

## CARBURETER INDEX AND PRICE LIST

| Year    | Carbureter Numbers | Car Model         | List Price | Exchange Allowance |
|---------|--------------------|-------------------|------------|--------------------|
| 1940-41 | 6C1-6C2            | T88-T89           | Use 6DIR†  |                    |
| 1940-41 | 6D1                | T88               | Use 6DIR†  |                    |
| 1940-41 | 6DIR               | Retail            | \$15.00    | \$2.00             |
| 1940-42 | 6E1                | T90-T91-T128-T130 | 15.00      | 3.00               |
| 1941-42 | 6F1                | T98-T128-T130     | 15.00      | 2.00               |
| 1941-42 | 6G1                | T130              | 15.00      | 2.00               |

† 6DIR Carbureter will be shipped on orders for 6C1, 6C2 or 6D1. The instructions below should be followed when 6DIR Carbureter is used to replace 6C1, 6C2 or 6D1.

6C1—Use the following parts which are packed in carton with carbureter:—4-238S, 4A-39S, and 62-118S.

6C2—No additional parts necessary.

6D1—Use 156-29 gas line connection which is packed in carton with carbureter.

## DODGE TRUCKS CAB-OVER-ENGINE 1940 thru 1942

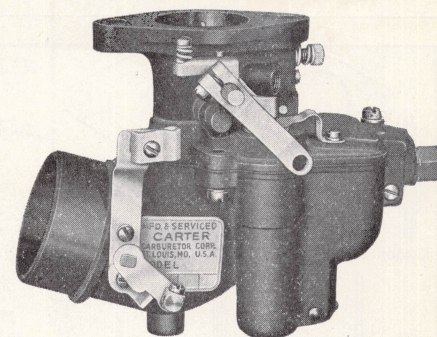
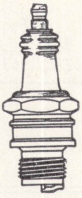
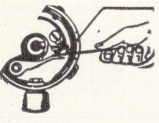
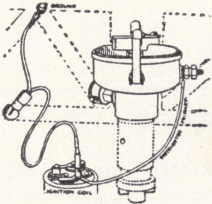
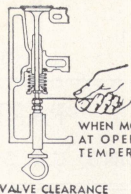
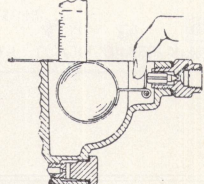


Figure shows 1940 Carbureter, No. 6C1.

### MOTOR TUNE-UP—BE ACCURATE! ALWAYS USE FEELER GAUGES!

CAUTION: Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carbureter.

|                                                                                    |                                                                                    |                                                                                    |                                                                                                                                                   |                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  | <br>WHEN MOTOR IS AT OPERATING TEMPERATURE<br>VALVE CLEARANCE |  |
| SPARK PLUG GAP                                                                     | BREAKER POINTS                                                                     | IGNITION TIMING                                                                    | SET VALVES<br>With Motor at Operating Temperature                                                                                                 | FLOAT LEVEL<br>(Remove Gasket)                                                       |
| .025"                                                                              | .020"                                                                              | Breaker Points to Open<br>6C1-6C2-6D1-6DIR-6G1<br>T. D. C.                         | 6C1-6C2-6D1-6DIR<br>Intake .008"<br>Exhaust .012"                                                                                                 | Correct Float Level<br>1/32" to 1/16"<br>Below Edge of<br>Casting                    |
|                                                                                    |                                                                                    | 6E1<br>Aluminum Pistons<br>2° A. T. D. C.<br>Cast Iron Pistons<br>6° A. T. D. C.   | 6E1-6F1<br>Intake .010"<br>Exhaust .012"                                                                                                          |                                                                                      |
|                                                                                    |                                                                                    | 6F1<br>2° A. T. D. C.                                                              | 6G1<br>Intake .010"<br>Exhaust .014"                                                                                                              |                                                                                      |

### CARBURETER ADJUSTMENTS

**To Secure a Good Idle:** Set throttle lever adjusting screw so motor runs approximately 300 rpm. Then set idle adjustment screw so motor fires evenly. Correct setting will be found between (1/4 to 1/4 on 6E1, 6F1) (1/2 to 1/2 on 6C1, 6C2, 6D1, 6DIR) turns open. A richer mixture is obtained by backing out adjustment screw—a leaner mixture by turning screw in. If motor stalls while idling, remove idle passage tube and idle jet tube and clean with compressed air.

**To Improve Acceleration:** Examine pump link setting: For winter driving, link screw should be set in outer hole, giving long stroke; for hot weather, in high altitudes, pump link should

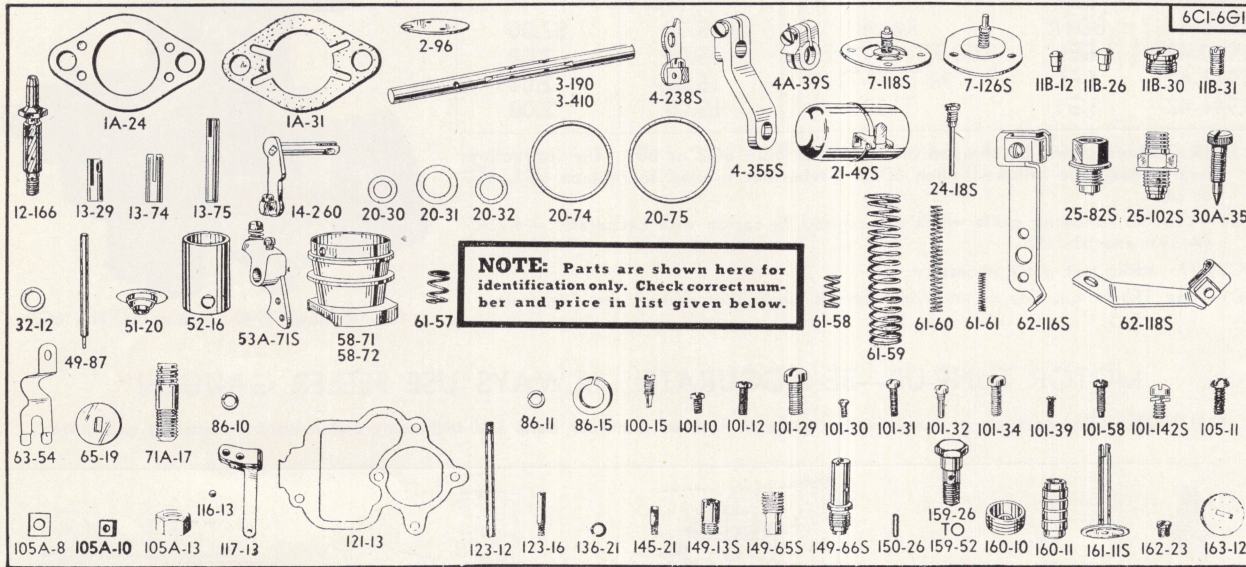
be connected in inner hole, giving short stroke. If this does not give desired results, the main metering jet, pump metering jet, check valve assembly and pump valve assembly should be removed and cleaned with compressed air.

**If Motor Loads—Check Float Level:** Wear on lip of float lever will raise float level from factory setting, causing carbureter to load up. To lower float level, bend lip of float lever toward needle. To raise float level, bend lip away from needle. A very slight bend is sufficient. Be sure to bend lip of float, not bracket.

- Economy:** (a) Maximum economy is secured only when breaker points, spark plugs, valves and motor timing are set to manufacturer's specifications.
- (b) Float level must set as instructed on page 1.
- (c) Step-up valve cage assembly should be examined. Ball check in this assembly must seat

and move freely. When reassembling valve cage must be screwed in tight against seat.

- (d) Step-up push rod must move freely in upper and lower guides.
- (e) Step-up piston in upper casting should not bind and must be free from dirt.



**PARTS AND PRICE LIST**

WHEN SERVICING, USE GASKET ASSORTMENT No. 172—LIST PRICE \$0.40

| PART NAME                           | LIST PRICE | 6C1-6C2      | 6D1-6DIR                         | 6E1     | 6F1     | 6G1     |
|-------------------------------------|------------|--------------|----------------------------------|---------|---------|---------|
| Flange Gasket—With Gov.....         | \$0.06     | 1A-24        | 1A-24                            | 1A-24   | 1A-24   | 1A-24   |
| Flange Gasket—Without Gov.....      | .06        | 1A-31        | 1A-31                            | 1A-31   | 1A-31   | 1A-31   |
| Throttle valve.....                 | .20        | 2-96         | 2-96                             | 2-96    | 2-96    | 2-96    |
| Throttle shaft.....                 | .60        | 3-190        | 3-190                            | 3-410   | 3-190   | 3-410   |
| Throttle lever ass'y (loose).....   | .30        | 4-238S (6C1) |                                  |         | 4-238S  |         |
| Throttle lever ass'y.....           | .60        | 4-355S       | 4-355S                           | 4-355S  | 4-355S  | 4-355S  |
| Throttle shaft dog ass'y.....       | .30        | 4A-39S (6C1) |                                  |         | 4A-39S  |         |
| Choker valve assembly.....          | .50        | 7-118S       | 7-118S                           | 7-118S  | 7-126S  | 7-126S  |
| Rivet plug.....                     | .02        | 11B-12       | 11B-12                           | 11B-12  | 11B-12  | 11B-12  |
| Rivet plug.....                     | .02        | 11B-26       | 11B-26                           | 11B-26  | 11B-26  | 11B-26  |
| Step-up piston plug.....            | .10        | 11B-30       | 11B-30                           | 11B-30  | 11B-30  | 11B-30  |
| Idle hole plug.....                 | .10        | 11B-31       | 11B-31                           | 11B-31  | 11B-31  | 11B-31  |
| Nozzle.....                         | .60        | 12-166       | 12-166                           | 12-166  | 12-166  | 12-166  |
| Choker shaft—stub.....              | .15        | 13-29        | 13-29                            | 13-29   | 13-74   | 13-74   |
| Choker shaft.....                   | .20        |              |                                  |         | 13-75   | 13-75   |
| Choker lever and clamp ass'y.....   | .40        | 14-260S      | 14-260S                          | 14-260S |         |         |
| Nozzle gasket.....                  | .05        | 20-30        | 20-30                            | 20-30   | 20-30   | 20-30   |
| Needle seat gasket.....             | .05        | 20-31        | 20-31                            | 20-31   | 20-31   | 20-31   |
| Metering screw gasket.....          | .05        | 20-32        | 20-32                            | 20-32   | 20-32   | 20-32   |
| Venturi gasket—upper.....           | .05        | 20-74        | 20-74                            | 20-74   | 20-74   | 20-74   |
| Venturi gasket—lower.....           | .05        | 20-75        | 20-75                            | 20-75   | 20-75   | 20-75   |
| Float and lever ass'y.....          | .80        | 21-49S       | 21-49S                           | 21-49S  | 21-49S  | 21-49S  |
| Float lever pin and plug ass'y..... | .10        | 24-18S       | 24-18S                           | 24-18S  | 24-18S  | 24-18S  |
| Needle and seat ass'y.....          | .80        | 25-82S       | (25-82S (6DIR)<br>(25-102S (6DI) | 25-102S | 25-102S | 25-102S |
| Idle adjustment screw.....          | .30        | 30A-35       | 30A-35                           | 30A-35  | 30A-35  | 30A-35  |
| Pump rod gasket.....                | .05        | 32-12        |                                  |         | 32-12   | 32-12   |
| Step-up push rod.....               | .10        | 49-87        | 49-87                            | 49-87   | 49-87   | 49-87   |

ADD 5% TO PRICES SHOWN WITH FRACTIONAL ADJUSTMENT TO NEAREST EVEN CENT. (See Form 3423.) TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE PRICES LISTED HEREIN ARE NOT IN EXCESS OF THE PRICES PROVIDED BY THE APPLICABLE PREVAILING PRICE REGULATION OF THE OFFICE OF PRICE ADMINISTRATION.

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| PART NAME                                     | LIST PRICE | 6C1-6C2       | 6D1-6DIR | 6E1      | 6F1      | 6G1      |
|-----------------------------------------------|------------|---------------|----------|----------|----------|----------|
| Pump collar .....                             | .10        | 51-20         | 51-20    | 51-20    | 51-20    | 51-20    |
| Pump sleeve .....                             | .20        | 52-16         | 52-16    | 52-16    | 52-16    | 52-16    |
| Pump arm assembly.....                        | .60        | 53A-71S       | 53A-71S  | 53A-71S  | 53A-71S  | 53A-71S  |
| Venturi .....                                 | .50        | 58-71         | 58-71    | 58-72    | 58-71    | 58-71    |
| Idle adjustment screw spring.....             | .05        | 61-57         | 61-57    | 61-57    | 61-57    | 61-57    |
| Throttle lever adjusting screw spring .....   | .05        | 61-58         | 61-58    | 61-58    | 61-58    | 61-58    |
| Pump spring .....                             | .10        | 61-59         | 61-59    | 61-59    | 61-59    | 61-59    |
| Step-up piston spring.....                    | .05        | 61-60         | 61-60    | 61-60    | 61-60    | 61-60    |
| Step-up spring .....                          | .05        | 61-61         | 61-61    | 61-61    | 61-61    | 61-61    |
| Choke tube bracket ass'y.....                 | .25        | 62-116S       | 62-116S  | 62-116S  |          |          |
| Choke tube clamp assembly.....                | .25        | 62-118S (6C1) |          |          | 62-118S  |          |
| Packing retainer .....                        | .10        | 63-54         | 63-54    | 63-54    | 63-54    | 63-54    |
| Pump link cover plate.....                    | .02        | 265-19        | 265-19   | 265-19   | 265-19   | 265-19   |
| Flange stud .....                             | .05        | 271A-17       | 271A-17  | 271A-17  | 271A-17  | 271A-17  |
| Lock washer .....                             | .01        | 86-10         | 86-10    | 86-10    | 86-10    | 86-10    |
| Lock washer .....                             | .01        | 386-11        | 386-11   | 386-11   | 386-11   | 386-11   |
| Flange stud lock washer.....                  | .01        | 286-15        | 286-15   | 286-15   | 286-15   | 286-15   |
| Headless screw .....                          | .05        | 100-15        | 100-15   | 100-15   | 100-15   | 100-15   |
| Wire clamp screw.....                         | .05        | 101-10        | 101-10   | 101-10   | 101-10   | 101-10   |
| Clamp screw .....                             | .05        | 101-12        | 101-12   | 101-12   | 101-12   | 101-12   |
| Body attaching screw.....                     | .05        | 3101-29       | 3101-29  | 3101-29  | 3101-29  | 3101-29  |
| Choke valve screw .....                       | .05        | 2101-30       | 2101-30  | 2101-30  | 2101-30  | 2101-30  |
| Throttle lever adjusting screw.....           | .05        | 101-58        | 101-58   | 101-58   | 101-58   | 101-31   |
|                                               | (.05)      | (101-31)      | (101-31) |          |          |          |
| Pump link screw.....                          | .05        | 101-32        | 101-32   | 101-32   | 101-32   | 101-32   |
| Throttle lever clamp screw.....               | .05        | 101-34        | 101-34   | 101-34   | 101-34   | 101-34   |
| Throttle valve screw.....                     | 2 for .05  | 2101-39       | 2101-39  | 2101-39  | 2101-39  | 2101-39  |
| Choke bracket screw and washer assembly ..... | .05        | 101-142S      | 101-142S | 101-142S | 101-142S | 101-142S |
| Clamp screw .....                             | .05        | 105-11        | 105-11   |          | 105-11   |          |
| Tube clamp nut.....                           | .05        | 105A-8        | 105A-8   |          | 105A-8   |          |
| Choke tube clamp nut.....                     | .05        | 105A-10       | 105A-10  | 105A-10  |          |          |
| Flange stud nut.....                          | .05        | 2105A-13      | 2105A-13 | 2105A-13 | 2105A-13 | 2105A-13 |
| Check ball .....                              | .02        | 2116-13       | 2116-13  | 2116-13  | 2116-13  | 2116-13  |
| Pump link .....                               | .15        | 117-13        | 117-13   | 117-13   | 117-13   | 117-13   |
| Body gasket .....                             | .10        | 121-13        | 121-13   | 121-13   | 121-13   | 121-13   |
| Idle passage tube.....                        | .10        | 123-12        | 123-12   | 123-12   | 123-12   | 123-12   |
| Idle orifice tube.....                        | .20        | 123-16        | 123-16   | 123-16   | 123-16   | 123-16   |
| Plug washer .....                             | .01        | 136-21        | 136-21   | 136-21   | 136-21   | 136-21   |
| Vent tube .....                               | .05        | 145-21        | 145-21   | 145-21   | 145-21   | 145-21   |
| Check valve cage ass'y.....                   | .30        | 149-13S       | 149-13S  | 149-13S  | 149-13S  | 149-13S  |
| Pump valve cage ass'y.....                    | .30        | 149-65S       | 149-65S  | 149-65S  | 149-65S  | 149-65S  |
| Step-up valve cage ass'y.....                 | .40        | 149-66S       | 149-66S  | 149-66S  | 149-66S  | 149-66S  |
| Pump collar pin.....                          | .02        | 150-26        | 150-26   | 150-26   | 150-26   | 150-26   |
| Main metering screw— Standard .....           | .30        | 159-51        | 159-51   | 159-35   | 159-51   | 159-51   |
| Main metering screw— One size lean.....       | .30        | 159-52        | 159-52   | 159-26   | 159-52   | 159-52   |
| Main metering screw— Two sizes lean.....      | .30        | 159-48        | 159-48   |          | 159-48   | 159-48   |
| Pump piston .....                             | .40        | 160-10        | 160-10   | 160-10   | 160-10   | 160-10   |
| Step-up piston .....                          | .20        | 160-11        | 160-11   | 160-11   | 160-11   | 160-11   |
| Pump rod plate and rod ass'y..                | .30        | 161-11S       | 161-11S  | 161-11S  | 161-11S  | 161-11S  |
| Power orifice .....                           | .10        | 162-23        | 162-23   | 162-23   | 162-23   | 162-23   |
| Felt packing .....                            | .05        | 163-12        | 163-12   | 163-12   | 163-12   | 163-12   |

NOTE: Parts in parenthesis (in small italic type) are superseded by the part number shown above them. Small figures preceding part number indicate number of pieces in one carburetor.

## CARBURETER SPECIFICATIONS

|                                                                                            | 6C1-6C2-6D1-6DIR                       | 6E1                                    | 6F1-6G1                                |
|--------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| <b>DIMENSIONS:</b>                                                                         |                                        |                                        |                                        |
| Flange size.....                                                                           | 1 1/2" (38.10 mm)                      | 1 1/2" (38.10 mm)                      | 1 1/2" (38.10 mm)                      |
| Throttle bore.....                                                                         | 1-7/16" (38.51 mm)                     | 1-7/16" (38.51 mm)                     | 1-7/16" (38.51 mm)                     |
| Main venturi, I. D.....                                                                    | 1-1/16" (26.99 mm)                     | 1 1/8" (28.58 mm)                      | 1-1/16" (26.99 mm)                     |
| Air bleed through venturi to idle passage, Dia.....                                        | .0885" to .0905" (2.25 to 2.30 mm) Dr. | .0885" to .0905" (2.25 to 2.30 mm) Dr. | .0885" to .0905" (2.25 to 2.30 mm) Dr. |
| <b>FLOAT SETTING:</b> Distance from top of float to top surface of lower body casting..... | 1/32" to 1/16" (.79 to 1.59 mm)        | 1/32" to 1/16" (.79 to 1.59 mm)        | 1/32" to 1/16" (.79 to 1.59 mm)        |
| <b>VENT:</b> (To Float Chamber) Size.....                                                  | No. 30 (3.26 mm) Dr.                   | No. 30 (3.26 mm) Dr.                   | No. 30 (3.26 mm) Dr.                   |
| <b>BALANCE VENT TUBE:</b>                                                                  |                                        |                                        |                                        |
| Inside diameter.....                                                                       | 7/32" (5.56 mm)                        | 7/32" (5.56 mm)                        | 7/32" (5.56 mm)                        |
| Restriction hole, upper body—diam.....                                                     | 5/32" (3.97 mm)                        | 5/32" (3.97 mm)                        | 5/32" (3.97 mm)                        |
| <b>GASOLINE INTAKE</b>                                                                     |                                        |                                        |                                        |
| Needle: <b>Triangular, Horizontal.</b> Hole in needle seat. Size.....                      | No. 44 (2.18 mm) Dr.                   | No. 44 (2.18 mm) Dr.                   | No. 44 (2.18 mm) Dr.                   |
| <b>IDLE JET TUBE:</b>                                                                      |                                        |                                        |                                        |
| Jet size.....                                                                              | .0236" (.60 mm) Dr.                    | .0236" (.60 mm) Dr.                    | .0236" (.60 mm) Dr.                    |
| <b>IDLE PORTS:</b>                                                                         |                                        |                                        |                                        |
| Lower port size, diam.....                                                                 | .062" to .064" (1.58 to 1.63 mm)       | .062" to .064" (1.58 to 1.63 mm)       | .062" to .064" (1.58 to 1.63 mm)       |
| Distance—Top of port below lower edge of valve.....                                        | .005" to .009" (.13 to .23 mm)         | .005" to .009" (.13 to .23 mm)         | .005" to .009" (.13 to .23 mm)         |
| Upper port (for idle adj. screw), diam.....                                                | .053" to .057" (1.35 to 1.45 mm)       | .053" to .057" (1.35 to 1.45 mm)       | .053" to .057" (1.35 to 1.45 mm)       |
| <b>SET IDLE ADJUSTMENT</b>                                                                 |                                        |                                        |                                        |
| <b>SCREW:</b> Turns open..... (Do not idle engine below 6 mph.)                            | 1/2 to 1 1/2                           | 1/4 to 1 1/4                           | 1/4 to 1 1/4                           |
| <b>MAIN METERING SCREW:</b>                                                                |                                        |                                        |                                        |
| Calibrated to flow per minute.....                                                         | 286 to 290 cc                          | 316 to 320 cc                          | 286 to 290 cc                          |
| <b>NOZZLE:</b>                                                                             |                                        |                                        |                                        |
| Discharge jet size.....                                                                    | No. 33 (2.87 mm) Dr.                   | No. 33 (2.87 mm) Dr.                   | No. 33 (2.87 mm) Dr.                   |
| <b>SIDE HOLES:</b>                                                                         |                                        |                                        |                                        |
| 2—.0394" (1.00 mm) Dr. Distance from shoulder.....                                         | 1/16" (1.59 mm)                        | 1/16" (1.59 mm)                        | 1/16" (1.59 mm)                        |
| 1—.051" (1.3 mm) Dr. Distance from shoulder.....                                           | 3/8" (9.525 mm)                        | 3/8" (9.525 mm)                        | 3/8" (9.525 mm)                        |
| 1—.063" (1.6 mm) Dr. Distance from shoulder.....                                           | 23/32" (18.256 mm)                     | 23/32" (18.256 mm)                     | 23/32" (18.256 mm)                     |
| 1—.051" (1.3 mm) Dr. Distance from shoulder.....                                           | 1-1/16" (26.99 mm)                     | 1-1/16" (26.99 mm)                     | 1-1/16" (26.99 mm)                     |
| <b>AIR BLEED TO NOZZLE:</b>                                                                |                                        |                                        |                                        |
| Vent tube, size.....                                                                       | .0394" (1.00 mm) Dr.                   | .0394" (1.00 mm) Dr.                   | .0394" (1.00 mm) Dr.                   |
| <b>STEP-UP JET:</b>                                                                        |                                        |                                        |                                        |
| (Power orifice) Size.....                                                                  | .0472" (1.20 mm) Dr.                   | .0472" (1.20 mm) Dr.                   | .0472" (1.20 mm) Dr.                   |
| <b>ACCELERATING PUMP:</b>                                                                  |                                        |                                        |                                        |
| <b>Type, Low Pressure, Delayed Action:</b>                                                 |                                        |                                        |                                        |
| Summer setting (inner hole), short stroke.....                                             | 9/16" (14.29 mm)                       | 9/16" (14.29 mm)                       | 9/16" (14.29 mm)                       |
| Winter setting (outer hole), long stroke.....                                              | 1" (25.40 mm)                          | 1" (25.40 mm)                          | 1" (25.40 mm)                          |
| Pump intake ball check, size.....                                                          | 1/8" (3.175 mm)                        | 1/8" (3.175 mm)                        | 1/8" (3.175 mm)                        |
| Pump discharge jet, size.....                                                              | .0925" (2.35 mm) Dr.                   | .0925" (2.35 mm) Dr.                   | .0925" (2.35 mm) Dr.                   |
| <b>VACUUM SPARK PORT:</b>                                                                  |                                        |                                        |                                        |
| Slot (round end type).....                                                                 | .040" x .110" (1.016 x 2.794 mm)       | .040" x .110" (1.016 x 2.794 mm)       | .040" x .110" (1.016 x 2.794 mm)       |
| Distance—Top of port below valve.....                                                      | .003" to .009" (.076 to .229 mm)       | .003" to .009" (.076 to .229 mm)       | .003" to .009" (.076 to .229 mm)       |