

A SMALL INVESTMENT!

CUTS YOUR PLOWING COSTS

ATTACH IT IN A JIFFY

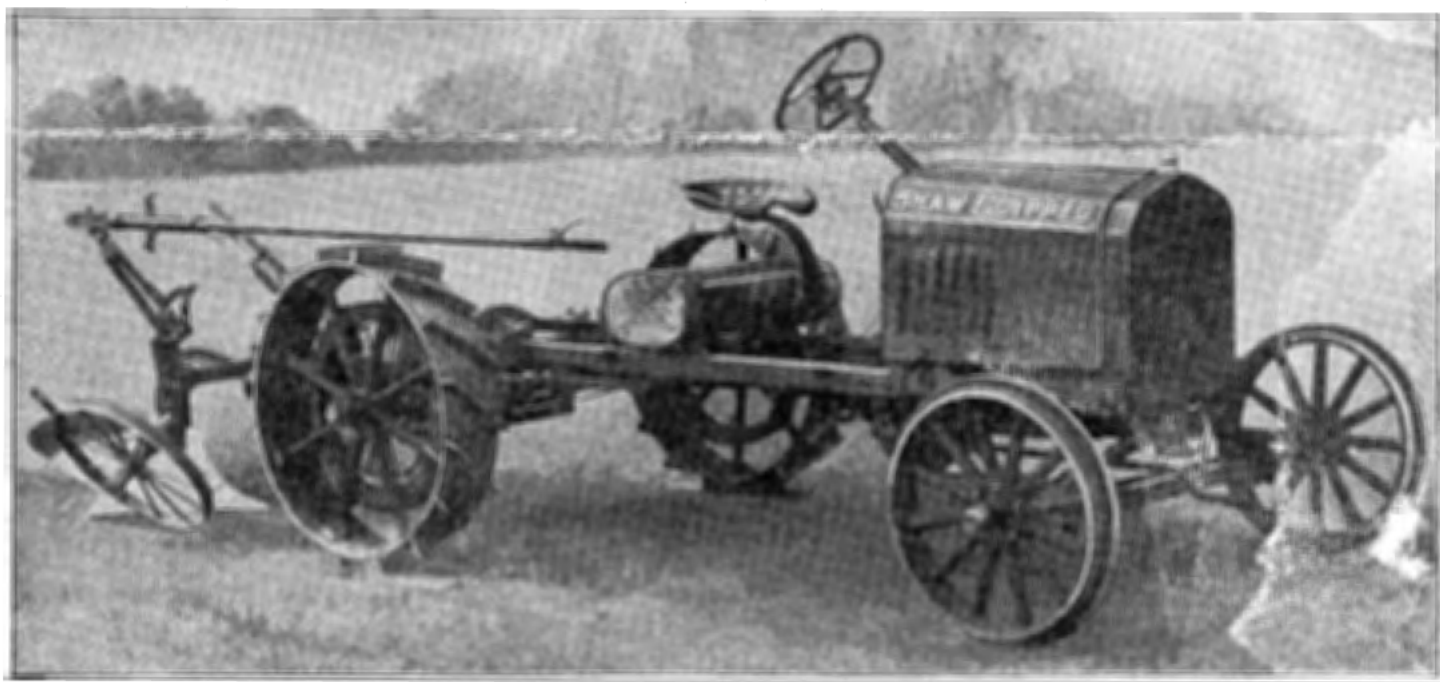


Illustration No. 1.

The above illustration shows the Ford frame with engine equipped with the SHAW No. S-4E Jiffy Equipment, hitched to the No. HR-16 Hummer Plow. A rolling coulter and weed rod are not shown as they are not furnished as regular equipment, but can be furnished at \$3.65 net for the rolling coulter and \$1.00 net for the weed rod. The Hummer Plow is arranged with a depth regulating lever within convenient reach of the operator from the tractor seat.

width between the rear wheels is 55 inches, and the rear tires each being 8 inches wide, makes the width from outside to outside of tires 71 inches. It is a very simple matter to convert the old Ford car into a Model S-4 Tractor by using this equipment.

Many parts of the Model S-4 Tractor are the same as in the Model R-4 Tractor and the tractors pull the same load. However, the Model S-4 Tractor will not turn in as short a space as the Model R-4 Tractor but will turn shorter than a Ford car does because the wheelbase, which is 86 inches, is shorter than the wheelbase of the car.

It is so easy to tractorize your old Ford car by using our Jiffy Equipment that you cannot afford to be without the convenience and economy of power farming any longer. If you have an old Ford car with the frame, engine, transmission and differential gearing in good condition, by using our Jiffy Equipment you can easily convert it into a sturdy, dependable tractor in just a few hours' time, for there are no alterations to make on the standard Ford cars up to and including the 1925 models. All that is necessary is to remove the old body, fenders and running boards from the car; then remove the rear spring and follow the instructions and blue prints sent with each equipment. If the old dash is in good condition, it is not necessary to remove it. However, if it is wood and dilapidated, we recommend putting the steel dash on, which can be purchased from any Ford agency at a very reasonable price. Remember you are going to have a good tractor and it will not only be better but will also look better and you will like it better if it has a substantial dash.

In choosing between the No. R-4E and No. S-4E Equipment, you should take into consideration the work to be done, bearing in mind that the Model R-4 Tractor will turn shorter but will cost more on account of requiring a number of Ford parts to be altered in order to narrow the tread, and the rear end of the frame has to be cut off.



Illustration No. 2.

Plowing with a Model S-4 Tractor and a Hummer Plow.

GUARANTEE.

We Agree to make good by repair or replacement within one year from date of invoice, any defect in material or workmanship of any Model S-4 or Model R-4 Tractor Equipment, or any part provided the defective part is delivered to us, transportation prepaid. This guarantee is your positive assurance of satisfaction.

SHAW MFG. CO.

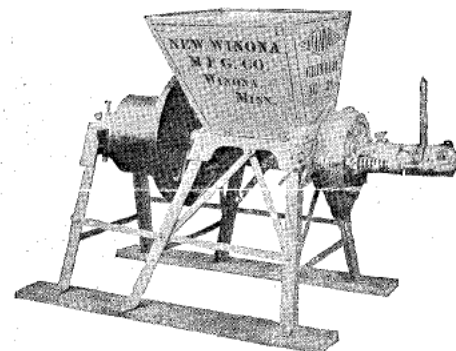


Illustration No. 3.

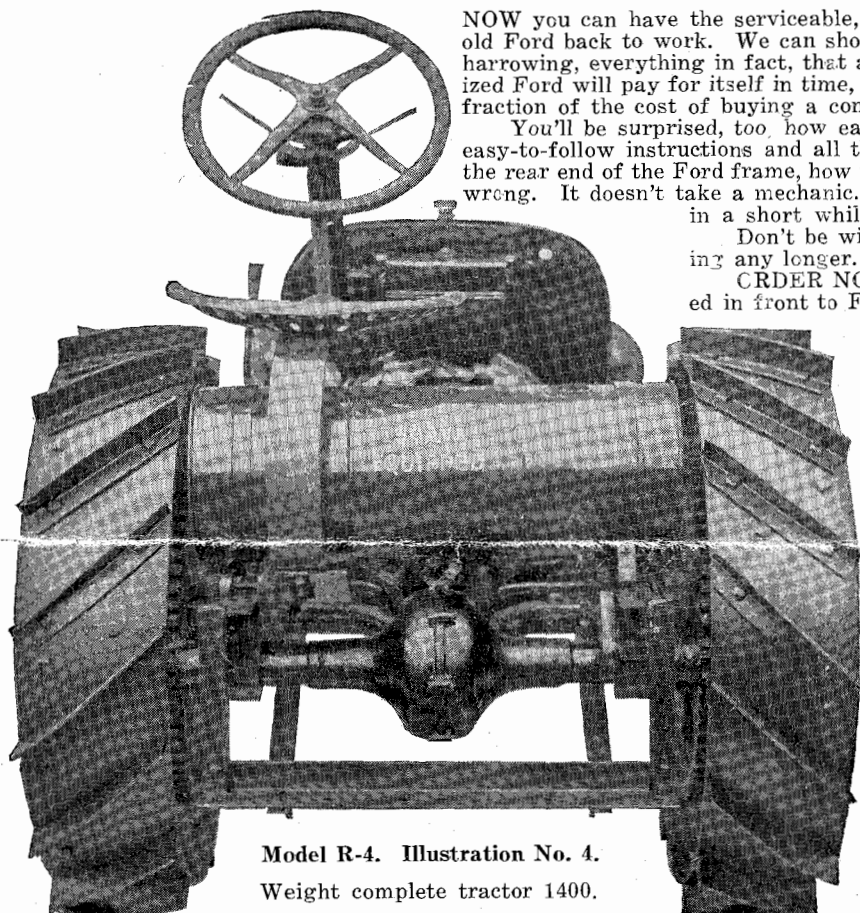
NO. 24 DIAMOND GRINDER

H. P. Recommended.....	5 to 8
Capacity	20 to 40 bu.
Burrs	8" in. diameter
Drive shaft.....	1 7-16" in. diameter
Pulley, std. eqpt.	12" diam., 6" face
Flywheel.....	Diam. 19", weight 50 lbs.
Weight, with agitator less 3rd bearing	300 lbs.
No. 24 AB Grinder complete with 3rd bearing and agitator.....	345 lbs.

This is an excellent grinder for use in connection with a SHAW Tractorized Ford equipped with a power take off pulley.

Easy to Build A Sturdy, Dependable

Either The Model S-4 Tractor Or The Model R-4 Tractor Easily



Model R-4. Illustration No. 4.

Weight complete tractor 1400.

NOW you can have the serviceable, sturdy tractor you need and want. Just put that old Ford back to work. We can show you how to make it do your plowing, cultivating, harrowing, everything in fact, that a tractor can do. In one short season your tractorized Ford will pay for itself in time, money and labor saved. And its cost is but a small fraction of the cost of buying a complete tractor.

You'll be surprised, too, how easy it is to make the change. We furnish complete easy-to-follow instructions and all the tractor parts. We tell you just how to saw off the rear end of the Ford frame, how to attach the tractor drive wheels, etc. You can't go wrong. It doesn't take a mechanic. Anyone with a few ordinary tools can do the job in a short while.

Don't be without the convenience and economy of power farming any longer.

ORDER NO. R-46—Power Take Off Attachment, can be clamped in front to Ford car, R-4 or S-4 Tractor frame in a few minutes and transmits up to 12 H. P. depending on condition of the Ford engine. This is furnished as an extra and is excellent for running belt machinery.

Pull a 16'' Plow With Ease!

We have given these tractorized Fords thorough tests on all kinds of work. They handle a 16-inch plow nicely. They easily pull a 7-ft disc harrow. They handle five 31-inch lawn mowers and pull a heavy steel road drag with two persons riding the drag. They run belt machinery of all kinds. Both the Model R-4 and Model S-4 Tractors are very easily handled.

We recommend the Ferguson Plow for those who wish to plow small as well as large acreages, and the Hummer Plow where there are larger fields to be plowed.

The Model R-4 Tractor is easily loaded into a truck, such as a Ford ton truck, as well as into box cars for transportation. Two planks 2"x10" or 12" and about 14' long can conveniently be used for loading or unloading the tractor.

Where it is not desired to have the Ford frame reduced in length, we recommend our No. S-4E "Jiffy" Equipment which requires no altering of any of the Ford car parts, thus making it very easy for anyone handy with a wrench to clamp the parts into position in a few minutes' time after the Ford body with fenders and wheels have been removed. You will find the No. S-4E "Jiffy" Equipment itemized and quoted on the S-4 order blank.

For small acreage where there is much turning, we recommend the Model R-4 Tractor because this machine will turn in a 15-foot circle. If you have a Ford that you wish to convert into a Model R-4 Tractor and you desire all the machine work done by us, buy the Equipment No. R-4A quoted on the R-4 order blank.

If you have access to a screw cutting lathe and an ox-acetylene or electric welding plant, or desire to have some local machine shop to make all the alterations on your Ford front axle, rear axle with housing and drive shaft with housing, we recommend that you purchase the No. R-4E Equipment quoted on the R-4 order blank.

Or, we can furnish the Complete Model R-4 Tractor, Order No. R-4B, complete with Rebuilt Ford Engine and Radiator, Differential Gearing and Housing, all ready to run, as quoted on the R-4 order blank.

	MODEL R-4 TRACTOR	MODEL S-4 TRACTOR
WEIGHT:	1400 pounds.	1700 pounds.
WHEEL BASE:	50 inches.	86 inches.
TRACTION WHEELS:	34 in. diameter over tires, 8 in. tire, with lugs 2 in. high.	34 in. diameter over tires, 8 in. tire, with lugs 2 in. high.
FRONT WHEELS:	25 in. high, 4 in. tire, with rib in center.	25 in. high, 4 in. tire, with rib in center.
TRACTION WHEELS:		
DISTANCE BETWEEN TIRES:	32 inches.	55 inches.
TRACTION WHEELS,		
DISTANCE FROM OUTSIDE		
TO OUTSIDE OF TIRES:	48 inches.	71 inches.
FRONT WHEELS,		
DISTANCE BETWEEN TIRES:	39 inches.	53 inches.
FRONT WHEELS,		
DISTANCE FROM OUTSIDE		
TO OUTSIDE OF TIRES:	47 inches.	61 inches.
BULL GEARS:	Integral with traction wheels, spokes and hubs; approximately 25 in. diameter, 3 in. face, 72 teeth.	Integral with traction wheels, spokes and hubs; approximately 25 in. diameter, 3 in. face, 72 teeth.
PINION GEARS:	3½ in. diameter, 8 teeth, 3% in. face.	3½ in. diameter, 8 teeth, 3% in. face.
DIAMETER OF REAR AXLE:	2 inches.	2 inches.
LENGTH OF REAR AXLE:	51 inches.	74½ inches.
CLEARANCE UNDER		

WEIGHT:	1400 pounds.	86 inches.
WHEEL BASE:	50 inches.	34 in. diameter over tires, 8 in. tire, with lugs 2 in. high.
TRACTION WHEELS:	34 in. diameter over tires, 8 in. tire, with lugs 2 in. high.	25 in. high, 4 in. tire, with rib in center.
FRONT WHEELS:	25 in. high, 4 in. tire, with rib in center.	55 inches.
TRACTION WHEELS:		
DISTANCE BETWEEN TIRES:	32 inches.	71 inches.
TRACTION WHEELS,		
DISTANCE FROM OUTSIDE	48 inches.	53 inches.
TO OUTSIDE OF TIRES:		
FRONT WHEELS,		
DISTANCE BETWEEN TIRES:	39 inches.	61 inches.
FRONT WHEELS,		
DISTANCE FROM OUTSIDE	47 inches.	Integral with traction wheels, spokes and hubs; approximately 25 in. diameter, 3 in. face, 72 teeth.
TO OUTSIDE OF TIRES:		3½ in. diameter, 8 teeth, 3¾ in. face.
BULL GEARS:	Integral with traction wheels, spokes and hubs; approximately 25 in. diameter, 3 in. face, 72 teeth.	2 inches.
	3½ in. diameter, 8 teeth, 3¾ in. face.	74½ inches.
PINION GEARS:	2 inches.	
DIAMETER OF REAR AXLE:	51 inches.	
LENGTH OF REAR AXLE:	10 inches.	
CLEARANCE UNDER	About ½ mile to 5 miles per hour (working gear).	About ½ mile to 5 miles per hour. (working gear).
FRONT AXLE:	2½ to 3 miles per hour.	2½ to 3 miles per hour.
SPEED:—ON HIGH GEAR	About 4 gallons of gasoline in 10 hours, according to the nature of the work and soil.	About 4 gallons of gasoline in 10 hours, according to the nature of the work and soil.
PLOWING SPEED ON HIGH GEAR		
GASOLINE CONSUMPTION:		

The two illustrations below will give an idea of the difference in the size of the tractors. The wheels are the same size on the two tractors and you will note that they are the same size in the illustrations.

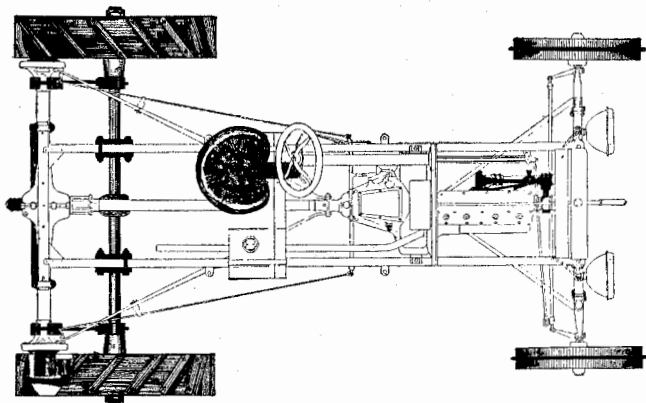


Illustration No. 5.

MODEL S4 TRACTOR consists of No. S-4E "Jiffy Equipment" on Ford. The above view shows our "Jiffy Equipment" (the heavily shaded parts) attached to an ordinary Ford Car Chassis with Engine. No changes whatever are made as all of our No. S-4E "Jiffy Equipment" can be clamped into position in a few minutes by following the instructions which accompany each shipment.

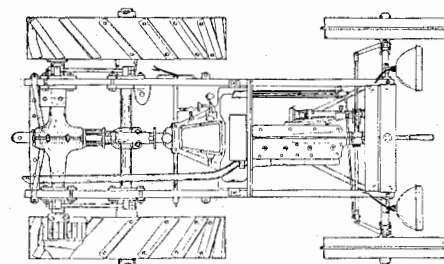


Illustration No. 6.

MODEL R4 TRACTOR

The seat and steering wheel are not shown above in order that other parts may be shown.

It is necessary to cut down some of the Ford car parts in making this model. This is a more expensive tractor to build than the Model S-4 but on account of the short wheelbase and narrow tread it is well adapted to small fields.

SHAW MANUFACTURING COMPANY,

le Tractor From Your Old Ford!

pulls a 16" Plow, Discs, Seeds, Cultivates, Runs Belt Machinery



Illustration No. 7.

The Model R-4 Tractor Pulling Steel Road Drag Weighted with Rocks. This is a four horse job; the Model R-4 does the work easily and efficiently.



Illustration No. 9.

The Model R-4 Tractor Equipped with the No. R-412 14" Ferguson Plow. Flows 10" to 12" deep very nicely.



Illustration No. 8.

Model R-4 Tractor Pulling Ordinary Harrow. It will pull the harrow nicely in mellow as well as hard or cloddy ground.

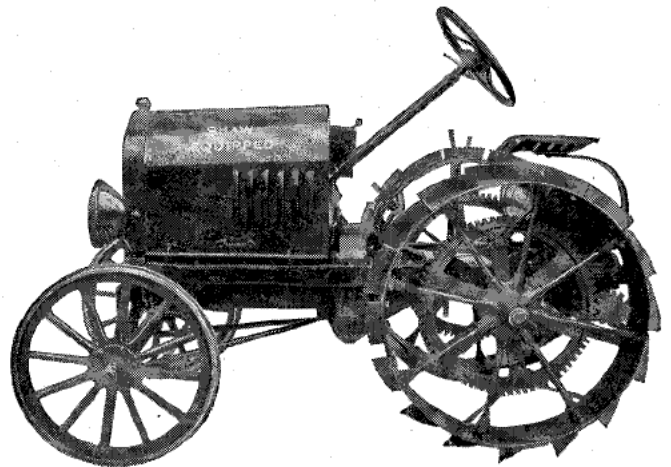


Illustration No. 10.

Model R-4 Tractor.



Illustration No. 12.

Model R-4 Pulling 7 Ft. Disc Harrow in High. Either the horse or the small farm tractor type disc harrow is all right for this tractor.



The Model R-4 Tractor Equipped with the No. R-412 14" Ferguson Plow. Flows 10" to 12" deep very nicely.



Illustration No. 12.

Model R-4 Pulling 7 Ft. Disc Harrow in High. Either the horse or the small farm tractor type disc harrow is all right for this tractor.



Illustration No. 11.

Model R-4 Pulling a 4-Horse Gang Plow with Two 12 Inch Bottoms, in High Gear. We recommend plows designed for tractors and controlled from the tractor seat instead of the type plow shown above.

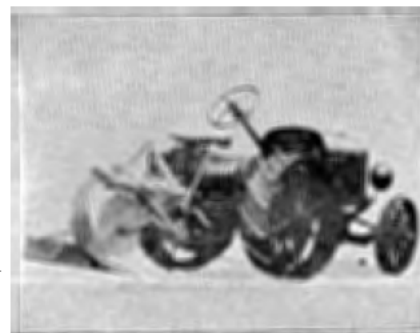


Illustration No. 13.

Model R-4 Equipped with Ferguson Plow No. R-412.

Either the Model S-4 or the Model R-4 Tractor can be used to pull a riding cultivator and other similar tools, and one operator can handle both tractor and cultivator by running extension controls to the tractor foot pedals, steering wheel and spark and throttle control levers. Or a special cultivating device can be attached direct to the tractor by having a seat attached down low back of the tractor, and the feet can be used to control these cultivating tools, similar to the ordinary riding cultivator. The controls can all be extended as mentioned above. If you are interested in something along this line, state your requirements and we will be glad to quote prices.

The picture to the left, reproduced from a photograph sent in by Mr. H. S. Chambers of Manistee, Michigan, shows how he has arranged the controls on the machine built up from the No. R-4E Equipment which he purchased from us. You will note that Mr. Chambers has placed the gasoline tank over the engine.



Illustration No. 14.

Center And Front Streets, Galesburg, Kansas

THE CRAWFORD FAN

Moves 6 Times More Air

Both the Ford and Fordson depend on the thermo siphon cooling system. As the water is heated in the jacket it rises and enters the top of the radiator. Cooled water takes its place in the jacket from the bottom of the radiator. It is in passing downward through

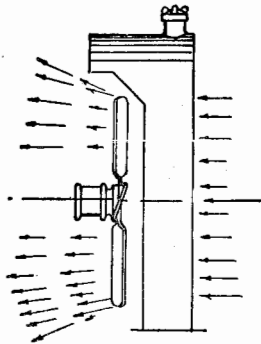


Illustration No. 16.

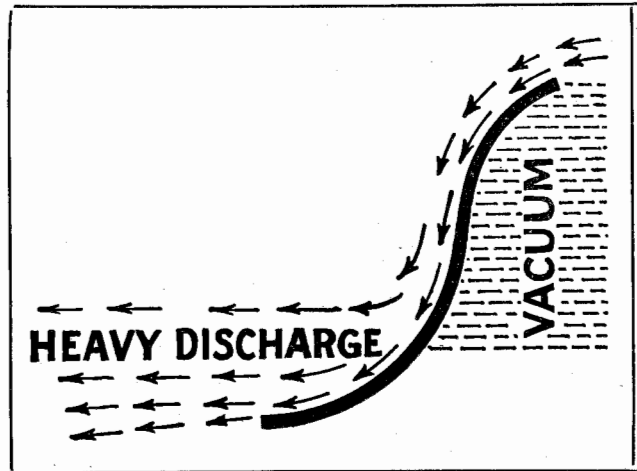


Illustration No. 15.

THE ordinary fan draws just so much air through the radiator then begins to work against itself by reason of the fact that it scatters air currents in all directions and not far enough away from the area in which it whirls. Its lack of suction and thrust causes it to keep stirring the same air after a certain limit is reached. Especially is this emphasized when car or tractor is idle and motor harnessed to belt work.

the radiator that the water is cooled. Its heat radiates into the air through the copper honey-combing. The amount of heat absorbed from the water by the air is proportionate to the amount of air drawn through the honey-combing.

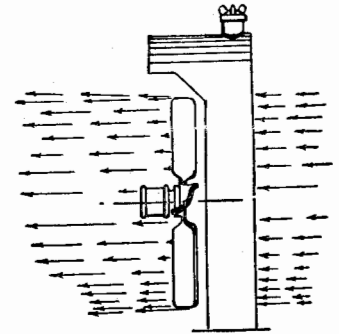


Illustration No. 17.

The Crawford Universal Fan has a sharp curvature at the cutting edge of the blade. This creates a vacuum on the intake side of the blade which eliminates resistance from back pressure and greatly increases the suction through the radiator. The discharge side of the blade has just the right curvature to thrust the air currents, picked up by the cutting edge of the blade, in a direct line parallel with the crankshaft of the motor and beyond a point where back pressure can work against the fan. The pull of air through the radiator is so strong that a felt hat held in front will be drawn against the radiator and held. It will do this with the motor running at a 10 mile per hour speed.

Illustration No. 15.

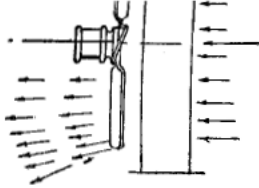


Illustration No. 16.

THE ordinary fan draws just so much air through the radiator then begins to work against itself by reason of the fact that it scatters air currents in all directions and not far enough away from the area in which it whirls. Its lack of suction and thrust causes it to keep stirring the same air after a certain limit is reached. Especially is this emphasized when car or tractor is idle and motor harnessed to belt work.

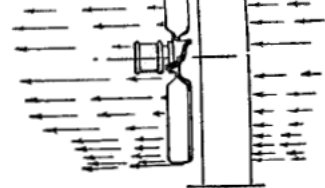
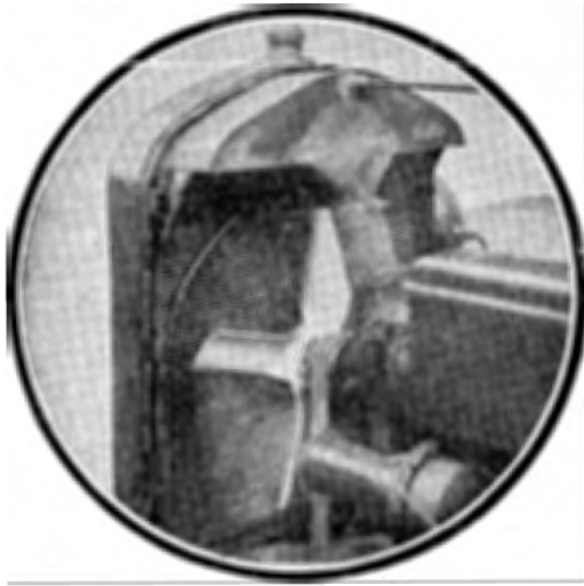


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Since the maximum of air is drawn through the radiator by the Crawford Universal Fan, the maximum of heat is absorbed into the air from the water entering the radiator. Also, the strong currents of air rushing rearward from the fan promotes greater radiation of heat through the water jacket on the engine block.

Photograph below shows Model T Crawford Fan installed on Ford car. Model T is also used on the Ford truck.



Easily Put On in 10 Minutes

THE Crawford Universal Fan bolts onto the regular Ford or Fordson belt pulley, using the same bolts as hold the regular fan in place. It can easily be put on by anyone in ten minutes or less. It comes in two sizes—Model T for Tractorized Fords, Ford cars or ton truck and Model FT for the Fordson Tractor. Either the car or tractor fan comes in two pieces with four blades.