



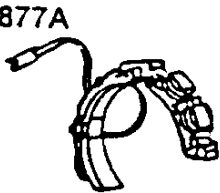
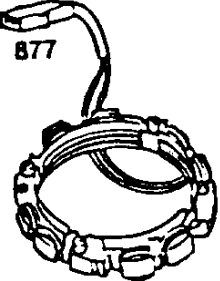
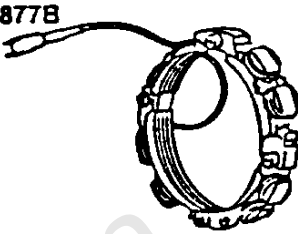
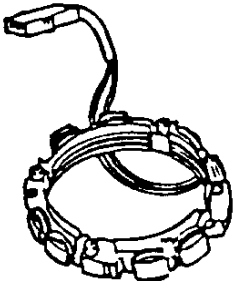
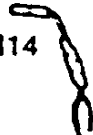
# Parts Manual

Mfg. No: 422431-0142-99



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| DC Only                                                                                  | Dual Circuit                                                                             | Tri-Circuit                                                                                | 16 AMP                                                                                       |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 23                                                                                       | 23                                                                                       | 23                                                                                         | UNDER NOTE 23                                                                                |
| 887<br> | 474<br> | 474A<br> | 474B<br>  |
|       |       |       |         |
|                                                                                          |                                                                                          |                                                                                            | 501<br> |

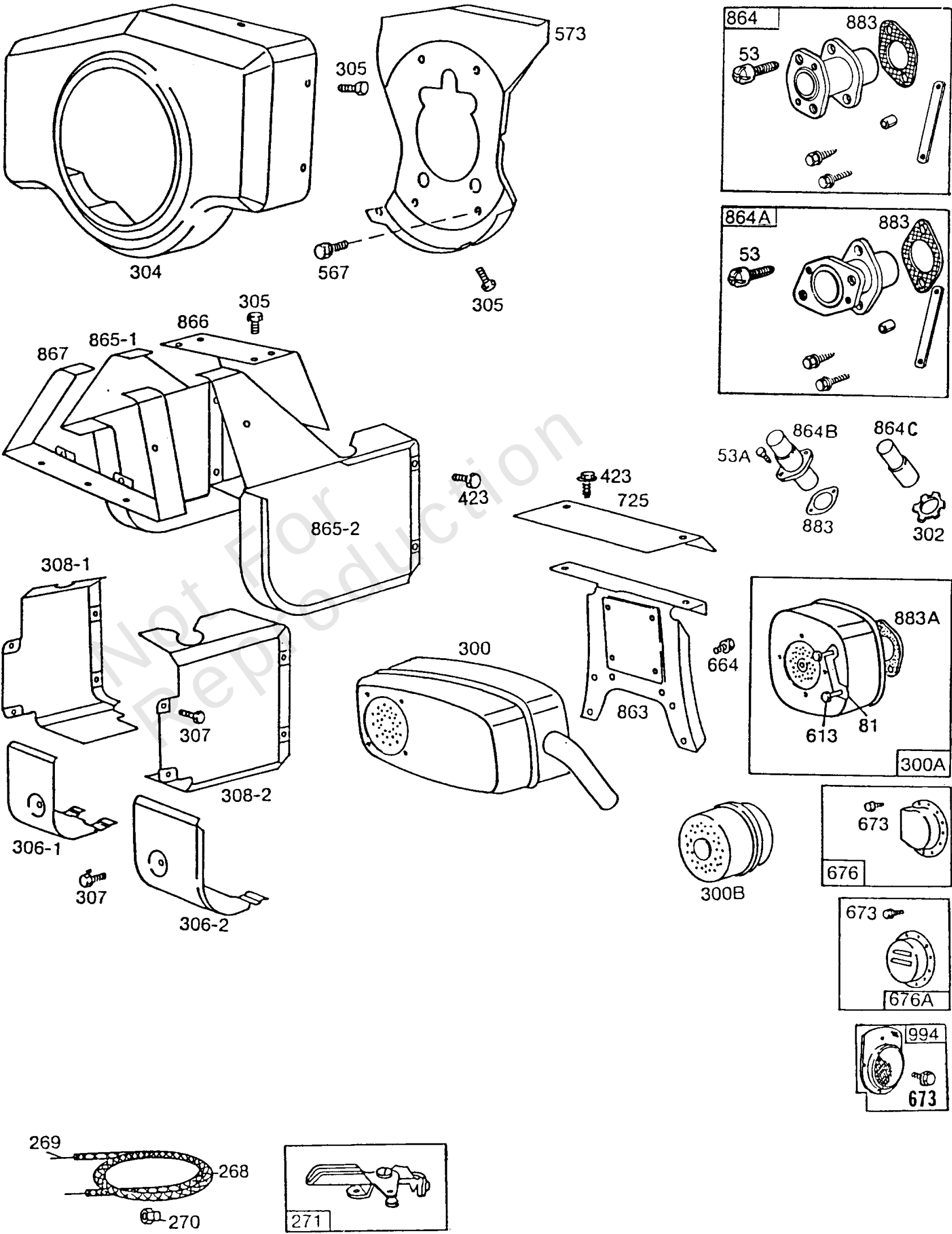
NOTE: All stators use #482 Mtg. Screw

## Alternator Chart

| REF NO | PART NO | QTY | DESCRIPTION                                                                          |
|--------|---------|-----|--------------------------------------------------------------------------------------|
| 23     | 392956  |     | FLYWHEEL                                                                             |
| 474A   | 392595  |     | ALTERNATOR<br>-(Tri Circuit) (9 Amp Regulated)                                       |
| 474B   | 393295  |     | ALTERNATOR<br>-(10, 13, or 16 Amp-Depending on Size of Flywheel Magnets) (Regulated) |
| 474    | 393474  |     | ALTERNATOR<br>-(Dual Circuit)                                                        |
| 482    | 93621   |     | SCREW<br>-(Tapping)                                                                  |
| 501    | 394890  |     | REGULATOR<br>-(10, 13, or 16 Amp, Depending on Size of Flywheel Magnets)             |
| 814    | 392606  |     | HARNESS, Alternator<br>-(Tri Circuit)                                                |
| 877A   | 393537  |     | WIRE/CONNECTOR, Alternator<br>-(Tri Circuit) (9 Amp)                                 |
| 877B   | 391529  |     | ALTERNATOR<br>-(DC Only)                                                             |
| 877    | 393456  |     | WIRE/CONNECTOR, Alternator                                                           |
| 878A   | 393422  |     | WIRE ASSEMBLY<br>-(Dc Only)                                                          |
| 878    | 393362  |     | HARNESS, Alternator<br>-(Dual Circuit)                                               |
| 887    | 391529  |     | ALTERNATOR<br>-(DC Only)                                                             |

### Footnotes:

AssocPart: 0000000291728

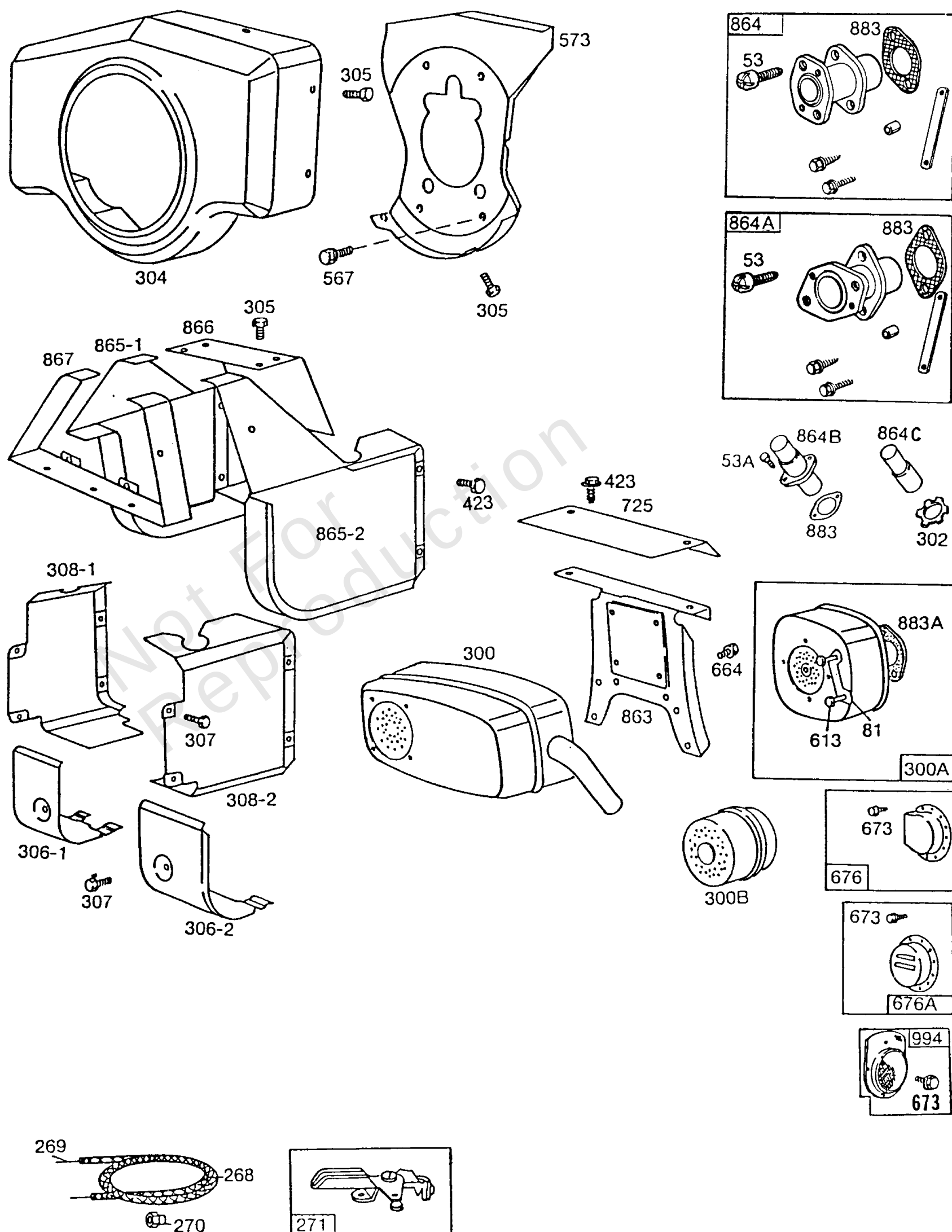


## BlowerHsg,Mufflers,Shielding

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                                                                             |
|--------|---------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 53     | 93415   |     | SCREW<br>-(1/4-20 X 3/4)                                                                                                                                                |
| 81     | 223016  |     | LOCK, Muffler Screw                                                                                                                                                     |
| 268    | 65616   |     | CASING, Control Wire<br>-(Cut To Required Length)                                                                                                                       |
| 269    | 26633   |     | WIRE, Control<br>-(Cut To Required Length) If longer wire is required, specify length in inches; if shorter wire is needed, order No. 26633 and cut to required length. |
| 270    | 63426   |     | NUT<br>-(Control Wire Casing)                                                                                                                                           |
| 271    | 290568  |     | LEVER, Control                                                                                                                                                          |
| 300A   | 394237  |     | MUFFLER                                                                                                                                                                 |
| 300B   | 392989  |     | MUFFLER                                                                                                                                                                 |
| 300    | 394200  |     | MUFFLER                                                                                                                                                                 |
| 302    | 261409  |     | LOCKNUT<br>-(Muffler and Elbow)                                                                                                                                         |
| 304    | 392681  |     | HOUSING, Blower                                                                                                                                                         |
| 305    | 93158   |     | SCREW<br>-(1/4-20 X 5/8)                                                                                                                                                |
| 306-2  | 223734  |     | SHIELD, Cylinder                                                                                                                                                        |
| 306-2  | 222847  |     | SHIELD, Cylinder<br>-Use on Engines with 3-5/8 or Shorter Starter Motor                                                                                                 |
| 306-1  | 222846  |     | SHIELD, Cylinder                                                                                                                                                        |
| 307    | 93163   |     | SCREW                                                                                                                                                                   |
| 308-1  | 222848  |     | COVER, Air Guide                                                                                                                                                        |
| 308-2  | 222849  |     | COVER, Air Guide                                                                                                                                                        |
| 423    | 93343   |     | SCREW<br>-(Control Panel)                                                                                                                                               |
| 567    | 93777   |     | SCREW                                                                                                                                                                   |
| 573    | 392934  |     | PLATE, Back                                                                                                                                                             |
| 613    | 93927   |     | SCREW<br>-(Muffler)                                                                                                                                                     |
| 664    | 93343   |     | SCREW<br>-(Control Panel)                                                                                                                                               |
| 673    | 93705   |     | SCREW<br>-(8-32 X 3/8)                                                                                                                                                  |
| 676A   | 222902  |     | DEFLECTOR, Muffler                                                                                                                                                      |
| 676    | 393761  |     | DEFLECTOR, Muffler<br>-(Side Outlet)                                                                                                                                    |
| 725    | 222981  |     | SHIELD, Heat                                                                                                                                                            |
| 863    | 222776  |     | BRACKET, Muffler                                                                                                                                                        |
| 864B   | 393483  |     | LINER, Port                                                                                                                                                             |
| 864C   | 231162  |     | ADAPTER, Muffler                                                                                                                                                        |
| 864A   | 490357  |     | ADAPTER, Muffler<br>-(Cylinder 2)                                                                                                                                       |
| 864    | 490358  |     | ADAPTER, Muffler<br>-(Cylinder 1)                                                                                                                                       |
| 865-2  | 399931  |     | COVER, Cylinder Head<br>-(Cylinder 2)                                                                                                                                   |
| 865-1  | 392991  |     | COVER, Cylinder Head<br>-(Cylinder 1)                                                                                                                                   |
| 865-2  | 392992  |     | COVER, Cylinder Head<br>-(Cylinder 2) Used on Engines with 3-5/8 or Shorter Length Starter Motor.                                                                       |
| 866    | 393025  |     | COVER, Air Guide                                                                                                                                                        |

### Footnotes:

AssocPart: 0000000291728

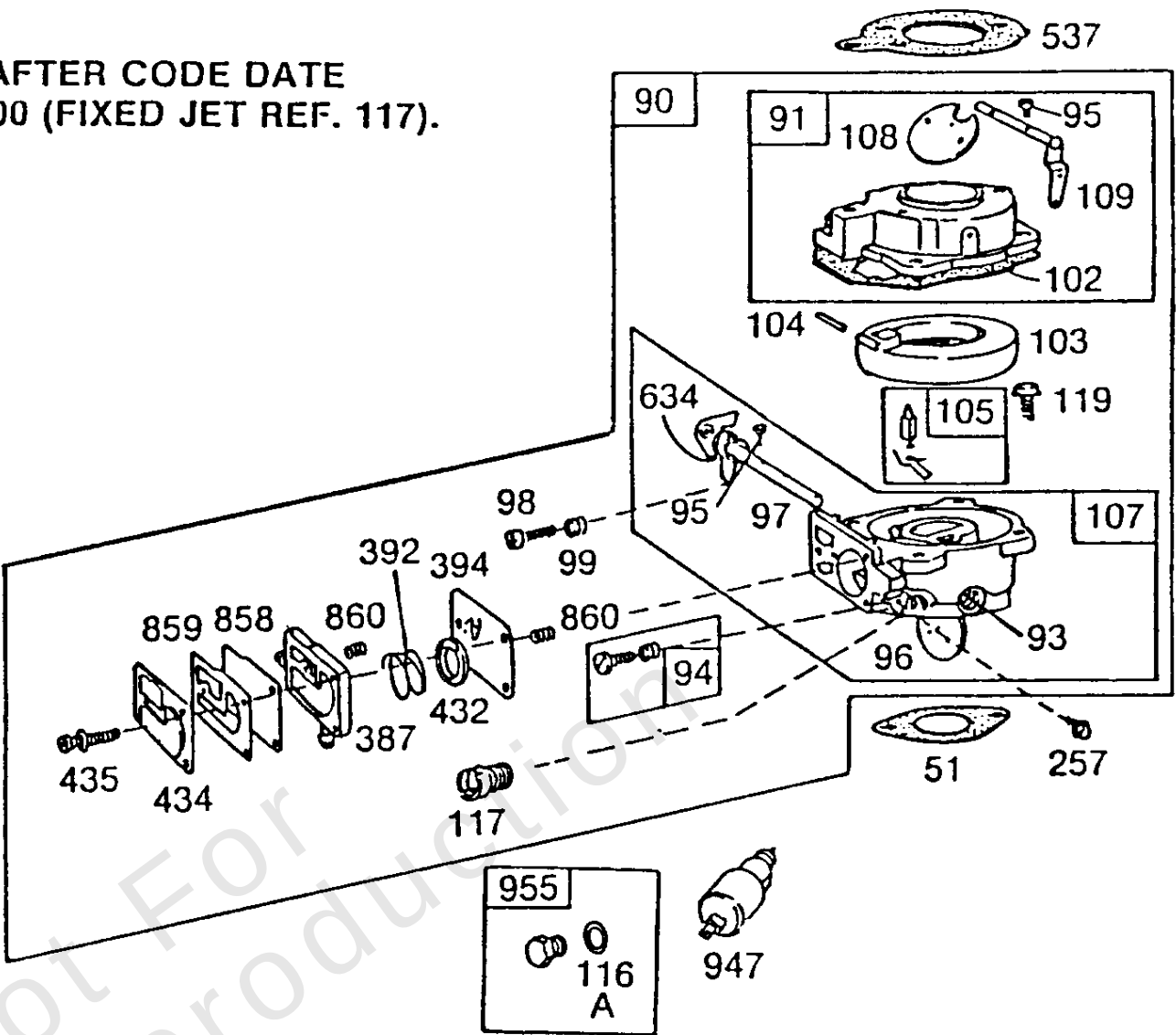


*BlowerHsg,Mufflers,Shielding*

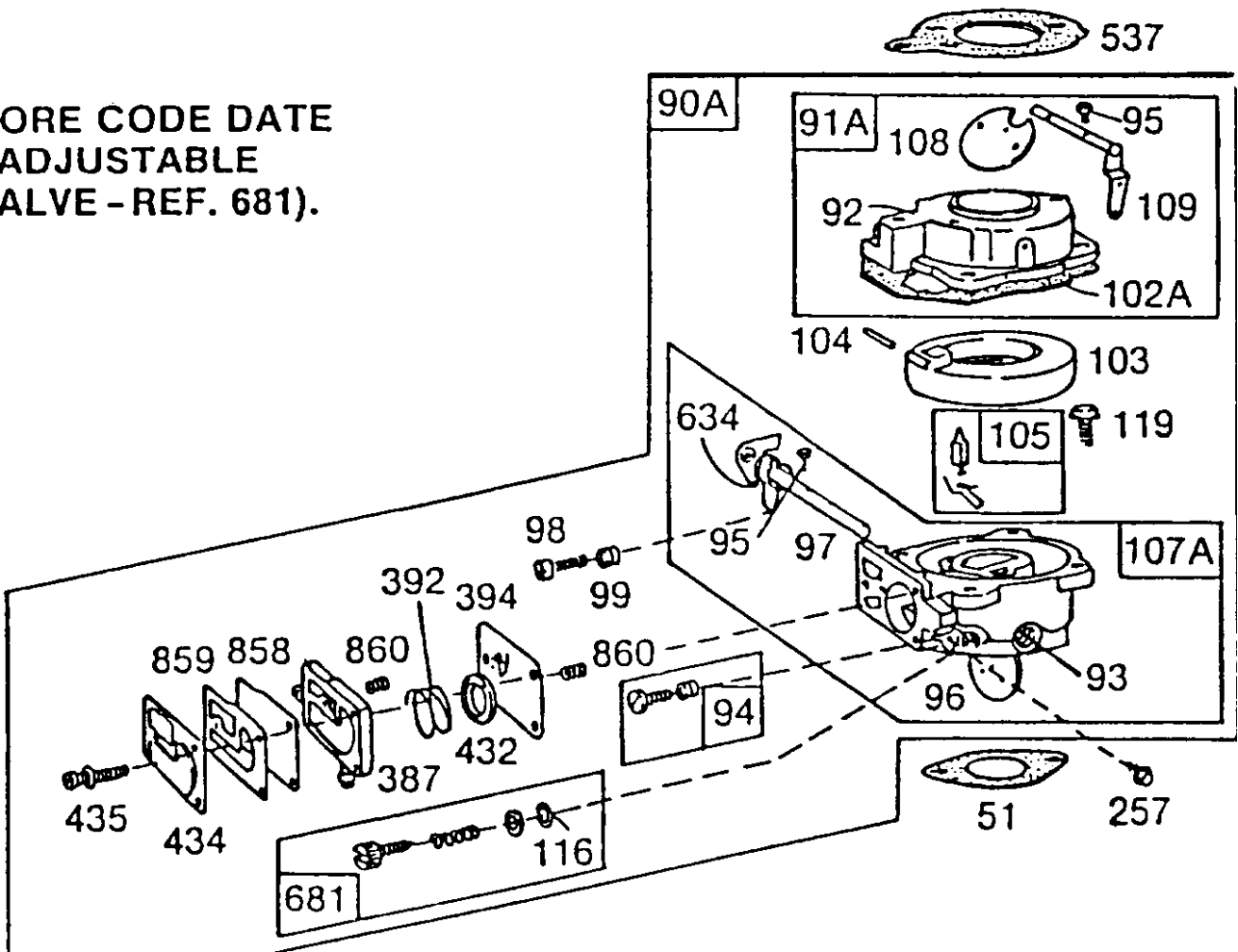
| REF NO | PART NO | QTY | DESCRIPTION      |
|--------|---------|-----|------------------|
| 867    | 222775  |     | FRAME, Air Guide |
| 883A   | 270917  |     | GASKET, Exhaust  |
| 883    | 271174  |     | GASKET, Exhaust  |
| 994    | 392390  |     | ARRESTOR, Spark  |

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USED AFTER CODE DATE  
84022300 (FIXED JET REF. 117).



USED BEFORE CODE DATE  
84022400 (ADJUSTABLE  
NEEDLE VALVE - REF. 681).



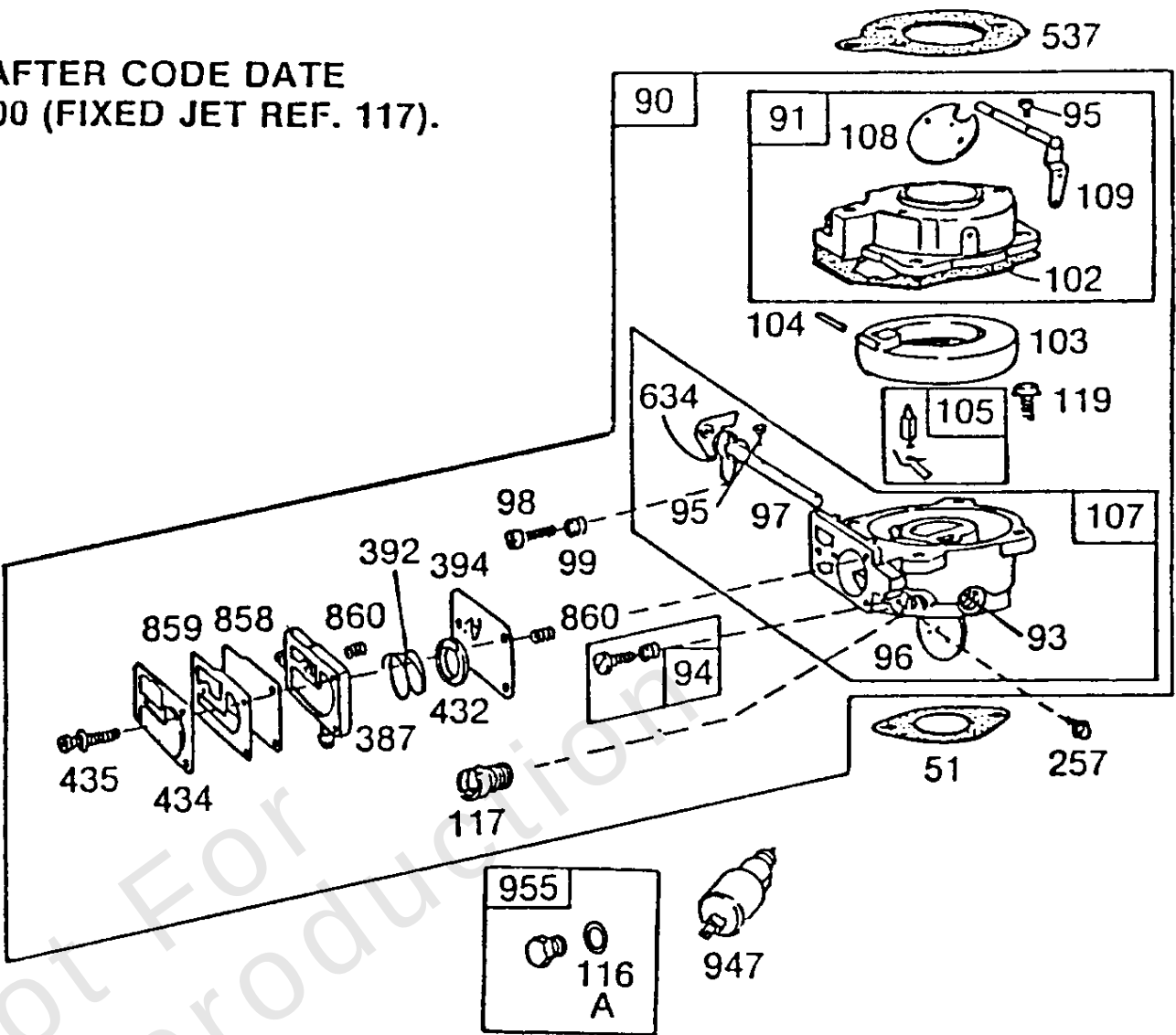
## Carburetor Assemblies

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                        |
|--------|---------|-----|--------------------------------------------------------------------------------------------------------------------|
| 51     | 271412  |     | GASKET, Intake<br>-Included in Carburetor Overhaul Kit-Part No. 394502. Included in Gasket Set-Part No. 394501     |
| 90A    | 394338  |     | CARBURETOR<br>-(Remote Choke)                                                                                      |
| 90     | 397245  |     | CARBURETOR<br>-(Remote Choke)                                                                                      |
| 91A    | 393297  |     | BODY, Upper Carburetor                                                                                             |
| 91     | 397241  |     | BODY, Upper Carburetor<br>-Used Before Code Date 85082600                                                          |
| 91     | 399535  |     | BODY, Upper Carburetor<br>-Used After Code Date 85082500                                                           |
| 92     | 394505  |     | BODY, Upper Carburetor                                                                                             |
| 93     | 231209  |     | BUSHING, Throttle Shaft                                                                                            |
| 94     | 292681  |     | VALVE, Idle Mixture<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                        |
| 95     | 93499   |     | SCREW<br>-(Throttle Valve)                                                                                         |
| 96     | 221939  |     | VALVE, Throttle                                                                                                    |
| 97     | 392672  |     | SHAFT, Throttle                                                                                                    |
| 98     | 91920   |     | SCREW<br>-(8-32 X 5/8)                                                                                             |
| 99     | 26157   |     | SPRING, Compression                                                                                                |
| 102A   | 271008  |     | GASKET, Carburetor Body<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                    |
| 102    | 271607  |     | GASKET, Carburetor Body<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                    |
| 103    | 298514  |     | FLOAT, Carburetor                                                                                                  |
| 104    | 230896  |     | PIN, Float Hinge<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                           |
| 105    | 394681  |     | KIT, Needle/Seat<br>-(Gravity Feed) Included in Carburetor Overhaul Kit-Part No. 394502                            |
| 107A   | 394352  |     | BODY, Lower Carburetor                                                                                             |
| 107    | 397270  |     | BODY, Lower Carburetor<br>-Used Before Code Date 85082600                                                          |
| 107    | 399623  |     | BODY, Lower Carburetor<br>-Used After Code Date 85082500                                                           |
| 108    | 222010  |     | VALVE, Choke<br>-Used Before Code Date 85082600                                                                    |
| 108    | 223534  |     | VALVE, Choke<br>-Used After Code Date 85082500                                                                     |
| 109    | 392673  |     | SHAFT, Choke                                                                                                       |
| 116A   | 280474  |     | SEAL, O-Ring                                                                                                       |
| 116    | 65978   |     | SEAL, O-Ring<br>-(Needle Valve) Included in Carburetor Overhaul Kit-Part No. 394502                                |
| 117    | 231333  |     | JET, Main<br>-(High Altitude)                                                                                      |
| 117    | 231338  |     | JET, Main                                                                                                          |
| 119    | 94152   |     | SCREW<br>-(Upper To Lower Carburetor Body)                                                                         |
| 257    | 93897   |     | SCREW                                                                                                              |
| 387    | 280197  |     | BODY, Fuel Pump                                                                                                    |
| 392    | 261395  |     | SPRING, Pump Diaphragm<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397 |

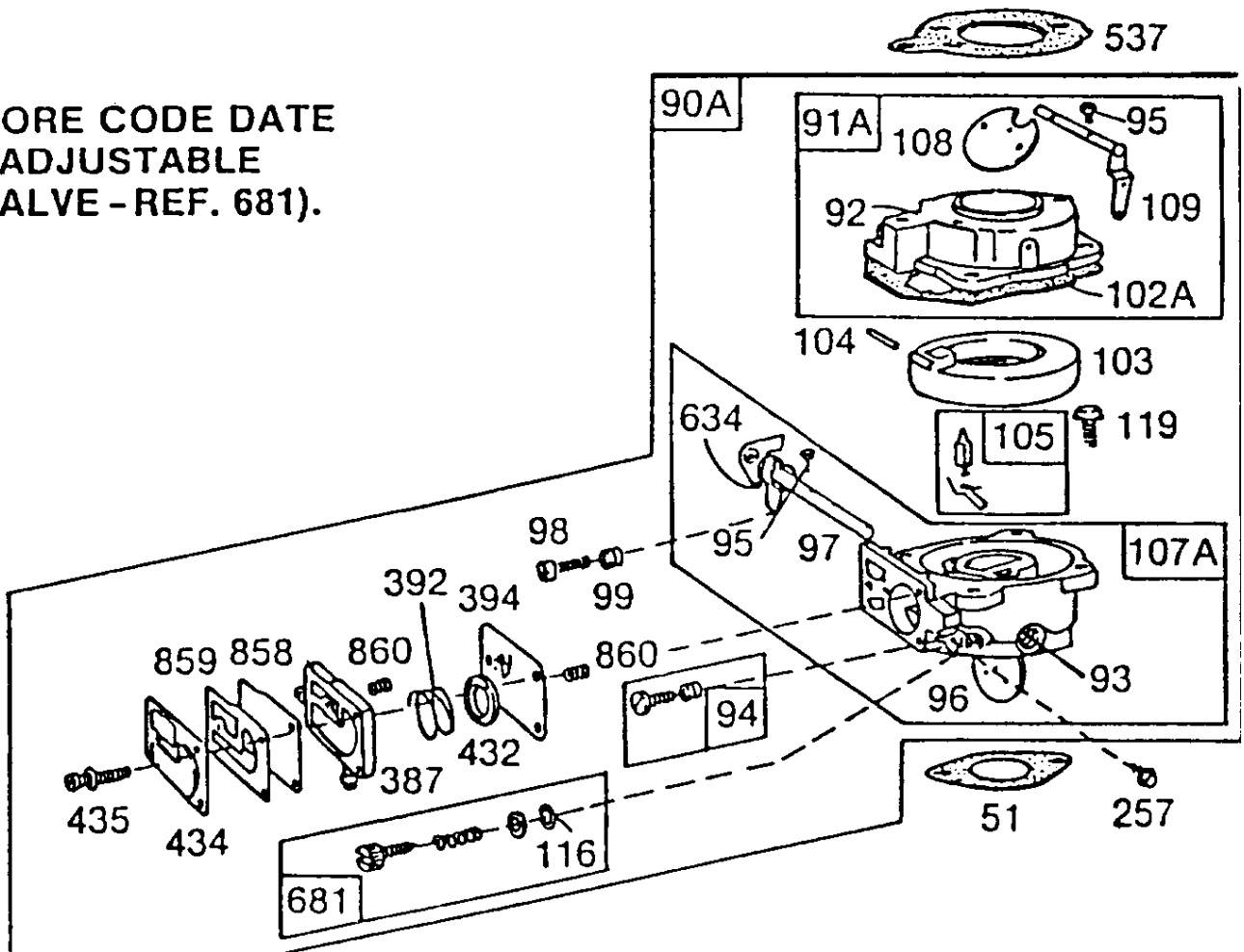
### Footnotes:

AssocPart: 0000000291728

USED AFTER CODE DATE  
84022300 (FIXED JET REF. 117).



USED BEFORE CODE DATE  
84022400 (ADJUSTABLE  
NEEDLE VALVE - REF. 681).



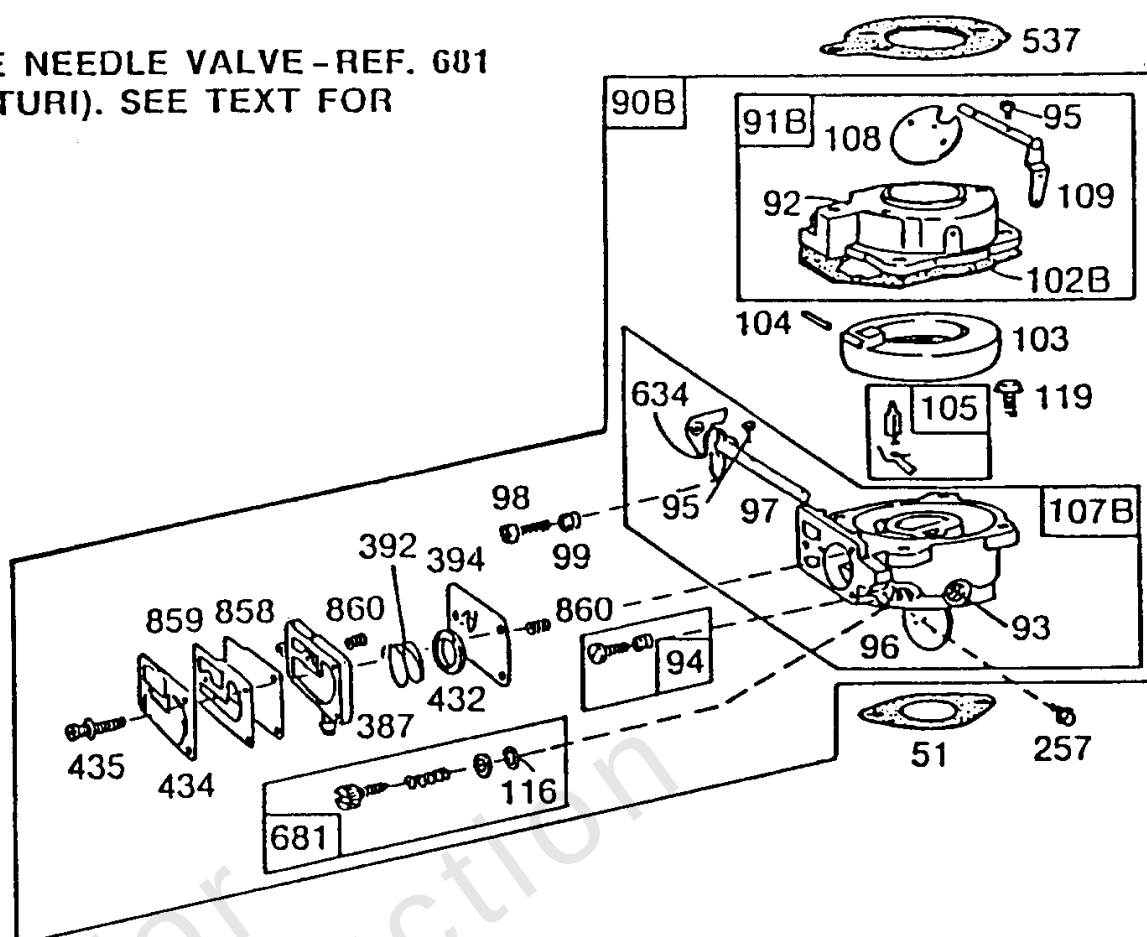
## Carburetor Assemblies

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                         |
|--------|---------|-----|---------------------------------------------------------------------------------------------------------------------|
| 394    | 270988  |     | DIAPHRAGM, Carburetor<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397   |
| 432    | 221377  |     | CAP, Spring<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397             |
| 434    | 222615  |     | COVER, Diaphragm                                                                                                    |
| 435    | 93829   |     | SCREW                                                                                                               |
| 537    | 271411  |     | GASKET, Air Cleaner<br>-Included in Carburetor Overhaul Kit-Part No. 394502. Included in Gasket Set-Part No. 394501 |
| 634    | 271013  |     | WASHER, Sealing<br>-(Foam) Included in Carburetor Overhaul Kit-Part No. 394502                                      |
| 681    | 394033  |     | VALVE, Idle Mixture<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                         |
| 858    | 270989  |     | DIAPHRAGM, Carburetor<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397   |
| 859    | 271025  |     | GASKET, Carburetor Pump<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397 |
| 860    | 261358  |     | SPRING, Valve<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397           |
| 947    | 397266  |     | SOLENOID, Fuel                                                                                                      |
| 955    | 397882  |     | PLUG, Carburetor<br>-(Solenoid Hole)                                                                                |

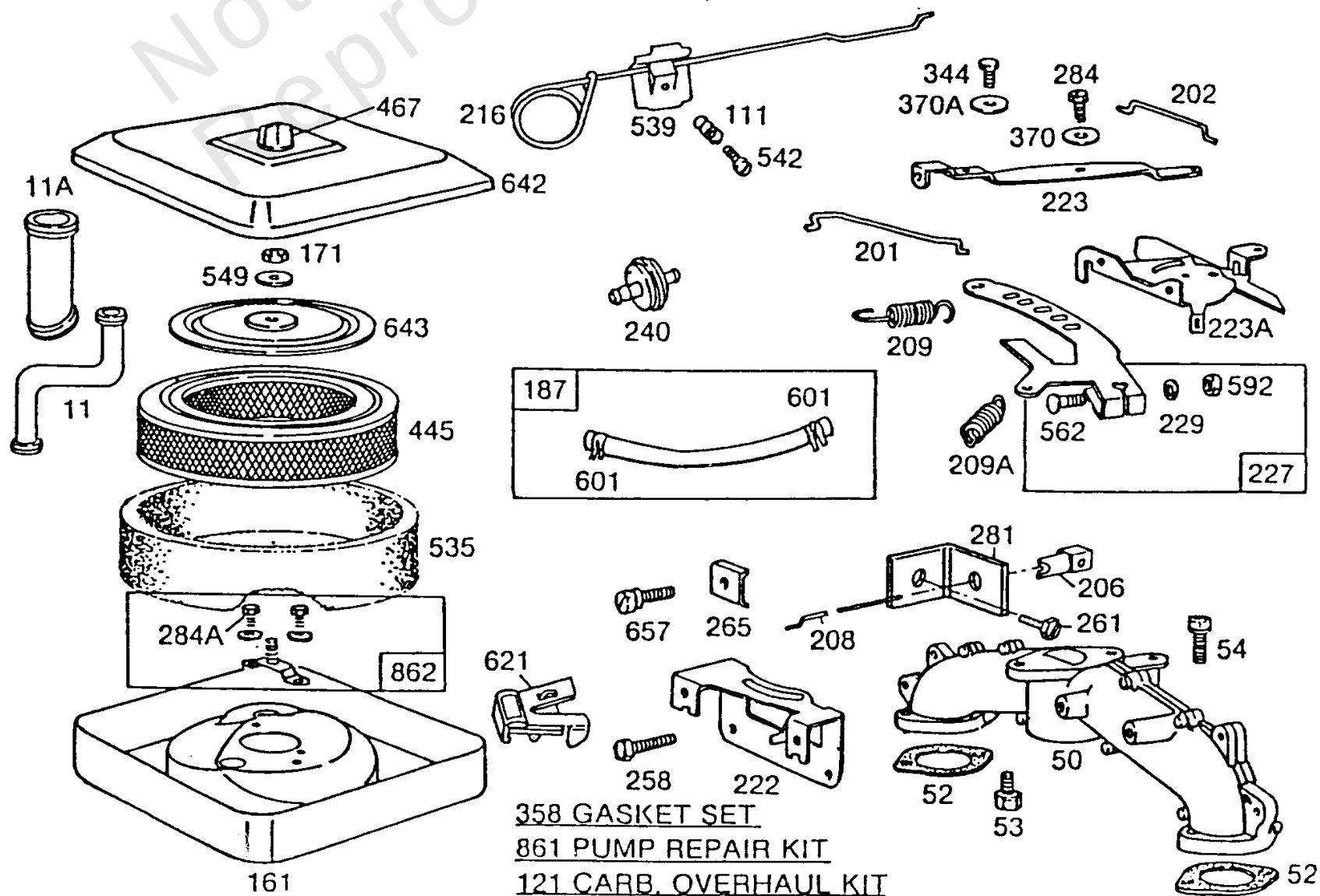
### Footnotes:

AssocPart: 0000000291728

ADJUSTABLE NEEDLE VALVE - REF. 601  
(SMALL VENTURI). SEE TEXT FOR  
TYPE NOS.



THESE PARTS USED WITH ALL CARBURETORS.



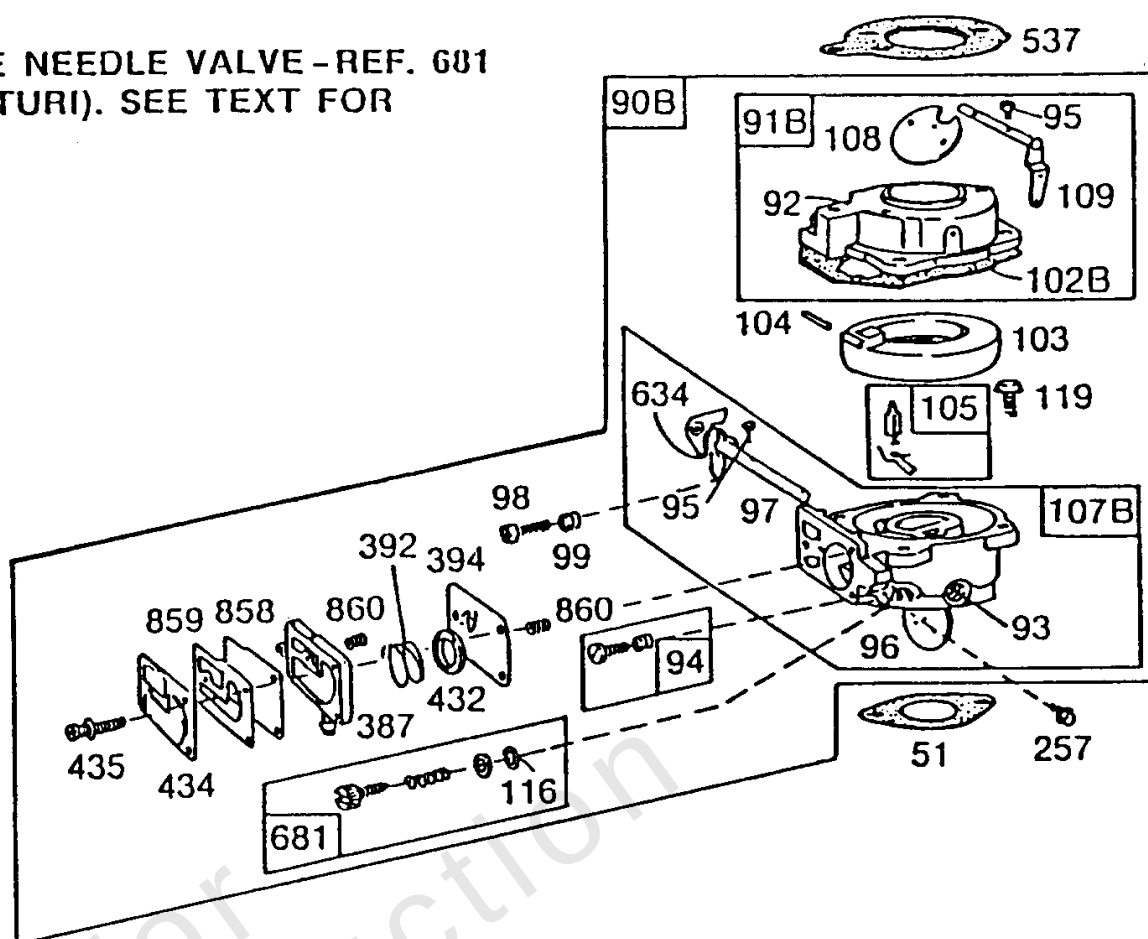
## Carburetor Assemblies, A/C

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                        |
|--------|---------|-----|--------------------------------------------------------------------------------------------------------------------|
| 11A    | 280198  |     | MANIFOLD, Intake                                                                                                   |
| 11     | 280185  |     | TUBE, Breather                                                                                                     |
| 50     | 212999  |     | MANIFOLD, Intake<br>-(Cast Iron)                                                                                   |
| 50     | 393349  |     | MANIFOLD, Intake<br>-(Aluminum)                                                                                    |
| 51     | 271412  |     | GASKET, Intake<br>-Included in Carburetor Overhaul Kit-Part No. 394502. Included in Gasket Set-<br>Part No. 394501 |
| 52     | 270884  |     | GASKET, Intake<br>-Included in Gasket Set-Part No. 394501                                                          |
| 53     | 93415   |     | SCREW<br>-(1/4-20 X 3/4)                                                                                           |
| 54     | 93208   |     | SCREW<br>-(Intake Manifold)                                                                                        |
| 92     | 394505  |     | BODY, Upper Carburetor                                                                                             |
| 93     | 231209  |     | BUSHING, Throttle Shaft                                                                                            |
| 94     | 292681  |     | VALVE, Idle Mixture<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                        |
| 95     | 93499   |     | SCREW<br>-(Throttle Valve)                                                                                         |
| 96     | 221939  |     | VALVE, Throttle                                                                                                    |
| 97     | 392672  |     | SHAFT, Throttle                                                                                                    |
| 98     | 91920   |     | SCREW<br>-(8-32 X 5/8)                                                                                             |
| 99     | 26157   |     | SPRING, Compression                                                                                                |
| 102B   | 271256  |     | GASKET, Carburetor Body<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                    |
| 103    | 298514  |     | FLOAT, Carburetor                                                                                                  |
| 104    | 230896  |     | PIN, Float Hinge<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                           |
| 105    | 394681  |     | KIT, Needle/Seat<br>-(Gravity Feed) Included in Carburetor Overhaul Kit-Part No. 394502                            |
| 108    | 222010  |     | VALVE, Choke<br>-Used Before Code Date 85082600                                                                    |
| 108    | 223534  |     | VALVE, Choke<br>-Used After Code Date 85082500                                                                     |
| 109    | 392673  |     | SHAFT, Choke                                                                                                       |
| 111    | 26155   |     | SPRING, Friction                                                                                                   |
| 116    | 65978   |     | SEAL, O-Ring<br>-(Needle Valve) Included in Carburetor Overhaul Kit-Part No. 394502                                |
| 119    | 94152   |     | SCREW<br>-(Upper To Lower Carburetor Body)                                                                         |
| 121    | 394502  |     | KIT, Carburetor Overhaul                                                                                           |
| 161    | 222752  |     | BASE, Air Cleaner                                                                                                  |
| 171    | 93715   |     | NUT<br>-(Starter Terminal)                                                                                         |
| 187    | 299146  |     | LINE, Fuel<br>-(Cut To Required Length) Cut to Required Length.                                                    |
| 201    | 261444  |     | LINK, Choke                                                                                                        |
| 202    | 261531  |     | LINK, Throttle                                                                                                     |
| 206    | 21772   |     | NUT, Governor Adjusting                                                                                            |
| 208    | 231225  |     | ROD, Governor Control                                                                                              |
| 209A   | 261563  |     | SPRING, Governor<br>-(Idle)                                                                                        |

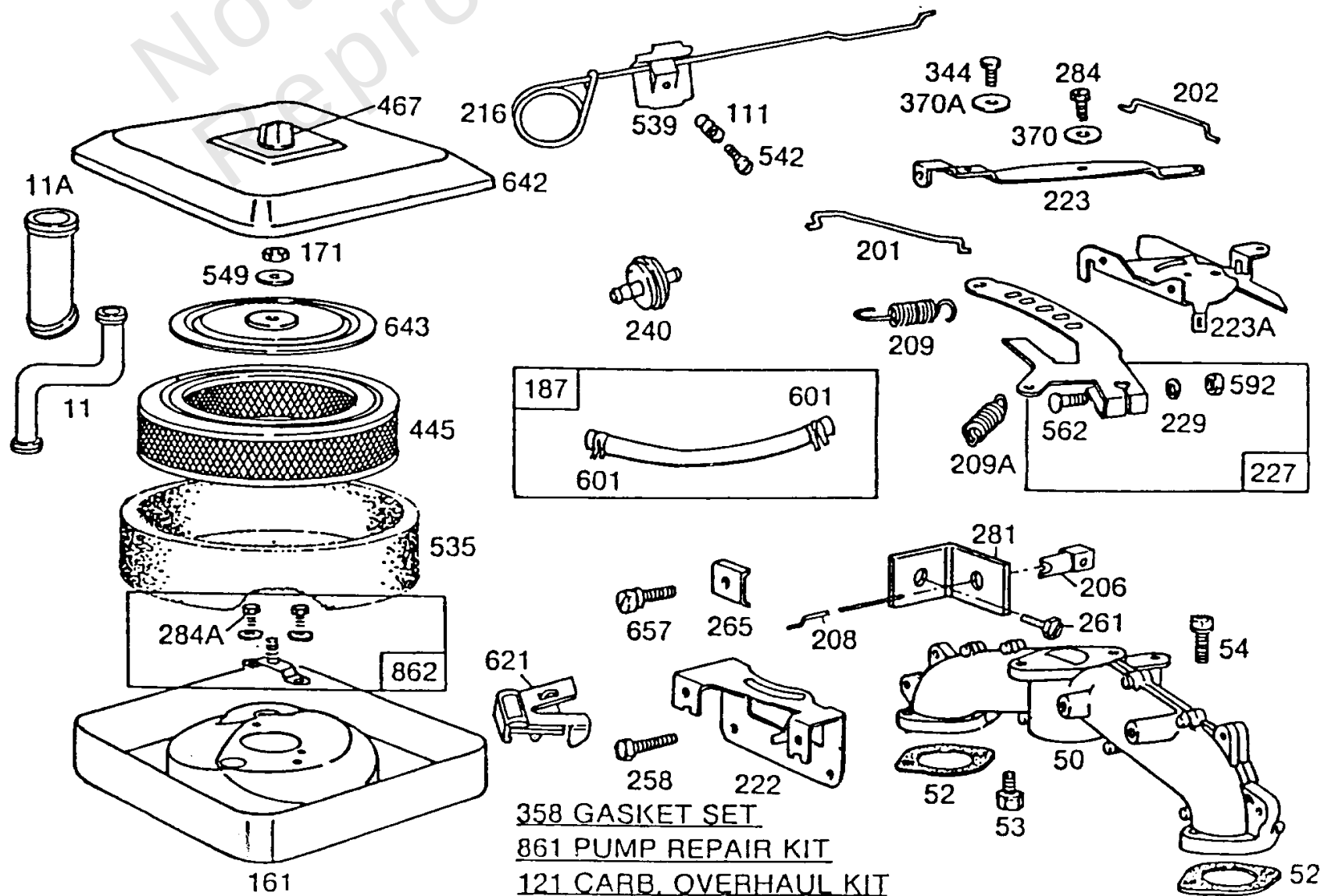
### Footnotes:

AssocPart: 0000000291728

ADJUSTABLE NEEDLE VALVE - REF. 601  
(SMALL VENTURI). SEE TEXT FOR  
TYPE NOS.



THESE PARTS USED WITH ALL CARBURETORS.



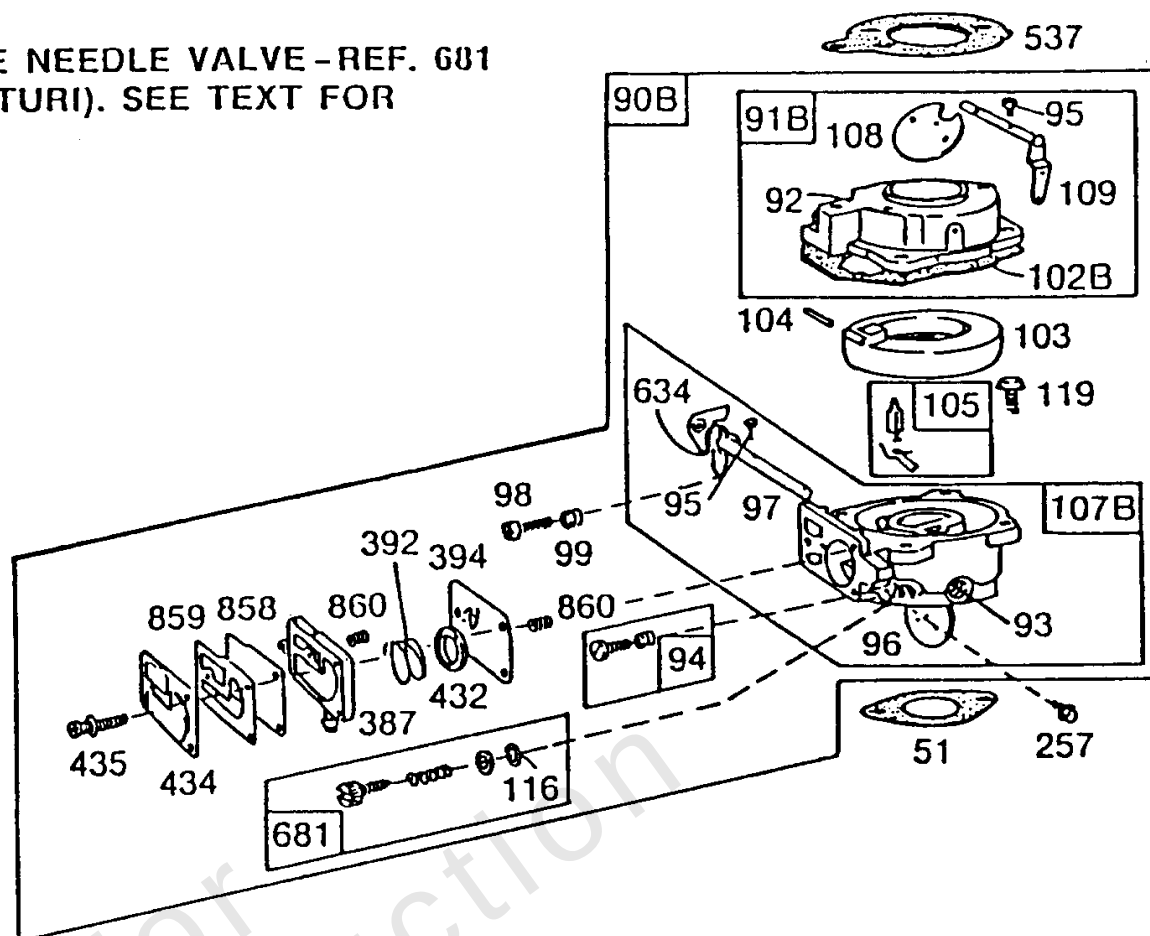
## Carburetor Assemblies, A/C

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                         |
|--------|---------|-----|---------------------------------------------------------------------------------------------------------------------|
| 209    | 261720  |     | SPRING, Governor                                                                                                    |
| 216    | 261511  |     | ROD, Choke                                                                                                          |
| 222    | 222807  |     | BRACKET, Control<br>-Used with: 222766 Plate-Governor Control 222911 Bracket-Generator Control                      |
| 222    | 222807  |     | BRACKET, Control                                                                                                    |
| 223A   | 394324  |     | BRACKET, Governor Control                                                                                           |
| 223    | 222828  |     | LEVER, Speed Adjuster                                                                                               |
| 227    | 393846  |     | LEVER, Governor Control                                                                                             |
| 229    | 222289  |     | WASHER                                                                                                              |
| 240    | 394358  |     | FILTER, Fuel<br>-(Fuel Pump)                                                                                        |
| 257    | 93897   |     | SCREW                                                                                                               |
| 258    | 93163   |     | SCREW                                                                                                               |
| 258    | 93868   |     | SCREW<br>-(Aluminum Manifold)                                                                                       |
| 261    | 94152   |     | SCREW<br>-(Upper To Lower Carburetor Body)                                                                          |
| 265    | 221535  |     | CLAMP, Casing<br>-(Stamped Steel)                                                                                   |
| 281    | 223247  |     | BRACKET, Rod                                                                                                        |
| 284A   | 93893   |     | SCREW                                                                                                               |
| 284    | 93828   |     | SCREW                                                                                                               |
| 344    | 93042   |     | SCREW                                                                                                               |
| 358    | 394501  |     | GASKET SET, Engine                                                                                                  |
| 370A   | 66432   |     | WASHER                                                                                                              |
| 370    | 231172  |     | BUSHING, Lever                                                                                                      |
| 387    | 280197  |     | BODY, Fuel Pump                                                                                                     |
| 392    | 261395  |     | SPRING, Pump Diaphragm<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397  |
| 394    | 270988  |     | DIAPHRAGM, Carburetor<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397   |
| 432    | 221377  |     | CAP, Spring<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397             |
| 434    | 222615  |     | COVER, Diaphragm                                                                                                    |
| 435    | 93829   |     | SCREW                                                                                                               |
| 445    | 394018  |     | FILTER, A/C Cartridge                                                                                               |
| 467    | 212292  |     | KNOB, Air Cleaner Cover                                                                                             |
| 535    | 271271  |     | FILTER, A/C Cartridge                                                                                               |
| 537    | 271411  |     | GASKET, Air Cleaner<br>-Included in Carburetor Overhaul Kit-Part No. 394502. Included in Gasket Set-Part No. 394501 |
| 539    | 221372  |     | CLIP, Control Rod                                                                                                   |
| 542    | 90746   |     | SCREW<br>-(10-32 X 5/8)                                                                                             |
| 549    | 271180  |     | WASHER                                                                                                              |
| 562    | 93853   |     | BOLT<br>-(Governor Lever)                                                                                           |
| 592    | 92278   |     | NUT<br>-(Starting Switch)                                                                                           |
| 601    | 93053   |     | CLAMP, Hose<br>-(Green)                                                                                             |

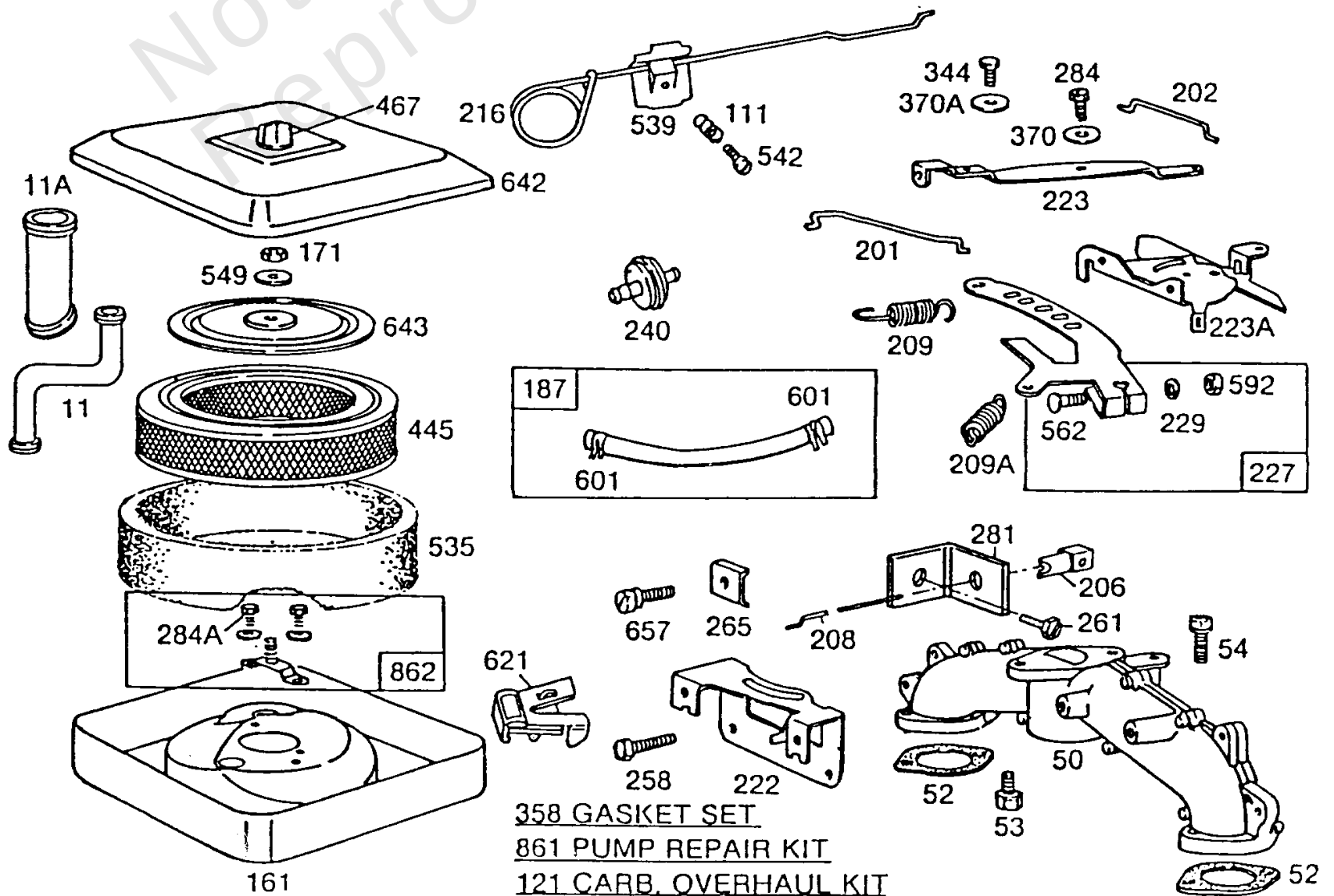
### Footnotes:

AssocPart: 0000000291728

ADJUSTABLE NEEDLE VALVE - REF. 601  
(SMALL VENTURI). SEE TEXT FOR  
TYPE NOS.



THESE PARTS USED WITH ALL CARBURETORS.

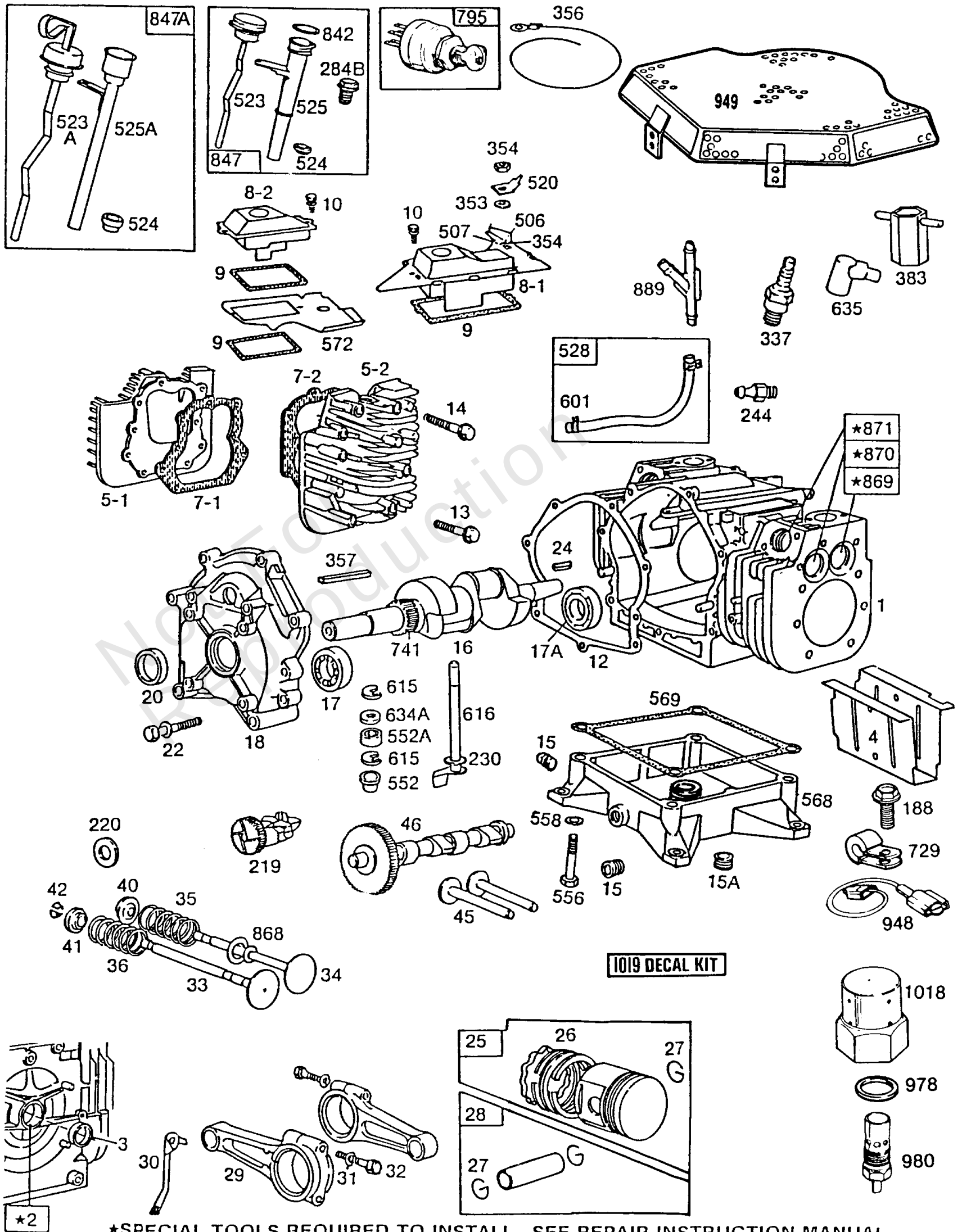


## Carburetor Assemblies, A/C

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                         |
|--------|---------|-----|---------------------------------------------------------------------------------------------------------------------|
| 621    | 297472  |     | SWITCH, Stop<br>-Used Before Code Date 85032800                                                                     |
| 621    | 396847  |     | SWITCH, Stop<br>-Used After Code Date 85032700                                                                      |
| 634    | 271013  |     | WASHER, Sealing<br>-(Foam) Included in Carburetor Overhaul Kit-Part No. 394502                                      |
| 642    | 223001  |     | COVER, Air Cleaner                                                                                                  |
| 643    | 222835  |     | RETAINER, Air Filter                                                                                                |
| 657    | 93496   |     | SCREW<br>-(10-32 X 5/8)                                                                                             |
| 681    | 394033  |     | VALVE, Idle Mixture<br>-Included in Carburetor Overhaul Kit-Part No. 394502                                         |
| 858    | 270989  |     | DIAPHRAGM, Carburetor<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397   |
| 859    | 271025  |     | GASKET, Carburetor Pump<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397 |
| 860    | 261358  |     | SPRING, Valve<br>-Included in Carburetor Overhaul Kit-Part No. 394502 and Pump Repair Kit-Part No. 393397           |
| 861    | 393397  |     | KIT, Fuel Pump<br>-(Used On 3 Screw Fuel Pump Mount Carburetors)                                                    |
| 862    | 392643  |     | STRAP/STUD, Air Cleaner Mounting                                                                                    |

### Footnotes:

AssocPart: 0000000291728



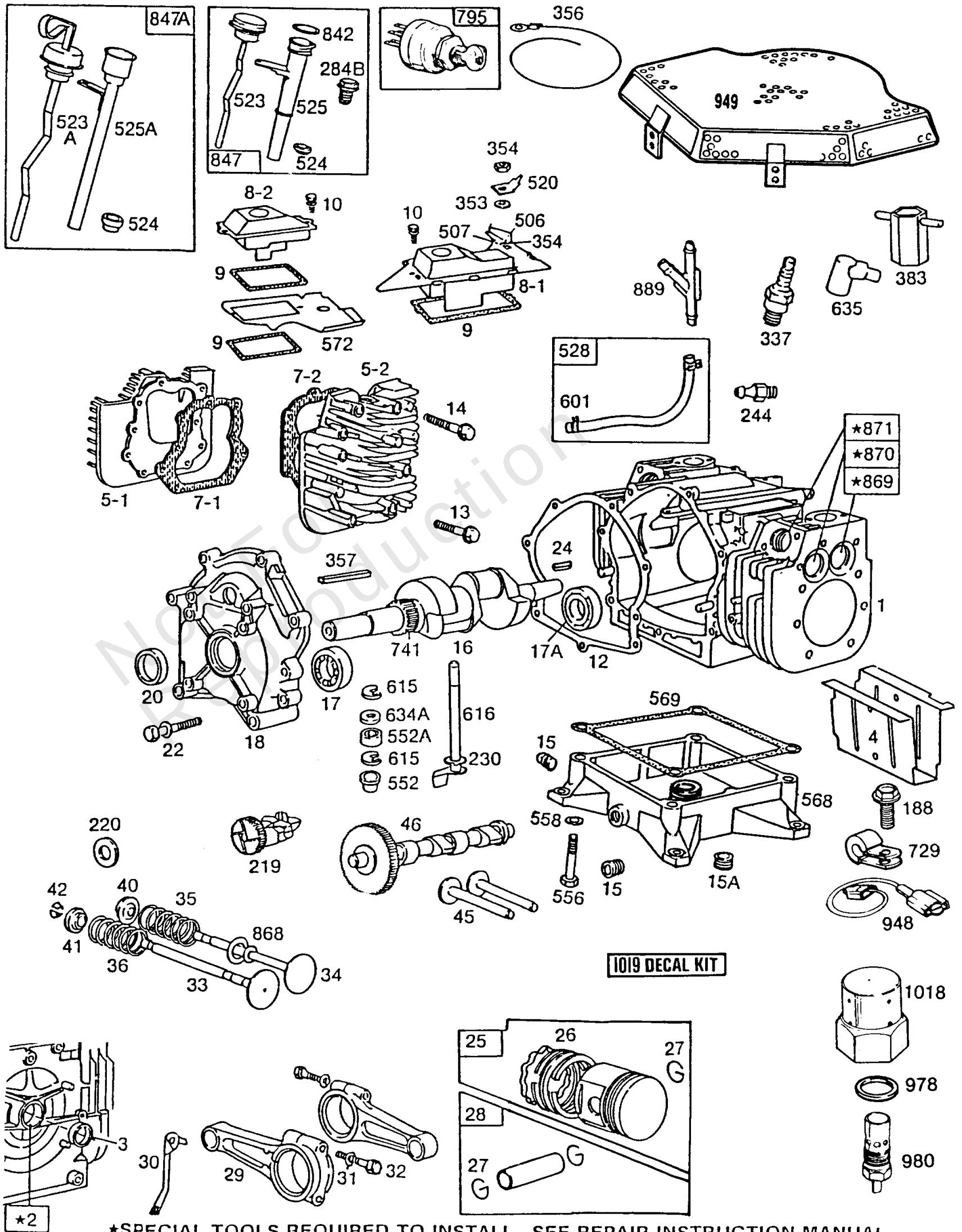
\*SPECIAL TOOLS REQUIRED TO INSTALL - SEE REPAIR INSTRUCTION MANUAL

## Cylinder, Cylinder Heads, Sump

| REF NO | PART NO | QTY | DESCRIPTION                                                                        |
|--------|---------|-----|------------------------------------------------------------------------------------|
| 1      | 394687  |     | CYLINDER ASSEMBLY                                                                  |
| 1      | 394900  |     | CYLINDER ASSEMBLY                                                                  |
| 2      | 261623  |     | KIT, Bushing/Seal                                                                  |
| 3      | 391086  |     | SEAL, Oil<br>-(Magneto Side)                                                       |
| 5-2    | 212462  |     | HEAD, Cylinder<br>-(Cylinder 2)                                                    |
| 5-1    | 212461  |     | HEAD, Cylinder<br>-(Cylinder 1)                                                    |
| 7-1    | 270984  |     | GASKET, Cylinder Head<br>-(Cylinder 1) Included in Gasket Set-Part No. 394501      |
| 7-2    | 270983  |     | GASKET, Cylinder Head<br>-(Cylinder 2) Included in Gasket Set-Part No. 394501      |
| 8-1    | 393243  |     | BREATHER ASSEMBLY<br>-(#1)                                                         |
| 8-2    | 393153  |     | BREATHER ASSEMBLY<br>-(Cylinder 2)                                                 |
| 9      | 27803   |     | GASKET, Rocker Cover<br>-Included in Gasket Set-Part No. 394501                    |
| 10     | 93394   |     | SCREW                                                                              |
| 12     | 270982  |     | GASKET, Crankcase<br>-(1/64) Included in Gasket Set-Part No. 394501                |
| 12     | 271145  |     | GASKET, Crankcase<br>-(.005) Included in Gasket Set-Part No. 394501                |
| 12     | 271146  |     | GASKET, Crankcase<br>-(.009) Included in Gasket Set-Part No. 394501                |
| 13     | 93111   |     | SCREW<br>-(15/16)                                                                  |
| 13     | 93772   |     | STUD<br>-(15/16)                                                                   |
| 14     | 93113   |     | SCREW<br>-(2 5/16) (2-5/16)                                                        |
| 14     | 93583   |     | STUD<br>-(Cylinder Head)                                                           |
| 15A    | 93448   |     | PLUG, Oil Drain<br>-(Flush) (1/4-18 NPTF) (Flush) (1/4 18 NPTF)                    |
| 15     | 91084   |     | PLUG, Oil Drain<br>-(3/8)                                                          |
| 16     | 394585  |     | CRANKSHAFT<br>-Order Part 94196 Key or 231160 Pin for Timing Gear Retaining Device |
| 17A    | 393980  |     | BEARING, Ball<br>-(Magneto Side)                                                   |
| 17     | 393741  |     | BEARING, Ball<br>-(PTO Side)                                                       |
| 18     | 394309  |     | COVER, Crankcase<br>-(Plain Bearing)                                               |
| 20     | 291675  |     | SEAL, Oil<br>-(Crankcase Cover)                                                    |
| 22     | 93847   |     | SCREW<br>-(Fuel Tank) (Tank)                                                       |
| 24     | 222698  |     | KEY, Flywheel                                                                      |
| 24     | 61760   |     | KEY, Flywheel<br>-(Breaker Ignition)                                               |
| 25     | 394955  |     | PISTON ASSEMBLY<br>-(Standard)                                                     |
| 25     | 394956  |     | PISTON ASSEMBLY<br>-(.010 Oversize)                                                |

### Footnotes:

AssocPart: 0000000291728

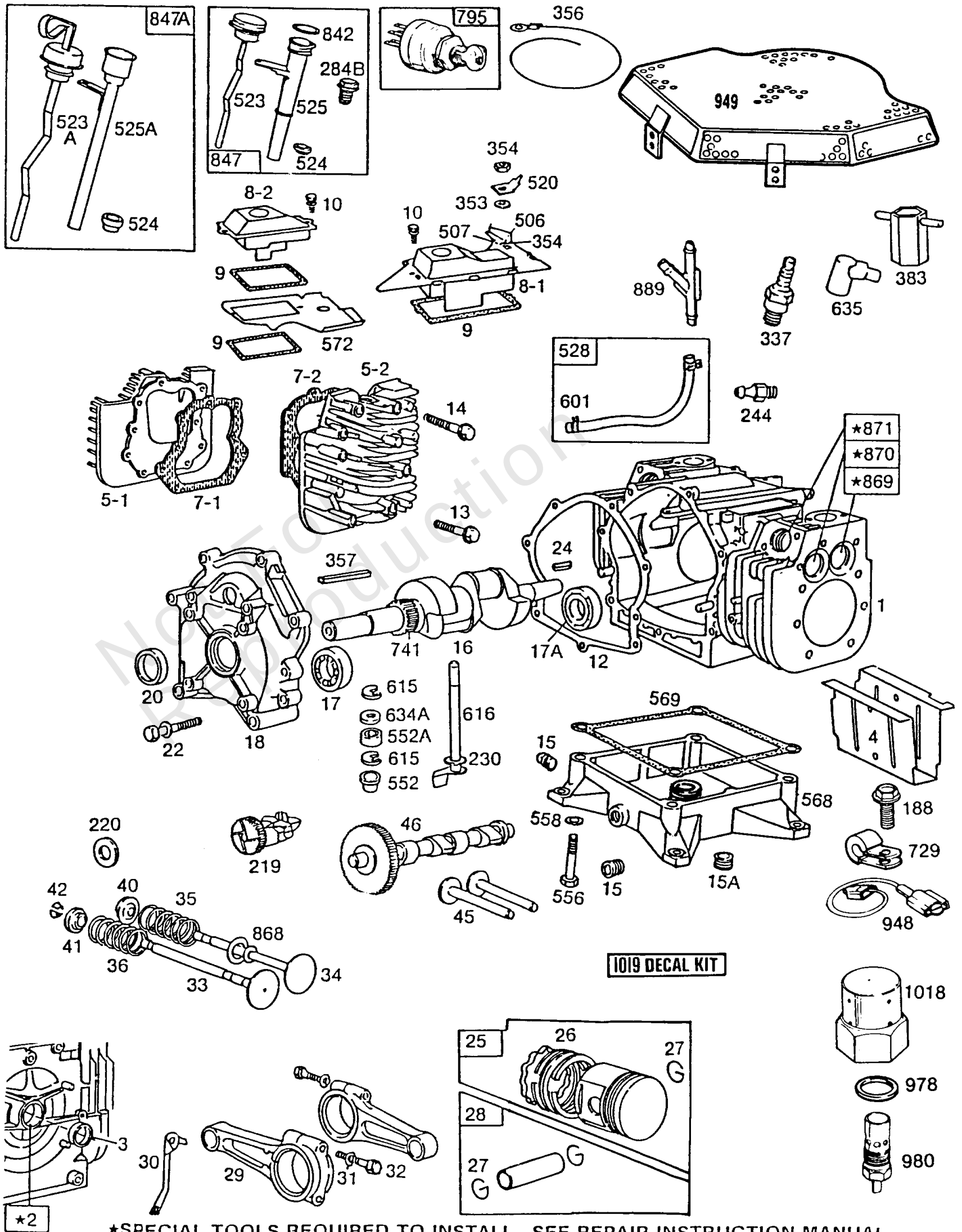


## Cylinder, Cylinder Heads, Sump

| REF NO | PART NO | QTY | DESCRIPTION                                                                     |
|--------|---------|-----|---------------------------------------------------------------------------------|
| 25     | 394957  |     | PISTON ASSEMBLY<br>-(.020 Oversize)                                             |
| 25     | 394958  |     | PISTON ASSEMBLY<br>-(.030 Oversize)                                             |
| 26     | 394959  |     | SET, Ring<br>-(Standard)                                                        |
| 26     | 394960  |     | SET, Ring<br>-(.010 Oversize)                                                   |
| 26     | 394961  |     | SET, Ring<br>-(.020 Oversize)                                                   |
| 26     | 394962  |     | SET, Ring<br>-(.030 Oversize)                                                   |
| 27     | 260924  |     | LOCK, Piston Pin                                                                |
| 28     | 299691  |     | PIN, Piston<br>-(Standard)                                                      |
| 28     | 391286  |     | PIN, Piston<br>-(.005 Oversize)                                                 |
| 29     | 394306  |     | ROD, Connecting<br>-For Connecting Rod with .020 Crankpin Bore-Order No. 397158 |
| 30     | 223053  |     | DIPPER, Connecting Rod                                                          |
| 31     | 220863  |     | WASHER<br>-(1/4 X 5/8 X 1/32) (1/4 X 5/8 X 1/32)                                |
| 32     | 92909   |     | SCREW                                                                           |
| 33     | 390420  |     | VALVE, Exhaust<br>-(Includes Retainer(s))                                       |
| 34     | 261528  |     | VALVE, Intake<br>-Uses: 393606 Seal Assy. and Retainer (Ref. No. 868)           |
| 35     | 65906   |     | SPRING, Valve<br>-(Intake)                                                      |
| 36     | 26828   |     | SPRING, Valve<br>-(Exhaust)                                                     |
| 40     | 221596  |     | RETAINER, Valve<br>-(Valves With Groove In Stem)                                |
| 41     | 292260  |     | RETAINER, Valve<br>-(Exhaust Valve) (Exhaust)                                   |
| 42     | 93630   |     | KEEPER, Valve<br>-(2)                                                           |
| 45     | 261368  |     | TAPPET, Valve                                                                   |
| 46     | 212337  |     | CAMSHAFT<br>-(Used with Electronic Ignition)                                    |
| 46     | 212415  |     | CAMSHAFT<br>-(Used only with Cyl. Hds. 212461 & 212462)                         |
| 188    | 93868   |     | SCREW<br>-(Aluminum Manifold)                                                   |
| 219    | 394348  |     | GEAR, Governor                                                                  |
| 220    | 222773  |     | WASHER, Thrust                                                                  |
| 230    | 220863  |     | WASHER<br>-(1/4 X 5/8 X 1/32) (1/4 X 5/8 X 1/32)                                |
| 244    | 230318  |     | CONNECTOR, Hose                                                                 |
| 284B   | 93886   |     | SCREW                                                                           |
| 337    | 394539  |     | PLUG, Spark<br>-(Resistor)                                                      |
| 353    | 92791   |     | WASHER                                                                          |
| 354    | 90576   |     | NUT<br>-(Ground Terminal)                                                       |

### Footnotes:

AssocPart: 0000000291728

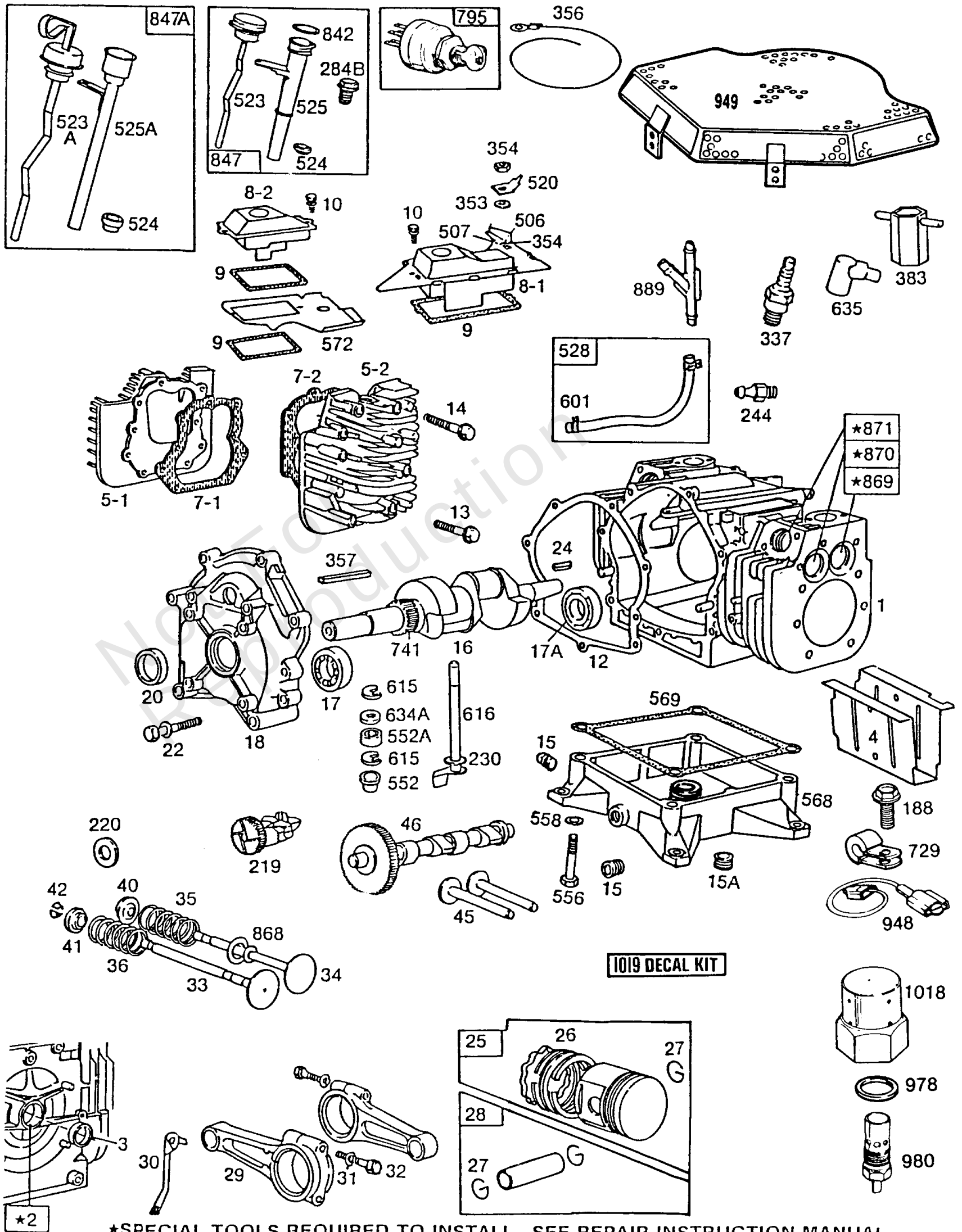


## Cylinder,Cylinder Heads,Sump

| REF NO | PART NO | QTY | DESCRIPTION                                                         |
|--------|---------|-----|---------------------------------------------------------------------|
| 356    | 391115  |     | WIRE, Stop                                                          |
| 356    | 393035  |     | WIRE, Stop                                                          |
| 357    | 91540   |     | KEY, Drive Pulley<br>-(1/4)                                         |
| 383    | 89838   |     | WRENCH, Spark Plug                                                  |
| 506    | 231174  |     | TERMINAL, Ground                                                    |
| 507    | 280180  |     | INSULATOR                                                           |
| 520    | 93722   |     | TERMINAL, Ground                                                    |
| 523A   | 394014  |     | DIPSTICK                                                            |
| 523    | 398924  |     | CAP, Oil Fill                                                       |
| 524    | 68838   |     | SEAL, O-Ring<br>-(Dipstick Tube)                                    |
| 525A   | 392782  |     | TUBE, Dipstick                                                      |
| 525    | 280220  |     | TUBE, Dipstick                                                      |
| 528    | 296004  |     | LINE, Fuel<br>-(Cut To Required Length) Cut to Required Length.     |
| 528    | 393815  |     | HOSE, Vacuum<br>-(Cylinder To Impulse Pump)(Cut To Required Length) |
| 552A   | 261560  |     | BUSHING, Governor Crank<br>-(Upper)                                 |
| 552    | 261559  |     | BUSHING, Governor Crank<br>-(Lower)                                 |
| 556    | 93783   |     | SCREW                                                               |
| 558    | 92268   |     | WASHER<br>-(3/8 X 1/8 X 3/32)                                       |
| 568    | 394391  |     | SUMP, Engine                                                        |
| 569    | 270981  |     | GASKET, Crankcase<br>-Included in Gasket Set-Part No. 394501        |
| 572    | 222700  |     | GUIDE, Air<br>-(Cylinder 2)                                         |
| 601    | 93053   |     | CLAMP, Hose<br>-(Green)                                             |
| 615    | 93851   |     | RETAINER, E Ring                                                    |
| 616    | 394396  |     | CRANK, Governor                                                     |
| 634A   | 271316  |     | SEAL, Governor Shaft<br>-(Foam)                                     |
| 635    | 66538   |     | BOOT, Spark Plug                                                    |
| 729    | 94292   |     | CLIP, Wire                                                          |
| 741    | 261363  |     | GEAR, Timing<br>-(Pin)                                              |
| 741    | 262221  |     | GEAR, Timing<br>-(Key)                                              |
| 795    | 490066  |     | SWITCH, Key                                                         |
| 842    | 271170  |     | SEAL, O-Ring<br>-(Dipstick Tube)                                    |
| 847A   | 394023  |     | DIPSTICK/TUBE ASSEMBLY                                              |
| 847    | 398990  |     | DIPSTICK/TUBE ASSEMBLY                                              |
| 868    | 393606  |     | SEAL, Valve                                                         |
| 869    | 261463  |     | SEAT, Valve<br>-(Intake)                                            |
| 870    | 210940  |     | SEAT, Valve<br>-(Exhaust) (Standard)                                |
| 871    | 231218  |     | BUSHING, Valve Guide<br>-(Intake)                                   |

### Footnotes:

AssocPart: 0000000291728

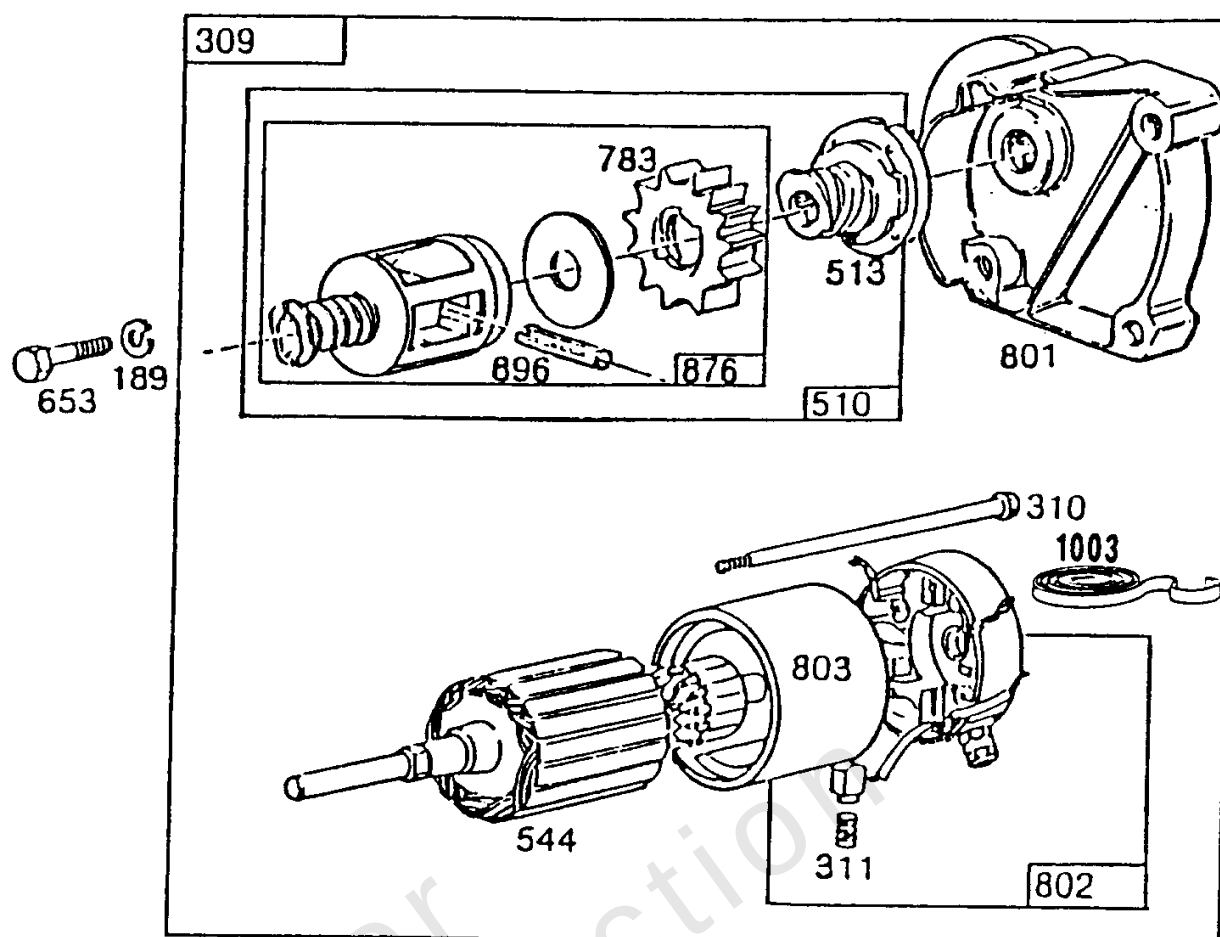


\*SPECIAL TOOLS REQUIRED TO INSTALL - SEE REPAIR INSTRUCTION MANUAL

Cylinder,Cylinder Heads,Sump

| REF NO | PART NO | QTY | DESCRIPTION                        |
|--------|---------|-----|------------------------------------|
| 871    | 261961  |     | BUSHING, Valve Guide<br>-(Exhaust) |
| 948    | 490574  |     | WIRE ASSEMBLY                      |
| 949    | 393330  |     | GUARD, Debris Screen               |
| 978    | 271984  |     | WASHER, Sealing                    |
| 980    | 490916  |     | SENSOR, Oil                        |
| 1018   | 231540  |     | CAP, Oil Sensor                    |
| 1019   | 491262  |     | KIT, Label                         |

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| Subject              |                   | Ref. No.<br>309          | Ref. No.<br>310 | Ref. No.<br>311   | Ref. No.<br>801        | Ref. No.<br>802             | Ref. No.<br>803     | Ref. No.<br>544      | Ref. No.<br>1003 |
|----------------------|-------------------|--------------------------|-----------------|-------------------|------------------------|-----------------------------|---------------------|----------------------|------------------|
| Starter Motor Mfr.   |                   | Motor and<br>Drive Assy. | Thru<br>Bolt    | Brush<br>Assembly | End Cap<br>Assy. Drive | End Cap Assy.<br>Commutator | Housing<br>Assembly | Armature<br>Assembly | Brush<br>Spring  |
| Briggs &<br>Stratton | Housing<br>Length |                          |                 |                   |                        |                             |                     |                      |                  |
| †12V                 | 3"                | 393017                   | 93887           | 391705            | 393009                 | 394674                      | **                  | 390837               | —                |
| 12V                  | 3-5/8"            | 394808                   | 94003           | 395538            | 394860                 | ††395537                    | 393825              | 390837               | —                |
| 12V                  | 4-1/2"            | 399928                   | 94169           | 490311            | 394860                 | 490310                      | 399172              | 490309               | 490316           |

| Subject            | Ref. No.<br>513    | Ref. No.<br>783 | Ref. No.<br>876      | Ref. No.<br>896 | Ref. No.<br>510        |
|--------------------|--------------------|-----------------|----------------------|-----------------|------------------------|
| Starter Motor Mfr. | Clutch<br>Assembly | Gear            | Pinion<br>Spring Kit | Roll Pin        | Starter Drive<br>Group |
| Briggs & Stratton  |                    |                 |                      |                 |                        |
| 12V                | 391135             | 280104          | 393254               | 93754           | 396865                 |

**NOTE: Style Identification of 12 volt motors.**

**NEW STYLE:** Thru bolt heads are located on the drive end head.

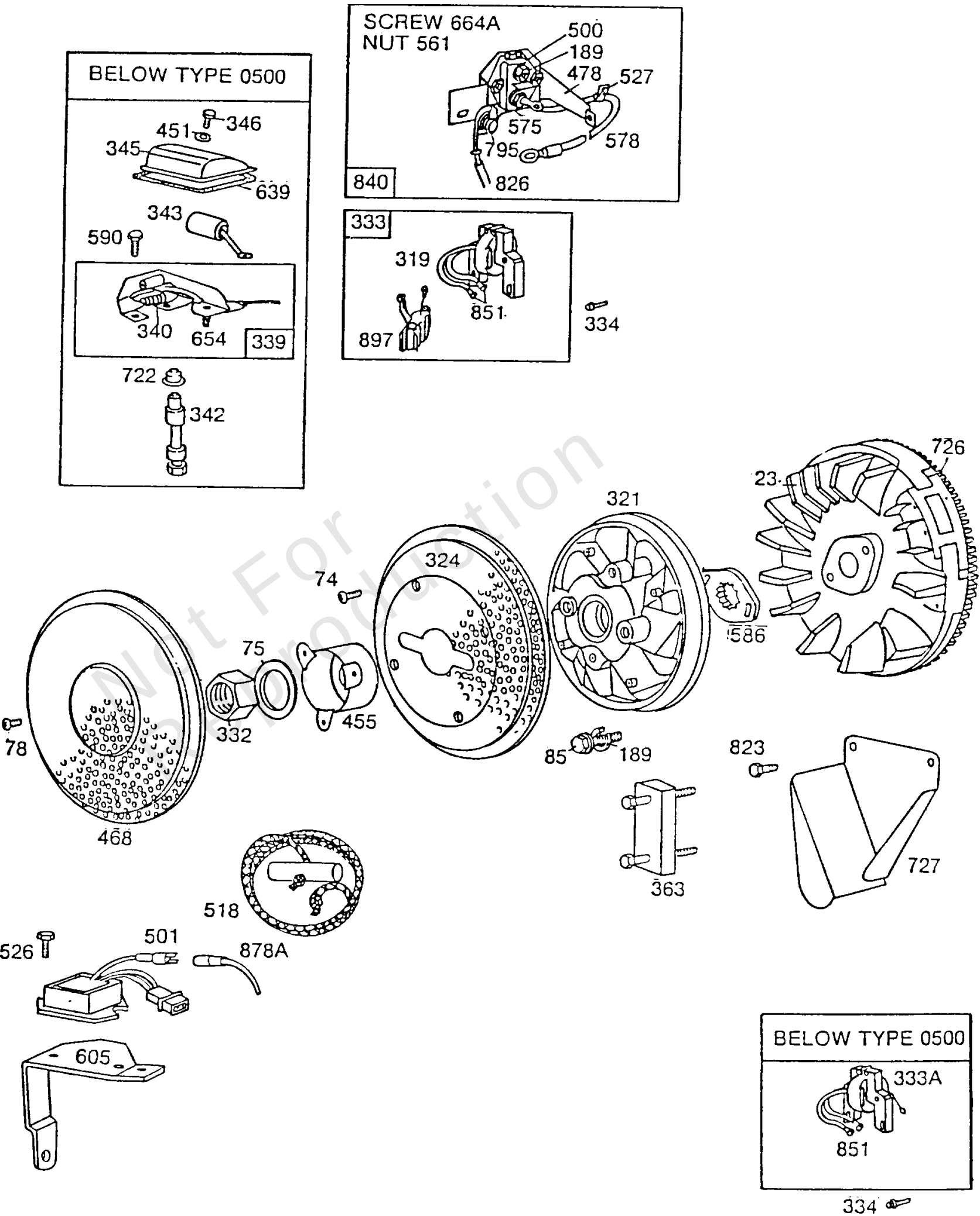
†OLD STYLE: Brush end head is 13/16" wide.

††See Text — Ref. 309 for Specials.

**\*\*Part not available. Use 394808 Motor Drive Assembly.**

## Electric Starter and Chart

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                        |
|--------|---------|-----|--------------------------------------------------------------------------------------------------------------------|
| 189    | 90366   |     | WASHER                                                                                                             |
| 309    | 393017  |     | MOTOR, Starter<br>-(3 Housing) (Briggs & Stratton 12V) OLD STYLE: Brush end head is 13/16 wide.                    |
| 309    | 394808  |     | MOTOR, Starter<br>-(3 5/8 Housing)                                                                                 |
| 309    | 399928  |     | MOTOR, Starter<br>-(4 1/2 Housing)                                                                                 |
| 310    | 93887   |     | SCREW<br>-(3 Housing) (Briggs & Stratton 12V) OLD STYLE: Brush end head is 13/16 wide.                             |
| 310    | 94003   |     | SCREW<br>-(3 5/8 Housing)                                                                                          |
| 310    | 94169   |     | SCREW<br>-(4 1/2 Housing)                                                                                          |
| 311    | 391705  |     | SET, Brush<br>-(3 1/16 Housing) OLD STYLE: Brush end head is 13/16 wide.                                           |
| 311    | 395538  |     | SET, Brush<br>-(3-5/8 or 4 3/8 Housing)                                                                            |
| 311    | 490311  |     | SET, Brush<br>-(4 9/16 Housing)                                                                                    |
| 510    | 396865  |     | DRIVE, Starter<br>-(3 21/32 Housing)                                                                               |
| 513    | 391135  |     | CLUTCH, Starter                                                                                                    |
| 544    | 390837  |     | ARMATURE, Starter<br>-(3 5/8 Housing) OLD STYLE: Brush end head is 13/16 wide.                                     |
| 544    | 390837  |     | ARMATURE, Starter<br>-(3 5/8 Housing)                                                                              |
| 544    | 490309  |     | ARMATURE, Starter<br>-(4 9/16 or 4 3/8 Housing)                                                                    |
| 653    | 91162   |     | SCREW<br>-(5/16-18 X 1-1/2)                                                                                        |
| 783    | 280104  |     | GEAR, Pinion<br>-(Briggs & Stratton 12V)                                                                           |
| 801    | 393009  |     | CAP, Drive<br>-(3 Housing) (Briggs & Stratton 12V) OLD STYLE: Brush end head is 13/16 wide.                        |
| 801    | 394860  |     | CAP, End<br>-(3-5/8 or 4 1/2 Housing)                                                                              |
| 802    | 394674  |     | CAP, End<br>-(3 Housing) (Briggs & Stratton 12V) OLD STYLE: Brush end head is 13/16 wide.                          |
| 802    | 395537  |     | CAP, End<br>-(3 5/8 Housing)                                                                                       |
| 802    | 490310  |     | HOUSING, Brush End<br>-(4 1/2 or 4 9/16 Housing)                                                                   |
| 803    | -----   |     | No Nomenclature<br>-OLD STYLE: Brush end head is 13/16" wide. Part not available. Use 394808 Motor Drive Assembly. |
| 803    | 393825  |     | HOUSING, Starter<br>-(3 5/8 Housing)                                                                               |
| 803    | 399172  |     | HOUSING, Starter<br>-(4 1/2 or 4 9/16 Housing)                                                                     |
| 876    | 393254  |     | DRIVE, Starter<br>-(Briggs & Stratton 12V)                                                                         |
| 896    | 93754   |     | PIN, Drive Retainer<br>-(Briggs & Stratton 12V)                                                                    |
| 1003   | 490316  |     | SPRING, Brush<br>-(4 1/2 or 4 9/16 Housing)                                                                        |

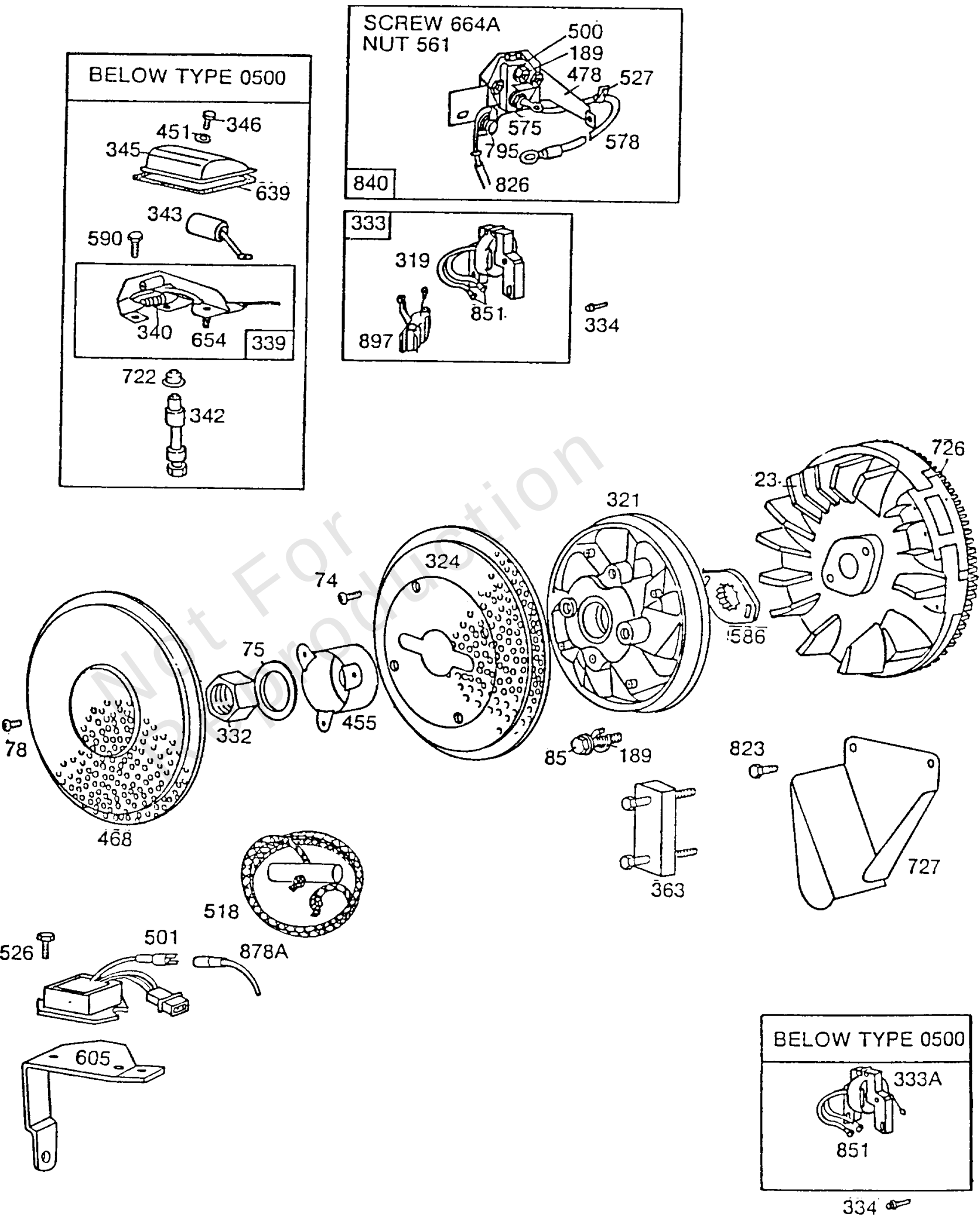


## Electrical, Flywheel, Screens

| REF NO | PART NO | QTY | DESCRIPTION                                                                      |
|--------|---------|-----|----------------------------------------------------------------------------------|
| 23     | 392956  |     | FLYWHEEL                                                                         |
| 74     | 93808   |     | SCREW                                                                            |
| 75     | 222511  |     | WASHER<br>-(Spring)                                                              |
| 78     | 93805   |     | SCREW                                                                            |
| 85     | 92674   |     | SCREW<br>-(2-7/16)                                                               |
| 189    | 90366   |     | WASHER                                                                           |
| 319    | 394988  |     | ARMATURE, Magneto                                                                |
| 321    | 212370  |     | FAN, Booster<br>-(8)                                                             |
| 324    | 222872  |     | SCREEN, Rotating                                                                 |
| 332    | 230674  |     | NUT                                                                              |
| 333A   | 392329  |     | ARMATURE, Magneto                                                                |
| 333    | 394891  |     | ARMATURE, Magneto<br>-(Magnetron Ignition)                                       |
| 334    | 93381   |     | SCREW                                                                            |
| 339    | 393403  |     | BREAKER, Ignition<br>-For Conversion to MAGNETRON Ignition Order Part No. 394891 |
| 340    | 26018   |     | SPRING, Breaker Arm                                                              |
| 342    | 393598  |     | PLUNGER, Breaker                                                                 |
| 343    | 392912  |     | CONDENSER                                                                        |
| 345    | 212259  |     | COVER, Breaker                                                                   |
| 346    | 93854   |     | SCREW                                                                            |
| 363    | 19203   |     | PULLER, Flywheel                                                                 |
| 451    | 271037  |     | WASHER<br>-(Breaker)                                                             |
| 455    | 222674  |     | CUP, Flywheel                                                                    |
| 468    | 222673  |     | SCREEN, Rotating                                                                 |
| 478    | 223106  |     | BRACKET, Stopswitch<br>-(Toggle Switch)                                          |
| 478    | 223144  |     | BRACKET, Stopswitch<br>-(Key Switch)                                             |
| 500    | 91325   |     | WASHER                                                                           |
| 501    | 394890  |     | REGULATOR<br>-(10, 13, or 16 Amp, Depending on Size of Flywheel Magnets)         |
| 518    | 69932   |     | GRIP, Starter Rope                                                               |
| 526    | 93559   |     | SCREW<br>-(Tank) (Fuel Tank)                                                     |
| 527    | 220162  |     | CLIP, Wire                                                                       |
| 561    | 92278   |     | NUT<br>-(Starting Switch)                                                        |
| 575    | 299139  |     | SWITCH, Starting                                                                 |
| 578    | 394518  |     | WIRE ASSEMBLY                                                                    |
| 586    | 22906   |     | RETAINER                                                                         |
| 590    | 93171   |     | SCREW                                                                            |
| 605    | 222959  |     | BRACKET, Support<br>-Used After Code Date 83052700                               |
| 639    | 271039  |     | GASKET, Breather<br>-Included in Gasket Set-Part No. 394501                      |
| 654    | 230783  |     | NUT                                                                              |
| 664A   | 93415   |     | SCREW<br>-(1/4-20 X 3/4)                                                         |

### Footnotes:

AssocPart: 0000000291728



## ***Electrical, Flywheel, Screens***

| REF NO | PART NO | QTY | DESCRIPTION                                 |
|--------|---------|-----|---------------------------------------------|
| 722    | 280222  |     | SEAL, Plunger                               |
| 726    | 391362  |     | GEAR, Ring<br>-(Includes Mounting Hardware) |
| 727    | 222987  |     | GUARD, Flywheel                             |
| 795    | 490066  |     | SWITCH, Key                                 |
| 823    | 93535   |     | SCREW<br>-(5/16-18 X 3/4)                   |
| 826    | 394667  |     | WIRE, Stop                                  |
| 840    | 394583  |     | KIT, Panel<br>-(Toggle Switch)              |
| 840    | 396573  |     | KIT, Panel<br>-(Key Switch)                 |
| 851    | 221798  |     | TERMINAL, Spark Plug                        |
| 878A   | 393422  |     | WIRE ASSEMBLY<br>-(Dc Only)                 |
| 897    | 394970  |     | KIT, Magnetron Ignition                     |

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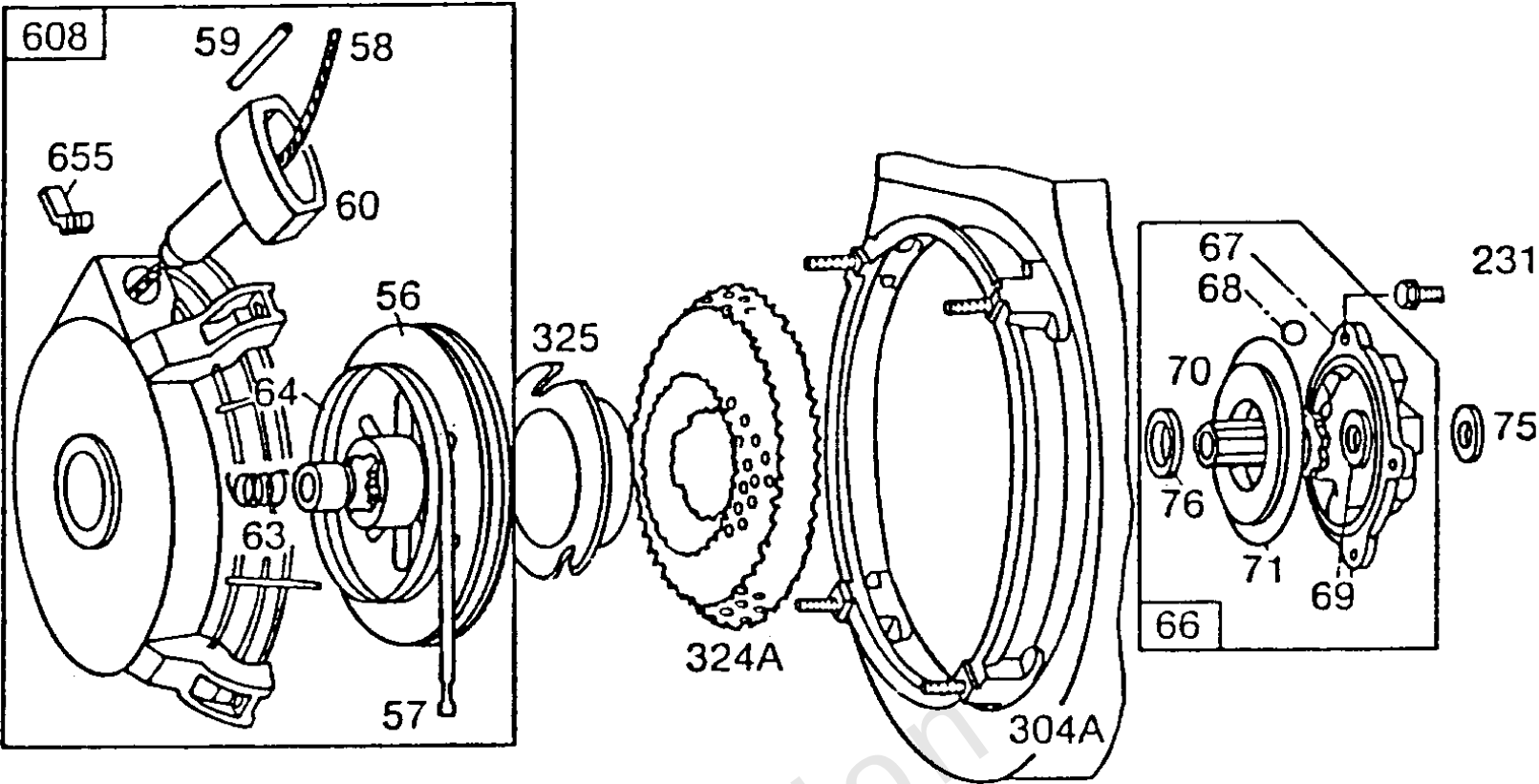
**Footnotes:**

AssocPart: 0000000291728

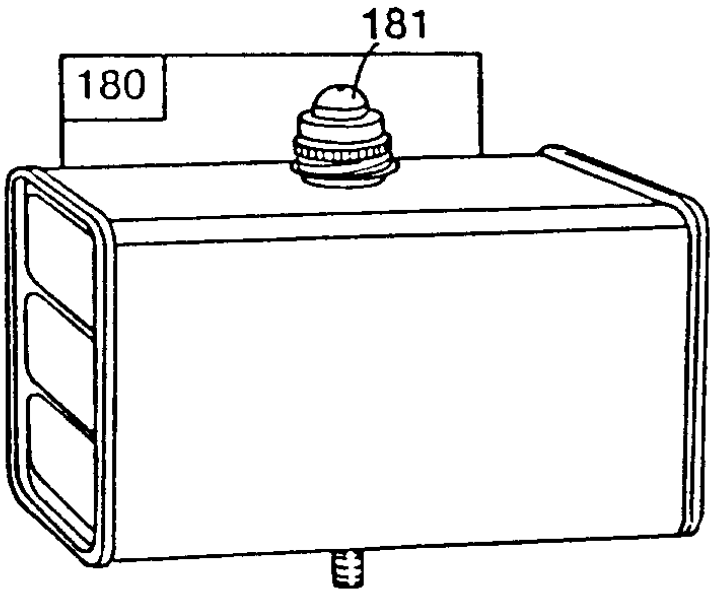
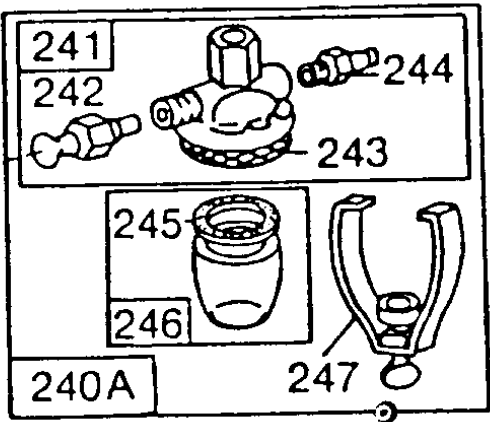
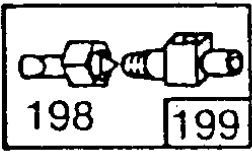
Replacement Engine - US & Canada

| REF NO | PART NO | QTY | DESCRIPTION                                                 |
|--------|---------|-----|-------------------------------------------------------------|
|        | -----   |     | No engine replacement. Repair engine with individual parts. |
|        | -----   |     | Top No-Load Speed: 3000<br>-Trim: ALL                       |

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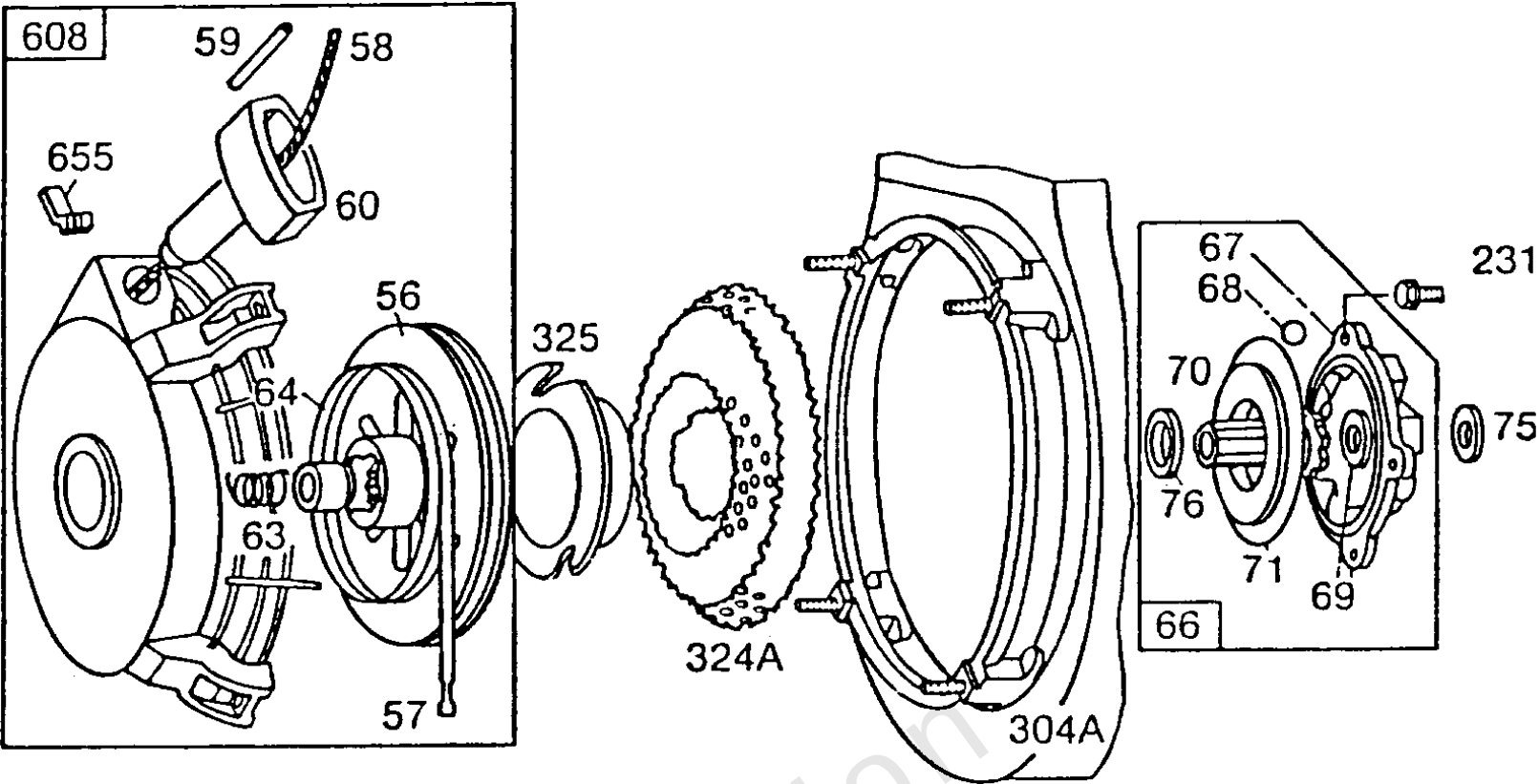


## Rewind Starter Assy,FuelTank

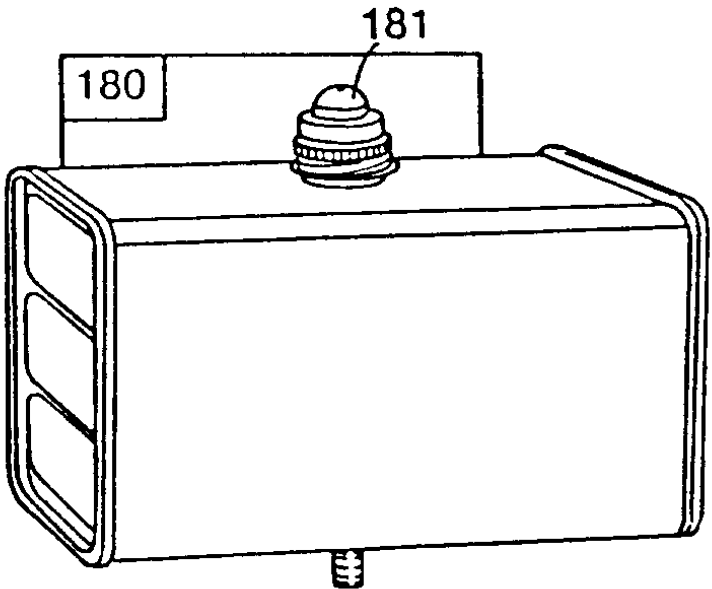
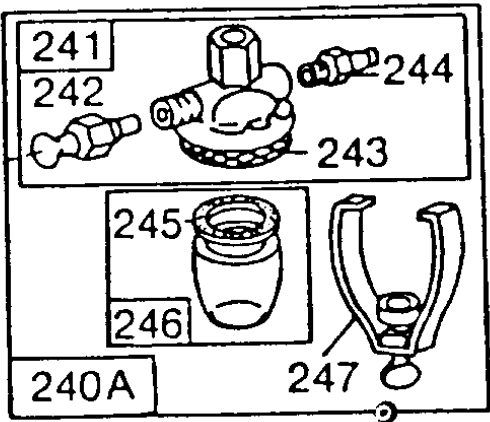
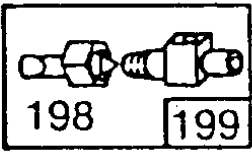
| REF NO | PART NO | QTY | DESCRIPTION                                                                                                    |
|--------|---------|-----|----------------------------------------------------------------------------------------------------------------|
| 56     | 392630  |     | PULLEY, Starter<br>-(63 Rope) If longer Rope is required, order Rope No. 66894 and cut to length.              |
| 57     | 490179  |     | SPRING-REWIND STR                                                                                              |
| 58     | 66884   |     | ROPE, Starter<br>-(Cut To Required Length) If longer Rope is required, order Rope No. 66894 and cut to length. |
| 59     | 230228  |     | PIN, Starter Grip                                                                                              |
| 60     | 66728   |     | GRIP, Starter Rope                                                                                             |
| 63     | 260414  |     | SPRING, Ratchet                                                                                                |
| 64     | 231118  |     | ADAPTER, Rewind Spring                                                                                         |
| 66     | 393127  |     | CLUTCH, Starter                                                                                                |
| 67     | 261455  |     | HOUSING, Rewind Starter                                                                                        |
| 68     | 63770   |     | BALL, Clutch                                                                                                   |
| 69     | 66718   |     | WASHER<br>-(1-1/16 O.D. X 17/32 I.D.) (1 1/16 O.D. X 17/32 I.D.)                                               |
| 70     | 298799  |     | RATCHET, Clutch<br>-(engine W/Ring Gear on FW equipped for Elec Start)                                         |
| 71     | 221653  |     | WASHER                                                                                                         |
| 75     | 222511  |     | WASHER<br>-(Spring)                                                                                            |
| 76     | 68238   |     | SEAL, Ratchet                                                                                                  |
| 120    | 92290   |     | WASHER                                                                                                         |
| 180    | 22813   |     | BRACKET, Fuel Tank<br>-(8 Quart) (Remote Mount Only)                                                           |
| 180    | 22907   |     | BRACKET, Fuel Tank<br>-(8 Quart) (Remote Mount Only)                                                           |
| 180    | 291488  |     | TANK, Fuel<br>-(6 Quart)                                                                                       |
| 180    | 291490  |     | STRAP, Fuel Tank<br>-(6 Quart) Includes: 91257 Screw-Machine Fill. Hd.                                         |
| 180    | 292415  |     | TANK, Fuel<br>-(8 Quart)                                                                                       |
| 180    | 393169  |     | STRAINER, Fuel                                                                                                 |
| 181    | 297866  |     | CAP, Fuel Tank<br>-(Metal)                                                                                     |
| 198    | 293934  |     | VALVE, Fuel Shut Off                                                                                           |
| 199    | 297563  |     | OUTLET, Tank                                                                                                   |
| 231    | 93064   |     | SCREW                                                                                                          |
| 240A   | 393169  |     | STRAINER, Fuel                                                                                                 |
| 241    | 296005  |     | COVER, Fuel Filter                                                                                             |
| 242    | 295913  |     | VALVE, Fuel Shut Off                                                                                           |
| 243    | 22547   |     | STRAINER, Fuel                                                                                                 |
| 244    | 230318  |     | CONNECTOR, Hose                                                                                                |
| 245    | 68477   |     | GASKET, Fuel Bowl<br>-Included in Gasket Set-Part No. 394501                                                   |
| 246    | 298683  |     | BOWL, Fuel Filter                                                                                              |
| 247    | 99665   |     | YOKE, Bowl                                                                                                     |
| 304A   | 393736  |     | HOUSING, Blower<br>-(Rewind Starter) (Low Profile)                                                             |
| 324A   | 223012  |     | SCREEN, Rotating<br>-Uses: 222997 Support-Pulley 231226 Spacer (Clutch)                                        |
| 325    | 222995  |     | PULLEY, Rope Starter                                                                                           |
| 373    | 90356   |     | NUT<br>-(10-24)                                                                                                |

### Footnotes:

AssocPart: 0000000291728



373 120



*Rewind Starter Assy,FuelTank*

| REF NO | PART NO | QTY | DESCRIPTION                                        |
|--------|---------|-----|----------------------------------------------------|
| 608    | 392677  |     | STARTER, Rewind<br>-(Low Profile)                  |
| 655    | 222598  |     | ANCHOR, Rewind Spring<br>-(Stamped Rewind Housing) |

Not For  
Reproduction

