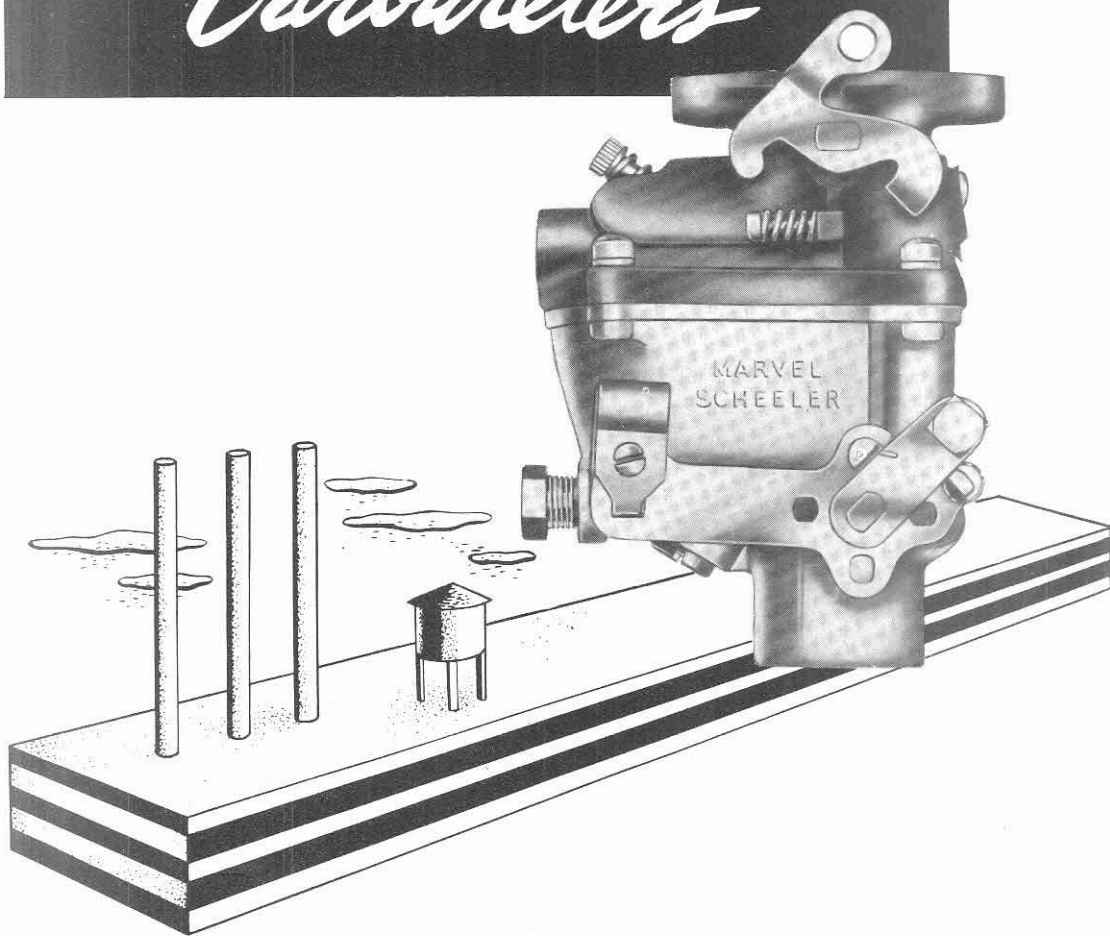


SECTION II  
**GLADDEN ENGINES**  
TSV SERIES

# INDUSTRIAL

## *Carbureters*



**MARVEL-SCHEBLER PRODUCTS DIVISION,**  
BORG-WARNER CORPORATION  
DECATUR, ILLINOIS, U. S. A.

# Warranty

Marvel-Schebler Products Division, Borg-Warner Corporation, warrant its carbureters against defects in material and workmanship for a period of ninety days. Defective merchandise will be replaced without charge but labor charges incurred in the removal, disassembly or reinstallation of such products will not be allowed. No merchandise can be returned without written permission from the factory, transportation charges must be prepaid. The factory shall be the sole judge of defects in products returned.

A ten per cent handling charge will be made for all merchandise returned that is not defective. All prices are subject to change without notice, and we reserve the right to limit quantities and to make partial shipments unless specifically instructed otherwise. The obligation of the company under this warranty is limited to replacing at the factory, any complete units or parts thereof which shall be returned and which our examination shall disclose to have been defective.

## *Introduction...*

This section of the master manual is an individual parts catalog of all service parts for Marvel-Schebler carbureters listed on the identification charts. The catalog is broken down into groups of fifteen carbureters; each group containing an identification chart, an exploded drawing of a composite carbureter, and a parts list. Each part in the illustration bears a reference number which keys together the illustration and parts list.

NOTE: The illustration does not represent any specific carbureter within a series, but is typical of all of them. All parts that look different are shown adjacent to the part of the basic carbureter that they replace.

### TO USE THE CATALOG

- (1) Locate the group which contains the carbureter in question by referring to the identification charts.
- (2) Visually locate the part desired in the exploded drawing and note its reference number.
- (3) Turn to the parts list opposite the reference number of the part for its complete part name and part number.

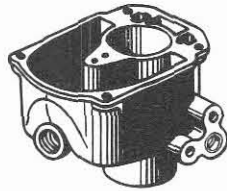
**GLADDEN — INDUSTRIAL CARBURETERS**

ISSUED JULY 1952

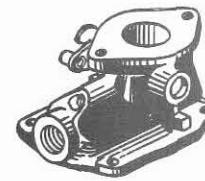
| Model Application | Engine | Carbureter Number | Carbureter Part No. | Fuel     | Superseded by | Customer Part No. | ◆Repair Kit No. | §Gasket Kit No. | Float Valve & Seat Assy |
|-------------------|--------|-------------------|---------------------|----------|---------------|-------------------|-----------------|-----------------|-------------------------|
| Industrial .....  | CB-1   | TSV-17            | 10-3201             | Gasoline | TSV-27        | .....             | 286-840         | 16-656          | 233-543                 |
| Industrial .....  | CB-1   | TSV-27            | 10-3329             | Gasoline | .....         | .....             | 286-917         | 16-656          | 233-543                 |

◆ The repair kit includes the throttle shaft, float valve and seat assembly, and the gasket kit.

§ The flange gasket can be supplied separately. Specify the carbureter number when ordering.

**BASIC SUBASSEMBLIES****CARBURETER BODY ASSY**

| Carbureter Number | Part Number |
|-------------------|-------------|
| TSV-17 .....      | 10-3216     |
| TSV-27 .....      | 10-3330     |

**THROTTLE BODY & SHAFT ASSY**

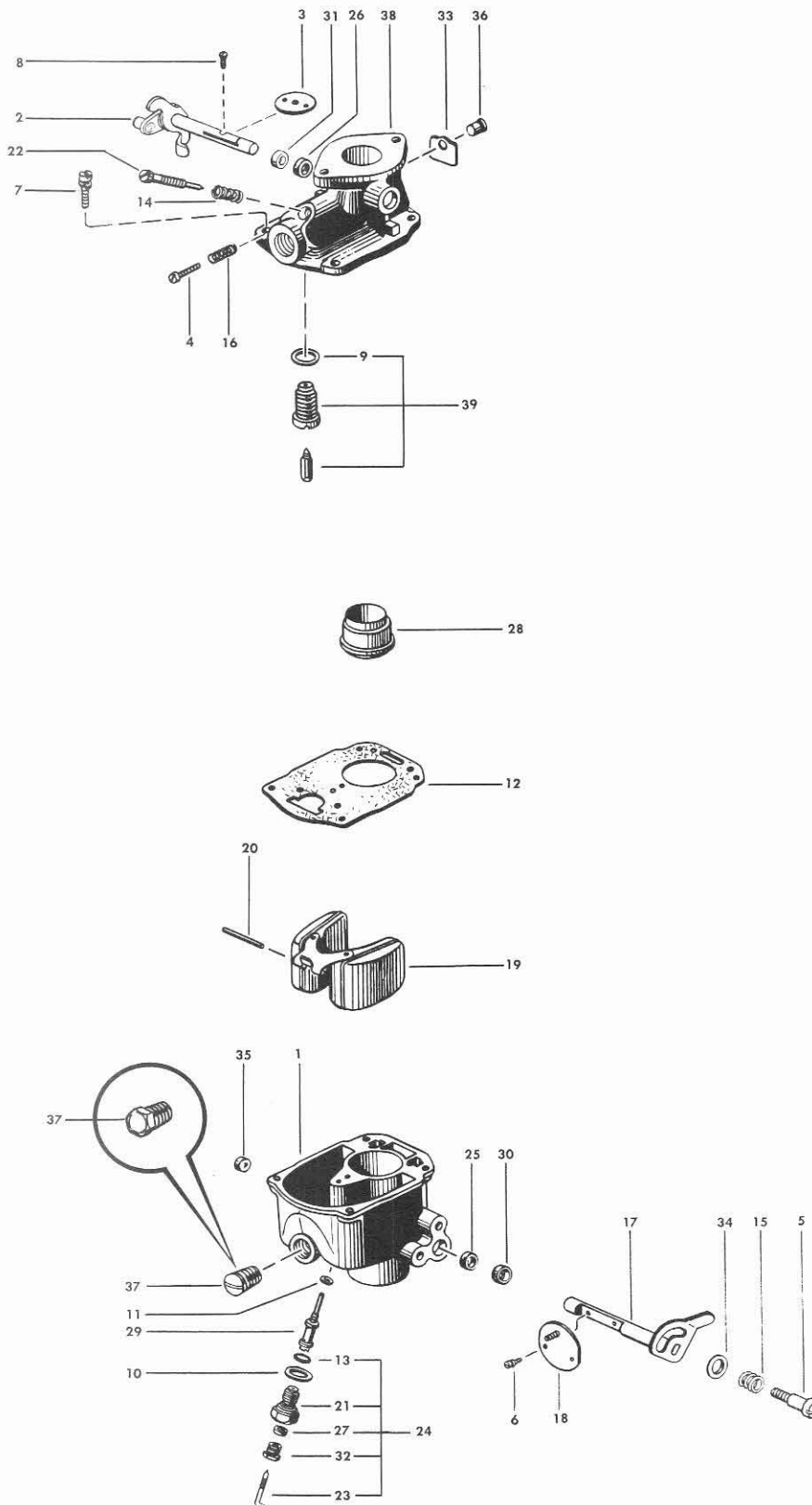
| Carbureter Number | Part Number |
|-------------------|-------------|
| TSV-17 .....      | 227-1148    |
| TSV-27 .....      | 227-1198    |

**GLADDEN**

| Ref. No. | Part Name                                                                   | Part No.                  | TSV-17 | TSV-27 |
|----------|-----------------------------------------------------------------------------|---------------------------|--------|--------|
| 1        | Body Assy — Carbureter .....                                                | (See Basic Subassy) ..... | 1      | 1      |
| 2        | Shaft Assy — Throttle .....                                                 | 13-994 .....              | 1      | 1      |
| 3        | Valve — Throttle .....                                                      | 14-204 .....              | 1      | 1      |
| 4        | Screw — Throttle Stop (No. 6-32 x 5/8) .....                                | 15-28 .....               | 1      | 1      |
| 5        | Screw — Choke Friction Lever .....                                          | 15-397 .....              | 1      | 1      |
| 6        | Screw & Lock Washer Assy — Choke Valve (No. 4-40 x 3/16) .....              | 15-A47 .....              | 2      | 2      |
| 7        | Screw & Lock Washer Assy — Throttle Body to Bowl<br>(No. 10-24 x 5/8) ..... | 15-A86 .....              | 4      | 4      |
| 8        | Screw — Throttle Valve (No. 4-40 x 1/4) .....                               | 15-A102 .....             | 1      | 1      |
| 9        | Gasket — Float Valve Seat .....                                             | 16-4 .....                | 1      | 1      |
| 10       | Gasket — Bowl Plug & Power Adjusting Needle Seat .....                      | 16-4 .....                | 1      | 1      |
| 11       | Gasket — Main Nozzle .....                                                  | 16-A117 .....             | 1      | 1      |
| 12       | Gasket — Throttle Body to Bowl .....                                        | 16-A121 .....             | 1      | 1      |
| 13       | Gasket — Power Jet (Inner) .....                                            | 16-A123 .....             | 1      | 1      |
| 14       | Spring — Idle Needle .....                                                  | 24-340 .....              | 1      | 1      |
| 15       | Spring — Choke Friction Lever .....                                         | 34-480 .....              | 1      | 1      |
| 16       | Spring — Throttle Stop Screw .....                                          | 24-A69 .....              | 1      | 1      |
| 17       | Shaft & Lever Assy — Choke .....                                            | 26-745 .....              | 1      | 1      |
| 18       | Valve Assy — Choke .....                                                    | 27-562 .....              | 1      | 1      |
| 19       | Float & Lever Assy .....                                                    | 30-667 .....              | 1      | 1      |
| 20       | Shaft — Float Lever .....                                                   | 32-27 .....               | 1      | 1      |
| 21       | Seat — Power Adjusting Needle .....                                         | 36-301 .....              | 1      | —      |
|          |                                                                             | 36-307 .....              | —      | 1      |
| 22       | Needle — Idle Adjusting .....                                               | 43-33 .....               | 1      | 1      |
| 23       | Needle — Power Adjusting .....                                              | 43-134 .....              | 1      | 1      |
| 24       | Needle Assy — Power Adjusting (complete) .....                              | 43-626 .....              | 1      | —      |
|          |                                                                             | 43-633 .....              | —      | 1      |

# GLADDEN — INDUSTRIAL

TSV-17 to TSV-27



Marvel-Schebler Products Division, Borg-Warner Corporation, Decatur, Illinois, U. S. A.

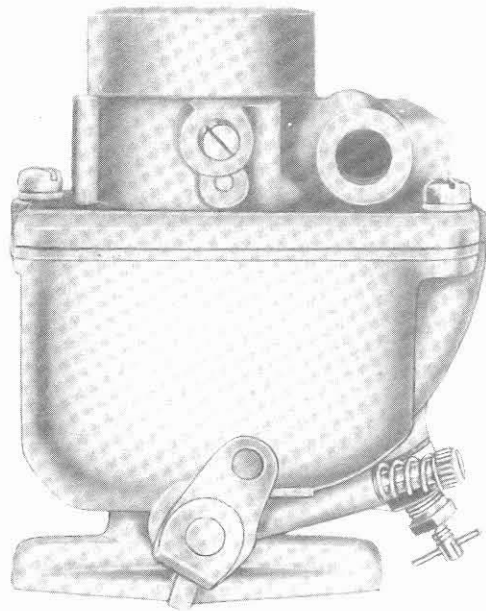
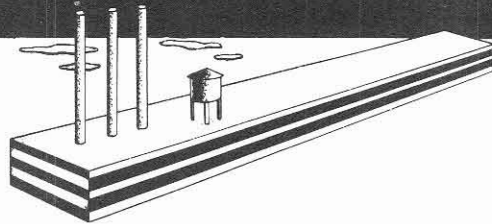
| GLADDEN     |                                         |                            | TSV-17 | TSV-27 |
|-------------|-----------------------------------------|----------------------------|--------|--------|
| Ref.<br>No. | Part Name                               | Part<br>No.                |        |        |
| 25          | Packing — Choke Shaft .....             | 44-38 .....                | 1      | 1      |
| 26          | Packing — Throttle Shaft .....          | 44-38 .....                | 1      | 1      |
| 27          | Packing — Power Adjusting Needle .....  | 44-51 .....                | 1      | 1      |
| 28          | Venturi (5/8" Diameter Throat) .....    | 46-A83 .....               | 1      | 1      |
| 29          | Nozzle — Main .....                     | 47-324 .....               | 1      | 1      |
| 30          | Retainer — Choke Shaft Packing .....    | 55-231 .....               | 1      | 1      |
| 31          | Retainer — Throttle Shaft Packing ..... | 55-231 .....               | 1      | 1      |
| 32          | Retainer — Power Adjusting Needle ..... | 55-285 .....               | 1      | 1      |
| 33          | Plate — Numbering .....                 | (Specify TSV Number) ..... | 1      | 1      |
| 34          | Washer — Choke Friction Lever .....     | 78-184 .....               | 1      | 1      |
| 35          | Cup — Choke Shaft .....                 | 80-169 .....               | 1      | 1      |
| 36          | Plug — Idle Drilling .....              | 80-171 .....               | 1      | 1      |
| 37          | Plug — Bowl Drain .....                 | 99-4 .....                 | 1      | —      |
|             |                                         | 99-7 .....                 | —      | 1      |
| 38          | Body & Shaft Assy — Throttle .....      | (See Basic Subassy) .....  | 1      | 1      |
| 39          | Valve & Seat Assy — Float .....         | 233-543 .....              | 1      | 1      |



SECTION II  
**GLADDEN ENGINES**  
VD SERIES

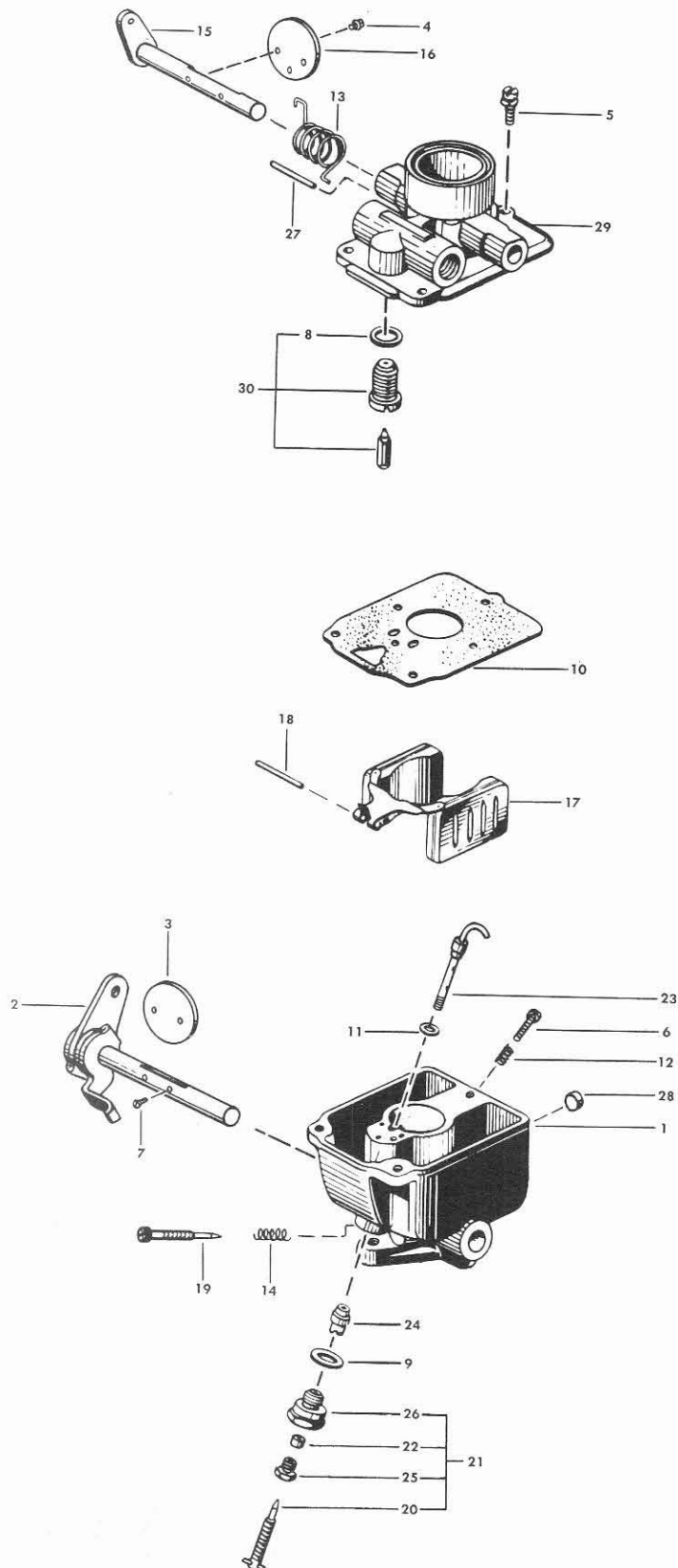
# INDUSTRIAL

## *Carbureters*



**MARVEL-SCHEBLER PRODUCTS DIVISION,**  
BORG-WARNER CORPORATION  
DECATUR, ILLINOIS, U. S. A.

**GLADDEN — INDUSTRIAL**  
VD-30



Marvel-Schebler Products Division, Borg-Warner Corporation, Decatur, Illinois, U. S. A.

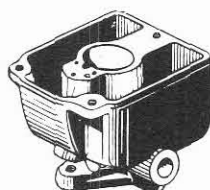
**GLADDEN — INDUSTRIAL CARBURETER**

ISSUED JULY 1952

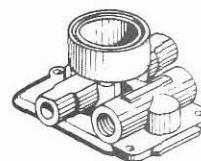
| Model Application     | Engine | Carbureter Number | Carbureter Part No. | Fuel     | Superseded by | Customer Part No. | ◆Repair Kit No. | §Gasket Kit No. | Float Valve & Seat Assy |
|-----------------------|--------|-------------------|---------------------|----------|---------------|-------------------|-----------------|-----------------|-------------------------|
| Light Industrial AB-3 | .....  | VD-30             | 10-2956             | Gasoline | .....         | 12356             | 286-760         | 16-631          | 233-569                 |

◆ The repair kit includes the throttle shaft, float valve and seat assembly, and the gasket kit.

§ The flange gasket can be supplied separately. Specify the carbureter number when ordering.

**BASIC SUBASSEMBLIES****CARBURETER BODY ASSY**

| Carbureter Number | Part Number |
|-------------------|-------------|
| VD-30 .....       | 10-2957     |

**CHOKE SLEEVE ASSY**

| Carbureter Number | Part Number |
|-------------------|-------------|
| VD-30 .....       | 102-585     |

**GLADDEN**

| Ref. No. | Part Name                                                     | Part No.                  | VD-30 |
|----------|---------------------------------------------------------------|---------------------------|-------|
| 1        | Body Assy — Carbureter .....                                  | (See Basic Subassy) ..... | 1     |
| 2        | Shaft, Stop & Lever Assy — Throttle .....                     | 13-946 .....              | 1     |
| 3        | Valve — Throttle .....                                        | 14-219 .....              | 1     |
| 4        | Screw & Lock Washer Assy — Choke Valve (No. 4-40 x 3/16) .... | 15-A47 .....              | 2     |
| 5        | Screw & Lock Washer Assy — Bowl Cover (No. 10-24 x 1/2) ....  | 15-A50 .....              | 3     |
| 6        | Screw — Throttle Stop (No. 6-32 x 3/4) .....                  | 15-A68 .....              | 1     |
| 7        | Screw — Throttle Valve (No. 4-40 x 1/4) .....                 | 15-A102 .....             | 2     |
| 8        | Gasket — Float Valve Seat .....                               | 16-4 .....                | 1     |
| 9        | Gasket — Power Adjusting Needle Retainer .....                | 16-4 .....                | 1     |
| 10       | Gasket — Choke Sleeve to Bowl .....                           | 16-A86 .....              | 1     |
| 11       | Gasket — Main Nozzle .....                                    | 16-A93 .....              | 1     |
| 12       | Spring — Throttle Stop Screw .....                            | 24-A69 .....              | 1     |
| 13       | Spring — Choke Return .....                                   | 24-A122 .....             | 1     |
| 14       | Spring — Idle Needle .....                                    | 24-A136 .....             | 1     |
| 15       | Shaft Assy — Choke .....                                      | 26-684 .....              | 1     |
| 16       | Valve — Choke .....                                           | 27-191 .....              | 1     |
| 17       | Float & Lever Assy .....                                      | 30-662 .....              | 1     |
| 18       | Shaft — Float .....                                           | 32-38 .....               | 1     |
| 19       | Needle — Idle .....                                           | 43-129 .....              | 1     |
| 20       | Needle Assy — Power Adjusting .....                           | 43-596 .....              | 1     |
| 21       | Needle Assy — Power Adjusting (complete) .....                | 43-599 .....              | 1     |
| 22       | Packing — Power Adjusting Needle .....                        | 44-51 .....               | 1     |
| 23       | Nozzle Assy — Main .....                                      | 47-716 .....              | 1     |
| 24       | Nut — Power Jet Nozzle Retaining .....                        | 49-334 .....              | 1     |
| 25       | Retainer — Power Adjusting Needle Packing .....               | 55-285 .....              | 1     |
| 26       | Retainer — Power Adjusting Needle .....                       | 55-286 .....              | 1     |
| 27       | Pin — Choke Stop .....                                        | 71-37 .....               | 1     |
| 28       | Plug — Idle Drilling .....                                    | 80-167 .....              | 1     |
| 29       | Sleeve Assy — Choke .....                                     | (See Basic Subassy) ..... | 1     |
| 30       | Valve & Seat Assy — Float .....                               | 233-569 .....             | 1     |

