

# PACKARD MOTOR CAR COMPANY

DETROIT MICHIGAN

February 14, 1930

To PACKARD DISTRIBUTERS AND DEALERS

Subject TOOL CATALOG

REFER TO THIS LETTER BY NUMBER

TO BE NOTED AND INITIALED BY


Gentlemen:

We are forwarding under separate cover, a Tool Catalog with the new up-to-date prices and latest tool inserts.

This book is to replace the one you now have. It is being sent to you "no charge" and may we ask that you check this over and order the new tools you may require.

Yours very truly,

PACKARD MOTOR CAR COMPANY

HCT:ES  
(b) 2200  
Dealers' G.L. No. 294

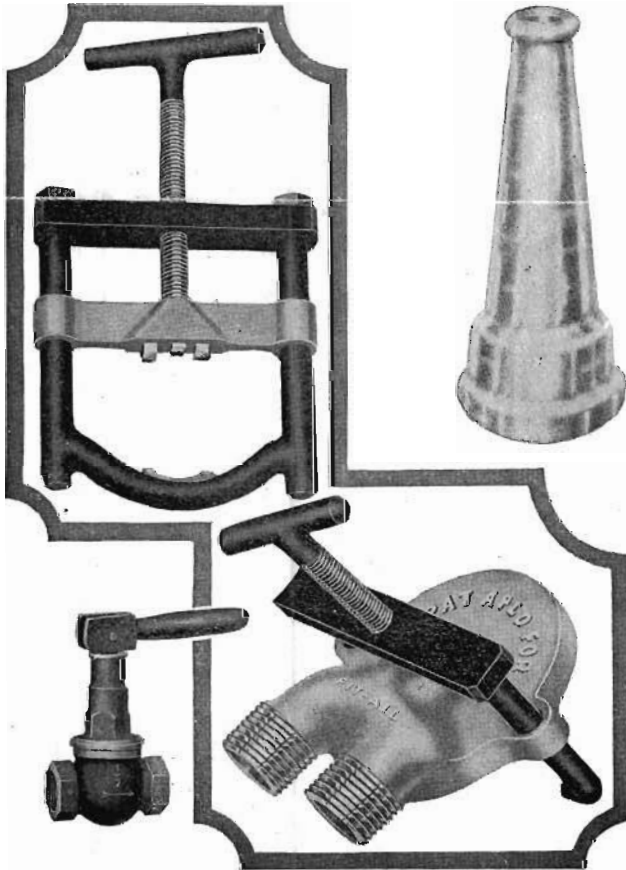
H. C. Taylor  
Service Department

∴ ANOTHER WORLD'S MASTERPIECE IN THE AUTOMOTIVE TOOL FIELD ∴

The **FIT-ALL** — RADIATOR  
CLEAN-OUT TOOL

REGISTERED UNITED STATES PATENT OFFICE

CLEANS RADIATORS AND ENGINE  
BLOCKS IN FIVE MINUTES



THE FIT-ALL does just what its name implies—it fits them all because it is instantly adjustable to the size of - - any radiator or motor block hose connection.

**No Experience Required**

Your helper or boy on the wash rack can operate this equipment with the same degree of efficiency as your highest paid mechanic and clean radiators and motor blocks with it in five minutes that would require hours to clean with older expensive methods in the hands of radiator experts.

**PRICE COMPLETE**  
AS SHOWN WITH  
AIR VALVE AND NOZZLE

**Only \$15.40**

**Without a Doubt The Most Wonderful Tool Ever Sold at Any  
Price For The Rapid Cleaning of Radiators And  
Engine Blocks**

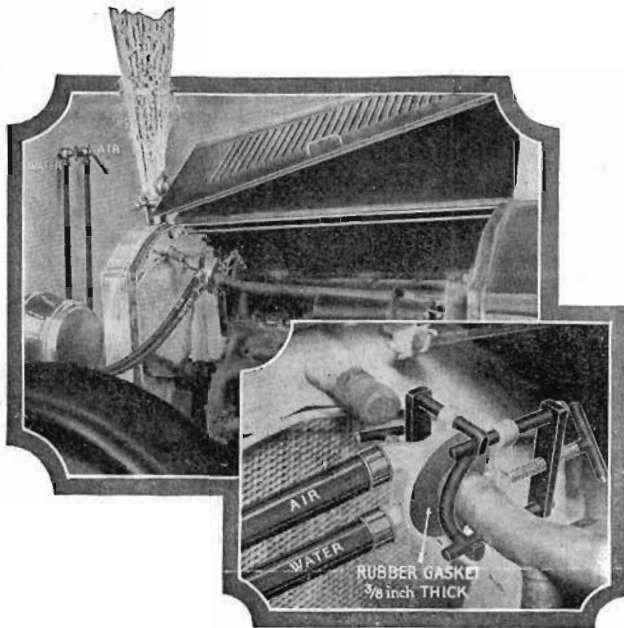
THE TOOL IS FOOL-PROOF—WORRY-PROOF AND TROUBLE PROOF  
RADIATORS MAY BE CLEANED EITHER ON THE CAR OR OFF

**No Complicated Parts to Get Out Of Order—Will Last For Years**

**SAVES OR MAKES YOU MONEY**

**AT RATE OF \$20.00 PER HOUR WHEN IN USE!**

MANUFACTURED BY ECHOLS BROS. RADIATOR WORKS  
FORT WORTH, TEXAS, U. S. A.



## Here's How

... to clean radiators without removing them from the car. The block must be cleaned first as it has quite a bit of loose particles in it such as sand blast, rust, alkali scale, small pieces of cooked rubber hose and other foreign matter.

So—we don't want to blow this dope into the lower tank of the radiator as this would stop the core up on the lower end.

Detach the top hose from radiator and block. Detach the lower hose from radiator

THE VIEW SHOWN AT RIGHT OF THE FIT-ALL RADIATOR CLEAN-OUT TOOL is shown in order that you may see just how simple and fool-proof it is and how easy it is to fasten it onto any radiator—regardless of the size of the connection.

You will note—it is instantly adjustable to the size of any radiator or motor block hose connections merely by the turning of thumb screws.

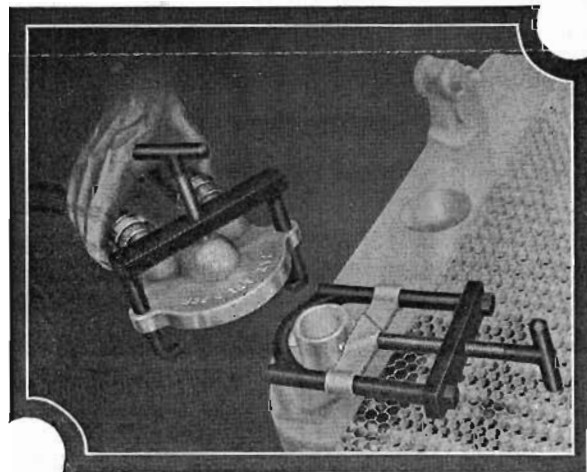
Air-tight seal is made on the radiator connection by then slipping the cap over the U which shows to have its tool steel death grip on the casting—then turn screw down on the cap which man is holding in his hand, this forces the casted radiator connection to press into the virgin rubber gasket. It can't slip or blow off—see illustration showing gasket pressed into water manifold connection.

only. Connect the Fit-All to the motor block water manifold as shown.

Turn on the water and when you hear it spilling out on the floor—jerk the air valve open and your block is cleaned of this foreign matter instantly.

We now have a clean block and are ready to clean the radiator. Leave your Fit-All connected to the motor block water manifold. Now connect the lower hose back to the radiator. Remove the radiator cap. Turn on the water and when it overflows at the filler neck of the radiator, turn on air pressure and Z-O-W-I-E out comes all of the same stuff which had the radiator stopped up on the head of the core. Repeat the operation four or five times and you will have the radiator cleaned out.

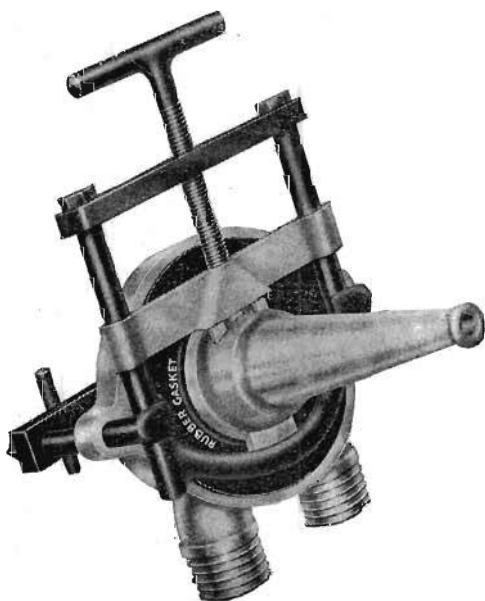
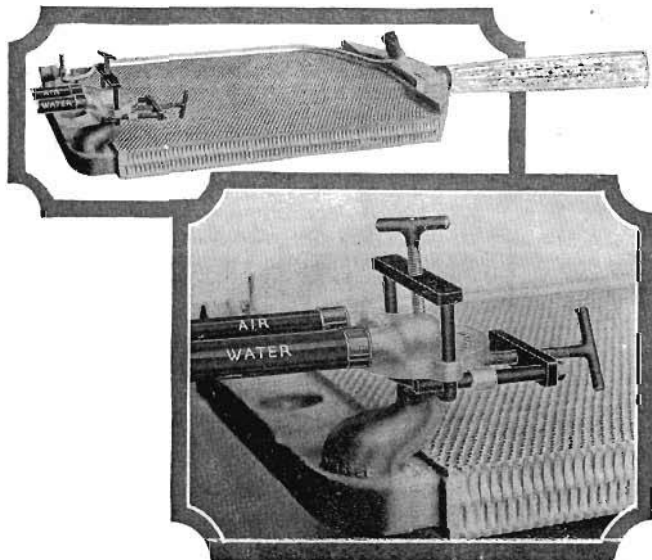
For best results use 70-pounds of air pressure. This is an open passing pressure through the block and radiator and must not be confused with a sealed air tight pressure such as you would have if you did not remove the radiator cap. Seventy pounds of open passing pressure is equal to about 6 pounds of steady pressure. Any good radiator should be tested under 10 pounds pressure before leaving the manufacturer. So you see that positively no harm can come from the use of 70 pounds of passing air pressure. In some cases you might decide to use more than 70 pounds of air pressure when cleaning big truck radiators.



If you don't want to take any chances of soiling the appearance of the car with the dope that is blown out of the radiator—remove it from the car and clean the radiator as shown at right.

If you now have a boiling and pump system where chemicals are used, connect the Fit-All to your radiator and blow out the dope first as this will cut your chemical bill to practically nothing as you do not contaminate the solution with the dope you blew out of the radiator with the Fit-All. By so doing you also speed up your production 500%, as you do in minutes what it is now taking hours to do.

The Fit-All is a perfected tool and is in constant use in our own plant. Nothing to get out of order. Fool-proof and positive in action. Your helper or boy on the wash rack can do the job as well as your highest priced mechanic.



The view shown at left shows how nozzle is connected to the Fit-All Radiator Clean-Out Tool. Use this special nozzle when you find insects of large size which are fastened securely in the core and apparently cannot be blown out of the air passages without its use.

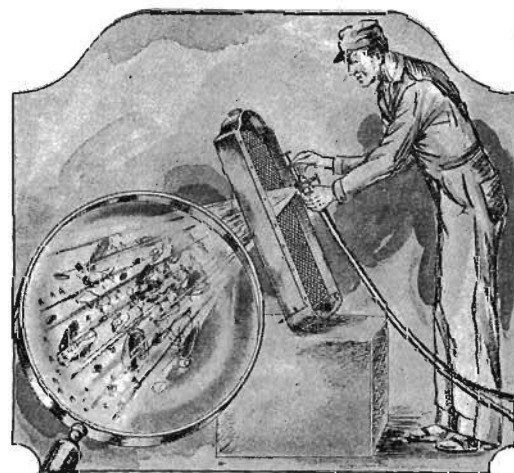
See view below blowing insects and filth out of the exposed air passages.

Turn both air and water on at the same time when using the nozzle and the force coming out the small 5-16 inch outlet hole in the end of nozzle enables you to cut the larger insects to pieces instantly and blow them out.

## CLEANING OUT AIR CELLS

The Air Cells of all radiators become clogged with mud, insects, grass, straw, paper and all other kinds of filth from the street and highway—virtually stopping them up which cuts off the circulation of air against the core of the radiator.

Both circulation of air and water are necessary for proper cooling and by using the Fit-All Radiator Clean Out Tool you are assured of both, as it cleans them inside and out in a jiffy.



# HOW TO CONNECT AIR AND WATER LINES TO THE FIT-ALL RADIATOR CLEAN-OUT TOOL

On page 2 you will see an ideal arrangement showing both air and water lines close together which makes it very convenient when handling the hose as well as having a regular place to hang the Fit-All up when it is not in use.

Arrange to do your radiator cleaning near your car washing department or any place where there is a sink in the floor in order that the filthy foreign matter blown from the radiators will have some place to drain into. Many concerns do this work on the outside of their buildings.

For best results run not less than one-half inch air and water line to this location. If you now have a small air line to this location and it would prove expensive to run one-half inch line on account of the distance from your air drum, then purchase you a small air drum tested to stand 150 pounds of working pressure and pipe the smaller line into it. This will make an ideal hook-up as you have a volume of air close at hand and gets you away from the resistance you would have on the air traveling a long distance in a small air line.

The small drum mentioned above can be purchased for approximately \$12.00. This will add to your air reserve and gives you volume without resistance and we might add that we have exactly this same hook-up in our own plant.

We do not sell the air drum. Same can be purchased from any Automobile Supply Jobber or Hardware Jobber.

When your Fit-All Radiator Clean-Out Tool arrives go to any store selling garden hose and purchase two lengths of a good grade. One for water and the other air, as shown on page 2. Connect one of the hose to

your water line and the other to your air line as shown and then connect both of the other ends to your cap on the Fit-All and you are ready for business.

## ***The Threads on the Fit-All Are Garden Hose Threads***

USE SEVENTY POUNDS OF AIR PRESSURE BEHIND THE WATER WHEN CLEANING PASSENGER CAR RADIATORS AND INCREASE THIS ON ALL LARGE TRUCK RADIATORS. Remove radiator caps.

## ***Important Instruction About The Air Valve***

Each valve has an arrow on it indicating the way the air travels through the valve and should you by any chance hook the air valve on in reverse order it will leak due to the fact the valve is equipped with a flexible disc, which seats the valve by air pressure.

Should the above mistake occur in connecting the valve to your air line merely take it off and reverse it or in other words turn the valve around, thereby creating a positive seal.

The lever can be placed in any convenient position without disturbing the valve body. It automatically locks itself in either position and can be changed instantly from one position to the other. The valve is either open or shut. There is no guess work—no chance for workmen to fail to close it tight and leak air.

## **CAUTION**

Flush out all radiators and motor blocks with the Fit-All before putting in anti-freeze solutions as most of the solutions causes the foreign matter to loosen up and it is instantly picked up by the action of the water pump and transferred into the top tank of the radiator and the core catches it in the same way a milk strainer catches small objects in milk—thus resulting in a stopped up radiator.

When winter is over flush out the solution and the accumulated sediment with the Fit-All Radiator Clean-Out Tool in order to insure summer care-free driving and prolong the life of the motor which results in a satisfied customer.

Complete Instructions Sent With Every Tool

MANUFACTURED BY ECHOLS BROS. RADIATOR WORKS  
FORT WORTH, TEXAS, U. S. A.