybe.



Dale Radiel also asks questions about the 01A 17017B wrench for sparkplug and cylinder head nuts. Regarding the number following the part number, was this anything other than a forging number? Is there any way to identify the particular wrenches that came with the cars? From 32 to 92, I am lacking number 33. Was there a 33 made? Were there any numbers before 32 or after 92? Editor: The parts catalogs we have available indicate the wrench was issued with tractors 9N, 2N, 8N, and NAA from 1939 to 1954. It was issued with the 85 and 95 horsepower cars from 1938 to 1948. For dating purposes we know that # 69 and prior had Ford script, and # 70 and above had Fomoco script and the Fomoco logo was adopted around 1950. We have not uncovered any information as to certain numbers being issued to either cars or tractors. Anyone with further information, please submit it.

WANTED TO BUY: Tim Daley, 810-724-2866 or email to: daleynews4@yahoo.com

1. Ford tractor spark plug socket and handle issued with the NAA (Jubilee) Ford tractor. The September 1952 Master Parts Catalog lists the tool as: 2C 17017-A Wrench (spark plug socket) and 2C 17094-A Handle (spark plug wrench). This tool was issued in a kit with a new tractor. The kit part number is NAA 17003-A and also included the 01A-17017-B spark plug/head bolt wrench. I am looking for just the socket and handle.

2. Original grease gun for Ford 9N tractor. Part number 9N-17125-A.

 An original Ford 9N tractor jack part number 9N-17078, assembly. Individual part numbers: Jack 9N-17080 and Jack handle 9N-17081.

FOR SALE: complete, original N-series Ford tractor tool kits w/new reproduction tool bag. \$ 150.00 plus shipping. Also have Model A tool kits available. Individual tools also available as well as some Model A and T tools. Email me with what you need. Also WANT circle M Moore logo and Ford logo plow wrenches with 9N17014 part number and mold/die/lot numbers 1,2,3,4,6,7,8,30, and 31.

made without the use of Proper repairs cannot be this set of tools

starting and lighting system on generator and motor of the F.A. are specially designed for quickly the Ford car. and easily making repairs on the illustrated in this folder. They number of high grade tools as THE F.B. Generator and Motor Repair Tool Set consists of a

and satisfactory results. They of tools were made and these study of the entire subject. are ideally suited for your use that will give the most efficient Ford engineers, after a thorough signed, with the assistance of have been selected as the ones Careful trials of various designs This set of tools has been de-

you need. only those additional ones that of these tools, you can purchase if you are equipped with some ally need all of them. However complete set, as you will eventurecommend the purchase of the pay for their installation. We saved by their use will quickly needed and the time and money Every tool in the outfit is

> allowed to Ford Service Stations. tration. A special discount is description under the large illuseach separate tool is shown with outfit is \$96.95. The price of The price of the complete

at once job. Shipment can be made profit to you out of the same manner, and that means more an economical, modern, uniform make your electrical repairs in This outfit enables you to

by check or money order. Order should be accompanied

Other F.B. Products

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Write for Bulletins

Ask us for information on any of your electrical problems.

F. B. Electric & Manufacturing Co.

Motor and Generato Repair Tool Set

for use on the Ford F. A. Lighting and Starting System





money saving tools built specially for the Ford Here is a set of time and Service Station.

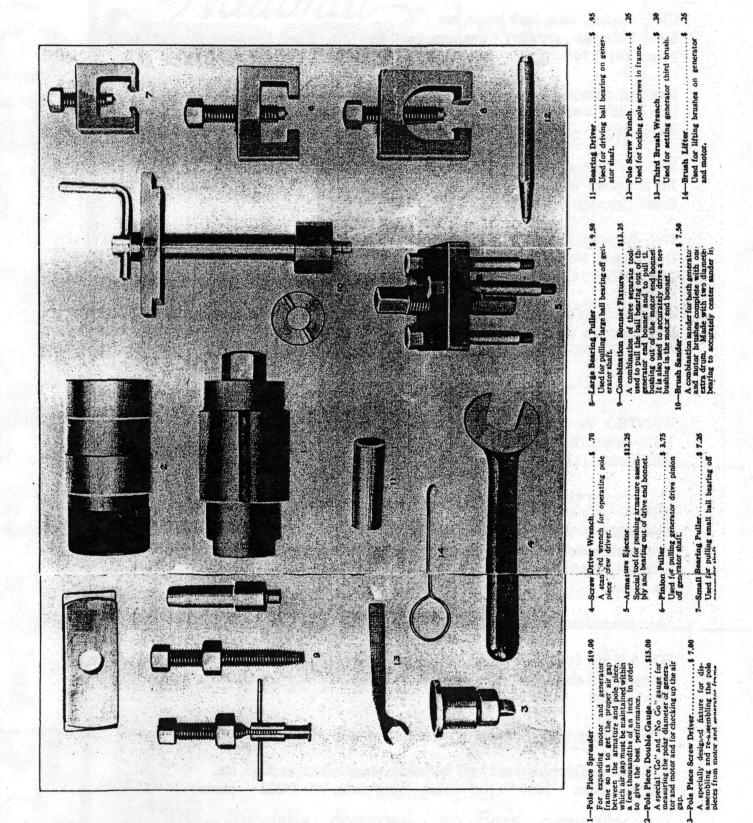
DETROIT, MICHIGAN

F. B. Electric & Manufacturing Co.

DETROIT, MICHIGAN

Sold and manufactured by the

2531-10-12-20



This F.B. Company Motor and Generator Repair Tool Set brochure from 1920 was submitted by Douglas Skinner, who obtained it from the oldest Ford dealer in Vermont, Ted Green Ford.

Club business, dues, back issues, etc.

Steve Thompson, secretary – treasurer, 6620 East Outer Road, Norwood, Missouri 65717

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Articles, letters to the editor, classified ads
Phil Anderson, newsletter editor, 1420 Hidden Lake Drive, Placerville, California 95667
Phone (530) 622-1343 email soquili@earthlink.net

WANTED: Ford 5-Z-821 wrench, and looking for Stevens Model T tools: T-121 Driver, T-122 Puller, T-150 Driver, T-213 Fore-out, T-231 Bushing Extractor, T-290 Refacer, T-292 Refacer. Jeff Humble, (231) 780-5609. email humblej@gdls.com

WANTED: T-4069 tire iron with Ford script and Made in Canada. T-1917 open end wrench with Ford script and Made in Canada. Open end wrench with Ford script on side 1 and 01A17016 V8 on side 2.

Enfo 01A17016 open end wrench.

Jim Koons 717-838-1998 or JimKoons208@verizon.net

FOR SALE: Ford and Fordson wrenches. Also many different farm implement wrenches and companies. I also have 3 different Cadillac wrenches. Stop in any time or give me a call. Dusty Hanan 608-884-0413

FOR SALE. Over 200 Ford tools including oil cans, bumper jacks, etc.

Warren J. Baier 3810 N. 101st Street, Wauwatosa, WI 53222 phone 414-461-6925

CHECK OUT OUR WEBSITE. Extensive work has been done with more to come. www.fordtoolcollector.org