MARVEL CARBURETER

-AND-

HEAT CONTROL

---

As used on 1927-28
Hudson Super-Six

"BOOKLET B"

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MARVEL CARBURETER CO.
FLINT, MICHIGAN

U. S. A.
MODEL "B" CARBURETER
Used on Hudson 1927-1928 Super-Six Cars

The carbureter measures the fuel charges for the engine and automatically mixes them with the proper amount of air to form a highly combustible gas. The Marvel model "B" carbureter is of the automatic air valve, heat controlled type. Its outstanding advantages are:

1. Simplicity of adjustment and operation.
2. Quick starting in any weather.
3. Automatic and manually controlled heat application to insure complete vaporization of fuel and maximum quick warming-up in coldest weather, thereby reducing over-use of the choker and resultant crankcase dilution to the minimum.
4. Economy in fuel consumption.
5. Ease of adjustment of heat control to meet varied driving and climatic conditions.

CONSTRUCTION

The construction embodies a main body or mixing chamber and a conventional float chamber bowl with fuel strainer attached at point of entrance of fuel to bowl. Within the mixing chamber are two nozzles which proportion the amount of gasoline used in the mixture. One of these nozzles, called the "low speed," is regulated by the gasoline adjustment needle at the bottom of carbureter and the other, called the "high speed," is controlled by the automatic air valve. An air screw is provided which regulates the pressure of the air valve spring enclosed therein. Within this screw is also enclosed a plunger connected by a link to the air valve. The function of this plunger is to provide a resistance in addition to that of the air valve spring to assist in acceleration. This arrangement of plunger and air valve screw is termed the dash pot.

A further control of the high speed jet is provided by the "economizer" which is a fuel metering valve operated by the carbureter throttle. This valve provides the maximum fuel feed to the "high speed" nozzle when the throttle is fully opened for high speeds, hill power and for quick "pick-up." During the ordinary driving ranges this valve controls the amount of fuel being used, thus providing all the economy possible. This valve is entirely automatic and requires no adjustment.

A choke button is provided on the instrument board to assist in starting. Pulling out this button closes a butterfly valve in the air intake passage of carbureter which restricts the air opening of the carbureter, and consequently produces a richer mixture. This button should be released part way at once upon starting, and fully released as soon as engine will run without it.

A control lever is also placed on the instrument board to provide for manual regulation of heat control in addition to the automatic heat control mechanism of the carbureter.

HEAT CONTROL

The carbureter and manifolds have been designed to utilize the exhaust gases of the engine to insure complete vaporization and a consequent minimum consumption of fuel. This is accomplished by an exhaust jacket in a double walled riser placed between the carbureter and the intake manifold. This riser is connected to the exhaust manifold in such a manner that the exhaust gases pass between the walls of the riser, through the heat jacket and the outlet to the exhaust pipe. The amount of heat thus furnished to the riser is controlled by two valves; one in the main exhaust above the exhaust, outlet from riser and one in the exhaust inlet of riser heat jacket.

The valve in the main exhaust in connected to the, throttle lever of carbureter in such a manner that the greatest amount of heat is had in the jackets of riser when the throttle is only partly open, as in idling and at low speeds, and a decreasing amount as the throttle is opened further for higher speeds. By means of the heat control lever below instrument board this automatic action of the heat valve may be varied to suit weather and driving conditions.

The valve described above in main exhaust line kit rear end of engine is housed in a separate casting. On the front side of this casting will be noticed a boss acting as a locating stop for the damper valve lever. This stop indicates the closed position of the damper valve and is to be used in assembling control rod to carbureter, the normal position of valve being against this stop boss when heat control on instrument board is set at "Hot" position and throttle is closed.

The control lever below instrument board operates the valve in the exhaust inlet of the riser heat jacket simultaneously with the valve in the main exhaust and an adjustment by moving control lever to "Cold" may be had to the point where no exhaust gases pass through the riser jacket thereby shutting off all the heat.

Gases from the main exhaust enter at opening "N" at back of riser (see Figure 1) and pass through riser jackets, returning to exhaust pipe below valve "A."

It will be noted in Fig. 1 that valve "A" is connected by means of connecting rod "H" to roller "E" operating in slot "D" of cam "C." The roller "E" is connected by means of a short, loose jointed, free lever, to lever "F" which in turn is attached in fixed position to throttle shaft "G." As
In Figure 2, showing "wide open" position, it will be noted in cut that this valve "B" is held by the lever "J" as stated. In the Figure 1 showing "Hot" or WARM UP POSITION, owing to action of slot "D" in cam "C" on position of valve "A" as throttle is opened, valve "A" is caused to remain closed (thus insuring most heat) until engine has attained a speed of approximately forty to forty five miles per hour, after which at higher speed it opens automatically and rapidly to "wide open " thus insuring against back pressure and overheating.

The valve "B" in riser heat inlet is connected by a lever and link to the cam "C," the position of which is controlled by the lever "J" as stated. In the "Hot" or WARM UP POSITION it will be noted in cut that this valve "B" is held wide open.

In Figure 2, showing "Medium" Driving Position, owing to the cam "C's" position having been changed from "Hot," valve "B" is now partly closed.

making frequent stops. If temperature of air is 85º or above, drive with lever "J" further toward "Cold" from "Medium" or on "Cool," and in extremely hot weather on "Cold."

For economy and best engine performance it is essential that driving be done with control lever "J" as near center at "Medium" position, as shown in Figure 2 as driving and weather conditions permit.

In Figure 3, showing "Cold" position, owing to the cam "C's" position being still further changed by the control lever "J" below instrument board, the valve "A" at CLOSED THROTTLE POSITION is already open partially, and opens quickly with throttle to full wide open position. At the same time it will be noted that valve "B" has been closed by cam "C" thus insuring in this setting no heat circulation through the system.

This, as stated, is the setting used only during hot weather or under certain constant heavy road conditions when engine appears to lose power because of too much heat.

STARTING

To start, engine, set heat control lever "J" to "Hot" position, pull out choke button all the way. Advance spark lever about half-way and OPEN THROTTLE ABOUT ONE-THIRD WAY and depress starter pedal. The moment the engine fires the choke button should be pushed in to part release, and the throttle closed slightly so that engine be allowed to run at fairly good speed for quarter to half minute. If engine hesitates, pull out choke button and push back in at once to a point where engine runs smoothly during this short period, the object being to secure momentarily a richer mixture to assist engine in warming up. Even in zero weather it is not necessary to run with choker out, except momentarily when just starting cold engine. It should be borne in mind that the automatic heating system of the carbureter makes it entirely unnecessary to drive with choker pulled out and one of the objects of the heating system is for this purpose, thereby obviating the common practice of diluting the oil in the crankcase by using an excess amount of fuel from over-choking while engine is warming lip.

It should be remembered in cold weather that the position of the heat lever largely controls the performance. Therefore, where quick acceleration is desired in cold weather, drive with heat enough to provide same which will not be obtained if control is too near "Cold" position. As stated before, normal weather driving, the heat control may be set half-way, at "Medium" and in hot weather further toward the "Cold" position at end of lever travel if desired - the full "Cold" position to he recommended however, only in extreme hot weather under hard driving conditions.

ADJUSTMENT

No change should be made in the carbureter adjustments until after an inspection has been made to determine if the trouble is in some other unit. It should be noted that the gasoline lines and strainer are clear, that there is gasoline in the vacuum tank, that there are no leaks at connections between carbureter and engine, that the ignition system is in proper condition, and that there is even compression in all cylinders.
Adjustment (Cont’d)

If it is necessary to test adjustments or to make a readjustment proceed as follows:

Set air screw so that end is flush with the end of ratchet set spring. Turn gasoline adjustment to the left very carefully until the needle head rests against its stop. Then turn to the right to bring the notch in the disc handle directly below the guide post above it.

The notch in the disc handle of needle is put in handle after the needle has been carefully calibrated by a flowmeter at the factory, to the "Normal Setting" therefore the notch in handle should register with guide post above it. This setting of needle valve is absolutely essential to get the best results, and is termed the "Normal Setting," because it is the standard fuel flow for this engine.

To provide for extremes of hot and cold weather a limited range of adjustment is provided on this needle: more than "Normal," by turning to the left until against stop, or less then normal, by turning to the right against stop. THESE POSITIONS, AS STATED, ARE ONLY FOR EXTREMES OF HOT AND COLD WEATHER, where an owner may desire a little more mileage in hot weather, or a little quicker acceleration in zero weather, and are not to be understood as necessary seasonal adjustments, as satisfactory performance and mileage may be obtained in any kind of air temperature with the needle in "Normal," at the notch.

The heat control provides for atmospheric variations. With needle set at "Normal," set heat control lever "J" on dash at "Hot" position, and leave in this position while making adjustment. Pull out choker to closed position and start engine in usual manner. When its engine has fired, release choker. Run for a moment until engine has warmed up, remembering to never use choker more than necessary, as when not needed it, has a tendency to foul up engine and ruin the lubricating oil in the crankcase.

Next, set air screw for good idle by either turning in to the right a little or backing out to the left its the needs of the engine require, remembering that first of all, the needle must be set as described at "Normal." With the needle so set and the engine warmed up, the adjustment of the air screw for proper idling is easily accomplished by using a little care. If the air screw is turned in too tight, the motor will roll. If the air screw is not tight enough, the motor will hesitate and perhaps stop entirely. To make a nice clean adjustment for idle, first having set needle at " Normal" as described, turn air screw in quarter of a turn at a time until engine rolls, through richness. then turn back to the left until engine hesitates, indicating that mixture has too much air and is too lean; next turn air screw in to the right three of four notches at a time until engine runs smoothly. This idle setting accomplished, by proceeding as directed above, the proper adjustment for the entire range of the engine will have been attained.

If the engine idles too fast with throttle closed, the latter may be adjusted by means of the, throttle lever adjusting screw.

CAUTION

It must be remembered that the low speed needle has been carefully calibrated to "normal" notch in disc handle and guide post above it, at the factory and that in checking or making an adjustment that the needle must be so set and the rest of the adjusting done with the air screw as described.

Do not vary needle setting from "Normal" unless in extreme cold weather to open up, or in extreme hot weather to cut down fuel flow a little. Never have needle opened beyond "Normal" in hot weather, nor below "Normal" in cold weather. If in doubt as to needle adjustment always leave it "Normal."

ALTITUDE CHANGES

No change is necessary for touring thru mountainous country but for cars operating permanently in territory of 4000 feet elevation or over we advise going to the nearest Hudson dealer or Marvel service station and changing to 49-225-D-28 High Speed Jet for the best results such altitude territory.

Do not, under any circumstances, make this change unless operating permanently above 4000 feet elevation.
## PARTS PRICE LIST

**MARVEL CARBURETER MODEL "B"**

*For 1927-28 Hudson Super-Six*

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<td>Body to Bowl Lock Screws</td>
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**FRONT END DAMPER BODY ASSEMBLY**

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MARVEL CARBURETER DISTRIBUTORS

Automotive Electric Shop,
   23 W. Mt. Royal Avenue, BALTIMORE, Md.
Birmingham Elec. Battery Co.,
   Ave. B and 23rd St., BIRMINGHAM, Ala.
Marvel Carbureter Sales Company,
   335 Newberry St., BOSTON, Mass.
Woodside Motor Company, CHARLOTTE, N. C.
Hassler Brothers,
   816 Chestnut Street, CHATTANOOGA, Tenn.
Marvel Carbureter Sales Co.,
   2427-31 S. Prairie Avenue, CHICAGO, Illinois.
Marvel Carbureter Sales Co.,
   2013 East 65th St., CLEVELAND, Ohio.
Schoth Sales Company,
   1622 Broadway, DENVER, Colorado.
The Cavanaugh Company,
   42-56 E. Canfield Avenue, DETROIT, Michigan.
Moloney Battery & Ignition Co.,
   409 Montana St., EL PASO, Texas.
Marvel Carbureter Sales Co.,
   1406 McGee St., KANSAS CITY, Mo.
McNutt & Burkes, Inc.
   307-11 No. Central S., KNOXVILLE, Tenn.
Marvel Carbureter Sales Co.,
   1837 S. Flower St., LOS ANGELES, Cal.
McGregor Battery Engineering Co.,
   Union and Marshall Ave., MEMPHIS, Tenn.
W. S. Nott Company,
   2nd Ave. N. and 3rd St., MINNEAPOLIS, Minn.
Keith-Simmons, Inc.
   NASHVILLE, Tenn.
Marvel Carbureter Sales Co.,
   242 West 69th St., NEW YORK, N. Y.
Motor & Equipment Company,
   RALEIGH, North Carolina.
Westbrook Carbureter & Electric Company,
   SAN ANTONIO, Texas.
Automotive Elec. Service Co.,
   475 S. Main St., SALT LAKE CITY, Utah.
McAlpin-Schreiner Company,
   1520 Tenth Avenue, SEATTLE, Wash.
Motive Parts Co. of Florida,
   213-B Hyde Park Avenue, TAMPA, Florida.
Tompkins Garage & Service Co.,
   17th & Kalaroma Road, WASHINGTON, D. C.

All export business handled direct through our factory

MARVEL CARBURETER CO.
   FLINT, MICH., U. S. A.

MARVEL CARBURETER DOMESTIC SERVICE STATIONS

AKRON, Ohio - The Maibohm Battery & Ignition Company.
ALBANY, N. Y. - 418 Hamilton Street, John F. Pierce Garage.
ALLENTOWN, Pa. - 1041 Hamilton Avenue, Motor Accessories Company.
BELLINGHAM, Washington - Paul Tiffany.
BOULDER, Colorado - Jenk's Garage.
BUFFALO, New York - 1557 Main Street, Lloyd Smith.
CANON CITY, Colorado - 708 Main St., Bliley-Walker Service Station.
COLUMBUS, Georgia - The Auto Supply Company.
COLUMBUS, Ohio - Hughes Scott Company.
COURTNEY, B. C. - Blunt & Ewart.
ERIE, New York - 118 E. 11th Street, Hanson & Keihlmeier.
EVERETT, Washington - 2817 Rucker Avenue, Proctor Motor Company.
GREENSBORO, North Carolina - Greenboro Auto & Electric Company.
HOUSTON, Texas - 1507 Fannin St., Westbrook Carbureter & Electric Company.
INDIANAPOLIS, Indiana - 2320 Pierson, St., Marvel Carbureter Service Co.
LANSING, Michigan - Capitol Battery Shop.
LAS CRUCES, New Mexico - Turner Battery & Electric Station.
LEWISTON, Idaho - Robins Battery & Ignition Company.
LYNCHBURG, Virginia - 12th St., Service Garages.
MARSHFIELD, Oregon - P. J. Rooney Company.
MILWAUKEE, Wisconsin - 598 Jefferson St., Storage Battery Service Company.
MT. VERNON, Washington - Carl E. Lindbery Company.
NEW CASTLE, Indiana - John W. Shopp.
OAKLAND, California - 23rd and Veldex, G. E. S. Company.
PALATKA, Florida - W. C. Gunn
PHILADELPHIA, Pa. - 1625 N. Sydenham St., Marvel Carbureter Sales Co.
PITTSBURGH, Pa. - 5157 Liberty Avenue, Electrical Equipment Service Co.
PORTLAND, Oregon - L. H. Buntzel Company.
PORTLAND, Oregon - 111 13th Street, Henry Ward & Company
RICHMOND, Virginia - 713 W. Broad St., Chadwick Motor Supply Company
ROCHESTER, New York - Gordon A. Frank
ROCKVILLE, Md. - Reed Brother,
SALISBURY, Md. - Dallas H. Moore.
SAN FRANCISCO, California - 1726 California St., Hanni Auto Rep.
SAN JOSE, California - Lehmann Brothers
SCOTLAND NECK, North Carolina - Auto Parts & Sales Company.

STOCKTON, California - Miner Ave. and California St., J. M. McGillivray.
SUFFOLK, Va. - Suffolk Motor Company.
TACOMA, Washington - 218 St. Helens Ave., Athow Auto Repair Shop.
TERRE HAUTE, Indiana - Robert M. Smith Automotive Supplies.
VANCOUVER, B. C. - Roy Howard, Ltd.
VICTORIA, B. C. - Auto Electric & Battery Co., Ltd
WILMINGTON, Delaware - 9 West 12th St., Harry S. Williams.
YAKIMA, Washington - Wm. C. Wright Company.